

RT *e-motion*

Electromechanic Tombstone
with integrated drives

PROGRAMMABLE MOTION PROFILES

Clamping of every workpiece geometry
I.D. and O.D. clamping

ENERGY EFFICIENT

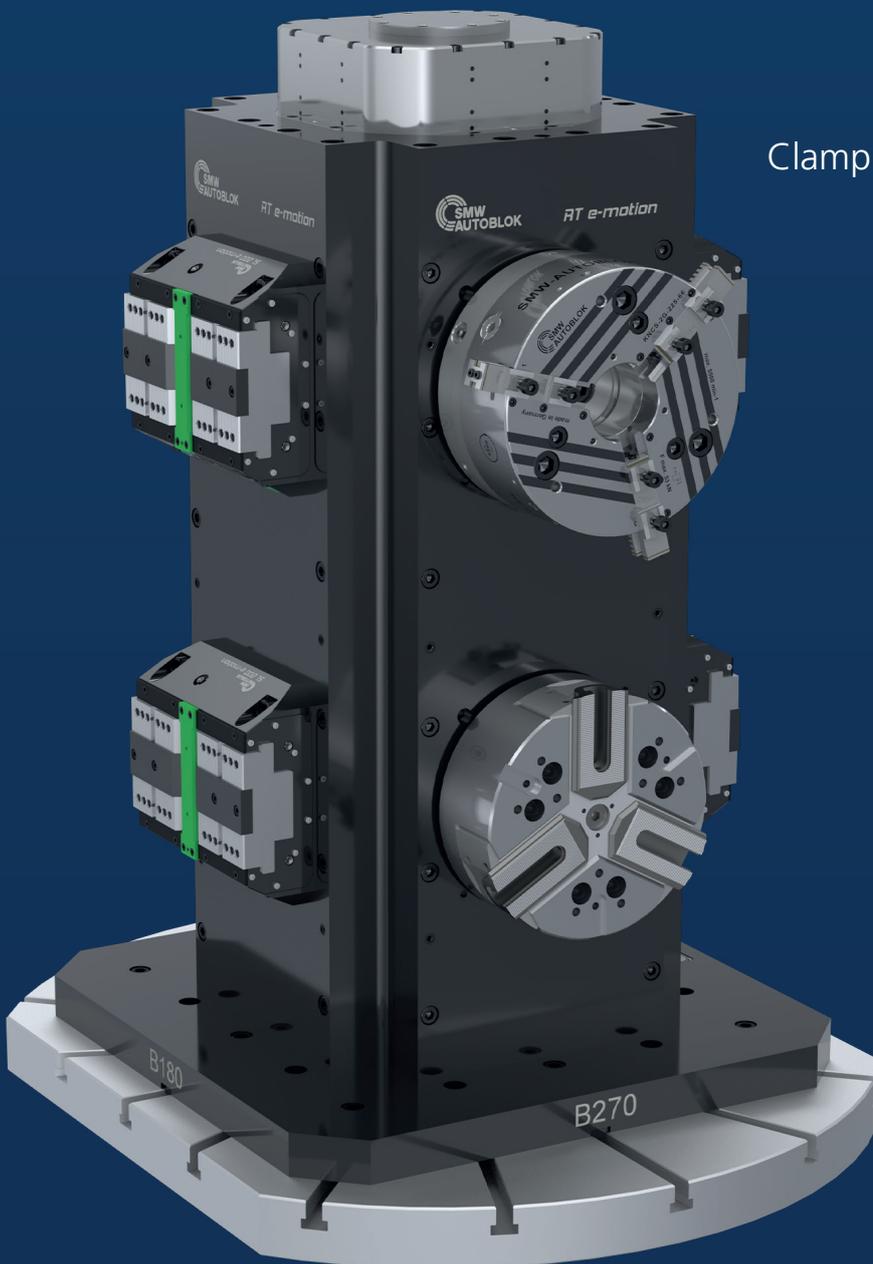
Power consumption only
while actuating the chuck

