Bar loading magazine
for INDEX multi-spindle automatic lathes
INDEX MBL bar loading magazine

The benefits

- Oil-flooded guide channels
  - Continuous, fully-enclosed guiding of bar stock
  - Vibration-damping effect
  - Ability to machine round and polygon bars
- Drilling of bars during machining and storage in an intermediate buffer for quick reloading of a complete bar load
- Material feeding on the loading side and setup of the drilling unit during production
- Bar feed in all positions via NC motors
- Large front doors for easy retooling access
- Bar loader available in 2 versions:
  - Version 3300: Bar length 1,500 - 3,300 mm
  - Version 4300: Bar length 2,000 - 4,300 mm

Modular component system

Rack loader

- Storage area 700 mm
- Manual loading by operator
- No additional loading equipment required

Bundle loader

- Large storage capacity of 2,000 kg or bundle diameter 300 mm
- Rapid loading with crane or forklift
Guiding principle

Hydrodynamic guide of bars in oil-flooded channels made of sliding bearing material
- The channels are adapted to the bar diameter with plastic liners (bearing half shells). Simple clip fasteners facilitate the setup of the bearing half shells
- This results in optimum guidance of the bar material
- The guiding principle is also suitable for polygon bars

The bar stock is drilled in the bar loading magazine during machining. This enables continuous, fully enclosed guiding of the bar stock.
INDEX MBL bar loading magazine

Technical data

<table>
<thead>
<tr>
<th>Bar stock</th>
<th>MBL22-8</th>
<th>MBL24-6</th>
<th>MBL32-6</th>
<th>MBL40-6</th>
<th>MBL40-8</th>
</tr>
</thead>
<tbody>
<tr>
<td>Round dia. (mm)</td>
<td>5 - 22 (24)</td>
<td>7 - 24</td>
<td>7 - 32</td>
<td>13 - 40</td>
<td>13 - 40</td>
</tr>
<tr>
<td>Hexagon dia. (mm)</td>
<td>5 - 19</td>
<td>6 - 20</td>
<td>6 - 27</td>
<td>12 - 34</td>
<td>12 - 34</td>
</tr>
</tbody>
</table>

Bar storage load capacity

| Rack load capacity (mm) | 750 | 700 | 700 | 700 | 700 |
| Bundle load capacity (dia. 350 mm) | kg | max. 2,000 | max. 2,000 | max. 2,000 | max. 2,000 |

Bar lengths

| Version 3300 | mm | 1,500 - 3,300 | 1,500 - 3,300 | 1,500 - 3,300 | 1,500 - 3,300 |
| Version 4300 | mm | 2,000 - 4,300 | 2,000 - 4,300 | 2,000 - 4,300 | 2,000 - 4,300 |

Speed (depending on the nature of the bar stock)

| rpm up to | 10,000 | up to 10,000 | up to 8,000 | up to 7,000 | up to 7,000 |

MBL loading magazine dimensions (see installation plan figure)

| Version 3300 length (A) / Height (B) | mm | 4,720 / 2,485 | 4,720 / 2,490 | 4,720 / 2,490 | 4,720 / 2,490 | 4,860 / 2,600 |
| Version 4300 length (A) / Height (B) | mm | 5,720 / 2,485 | 5,720 / 2,490 | 5,720 / 2,490 | 5,720 / 2,490 | 5,860 / 2,600 |
| Rack loader version 3300 / 4300 width (G) | mm | 1990 | 1990 | 1990 | 1990 | 2015 |
| Bundle loader version 3300 / 4300 width (H) | mm | 1930 | 1920 | 1920 | 1920 | 1990 |

Installation plan

INDEX MBL bar loading magazine

Rack loader

Bundle loader