Key parameters

The use of the new modules for laser marking and tool cleaning in the robot loader increases the flexibility of your tool production and final inspection. Valuable time can be saved by the automatic loading of the measuring machine and by cleaning and laser marking outside of the machine working envelope.
Laser marking and tool cleaning

1 Module - Tool cleaning station
- Compact design
- Installation outside of the machine working envelope
- Cleaning is carried out with ultrasound cleaning bath
- Integrated tool drying with compressed air

2 Module - Laser Marking
- Compact design
- Installation outside of the machine working envelope
- Enclosed area
- Integrated exhaust system
- Safe operation

3 High capacity
- Up to 4 levels/16 pallets possible in “Single-Range-Mode”¹
  Example: Tool diameter 6 mm, capacity of 4,500 tools
  (Capacity calculated with 15 loaded pallets and 1 blank pallet)
- Up to 4 levels/12 pallets possible in “Multi-Range-Mode”²
  Example: Tool diameter 6 mm, capacity of 3,300 tools
  (Capacity calculated with 11 loaded pallets and 1 blank pallet)

4 Good accessibility
- Good accessibility from the front and from above
- Fast loading and unloading

<table>
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<tr>
<th>Robot loader</th>
<th>“Single-Range” equipment package</th>
<th>“Multi range” equipment package</th>
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<tbody>
<tr>
<td>max. number of levels</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>max. number of pallets/levels</td>
<td>4</td>
<td>3</td>
</tr>
<tr>
<td>max. capacity of pallets</td>
<td>16</td>
<td>12</td>
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<tr>
<td>Tool cleaning preparation</td>
<td>o²</td>
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<tr>
<td>Laser marking preparation</td>
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<td>Modular tool cleaning station</td>
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<td>Laser marking module</td>
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<td>Automatic collet change</td>
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1 Gripper fingers must frequently be changed in case of different spindle diameters
2 Gripper fingers can be used for a larger diameter area (diameter 3 – 16 mm and/or 16 – 25 mm) without any changes
3 Is required to fit the tool cleaning and laser marking module respectively
4 Requires the robot loader to be prepared in advance for the modules tool cleaning or laser marking
Ultrasonic cleaning bath

- The tools are cleaned prior to measurement in the ultrasound cleaning bath
- The tools are dried in the air stream, which can be adapted individually depending on the tool length

Laser marking

- High-grade marking without surface penetration
- Very fast marking
- Marking on shaft and/or tool end face
- Static and dynamic data marking can be selected

Plug and Play concept

- Simple retrofitting of additional functions with pre-configured interfaces for tool cleaning and laser marking
- Get the module, insert it and start using it. This is the simple WALTER way to Plug and Play

Tool load/unload process

- Secure and accurate changing of tools and collets by linear vertical motion of the machine axis
- Time saving due to the double gripper concept

1 Labelling on shaft included in standard scope of delivery. Labelling on the tool endface requires optional grippers
2 Conditional on interfaces for tool cleaning and laser marking options are ordered at the same time as the robot cell.
3 Conditional on installation of automatic collet change option