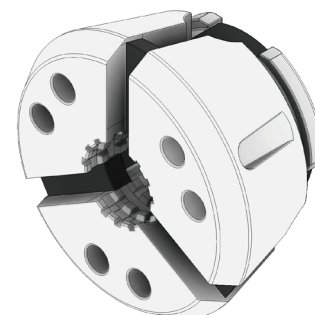


# TULEJE MOCUJĄCE DO AUTOMATÓW TOKARSKICH

CLAMPING COLLETS FOR LATHES  
SPANNZANGEN

ЦАНГИ ДЛЯ АВТОМАТОВ ОДНО- И  
МНОГОШПИНДЕЛЬНЫХ

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# TULEJE MOCUJĄCE - WPROWADZENIE

## CLAMPING COLLETS - INTRODUCTION

1

### Rodzaje tulei zaciskowych

Types collet

Typen Spannzange

Типы цанги

2

3

### DIN6343, TZn

Tuleje bez gwintu

Collets without thread

Spannzangen ohne Gewinde

Цанги без резьбы

4

5

6

7

### DIN6344, TZg, DIN6341

Tuleje z gwintem zewnętrznym

Sleeves with an external thread

Spannzangen mit einem Außengewinde

Рукава с наружной резьбой

8

9

10

11

### TZw

Tuleje z gwintem wewnętrznym

Sleeves with an internal thread

Spannzangen mit einem Innengewinde

Рукава с внутренней резьбой

12

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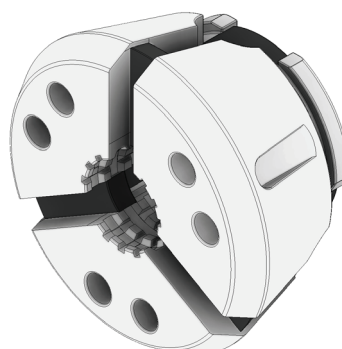
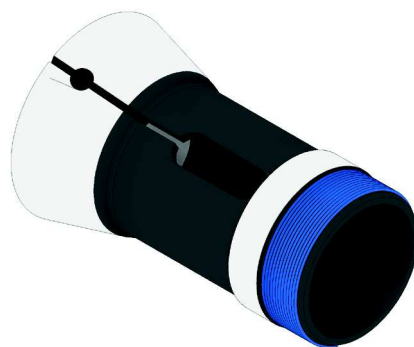
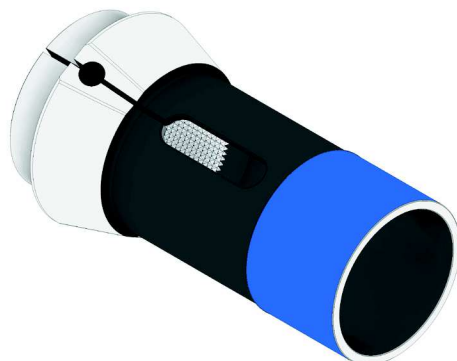
### BZI, CRAWFORD, JACOBS

Tuleje gumowo-stalowe

Rubber-metal Sleeves

Gummi-Metall-Sleeves

Резинометаллические рукава



# TULEJE MOCUJĄCE - WPROWADZENIE

## CLAMPING COLLETS - INTRODUCTION

### Dokładność wykonywanych tulei

Collet precision

Genauigkeit der Spannzangen

точность исполнения цанги

**Tabela niżej przedstawia dopuszczalne bicia trzpienia zamocowanego w tulei.**

The table below shows the collet run out tolerance.

Die unten angegebene Tabelle zeigt Ihnen die Erhöhterundlaufgenauigkeit.

Ниже в таблице представлены допустимые биения инструмента, закрепленного в цанге

| Średnica<br>Dimension | EG/E0/EL | S    | K    | L   |
|-----------------------|----------|------|------|-----|
| 3-6                   | 0,02     | 0,07 | 0,07 | 16  |
| 6-10                  | 0,02     | 0,08 | 0,08 | 25  |
| 10-18                 | 0,03     | 0,12 | 0,12 | 40  |
| 18-24                 | 0,03     | 0,15 | 0,15 | 50  |
| 24-30                 | 0,03     | 0,18 | 0,18 | 60  |
| 30-50                 | 0,04     | 0,22 | 0,22 | 80  |
| pow. 50               | 0,04     | 0,24 | 0,24 | 100 |



1

### Rodzaje otworów chwytowych dla tulei zaciskowych

Types of openings for gripping collet  
Arten von Öffnungen für die Spannzange  
Типы отверстий для захвата цанги

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R



### Otwór cylindryczny R

Otworki cylindryczne wykonujemy w standardzie od Fi 3. Mniejsze średnice na zapytanie.

### A cylindrical hole R

Cylindrical holes are made in the standard of fi 3. Smaller diameters on request.

### Ein zylindrisches Loch R

Zylindrische Löcher sind in der Norm von fi 3. Kleinere Durchmesser auf Anfrage gemacht.

### цилиндрическое отверстие R

Цилиндрические отверстия выполнены в стандарте ФИ 3. Меньшие диаметры по запросу.

S



### Profil sześciokąt S

Profile sześciokątne wykonujemy w standardzie z kanałkami poprzecznymi.

### Hexagone profile S

Hexagonal profiles are made in standard cross grooves.

### Sechskant S

6-kant - mit Querrillen

### Профиль шестигранный S

Шестигранные профили исполняются стандартно с поперечными пазом.

K



### Profil kwadrat K

Profile kwadratowe wykonujemy w standardzie z kanałkami poprzecznymi.

### Square profile K

Square profiles are made in standard cross grooves.

### Vierkant K

4-kant - Standard mit Querrillen

### Квадратный профиль K

Квадратные профили исполняются стандартно с поперечными пазом.

### Dowolny kształt

Przy wykorzystaniu technologii elektrodrążenia jesteśmy w stanie wykonać w tulei otworki zaciskowe o dowolnym kształcie.

### Any shape

Using EDM technology, we are able to make holes in the sleeve clamp of any shape.

### Jede Form

Dank unser Erodier Draht Maschine können wir Ihnen die Spannbohrung in beliebiger Form fertigen.

### Произвольная форма

При использовании технологии электросверления мы в состоянии выполнить в цанге зажимные отверстия любой формы.

# TULEJE MOCUJĄCE - WPROWADZENIE

## CLAMPING COLLETS - INTRODUCTION

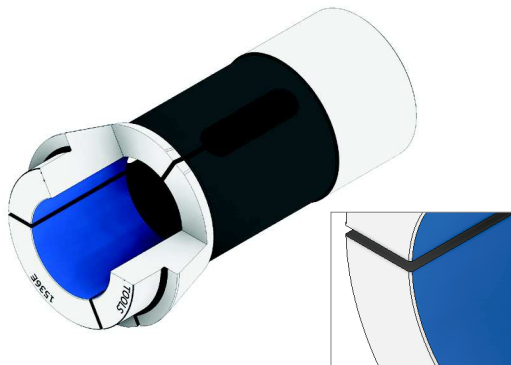
### Rodzaje powierzchni chwytowych dla tulei zaciskowych

Designs of holes and slots of collets

Ausführung von Bohrungen und Sägeschlitten an Spannzangen

Виды зажимной поверхности для цанг

EG



#### Gładka EG

Powierzchnia gładka w standardzie występuje w tulejach z zakresem mocowania od Fi 1 do Fi 8 mm. Większe średnice na zapytanie.

#### Plain EG

Smooth surface is standard in the bushes with a range of mounting Fi 1 to 8 mm. Larger diameters on request.

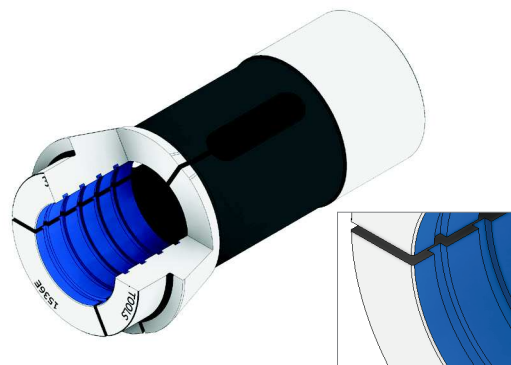
#### Glatt EG

rund: ab  $\varnothing$  1,0mm bis  $\varnothing$  8,0mm - glatt

#### Гладкая EG

Гладкая поверхность стандартно бывает у цанг с диаметрами зоны крепления от Fi 1 до Fi 8 мм. Большие диаметры - под заказ.

EO



#### Poprzeczna EO

Powierzchnia z kanałkami poprzecznymi w standardzie występuje w tulejach od średnicy Fi 8,5 mm do max średnicy mocowania.

#### Cross EO

Horizontal grooves surface of the standard is in the sleeves from 8.5 mm diameter to max diameter clamping.

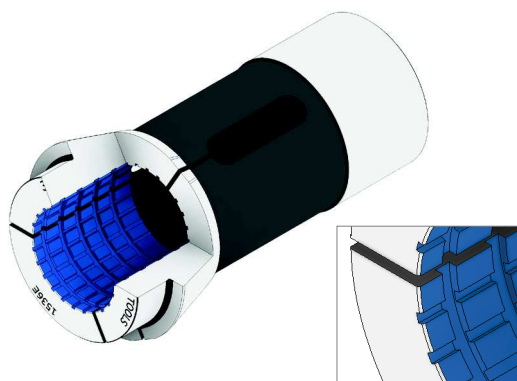
#### Quer EO

ab  $\varnothing$  8,5mm - Standard radial gerillt

#### Поперечная EO

Поверхность с поперечными пазом стандартно бывает у цанг с диаметром зоны крепления от Fi 8,5 мм до максимального.

EL



#### Poprzeczno-wzdłużna EL

Powierzchnia z kanałkami poprzeczno-wzdłużnymi występuje w tulejach od średnicy Fi 8,5 mm do max średnicy mocowania. Wersja na zapytanie.

#### Cross-longitudinal EL

Cross-longitudinal grooves surface is in the sleeves from 8.5 mm diameter to max diameter clamping. Version on request.

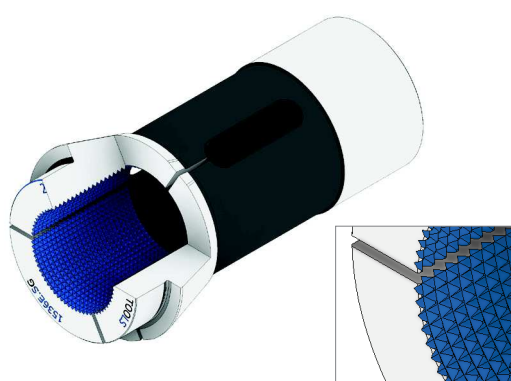
#### Langs u Querillen EL

ab  $\varnothing$  8,5mm - Standard mit Quer- und Längsrillen

#### Продольно-поперечная EL

Поверхность с продольно-поперечными пазом бывает у цанг с диаметром зоны крепления от Fi 8,5 мм до максимального. Вариант под заказ.

SG



#### Super Grip SG

Powierzchnia SUPERGRIP pozwala na chwyt o bardzo dużej sile mocowania bez możliwości przemieszczenia zamocowanego pręta

#### Super Grip SG

The area SUPERGRIP allows the grip of a very high clamping force without the possibility of displacement mounted rod

#### Super Grip SG

Das Gebiet SUPERGRIP ermöglicht es dem Griff einer sehr hohen Spannkraft ohne die Möglichkeit einer Verschiebung angebrachte Stange

#### Super Grip SG

Область Supergrip позволяет сцепление очень высокая прижимная сила без возможности перемещения стержня установлену цанг с диаметром зоны крепления от Fi 8,5 мм до максимального. Вариант под заказ.

# TULEJE MOCUJĄCE - WPROWADZENIE

## CLAMPING COLLETS - INTRODUCTION

1

### Modyfikacje tulei zaciskowych

Modifications collet  
Änderungen Spannzange  
Модификации цанги

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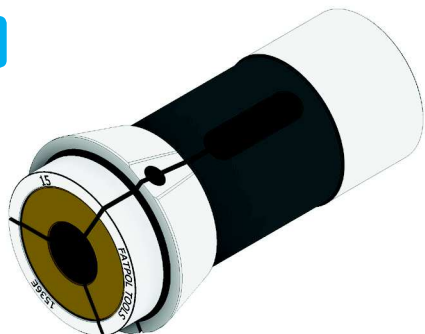
13

14

15

16

WK



### Wkładki / Szczęki WK

Wkładki mogą być wykonane z różnych materiałów, plastik, mosiądz itd.

### Inserts / Jaws WK

The inserts can be made of different materials, plastic, brass and so on.

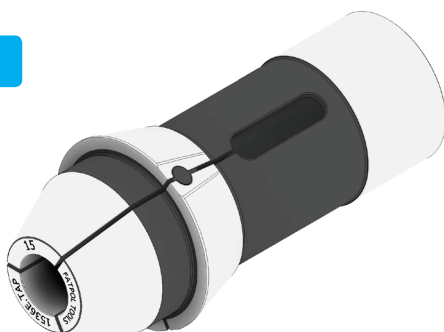
### Einsätze / Backen WK

Die Einsätze können aus unterschiedlichen Materialien, Kunststoff, Messing usw. hergestellt werden.

### Вставки / челюсти WK

Вставки могут быть изготовлены из различных материалов, пластика, латуни и так далее.

TAP



### Przedłużane - stożkowe TAP

Wykonujemy tuleje z przedłużanym otworem chwytowym

### Extended - conical TAP

We produce dead length collets with extended nose

### Erweitert - konisch TAP

Wir produzieren Buchsen verlängert Loch Grabbing

### Extended - коническая TAP

Мы производим втулки продлен отверстие захватывая

MM



### Przesunięcie mimośrodkowe MM

Wykonujemy również otwory z przesunięciem mimośrodkowym

### Moving the eccentric MM

We also openings offset eccentric

### Durch bewegen des exzentrischen MM

Wir haben auch Öffnungen versetzt exzentrisch

### Перемещение эксцентрика MM

Мы также отверстия эксцентриковый

LONG



### Przedłużane - cylindryczne LONG

Wykonujemy tuleje z przedłużanym otworem chwytowym

### Extended - cylindrical LONG

We produce dead length collets with extended nose

### Erweitert - zylindrisch LONG

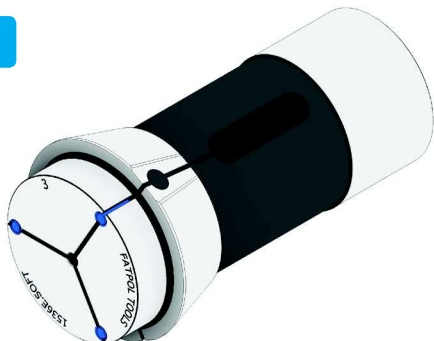
Wir produzieren Buchsen verlängert Loch Grabbing

### Расширенная - цилиндрическая LONG

Мы производим втулки продлен отверстие захватывая



SOFT



### Tuleje awaryjne / zapasowe **SOFT**

Wykonujemy tuleje awaryjne o nie utwardzonym otworze chwytowym.

### Sleeves emergency / backup **SOFT**

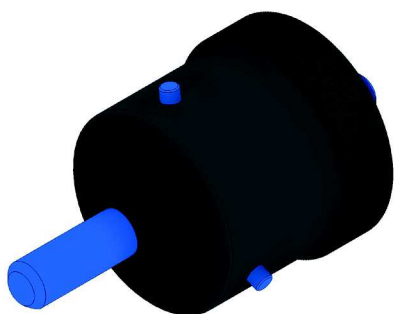
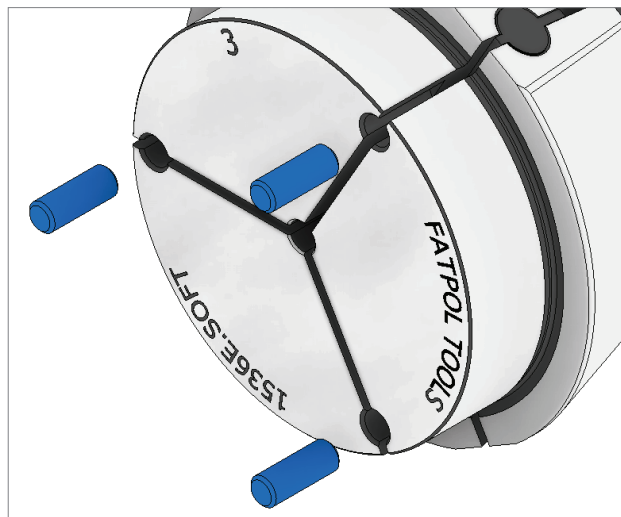
We produce bushings emergency with no paved the hole grabbing

### Sleeves Notfall / backup **SOFT**

Wir Buchsen Notfall ohne gepflastert das Loch greifen

### Рукава аварийного / резервного копирования **SOFT**

Мы с втулками аварийного не проложили отверстие, захватывая



### Zderzaki

Zderzaki służą do blokowania na ustalonej głębokości elementu obrabianego w tulei zaciskowej.

### Bumpers

Buffers are used to lock the fixed depth of the workpiece in the collet.

### Stoßstangen

Puffer werden verwendet, um die feste Tiefe des Werkstückes in Spannzange zu sperren.

### бамперы

Буферы используются для фиксации фиксированной глубины заготовки в коронка.



### Zasady posługiwania się systemem kodowym w przypadku tulei zaciskowych.

Kod danej tulei składa się z trzech członów:

**Typ tulei** | **Rodzaj otworu** | **Średnica otworu**

Wyjaśnienie poszczególnych członów:

**Typ tulei** - nazwa tulei wg. odpowiednich norm. Najczęściej pierwsza kolumna od lewej w tabelach w niniejszym katalogu

**Rodzaj otworu** - wykończenie powierzchni chwytowej tulei. Dzielimy na:

Otwór okrągły: EG - powierzchnia gładka, EO - kanałki poprzeczne, EL - kanałki poprzeczno-wzdłużne

Otwór profilowy: S - sześciokąt, K - kwadrat

**Średnica otworu** - Średnicę zapisujemy w formacie R0000. Np. Średnica 10mm = R1000, 6,5mm = R0650

Poszczególne człony łączymy w całość znakiem '.' (kropka)

Przykład: 173E.EO.R1000, TZn.0048.EO.R1000

### Rules for using the system code for collet.

The code of the sleeve is composed of three parts:

**Sleeve** | **Type Hole** | **Hole Diameter**

Explanation of parts:

**Sleeve** - the sleeve by name. relevant standards or the column "Code" in the tables in this

**Type of hole** - surface finish of the sleeve shank. Divided into:

Round hole: EG - smooth surface, EO - transverse groove, EL - groove radial-axial

Hole-profile: S - hexagon, K - square

**Hole Diameter** - Diameter save R0000 format. For example, Diameter 10mm = R1000, R0650 = 6.5 mm

Individual members join together on a whole character '.' (dot)

Example: 173E.EO.R1000, TZn.0048.EO.R1000



### Regeln für die Verwendung des System-Code für Spannzangen.

Der Code der Spannzangen besteht aus drei Teilen:

#### Spannzangen Typ | Lochart | Lochdurchmesser

Erklärung der Teile:

**Spannzangen Typ** - die Spannzangen mit Namen bzw. einschlägigen Normen und die Spalte "Code" in den Tabellen in diesem Katalog

**Art der Bohrung** - Oberfläche der Spannzangen Schaft aufgeteilt in:

Rundloch: EG - glatte Oberfläche, EO - Quernut, EL - Nut Radial-Axial-  
Loch-Profil: S - Sechseck, K - Quadrat (Vier - kant)

**Lochdurchmesser** - Durchmesser speichern R0000-Format. Zum Beispiel, Durchmesser 10mm = R1000, R0650 = 6,5 mm  
Einzelne Mitglieder miteinander zu verbinden auf eine ganze Charakter '.' (punkt)

Beispiel : 173E.EO.R1000, TZn.0048.EO.R1000

### Правила пользования системой кодов для цанг.

Код каждой цанги складывается из трех частей:

#### Тип цанги | Вид отверстия | Диаметр отверстия

Пояснения к каждой из частей:

**Тип цанги** - название цанги согласно соответствующим нормам. В настоящем каталоге это чаще всего первая колонка слева.

**Вид отверстия** - исполнение геометрии поверхности хвостовика цанги. Выделяем:

Круглое отверстие: EG - гладкая поверхность, EO - с поперечными канавками, EL - с продольно-поперечными канавками.  
Профильное отверстие: S - Шестиугольник, K - квадрат.

**Диаметр отверстия** - Диаметр записывается в формате R0000. Например, диаметр 10 мм = R1000, диаметр 6,5 мм = R0650.  
Отдельные части кода соединяются значком «.» (точка).

Примеры: 173E.EO.R1000, TZn.0048.EO.R1000

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

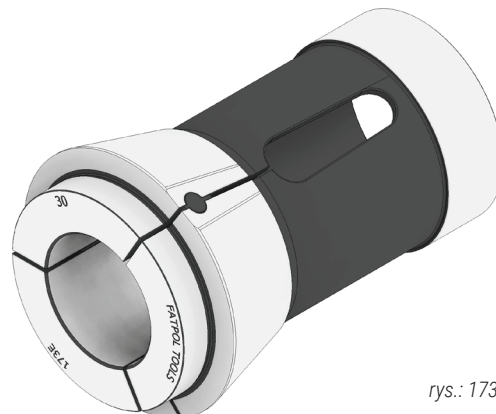
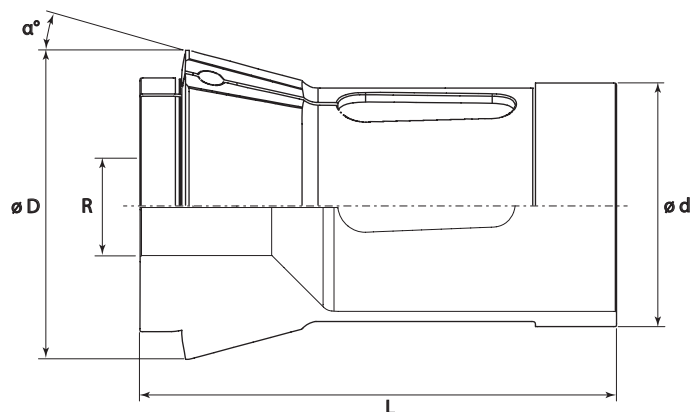
DIN 6343

### Tuleje zaciskowe DIN6343 do automatów jedno i wielowrzecionowych

DIN6343 Clamping collets for single and multi-spindle automatic machines

Druckspannzangen DIN6343

Цанги DIN6343 для автоматов одно- и многшпиндельных



rys.: 173E

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type       | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | R (EG)<br>Okrągły<br>Round<br>(mm) | R (EO)<br>Okrągły<br>Round<br>(mm) | R (EL)<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------------------|-------------|-------------|-----------|--------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------|
| 100E                                                   | 100E F6 76-599    | 6           | 10          | 30        | 15°                | 1 - 4,5                            | -                                  | -                                  | -                                  | -                              |
| 1010E                                                  | 1010E F7 76-576   | 7           | 11          | 41        | 15°                | 1 - 5                              | -                                  | -                                  | -                                  | -                              |
| 1020E                                                  | 1020E F7 76-66    | 7           | 10,7        | 26        | 15°                | 1 - 5,5                            | -                                  | -                                  | -                                  | -                              |
| 101E                                                   | 101E F8 76-577    | 8           | 12          | 42        | 16°                | 1 - 6,3                            | -                                  | -                                  | -                                  | -                              |
| 102E                                                   | 102E F8           | 8           | 13,7        | 30        | 21°                | 1 - 6                              | -                                  | -                                  | -                                  | -                              |
| 103E                                                   | 103E F8           | 8           | 14          | 35        | 15°                | 1 - 5                              | -                                  | -                                  | -                                  | -                              |
| 109E                                                   | 109E F10 76-86    | 10          | 15,5        | 47,5      | 20°                | 1 - 8                              | -                                  | -                                  | -                                  | -                              |
| 110E                                                   | 110E F10 76-720   | 10          | 16          | 43        | 15°                | 1 - 8                              | -                                  | -                                  | -                                  | -                              |
| 111E                                                   | 111E F10 76-1178  | 10          | 16          | 46        | 20°                | 1 - 8                              | -                                  | -                                  | -                                  | -                              |
| 112E                                                   | 112E F11          | 11          | 18,7        | 41        | 22°                | 1 - 8                              | -                                  | -                                  | -                                  | -                              |
| 113E                                                   | 113E F12          | 12          | 15,5        | 30,5      | 10°                | 1 - 10                             | -                                  | -                                  | -                                  | -                              |
| 114E                                                   | 114E F1276-578    | 12          | 18          | 64        | 16°                | 1 - 10                             | -                                  | -                                  | -                                  | -                              |
| 1155E                                                  | 1155E F1276-78    | 12          | 18,1        | 44,5      | 15°                | 1 - 10                             | -                                  | -                                  | -                                  | -                              |
| 116E                                                   | 116E F13 76-357   | 13          | 19          | 64        | 16°                | 1 - 10                             | 8,5 - 10                           | 8,5 - 10                           | 6 - 8                              | 4 - 6                          |
| 117E                                                   | 117E F14 76-98    | 14          | 18          | 46        | 13°                | 1 - 11                             | 8,5 - 11                           | 8,5 - 11                           | 6 - 9                              | 4 - 7                          |
| 118E                                                   | 118E F14          | 14          | 19,5        | 46        | 15°                | 1 - 10                             | 8,5 - 10                           | 8,5 - 10                           | 6 - 8                              | 4 - 6                          |
| 120E                                                   | 120E F15 76-580   | 15          | 21          | 64        | 16°                | 1 - 12                             | 8,5 - 12                           | 8,5 - 12                           | 6 - 10                             | 4 - 8                          |
| 121E                                                   | 121E F15 76-358   | 15          | 22          | 47        | 20°                | 1 - 11                             | 8,5 - 11                           | 8,5 - 11                           | 6 - 9                              | 4 - 7                          |
| 1212E                                                  | 1212E F16 76-1076 | 16          | 21          | 64        | 16°                | 1 - 13                             | 8,5 - 13                           | 8,5 - 13                           | 6 - 11                             | 4 - 9                          |
| 123E                                                   | 123E F16 76-104   | 16          | 22          | 55        | 15°                | 1 - 13                             | 8,5 - 13                           | 8,5 - 13                           | 6 - 11                             | 4 - 9                          |
| 125E                                                   | 125E F17,5        | 17,5        | 22          | 51        | 15°                | 1 - 14                             | 8,5 - 14                           | 8,5 - 14                           | 6 - 12                             | 4 - 9                          |
| 127E                                                   | 127E F18 76-85    | 18          | 25          | 67        | 15°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 128E                                                   | 128E F18 76-579   | 18          | 24          | 64        | 16°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 1299E                                                  | 1299E F20 76-02   | 20          | 27,5        | 60        | 16°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 136E                                                   | 136E F20 76-201   | 20          | 26          | 54        | 15°                | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           | 6 - 13                             | 4 - 11                         |
| 138E                                                   | 138E F20 76-87    | 20          | 28          | 67        | 16°                | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           | 6 - 13                             | 4 - 11                         |
| 139E                                                   | 139E F22 76-88    | 22          | 28          | 67        | 13°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 140E                                                   | 140E F22 76-71    | 22          | 30          | 55        | 15°                | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           | 6 - 13                             | 4 - 11                         |
| 142E                                                   | 142E F24          | 24          | 30          | 50        | 15°                | 3 - 17                             | 8,5 - 17                           | 8,5 - 17                           | 6 - 14                             | 4 - 12                         |
| 143E                                                   | 143E F25 76-581   | 25          | 31          | 54        | 15°                | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           | 6 - 17                             | 4 - 14                         |
| 144E                                                   | 144E F25 76-91    | 25          | 34          | 65        | 15°                | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           | 6 - 17                             | 4 - 14                         |
| 145E                                                   | 145E F25 76-64    | 25          | 35          | 77        | 16°                | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           | 6 - 17                             | 4 - 14                         |
| 146E                                                   | 146E F20 76-90    | 26          | 32          | 67        | 13°                | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           | 6 - 17                             | 4 - 14                         |
| 147E                                                   | 147E F27 76-22    | 27          | 38          | 72,7      | 15°                | 3 - 24                             | 8,5 - 24                           | 8,5 - 24                           | 6 - 19                             | 4 - 16                         |
| 148E                                                   | 148E F28 76-93    | 28          | 38          | 70        | 15°                | 3 - 23                             | 8,5 - 23                           | 8,5 - 23                           | 6 - 19                             | 4 - 16                         |

