TOOL HOLDERS
CITIZEN CINCOM
M20-M32.

Made in Switzerland
since 1960
PCM WILLEN SA

For over 40 years, PCM Willen SA is one of the world’s leading manufacturers of special tool holders for automatic lathes. All our products are developed and manufactured in Switzerland and bear the label «Swiss Made», which is synonymous with precision, quality and reliability.

Our company is located in the middle of French-speaking part of Switzerland at the edge of Lake Geneva near Montreux. Our international dealer network ensures continued after sales support. We offer training courses, which we tailor to individual customer requirements.

PCM stays for innovation and progress. Our superbly qualified engineering staff ensures finest quality of manufacturing solutions and keeps our customers ahead of the competition. In close cooperation with machine builders and end users, we stay on the way to satisfied customers. We will keep this track in the future.

The best quality toolholders can only provide optimum performance if they are maintained or repaired with first class replacement parts. PCM experts emphasize professional after sale support for all PCM equipment.
YOUR CHOICE N°1 IN TOOLING SYSTEMS

- Long service life
- Very gentle transmission even at high speed operation
- 100% tested
- Customised tool available

High performance seal for an hermetic tool holder
High precision preloaded spindle ball bearings class P4S
Low backlash and high transmission accuracy
Different ratios available
Available with coolant through the spindle
Case-hardened and paired bevel gears system
Case-hardened and grinded spindle
High flexible coolant system (Hirt Line)
Different clamping systems in high precise concentricity
CITIZEN CINCOM M20-M32

Table of Contents

- Face drill/mill tools  5
- Cross drill/mill tools  14
- Accelerated tools    22
- Adjustable tools     28
- Slitting saw tools   32
- Polygon tools        33
- Hobbing tools        34
- Whirling tools       36
- Special tools        40

Rotation:  
- CW Clockwise
- CCW Counterclockwise

Cooling:  
- INT Interior
- EXT Exterior
- Without

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GSE-306-L-520

- ER11
- 1:1
- RPM max.: 6'000
- Machines Types:
  - L20V
  - L20VII
  - L20VIII
  - L20X
  - M220-V
  - M232-III
  - M320-III
  - M32-V
  - M332-III
  - M32-V
  - M332-III
  - M32-4M5
  - M32-4M8

Note:
Position T08-T10

GSE-306-SE312

- ER11
- 1:3
- RPM max.: 18'000
- Machines Types:
  - L20E-2M8
  - L20E-2M10
  - L20E-2M12
  - L20E-IX
  - L20V
  - L20VII
  - L20VIII
  - L20X
  - M220-V
  - M232-III
  - M32-V
  - M332-III
  - M32-4M5
  - M32-4M8

Note:
Position T08-T10
**GSE-306-DE312**

- 2xER11
- 1:3
- RPM max.: 18'000
- Machines Types:
  - L20E2M8
  - L20E2M10
  - L20E1M12
  - L20E-IX
  - L20V
  - L20VII
  - L20VIII
  - L20X
  - M220-V
  - M220-III
  - M232-V
  - M232-III

**Note:** Position T08-T10

**GSE-306-DE011**

- 2xER11
- 1:1
- RPM max.: 6'000
- Machines Types:
  - L20E2M8
  - L20E2M10
  - L20E1M12
  - L20E-IX
  - L20V
  - L20VII
  - L20VIII
  - L20X
  - M220-V
  - M220-III
  - M232-V
  - M232-III

**Note:** Position T08-T10
### GSE-316-GS

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<tbody>
<tr>
<td>RPM max.</td>
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#### Machines Types

- L20E2M8
- L20E2M10
- L20E-1M12
- L20E-IX
- L20V
- L20VIII
- L20X
- M32-3M5
- M32-3M3
- M32-4M5
- M32-4M8

#### Note:

Position T08-T10

### GSE-1510

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</table>

#### Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

#### Note:

Position T10
CITIZEN CINCOM M20-M32
Face drill/mill tools

GSE-1510-IK

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Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:

