TOOL HOLDERS
STAR MICRONICS SB-R.
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 CHOOSE N°1 IN TOOLING SYSTEMS

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

Advantages

- High performance seal for an hermetic tool holder
- High precision preloaded spindle ball bearings class P4S
- Low backlash and high transmission accuracy
- Case-hardened and grinded spindle
- Case-hardened and paired bevel gears system
- Available with coolant through the spindle
- Different clamping systems in high precise concentricity
- High flexible coolant system (Hirt Line)
- Different ratios available
- 100% tested
- Customised tool available

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Visit us online: www.pcm.ch
STAR MICRONICS SB-R

Axial tools  5
Cross drill/mill tools  8
Polygon tools  9
Hobbing tools  10
### E20-DE-1111

<table>
<thead>
<tr>
<th>Specification</th>
<th>Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>2xER11</td>
<td></td>
</tr>
<tr>
<td>Ratio</td>
<td>1:1</td>
</tr>
<tr>
<td>RPM max.</td>
<td>6'000</td>
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</table>

#### Machines Types
- ECAS-12
- ECAS-20
- SR-20J
- SR-20JN
- SR-20RIII
- SR-20RII
- SR-20RIV
- SW-20
- SB-12
- SB-20R

#### Note:
- CW
- CCW

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### E20-DS-2222

<table>
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<td>2xER11</td>
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#### Machines Types
- ECAS-12
- ECAS-20
- SR-20J
- SR-20JN
- SR-20RIII
- SR-20RII
- SR-20RIV
- SW-20
- SB-12
- SB-20R

#### Note:
- CW
- CCW

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Visit us online: www.pcm.ch
**SR20J-RSC-007**

<table>
<thead>
<tr>
<th>ER11</th>
<th>1:1</th>
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<tbody>
<tr>
<td>RPM max.</td>
<td>8'000</td>
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**Machines Types**

ECAS-12
ECAS-20
SB-12
SB-20R
SR-10J
SR-20J
SR-20JN
SR-20RIII
SR-20RII
SR-20RIV
SR-32J
SR-32JN
SV-20R
SW-12RII

**Note:**

**SR20J-GSE-2310**

<table>
<thead>
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<th>3xER16+3xER16</th>
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<td>RPM max.</td>
<td>8'000</td>
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**Machines Types**

SB-12
SB-20R
SR-20J
SR-20JN
SR-20RIII
SR-20RII
SR-20RIV

**Note:**
### STAR MICRONICS SB-R

**Face drill/mill tools**

#### SR20J-GSE-3710

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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<tbody>
<tr>
<td>Tools</td>
<td>3xER16 + 3xER11</td>
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<td>Spindle Ratio</td>
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#### Machines Types

- SB-12
- SB-20R
- SR-20J
- SR-20JN
- SR-20RIII
- SR-20RIV

#### Note:

- CW
- CCW
- W
- CW
- CCW
- W
- CW
- CCW
- W
### E20-GSE-110

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<thead>
<tr>
<th>ER16</th>
<th>1:1</th>
<th>8'000</th>
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**Machines Types**
- ECAS-12
- ECAS-20
- SB-12
- SB-20B
- SR10J
- SR-20J
- SR-20JN
- SR-20RIII
- SR-20RII
- SR-20RIV
- SR-32J
- SR-32JN
- SW-12RII

**Note:**
**SB-GSP-218**

<table>
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<tr>
<th>Feature</th>
<th>Value</th>
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<tbody>
<tr>
<td>Number of Teeth</td>
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<td>Reduction Ratio</td>
<td>1:1</td>
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<td>RPM max.</td>
<td>8000 rpm</td>
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<td>Machines Types</td>
<td>SB16-R, SB20-R</td>
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</tbody>
</table>

**Note:**
- Position T33-34-35
- Adjustable ±10°
**SW12-GSH-045**

- 3.5 + 4.5
- 1:1
- RPM max.: 8'000
- Machines Types: SW12-RII

**Note:**
- Position T900
- Position T800 will be blocked
- Adjustable +15°/-3°