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

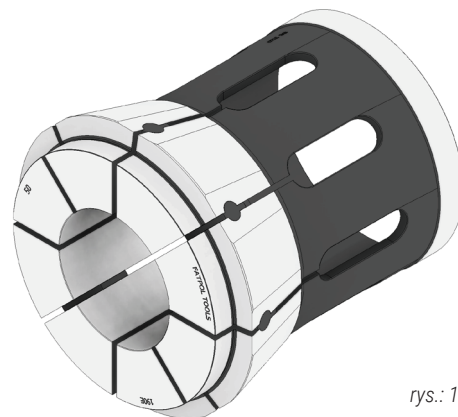
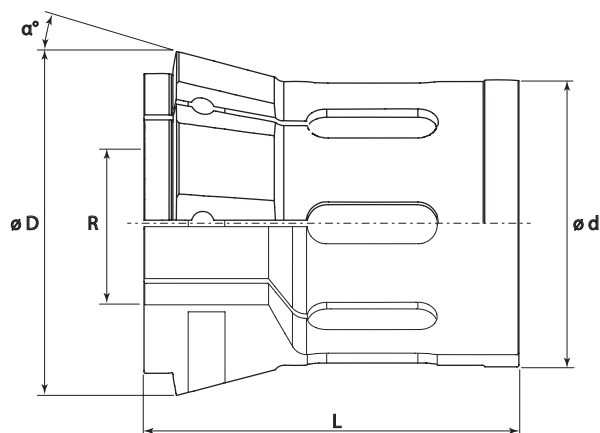
### Tuleje zaciskowe DIN6343 do automatów jedno i wielowrzecionowych

DIN6343 Clamping collets for single and multi-spindle automatic machines

Druckspannzangen DIN6343

Цанги DIN6343 для автоматов одно- и многшпиндельных

DIN 6343



rys.: 190E

#### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type     | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | R (EG)<br>Okrągły<br>Round<br>(mm) | R (EO)<br>Okrągły<br>Round<br>(mm) | R (EL)<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-----------------|-------------|-------------|-----------|--------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------|
| 156E                                                   | 156E F30        | 30          | 39,3        | 86,5      | 15°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 157E                                                   | 157E F30 76-63  | 30          | 42          | 80        | 16°                | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           | 6 - 22                             | 4 - 18                         |
| 1446E                                                  | 1446E F76-101   | 30          | 38          | 65        | 15°                | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           | 6 - 22                             | 4 - 18                         |
| 161E                                                   | 161E F32 76-221 | 32          | 45          | 75        | 15°                | 3 - 28                             | 8,5 - 28                           | 8,5 - 28                           | 6 - 24                             | 4 - 19                         |
| 1497E                                                  | 1497E F34 76-77 | 34          | 44          | 80        | 16°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 162E                                                   | 162E F35 76-67  | 35          | 43          | 70        | 15°                | 3 - 25                             | 8,5 - 25                           | 8,5 - 25                           | 6 - 21                             | 4 - 17                         |
| 163E                                                   | 163E F35 76-94  | 35          | 48          | 80        | 15°                | 3 - 30                             | 8,5 - 30                           | 8,5 - 30                           | 6 - 26                             | 4 - 21                         |
| 1536E                                                  | 1536E F76-740   | 37          | 47          | 92        | 16°                | 3 - 32                             | 8,5 - 32                           | 8,5 - 32                           | 6 - 27                             | 4 - 22                         |
| 164E                                                   | 164E F38 76-72  | 38          | 49          | 107,5     | 15°                | 3 - 33                             | 8,5 - 33                           | 8,5 - 33                           | 6 - 28                             | 4 - 23                         |
| 171E                                                   | 171E F42 76-99  | 42          | 55          | 94        | 15°                | 3 - 37                             | 8,5 - 37                           | 8,5 - 37                           | 6 - 32                             | 4 - 26                         |
| 173E                                                   | 173E F48 76-81  | 48          | 60          | 94        | 15°                | 3 - 42                             | 8,5 - 42                           | 8,5 - 42                           | 6 - 36                             | 4 - 29                         |
| 177E                                                   | 177E F58        | 58          | 70          | 94        | 15°                | 3 - 52                             | 8,5 - 52                           | 8,5 - 52                           | 6 - 45                             | 4 - 36                         |
| 185E                                                   | 185E F66 76-59  | 66          | 84          | 110       | 15°                | 3 - 60                             | 8,5 - 60                           | 8,5 - 60                           | 6 - 52                             | 4 - 42                         |
| 187E                                                   | 187E F72        | 72          | 90          | 142       | 15°                | 10 - 64                            | 10 - 64                            | 10 - 64                            | 20 - 55                            | 20 - 45                        |
| 188E                                                   | 188E F84        | 84          | 100         | 142       | 15°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 190E                                                   | 190E F88        | 88          | 106         | 115       | 15°                | 10 - 80                            | 10 - 80                            | 10 - 80                            | 20 - 69                            | 20 - 56                        |
| 193E                                                   | 193E F90        | 90          | 107         | 130       | 15°                | 10 - 80                            | 10 - 80                            | 10 - 80                            | 20 - 69                            | 20 - 56                        |
| 194E                                                   | 194E F95        | 95          | 116         | 200       | 15°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 195E                                                   | 195E F105       | 105         | 125         | 172       | 15°                | -                                  | -                                  | -                                  | -                                  | -                              |
| 196E                                                   | 196E F112       | 112         | 138         | 120       | 15°                | 24 - 100                           | 24 - 100                           | 24 - 100                           | 30 - 86                            | 30 - 70                        |

#### Akcesoria / Accessories / Zubehör / Аксессуары:



Zderzaki  
Bumpers  
Stoßstangen  
Бамперы

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Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

Strona / Page: 329

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

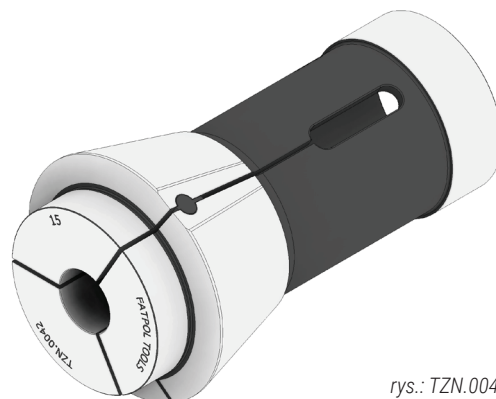
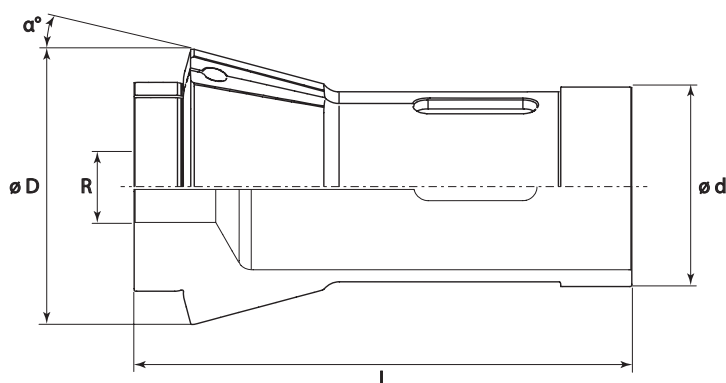
TZn

### Tuleje zaciskowe TZn

Clamping collets (Polish edition)

Spannzangen Fortsetzung

Цанги TZn для автоматов одно- и многошпиндельных



rys.: TZN.0042

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type | DIN6343<br>Odpowiednik<br>Equivalent | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | Skok<br>Pitch<br>(mm) | R (EG)<br>Okrągły<br>Round<br>(mm) | R (EO)<br>Okrągły<br>Round<br>(mm) | R (EL)<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------------|--------------------------------------|-------------|-------------|-----------|--------------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------|
| TZN.0008                                               | TZn-0008    | -                                    | 8           | 12          | 41        | 16°                | 0,5                   | 3 - 6                              | -                                  | -                                  | -                                  | -                              |
| TZN.0010                                               | TZn-0010    | -                                    | 10          | 16          | 46,5      | 20°                | 0,5                   | 3 - 7                              | -                                  | -                                  | -                                  | -                              |
| TZNA.0010                                              | TZna-0010   | -                                    | 10          | 15          | 50        | 10°                | 0,5                   | 3 - 7                              | -                                  | -                                  | -                                  | -                              |
| TZN.0012                                               | TZn-0012    | -                                    | 12          | 16,4        | 40        | 10°                | 0,5                   | 3 - 8                              | -                                  | -                                  | -                                  | -                              |
| TZN.0015                                               | TZn-0015    | 120E                                 | 15          | 21          | 64        | 16°                | 0,5                   | 1 - 12                             | 8,5 - 12                           | 8,5 - 12                           | 6 - 10                             | 4 - 8                          |
| TZNA.0015                                              | TZna-0015   | 121E                                 | 15          | 22          | 47        | 20°                | 0,5                   | 1 - 11                             | 8,5 - 11                           | 8,5 - 11                           | 6 - 9                              | 4 - 7                          |
| TZN.0016                                               | TZn-0016    | 123E                                 | 16          | 22          | 55        | 15°                | 0,5                   | 1 - 13                             | 8,5 - 13                           | 8,5 - 13                           | 6 - 11                             | 4 - 9                          |
| TZN.0020                                               | TZn-0020    | -                                    | 20          | 27,5        | 60        | 15°                | 0,5                   | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           | 6 - 13                             | 4 - 11                         |
| TZN.0022                                               | TZn-0022    | 140E                                 | 22          | 30          | 55        | 15°                | 0,5                   | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           | 6 - 13                             | 4 - 11                         |
| TZNA.0022                                              | TZna-0022   | -                                    | 22          | 32          | 66        | 16°                | 0,5                   | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           | 6 - 13                             | 4 - 11                         |
| TZN.0024                                               | TZn-0024    | -                                    | 24          | 31          | 50        | 15,5°              | 0,5                   | 3 - 17                             | 8,5 - 17                           | 8,5 - 17                           | 6 - 14                             | 4 - 12                         |
| TZNA.0025                                              | TZna-0025   | 143E                                 | 25          | 31          | 54        | 15°                | 0,5                   | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           | 6 - 17                             | 4 - 14                         |
| TZN.0025                                               | TZn-0025    | -                                    | 25          | 35          | 77        | 16°                | 0,5                   | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           | 6 - 17                             | 4 - 14                         |
| TZN.0028                                               | TZn-0028    | 148E                                 | 28          | 38          | 70        | 15°                | 0,5                   | 3 - 23                             | 8,5 - 23                           | 8,5 - 23                           | 6 - 19                             | 4 - 16                         |
| TZN.0032                                               | TZn-0032    | 161E                                 | 32          | 45          | 75        | 15°                | 0,5                   | 3 - 28                             | 8,5 - 28                           | 8,5 - 28                           | 6 - 24                             | 4 - 19                         |
| TZNB.0032                                              | TZnb-0032   | -                                    | 32          | 42          | 77        | 15°                | 0,5                   | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           | 6 - 22                             | 4 - 18                         |
| TZNA.0035                                              | TZna-0035   | 163E                                 | 35          | 48          | 80        | 15°                | 0,5                   | 3 - 30                             | 8,5 - 30                           | 8,5 - 30                           | 6 - 26                             | 4 - 21                         |
| TZNB.0035                                              | TZnb-0035   | 162E                                 | 35          | 43          | 70        | 15°                | 0,5                   | 3 - 25                             | 8,5 - 25                           | 8,5 - 25                           | 6 - 21                             | 4 - 17                         |
| TZN.0042                                               | TZn-0042    | -                                    | 42          | 58          | 105       | 15°                | 0,5                   | 3 - 32                             | 8,5 - 32                           | 8,5 - 32                           | 6 - 27                             | 4 - 22                         |
| TZN.0048                                               | TZn-0048    | 173E                                 | 48          | 60          | 94        | 15°                | 0,5                   | 3 - 42                             | 8,5 - 42                           | 8,5 - 42                           | 6 - 36                             | 4 - 29                         |
| TZNA.0052                                              | TZna-0052   | -                                    | 52          | 63          | 92        | 15°                | 1,0                   | 3 - 45                             | 8,5 - 45                           | 8,5 - 45                           | 6 - 39                             | 4 - 31                         |
| TZNC.0052                                              | TZnc-0052   | -                                    | 52          | 65          | 94        | 15°                | 1,0                   | 3 - 46                             | 8,5 - 46                           | 8,5 - 46                           | 6 - 39                             | 4 - 32                         |
| TZN.0066                                               | TZn-0066    | 185E                                 | 66          | 84          | 110       | 15°                | 1,0                   | 3 - 60                             | 8,5 - 60                           | 8,5 - 60                           | 6 - 52                             | 4 - 42                         |
| TZN.0072                                               | TZn-0072    | 187E                                 | 72          | 90          | 142       | 15°                | 2,0                   | 10 - 64                            | 10 - 64                            | 10 - 64                            | 20 - 55                            | 20 - 45                        |

### Akcesoria / Accessories / Zubehör / Аксессуары:



Zderzaki  
Bumpers  
Stoßstangen  
Бамперы

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Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

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# TULEJE MOCUJĄCE

## CLAMPING COLLETS

### Tuleje zaciskowe DIN6343 z wkładką z węgla spiekane

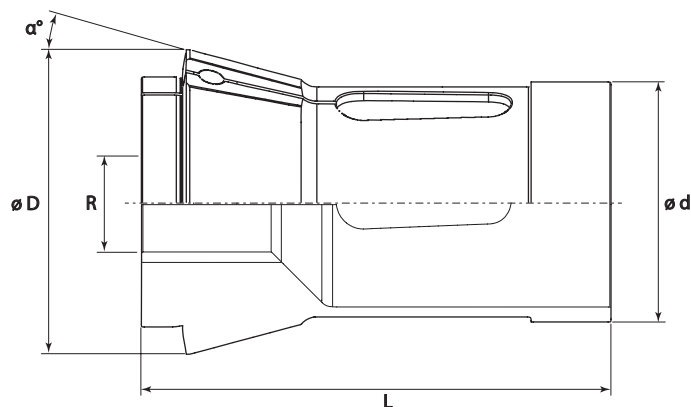
DIN6343 Clamping collets with hard metal insert

Spannzangen DIN6343 mit langem Hartmetalleinsatz

Цанги DIN6343 для автоматов одно- и многошпиндельных

DIN 6343

CARBIDE



rys.: 157E.CB

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | R (EG)<br>Okrągły<br>Round<br>(mm) |
|--------------------------------------------------------|-------------|-------------|-------------|-----------|--------------------|------------------------------------|
| 116E.CB                                                | 116E HM     | 13          | 19          | 63,5      | 10°                | 1 - 10                             |
| 117E.CB                                                | 117E HM     | 14          | 18          | 46        | 13°                | 1 - 11                             |
| 118E.CB                                                | 118E HM     | 14          | 19,5        | 46        | 15°                | 1 - 10                             |
| 120E.CB                                                | 120E HM     | 15          | 21          | 64        | 16°                | 1 - 12                             |
| 138E.CB                                                | 138E HM     | 20          | 28          | 67        | 16°                | 3 - 16                             |
| 145E.CB                                                | 145E HM     | 25          | 35          | 77        | 16°                | 3 - 20                             |
| 157E.CB                                                | 157E HM     | 30          | 42          | 80        | 16°                | 3 - 26                             |

### Akcesoria / Accessories / Zubehör / Аксессуары:



Zderzaki  
Bumpers  
Stoßstangen  
Бамперы

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Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

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# TULEJE MOCUJĄCE

## CLAMPING COLLETS

1

### Tuleje zaciskowe DIN6343 przedłużane cylindryczne LONG

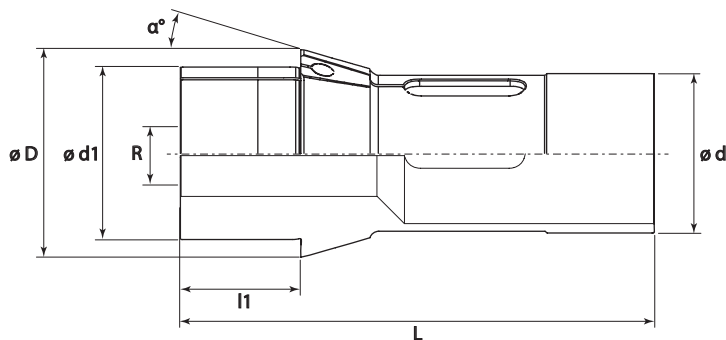
DIN6343 LONG extended nose collets

Schnabelspannzange DIN6343 Long

Цанги DIN6343 Long (удлиненные)

DIN 6343

LONG



rys.:1536E LONG

#### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type |              | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | l1<br>(mm) | ø d1<br>(mm) | Skok<br>Pitch<br>(mm) | R (EG)<br>Okrągły<br>Round<br>(mm) | R (EO)<br>Okrągły<br>Round<br>(mm) | R (EL)<br>Okrągły<br>Round<br>(mm) |
|--------------------------------------------------------|-------------|--------------|-------------|-------------|-----------|--------------------|------------|--------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|
| <b>116E.LONG</b>                                       | 116E LONG   | F13 76-53002 | 13          | 19          | 70        | 16°                | 12         | 13           | 1,0                   | 3 - 8                              | -                                  | -                                  |
| <b>136E.LONG</b>                                       | 136E LONG   | F20 76-53003 | 20          | 26          | 64        | 15°                | 15         | 19           | 1,0                   | 3 - 14                             | 8,5 - 14                           | 8,5 - 14                           |
| <b>145E.LONG</b>                                       | 145E LONG   | F25 76-53004 | 25          | 35          | 85        | 16°                | 18         | 27           | 1,0                   | 3 - 17                             | 8,5 - 17                           | 8,5 - 17                           |
| <b>1446E.LONG</b>                                      | 1446E LONG  | F27 76-53005 | 30          | 38          | 79        | 15°                | 20         | 32           | 1,0                   | 3 - 21                             | 8,5 - 21                           | 8,5 - 21                           |
| <b>1536E.LONG</b>                                      | 1536E LONG  | F37 76-53006 | 37          | 47          | 102       | 16°                | 20         | 40           | 1,0                   | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           |

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#### Akcesoria / Accessories / Zubehör / Аксессуары:



Zderzaki  
Bumpers  
Stoßstangen  
Бамперы

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Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

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# TULEJE MOCUJĄCE

## CLAMPING COLLETS

### Tuleje zaciskowe DIN6343 przedłużane stożkowe TAP

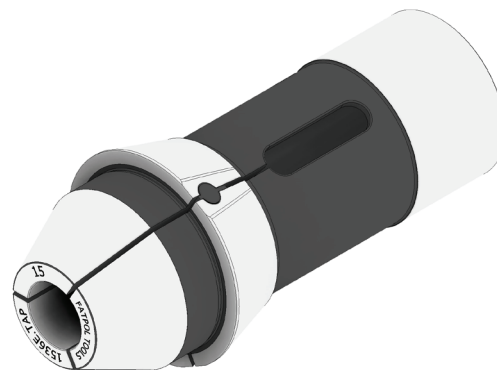
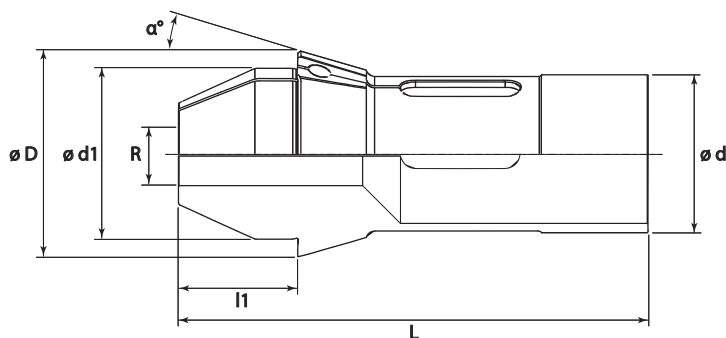
DIN6343 TAP extended nose collets

Schnabelspannzangen DIN6343 Tap

Цанги DIN6343 Tap (удлиненные конические)

DIN 6343

TAP



rys.:1536E TAP

#### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type |             | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | l1<br>(mm) | ø d1<br>(mm) | Skok<br>Pitch<br>(mm) | R (EG)<br>Okrągły<br>Round<br>(mm) | R (EO)<br>Okrągły<br>Round<br>(mm) | R (EL)<br>Okrągły<br>Round<br>(mm) |
|--------------------------------------------------------|-------------|-------------|-------------|-------------|-----------|--------------------|------------|--------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|
| 136E.TAP                                               | 136E TAP    | -           | 20          | 26          | 64        | 15°                | 15         | 19           | 1,0                   | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           |
| 138E.TAP                                               | 138E TAP    | F20 76-2027 | 20          | 28          | 80        | 16°                | 20         | 21           | 1,0                   | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           |
| 145E.TAP                                               | 145E TAP    | -           | 25          | 35          | 87        | 16°                | 20         | 27           | 1,0                   | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           |
| 1446E.TAP                                              | 1446E TAP   | -           | 30          | 38          | 79        | 15°                | 20         | 32           | 1,0                   | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           |
| 157E.TAP                                               | 157E TAP    | -           | 30          | 42          | 95        | 16°                | 25         | 34           | 1,0                   | 3 - 25                             | 8,5 - 25                           | 8,5 - 25                           |
| 161E.TAP                                               | 161E TAP    | -           | 32          | 45          | 89        | 15°                | 23         | 34           | 1,0                   | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           |
| 1536E.TAP                                              | 1536E TAP   | -           | 37          | 46          | 107       | 16°                | 25         | 40           | 1,0                   | 3 - 32                             | 8,5 - 32                           | 8,5 - 32                           |
| 164E.TAP                                               | 164E TAP    | -           | 38,1        | 49          | 129       | 15°                | 30         | 38           | 1,0                   | 3 - 32                             | 8,5 - 32                           | 8,5 - 32                           |
| 173E.TAP                                               | 173E TAP    | -           | 48          | 60          | 115       | 15°                | 30         | 50           | 1,0                   | 3 - 42                             | 8,5 - 42                           | 8,5 - 42                           |
| 185E.TAP                                               | 185E TAP    | -           | 66          | 84          | -         | 15°                | -          | -            | 1,0                   | 3 - 60                             | 8,5 - 60                           | 8,5 - 60                           |

#### Akcesoria / Accessories / Zubehör / Аксессуары:



Zderzaki  
Bumpers  
Stoßstangen  
Бамперы

Strona / Page: 329



Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

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# TULEJE MOCUJĄCE

## CLAMPING COLLETS

DIN 6343

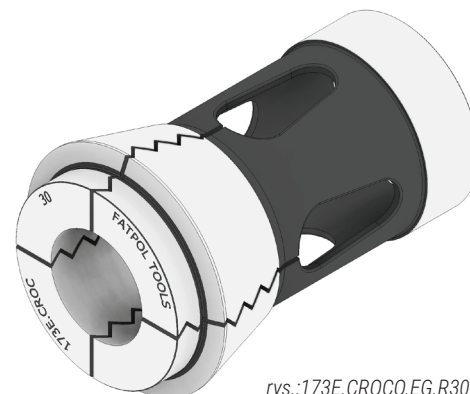
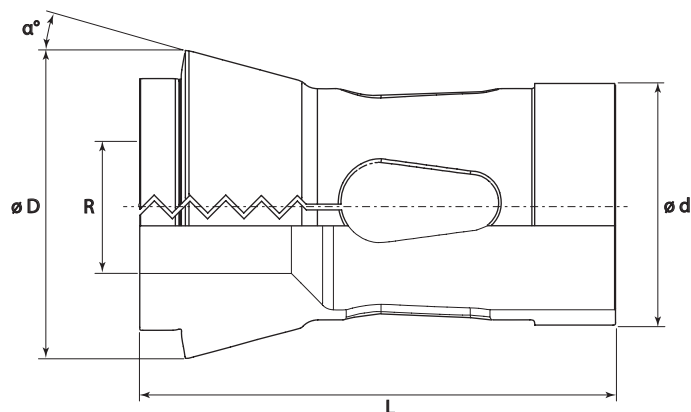
CROCO

### Tuleje zaciskowe DIN6343 typu CROCO

DIN6343 CROCO clamping collets

Schnabelspannzange DIN6343 CROCO

Цанги DIN6343 Long (удлиненные)



rys.:173E.CROCO.EG.R3000

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type     | Ø d<br>(mm) | Ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | R (EG)<br>Okrągły<br>Round<br>(mm) | R (EO)<br>Okrągły<br>Round<br>(mm) | R (EL)<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-----------------|-------------|-------------|-----------|--------------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------|
| 136E.CROCO                                             | 136E F20 76-201 | 20          | 26          | 54        | 15°                | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           | 6 - 13                             | 4 - 11                         |
| 140E.CROCO                                             | 140E F22 76-71  | 22          | 30          | 55        | 15°                | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           | 6 - 13                             | 4 - 11                         |
| 145E.CROCO                                             | 145E F25 76-64  | 25          | 35          | 77        | 16°                | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           | 6 - 17                             | 4 - 14                         |
| 147E.CROCO                                             | 147E F27 76-22  | 27          | 38          | 72,7      | 15°                | 3 - 24                             | 8,5 - 24                           | 8,5 - 24                           | 6 - 19                             | 4 - 16                         |
| 148E.CROCO                                             | 148E F28 76-93  | 28          | 38          | 70        | 15°                | 3 - 23                             | 8,5 - 23                           | 8,5 - 23                           | 6 - 19                             | 4 - 16                         |
| 157E.CROCO                                             | 157E F30 76-63  | 30          | 42          | 80        | 16°                | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           | 6 - 22                             | 4 - 18                         |
| 1446E.CROCO                                            | 1446E F76-101   | 30          | 38          | 65        | 15°                | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           | 6 - 22                             | 4 - 18                         |
| 161E.CROCO                                             | 161E F32 76-221 | 32          | 45          | 75        | 15°                | 3 - 28                             | 8,5 - 28                           | 8,5 - 28                           | 6 - 24                             | 4 - 19                         |
| 162E.CROCO                                             | 162E F35 76-67  | 35          | 43          | 70        | 15°                | 3 - 25                             | 8,5 - 25                           | 8,5 - 25                           | 6 - 21                             | 4 - 17                         |
| 163E.CROCO                                             | 163E F35 76-94  | 35          | 48          | 80        | 15°                | 3 - 30                             | 8,5 - 30                           | 8,5 - 30                           | 6 - 26                             | 4 - 21                         |
| 1536E.CROCO                                            | 1536E F76-740   | 37          | 47          | 92        | 16°                | 3 - 32                             | 8,5 - 32                           | 8,5 - 32                           | 6 - 27                             | 4 - 22                         |
| 164E.CROCO                                             | 164E F38 76-72  | 38          | 49          | 107,5     | 15°                | 3 - 33                             | 8,5 - 33                           | 8,5 - 33                           | 6 - 28                             | 4 - 23                         |
| 171E.CROCO                                             | 171E F42 76-99  | 42          | 55          | 94        | 15°                | 3 - 37                             | 8,5 - 37                           | 8,5 - 37                           | 6 - 32                             | 4 - 26                         |
| 173E.CROCO                                             | 173E F48 76-81  | 48          | 60          | 94        | 15°                | 3 - 42                             | 8,5 - 42                           | 8,5 - 42                           | 6 - 36                             | 4 - 29                         |

### Charakterystyka:

- Zakres mocowania do 0,2 mm w dół
- Równomiernie wysoka dokładność w całym zakresie zacisku
- Umożliwia mocowanie profili sześciokątnych, kwadratowych, gwintowanych
- Jednolita wysoka siła zacisku
- Zapobiega przenikaniu wiórow w otworze
- Wersja z otworem z węgla spiekanego na zapytanie

### Eigenschaften:

- Klemmbereich bis 0,2 mm nach unten
- Gleichmäßig hohe Präzision in der gesamten Spannbereich
- Ermöglicht Spannen von hex, quadratisch, Gewindeprofile,
- Uniform, hohe Kraft Griff
- Vermeidet das Eindringen von Spänen in die Bohrung - Carbide Bohrung auf Anfrage.