Position T10

KSE110-K

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<td>1:1</td>
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<tr>
<td>RPM max.</td>
<td>5'000</td>
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Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:

Position T20-T29
**KSE110-KAI**

- ER16
- 1:1
- RPM max. 5'000
- Machines Types:
  - M220-III
  - M220-V
  - M232-III
  - M232-V
  - M320-III
  - M320-V
  - M332-III
  - M332-V
  - M32-4M5
  - M32-4M8

**Note:**
- Position T20-T29
- For high pressure

---

**KSE210-IK**

- ER16
- 1:2
- RPM max. 10'000
- Machines Types:
  - M220-III
  - M220-V
  - M232-III
  - M232-V
  - M320-III
  - M320-V
  - M332-III
  - M332-V
  - M32-4M5
  - M32-4M8

**Note:**
- Position T20-T29
- For high pressure
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<td>Machines Types</td>
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<td>Note:</td>
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<tr>
<td>Position T20-T29</td>
<td>For high pressure</td>
<td></td>
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</tr>
</tbody>
</table>
CITIZEN CINCOM M20-M32
Face drill/mill tools

**KSE310-K**

- **ER16**
- **1:1**
- **RPM max.**: 5’000

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

Position T20-T29
For high pressure

---

**KSE-510-KAI**

- **2xER16**
- **1:1**
- **RPM max.**: 5’000

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

Position T20-T29
KSE110-BKK

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<th>ER16</th>
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<tbody>
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<td>RPM max.</td>
<td>5'000</td>
</tr>
<tr>
<td></td>
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</table>

Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:

Position T20-T29
For high pressure

KSE110-DE

<table>
<thead>
<tr>
<th>ER16+ER11</th>
<th>1:1</th>
</tr>
</thead>
<tbody>
<tr>
<td>RPM max.</td>
<td>5'000</td>
</tr>
<tr>
<td></td>
<td></td>
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</tbody>
</table>

Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:

Position T20-T29
KSE110-DE-32

- ER16+ER16
- 1:1
- RPM max.: 5’000
- Machines Types:
  - M220-III
  - M220-V
  - M232-III
  - M232-V
  - M320-III
  - M320-V
  - M332-III
  - M332-V
  - M32-4M5
  - M32-4M8

Note:
Position T20-T29

KSE110-US

- ER16
- 1:1
- RPM max.: 5’000
- Machines Types:
  - M220-III
  - M220-V
  - M232-III
  - M232-V
  - M320-III
  - M320-V
  - M332-III
  - M332-V
  - M32-4M5
  - M32-4M8

Note:
Position T20-T29
CITIZEN CINCOM M20-M32
Cross drill/mill tools

GSC-907

<table>
<thead>
<tr>
<th>ER11</th>
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<th>RPM max. 6'000</th>
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<tbody>
<tr>
<td>L20E2M8</td>
<td>L20E2M10</td>
<td>L20E-1M12</td>
</tr>
<tr>
<td>L20E-IX</td>
<td>L20V</td>
<td>L20VII</td>
</tr>
<tr>
<td>L20VIII</td>
<td>L20X</td>
<td>M32-3M5</td>
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<tr>
<td>M32-3M3</td>
<td>M32-4M5</td>
<td>M32-4M8</td>
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Note:
Position T08-T10

GSC-1010

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<th>RPM max. 6'000</th>
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</thead>
<tbody>
<tr>
<td>M220-V</td>
<td>M232-III</td>
<td>M232-V</td>
</tr>
<tr>
<td>M220-III</td>
<td>M320-III</td>
<td>M320-V</td>
</tr>
<tr>
<td>M232-V</td>
<td>M332-III</td>
<td>M332-V</td>
</tr>
<tr>
<td>L20V</td>
<td>M220-III</td>
<td>M32-4M5</td>
</tr>
<tr>
<td>L20VII</td>
<td>M32-4M8</td>
<td>M32-4M8</td>
</tr>
</tbody>
</table>

