Workholding Systems PC
clamping against the fixed jaw or concentric clamping, mechanically operated
jaw width 80 mm, clamping force 20 kN

Advantages
- Clamping against the fixed jaw or concentric clamping
- Compact design
- Simple low-cost clamping system
- Mounting holes as per customer’s request are possible
- All steel design
- Standard design with step jaws
- Accessory top jaw
- Accessory adaptor plate
- Easy disassembly and cleaning

Technical data
Clamping: against fixed jaw or concentric clamping
Operation: mechanical with torque wrench

PC 80
- Jaw width: 80 mm
- Clamping force: 20 kN at 60 Nm
- Clamping stroke: 50 mm (fixed jaw)
  62 mm (concentric)
- Length of the base: 170 mm
- Height: 60 mm

Description
PC clamping systems excel by a simple, compact design and a low price. They are particularly suitable for use in pallet magazines. PC clamping systems in all-steel design are supplied with clamping jaws and offer high precision and process safety. The clamping jaws equipped with grip texture offer a good retention force even with low clamping forces. For mounting, the bottom sides of the PC clamping systems are provided with 4 tapped holes M8 in a grid of 52 mm as well as with a tapped hole M10 for the location of a STARK retractable nipple (see accessory). At the side of the base there are clamping grooves for fixation with clamping claws. The simple design of the PC clamping systems allows easy disassembly and thus easy cleaning of the clamping systems.

Versions
Two different designs are available that differ in their clamping type and clamping stroke and thus in the opening (see page 2).

PC 80
- Clamping principle: clamping against the fixed jaw
- Clamping stroke: 50 mm

PC 80 Z
- Clamping principle: concentric clamping
- Clamping stroke: 62 mm

Application
PC clamping systems are advantageously used for workpiece clamping of small and medium-sized batches. As well as in automated systems where workpiece pallet storage units are used at the machine tool.

Accessory
(see page 3 and 4)
- Clamping jaws
- Accessories for mounting, positioning and operation
- Adapter plates
- Clamping claws
- STARK retractable nipple

Accessory rapid change block Quintus 1
(see data sheet WS 5.6150)
- for mounting of the PC clamping systems on the machine table
- available with or without zero point clamping system

Consultation
Our experts will be pleased to advise you also on site, and work with you to find the optimum clamping solution. Extensive information such as drawings and CAD models are available on request.
Technical data
Dimensions

PC 80
Clamping against the fixed jaw

PC 80 Z
Concentric clamping

<table>
<thead>
<tr>
<th>Series</th>
<th>PC 80</th>
<th>PC 80 Z</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clamping principle</td>
<td>fixed jaw</td>
<td>concentric</td>
</tr>
<tr>
<td>Clamping force</td>
<td>[kN at 60 Nm]</td>
<td>20</td>
</tr>
<tr>
<td>S&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>[mm]</td>
<td>69–119</td>
</tr>
<tr>
<td>S1&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>[mm]</td>
<td>51–99</td>
</tr>
<tr>
<td>S2&lt;sup&gt;1)&lt;/sup&gt;</td>
<td>[mm]</td>
<td>6–54</td>
</tr>
<tr>
<td>Weight with clamping jaws</td>
<td>[kg]</td>
<td>7</td>
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<tr>
<td>Part no. with clamping jaws</td>
<td>935730111</td>
<td>935730311</td>
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</tbody>
</table>

<sup>1)</sup> depending on the clamping jaw used, see accessory page 3
### Accessories

#### Clamping jaws

**Top jaws with grip**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part no.</th>
<th>Clamping ranges</th>
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<tbody>
<tr>
<td>PC 80 Z</td>
<td>530050371</td>
<td>S 17–79, S1 –, S2 –</td>
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</table>

**Step jaws smooth, fix**

<table>
<thead>
<tr>
<th>Type</th>
<th>Part no.</th>
<th>Clamping ranges</th>
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</thead>
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<td>S 69–119, S1 51–99, S2 6–54</td>
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</table>

**Step jaws smooth, movable**

<table>
<thead>
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<th>Clamping ranges</th>
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</thead>
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<td>PC 80</td>
<td>935736902</td>
<td>S 69–119, S1 51–99, S2 6–54</td>
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</table>
## Accessories for mounting, positioning and operation

### Torque wrench

<table>
<thead>
<tr>
<th>Type</th>
<th>Part no.</th>
<th>Torque [Nm]</th>
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<tbody>
<tr>
<td>PC 80</td>
<td>935837010</td>
<td>5–60</td>
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</tbody>
</table>

### Socket for torque wrench

<table>
<thead>
<tr>
<th>Type</th>
<th>Part no.</th>
<th>SW</th>
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<tbody>
<tr>
<td>PC 80</td>
<td>131240020</td>
<td>14</td>
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<tr>
<td>PC 80 Z</td>
<td>131240021</td>
<td>12</td>
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</tbody>
</table>

### Allen wrench for clamping jaws and top jaws

<table>
<thead>
<tr>
<th>Type</th>
<th>Part no.</th>
<th>SW</th>
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</thead>
<tbody>
<tr>
<td>PC 80 Z</td>
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<td>5</td>
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<tr>
<td>PC 80</td>
<td>169110002</td>
<td>6</td>
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</table>

### Application examples

- **Clamping system PC 80 Z equipped with 4 off retractable nipples in the grid of 52 mm (compatible for use in LANG Quick Point 52).**

- **Clamping system PC 80 Z on adapter plate. Adaptor plate equipped with 4 off retractable nipples in the grid of 96 mm (compatible for use in LANG Quick Point 96).**

- **Clamping system PC 80 Z with retractable nipples suitable for the rapid change block Quintus 1 with STARK zero point clamping system SPEEDY metec.**

- **Clamping system PC 80 Z on adapter plate.**