### Characteristic:

- Clamping range to 0.2 mm down
- Uniformly high precision throughout the clamping range
- Enables clamping of hex, square, threaded profiles,
- Uniform, high-force grip
- Avoids penetration of chips into the bore
- Carbide bore on request.

### Характеристика:

- Диапазон зажима до 0,2 мм вниз
- Равномерно высокая точность по всему диапазону зажима
- Позволяет зажимать шестигранных, квадратные, резьбовыми профили,
- Равномерное, высокая сила сцепления
- Исключает проникновение чипов в отверстие
- Карбид отверстие по запросу

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

### Tuleje zaciskowe DIN6343 przedłużane stożkowe TAP typu CROCO

DIN6343 TAP CROCO extended nose clamping collets

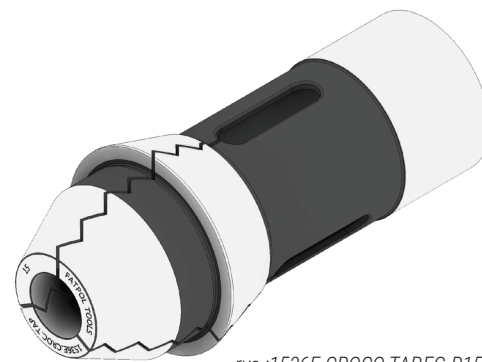
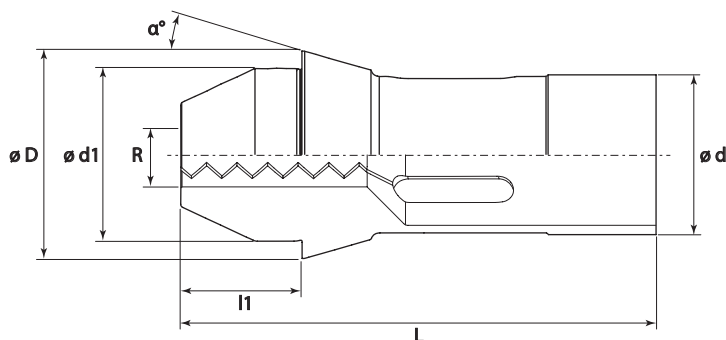
Schnabelspannzangen DIN6343 TAP CROCO

Цанги DIN6343 Тар (удлиненные конические)

DIN 6343

CROCO

TAP



rys.:1536E.CROCO.TAPEG.R1500

#### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type |             | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | l1<br>(mm) | ø d1<br>(mm) | Skok<br>Pitch<br>(mm) | R (EG)<br>Okrągły<br>Round<br>(mm) | R (EO)<br>Okrągły<br>Round<br>(mm) | R (EL)<br>Okrągły<br>Round<br>(mm) |
|--------------------------------------------------------|-------------|-------------|-------------|-------------|-----------|--------------------|------------|--------------|-----------------------|------------------------------------|------------------------------------|------------------------------------|
| 136E.CROCO.TAP                                         | 136E TAP    | -           | 20          | 26          | 64        | 15°                | 15         | 19           | 1,0                   | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           |
| 138E.CROCO.TAP                                         | 138E TAP    | F20 76-2027 | 20          | 28          | 80        | 16°                | 20         | 21           | 1,0                   | 3 - 16                             | 8,5 - 16                           | 8,5 - 16                           |
| 145E.CROCO.TAP                                         | 145E TAP    | -           | 25          | 35          | 87        | 16°                | 20         | 27           | 1,0                   | 3 - 20                             | 8,5 - 20                           | 8,5 - 20                           |
| 1446E.CROCO.TAP                                        | 1446E TAP   | -           | 30          | 38          | 79        | 15°                | 20         | 32           | 1,0                   | 3 - 26                             | 8,5 - 26                           | 8,5 - 26                           |
| 1536E.CROCO.TAP                                        | 1536E TAP   | -           | 37          | 46          | 107       | 16°                | 25         | 40           | 1,0                   | 3 - 32                             | 8,5 - 32                           | 8,5 - 32                           |

#### Charakterystyka:

- Zakres mocowania do 0,2 mm w dół
- Równomiernie wysoka dokładność w całym zakresie zacisku
- Umożliwia mocowanie profili sześciokątnych, kwadratowych, gwintowanych
- Jednolita wysoka siła zacisku
- Zapobiega przenikaniu wiórów w otworze
- Wersja z otworem z węgla spiekane na zapytanie

#### Eigenschaften:

- Klemmbereich bis 0,2 mm nach unten
- Gleichmäßig hohe Präzision in der gesamten Spannbereich
- Ermöglicht Spannen von hex, quadratisch, Gewindeprofile,
- Uniform, hohe Kraft Griff
- Vermeidet das Eindringen von Spänen in die Bohrung -
- Carbide Bohrung auf Anfrage.

#### Characteristic:

- Clamping range to 0.2 mm down
- Uniformly high precision throughout the clamping range
- Enables clamping of hex, square, threaded profiles,
- Uniform, high-force grip
- Avoids penetration of chips into the bore
- Carbide bore on request.

#### Характеристика:

- Диапазон зажима до 0,2 мм вниз
- Равномерно высокая точность по всему диапазону зажима
- Позволяет зажимать шестигранные, квадратные, резьбовыми профили,
- Равномерное, высокая сила сцепления
- Исключает проникновение чипов в отверстие
- Карбид отверстие по запросу

#### Akcesoria / Accessories / Zubehör / Аксессуары:



Zderzaki  
Bumpers  
Stoßstangen  
Бамперы

Strona / Page: 329

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

1

### Tuleje zaciskowe DIN6343 rezerwowe SOFT

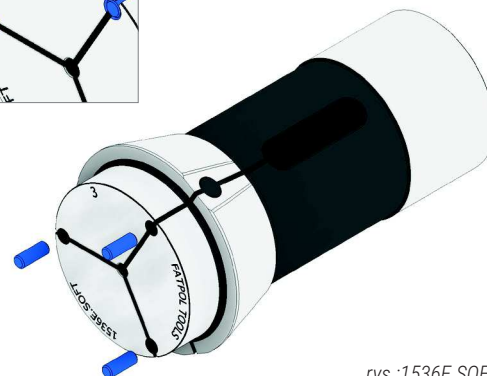
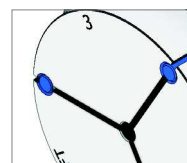
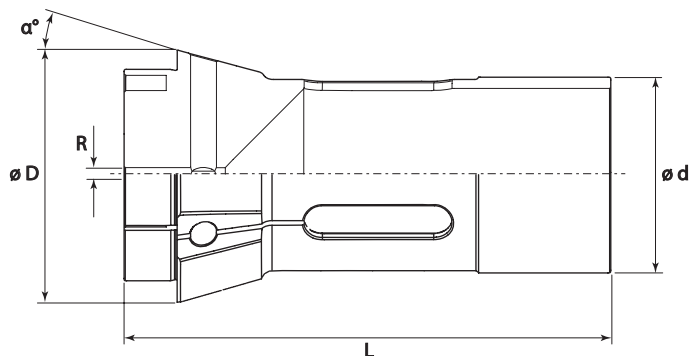
DIN6343 SOFT Emergency collets

Notfallspanzangen DIN6343

Цанги DIN6343 (мягкий)

DIN 6343

SOFT



rys.:1536E SOFT

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ tulei<br>Collet type |              | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | R (EG)<br>Okrągły<br>Round<br>(mm) |
|--------------------------------------------------------|--------------------------|--------------|-------------|-------------|-----------|--------------------|------------------------------------|
| 145E.SOFT                                              | 145E SOFT                | -            | 25          | 35          | 77        | 16°                | 3                                  |
| 161E.SOFT                                              | 161E SOFT                | F32 76-52639 | 32          | 45          | 75        | 15°                | 3                                  |
| 163E.SOFT                                              | 163E SOFT                | F35 76-52636 | 35          | 48          | 80        | 15°                | 3                                  |
| 164E.SOFT                                              | 164E.SOFT                | -            | 38          | 49          | 107,5     | 15°                | 3                                  |
| 173E.SOFT                                              | 173E SOFT                | F48 76-52579 | 48          | 60          | 94        | 15°                | 3                                  |
| 177E.SOFT                                              | 177E.SOFT                | -            | 58          | 70          | 94        | 15°                | 3                                  |
| 185E.SOFT                                              | 185E SOFT                | F66 76-53000 | 66          | 84          | 110       | 15°                | 4                                  |
| 193E.SOFT                                              | 193E SOFT                | -            | 90          | 107         | 130       | 15°                | 4                                  |

10

11

12

13

14

15

16

### Akcesoria / Accessories / Zubehör / Аксессуары:



Zderzaki  
Bumpers  
Stoßstangen  
Бамперы

Strona / Page: 329



Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

Strona / Page: 329

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

### Tuleje zaciskowe DIN6343 SUPER GRIP

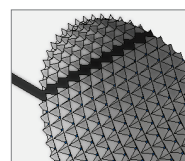
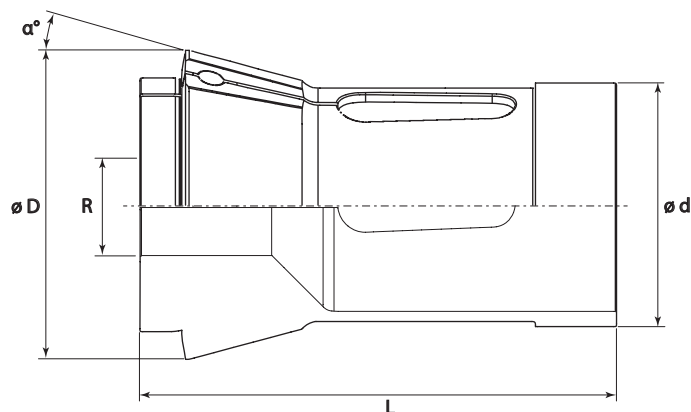
DIN6343 SUPER GRIP Clamping collets

Druckspannzangen DIN6343 SUPER GRIP

Цанги DIN6343 SUPER GRIP

DIN 6343

SUPER GRIP



rys.:1536E.SGRIP

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ tulei<br>Collet type | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | R (SG)<br>Okrągły<br>Round<br>(mm) |
|--------------------------------------------------------|--------------------------|-------------|-------------|-----------|--------------------|------------------------------------|
| 120E.SGRIP                                             | F15 76-580               | 15          | 21          | 64        | 16°                | 1 - 12                             |
| 140E.SGRIP                                             | F22 76-71                | 22          | 30          | 55        | 15°                | 3 - 16                             |
| 148E.SGRIP                                             | F28 76-93                | 28          | 38          | 70        | 15°                | 3 - 23                             |
| 161E.SGRIP                                             | F32 76-221               | 32          | 45          | 75        | 15°                | 3 - 28                             |
| 162E.SGRIP                                             | F35 76-67                | 35          | 43          | 70        | 15°                | 3 - 25                             |
| 163E.SGRIP                                             | F35 76-94                | 35          | 48          | 80        | 15°                | 3 - 30                             |
| 171E.SGRIP                                             | F42 76-99                | 42          | 55          | 94        | 15°                | 3 - 37                             |
| 173E.SGRIP                                             | F48 76-81                | 48          | 60          | 94        | 15°                | 3 - 42                             |
| 185E.SGRIP                                             | F66 76-59                | 66          | 84          | 110       | 15°                | 3 - 60                             |

### Akcesoria / Accessories / Zubehör / Аксессуары:



Zderzaki  
Bumpers  
Stoßstangen  
Бамперы

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Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

Strona / Page: 329

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

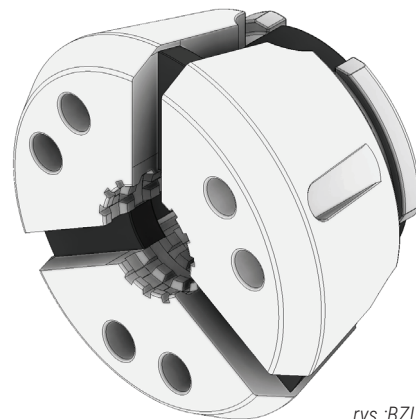
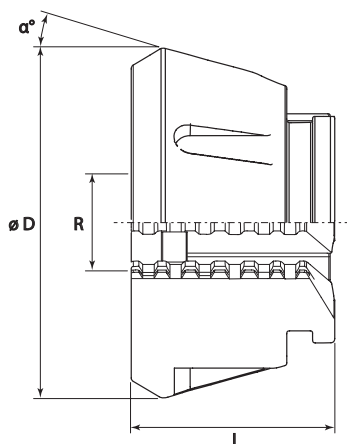
BZI

### Tuleje zaciskowe BZI

BZI Clamping Heads

BZI Spannköpfe Für Rauteilspannung

Цанги BZI



rys.:BZI.SK65

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Zastosowanie<br>Destination                                           | L<br>(mm) | ø D<br>(mm) | R (EG)<br>Okrągły<br>Round<br>(mm) | R (EO)<br>Okrągły<br>Round<br>(mm) | R (EL)<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-----------------------------------------------------------------------|-----------|-------------|------------------------------------|------------------------------------|------------------------------------|------------------------------------|--------------------------------|
| <b>BZI.SK32</b>                                        | Jednowrzecionowy / Single spindle                                     | 44        | 57,7        | 4 - 32                             | 8 - 32                             | 10 - 32                            | 7 - 27                             | 7 - 22                         |
| <b>BZI.SK42</b>                                        | Jednowrzecionowy / Single spindle                                     | 42        | 79,3        | 4 - 42                             | 8 - 42                             | 11 - 42                            | 7 - 38                             | 7 - 30                         |
| <b>BZI.SK42B</b>                                       | Jednowrzecionowy / Single spindle                                     | 47        | 79,3        | 4 - 42                             | 8 - 42                             | 11 - 42                            | 7 - 38                             | 7 - 30                         |
| <b>BZI.SK52</b>                                        | Jednowrzecionowy / Single spindle                                     | 46        | 79,3        | 4 - 52                             | 8 - 52                             | 11 - 52                            | 7 - 45                             | 7 - 36                         |
| <b>BZI.SK65</b>                                        | Jednowrzecionowy / Single spindle                                     | 53        | 99,5        | 4 - 65                             | 8 - 65                             | 11 - 65                            | 7 - 56                             | 8 - 46                         |
| <b>BZI.SK65B</b>                                       | Jednowrzecionowy / Single spindle                                     | 58        | 99,5        | 4 - 65                             | 8 - 65                             | 11 - 65                            | 7 - 56                             | 8 - 46                         |
| <b>BZI.SK80</b>                                        | Jednowrzecionowy / Single spindle                                     | 53        | 114,5       | 5 - 80                             | 8 - 80                             | 11 - 80                            | 7 - 68                             | 8 - 56                         |
| <b>BZI.SK100</b>                                       | Jednowrzecionowy / Single spindle                                     | 59        | 144,5       | 42 - 100                           | 42 - 100                           | 42 - 100                           | 50 - 86                            | 50 - 70                        |
| <b>BZI.SK22I</b>                                       | Wielowrzecionowy / Multi spindle<br>Index MS18                        | 36        | 44,3        | 4 - 22                             | 8 - 22                             | 11 - 22                            | -                                  | -                              |
| <b>BZI.9022</b>                                        | Wielowrzecionowy / Multi spindle<br>Index MS22                        | 37        | 44,3        | 4 - 22                             | 8 - 22                             | 11 - 22                            | -                                  | -                              |
| <b>BZI.9022B</b>                                       | Wielowrzecionowy / Multi spindle<br>Index MS22                        | 40        | 44,3        | 4 - 22                             | 8 - 22                             | 11 - 22                            | -                                  | -                              |
| <b>BZI.SK32I</b>                                       | Wielowrzecionowy / Multi spindle<br>Index MS32                        | 47,15     | 61          | 4 - 32                             | 8 - 32                             | 11 - 32                            | -                                  | -                              |
| <b>BZI.SK39S</b>                                       | Wielowrzecionowy / Multi spindle<br>Schütte AF26 SE25 / SE26 / SF26-S | 60,5      | 38          | 4 - 26                             | 8 - 26                             | 11 - 26                            | -                                  | -                              |
| <b>BZI.SK69B</b>                                       | Wielowrzecionowy / Multi spindle<br>Mori Say 6-26                     | 43        | 69,8        | 6 - 32                             | -                                  | -                                  | -                                  | -                              |

### Charakterystyka:

- Tuleje przeznaczone do dużych prędkości wrzeciona
- Duża siła zacisku
- Precyzja zacisku < 0,01mm
- Sprężystość i równoległość zacisku
- Szybka wymiana kluczem pneumatycznym lub mechanicznym

### Eigenschaften:

- Sleeves für Spindel High-Speed
- Hohe Spannkraft
- Präzisions-Terminal <0,01 mm
- Elastizität und Parallelität Klemme
- Schnellwechsel-Taste pneumatische oder mechanische

### Characteristic:

- Sleeves for high-speed spindle
- High clamping force
- Precision terminal <0.01mm
- Elasticity and parallelism terminal
- Quick change key pneumatic or mechanical

### Характеристики:

- Рукава для высокоскоростного шпинделя
- Высокая сила зажима
- Точность терминал <0.01 мм
- Эластичность и параллелизм терминал
- Пневматические клавиши быстрого изменения или механического

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

### Klucze mechaniczne do tulei BZI

Mechanical keys for BZI Clamping Heads  
 Mechanische Schlüssel Für BZI Spannköpfe  
 Механические ключи к втулке BИ



rys.: KEY.BZI.SK65

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Zastosowanie<br>Destination                      |
|--------------------------------------------------------|--------------------------------------------------|
| KEY.BZI.SK32                                           | Tuleje BZI SK32 / BZI Collets SK32               |
| KEY.BZI.SK42                                           | Tuleje BZI SK42, SK42L / BZI Collets SK42, SK42L |
| KEY.BZI.SK52                                           | Tuleje BZI SK52 / BZI Collets SK52               |
| KEY.BZI.SK65                                           | Tuleje BZI SK65, SK65L / BZI Collets SK65, SK65L |
| KEY.BZI.SK80                                           | Tuleje BZI SK80 / BZI Collets SK80               |
| KEY.BZI.SK100                                          | Tuleje BZI SK100 / BZI Collets SK100             |

### Pierścienie ustalające do tulei BZI

Retaining rings for BZI Clamping Heads  
 Halteringe an der Hülse BZI  
 Сохраняя кольца на втулку BZI



| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Zastosowanie<br>Destination                      |
|--------------------------------------------------------|--------------------------------------------------|
| RING.BZI.SK32                                          | Tuleje BZI SK32 / BZI Collets SK32               |
| RING.BZI.SK42                                          | Tuleje BZI SK42, SK42L / BZI Collets SK42, SK42L |
| RING.BZI.SK52                                          | Tuleje BZI SK52 / BZI Collets SK52               |
| RING.BZI.SK65                                          | Tuleje BZI SK65, SK65L / BZI Collets SK65, SK65L |
| RING.BZI.SK80                                          | Tuleje BZI SK80 / BZI Collets SK80               |
| RING.BZI.SK100                                         | Tuleje BZI SK100 / BZI Collets SK100             |



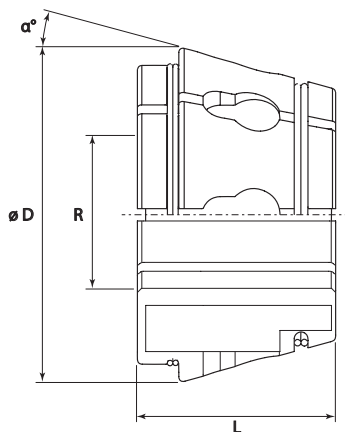
# TULEJE MOCUJĄCE

## CLAMPING COLLETS

### Tuleje zaciskowe Crawford

Crawford Clamping collets  
Crawford Spannköpfe  
Цанги Crawford

CRAWFORD



rys.: MT.175

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type | Ø D<br>(inch/mm) | L<br>(inch/mm) | α°<br>Kąt<br>Angle | R<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------------|------------------|----------------|--------------------|-------------------------------|------------------------------------|--------------------------------|
| MT980                                                  | T-980       | 1.99" / 50,6     | 1.66" / 42,2   | 14°                | A1* - A9                      | A1* - A8                           | A1* - A6                       |
| MT850                                                  | W-850       | 2.76" / 70,1     | 2.04" / 51,8   | 15°                | A1 - A14                      | A1 - A12                           | A1 - A10                       |
| MT120                                                  | V-120       | 3.46" / 88,0     | 2.47" / 62,7   | 15°                | A1 - A17                      | A1 - A16                           | A1 - A13                       |
| MT285                                                  | T-285       | 3.91" / 99,3     | 2.88" / 73,2   | 15°                | A1 - A25                      | A2 - A21                           | A2 - A14                       |
| MT175                                                  | N-175       | 4.72" / 120,0    | 3.15" / 80,0   | 15°                | A5 - A25                      | A5 - A21                           | A5 - A17                       |
| MT673                                                  | M673 / 173E | 61,5             | 39,0           | 14,75°             | 4 - 42                        | 4 - 36                             | 4 - 30                         |
| MT677                                                  | M677 / 185E | 85,5             | 45,0           | 14,75°             | 8 - 60                        | 8 - 52                             | 8 - 42                         |
| MT660                                                  | J660 / 193E | 108,5            | 48,0           | 14,75°             | 14 - 80                       | 14 - 68                            | 14 - 56                        |

| Symbol-* | Zakres mocowania<br>Clamping range<br>(inch/cale) | Zakres mocowania<br>Clamping range<br>(mm) | Pełne średnice<br>Diameters<br>(mm) |
|----------|---------------------------------------------------|--------------------------------------------|-------------------------------------|
| A1       | 1/16 - 3/16                                       | 1.58 - 4.76                                | 2 / 3 / 4                           |
| A2       | 1/8 - 1/4                                         | 3.17 - 6.35                                | 4 / 5 / 6                           |
| A3       | 1/4 - 3/8                                         | 6.35 - 9.52                                | 7 / 8 / 9                           |
| A4       | 3/8 - 1/2                                         | 9.52 - 12.70                               | 10 / 11 / 12                        |
| A5       | 1/2 - 5/8                                         | 12.70 - 15.87                              | 13 / 14 / 15                        |
| A6       | 5/8 - 3/4                                         | 15.87 - 19.05                              | 16 / 17 / 18 / 19                   |
| A7       | 3/4 - 7/8                                         | 19.05 - 22.22                              | 19 / 20 / 21 / 22                   |
| A8       | 7/8 - 1                                           | 22.22 - 25.40                              | 23 / 24 / 25                        |
| A9       | 1 - 1-1/8                                         | 25.40 - 28.57                              | 26 / 27 / 28                        |
| A10      | 1-1/8 - 1-1/4                                     | 28.57 - 31.75                              | 29 / 30 / 31                        |
| A11      | 1-1/4 - 1-3/8                                     | 31.75 - 34.92                              | 32 / 33 / 34                        |
| A12      | 1-3/8 - 1-1/2                                     | 34.92 - 38.10                              | 35 / 36 / 37 / 38                   |
| A13      | 1-1/2 - 1-5/8                                     | 38.10 - 41.27                              | 39 / 40 / 41                        |
| A14      | 1-5/8 - 1-3/4                                     | 41.27 - 44.45                              | 42 / 43 / 44                        |
| A15      | 1-3/4 - 1-7/8                                     | 44.45 - 47.62                              | 45 / 46 / 47                        |

| Symbol-* | Zakres mocowania<br>Clamping range<br>(inch/cale) | Zakres mocowania<br>Clamping range<br>(mm) | Pełne średnice<br>Diameters<br>(mm) |
|----------|---------------------------------------------------|--------------------------------------------|-------------------------------------|
| A16      | 1-7/8 - 2                                         | 47.62 - 50.80                              | 48 / 49 / 50                        |
| A17      | 2 - 2-1/8                                         | 50.80 - 53.97                              | 51 / 52 / 53 / 54                   |
| A18      | 2-1/8 - 2-1/4                                     | 53.97 - 57.15                              | 54 / 55 / 56 / 57                   |
| A19      | 2-1/4 - 2-3/8                                     | 57.15 - 60.32                              | 58 / 59 / 60                        |
| A20      | 2-3/8 - 2-1/2                                     | 60.32 - 63.50                              | 61 / 62 / 63                        |
| A21      | 2-1/2 - 2-5/8                                     | 63.50 - 66.67                              | 64 / 65 / 66                        |
| A22      | 2-5/8 - 2-3/4                                     | 66.67 - 69.85                              | 67 / 68 / 69                        |
| A23      | 2-3/4 - 2-7/8                                     | 69.85 - 73.02                              | 70 / 71 / 72 / 73                   |
| A24      | 2-7/8 - 3                                         | 73.02 - 76.20                              | 73 / 74 / 75 / 76                   |
| A25      | 3 - 3-1/8                                         | 76.20 - 79.37                              | 77 / 78 / 79                        |