Note:
Position T08-T10
### CITIZEN CINCOM M20-M32

**Cross drill/mill tools**

---

#### GSC1310-HP

- **ER16**
- **1:1**
- **RPM max.**: 8'000

<table>
<thead>
<tr>
<th>Machines Types</th>
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<tbody>
<tr>
<td>A20-3F7N</td>
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<tr>
<td>A232-VII</td>
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<tr>
<td>A32-VII</td>
</tr>
<tr>
<td>A320-VII</td>
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<tr>
<td>L20E-2M8</td>
</tr>
<tr>
<td>L20E-2M10</td>
</tr>
<tr>
<td>L20E-2M12</td>
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<tr>
<td>L32-1M8</td>
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<tr>
<td>L32-1M10</td>
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<tr>
<td>L32-1M12</td>
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</table>

**Note:**
- Position T06-T08 according to the machine
- Maximum pressure 137 Bar

---

#### KSC110-100ER

- **ER11**
- **1:2**
- **RPM max.**: 10'000

<table>
<thead>
<tr>
<th>Machines Types</th>
</tr>
</thead>
<tbody>
<tr>
<td>M220-III</td>
</tr>
<tr>
<td>M220-V</td>
</tr>
<tr>
<td>M232-III</td>
</tr>
<tr>
<td>M232-V</td>
</tr>
<tr>
<td>M320-III</td>
</tr>
<tr>
<td>M320-V</td>
</tr>
<tr>
<td>M332-III</td>
</tr>
<tr>
<td>M332-V</td>
</tr>
<tr>
<td>M32-4M5</td>
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<tr>
<td>M32-4M8</td>
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**Note:**
- Position T20-T29
- Compact size
## KSC110-100ER

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<tr>
<td><strong>Ratio</strong></td>
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<tr>
<td><strong>RPM max.</strong></td>
<td>10'000</td>
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</table>

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

- Position T20-T29
- Compact size

## KSC110-HP

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<tr>
<td><strong>Ratio</strong></td>
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<tr>
<td><strong>RPM max.</strong></td>
<td>5'000</td>
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</table>

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

- Position T20-29
- Max pressure 70 bars
**KSC110-IK**

- **ER16**
- **1:1**
- **RPM max.** 5’000

**Machines Types**

M220-III  
M220-V  
M232-III  
M232-V  
M320-III  
M320-V  
M332-III  
M332-V  
M32-4M5  
M32-4M8

**Note:**  
Position T20-29  
Max pressure 30 bars

---

**KSC110-K**

- **ER16**
- **1:1**
- **RPM max.** 5’000

**Machines Types**

M220-III  
M220-V  
M232-III  
M232-V  
M320-III  
M320-V  
M332-III  
M332-V  
M32-4M5  
M32-4M8

**Note:**  
Position T20-T29
CITIZEN CINCOM M20-M32
Cross drill/mill tools

KSC110-K-CR

- ER16
- 1:1
- RPM max.: 5'000
- Machines Types:
  - M220-III
  - M220-V
  - M232-III
  - M232-V
  - M320-III
  - M320-V
  - M332-III
  - M332-V
  - M32-4M5
  - M32-4M8

Note:
- Position T20-T29
- Quick change system ECR

KSC110-K-ER

- ER16
- 1:1
- RPM max.: 5'000
- Machines Types:
  - M220-III
  - M220-V
  - M232-III
  - M232-V
  - M320-III
  - M320-V
  - M332-III
  - M332-V
  - M32-4M5
  - M32-4M8

Note:
- Position T20-T29
- Compact size

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### CITIZEN CINCOM M20-M32
Cross drill/mill tools

#### KSC-310

- 3xER16
- 1:1
- RPM max.: 5'000

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-29

---

#### KSC-310-II

- 3xER16
- 1:1.462
- RPM max.: 7'310

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29
CITIZEN CINCOM M20-M32
Cross drill/mill tools

