NEW

RT e-motion
Electromechanic Tombstone with integrated drives

PROGRAMMABLE MOTION PROFILES
Clamping of every workpiece geometry
I.D. and O.D. clamping

ENERGY EFFICIENT
Power consumption only while actuating the chuck

SENSITIVE CLAMPING
Changing of the clamping force without actuating the chuck

PLUG+PLAY
Easy setup

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**RT e-motion**

Electromechanical Tombstone with 8 integrated drives

- **Flexible:** Each clamping device individually controllable in force and way
- **Sensitive clamping:** Change of clamping force without relaxation of the workpiece
- **Energy efficient:** Energy only needed while operating the clamping device
- **Universal:** Can be equipped with different clamping devices
- **Plug & Play:** Easy set up
- **Fully sealed and low maintenance**

**Wireless transmission:** Transmission of energy and data by inductive Coupler (Base - Remote)

**Arrangement of tension drives**

Per clamping station - one electromechanical drive

**Example:**

RT e-motion with 4 clamping stations

A) Clamping device 1
B) Clamping device 2
C) Clamping device 3
D) Clamping device 4
E) Clamping device 5
F) Clamping device 6
G) Clamping device 7
H) Clamping device 8

Each clamping device with own electromechanical drive. All clamping devices are individually configurable.
Clamping glossary

**Individual control:** The RT e-motion tombstone has several clamping stations. This allows the placement of different clamping devices which are actuated by an axial clamping stroke. In addition, the separately placed drives for each clamping station allow a separated approach of each clamping device in force and way.

**Sensitive clamping:** The individual drives are separately programmable via the controller. This has the advantage that e.g. in a complete machining, matching the clamping process (rough machining, smoothing etc.), the required clamping force is infinitely variable.

**Exchange connectivity:** Simple and fast exchange of all SMW e-motion products with the same Coupler system.

**Wireless transmission:** The contactless / inductive Coupler system ensures the complete energy supply. It also transmits all sensor data - This ensures a secure (without cable), fast data exchange in real time between machine control and clamping device / tombstone.

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Function of the inductive coupler

**Inductive transmission of energy and data**

![Diagram of inductive coupler](image)

- Clamping device (rotating)
- Transmission of energy
- Transmission of data
- Air gap ≤ 2,5 mm
- Machine table (rotating)
- Console Coupler Base (static)

**Remote** (rotating) Id. No. 208005

**Base** (static) Id. No. 208004

Exchange connectivity

**Exchange between SMW-AUTOBLOK e-motion model series possible**

All products of the SMW-AUTOBLOK e-motion model series are based on the same Inductive Coupler platform. A Base Coupler firmly installed in the machine can connect wirelessly to any Remote Coupler on a SMW-AUTOBLOK e-motion clamping device.

**Interface**

**MM e-motion**

Coupler Remote A²

**MM e-motion** 4-jaw chuck

**Remote** (rotating with clamping device)

**Base** (statically installed in the machine)

**Interface**

**RT e-motion**

Tombstone

**Interface RT e-motion**

Coupler Remote A¹

**Interface machine table / pallet**

**Coupler Base**

Easy exchange possible e.g. by pallet

Example: Exchange connectivity from RT e-motion to MM e-motion
Electromechanical tombstone

- Each clamping device can be controlled individually
- Wireless transmission of energy and data via inductive Coupler system
- Clamping stations can be equipped individually
- Permanent monitoring of the clamping force and clamping positions
- Various strokes and forces individually programmable
- Plug & Play

Application/customer benefits
- Each clamping device can be controlled individually
- Wireless transmission of energy and data via inductive Coupler system
- Clamping stations can be equipped individually
- Permanent monitoring of the clamping force and clamping positions
- Various strokes and forces individually programmable
- Plug & Play

Technical data
- Sensitive clamping / change of the clamping force without unclamping the workpiece
- Fully sealed – low maintenance
- Max. operating force for each clamping device 35 kN
- Axial stroke for each clamping device 21 mm

Standard equipment
RT e-motion tombstone incl. electromechanical drives without clamping device

Occupy options of the clamping stations

<table>
<thead>
<tr>
<th>RT e-motion:</th>
<th>RT e-motion with clamping devices:</th>
<th>Different clamping devices</th>
</tr>
</thead>
</table>
| Display of tombstone incl. electromechanical drives without clamping devices. | Display of RT e-motion incl. electromechanical drives with clamping devices. | - Power vices  
- Power chucks  
- Pull-down chucks  
- Compensating chucks  
- Quick jaw change power chucks  
- 6-jaw chucks  
- Collet chucks  
- Grippers  
- Mandrels |

Order review / Plug & Play

- RT e-motion tombstone
- Inductive coupler (Base / Remote)
- AC-MM controller (2 pcs. needed)
- Cable set
Dimensions and technical data

Electromechanical tombstone

Subject to technical changes.
For more detailed information please ask our customer service.

<table>
<thead>
<tr>
<th>SMW-AUTOBLOK Type</th>
<th>RT e-motion</th>
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<tbody>
<tr>
<td>Id No.</td>
<td></td>
</tr>
<tr>
<td>Height A mm</td>
<td>934.5</td>
</tr>
<tr>
<td>Width B mm</td>
<td>550</td>
</tr>
<tr>
<td>Height tombstone C mm</td>
<td>854</td>
</tr>
<tr>
<td>Total width of clamping station D mm</td>
<td>360</td>
</tr>
<tr>
<td>Support width of clamping station E mm</td>
<td>250</td>
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<tr>
<td>Height baseplate F mm</td>
<td>40</td>
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<tr>
<td>Clamping station G mm</td>
<td>245</td>
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<tr>
<td>Clamping station H mm</td>
<td>610</td>
</tr>
<tr>
<td>Position mounting holes J mm</td>
<td>100</td>
</tr>
<tr>
<td>Max. actuation force kN</td>
<td>35</td>
</tr>
<tr>
<td>Max. effective axial actuation stroke mm</td>
<td>21</td>
</tr>
<tr>
<td>Number of clamping stations pcs</td>
<td>8</td>
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<tr>
<td>Weight (without clamping devices) kg</td>
<td>485</td>
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Customized designs on request.
<table>
<thead>
<tr>
<th>Notes</th>
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