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

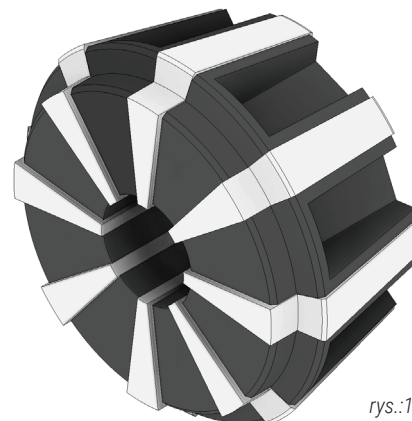
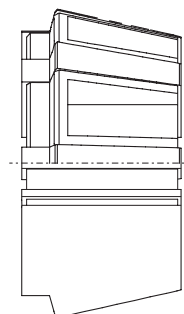
### Tuleje zaciskowe JACOBS-a

JACOBS clamping collets

JACOBS Rubber-Flex spannzangen

Цанги JACOBS

JACOBS



rys.:173J

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Zamiennik<br>Substitute | Ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | R (EG)<br>Okrągły<br>Round<br>(mm) | Tolerancja mocowania<br>Tolerance fixing |
|--------------------------------------------------------|-------------------------|-------------|-----------|--------------------|------------------------------------|------------------------------------------|
| 140J                                                   | 140E                    | 31,4        | 22        | 14°45'             | 3 - 16                             | +0,3 / -1,3                              |
| 148J                                                   | 148E                    | 40,4        | 27        | 14°45'             | 4 - 20                             | +0,3 / -2,3                              |
| 161J                                                   | 161E                    | 47,4        | 31        | 14°45'             | 4 - 26                             | +0,3 / -2,3                              |
| 163J                                                   | 163E                    | 50,4        | 44        | 14°45'             | 6 - 30                             | +0,3 / -2,3                              |
| 173J                                                   | 173E                    | 62,4        | 47        | 14°45'             | 7 - 43                             | +0,3 / -2,3                              |
| 185J                                                   | 185E                    | 86,4        | 59        | 14°45'             | 19 - 61                            | +0,3 / -2,3                              |

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

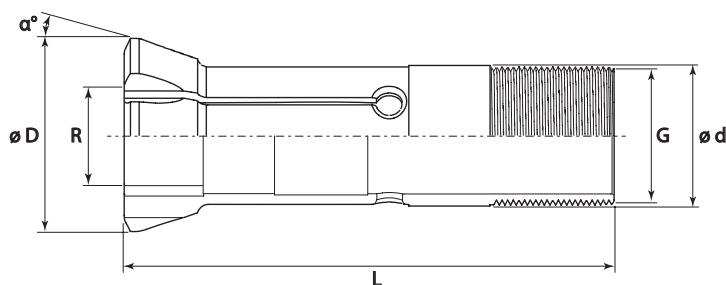
HARD METAL

### Tuleje zaciskowe w wkładem z węgla spiekane

Adjustable guide bushes with hard metal insert

Qualitäts-Führungsbüchsen mit langem Hartmetalleinsatz

Цанги с твердосплавной вставкой



rys.: T229

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара |       | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | G<br>Gwint<br>Thread | α°<br>Kąt<br>Angle | R (EG)<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------|-------------|-------------|-----------|----------------------|--------------------|------------------------------------|------------------------------------|--------------------------------|
| F351                                                   | J3    | 9           | 13          | 50        | M8 x 0,6             | 30°                | 0,7 - 5,5                          | -                                  | -                              |
| I351                                                   | -     | 9           | 12,5        | 44        | M8 x 0,75            | 16°                | 0,7 - 6                            | -                                  | -                              |
| F352                                                   | -     | 11          | 15          | 50        | M10 x 0,6            | 30°                | 1 - 7,5                            | -                                  | -                              |
| I352                                                   | -     | 11          | 14,5        | 53        | M10 x 0,8            | 16°                | 1 - 7,5                            | -                                  | -                              |
| F3001                                                  | -     | 11          | 14,5        | 53        | M10 x 0,75           | 16°                | 1 - 7                              | -                                  | -                              |
| F103                                                   | B211  | 12          | 16          | 50        | M12 x 1              | 30°                | 1 - 7,5                            | -                                  | -                              |
| T340                                                   | -     | 13          | 16          | 41,5      | M12,5 x 0,75         | 15°                | 1 - 8                              | -                                  | -                              |
| T330                                                   | -     | 14          | 18          | 63        | M13 x 0,75           | 16°                | 2 - 9                              | -                                  | -                              |
| I353                                                   | J6    | 16          | 19,5        | 59        | M14 x 1              | 16°                | 1 - 12                             | 3 - 10                             | 3 - 6                          |
| F850                                                   | -     | 16          | 20          | 52        | M16 x 1              | 30°                | 1 - 12                             | -                                  | -                              |
| F853                                                   | B212A | 18          | 22          | 61        | M16 x 1              | 30°                | 1 - 13                             | 4 - 13                             | 3 - 8                          |
| F104                                                   | B208  | 20          | 24          | 55        | M20 x 1              | 30°                | 2 - 13                             | -                                  | -                              |
| T221                                                   | B301  | 21          | 24          | 57,5      | M18 x 1              | 12°                | 3 - 15                             | 4 - 12                             | 3 - 8                          |
| I354                                                   | J7A   | 22          | 29          | 68        | M19 x 1              | 16°                | 2 - 16                             | 4 - 13                             | 3 - 10                         |
| F391                                                   | J7AR  | 22          | 29          | 68        | M22 x 1              | 16°                | 3 - 18                             | 4 - 14                             | 3 - 12                         |
| F605                                                   | B238  | 24          | 29,5        | 61        | M24 x 1              | 30°                | 2 - 17                             | 4 - 15                             | 3 - 12                         |
| TD26                                                   | TD26  | 26          | 29          | 77        | M25 x 1              | 16°                | 2 - 20                             | 4 - 16                             | 3 - 13                         |
| T223                                                   | B261  | 28          | 34          | 82        | M25 x 1              | 16°                | 2 - 20                             | 3 - 17                             | 3 - 14                         |
| I357                                                   | B250  | 28          | 38          | 81        | M25 x 1              | 30°                | 3 - 21                             | 4 - 17                             | 3 - 14                         |
| F355                                                   | B214  | 32          | 39          | 71        | M32 x 1              | 30°                | 3 - 22                             | -                                  | -                              |
| T227                                                   | B227  | 34          | 41          | 87,5      | M34 x 1              | 10°                | 3 - 25                             | 4 - 22                             | 3 - 15                         |
| F854                                                   | B207A | 40          | 48          | 81        | M36 x 1              | 30°                | 3 - 26                             | -                                  | -                              |
| F105                                                   | B207  | 40          | 48          | 81        | M40 x 1              | 30°                | 3 - 26                             | -                                  | -                              |
| T229                                                   | J9    | 42          | 49          | 82        | M40 x 1              | 16°                | 3 - 32                             | 4 - 27                             | 3 - 25                         |
| ML36                                                   | ML36  | 44          | 51          | 82        | M42 x 1              | 16°                | 4 - 35                             | -                                  | -                              |
| ST38                                                   | ST38  | 48          | 54          | 82        | M46 x 1              | 16°                | 4 - 38                             | -                                  | -                              |

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

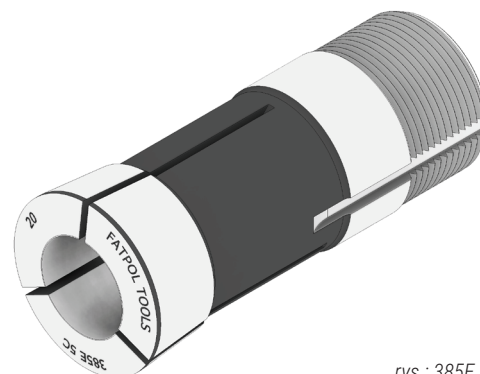
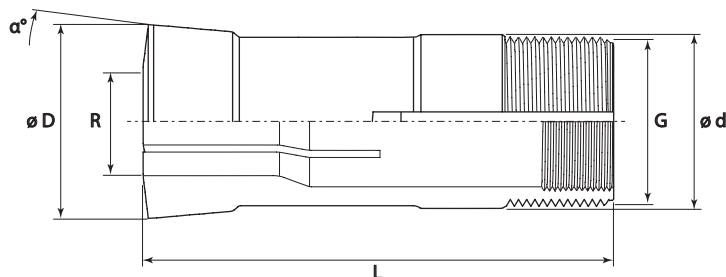
### Tuleje zaciskowe z gwintem zewnętrznym DIN6341

Clamping collets with thread external DIN6341

Zugspannzangen

Цанги DIN6341 с наружной резьбой для автоматов одно- и многошпиндельных

DIN 6341



rys.: 385E 5C

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | G<br>Gwint<br>Thread                   | α°<br>Kąt<br>Angle | R (EG)<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------------|-------------|-----------|----------------------------------------|--------------------|------------------------------------|------------------------------------|--------------------------------|
| 302E                                                   | 8           | 12,7        | 35        | W 6,85 x 40 Gg                         | 20°                | 1,5 - 6,0                          | -                                  | -                              |
| 318E                                                   | 12          | 16          | 45,6      | S 11,75 x 1,25                         | 15°                | 1,5 - 10,0                         | -                                  | -                              |
| 319E                                                   | 12          | 18          | 62,2      | Tr. 12 x 1                             | 20°                | 1,5 - 10,0                         | -                                  | -                              |
| 324E                                                   | 15          | 21,5        | 53        | M13 x 1                                | 20°                | 1,5 - 13,0                         | 6,0 - 8,0                          | 4,0 - 6,0                      |
| 349E                                                   | 20          | 26,3        | 73        | S 19,7 x 1,666                         | 15°                | 1,5 - 19,0                         | 6,0 - 12,0                         | 4,0 - 10,0                     |
| 351E                                                   | 20          | 28          | 83        | Tr.20 x 1,5                            | 20°                | 1,5 - 17,5                         | 6,0 - 13,0                         | 4,0 - 10,0                     |
| 355E                                                   | 20          | 28          | 123       | S19,7 x 2                              | 17,5°              | 1,5 - 18,0                         | -                                  | -                              |
| 358E                                                   | 23          | 32          | 82        | M21 x 1                                | 20°                | 1,5 - 20,0                         | 6,0 - 14,0                         | 4,0 - 12,0                     |
| 359E                                                   | 23          | 32          | 90        | Tr.23 x 1,5                            | 20°                | 1,5 - 20,0                         | 6,0 - 14,0                         | 4,0 - 12,0                     |
| 360E                                                   | 23          | 34          | 97        | 23x 20 Gg                              | 20°                | 3,0 - 20,0                         | -                                  | -                              |
| 362E                                                   | 25          | 34          | 89        | M21,2 x 1                              | 15°                | 1,5 - 22,0                         | -                                  | -                              |
| 363E                                                   | 25          | 33,5        | 84        | M23 x 1                                | 16°                | 1,5 - 22,0                         | 6,0 - 15,0                         | 4,0 - 12,0                     |
| 364E                                                   | 25          | 33,7        | 97,6      | S25 x 1/15"                            | 15°                | 1,5 - 22,0                         | 6,0 - 12,0                         | 4,0 - 10,0                     |
| 366E                                                   | 28          | 36          | 102       | Tr.27 x 1/20"                          | 18°                | 1,5 - 23,0                         | 6,0 - 18,0                         | 4,0 - 15,0                     |
| 367E                                                   | 28          | 38          | 100       | Tr.28 x 1,5                            | 20°                | 1,5 - 24,0                         | 6,0 - 19,0                         | 4,0 - 16,0                     |
| 385E                                                   | 31,75       | 37,5        | 83        | zew 31,45 x 1/20"<br>wew 26,44 x 1,058 | 10°                | 1,5 - 26,0                         | 6,0 - 22,0                         | 4,0 - 18,0                     |
| 3713E                                                  | 32          | 40          | 106       | 29,7 x 15f"                            | 15°                | 1,5 - 30,0                         | 6,0 - 20,0                         | 4,0 - 16,0                     |
| 386E                                                   | 32          | 45          | 110       | Tr.32 x 1,5                            | 20°                | 1,5 - 29,0                         | 6,0 - 23,0                         | 4,0 - 19,0                     |
| 387E                                                   | 34          | 43          | 111       | Tr.34 x 20 Gg                          | 20°                | 3,0 - 30,0                         | -                                  | -                              |
| 389E                                                   | 45          | 60          | 146       | Tr.45 x 2                              | 20°                | 5,0 - 40,0                         | 6,0 - 32,0                         | 4,0 - 26,0                     |
| 390E                                                   | 47          | 60          | 115       | Tr.47 x 1,5                            | 20°                | 5,0 - 42,0                         | -                                  | -                              |

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

1

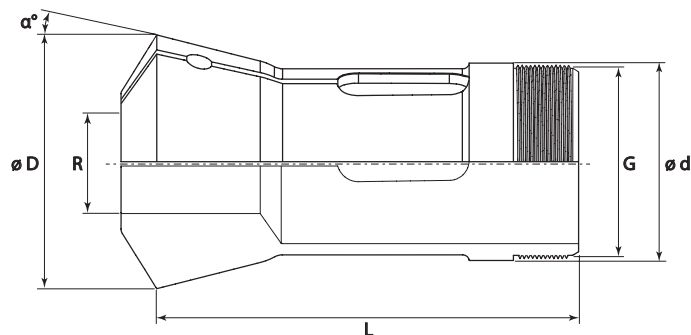
### Tuleje zaciskowe z gwintem zewnętrznym TZg

Clamping collets with thread external TZg

Spannzangen mit Innengewinde

Цанги TZg с наружной резьбой для автоматов одно- и многошпиндельных

TZg



rys.:TZG.0045

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Ø d<br>(mm) | Ø D<br>(mm) | L<br>(mm) | G<br>Gwint<br>Thread | α°<br>Kąt<br>Angle | EG/EO/EL<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------------|-------------|-----------|----------------------|--------------------|--------------------------------------|------------------------------------|--------------------------------|
| TZG.0010                                               | 10          | 14          | 74        | M9                   | 20°                | 3 - 5,5                              | -                                  | -                              |
| TZGA.0010                                              | 10          | 14          | 74        | M9                   | 14,65°             | 3 - 5,5                              | -                                  | -                              |
| TZGB.0010                                              | 10          | 15          | 52        | M10 x 1              | 20°                | 3 - 5                                | -                                  | -                              |
| TZG.0015                                               | 15          | 23          | 67        | M14 x 1              | 20°                | 3 - 10,5                             | -                                  | -                              |
| TZG.0022                                               | 22          | 36          | 105       | M20 x 1,5            | 15°                | 3 - 15                               | 6 - 13                             | 4 - 10                         |
| TZG.0023                                               | 23          | 34          | 96,5      | M22 x 1              | 20°                | 3 - 17                               | 6 - 14                             | 4 - 12                         |
| TZG.0030                                               | 30          | 36,5        | 78        | M28 x 1              | 15°                | 3 - 16                               | 6 - 13                             | 4 - 11                         |
| TZG.0032                                               | 32          | 40          | 90        | M32 x 1,5            | 15°                | 3 - 25                               | 6 - 21                             | 4 - 17                         |
| TZG.0034                                               | 34          | 38,7        | 78        | M33 x 1,5            | 12,30°             | 3 - 25                               | 6 - 21                             | 4 - 17                         |
| TZGB.0034                                              | 34          | 42          | 90        | M30 x 1L             | 15°                | 3 - 25                               | 6 - 21                             | 4 - 17                         |
| TZG.0035                                               | 35          | 40          | 65        | M34 x 1              | 12°                | 3 - 25                               | 6 - 21                             | 4 - 17                         |
| TZG.0042                                               | 42          | 54          | 130       | M36 x 1,5            | 15°                | 3 - 28                               | 6 - 24                             | 4 - 19                         |
| TZG.0045                                               | 45          | 52          | 85        | M42 x 1,5L           | 15°                | 3 - 35                               | 6 - 30                             | 4 - 24                         |

12

13

14

15

16

### Akcesoria / Accessories / Zubehör / Аксессуары:



Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

Strona / Page: 329

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

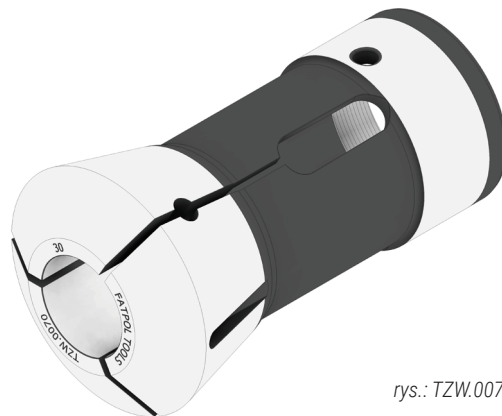
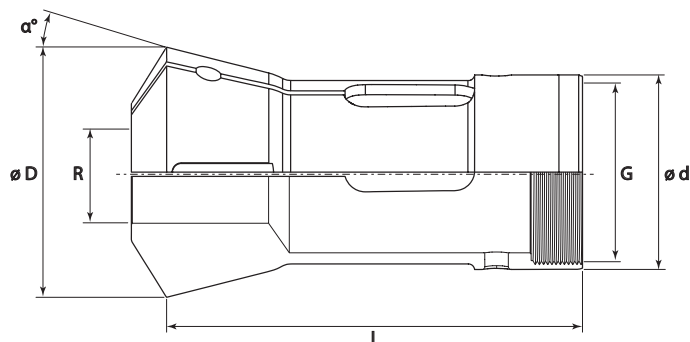
### Tuleje zaciskowe z gwintem wewnętrznym TZw

Clamping collets with internal TZw

Spannzangen mit Innengewinde

Цанги TZw с внутренней резьбой для автоматов одно- и многошпиндельных

TZw



rys.: TZW.0070

#### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | ø d<br>(mm) | L<br>(mm) | G<br>Gwint<br>Thread | α°<br>Kąt<br>Angle | EG/EQ/EL<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------------|-----------|----------------------|--------------------|--------------------------------------|------------------------------------|--------------------------------|
| TZW.0018                                               | 18          | 67        | M15 x 0,75           | 15°                | 3 - 12                               | -                                  | -                              |
| TZW.0020                                               | 20          | 75        | M16 x 1              | 15°                | 3 - 12                               | -                                  | -                              |
| TZW.0045                                               | 45          | 159       | M40 x 1 L            | 15,05°             | 3 - 25                               | 4 - 20                             | 6 - 16                         |
| TZW.0070                                               | 70          | 149       | M65 x 1,5 L          | 15,05°             | 3 - 48                               | 10 - 40                            | 10 - 33                        |
| TZWA.0070                                              | 70          | 184       | M65 x 1,5 L          | 15,05°             | 3 - 48                               | 10 - 40                            | 10 - 33                        |
| TZW.0090                                               | 90          | 170       | M85 x 1,5 L          | 15,05°             | 3 - 67                               | 10 - 57                            | 10 - 46                        |
| TZWA.0090                                              | 90          | 219       | M85 x 1,5 L          | 15,05°             | 3 - 67                               | 10 - 57                            | 10 - 46                        |

#### Akcesoria / Accessories / Zubehör / Аксессуары:



Gumowe uszczelki  
Rubber plugs  
Gummistopfen  
ПРОБКА РЕЗИНА

Strona / Page: 329

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

HYDROMAT

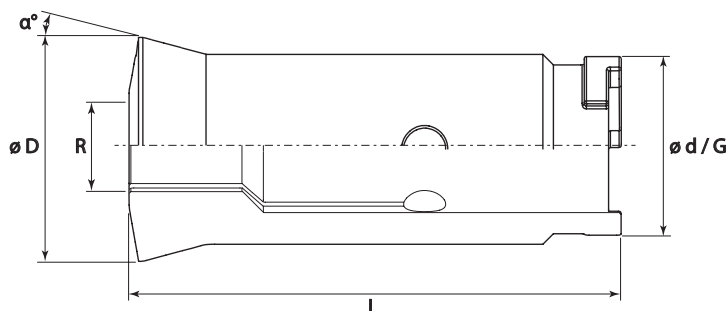
EUBAMA

### Tuleje zaciskowe do maszyn transferowych Hydromat, Eubama

Clamping collets for Hydromat, Eubama

Hydromatspannzangen

Цанги TZn для автоматов одно- и многошпиндельных



rys.: HYD.45QC

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | Długość<br>otworu<br>Hole length<br>(mm) | G<br>Gwint<br>Thread    | EG<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------------|-------------|-------------|-----------|------------------------------------------|-------------------------|--------------------------------|------------------------------------|--------------------------------|
| HYD.20                                                 | HW 20       | 20          | 26,3        | 96,5      | 31                                       | Ø 19,7 x 1,666 45° / 5° | 1,0 - 20,0                     | 2,0 - 10,0                         | 2,0 - 12,0                     |
| HYD.25                                                 | HW 25       | 25          | 33,7        | 97,6      | 31                                       | Ø 24,7 x 1,693 45° / 5° | 3,0 - 25,0                     | 3,0 - 12,0                         | 3,0 - 15,0                     |
| HYD.25QC                                               | HW 25 QC    | 25          | 33,7        | 97,6      | 31                                       | Bayonet                 | 3,0 - 25,0                     | 3,0 - 12,0                         | 3,0 - 15,0                     |
| HYD.32                                                 | HB 32       | 32          | 40          | 106       | 44                                       | Ø 29,7 x 1,693 45° / 5° | 3,0 - 28,0                     | 3,0 - 19,0                         | 3,0 - 24,0                     |
| HYD.32QC                                               | HB 32 QC    | 32          | 40          | 106       | 44                                       | Bayonet                 | 3,0 - 28,0                     | 3,0 - 19,0                         | 3,0 - 24,0                     |
| HYD.32.45                                              | HB 32 / 45  | 32          | 53          | 122       | 50                                       | Ø 29,7 x 1,693 45°/5°   | 3,0 - 41,0                     | 3,0 - 29,0                         | 3,0 - 35,0                     |
| HYD.45                                                 | HB 45       | 45          | 53          | 115       | 53                                       | M 42 x 1,5              | 3,0 - 41,0                     | 3,0 - 29,0                         | 3,0 - 35,0                     |
| HYD.45QC                                               | HB 45 QC    | 45          | 53          | 116,5     | 53                                       | Bayonet                 | 3,0 - 41,0                     | 3,0 - 29,0                         | 3,0 - 35,0                     |
| HYD.45.60                                              | HB 45 / 60  | 45          | 68          | 129,5     | -                                        | M 42 x 1,5              | -                              | -                                  | -                              |

### Charakterystyka:

- Do maszyn transferowych Hydromat oraz Eubama
- Do maszyn z poziomym obrotowym stołem indeksacyjnym
- Do maszyn z pionowym obrotowym stołem indeksacyjnym
- Mocowanie na gwint lub system szybkiej wymiany Bayonet (QC)

### Characteristic:

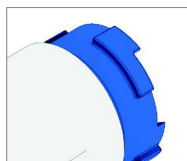
- To transfer machines Hydromat and EUBAM
- For machines with horizontal rotary indexing table
- For machines with vertical rotary indexing table
- Mounting thread or the quick-change system Bayonet (QC)

### Eigenschaften:

- Zur Übertragung von Maschinen Hydromat und EUBAM
- Bei Maschinen mit horizontalen Rundscheittisch
- Bei Maschinen mit vertikalen Rundscheittisch
- Befestigungsgewinde oder das Schnellwechselsystem Bajonett (QC)

### Характеристики:

- Для передачи машины Гидромат и EUBAM
- Для машин с вращающимся столом индексирования
- Для машин с вертикальной роторной индексирования таблицы
- Крепежная резьба или система быстрой замены Штык (QC)

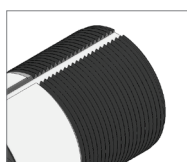


### > Wersja z systemem szybkiej wymiany Bayonet QC (Quick Change)

Version with quick-change system Bayonet QC (Quick Change)

Ausführung mit Schnellwechselsystem Bajonett QC (Quick Change)

Исполнение с системой быстрой замены Штык QC (Quick Change)