---

**KSC510**

- **2xER16**
- **1:1.462**
- **RPM max. 7'310**

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M32-4M5
- M32-4M8

**Note:**

Position T20-T29

---

**KSC510-10**

- **2xER16**
- **1:1.462**
- **RPM max. 7'310**

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M32-4M5
- M32-4M8

**Note:**

Position T20-T29
Possibility to adapted it on KSC-310-II

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KSC510-DEC-K

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<tbody>
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Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M8
- M32-4M5

Note:
Position T20-T29
GSC-204-3X

- ER11
- 1:3
- RPM max.: 15'000
- Machines Types:
  - A20-3F7N M220-III
  - A232-VII M220-V
  - A32-VII M232-III
  - A320-VII M232-V
  - L20E-2M8 M320-III
  - L20E-2M10 M320-V
  - L20E-2M12 M332-III
  - L32-1M8 M332-V
  - L32-1M10 M32-4M5
  - L32-1M12 M32-4M8

Note:
Position T06-T10 according to the machine

GSC-510-L-3X

- ER11
- 1:3
- RPM max.: 18’000
- Machines Types:
  - L20E2M8 M220-V
  - L20E2M10 M232-III
  - L20E-1M12 M232-V
  - L20E-IX M320-III
  - L20V M320-V
  - L20VII M332-III
  - L20VIII M332-V
  - L20X M32-4M5
  - M220-III M32-4M8

Note:
Position T08-T10
# GSC-510-4X

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</table>

- **Machines Types**
  - L20E2M8
  - L20E-2M10
  - L20E-1M12
  - L20E-IX
  - L20V
  - L20VII
  - L20X
  - M32-3M5
  - M32-3M3
  - M32-4M5
  - M32-4M8

**Note:**
Position T08-T10

---

# GSC-310-3X

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<tr>
<th>Tool</th>
<th>ER11</th>
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<tbody>
<tr>
<td>Ratio</td>
<td>1:3</td>
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<tr>
<td>RPM max.</td>
<td>-</td>
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</tbody>
</table>

- **Machines Types**
  - L25

**Note:**
Position T08-T10
### KSC-DEC-L-10X3

- **ER11**
- **1:3.012**
- **RPM max.** 15’060

#### Machines Types
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

#### Note:
- Position T20-T29

### KSE110-2X

- **ER11**
- **1:2**
- **RPM max.** 10’000

#### Machines Types
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

#### Note:
- Position T20-T29
- For high pressure
KSE110-IK-2X

- ER16
- 1:2
- RPM max.: 10'000
- Machines Types:
  - M220-III
  - M220-V
  - M232-III
  - M232-V
  - M320-III
  - M320-V
  - M332-III
  - M332-V
  - M32-4M5
  - M32-4M8
- Note:
  - Position T20-T29

KSE310-2X

- ER16
- 1:2
- RPM max.: 10'000
- Machines Types:
  - M220-III
  - M220-V
  - M232-III
  - M232-V
  - M320-III
  - M320-V
  - M332-III
  - M332-V
  - M32-4M5
  - M32-4M8
- Note:
  - Position T20-T29
KSE250-KAI-2X

- 2xER16
- 1:2.027
- RPM max. 10'135

Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:
Position T20-T29
Intern coolant just for the face spindle.
18° for the second spindle
Pressure max. 30 Bar

KSE110-US-2X

- ER16
- 1:2
- RPM max. 10'000

Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:
Position T20-T29

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KSC-DEC-10X2-ER

ER11
1:2.056

RPM max.
10'280

M220-III
M220-V
M232-III
M232-V
M320-III
M320-V
M332-III
M332-V
M32-4M5
M32-4M8

Position T20-T29

Note:

Accelerated tools

CITIZEN CINCOM M20-M32
### GSA-107

<table>
<thead>
<tr>
<th>ER11</th>
<th>1:1</th>
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<tbody>
<tr>
<td>RPM max.</td>
<td>6'000</td>
</tr>
<tr>
<td>L20E2M8</td>
<td>M220-V</td>
</tr>
<tr>
<td>L20E2M10</td>
<td>M232-III</td>
</tr>
<tr>
<td>L20E-1M12</td>
<td>M232-V</td>
</tr>
<tr>
<td>L20E-IX</td>
<td>M320-III</td>
</tr>
<tr>
<td>L20V</td>
<td>M320-V</td>
</tr>
<tr>
<td>L20VII</td>
<td>M332-III</td>
</tr>
<tr>
<td>L20VIII</td>
<td>M332-V</td>
</tr>
<tr>
<td>L20X</td>
<td>M32-4M5</td>
</tr>
<tr>
<td>M220-III</td>
<td>M32-4M8</td>
</tr>
</tbody>
</table>

**Note:**
- Position T08-T10
- Need 2 tool positions
- Adjustable 0°-180°

### KSA107-S

<table>
<thead>
<tr>
<th>ER11</th>
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<tr>
<td>RPM max.</td>
<td>5'000</td>
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<tr>
<td>M220-III</td>
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<tr>
<td>M220-V</td>
<td></td>
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<tr>
<td>M232-III</td>
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</tr>
<tr>
<td>M232-V</td>
<td></td>
</tr>
<tr>
<td>M320-III</td>
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<tr>
<td>M320-V</td>
<td></td>
</tr>
<tr>
<td>M332-III</td>
<td></td>
</tr>
<tr>
<td>M332-V</td>
<td></td>
</tr>
<tr>
<td>M32-4M5</td>
<td></td>
</tr>
<tr>
<td>M32-4M8</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- Position T20-T29
- Adjustable 0 to 90°

---

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**KSA-307**

- **ER11**
- **1:1**
- **RPM max.** 5'000

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

- Position T20-T29
- Adjustable 0 to 30°

---

**KSA-407**

- **ER11**
- **1:1**
- **RPM max.** 5'000

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

- Position T20-T29
- Adjustable 30° to 90°
**CITIZEN CINCOM M20-M32**

**Adjustable tools**

---

### KSF-130-ER

- **Holder**: ER11
- **Reducer**: 1:1
- **RPM max.**: 5'000

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

- Position T20-T29
- Adjustable ±20°

---

### KSA107-S-H

- **Holder**: ER11
- **Reducer**: 1:1
- **RPM max.**: 5'000

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

- Position T20-T29
- Adjustable 0 to 90°
- Basis +40 mm

---

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CITIZEN CINCOM M20-M32
Adjustable tools

GSA-1510

- 3xER16
- 1:1
- RPM max. 8’000

Machines Types
- M32-4M5
- M32-4M8

Note:
- Position T08-T10
- Need 2 tool positions
- Adjustable 0°-30°
GSS-510

Ø 16

ør 2:1

RPM max. 3'000


Machines Types

Note:
Position T08-T10
Need 2 tool positions
**KSF-130**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tr>
<td>RPM max.</td>
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**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

Position T20-T29
Adjustable ±20°
KSH-132-25

<table>
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<th>Feature</th>
<th>Details</th>
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<tr>
<td>Teeth</td>
<td>13</td>
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<tr>
<td>Ratio</td>
<td>1:1</td>
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<tr>
<td>RPM max.</td>
<td>5,000</td>
</tr>
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</table>

Machines Types
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:
- Position T20-T29
- Need two positions
- Adjustable ±25°

KSH-132-27-17

<table>
<thead>
<tr>
<th>Feature</th>
<th>Details</th>
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<tbody>
<tr>
<td>Teeth</td>
<td>10</td>
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<tr>
<td>Ratio</td>
<td>1:1.588</td>
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<tr>
<td>RPM max.</td>
<td>7,940</td>
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</table>

Machines Types
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:
- Position T20-T29
- Need two positions
- Adjustable 0° to 20°
# KSH-132-27-17-II

<table>
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<tr>
<td>Reduction</td>
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<tr>
<td>RPM max.</td>
<td>7'940</td>
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</table>

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29
Need two positions
Adjustable 0° to 20°