### > Wersja z gwintem zewnętrznym

Version with external thread

Ausführung mit Außengewinde

Исполнение с наружной резьбой



# TULEJE MOCUJĄCE

## FEED FINGERS

### Tuleje podające TZP oraz DIN6344

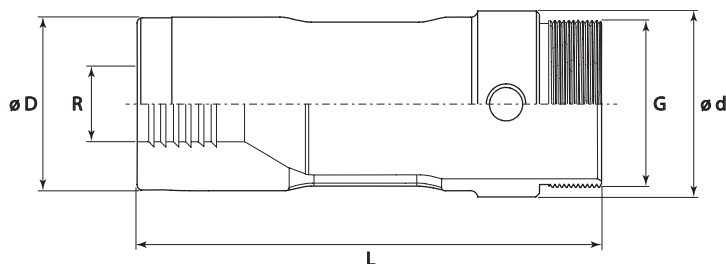
Feed fingers DIN 6344

Vorschubzangen

Цанги DIN6344 для автоматов одно- и многошпиндельных

DIN6344

TZp



rys.: TZP0031

### Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Typ<br>Type | Zamiennik<br>Substitute | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | G<br>Gwint<br>Thread | EG<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) |
|--------------------------------------------------------|-------------|-------------------------|-------------|-------------|-----------|----------------------|--------------------------------|------------------------------------|--------------------------------|
| <b>TZP.0018</b>                                        | TZp-0018    | 207E                    | 18          | 16          | 70        | M16 x 1 L            | 3 - 12                         | 6 - 10                             | 4 - 8                          |
| <b>TZPB.0018</b>                                       | TZpb-0018   | -                       | 18          | 16          | 63        | M16 x 0,75 L         | 3 - 12                         | 6 - 10                             | 4 - 8                          |
| <b>TZP.0024</b>                                        | TZp-0024    | 220E                    | 24          | 22          | 85        | M22 x 1 L            | 3 - 18                         | 6 - 15                             | 4 - 12                         |
| <b>TZP.0025</b>                                        | TZp-0025    | -                       | 25          | 25          | 90        | M14 x 1 L            | 3 - 20                         | 6 - 17                             | 4 - 14                         |
| <b>TZP.0026</b>                                        | TZp-0026    | -                       | 26          | 24          | 88        | M24 x 1 L            | 3 - 20                         | 6 - 17                             | 4 - 14                         |
| <b>236E</b>                                            | 236E        | -                       | 30          | 29          | 95        | M28 x 1 L            | 3 - 24                         | 6 - 20                             | 4 - 17                         |
| <b>TZP.0031</b>                                        | TZp-0031    | 237E                    | 31          | 29          | 90        | M29 x 1 L            | 3 - 25                         | 6 - 21                             | 4 - 17                         |
| <b>TZP.0032</b>                                        | TZp-0032    | -                       | 32          | 29          | 96        | M29 x 1 L            | 3 - 25                         | 6 - 21                             | 4 - 17                         |
| <b>TZPA.0032</b>                                       | TZpa-0032   | -                       | 32          | 29          | 96        | M30 x 1,5 L          | 3 - 25                         | 6 - 21                             | 4 - 17                         |
| <b>TZP.0033</b>                                        | TZp-0033    | -                       | 33          | 32,5        | 140       | M30 x 1 L            | 3 - 25                         | 6 - 21                             | 4 - 17                         |
| <b>TZP.0042</b>                                        | TZp-0042    | 254E                    | 42          | 40          | 116       | M40 x 1 L            | 3 - 36                         | 6 - 31                             | 4 - 25                         |
| <b>TZP.0046</b>                                        | TZp-0046    | -                       | 46          | 42,5        | 123       | M43 x 0,75 L         | 3 - 40                         | 6 - 34                             | 4 - 28                         |
| <b>TZPA.0057</b>                                       | TZpa-0057   | -                       | 57          | 56          | 195       | M54 x 1,5 L          | 10 - 48                        | 10 - 41                            | 10 - 33                        |
| <b>TZP.0057</b>                                        | TZp-0057    | -                       | 57          | 56          | 160       | M54 x 1,5 L          | 10 - 48                        | 10 - 41                            | 10 - 33                        |
| <b>273E</b>                                            | 273E        | -                       | 60          | 58          | 140       | M58 x 1 L            | 3 - 52                         | 6 - 45                             | 4 - 36                         |
| <b>TZP.0077</b>                                        | TZp-0077,5  | -                       | 77,5        | 76          | 170       | M74 x 1,5 L          | 10 - 67                        | 10 - 58                            | 10 - 46                        |
| <b>TZPA.0077</b>                                       | TZpa-0077,5 | -                       | 77,5        | 76          | 210       | M74 x 1,5 L          | 10 - 67                        | 10 - 58                            | 10 - 46                        |

# TULEJE MOCUJĄCE

## CLAMPING COLLETS

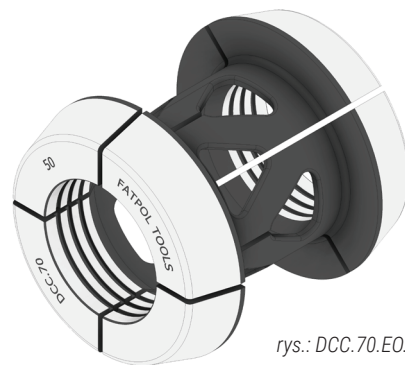
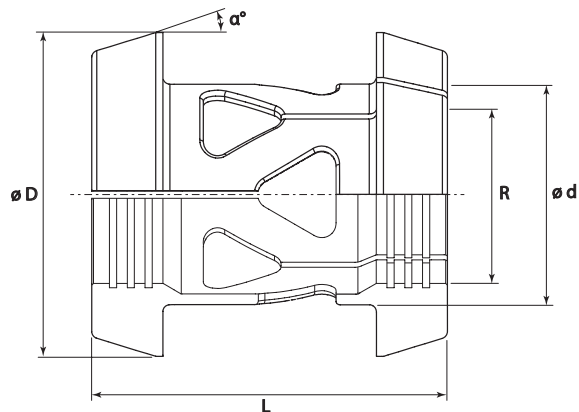
DCC

### Tuleje zaciskowe z podwójnym stożkiem

Double cone collets

SPH Spannhülsen Für Lademagazine

Цанги SPH



rys.: DCC.70.E0.R5000

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Ø d<br>(mm) | Ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | R<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) |
|--------------------------------------------------------|-------------|-------------|-----------|--------------------|-------------------------------|------------------------------------|
| <b>DCC.32</b>                                          | 39          | 50          | 70        | 17°                | 3 - 32                        | 6 - 27                             |
| <b>DCC.42</b>                                          | 46          | 57          | 80        | 17°                | 3 - 42                        | 6 - 36                             |
| <b>DCC.45</b>                                          | 49          | 60          | 80        | 17°                | 3 - 45                        | 6 - 38                             |
| <b>DCC.52</b>                                          | 60          | 70          | 80        | 16°                | 3 - 52                        | 6 - 45                             |
| <b>DCC.60</b>                                          | 70          | 81          | 90        | 17°                | 3 - 64                        | 6 - 52                             |
| <b>DCC.70</b>                                          | 80          | 91          | 100       | 17°                | 3 - 70                        | 6 - 60                             |
| <b>DCC.80</b>                                          | 95          | 108         | 105       | 17°                | 3 - 80                        | 6 - 68                             |

# TULEJE MOCUJĄCE

## COLLETS FOR MULTI-SPINDLE LATHES

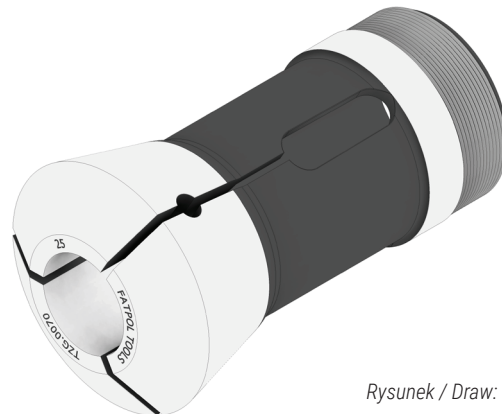
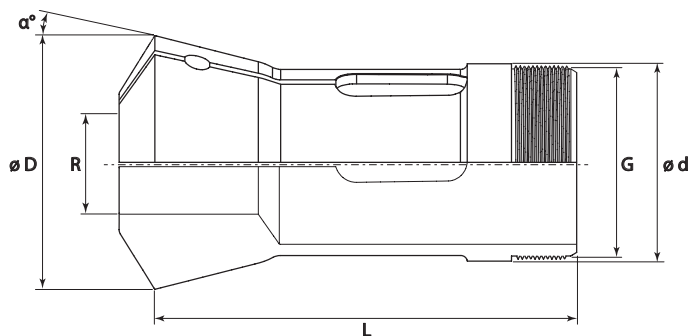
### Tuleje zaciskowe do automatów wielowrzecionowych

Collets for multi-spindle lathes

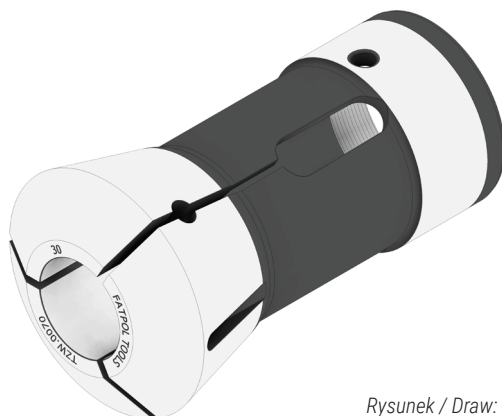
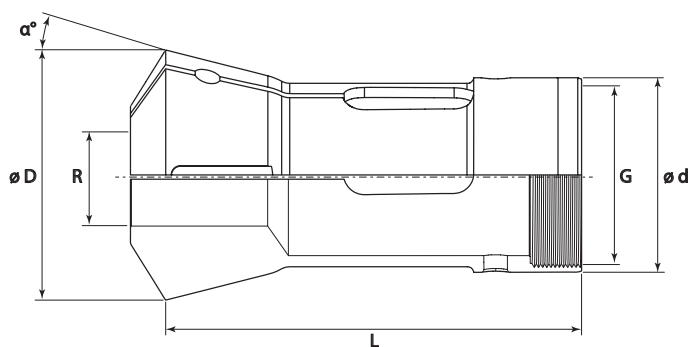
Spannzangen für Mehrspindelautomaten

Цанги TZn для автоматов одно- и многшпиндельных

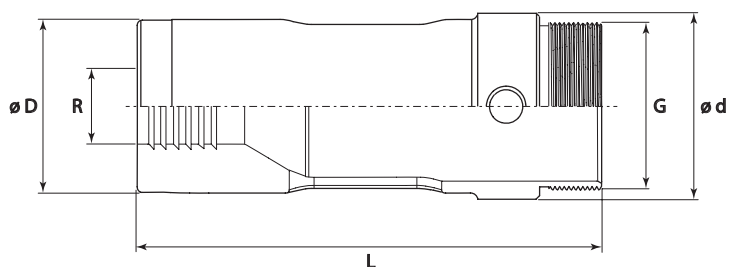
9000E



Rysunek / Draw: 1



Rysunek / Draw: 2



Rysunek / Draw: 3

# TULEJE MOCUJĄCE

## COLLETS FOR MULTI-SPINDLE LATHES

9000E

### Tuleje zaciskowe do automatów wielowrzecionowych

Collets for multi-spindle lathes

Spannzangen für Mehrspindelautomaten

Цанги ТЗн для автоматов одно- и многошпиндельных

Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Producent automatu<br>Lathe Manufacturer | Typ automatu<br>Type lathe | Typ tulei<br>Type of collet | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | G<br>Gwint<br>Thread | R<br>Okragły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) | Rys<br>Draw |
|--------------------------------------------------------|------------------------------------------|----------------------------|-----------------------------|-------------|-------------|-----------|--------------------|----------------------|-------------------------------|------------------------------------|--------------------------------|-------------|
| 9012E                                                  | GILDEMEISTER                             | AS 16/20 GM 20, GS 20      | zaciskowa / clamping        | 34          | 42          | 90        | 16°                | M30 x 1L             | 24                            | 19                                 | 16                             | 1           |
| 9017E                                                  | GILDEMEISTER                             | AS 20/GS 20                | zaciskowa / clamping        | 38          | 45,5        | 90        | 16°                | M34 x 0,75L          | 28                            | 23                                 | 19                             | 1           |
| 9045E                                                  | GILDEMEISTER                             | AS 25                      | zaciskowa / clamping        | 45          | 60,4        | 159       | 15,05°             | M40 x 1L             | 34                            | 28                                 | 23                             | 2           |
| 9046E                                                  | GILDEMEISTER                             | GS 25                      | zaciskowa / clamping        | 45          | 60,4        | 159       | 15,05°             | M40 x 1,5L           | 34                            | 28                                 | 23                             | 2           |
| 9069E                                                  | GILDEMEISTER                             | AV/AS 32, GS32             | zaciskowa / clamping        | 53          | 69,4        | 128       | 15°                | M48 x 1,5L           | 35                            | 29                                 | 24                             | 2           |
| 9069E                                                  | GILDEMEISTER                             | GM 32/6                    | zaciskowa / clamping        | 53          | 69,4        | 128       | 15°                | M48 x 1,5L           | 35                            | 29                                 | 24                             | 2           |
| 9069E                                                  | GILDEMEISTER                             | GM 35                      | zaciskowa / clamping        | 53          | 69,4        | 128       | 15°                | M48 x 1,5L           | 35                            | 29                                 | 24                             | 2           |
| 9115E                                                  | GILDEMEISTER                             | GM 42/6                    | zaciskowa / clamping        | 64          | 80,5        | 129       | 15°                | M59 x 1,5L           | 52                            | 44                                 | 35                             | 2           |
| 9081E                                                  | GILDEMEISTER                             | GS 35/36, GS 42            | zaciskowa / clamping        | 56          | 72,4        | 131       | 15°                | M52 x 1,5L           | 42                            | 35                                 | 28                             | 2           |
| 9132E                                                  | GILDEMEISTER                             | AV/AS 48, AA 48            | zaciskowa / clamping        | 70          | 90,4        | 149       | 15°                | M65 x 1,5L           | 48                            | 40                                 | 32                             | 2           |
| 9178E                                                  | GILDEMEISTER                             | AV/AS 67, AA 67            | zaciskowa / clamping        | 90          | 115,4       | 170       | 15°                | M85 x 1,5L           | 78                            | 66                                 | 54                             | 2           |
| 9209E                                                  | GILDEMEISTER                             | AV/AS 82                   | zaciskowa / clamping        | 109         | 138,4       | 189       | 15°                | M102 x 1,5L          | 90                            | 76                                 | 62                             | 2           |
| 9239E                                                  | GILDEMEISTER                             | AS 100                     | zaciskowa / clamping        | 128         | 160,4       | 250       | 15°                | M122 x 1,5L          | 110                           | 94                                 | 76                             | 2           |
| 9258E                                                  | GILDEMEISTER                             | AS 16/20 GM 20, GS 20      | podająca / feed finger      | 25          | 25          | 90        |                    | M24 x 1              | 20                            | 16                                 | 13                             | 3           |
| 9258E2                                                 | GILDEMEISTER                             | AS 20/GS 20                | podająca / feed finger      | 30,5        | 30,5        | 90        |                    | M28,5 x 0,75         | 25                            | 20                                 | 16                             | 3           |
| 9287E                                                  | GILDEMEISTER                             | AS 25                      | podająca / feed finger      | 33          | 32,5        | 140       |                    | M30 x 1L             | 26                            | 21                                 | 17                             | 3           |
| 9289E                                                  | GILDEMEISTER                             | GS 25                      | podająca / feed finger      | 34,2        | 30          | 140       |                    | M30 x 1              | 26                            | 21                                 | 17                             | 3           |
| 9316E                                                  | GILDEMEISTER                             | AV/AS 32, GS32             | podająca / feed finger      | 40          | 39,8        | 136       |                    | M38 x 1,5L           | 32                            | 27                                 | 21                             | 3           |
| 9316E2                                                 | GILDEMEISTER                             | GM 32/6                    | podająca / feed finger      | 41,5        | 39,8        | 136       |                    | M38 x 1,5            | 32                            | 27                                 | 21                             | 3           |
| 9316E3                                                 | GILDEMEISTER                             | GM 35                      | podająca / feed finger      | 41,5        | 39,8        | 132       |                    | M39 x 1              | 35                            | 29                                 | 24                             | 3           |
| 9374E                                                  | GILDEMEISTER                             | GM 42/6                    | podająca / feed finger      | 51,4        | 50,2        | 136       |                    | M48 x 1,5            | 42                            | 35                                 | 28                             | 3           |
| 9333E                                                  | GILDEMEISTER                             | GS 35/36, GS 42            | podająca / feed finger      | 45          | 43,8        | 136       |                    | M42 x 1,5L           | 36                            | 30                                 | 24                             | 3           |
| 9368E                                                  | GILDEMEISTER                             | AV/AS 48, AA 48            | podająca / feed finger      | 57          | 56          | 160       |                    | M54 x 1,5L           | 48                            | 40                                 | 32                             | 3           |
| 9447E                                                  | GILDEMEISTER                             | AV/AS 67, AA 67            | podająca / feed finger      | 77,5        | 76          | 170       |                    | M74 x 1,5L           | 67                            | 57                                 | 46                             | 3           |
| 9475E                                                  | GILDEMEISTER                             | AV/AS 82                   | podająca / feed finger      | 94          | 93          | 180       |                    | M88 x 1,5L           | 80                            | 68                                 | 55                             | 3           |
| 9483E                                                  | GILDEMEISTER                             | AS 100                     | podająca / feed finger      | 114         | 113         | 235       |                    | M108 x 1,5L          | 100                           | 85                                 | 69                             | 3           |
| 9012PU                                                 | GILDEMEISTER                             | AS16/20 GM20               | przechwyty / pick up        | 26          | 28,5        | 80        | 5°                 | M21,5 x 0,75         | 25                            | 20                                 | 16                             |             |
| 9012PUH                                                | GILDEMEISTER                             | GS20                       | przechwyty / pick up        | 28          | 32          | 64        | 8°                 | M24 x 1,5L           | 25                            | 20                                 | 16                             |             |
| 9045PU                                                 | GILDEMEISTER                             | AS25                       | przechwyty / pick up        | 30          | 35,1        | 63        | 15°                | M20 x 1,5            | 25                            | 20                                 | 16                             |             |
| 9069PUV                                                | GILDEMEISTER                             | AS32                       | przechwyty / pick up        | 38          | 43          | 80        | 8°                 | M24 x 1,5            | 32                            | 27                                 | 21                             |             |
| 9069PU                                                 | GILDEMEISTER                             | GM35                       | przechwyty / pick up        | 38          | 43          | 80        | 8°                 | M24 x 1,5            | 35                            | 29                                 | 24                             |             |
| 9115PU                                                 | GILDEMEISTER                             | GM42                       | przechwyty / pick up        | 47          | 52,5        | 73        | 8°                 | -                    | 42                            | 35                                 | 28                             |             |
| 9081PU                                                 | GILDEMEISTER                             | GS35/36 GS42               | przechwyty / pick up        | 38          | 43          | 80        | 15°                | M24 z 1,5            | 36                            | 30                                 | 24                             |             |
| 9132PU                                                 | GILDEMEISTER                             | AV/AS48 AA48               | przechwyty / pick up        | 42          | 55          | 91        | 15°                | M28 x 1,5            | 48                            | 40                                 | 32                             |             |
| 9178PU                                                 | GILDEMEISTER                             | AV/AS67 AA67               | przechwyty / pick up        | 45          | 90,1        | 100       | 15°                | M28 x 1,5            | 67                            | 57                                 | 46                             |             |
| 9038E                                                  | PITTLER                                  | PRC 25/8                   | zaciskowa / clamping        | 44,3        | 56          | 139,5     | 15°                | 1 -/16" x 18L        | 25                            | 20                                 | 16                             | 1           |
| 9039E                                                  | PITTLER                                  | PS 26, SAS 26/8            | zaciskowa / clamping        | 46          | 60,4        | 120       | 15°                | M40 x 1,5L           | 26                            | 21                                 | 17                             | 1           |
| 9042E                                                  | PITTLER                                  | RP38/4/6                   | zaciskowa / clamping        | 48          | 62,5        | 140       | 15°                | M42 x 1,5L           | -                             | -                                  | -                              | 1           |
| 9067E                                                  | PITTLER                                  | PRB 32, PRC 32             | zaciskowa / clamping        | 52,2        | 64,7        | 152       | 15°                | 1 13/16" x 20L       | 32                            | 27                                 | 21                             | 1           |
| 9078E                                                  | PITTLER                                  | PRC 36                     | zaciskowa / clamping        | 56,92       | 69,72       | 152       | 15°                | 2" x 20L             | 36                            | 30                                 | 24                             | 1           |
| 9081E                                                  | PITTLER                                  | PS 36                      | zaciskowa / clamping        | 56          | 72,4        | 131       | 15°                | M52 x 1,5L           | 44                            | 37                                 | 30                             | 1           |
| 9108E                                                  | PITTLER                                  | RP42/4/6                   | zaciskowa / clamping        | 62          | 82,4        | 180       | 15°                | M58 x 1,5L           | -                             | -                                  | -                              | 1           |
| 9141E                                                  | PITTLER                                  | PRB 50, PRC 50             | zaciskowa / clamping        | 76,8        | 95,5        | 180       | 15°                | 2 11/16" x 16L       | 51                            | 43                                 | 35                             | 1           |
| 9151E                                                  | PITTLER                                  | PS 51                      | zaciskowa / clamping        | 75          | 97,4        | 155       | 15°                | M68 x 1,5L           | 51                            | 43                                 | 35                             | 1           |
| 9147E                                                  | PITTLER                                  | RP56/7, PRC576             | zaciskowa / clamping        | 78          | 96,5        | 178       | 15°                | M74 x 1,5            | -                             | -                                  | -                              | 1           |
| 9182E                                                  | PITTLER                                  | RP70/4/6                   | zaciskowa / clamping        | 95          | 115         | 180       | 15°                | M90 x 1,5            | -                             | -                                  | -                              | 1           |
| 9206E                                                  | PITTLER                                  | PRC 72                     | zaciskowa / clamping        | 106         | 127,7       | 225       | 15°                | 3 13/16" x 18"L      | 86                            | 73                                 | 59                             | 1           |
| 9236E                                                  | PITTLER                                  | PRC100                     | zaciskowa / clamping        | 136,5       | 165,7       | 224       | 15°                | 51/16" x 18L         | -                             | -                                  | -                              | 1           |
| 9240E                                                  | PITTLER                                  | PRC120                     | zaciskowa / clamping        | 153,8       | 180         | 240       | 15°                | M148 x 1,5L          | -                             | -                                  | -                              | 1           |