---

# KSH-133-035

<table>
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**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29
Need two positions
Adjustable ±10°
CITIZEN CINCOM M20-M32
Whirling tools

**LSW-101-L20**

- 
- 2:1

<table>
<thead>
<tr>
<th>RPM max.</th>
<th>3'000</th>
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Machines Types

- L20E2M8
- L20E2M10
- L20E-1M12
- L20E-IX
- L20V
- L20VII
- L20VIII
- L20X
- M32-3M5
- M32-3M3
- M32-4M5
- M32-4M8

**Note:**

Position T08-T10
Need 2 tool positions
Adjustable ±10°

**LSW-101-L25**

- 
- 2:1

<table>
<thead>
<tr>
<th>RPM max.</th>
<th>3'000</th>
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Machines Types

- L20E2M8
- L20E2M10
- L20E-1M12
- L20E-IX
- L20V
- L20VII
- L20VIII
- L20X
- M32-3M5
- M32-3M3
- M32-4M5
- M32-4M8

**Note:**

Position T08-T10
Need 2 tool positions
Adjustable ±10°
### LSW-215

<table>
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<th>Description</th>
<th>Value</th>
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<td>RPM max.</td>
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<tr>
<td>Machines Types</td>
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<tr>
<td>L20E2M8</td>
<td></td>
</tr>
<tr>
<td>L20E2M10</td>
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</tr>
<tr>
<td>L20E-1M12</td>
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</tr>
<tr>
<td>L20E-IX</td>
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<tr>
<td>L20V</td>
<td></td>
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<tr>
<td>L20VII</td>
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<tr>
<td>L20VIII</td>
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</tr>
<tr>
<td>L20X</td>
<td></td>
</tr>
<tr>
<td>M32-3M5</td>
<td></td>
</tr>
<tr>
<td>M32-3M3</td>
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<tr>
<td>M32-4M5</td>
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<tr>
<td>M32-4M8</td>
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</table>

**Note:**
- Position T08-T10
- Need 2 tool positions
- Adjustable ±15°

### LSW-225

<table>
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<td>RPM max.</td>
<td>6'000</td>
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<tr>
<td>Machines Types</td>
<td></td>
</tr>
<tr>
<td>L20E2M8</td>
<td></td>
</tr>
<tr>
<td>L20E2M10</td>
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<tr>
<td>L20E-1M12</td>
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<tr>
<td>L20E-IX</td>
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<tr>
<td>L20V</td>
<td></td>
</tr>
<tr>
<td>L20VII</td>
<td></td>
</tr>
<tr>
<td>L20VIII</td>
<td></td>
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<tr>
<td>L20X</td>
<td></td>
</tr>
<tr>
<td>M32-3M5</td>
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</tr>
<tr>
<td>M32-3M3</td>
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<tr>
<td>M32-4M5</td>
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<tr>
<td>M32-4M8</td>
<td></td>
</tr>
</tbody>
</table>

**Note:**
- Position T08-T10
- Need 2 tool positions
- Adjustable ±25°
CITIZEN CINCOM M20-M32
Whirling tools

KSW-101

- (Rep.) -

- (Dia) -

2:1

RPM max.

5'000

M220-III
M220-V
M232-III
M232-V
M320-III
M320-V
M332-III
M332-V
M32-4M5
M32-4M8

Machines Types

Note:

Position T20-T29
Need 3 positions
Adjustable ±15°
SCHWANOG cutter head SWG-192236, Z=6, Ø12 mm
GLOOR cutter head 501-0001, Z=6, Ø11 mm
UTILIS cutter head 137600, Z=9, Ø12 mm
UTILIS cutter head 137356, Z=12, Ø12 mm

GSW-250

- (Dia.) -

- (Dia) -

3:2

RPM max.

5’333

Machines Types

M32-4M5

Note:

Axis B
Adjustable 0 to 25°
Schwanog cutter head from PCM GSW-250-FPSWG, Z=6, Ø12 mm
### GSW-255

<table>
<thead>
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<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>RPM</td>
<td>3:2</td>
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<tr>
<td>RPM max.</td>
<td>5’333</td>
</tr>
<tr>
<td>Machines Types</td>
<td>M32-4M8</td>
</tr>
</tbody>
</table>

**Note:**
- Axis B
- Adjustable 0 to 25°
- Schwanog cutter head SWG-196617, Z=5, Ø6 mm
- Gloor cutter head 501-0003, Z=5, Ø6 mm
- Utilis cutter head 138657, Z=9 or Z=7, Ø6 mm
**KSE105**

- **Ø**: 31
- **a**: 1:1
- **RPM max.**: 5'000

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
- Position T20-T29

---

**KSE310-UD**

- **ER16**: 2:1
- **RPM max.**: 5'000

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
- Position T20-T29
- For high pressure
**852-258-0F010**

- **ø**: 3x25.4
- **RPM max.**: -

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Replace the original back tool post

---

**856-525-0F010**

- **ø**: 5x25.4
- **RPM max.**: -

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Replace the original back tool post
852-349-OF030

<table>
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Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:
Replace the original back tool post

857-203-OF120

<table>
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Machines Types

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:
Replace original back tool post
856-003-OF105

Ø 12
Ø -
RPM max. -

Machines Types
M220-III
M220-V
M232-III
M232-V
M320-III
M320-V
M332-III
M332-V
M32-4M5
M32-4M8

Note:
Position T20-T29

856-003-OF100

Ø 22
Ø -
RPM max. -

Machines Types
M220-III
M220-V
M232-III
M232-V
M320-III
M320-V
M332-III
M332-V
M32-4M5
M32-4M8

Note:
Position T20-T29
856-003-0F113

Ø  25.4

RPM max.

M220-III
M220-V
M232-III
M232-V
M320-III
M320-V
M32-III
M32-V
M32-4M5
M32-4M8

Machines Types

Note:
Position T20-T29

CDF101

Ø  25.4

RPM max.

M220-III
M220-V
M232-III
M232-V
M320-III
M320-V
M32-III
M32-V
M32-4M5
M32-4M8

Machines Types

Note:
Position T20-T29
CDF101-AR-3

Ø 25
Ø 25

RPM max.

M220-III
M220-V
M232-III
M232-V
M320-III
M320-V
M332-III
M332-V
M32-4M5
M32-4M8

Machines Types

Note:
Position T20-T29

CDF201

Ø 25.4

RPM max.

M220-III
M220-V
M232-III
M232-V
M320-III
M320-V
M332-III
M332-V
M32-4M5
M32-4M8

Machines Types

Note:
Position T20-T29
**CD401**

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**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29

---

**CD402-AR**

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**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29
CDF101-AR-10

<table>
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</table>

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29

CDF101-AR-120-HP

<table>
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<tbody>
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<td>RPM max.</td>
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</table>

**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29
High pressure 100 Bar
### CDF101-SP

<table>
<thead>
<tr>
<th>Ø</th>
<th>25.4</th>
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<tbody>
<tr>
<td>RPM max.</td>
<td>-</td>
</tr>
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</table>

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

Position T20-T29

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### CDF201-AR-HP

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</table>

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

- Position T20-T29
- High pressure 100 Bar

---

Visit us online: www.pcm.ch
# CDF301

<table>
<thead>
<tr>
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<td>RPM max.</td>
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**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

Position T20-T29

---

# CDF301-AR-HP

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<tbody>
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<td>RPM max.</td>
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</table>

**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

Position T20-T29

High pressure 100 Bar
### CDF401-AR-HP

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</table>

**Machines Types**
- M220-III
- M232-III
- M320-III
- M320-III
- M32-4M8

**Note:**
Position T20-T29
High pressure 100 Bar
Intern coolant on the bottom hole

### CDF-ER16

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**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29
**GDF1502-IK**

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<td>RPM max.</td>
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</table>