# TULEJE MOCUJĄCE

## COLLETS FOR MULTI-SPINDLE LATHES

### Tuleje zaciskowe do automatów wielowrzecionowych

Collets for multi-spindle lathes

Spannzangen für Mehrspindelautomaten

Цанги TZn для автоматов одно- и многошпиндельных

9000E

Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Producent automatu<br>Lathe Manufacturer | Typ automatu<br>Type lathe | Typ tulei<br>Type of collet | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | G<br>Gwint<br>Thread | R<br>Okragły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) | Rys<br>Draw |
|--------------------------------------------------------|------------------------------------------|----------------------------|-----------------------------|-------------|-------------|-----------|--------------------|----------------------|-------------------------------|------------------------------------|--------------------------------|-------------|
| 9278E                                                  | PITTLER                                  | PRC 25/8                   | podająca / feed finger      | 34,9        | 31,75       | 147       |                    | 31,7 x 20f*L         | 25                            | 20                                 | 16                             | 3           |
| 9282E                                                  | PITTLER                                  | PS 26, SAS 26/8            | podająca / feed finger      | 35          | 33          | 118       |                    | M33 x 1,5            | 26                            | 21                                 | 17                             | 3           |
| 9317E                                                  | PITTLER                                  | RP38/4/6                   | podająca / feed finger      | 36          | 40          | 140       |                    | M36 x 1,5L           | -                             | -                                  | -                              | 3           |
| 9285E                                                  | PITTLER                                  | PRB 32                     | podająca / feed finger      | 39,5        | 38,5        | 168       |                    | 36,5 x 20f*L         | 32                            | 27                                 | 21                             | 3           |
| 9330E                                                  | PITTLER                                  | PRC 36                     | podająca / feed finger      | 44,3        | 43,2        | 168       |                    | 41,3 x 20f*L         | 36                            | 30                                 | 24                             | 3           |
| 9333E                                                  | PITTLER                                  | PS 36                      | podająca / feed finger      | 45          | 43,8        | 136       |                    | M42 x 1,5L           | 36                            | 30                                 | 24                             | 3           |
| 9365E                                                  | PITTLER                                  | RP42/4/6                   | podająca / feed finger      | 50          | 55          | 170       |                    | M52 x 1,5L           | -                             | -                                  | -                              | 3           |
| 9405E                                                  | PITTLER                                  | PRB 50, PRC 50             | podająca / feed finger      | 63,5        | 59          | 186       |                    | 58,7 x 24f*L         | 51                            | 43                                 | 35                             | 3           |
| 9401E                                                  | PITTLER                                  | PS 51                      | podająca / feed finger      | 60          | 59          | 160       |                    | M57 x 1,5L           | 51                            | 43                                 | 35                             | 3           |
| 9412E                                                  | PITTLER                                  | RP56/7, PRC576             | podająca / feed finger      | 59          | 60          | 160       |                    | M64 x 1,5L           | -                             | -                                  | -                              | 3           |
| 9453E                                                  | PITTLER                                  | RP70/4/6                   | podająca / feed finger      | 80          | 85          | 176       |                    | M80 x 1,5L           | -                             | -                                  | -                              | 3           |
| 9472E                                                  | PITTLER                                  | PRC 72                     | podająca / feed finger      | 92          | 85          | 214       |                    | 85,7 x 24f*L         | 75                            | 64                                 | 52                             | 3           |
| 9482E                                                  | PITTLER                                  | PRC100                     | podająca / feed finger      | 116         | 114,3       | 273       |                    | 111,1 x 18f*L        | 102                           | 87                                 | 71                             | 3           |
| 9484E                                                  | PITTLER                                  | PRC120                     | podająca / feed finger      | 138         | 135         | 280       |                    | M132 x 1,5L          | 122                           | 104                                | 85                             | 3           |
| 9015E                                                  | SCHÜTTE                                  | SF13                       | zaciskowa / clamping        | 25          | 36,2        | 72        | 15°                | M22 x 1L             | 18                            | 14                                 | 11                             | 1           |
| 9007E                                                  | SCHÜTTE                                  | SE16, SE18                 | zaciskowa / clamping        | 32          | 41,8        | 84        | 15°                | M28 x 1L             | 18                            | 14                                 | 11                             | 1           |
| 9007E2                                                 | SCHÜTTE                                  | AG20                       | zaciskowa / clamping        | 32          | 41,8        | 84        | 15°                | M28 x 1L             | 20                            | 16                                 | 13                             | 1           |
| 9016E                                                  | SCHÜTTE                                  | SF20                       | zaciskowa / clamping        | 32          | 41,6        | 84        | 15°                | M30 x 1L             | 20                            | 16                                 | 13                             | 1           |
| 9039E                                                  | SCHÜTTE                                  | VD/SD/SE25, SF/SE/AF26     | zaciskowa / clamping        | 46          | 60,3        | 120       | 15°                | M40 x 1,5L           | 26                            | 21                                 | 17                             | 1           |
| 9070E                                                  | SCHÜTTE                                  | VD/SD32, SF/AF32           | zaciskowa / clamping        | 53          | 69,7        | 136       | 15°                | M47 x 1,5L           | 40                            | 33                                 | 27                             | 1           |
| 9112E                                                  | SCHÜTTE                                  | AD40, SF40, SF42           | zaciskowa / clamping        | 62,9        | 78,3        | 157       | 15°                | M56 x 1,5L           | 42                            | 35                                 | 28                             | 1           |
| 9139E                                                  | SCHÜTTE                                  | VD/SD50, SF/AF51           | zaciskowa / clamping        | 75          | 97,8        | 187       | 15°                | M68 x 1,5L           | 51                            | 43                                 | 35                             | 1           |
| 9179E                                                  | SCHÜTTE                                  | VD63/SF63                  | zaciskowa / clamping        | 90          | 115,8       | 211       | 15°                | M82 x 1,5L           | 72                            | 61                                 | 49                             | 1           |
| 9187E                                                  | SCHÜTTE                                  | SF67/AF67                  | zaciskowa / clamping        | 89,9        | 115,4       | 180       | 15°                | M85 x 1,5L           | 74                            | 63                                 | 51                             | 1           |
| 9210E                                                  | SCHÜTTE                                  | VD/SD80, SF/AF81           | zaciskowa / clamping        | 109         | 138,8       | 241       | 15°                | M100 x 1,5           | 85                            | 72                                 | 59                             | 1           |
| 9261E                                                  | SCHÜTTE                                  | SF13                       | podająca / feed finger      | 19,6        | 17          | 75,5      |                    | M18 x 1              | 14                            | 11                                 | 9                              | 3           |
| 9255E                                                  | SCHÜTTE                                  | SE16, SE18                 | podająca / feed finger      | 25          | 23          | 88        |                    | M23 x 1              | 18                            | 11                                 | 9                              | 3           |
| 9262E                                                  | SCHÜTTE                                  | AG20                       | podająca / feed finger      | 27          | 25          | 88        |                    | M25 x 1              | 20                            | 16                                 | 13                             | 3           |
| 9282E                                                  | SCHÜTTE                                  | VD/SD/SE25, SF/SE/AF26     | podająca / feed finger      | 35          | 33          | 118       |                    | M33 x 1,5            | 26                            | 21                                 | 17                             | 3           |
| 9319E                                                  | SCHÜTTE                                  | VD/SD32, SF/AF32           | podająca / feed finger      | 41,8        | 40          | 130       |                    | M38 x 1,5            | 32                            | 27                                 | 21                             | 3           |
| 9372E                                                  | SCHÜTTE                                  | AD40, SF40, SF42           | podająca / feed finger      | 51          | 49          | 174       |                    | M48 x 1,5            | 42                            | 35                                 | 28                             | 3           |
| 9406E                                                  | SCHÜTTE                                  | VD/SD50, SF/AF51           | podająca / feed finger      | 62          | 58          | 178,15    |                    | M58 x 1,5            | 51                            | 43                                 | 35                             | 3           |
| 9450E                                                  | SCHÜTTE                                  | VD63/SF63                  | podająca / feed finger      | 77          | 72          | 198,5     |                    | M72 x 1,5L           | 63                            | 52                                 | 43                             | 3           |
| 9456E                                                  | SCHÜTTE                                  | SF67/AF67                  | podająca / feed finger      | 78          | 76          | 196       |                    | M75 x 1,5L           | 67                            | 57                                 | 46                             | 3           |
| 9474E                                                  | SCHÜTTE                                  | VD/SD80, SF/AF81           | podająca / feed finger      | 93          | 90          | 226,5     |                    | M88 x 1,5L           | 80                            | 68                                 | 55                             | 3           |
| 9015PU                                                 | SCHÜTTE                                  | SF13                       | przechwyty / pick up        | 20          | 24          | 40        | 15°                | M16 X 1,5L           | 14                            | 11                                 | 9                              |             |
| 9007PU                                                 | SCHÜTTE                                  | SE16/SE18                  | przechwyty / pick up        | 25          | 35,1        | 58        | 15°                | M18 X 1,5L           | 18                            | 15                                 | 11                             |             |
| 9016PU                                                 | SCHÜTTE                                  | SF20                       | przechwyty / pick up        | 28          | 36          | 50        | 15°                | M24 X 1,5L           | 20                            | 16                                 | 13                             |             |
| PUSE25                                                 | SCHÜTTE                                  | SE25                       | przechwyty / pick up        | 32          | 45,1        | 71        | 15°                | M22 X 1,5L           | 27                            | 22                                 | 18                             |             |
| 9049PU                                                 | SCHÜTTE                                  | SF26                       | przechwyty / pick up        | 34          | 42          | 53        | 15°                | -                    | 26                            | 21                                 | 17                             |             |
| 9070PU                                                 | SCHÜTTE                                  | VD32/SD32                  | przechwyty / pick up        | 39          | 50,6        | 81        | 15°                | M26 X 1,5L           | 26                            | 21                                 | 17                             |             |
| 9112PU                                                 | SCHÜTTE                                  | SF32/SF42                  | przechwyty / pick up        | 52          | 60,6        | 60        | 15°                | -                    | 40                            | 33                                 | 27                             |             |
| PUAD40                                                 | SCHÜTTE                                  | AD40                       | przechwyty / pick up        | 39          | 60,6        | 81        | 15°                | M26 X 1,5L           | 26                            | 21                                 | 17                             |             |
| L650PU                                                 | SCHÜTTE                                  | VD50/SD50                  | przechwyty / pick up        | 46          | 67,2        | 83        | 15°                | M32 X 1,5L           | 32                            | 27                                 | 21                             |             |
| 9139PU                                                 | SCHÜTTE                                  | SF51/AF51                  | przechwyty / pick up        | 63          | 71,6        | 60        | 15°                | -                    | 51                            | 43                                 | 35                             |             |
| 9187PU                                                 | SCHÜTTE                                  | SF67/SF81                  | przechwyty / pick up        | 76          | 88          | 75        | 15°                | -                    | 80                            | 68                                 | 55                             |             |
| 9007E                                                  | INDEX                                    | MS 16                      | zaciskowa / clamping        | 32          | 41,5        | 84        | 15°                | M28 x 1,5L           | 18                            | 14                                 | 11                             | 1           |
| 9033E                                                  | INDEX                                    | KS 20/22                   | zaciskowa / clamping        | 40          | 55,2        | 102       | 15°                | M35 x 1,5L           | 26                            | 21                                 | 17                             | 1           |
| 9039E                                                  | INDEX                                    | MS 25, KS 25               | zaciskowa / clamping        | 46          | 60,3        | 120       | 15°                | M40 x 1,5L           | 26                            | 21                                 | 17                             | 1           |

# TULEJE MOCUJĄCE

## COLLETS FOR MULTI-SPINDLE LATHES

9000E

### Tuleje zaciskowe do automatów wielowrzecionowych

Collets for multi-spindle lathes

Spannzangen für Mehrspindelautomaten

Цанги ТЗн для автоматов одно- и многошпиндельных

Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Producent automatu<br>Lathe Manufacturer | Typ automatu<br>Type lathe | Typ tulei<br>Type of collet | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | G<br>Gwint<br>Thread | R<br>Okragły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) | Rys<br>Draw |
|--------------------------------------------------------|------------------------------------------|----------------------------|-----------------------------|-------------|-------------|-----------|--------------------|----------------------|-------------------------------|------------------------------------|--------------------------------|-------------|
| 9070E                                                  | INDEX                                    | KS 32                      | zaciskowa / clamping        | 53          | 69,3        | 136       | 15°                | M47 x 1,5L           | 32                            | 27                                 | 21                             | 1           |
| 9108E                                                  | INDEX                                    | KS 42                      | zaciskowa / clamping        | 62          | 82,4        | 180       | 15°                | M58 x 1,5L           | 42                            | 35                                 | 28                             | 1           |
| 9133E                                                  | INDEX                                    | KS 50                      | zaciskowa / clamping        | 70          | 92          | 157       | 15°                | M65 x 2L             | 50                            | 42                                 | 34                             | 1           |
| 9255E                                                  | INDEX                                    | MS 16                      | podająca / feed finger      | 25          | 23          | 88        |                    | M23 x 1              | 18                            | 14                                 | 11                             | 3           |
| 9273E                                                  | INDEX                                    | KS 20/22                   | podająca / feed finger      | 31          | 28          | 102       |                    | M28 x 1,5            | 22                            | 18                                 | 14                             | 3           |
| 9282E                                                  | INDEX                                    | MS 25, KS 25               | podająca / feed finger      | 37          | 33          | 118       |                    | M33 x 1,5            | 26                            | 21                                 | 17                             | 3           |
| 9319E                                                  | INDEX                                    | KS 32                      | podająca / feed finger      | 41,8        | 40          | 130       |                    | M38 x 1,5            | 32                            | 27                                 | 21                             | 3           |
| 9364E                                                  | INDEX                                    | KS 42                      | podająca / feed finger      | 54          | 50          | 170       |                    | M50 x 1,5L           | 42                            | 35                                 | 28                             | 3           |
| 9402E                                                  | INDEX                                    | KS 50                      | podająca / feed finger      | 60          | 57          | 156       |                    | M57 x 2L             | 50                            | 42                                 | 34                             | 3           |
| 9039PU GM                                              | INDEX                                    | MS 25                      | przechwyty / pick up        | 25          | 35,4        | 65        | 15°                | -                    | 25                            | 20                                 | 16                             |             |
| 9039PU PM                                              | INDEX                                    | MS 25                      | przechwyty / pick up        | 25          | 31          | 59        | 15°                | -                    | 21                            | 17                                 | 14                             |             |
| 9108PU                                                 | INDEX                                    | KS 32                      | przechwyty / pick up        | 36,5        | 49          | 49,8      | 15°                | M28 x 1,5L           | 30                            | 25                                 | 20                             |             |
| 9108PU                                                 | INDEX                                    | KS 42                      | przechwyty / pick up        | 36,5        | 49          | 49,8      | 15°                | M28 x 1,5L           | 30                            | 25                                 | 20                             |             |
| 9108PU                                                 | INDEX                                    | KS 50                      | przechwyty / pick up        | 36,5        | 49          | 49,8      | 15°                | M28 x 1,5L           | 30                            | 25                                 | 20                             |             |
| 9001E                                                  | TORNOS                                   | AS/BS 14                   | zaciskowa / clamping        | 25          | 35          | 75        | 16°                | M22 x 1              | 15                            | 12                                 | 10                             | 1           |
| 9021E                                                  | TORNOS                                   | AS/SAS 16                  | zaciskowa / clamping        | 25          | 35          | 94        | 16°                | M25 x 1              | 16                            | 13                                 | 10                             | 2           |
| 9018E                                                  | TORNOS                                   | BS 20/22                   | zaciskowa / clamping        | 35          | 45          | 107       | 15,30°             | M33 x 1              | 23                            | 19                                 | 15                             | 2           |
| 9020E                                                  | TORNOS                                   | BS 20 B                    | zaciskowa / clamping        | 36          | 45          | 107       | 15,30°             | M33 x 1,25           | 25                            | 20                                 | 16                             | 1           |
| 9012ET                                                 | TORNOS                                   | MULTI DECO 20              | zaciskowa / clamping        | 34          | 42          | 90        | 16°                | M30 x 1L             | 24                            | 19                                 | 16                             | 2           |
| 9039ET                                                 | TORNOS                                   | MULTI DECO 26              | zaciskowa / clamping        | 46          | 60,3        | 120       | 15°                | M22 x 1,5L           | 30                            | 25                                 | 20                             | 2           |
| 9081E                                                  | TORNOS                                   | SAS 36                     | zaciskowa / clamping        | 56          | 72,4        | 139       | 15°                | M52 x 1,5L           | 36                            | 30                                 | 24                             | 2           |
| 9251E                                                  | TORNOS                                   | AS 14                      | podająca / feed finger      | 17,9        | 17,5        | 70        |                    | M16 x 0,75           | 14                            | 11                                 | 9                              | 3           |
| 9251ER                                                 | TORNOS                                   | AS 14                      | podająca / feed finger      | 18,3        | -           | 70        |                    | M17 x 0,75           | 15                            | 12                                 | 10                             | 3           |
| 9265E                                                  | TORNOS                                   | SAS 16                     | podająca / feed finger      | 22,8        | 20,5        | 98        |                    | M20 x 0,75           | 16                            | 13                                 | 10                             | 3           |
| 9264E                                                  | TORNOS                                   | BS 22                      | podająca / feed finger      | 29,7        | -           | 116       |                    | M27 x 1              | 22                            | 18                                 | 14                             | 3           |
| 9266E                                                  | TORNOS                                   | BS 20                      | podająca / feed finger      | 27,7        | 25,3        | 116       |                    | M25 x 1              | 21                            | 17                                 | 14                             | 3           |
| 9266ER                                                 | TORNOS                                   | BS 20                      | podająca / feed finger      | 27,7        | 25,3        | 116       |                    | M26 x 1              | 23                            | 19                                 | 15                             | 3           |
| 9258ET                                                 | TORNOS                                   | MULTI DECO 20              | podająca / feed finger      | 25          | -           | 90        |                    | M24 x 1              | 20                            | 16                                 | 13                             | 3           |
| 9282ET                                                 | TORNOS                                   | MULTI DECO 26              | podająca / feed finger      | 37          | -           | 118       |                    | M33 x 1,5            | 26                            | 21                                 | 17                             | 3           |
| 9333E                                                  | TORNOS                                   | SAS 36                     | podająca / feed finger      | 44          | -           | 136       |                    | M42 x 1,5L           | 36                            | 30                                 | 24                             | 3           |
| 9001PU                                                 | TORNOS                                   | AS 14, SAS 16              | przechwyty / pick up        | 16          | 21          | 66        | 16°                | M14 x 0,75           | 16                            | 13                                 | 10                             |             |
| 9019PU                                                 | TORNOS                                   | BS 22, BS 20               | przechwyty / pick up        | 25          | 35          | 77        | 16°                | M22 x 1              | 22                            | 18                                 | 14                             |             |
| 9012TPU                                                | TORNOS                                   | MULTI DECO 20              | przechwyty / pick up        | 28          | 32          | 73        | 8°                 | -                    | 24                            | 19                                 | 16                             |             |
| 9039TPU                                                | TORNOS                                   | MULTI DECO 26              | przechwyty / pick up        | 35,5        | 40          | 80        | 8°                 | -                    | 32                            | 27                                 | 21                             |             |
| 171E                                                   | TORNOS                                   | SAS 36                     | przechwyty / pick up        | 42          | 55          | 94        | 15°                | -                    | 36                            | 30                                 | 24                             |             |
| 9038S                                                  | SKODA                                    | SAY 6 x 25                 | zaciskowa / clamping        | 42          | 52          | 130       | 15°                | M39 x 1,5            |                               |                                    |                                | 1           |
| 9041S                                                  | SKODA                                    | DAM 4 x 25                 | zaciskowa / clamping        | 48          | 63          | 115       | 15°                | M42 x 1,5L           |                               |                                    |                                | 1           |
| 9068S                                                  | SKODA                                    | DAM 6 x 32, DAM 6 x 33     | zaciskowa / clamping        | 53          | 69,3        | 130       | 15°                | M48 x 1,5L           |                               |                                    |                                | 1           |
| 9090S                                                  | SKODA                                    | AN 6 x 40, SAY 6 x 42      | zaciskowa / clamping        | 60          | 77,8        | 170       | 15°                | M56 x 1,5            |                               |                                    |                                | 1           |
| 9108S                                                  | SKODA                                    | DAM 6 x 40                 | zaciskowa / clamping        | 62          | 82,5        | 180       | 15°                | M58 x 1,0L           |                               |                                    |                                | 1           |
| 9152S                                                  | SKODA                                    | DAM 6 x 50, DAM 6 x 42     | zaciskowa / clamping        | 75          | 97,8        | 178       | 15°                | M68 x 1,5L           |                               |                                    |                                | 1           |
| 9177S                                                  | SKODA                                    | DAM 6 x 63                 | zaciskowa / clamping        | 90          | 106         | 180       | 15°                | M85 x 2,0L           |                               |                                    |                                | 1           |
| 9201S                                                  | SKODA                                    | DAM 6 x 80                 | zaciskowa / clamping        | 109         | 138,3       | 232       | 15°                | M102 x 1,5L          |                               |                                    |                                | 1           |
| 9221S                                                  | SKODA                                    | DAM 6 x 100                | zaciskowa / clamping        | 135         | 155         | 280       | 15°                | M125 x 1,5L          |                               |                                    |                                | 1           |
| 9273S                                                  | SKODA                                    | AN 6 x 25                  | podająca / feed finger      | 31,5        | 31,6        | 115       |                    | M30 x 1L             |                               |                                    |                                | 3           |
| 9273S                                                  | SKODA                                    | SAY 6 x 25                 | podająca / feed finger      | 31,5        | 31,6        | 115       |                    | M30 x 1L             |                               |                                    |                                | 3           |
| 9283S                                                  | SKODA                                    | DAM 4 x 25                 | podająca / feed finger      | 38          | 32          | 120       |                    | M32 x 1,5L           |                               |                                    |                                | 3           |
| 9328S                                                  | SKODA                                    | DAM 6 x 32, DAM 6 x 33     | podająca / feed finger      | 43          | 39,6        | 132       |                    | M40 x 1,5L           |                               |                                    |                                | 3           |
| 9240S                                                  | SKODA                                    | AN 6 x 40, SAY 6 x 42      | podająca / feed finger      | 49,5        | 45          | 142       |                    | M40 x 1,5L           |                               |                                    |                                | 3           |

# TULEJE MOCUJĄCE

## COLLETS FOR MULTI-SPINDLE LATHES

### Tuleje zaciskowe do automatów wielowrzecionowych

Collets for multi-spindle lathes

Spannzangen für Mehrspindelautomaten

Цанги TZn для автоматов одно- и многошпиндельных

9000E

Zakres mocowania / Clamping range

| Kod produktu<br>Order Nr.<br>Bestell-Nr.<br>Код товара | Producent automatu<br>Lathe Manufacturer | Typ automatu<br>Type lathe | Typ tulei<br>Type of collet | ø d<br>(mm) | ø D<br>(mm) | L<br>(mm) | α°<br>Kąt<br>Angle | G<br>Gwint<br>Thread | R<br>Okrągły<br>Round<br>(mm) | S<br>Sześciokąt<br>Hexagon<br>(mm) | K<br>Kwadrat<br>Square<br>(mm) | Rys<br>Draw |
|--------------------------------------------------------|------------------------------------------|----------------------------|-----------------------------|-------------|-------------|-----------|--------------------|----------------------|-------------------------------|------------------------------------|--------------------------------|-------------|
| 9365S                                                  | SKODA                                    | DAM 6 x 40                 | podająca / feed finger      | 55          | 50          | 170       |                    | M48 x 1,5L           |                               |                                    |                                | 3           |
| 9406S                                                  | SKODA                                    | DAM 6 x 50, DAM 6 x 42     | podająca / feed finger      | 64          | 57          | 180       |                    | M52 x 1,5L           |                               |                                    |                                | 3           |
| 9449S                                                  | SKODA                                    | DAM 6 x 63                 | podająca / feed finger      | 78          | 72          | 176       |                    | M72 x 1,5L           |                               |                                    |                                | 3           |
| 9476S                                                  | SKODA                                    | DAM 6 x 80                 | podająca / feed finger      | 96          | 91          | 221       |                    | M92 x 1,5L           |                               |                                    |                                | 3           |
| 9498S                                                  | SKODA                                    | DAM 6 x 100                | podająca / feed finger      | 120         | 114         | 280       |                    | M110 x 1,5L          |                               |                                    |                                | 3           |
| 9014E                                                  | WICKMAN                                  | 5/8"                       | zaciskowa / clamping        | 29,4        | 38,1        | 92        | 15°                | M26,21 x 24fL        | 20                            | 16                                 | 13                             | 1           |
| 9034E                                                  | WICKMAN                                  | 1"                         | zaciskowa / clamping        | 41,3        | 54,4        | 131,7     | 15°                | M37,70 x 24fL        | 26                            | 21                                 | 17                             | 1           |
| W328S                                                  | WICKMAN                                  | 32/8                       | zaciskowa / clamping        | 50,71       | 63,5        | 109,5     | 15°                | M46,04 x 18f"        | 40                            | 33                                 | 27                             | 1           |
| 9072E                                                  | WICKMAN                                  | 1" 3/8                     | zaciskowa / clamping        | 55,5        | 66,8        | 117,5     | 15°                | M50,87 x 22fL        | 43                            | 36                                 | 29                             | 1           |
| 9111E                                                  | WICKMAN                                  | 1" 3/4                     | zaciskowa / clamping        | 64,2        | 78,7        | 127       | 15°                | M60,40 x 16f"        | 52                            | 44                                 | 35                             | 1           |
| W508S                                                  | WICKMAN                                  | 50/8                       | zaciskowa / clamping        | 70          | 84          | 127       | 15°                | M66 x 150            | 58                            | 49                                 | 40                             | 1           |
| 9151E                                                  | WICKMAN                                  | 2" 1/4 - 5                 | zaciskowa / clamping        | 77,72       | 89          | 152,4     | 15°                | M73,60 x 16fL        | 65                            | 55                                 | 45                             | 1           |
| 9145E                                                  | WICKMAN                                  | 2" 1/4 - 6                 | zaciskowa / clamping        | 76,89       | 95,5        | 181       | 15°                | M72,50 x 22fL        | 65                            | 55                                 | 45                             | 1           |
| 9181E                                                  | WICKMAN                                  | 2" 5/8                     | zaciskowa / clamping        | 92,11       | 111,2       | 165,1     | 15°                | M85,90 x 18fL        | 79                            | 67                                 | 55                             | 1           |
| 9212E                                                  | WICKMAN                                  | 3" 1/2                     | zaciskowa / clamping        | 111,12      | 134,9       | 165,1     | 15°                | M106,50 x 18fL       | 98                            | 94                                 | 68                             | 1           |
| 9260E                                                  | WICKMAN                                  | 5/8"                       | podająca / feed finger      | 21,6        |             | 96        |                    | M19,53 x 24fL        | 15                            | 12                                 | 10                             | 3           |
| 9276E                                                  | WICKMAN                                  | 1"                         | podająca / feed finger      | 31,9        |             | 133       |                    | M30,07 x 24fL        | 25                            | 20                                 | 16                             | 3           |
| W328A                                                  | WICKMAN                                  | 32/8                       | podająca / feed finger      | 39,3        |             | 120,6     |                    | M36,5 x 24f"         | 32                            | 27                                 | 21                             | 3           |
| 9318E                                                  | WICKMAN                                  | 1" 3/8                     | podająca / feed finger      | 42,8        |             | 117,5     |                    | M40,5 x 22fL         | 36                            | 30                                 | 24                             | 3           |
| 9362E                                                  | WICKMAN                                  | 1" 3/4                     | podająca / feed finger      | 52,3        |             | 127       |                    | M50 x 22fL           | 44                            | 37                                 | 30                             | 3           |
| W508A                                                  | WICKMAN                                  | 50/8                       | podająca / feed finger      | 57,9        |             | 127       |                    | M55 x 100L           | 50                            | 42                                 | 34                             | 3           |
| 9415E                                                  | WICKMAN                                  | 2" 1/4 - 5                 | podająca / feed finger      | 65,1        |             | 140       |                    | M62,7 x 22fL         | 57                            | 48                                 | 39                             | 3           |
| 9409E                                                  | WICKMAN                                  | 2" 1/4 - 6                 | podająca / feed finger      | 65,1        |             | 171,5     |                    | M62,7 x 22fL         | 56                            | 47                                 | 38                             | 3           |
| 9445E                                                  | WICKMAN                                  | 2" 5/8                     | podająca / feed finger      | 76,6        |             | 177,8     |                    | M73 x 24fL           | 66                            | 56                                 | 45                             | 3           |
| 9478E                                                  | WICKMAN                                  | 3" 1/2                     | podająca / feed finger      | 98,55       |             | 171,45    |                    | M93,6 x 24fL         | 88                            | 75                                 | 61                             | 3           |
| 9014PU                                                 | WICKMAN                                  | 5/8"                       | przechwyty / pick up        | 19,04       | 36,2        | 55,5      | 15°                |                      | 16                            | 13                                 | 10                             |             |
| 9034PU                                                 | WICKMAN                                  | 1"                         | przechwyty / pick up        | 25,4        | 38,1        | 94        | 15°                |                      | 22                            | 18                                 | 14                             |             |
| W328PU                                                 | WICKMAN                                  | 32/8"                      | przechwyty / pick up        | 31,23       | 46          | 94        | 15°                |                      | 28                            | 23                                 | 19                             |             |
| 9072PU                                                 | WICKMAN                                  | 1" 3/8, 1" 3/4             | przechwyty / pick up        | 39,67       | 65          | 121       | 15°                |                      | 38                            | 32                                 | 26                             |             |
| 9145PU                                                 | WICKMAN                                  | 2" 1/4                     | przechwyty / pick up        | 46,2        | 77,8        | 143       | 15°                |                      | 44                            | 37                                 | 30                             |             |



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## COLLETS FOR MULTI-SPINDLE LATHES