**Machines Types**

- A232-VII
- A32-VII
- A320-VII
- M220-III
- M220-V
- M232-II
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
- Positions
  - U34B, T10
  - U152B, T34-T37
  - U30B, T10
- Max pressure interne 200 Bar
- Max pressure externe 100 Bar
- For Ø6 coolant tube

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**852-354-0F010**

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<tbody>
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<td>RPM max.</td>
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</table>

**Machines Types**

- L20E2M8
- L20E2M10
- L20E-1M12
- L20E-1X
- L20V
- L20VII
- L20VIII
- L20X
- M32-3M5
- M32-3M3

**Note:**
- Position T08-T10
- For high frequenz spindle Meyrat
**GDF903**

<table>
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<tr>
<td>RPM max.</td>
<td>-</td>
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</tbody>
</table>

**Machines Types**

- L20E2M8  M220-III
- L20E2M10  M220-V
- L20E-1M12  M232-III
- L20E-IX  M232-V
- L20V  M320-III
- L20VII  M320-V
- L20VIII  M332-III
- L20X  M332-V

**Note:**

Position T08-T10 and T06-T09 according to the machine

---

**GDF-903-25**

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<tr>
<td>RPM max.</td>
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</table>

**Machines Types**

- L20E2M8  M220-III
- L20E2M10  M220-V
- L20E-1M12  M232-III
- L20E-IX  M232-V
- L20V  M320-III
- L20VII  M320-V
- L20VIII  M332-III
- L20X  M332-V

**Note:**

Position T06-T09
### CDF-HF30

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**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
Position T20-T29
For high frequenz spindle

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### SAU-226

<table>
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**Machines Types**
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**
CTF116-HP

- 16
- RPM max.

Machines Types
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:
Position T20-T29
Possibility to mounting two tool holders on a turret site.
Attention, no cooling on back spindle position when used not in double.

CTF1116

- 2x16
- RPM max.

Machines Types
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

Note:
Position T20-T29
### CTF1116-D

<table>
<thead>
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<th>Machining Center</th>
<th>RPM Max.</th>
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<tbody>
<tr>
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<td>M220-V</td>
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<tr>
<td>M232-III</td>
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<tr>
<td>M232-V</td>
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<tr>
<td>M320-III</td>
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<tr>
<td>M320-V</td>
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<tr>
<td>M332-III</td>
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<tr>
<td>M332-V</td>
<td>-</td>
</tr>
<tr>
<td>M32-4M5</td>
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<tr>
<td>M32-4M8</td>
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</table>

**Note:**
- Possibility to mounting two tool holders on a turret site.
- Attention, no cooling on back spindle position when used not in double.

### 778-CTF-116-R-AR-HP

<table>
<thead>
<tr>
<th>Machining Center</th>
<th>RPM Max.</th>
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<td>M220-III</td>
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<tr>
<td>M220-V</td>
<td>-</td>
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<tr>
<td>M232-III</td>
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<tr>
<td>M232-V</td>
<td>-</td>
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<td>M320-III</td>
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<td>M320-V</td>
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<td>M332-III</td>
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<tr>
<td>M332-V</td>
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<tr>
<td>M32-4M5</td>
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<td>M32-4M8</td>
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**Note:**
- Possibility to mounting two tool holders on a turret site.
- Attention, no cooling on back spindle position when used not in double.
### CDF901-IK

<table>
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#### Machines Types
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

#### Note:
- Position T20-T29
- High pressure 100 Bar

### CDF901-IK-T-HP

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#### Machines Types
- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

#### Note:
- Position T20-T29
- High pressure 100 Bar
- Need the basis CDF901-IK, this is an interchangeable head.
### CDF905-AR-HP

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**Machines Types**

- M220-III
- M220-V
- M232-III
- M232-V
- M320-III
- M320-V
- M332-III
- M332-V
- M32-4M5
- M32-4M8

**Note:**

- Position T20-T29
- For high pressure 100 bars

### MEU208-MHF

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**Machines Types**

- M32-4M5
- M32-4M8

**Note:**

- Position Axis B
- For high frequenz spindle