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Bechler                   | A10                           | 117E (F14 76-98)                    |                                |                                     |                                                          |
| Bechler                   | A7                            | 111E (F10 76-1178)                  |                                |                                     |                                                          |
| Bechler                   | AE10                          | 117E (F14 76-98)                    |                                |                                     |                                                          |
| Bechler                   | AE7                           | 111E (F10 76-1178)                  |                                |                                     |                                                          |
| Bechler                   | AR10                          | 117E (F14 76-98)                    |                                |                                     |                                                          |
| Bechler                   | B12                           | 127E                                |                                |                                     |                                                          |
| Bechler                   | B16                           | 139E                                |                                |                                     |                                                          |
| Bechler                   | B20                           | 146E                                |                                |                                     |                                                          |
| Bechler                   | BR20                          | 146E                                |                                |                                     |                                                          |
| Bechler                   | ENC74/75                      | 116E (F13 76-357)                   |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 20                        | 162E (F35 76-67)                    |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 20                        | TZn-0012                            |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 20                        | TZnb-0032                           |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 25                        | 162E (F35 76-67)                    |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 25                        | TZn-0012                            |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 25                        | TZnb-0032                           |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 40                        | 162E (F35 76-67)                    |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 40                        | 173E (F48 76-81)                    |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 40                        | TZn-0012                            |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATA 40                        | Tzna-0052                           |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATB 40                        | 162E (F35 76-67)                    |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATB 40                        | 173E (F48 76-81)                    |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATB 40                        | TZn-0012                            |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATB 40                        | Tzna-0052                           |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATL 40                        | 173E (F48 76-81)                    |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATL 40                        | TZn-0012                            |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | ATL 40                        | Tzna-0052                           |                                |                                     |                                                          |
| CEGIELSKI - Poznań        | HR 32                         | TZn-0042                            |                                |                                     |                                                          |
| Citizen - Cincom          | A 20                          | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | A 20 VII GBL                  | Draw-in 367E                        |                                | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | A 32                          | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Citizen - Cincom          | B 12                          | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Citizen - Cincom          | B 20                          | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | B/F-12                        | 1212E (F16 76-1076)                 |                                |                                     |                                                          |
| Citizen - Cincom          | C 12                          | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Citizen - Cincom          | C 16                          | 138E (F20 76-87)                    | F605 (B238)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Citizen - Cincom          | C 32                          | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Citizen - Cincom          | D 10                          | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Citizen - Cincom          | D 16                          | 145E (F25 76-64)                    | F605 (B238)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | D/E/F/G/L/M-16                | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Citizen - Cincom          | D/F/G/L-10                    | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Citizen - Cincom          | E 10                          | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Citizen - Cincom          | E 16                          | 145E (F25 76-64)                    | F605 (B238)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | E 20                          | 145E (F25 76-64)                    |                                | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | E 25                          | 157E (F30 76-63)                    | T227 (B227)                    | 157E (F30 76-63)                    |                                                          |
| Citizen - Cincom          | E 32                          | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Citizen - Cincom          | E 32J                         | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Citizen - Cincom          | E/F/L/M-20                    | 145E (F25 76-64)                    |                                |                                     |                                                          |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Citizen - Cincom          | E/F/L-25                      | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Citizen - Cincom          | E/G-32                        | 1536E (F76-740)                     |                                |                                     |                                                          |
| Citizen - Cincom          | F 10                          | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Citizen - Cincom          | F 12                          | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Citizen - Cincom          | F 16                          | 145E (F25 76-64)                    | F605 (B238)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | F 20                          | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | F 25                          | 157E (F30 76-63)                    | T227 (B227)                    | 157E (F30 76-63)                    |                                                          |
| Citizen - Cincom          | F 32                          | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Citizen - Cincom          | G 16                          | 145E (F25 76-64)                    | F605 (B238)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | J                             | 145E (F25 76-64)                    | F605 (B238)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | K 12                          | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Citizen - Cincom          | K 16                          | 138E (F20 76-87)                    | F605 (B238)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Citizen - Cincom          | L 10                          | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Citizen - Cincom          | L 10 WATCH                    | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Citizen - Cincom          | L 12                          | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Citizen - Cincom          | L 16                          | 145E (F25 76-64)                    | F605 (B238)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | L 20                          | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | L 25                          | 157E (F30 76-63)                    | T227 (B227)                    | 157E (F30 76-63)                    |                                                          |
| Citizen - Cincom          | L 32                          | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Citizen - Cincom          | M 12                          | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Citizen - Cincom          | M 16                          | 138E (F20 76-87)                    | F605 (B238)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Citizen - Cincom          | M 20                          | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Citizen - Cincom          | M 32                          | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Citizen - Cincom          | MSL 12                        | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Citizen - Cincom          | R 04                          | 101E (F8 76-577)                    | I351 (J3)                      |                                     |                                                          |
| Citizen - Cincom          | R 07                          | 120E (F15 76-580)                   | F3001 (J4)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Citizen - Cincom          | VNC32                         | 1536E (F76-740)                     |                                |                                     |                                                          |
| Dar                       | 12.5                          | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Dar                       | 18                            | 148E (F28 76-93)                    |                                |                                     |                                                          |
| Dar                       | 24                            | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Doosan                    | Puma ST 20 G                  | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Doosan                    | Puma ST 32 G                  | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Ergomat                   | A15                           | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Ergomat                   | A15E                          | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Ergomat                   | A25                           | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Ergomat                   | A25E                          | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Ergomat                   | TB30                          | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Ergomat                   | TB42                          | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Ergomat                   | TB42E                         | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Ergomat                   | TB60                          | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Ergomat                   | TB60E                         | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Ergomat                   | TBA30                         | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Ergomat                   | TBA42                         | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Ergomat                   | TBA60                         | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Ergomat                   | TBC30                         | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Ergomat                   | TBC42                         | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Ergomat                   | TBC60                         | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Ergomat                   | TD16                          | 140E (F22 76-71)                    |                                |                                     |                                                          |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Ergomat                   | TD26                          | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Ergomat                   | TD36                          | 171E (F42 76-99)                    |                                |                                     |                                                          |
| Ergomat                   | TDA16                         | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Ergomat                   | TDA26                         | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Ergomat                   | TDA36                         | 171E (F42 76-99)                    |                                |                                     |                                                          |
| Ergomat                   | THR26                         | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Ergomat                   | TNG42                         | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Fato - Wrocław            | APA-10M                       | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | APA-10M                       | TZn-0008                            |                                |                                     |                                                          |
| Fato - Wrocław            | APA-16M                       | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | APA-16M                       | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Fato - Wrocław            | APA-16M                       | TZn-0008                            |                                |                                     |                                                          |
| Fato - Wrocław            | APA-22M                       | TZn-0025                            |                                |                                     |                                                          |
| Fato - Wrocław            | APA-25M                       | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | APA-25M                       | 143E (F25 76-581)                   |                                |                                     |                                                          |
| Fato - Wrocław            | APA-25M                       | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Fato - Wrocław            | APA-42M                       | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | APA-42M                       | 143E (F25 76-581)                   |                                |                                     |                                                          |
| Fato - Wrocław            | APA-42M                       | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Fato - Wrocław            | APA-42M                       | TZn-0025                            |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-10                        | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-16                        | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-16                        | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-16/25                     | TZn-0008                            |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-25                        | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-25                        | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-4                         | TZn-0004,5                          |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-4                         | TZn-0008                            |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-7                         | TZn-0010                            |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-7/10                      | TZn-0007                            |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-7/10                      | TZn-0008                            |                                |                                     |                                                          |
| Fato - Wrocław            | AWA-7/10                      | TZn-0012                            |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U10                        | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U10                        | TZn-0008                            |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U12                        | 1299E                               |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U16                        | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U16                        | 143E (F25 76-581)                   |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U16                        | Tzna-0022                           |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U20                        | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U20                        | 143E (F25 76-581)                   |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U20                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U20                        | TZn-0025                            |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U4                         | TZn-0004,5                          |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U4                         | TZn-0008                            |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U5                         | TZn-0004,5                          |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U5                         | TZn-0008                            |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U7                         | TZn-0007                            |                                |                                     |                                                          |
| Fato - Wrocław            | BP-U7                         | TZn-0010                            |                                |                                     |                                                          |

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|---------------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Fato - Wrocław                  | BP-U8                         | 121E (F15 76-358)                   |                                |                                     |                                                          |
| Fato - Wrocław                  | BP-U8                         | TZn-0010                            |                                |                                     |                                                          |
| Gauthier                        | GLD 12                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Gauthier                        | GM 100/127                    | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Gauthier                        | GM 12                         | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Gauthier                        | GM 20                         | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Gauthier                        | GM 25                         | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Gauthier                        | GM 75                         | 118E                                |                                |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AA 48                         | 9132E (TZw-0070)                    | 9368E (TZp-0057)               |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AA 67                         | 9178E (TZw-0090)                    | 9447E (TZp-0077,5)             |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 100                        | 9239E                               | 9483E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 12                         | 9013E                               | 9259E                          | Pick up for Gildemeister AS 12      |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 16/20                      | 9012E (TZgb-0034)                   | 9258E (TZp-0025)               | Pick up 9012 EG 3560 E              |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 20                         | 9017E                               | 9288E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 25                         | 9045E (TZw-0045)                    | 9287E (TZp-0033)               | Pick up 9045 EG 3655 E              |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 32                         | 9069E (TZw-0053)                    | 9316E (TZp-0040)               |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 48                         | 9132E (TZw-0070)                    | 9368E (TZp-0057)               |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 63                         | 9177E                               | 9444E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 67                         | 9178E (TZw-0090)                    | 9447E (TZp-0077,5)             |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AS 82                         | 9209E                               | 9475E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AV 32                         | 9069E                               |                                |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AV 48                         | 9132E (TZw-0070)                    | 9368E (TZp-0057)               |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AV 63                         | 9177E                               | 9444E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AV 67                         | 9178E (TZw-0090)                    | 9447E (TZp-0077,5)             |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | AV 82                         | 9209E                               | 9475E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GM 20                         | 9012E (TZgb-0034)                   | 9258E (TZp-0025)               | Pick up 9012 EG 3560 E              |                                                          |
| Gildemeister (Wielowrzecionowy) | GM 26 AC                      | 9611S                               | 9612S                          | Pick up 9613 S                      |                                                          |
| Gildemeister (Wielowrzecionowy) | GM 326                        | 9069E                               | 9336E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GM 35-68                      | 9069E                               |                                |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GM 426                        | 9115E                               | 9374E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GMC 20 ISM                    | 9017E                               | 9288E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GMC 35 V.35                   | 9069E                               |                                |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GS 20                         | 9012E (TZgb-0034)                   | 9258E (TZp-0025)               | Pick up 9012 EG 3560 E              |                                                          |
| Gildemeister (Wielowrzecionowy) | GS 20-6 V25                   | 9017E                               | 9288E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GS 25 V.32                    | 9046E                               |                                |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GS 32                         | 9069E                               |                                |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GS 35                         | 9081E                               | 9333E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GS 36                         | 9081E                               | 9333E                          |                                     |                                                          |
| Gildemeister (Wielowrzecionowy) | GS 42                         | 9081E                               | 9333E                          |                                     |                                                          |
| Gildemeister DMG                | GD 16                         | 136E (F20 76-201)                   | F391 (J7AR)                    | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Gildemeister DMG                | GD 32                         | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Gildemeister DMG                | GLD 12                        | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Gildemeister DMG                | GLD 12                        | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Gildemeister DMG                | GLD 16                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Gildemeister DMG                | GLD 16/20                     | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Gildemeister DMG                | GLD 20                        | 145E (F25 76-64)                    | I357 (B260)                    | Pick up SY GL 20                    |                                                          |
| Gildemeister DMG                | GLD 20                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Gildemeister DMG                | GLD 25                        | 1446E (F76-101)                     |                                |                                     |                                                          |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Gildemeister DMG          | GLD 25 4 osie                 | 1446E (F30 76-101)                  | T227 (B227)                    | 1446E (F30 76-101)                  | 1446E LONG/TAP (F30 76-101)                              |
| Gildemeister DMG          | GLD 25 5 osie                 | 1446E (F30 76-101)                  | T227 (B227)                    | Pick up SY GL 20                    |                                                          |
| Gildemeister DMG          | GLD 25L                       | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Gildemeister DMG          | GS 20-L                       | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Gildemeister DMG          | GS 25-L                       | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Gildemeister DMG          | SPEED 125 127 linear < ø 12,0 | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Gildemeister DMG          | SPEED 208 2011 linear         | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Gildemeister DMG          | SPEED 3210 linear             | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Hanwha                    | HANEX 11                      | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Hanwha                    | HANEX 17                      | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Hanwha                    | HANEX 20                      | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Hanwha                    | HANEX 25                      | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Hanwha                    | ML 18-G                       | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Hanwha                    | S20                           | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Hanwha                    | SL 12                         | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Hanwha                    | SL 12 H                       | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Hanwha                    | SL 12 S                       | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Hanwha                    | SL 16 H                       | 140E (F22 76-71)                    | F391 (J7AR)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Hanwha                    | SL 16 S                       | 140E (F22 76-71)                    | F391 (J7AR)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Hanwha                    | SL 20 S                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Hanwha                    | SL 26 H                       | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Hanwha                    | SL 26 HP II                   | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Hanwha                    | SL 26 S                       | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Hanwha                    | SL 32 HE                      | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Hanwha                    | SL 32 HPD                     | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Hanwha                    | SL 32 S                       | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Hanwha                    | SL 32HP II                    | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Hanwha                    | SL 35 HP                      | 171E (F42 76-99)                    | T245 (B250)                    | 171E (F42 76-99)                    | 171E LONG/TAP (F42 76-99)                                |
| Hanwha                    | ST 220                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Hanwha                    | ST 225                        | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Hanwha                    | STL 32 H                      | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Hanwha                    | STL 38                        | 173E (F48 76-81)                    | T245 (B250)                    | 171E (F42 76-99)                    | 171E LONG/TAP (F42 76-99)                                |
| Hanwha                    | XD 07                         | 109E (F10 76-86)                    | F3001 (J4)                     | 109E (F10 76-86)                    | 109E LONG/TAP (F10 76-86)                                |
| Hanwha                    | XD 12 H                       | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Hanwha                    | XD 16 H                       | 140E (F22 76-71)                    | F391 (J7AR)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Hanwha                    | XD 20 H                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Hanwha                    | XD 20 M                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Hanwha                    | XD 20 N                       | 145E (F25 76-64)                    |                                | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Hanwha                    | XD 20 V                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Hanwha                    | XD 26 H                       | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Hanwha                    | XD 26 J                       | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Hanwha                    | XD 32 H                       | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Hanwha                    | XD 38                         | 173E (F48 76-81)                    | T245 (B250)                    | 173E (F48 76-81)                    | 173E LONG/TAP (F48 76-81)                                |
| Hanwha                    | XDI 20                        | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Hanwha                    | XP 12 S                       | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Hanwha                    | XP 16 S                       | 140E (F22 76-71)                    | F391 (J7AR)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Hanwha                    | XP 20 S                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Hanwha                    | XP 26 S                       | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Hanwha                    | XP 32 S                       | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Index-Steinhäuser         | 12                            | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 18                            | 148E (F28 76-93)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 20                            | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Index-Steinhäuser         | 24                            | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 25                            | 148E (F28 76-93)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 25                            | 162E (F35 76-67)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 25#                           | 162E (F35 76-67)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 30#                           | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 36                            | 171E (F42 76-99)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 36                            | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 36#                           | 171E (F42 76-99)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 42                            | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 52                            | 177E (F58)                          |                                |                                     |                                                          |
| Index-Steinhäuser         | 52                            | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 60                            | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | 80                            | 193E (F90)                          |                                |                                     |                                                          |
| Index-Steinhäuser         | B30                           | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | B42                           | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | B60                           | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | B60 36mm                      | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | C19                           | 148E (F28 76-93)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | C29                           | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | D12                           | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | D12                           | 143E (F25 76-581)                   |                                |                                     |                                                          |
| Index-Steinhäuser         | D20                           | 148E (F28 76-93)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | DG12                          | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | DG20                          | 148E (F28 76-93)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | E42/ER                        | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | ER25                          | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | ER26                          | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | ER42                          | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | G65                           | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | Ge42                          | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | GS30                          | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Index-Steinhäuser         | KS 20                         | 9033E                               | 9273E                          |                                     |                                                          |
| Index-Steinhäuser         | KS 22                         | 9033E                               | 9273E                          |                                     |                                                          |
| Index-Steinhäuser         | KS 25                         | 9039E                               | 9282E                          | Pick up 9039 ESY GZI 25             |                                                          |
| Index-Steinhäuser         | KS 32                         | 9070E                               | 9319E                          | Pick up 9108 EG                     |                                                          |
| Index-Steinhäuser         | KS 42                         | 9108E                               | 9364E                          | Pick up 9108 EG                     |                                                          |
| Index-Steinhäuser         | KS 50                         | 9133E                               | 9402E                          | Pick up 9108 EG                     |                                                          |
| Index-Steinhäuser         | MS 16                         | 9007E                               | 9255E                          |                                     |                                                          |
| Index-Steinhäuser         | MS 25                         | 9039E                               | 9282E                          | Pick up 9039 ESY GZI 25             |                                                          |
| Index-Steinhäuser         | ON                            | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Index-Steinhäuser         | ON-16                         | 143E (F25 76-581)                   |                                |                                     |                                                          |
| Index-Steinhäuser         | OR                            | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Index-Steinhäuser         | OR-16                         | 143E (F25 76-581)                   |                                |                                     |                                                          |
| Index-Steinhäuser         | RN 12                         | 140E (F22 76-71)                    |                                |                                     |                                                          |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Maier                     | ML 12 D                       | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Maier                     | ML 12 S                       | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Maier                     | ML 12SKII                     | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Maier                     | ML 12G                        | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Maier                     | ML 12S                        | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Maier                     | ML 18 H                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Maier                     | ML 18 S                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Maier                     | ML 18H                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Maier                     | ML 18S                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Maier                     | ML 20 D                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Maier                     | ML 20C                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Maier                     | ML 20D                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Maier                     | ML 26 D                       | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Maier                     | ML 26 H                       | 157E (F30 76-63)                    | T227 (B227)                    | 157E (F30 76-63)                    |                                                          |
| Maier                     | ML 26 S                       | 157E (F30 76-63)                    | T227 (B227)                    | 157E (F30 76-63)                    |                                                          |
| Maier                     | ML 26C                        | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Maier                     | ML 26D                        | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Maier                     | ML 26H                        | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Maier                     | ML 26S                        | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Maier                     | ML 32                         | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Maier                     | ML 32D                        | 1536E (F76-740)                     |                                |                                     |                                                          |
| Maier                     | ML 36                         | 171E (F42 76-99)                    |                                | 171E (F42 76-99)                    | 171E LONG/TAP (F42 76-99)                                |
| Maier                     | ML 36                         | 171E (F42 76-99)                    |                                |                                     |                                                          |
| Maier                     | ML 7                          | 109E (F10 76-86)                    | F3001 (J4)                     | 109E (F10 76-86)                    | 109E LONG/TAP (F10 76-86)                                |
| Maier                     | ML 7                          | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Manurhin KMX              | CL 32                         | 171E (F42 76-99)                    | T229 (J9)                      | 171E (F42 76-99)                    | 171E LONG/TAP (F42 76-99)                                |
| Manurhin KMX              | Compact                       | 136E (F20 76-201)                   | F605 (B238)                    | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Manurhin KMX              | DECOTUM 16                    | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Manurhin KMX              | First 223-326 C               | 136E (F20 76-201)                   | I354 1 (J7A)                   | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Manurhin KMX              | First 223-326 C               | 161E (F32 76-221)                   | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | First 223-326 C               | 164E (F38 76-72)                    | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Manurhin KMX              | KMX                           | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Manurhin KMX              | KMX 20                        | 145E (F25 76-64)                    | I354 1 (J7A)                   | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | KMX 20                        | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | KMX 20                        | 161E (F32 76-221)                   | I354 1 (J7A)                   | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | KMX 20                        | 161E (F32 76-221)                   | I357 (B260)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Manurhin KMX              | KMX 26                        | 161E (F32 76-221)                   | T227 (B227)                    | Pick up SYF 31                      |                                                          |
| Manurhin KMX              | KMX 413                       | 136E (F20 76-201)                   | I354 1 (J7A)                   | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Manurhin KMX              | KMX 432, 632                  | 164E (F38 76-72)                    | T229 (J9)                      | 164E (F38 76-72)                    |                                                          |
| Manurhin KMX              | KMX 532 Trend                 | 164E (F38 76-72)                    | T229 (J9)                      | 164E (F38 76-72)                    |                                                          |
| Manurhin KMX              | KMX 632 DUO                   | 164E (F38 76-72)                    | T229 (J9)                      | 164E (F38 76-72)                    |                                                          |
| Manurhin KMX              | KMX 732 EVO                   | 164E (F38 76-72)                    | T229 (J9)                      | 164E (F38 76-72)                    |                                                          |
| Manurhin KMX              | KMX20                         | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Manurhin KMX              | KMX26                         | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Manurhin KMX              | KMX326C                       | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Manurhin KMX              | KMX413                        | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Manurhin KMX              | Mirabel PM 32                 | 145E (F25 76-64)                    | I354 1 (J7A)                   | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | Mirabel PM 32                 | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |



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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Manurhin KMX              | Mirabel PM 32                 | 171E (F42 76-99)                    | T229 (J9)                      | 171E (F42 76-99)                    | 171E LONG/TAP (F42 76-99)                                |
| Manurhin KMX              | MIRABEL PM32                  | 164E (F38 76-72)                    |                                |                                     |                                                          |
| Manurhin KMX              | Option KMX 413                | 116E (F13 76-357)                   | I353 (J6R)                     | 116E (F13 76-357)                   | 116E LONG/TAP (F13 76-357)                               |
| Manurhin KMX              | Optionen KMX432,532,632       | 145E (F25 76-64)                    | I354 1 (J7A)                   | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | Optionen KMX432,532,632       | 1536E (F37 76-740)                  |                                | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Manurhin KMX              | Optionen KMX432,532,632       | 171E (F42 76-99)                    | T245 (B250)                    | 171E (F42 76-99)                    | 171E LONG/TAP (F42 76-99)                                |
| Manurhin KMX              | PF 12/16                      | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Manurhin KMX              | PF-36/42                      | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Manurhin KMX              | Swing                         | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Manurhin KMX              | Swing 13                      | 136E (F20 76-201)                   | F853 (B212A)                   | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Manurhin KMX              | Swing 20                      | 161E (F32 76-221)                   | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | Swing 26                      | 161E (F32 76-221)                   | T227 (B227)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | Swing 26                      | 164E (F38 76-72)                    | T229 (J9)                      | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Manurhin KMX              | Swing 32                      | 171E (F42 76-99)                    | T229 (J9)                      | 171E (F42 76-99)                    | 171E LONG/TAP (F42 76-99)                                |
| Manurhin KMX              | TR 16                         | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Manurhin KMX              | Traminer                      | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Manurhin KMX              | Traminer 13                   | 127E (F18 76-85)                    | F853 (B212A)                   |                                     |                                                          |
| Manurhin KMX              | Traminer 16                   | 138E (F20 76-87)                    | I354 1 (J7A)                   | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Manurhin KMX              | Traminer 20                   | 145E (F25 76-64)                    | I354 1 (J7A)                   | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | Traminer 20                   | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | Twin 13                       | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Manurhin KMX              | Twin 13                       | 136E (F20 76-201)                   | I354 1 (J7A)                   | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Manurhin KMX              | Twin 20                       | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Manurhin KMX              | Twin 20                       | 136E (F20 76-201)                   | I354 1 (J7A)                   | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Manurhin KMX              | Twin 20                       | 161E (F32 76-221)                   | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Manurhin KMX              | XL 36                         | 173E (F48 76-81)                    |                                | 171E (F42 76-99)                    | 171E LONG/TAP (F42 76-99)                                |
| Manurhin KMX              | XL32                          | 171E (F42 76-99)                    |                                |                                     |                                                          |
| Manurhin KMX              | XS32                          | 171E (F42 76-99)                    |                                |                                     |                                                          |
| MAS                       | A12                           | 142E                                |                                |                                     |                                                          |
| MAS                       | A12                           | 143E (F25 76-581)                   |                                |                                     |                                                          |
| MAS                       | A20                           | Tzna-0052                           |                                |                                     |                                                          |
| MAS                       | A20                           | TZnb-0032                           |                                |                                     |                                                          |
| Nexturn                   | SA 12 A                       | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Nexturn                   | SA 18 A                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Nexturn                   | SA 20 D                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Nexturn                   | SA 20 E                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Nexturn                   | SA 26 D                       | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Nexturn                   | SA 26 E                       | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Nexturn                   | SA 32 D                       | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Nexturn                   | SA 32 E                       | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Nexturn                   | SA 38                         | F4492                               | T246 (B246)                    | F4492                               |                                                          |
| Nexturn                   | SA-18                         | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Nexturn                   | SA-20                         | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Nexturn                   | SA-20e                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Nexturn                   | SA-26                         | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Nexturn                   | SA-26e                        | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Nexturn                   | SA-32                         | 1536E (F76-740)                     |                                |                                     |                                                          |
| Petermann                 | 10                            | 123E (F16 76-104)                   |                                |                                     |                                                          |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Petermann                 | 10HS                          | 123E (F16 76-104)                   |                                |                                     |                                                          |
| Petermann                 | 10HSR                         | 1299E                               |                                |                                     |                                                          |
| Petermann                 | 10R                           | 1299E                               |                                |                                     |                                                          |
| Petermann                 | P16                           | Tzna-0022                           |                                |                                     |                                                          |
| Petermann                 | P3                            | TZn-0007                            |                                |                                     |                                                          |
| Petermann                 | P4                            | TZn-0008                            |                                |                                     |                                                          |
| Petermann                 | P7                            | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Petermann                 | P7                            | TZn-0010                            |                                |                                     |                                                          |
| Petermann                 | P7R                           | 121E (F15 76-358)                   |                                |                                     |                                                          |
| Polygym                   | 32B                           | 1536E (F76-740)                     |                                |                                     |                                                          |
| Polygym                   | 32CS                          | 1536E (F76-740)                     |                                |                                     |                                                          |
| Polygym                   | 32CSB                         | 1536E (F76-740)                     |                                |                                     |                                                          |
| Polygym                   | DIAMOND 32                    | 1536E (F76-740)                     |                                |                                     |                                                          |
| Polygym                   | DIAMOND 42                    | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Schütte                   | AD 40                         | 9112E                               | 9372E                          | Pick up 9112 EG-AD                  |                                                          |
| Schütte                   | AF 26                         | 9039E                               | 9282E                          | Pick up 9039 EG-SF 1495 E           |                                                          |
| Schütte                   | AF 32                         | 9070E                               | 9319E                          | Pick up 9070 EG-SF 1700 E           |                                                          |
| Schütte                   | AF 51                         | 9139E                               | 9406E                          | Pick up 9139 EG-SF 1777E            |                                                          |
| Schütte                   | AF 67                         | 9187E                               | 9456E                          | Pick up 9210 EG-SF 1843 E           |                                                          |
| Schütte                   | AF 81                         | 9210E                               | 9474E                          | Pick up 9210 EG-SF 1843 E           |                                                          |
| Schütte                   | AG 20                         | 90076 H                             | 9255E                          | Pick up 35161 HG                    |                                                          |
| Schütte                   | SB 16                         | 9006E                               | 9254E                          |                                     |                                                          |
| Schütte                   | SB 22                         | 9033E                               | 9273E                          |                                     |                                                          |
| Schütte                   | SB 30                         | 9043E                               | 9283E                          |                                     |                                                          |
| Schütte                   | SD 25                         | 9039E                               | 9282E                          | Pick up 9039 EG-SD 3722 E           |                                                          |
| Schütte                   | SD 32                         | 9070E                               | 9319E                          | Pick up 9070 EG-SD 3790 E           |                                                          |
| Schütte                   | SD 50                         | 9139E                               | 9406E                          | Pick up 9139 EG-SD 3863 E           |                                                          |
| Schütte                   | SD 63                         | 9179E                               | 9450E                          | Pick up 9179 EG-SD                  |                                                          |
| Schütte                   | SD 80                         | 9210E                               | 9474E                          | Pick up 9210 EG-SD                  |                                                          |
| Schütte                   | SE 16                         | 9007E                               | 9255E                          | Pick up 9007 EG-SE 3540 E           |                                                          |
| Schütte                   | SE 18                         | 9007E                               | 9255E                          | Pick up 9007 EG-SE 3540 E           |                                                          |
| Schütte                   | SE 25                         | 9039E                               | 9282E                          | Pick up 9039 EG-SD 3722 E           |                                                          |
| Schütte                   | SE 26                         | 9039E                               | 9282E                          | Pick up 9039 EG-SF 1495 E           |                                                          |
| Schütte                   | SF 13                         | 9015E                               | 9261E                          | Pick up 9015 EG                     |                                                          |
| Schütte                   | SF 16                         | 9007E                               | 9255E                          | Pick up 9007 EG-SE 3540 E           |                                                          |
| Schütte                   | SF 20                         | 9016E                               | 9262E                          | Pick up 9016 EG 3607 E              |                                                          |
| Schütte                   | SF 26                         | 9039E                               | 9282E                          | Pick up 9039 EG-SF 1495 E           |                                                          |
| Schütte                   | SF 32                         | 9070E                               | 9319E                          | Pick up 9070 EG-SF 1700 E           |                                                          |
| Schütte                   | SF 40                         | 9112E                               | 9372E                          | Pick up 9070 EG-SF 1700 E           |                                                          |
| Schütte                   | SF 42                         | 9112E                               | 9372E                          | Pick up 9070 EG-SF 1700 E           |                                                          |
| Schütte                   | SF 51                         | 9139E                               | 9406E                          | Pick up 9139 EG-SF 1777E            |                                                          |
| Schütte                   | SF 67                         | 9187E                               | 9456E                          | Pick up 9210 EG-SF 1843 E           |                                                          |
| Schütte                   | SF 81                         | 9210E                               | 9474E                          | Pick up 9210 EG-SF 1843 E           |                                                          |
| Schütte                   | SG 18                         | 90076 H                             | 9255E                          | Pick up 35161 HG                    |                                                          |
| Schütte                   | VB 22                         | 9033E                               | 9273E                          |                                     |                                                          |
| Schütte                   | VB 50                         | 9133E                               | 9402E                          |                                     |                                                          |
| Schütte                   | VD 25                         | 9039E                               | 9282E                          | Pick up 9039 EG-SD 3722 E           |                                                          |
| Schütte                   | VD 32                         | 9070E                               | 9319E                          | Pick up 9070 EG-SD 3790 E           |                                                          |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Schütte                   | VD 50                         | 9139E                               | 9406E                          | Pick up 9139 EG-SD 3863 E           |                                                          |
| Schütte                   | VD 63                         | 9179E                               | 9450E                          | Pick up 9179 EG-SD                  |                                                          |
| Schütte                   | VD 80                         | 9210E                               | 9474E                          | Pick up 9210 EG-SD                  |                                                          |
| Star Micronics            | BR20                          | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Star Micronics            | E32                           | 1536E (F76-740)                     |                                |                                     |                                                          |
| Star Micronics            | ECAS 12                       | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | ECAS 20                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | ECAS 20 T                     | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | ECAS 32 T                     | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | G32                           | 1536E (F76-740)                     |                                |                                     |                                                          |
| Star Micronics            | JNC 10                        | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | JNC 10                        | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Star Micronics            | JNC 16                        | 138E (F20 76-87)                    | I354 (J7AR)                    |                                     |                                                          |
| Star Micronics            | JNC 16                        | 138E (F20 76-87)                    | T221 (B301)                    |                                     |                                                          |
| Star Micronics            | JNC 25                        | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | JNC 25                        | 1536E (F76-740)                     |                                |                                     |                                                          |
| Star Micronics            | JNC 32                        | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | JNC 32                        | 1536E (F76-740)                     |                                |                                     |                                                          |
| Star Micronics            | JNC 32/25                     | 1536E (F76-740)                     |                                |                                     |                                                          |
| Star Micronics            | KJR 16                        | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | KJR 16                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | KJR 25                        | 157E (F30 76-63)                    | T227 (B227)                    | 157E (F30 76-63)                    |                                                          |
| Star Micronics            | KJR 25                        | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Star Micronics            | KNC 16                        | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | KNC 16                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | KNC 16/20                     | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Star Micronics            | KNC 20                        | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | KNC 20                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Star Micronics            | KNC 25                        | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | KNC 25                        | 1536E (F76-740)                     |                                |                                     |                                                          |
| Star Micronics            | KNC 32                        | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | L32                           | 1536E (F76-740)                     |                                |                                     |                                                          |
| Star Micronics            | M32                           | 1536E (F76-740)                     |                                |                                     |                                                          |
| Star Micronics            | RNC 10                        | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | RNC 10                        | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Star Micronics            | RNC 16                        | 138E (F20 76-87)                    | F391 (J7AR)                    |                                     |                                                          |
| Star Micronics            | RNC 16                        | 138E (F20 76-87)                    | T221 (B301)                    |                                     |                                                          |
| Star Micronics            | RNC 16                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | RNC 16 A                      | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SA 1216                       | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SA 16 RC                      | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SA16                          | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | SB 16 Typ C                   | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SB 16 Typ D                   | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SB 16 Typ E                   | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SB 20 C                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SB 20 E                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SCN25                         | 157E (F30 76-63)                    |                                |                                     |                                                          |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Star Micronics            | SE 16                         | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SE16                          | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | SH 12                         | 138E (F20 76-87)                    | T221 (B301)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SH 16                         | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SH 7                          | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | SH16                          | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | SI 12                         | 138E (F20 76-87)                    | F391 (J7AR)                    | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | SI 12 NP                      | 138E (F20 76-87)                    | F391 (J7AR)                    | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | SNC 10                        | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Star Micronics            | SNC 10 DX                     | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | SNC 15                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | SNC 15 DX                     | 138E (F20 76-87)                    | F391 (J7AR)                    |                                     |                                                          |
| Star Micronics            | SNC 15 DX                     | 138E (F20 76-87)                    | T221 (B301)                    |                                     |                                                          |
| Star Micronics            | SNC 25                        | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Star Micronics            | SNC 25 DX                     | 165E 1497E                          | T227 (B227)                    |                                     |                                                          |
| Star Micronics            | SR 10 J                       | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | SR 16                         | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SR 16 R                       | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SR 20                         | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SR 20 J                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SR 20 J Typ N                 | 145E (F25 76-64)                    |                                | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SR 20 R II                    | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SR 20 R III                   | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SR 20 R IV                    | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SR 20 S                       | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SR 32 J                       | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | SR 32 J Typ N                 | 1536E (F37 76-740)                  |                                | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | SR16                          | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | SR20                          | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Star Micronics            | SST 16                        | 138E (F20 76-87)                    | F391 (J7AR)                    |                                     |                                                          |
| Star Micronics            | ST 38                         | 173E (F48 76-81)                    | T248                           | 173E (F48 76-81)                    | 173E LONG/TAP (F48 76-81)                                |
| Star Micronics            | SV 12                         | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | SV 20                         | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SV 20                         | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Star Micronics            | SV 32                         | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | SV 32 JII                     | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | SW 10                         | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Star Micronics            | SW 12                         | 1212E (F16 76-1076)                 | F853 (B212A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Star Micronics            | SW 20                         | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Star Micronics            | SW 7                          | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Star Micronics            | SW 7 - 10                     | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | SW 7 - 7                      | 109E (F10 76-86)                    | F3001 (J4)                     | 109E (F10 76-86)                    | 109E LONG/TAP (F10 76-86)                                |
| Star Micronics            | SW 7 R                        | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | SW 7-10                       | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Star Micronics            | SW 7-7                        | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Star Micronics            | VNC 12                        | 138E (F20 76-87)                    | T221 (B301)                    | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Star Micronics            | VNC 12                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | VNC 16                        | 138E (F20 76-87)                    | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Star Micronics            | VNC 16                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Star Micronics            | VNC 20                        | 145E (F25 76-64)                    | T223 (B261)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Star Micronics            | VNC 20                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Star Micronics            | VNC 32                        | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Star Micronics            | VNL 20                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Strohm                    | M105                          | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Strohm                    | M125                          | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Strohm                    | M205                          | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Strohm                    | M205                          | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Strohm                    | M225                          | TZn-0025                            |                                |                                     |                                                          |
| Strohm                    | M255                          | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Strohm                    | M255                          | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Strohm                    | M45                           | TZn-0008                            |                                |                                     |                                                          |
| Strohm                    | M75                           | TZn-0010                            |                                |                                     |                                                          |
| Tornos                    | DECO 10 ae                    | 109E (F10 76-86)                    | I353 (J6R)                     | 109E (F10 76-86)                    | 109E LONG/TAP (F10 76-86)                                |
| Tornos                    | DECO 10 ae                    | 116E (F13 76-357)                   | I353 (J6R)                     | 116E (F13 76-357)                   | 116E LONG/TAP (F13 76-357)                               |
| Tornos                    | DECO 13 ae                    | 116E (F13 76-357)                   | F605 (B238)                    | 116E (F13 76-357)                   |                                                          |
| Tornos                    | DECO 13 ae                    | 120E (F15 76-580)                   | F605 (B238)                    | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Tornos                    | DECO 13 ae                    | 1212E (F16 76-1076)                 | F605 (B238)                    | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Tornos                    | DECO 13 ae                    | 136E (F20 76-201)                   | F605 (B238)                    | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Tornos                    | DECO 20 ae                    | 136E (F20 76-201)                   | I357 (B260)                    | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Tornos                    | DECO 20 ae                    | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | DECO 20 erweitert             | 1446E (F30 76-101)                  | T227 (B227)                    | 145E (F25 76-64)                    | 1446E LONG/TAP (F30 76-101)                              |
| Tornos                    | DECO 2000-10                  | 116E (F13 76-357)                   |                                |                                     |                                                          |
| Tornos                    | DECO 2000-10                  | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Tornos                    | DECO 2000-13                  | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Tornos                    | DECO 2000-13/16               | 1212E (F16 76-1076)                 |                                |                                     |                                                          |
| Tornos                    | DECO 2000-13/16               | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Tornos                    | DECO 2000-20                  | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tornos                    | DECO 2000-26                  | 1446E (F76-101)                     | T227 (B227)                    | 1446E (F30 76-101)                  | 1446E LONG/TAP (F30 76-101)                              |
| Tornos                    | DECO 2000-32                  | 1536E (F76-740)                     |                                |                                     |                                                          |
| Tornos                    | DECO 2000-7                   | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Tornos                    | DECO 26 ae                    | 1446E (F30 76-101)                  | T227 (B227)                    | 1446E (F30 76-101)                  | 1446E LONG/TAP (F30 76-101)                              |
| Tornos                    | DECO 26 ae                    | 145E (F25 76-64)                    | T227 (B227)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | DECO 26 erweitert             | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Tornos                    | DECO 7                        | 109E (F10 76-86)                    | I352                           | 109E (F10 76-86)                    | 109E LONG/TAP (F10 76-86)                                |
| Tornos                    | DECO 7                        |                                     | F3001 (J4)                     |                                     |                                                          |
| Tornos                    | Delta 124                     | 145E (F25 76-64)                    | TD26                           | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | Delta 125                     | 145E (F25 76-64)                    | TD26                           | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | Delta 204                     | 145E (F25 76-64)                    | TD26                           | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | Delta 205                     | 145E (F25 76-64)                    | TD26                           | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | Delta 385                     | F43 37 511.024                      | T249 (B240)                    | F48 37 511.028                      |                                                          |
| Tornos                    | ENC 16                        | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Tornos                    | ENC 16                        | 136E (F20 76-201)                   | F605 (B238)                    | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Tornos                    | ENC 162                       | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Tornos                    | ENC 164                       | 120E (F15 76-580)                   | I353 (J6R)                     | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Tornos                    | ENC 164                       | 136E (F20 76-201)                   | F605 (B238)                    | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Tornos                    | ENC 164                       | 136E (F20 76-201)                   |                                |                                     |                                                          |

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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Tornos                    | ENC 167                       | 1446E (F30 76-101)                  | F605 (B238)                    | 1446E (F30 76-101)                  | 1446E LONG/TAP (F30 76-101)                              |
| Tornos                    | ENC 167                       | 1446E (F30 76-101)                  | I353 (J6R)                     | 1446E (F30 76-101)                  | 1446E LONG/TAP (F30 76-101)                              |
| Tornos                    | ENC 167                       | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tornos                    | ENC 262-264                   | 1446E (F30 76-101)                  |                                | 1446E (F30 76-101)                  | 1446E LONG/TAP (F30 76-101)                              |
| Tornos                    | ENC 74                        | 116E (F13 76-357)                   |                                |                                     |                                                          |
| Tornos                    | ENC 75                        | 116E (F13 76-357)                   |                                |                                     |                                                          |
| Tornos                    | ENC ENC 74                    | 1446E (F30 76-101)                  |                                | 1446E (F30 76-101)                  | 1446E LONG/TAP (F30 76-101)                              |
| Tornos                    | EvoDECO 16 ae                 | 136E (F20 76-201)                   | F605 (B238)                    | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Tornos                    | Gamma 205                     | 145E (F25 76-64)                    | TD26                           | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | Gamma 206                     | 145E (F25 76-64)                    | TD26                           | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | M10                           | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Tornos                    | M15                           | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Tornos                    | M20                           | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tornos                    | M25                           | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Tornos                    | M4                            | 101E (F8 76-577)                    |                                |                                     |                                                          |
| Tornos                    | M7                            | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Tornos                    | MB32                          | 1536E (F76-740)                     |                                |                                     |                                                          |
| Tornos                    | Micro 7                       | 109E (F10 76-86)                    | F3001 (J4)                     | 109E (F10 76-86)                    | 109E LONG/TAP (F10 76-86)                                |
| Tornos                    | Micro 8                       | Draw-in 321E W15 80-3               |                                | 116E (F13 76-357)                   | 116E LONG/TAP (F13 76-357)                               |
| Tornos                    | MS7                           | 116E (F13 76-357)                   |                                |                                     |                                                          |
| Tornos                    | R10                           | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Tornos                    | R125                          | 1212E (F16 76-1076)                 |                                |                                     |                                                          |
| Tornos                    | R16                           | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Tornos                    | R20                           | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tornos                    | R7                            | TZn-0010                            |                                |                                     |                                                          |
| Tornos                    | RR20                          | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tornos                    | Sigma 20                      | 1446E (F30 76-101)                  | T227 (B227)                    | 1446E (F30 76-101)                  | 1446E LONG/TAP (F30 76-101)                              |
| Tornos                    | Sigma 32                      | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Tornos                    | Sigma 8                       | Draw-in 321E W15 80-3               |                                | 116E (F13 76-357)                   | 116E LONG/TAP (F13 76-357)                               |
| Tornos                    | SwissNano                     | I352                                | 109E (F10 76-86)               |                                     |                                                          |
| Tornos                    | T4                            | 101E (F8 76-577)                    |                                |                                     |                                                          |
| Tornos                    | TBM32                         | 1536E (F76-740)                     |                                |                                     |                                                          |
| Tornos                    | TOP 100                       | 116E (F13 76-357)                   |                                |                                     |                                                          |
| Tornos                    | Top 100                       | 120E (F15 76-580)                   | for Tornos TOP 100             | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Tornos                    | Top 100                       | 120E (F15 76-580)                   | I353 (J6R)                     | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Tornos                    | Top 100                       | 120E (F15 76-580)                   | I354 1 (J7A)                   | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Tornos                    | Top 200                       | 145E (F25 76-64)                    | for Tornos TOP 200             | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tornos                    | TV                            | 101E (F8 76-577)                    |                                |                                     |                                                          |
| Tornos (Wielowrzecionowy) | AS 14                         | 9001E P25 78-334                    | 9251E A17,9 71-335             | Pick up F16 76-830 (3263E)          |                                                          |
| Tornos (Wielowrzecionowy) | AS 16                         | 9021E W25 80-1923                   | 9265E A22,8 71-1922            | Pick up F16 76-830 (3263E)          |                                                          |
| Tornos (Wielowrzecionowy) | BS 14                         | 9001E P25 78-334                    | 9251E A17,9 71-335             | Pick up F16 76-830 (3263E)          |                                                          |
| Tornos (Wielowrzecionowy) | BS 20                         | 9018E                               | 9263E                          | Pick up F16 76-830 (3263E)          |                                                          |
| Tornos (Wielowrzecionowy) | BS 20B                        | 9020E                               | 9266E                          | Pick up SY 145E 9020 EG             |                                                          |
| Tornos (Wielowrzecionowy) | BS 22                         | 9018E                               | 9263E                          | Pick up F16 76-830 (3263E)          |                                                          |
| Tornos (Wielowrzecionowy) | Multi-Deco 20                 | 9012E (TZgb-0034)                   | 9258E (TZp-0025)               | Pick up 9012 ETPU                   |                                                          |
| Tornos (Wielowrzecionowy) | Multi-Deco 26 32              | 9039ET                              | 9282E                          | Pick up 9039 ETPU                   |                                                          |
| Tornos (Wielowrzecionowy) | Multisigma 248                | 9012E (TZgb-0034)                   |                                | Pick up 9012 ETPU                   |                                                          |
| Tornos (Wielowrzecionowy) | Multisigma 288                | 9017E                               |                                | Pick up 9039 ETPU                   |                                                          |

# TULEJE MOCUJĄCE

## COLLETS FOR MULTI-SPINDLE LATHES

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| Producent<br>Manufacturer | Model automatu<br>Lathe model | Tuleja zaciskowa<br>Clamping collet | Tuleja podająca<br>Feed finger | Tuleja przechwyty<br>Pick-Up Collet | Tuleja przechwyty<br>specjalna<br>Special Pick-Up Collet |
|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Tornos (Wielowrzecionowy) | SAS 16                        | 9021E W25 80-1923                   | 9265E A22,8 71-1922            | Pick up F16 76-830 (3263E)          |                                                          |
| Traub                     | A 15                          | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Traub                     | A-15                          | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Traub                     | A-20                          | 148E (F28 76-93)                    |                                |                                     |                                                          |
| Traub                     | A-25                          | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Traub                     | A-26                          | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Traub                     | A-30                          | 163E (F35 76-94)                    |                                |                                     |                                                          |
| Traub                     | A-36                          | 171E (F42 76-99)                    |                                |                                     |                                                          |
| Traub                     | A-42                          | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Traub                     | A-60                          | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Traub                     | M 105 - 125                   | 120E (F15 76-580)                   | F853 (B212A)                   |                                     |                                                          |
| Traub                     | M 205                         | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Traub                     | M 255 SN 25 C                 | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Traub                     | M 45                          | 101E (F8 76-577)                    |                                |                                     |                                                          |
| Traub                     | M 75                          | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Traub                     | MS J 125 K                    | 120E (F15 76-580)                   | F853 (B212A)                   |                                     |                                                          |
| Traub                     | MS J 155 K                    | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Traub                     | MS J 75 K                     | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Traub                     | TB 42                         | 173E (F48 76-81)                    |                                |                                     |                                                          |
| Traub                     | TB 60                         | 185E (F66 76-59)                    |                                |                                     |                                                          |
| Traub                     | TD 16                         | 140E (F22 76-71)                    |                                |                                     |                                                          |
| Traub                     | TD 26                         | 161E (F32 76-221)                   |                                |                                     |                                                          |
| Traub                     | TD 36                         | 171E (F42 76-99)                    |                                |                                     |                                                          |
| Traub                     | TNL 12/7                      | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Traub                     | TNL 12/7                      | 1212E (F16 76-1076)                 |                                |                                     |                                                          |
| Traub                     | TNL 12/7                      | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Traub                     | TNL 127                       | 120E (F15 76-580)                   | FTS 221 (Traub 989 468)        | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Traub                     | TNL 127                       | 1212E (F16 76-1076)                 | F605 (B238)                    | 1212E (F16 76-1076)                 | 1212E LONG/TAP (F16 76-1076)                             |
| Traub                     | TNL 127                       | 136E (F20 76-201)                   | T221 (B301)                    | 136E (F20 76-201)                   | 136E LONG/TAP (F20 76-201)                               |
| Traub                     | TNL 127                       |                                     | F853 (B212A)                   |                                     |                                                          |
| Traub                     | TNL 16                        | 136E (F20 76-201)                   |                                |                                     |                                                          |
| Traub                     | TNL 16                        | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Traub                     | TNL 16                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Traub                     | TNL 16 bis ø 16,0             | 136E (F20 76-201)                   | F391 (J7AR)                    | 138E (F20 76-87)                    | 138E LONG/TAP (F20 76-87)                                |
| Traub                     | TNL 16 bis ø 16,0             | 138E (F20 76-87)                    | FTS 3402 (Traub 989 517)       |                                     |                                                          |
| Traub                     | TNL 16 bis ø 16,0             | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Traub                     | TNL 16 bis ø 20 TNL 16G       | 144E F25 76-91                      | T223 (B261)                    | 144E F25 76-91                      | 144E LONG/TAP F25 76-91                                  |
| Traub                     | TNL 16-16                     | 138E (F20 76-87)                    |                                |                                     |                                                          |
| Traub                     | TNL 16-20                     | 144E                                |                                |                                     |                                                          |
| Traub                     | TNL 18                        | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Traub                     | TNL 18                        |                                     | Guide bush FTS 223             |                                     |                                                          |
| Traub                     | TNL 20                        | 145E (F25 76-64)                    | T223 (B261)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Traub                     | TNL 26                        | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Traub                     | TNL 26 301 v u. +             | 138E (F20 76-87)                    | T227 (B227)                    | 157E (F30 76-63)                    | 138E LONG/TAP (F20 76-87)                                |
| Traub                     | TNL 26 301 v u. +             | 145E (F25 76-64)                    | T227 (B227)                    | 157E (F30 76-63)                    | 145E LONG/TAP (F25 76-64)                                |
| Traub                     | TNL 26 301 v u. +             | 1536E (F37 76-740)                  | T227 (B227)                    | 157E (F30 76-63)                    | 1536E LONG/TAP (F37 76-740)                              |
| Traub                     | TNL 26 301 v u. +             | 157E (F30 76-63)                    | T227 (B227)                    | 157E (F30 76-63)                    |                                                          |
| Traub                     | TNL 2632                      | 1536E (F37 76-740)                  | DKS Double-cone SB.D0001       | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |



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|---------------------------|-------------------------------|-------------------------------------|--------------------------------|-------------------------------------|----------------------------------------------------------|
| Traub                     | TNL 32                        | 1536E (F76-740)                     |                                |                                     |                                                          |
| Traub                     | TNL 32                        | 1536E (F37 76-740)                  | EC 42 steel version            | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Trohm                     | M105                          | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Trohm                     | M75                           | 109E (F10 76-86)                    |                                |                                     |                                                          |
| Tsugami                   | BA 20                         | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tsugami                   | BA 26                         | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Tsugami                   | BH 38                         | 173E (F48 76-81)                    | T249 (B240)                    | 173E (F48 76-81)                    | 173E LONG/TAP (F48 76-81)                                |
| Tsugami                   | BM 07                         | 111E (F10 76-1178)                  |                                |                                     |                                                          |
| Tsugami                   | BN 20                         | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tsugami                   | BO 07                         | 109E (F10 76-86)                    | F3001 (J4)                     |                                     |                                                          |
| Tsugami                   | BO 12                         | 140E (F22 76-71)                    | F605 (B238)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | BO 18                         | 140E (F22 76-71)                    | F605 (B238)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | BO 18B                        | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tsugami                   | BO 34 HE                      | 101E (F8 76-577)                    | I352                           | 101E (F8 76-577)                    |                                                          |
| Tsugami                   | BO07                          | 111E (F10 76-1178)                  |                                |                                     |                                                          |
| Tsugami                   | BS 12                         | 140E (F22 76-71)                    | F605 (B238)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | BS 18                         | 140E (F22 76-71)                    | F605 (B238)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | BS 18                         | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tsugami                   | BS 20                         | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tsugami                   | BS 25                         | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Tsugami                   | BS 26                         | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Tsugami                   | BS 26B                        | 157E (F30 76-63)                    |                                |                                     |                                                          |
| Tsugami                   | BS 32                         | 1536E (F37 76-740)                  |                                | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Tsugami                   | BU 26                         | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Tsugami                   | BU-MU 26                      | 161E (F32 76-221)                   | T227 (B227)                    | 161E (F32 76-221)                   | 161E LONG/TAP (F32 76-221)                               |
| Tsugami                   | BW 07                         | 109E (F10 76-86)                    | F3001 (J4)                     |                                     |                                                          |
| Tsugami                   | BW 12                         | 140E (F22 76-71)                    | F605 (B238)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | BW 20                         | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tsugami                   | HS 20-7                       | 145E (F25 76-64)                    | TD26                           | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tsugami                   | NB 12                         | 140E (F22 76-71)                    | F605 (B238)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | NP-4W                         | 109E (F10 76-86)                    | F3001 (J4)                     |                                     |                                                          |
| Tsugami                   | NP-4W                         | 111E (F10 76-1178)                  |                                |                                     |                                                          |
| Tsugami                   | NT/NP 11                      | 120E (F15 76-580)                   |                                |                                     |                                                          |
| Tsugami                   | NT/NP 20                      | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tsugami                   | NT/NP 32                      | 1536E (F76-740)                     |                                |                                     |                                                          |
| Tsugami                   | NT-NP 11                      | 120E (F15 76-580)                   | F853 (B212A)                   | 120E (F15 76-580)                   | 120E LONG/TAP (F15 76-580)                               |
| Tsugami                   | NT-NP 16                      | 140E (F22 76-71)                    | F391 (J7AR)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | NT-NP 17                      | 140E (F22 76-71)                    | F391 (J7AR)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | NT-NP 17                      | 140E (F22 76-71)                    | F605 (B238)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | NT-NP 20 II                   | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tsugami                   | NT-NP 32                      | 1536E (F37 76-740)                  | T229 (J9)                      | 1536E (F37 76-740)                  | 1536E LONG/TAP (F37 76-740)                              |
| Tsugami                   | NTT-NP 16 II                  | 140E (F22 76-71)                    | F391 (J7AR)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | NTT-NP 16 II                  | 140E (F22 76-71)                    | F605 (B238)                    | 140E (F22 76-71)                    | 140E LONG/TAP (F22 76-71)                                |
| Tsugami                   | S 20                          | 145E (F25 76-64)                    | I357 (B260)                    | 145E (F25 76-64)                    | 145E LONG/TAP (F25 76-64)                                |
| Tsugami                   | S20                           | 145E (F25 76-64)                    |                                |                                     |                                                          |
| Tsugami                   | T7                            | 111E (F10 76-1178)                  |                                |                                     |                                                          |