SENSITIVE CLAMPING

Changing of the
clamping force without
actuating the chuck

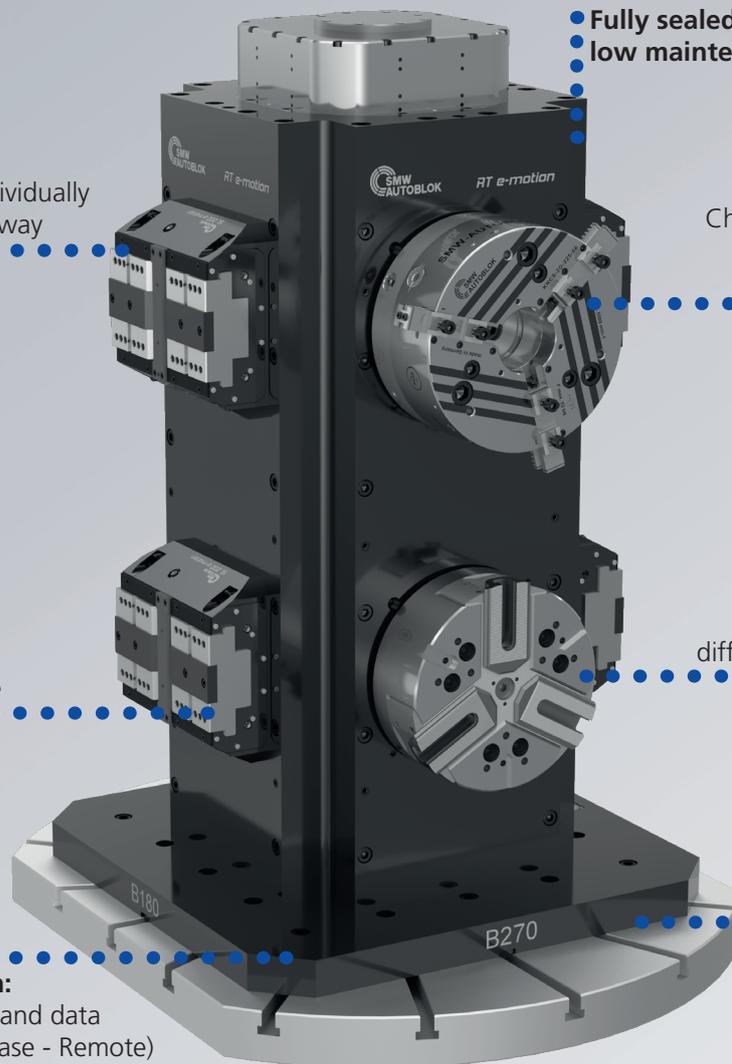
PLUG+PLAY

Easy setup



RT e-motion

Electromechanical Tombstone with 8 integrated drives



- Fully sealed and low maintenance

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:

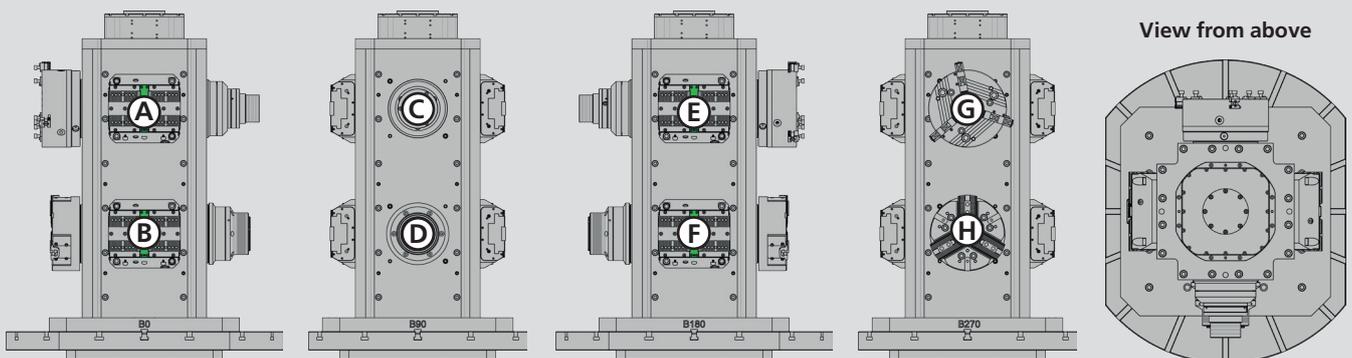
Easy set up

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**.

Sealing: The tension drives of the RT *e-motion* tombstone are fully sealed and **protected against the ingress of dirt and coolant**. This prevents inaccuracies and malfunctions and makes the system exceptionally safe to operate and low maintenance.

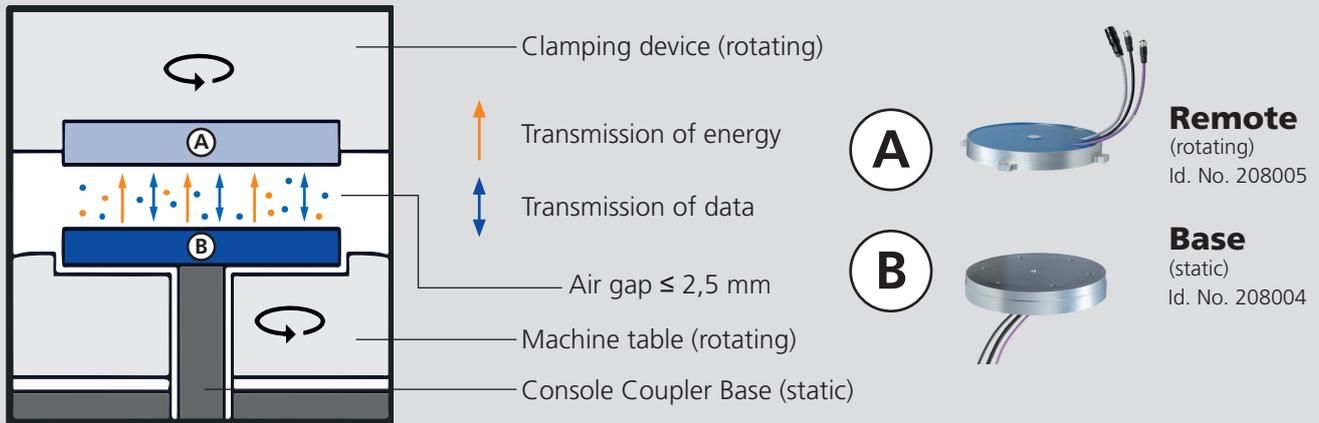
Sensitive clamping: The individual drives are **separately programmable** via the controller. This has the advantage that e.g. in a complete machining, matching the clamping process (rough machining, smoothing etc.), the **required clamping force is infinitely variable**.

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.

Function of the inductive coupler

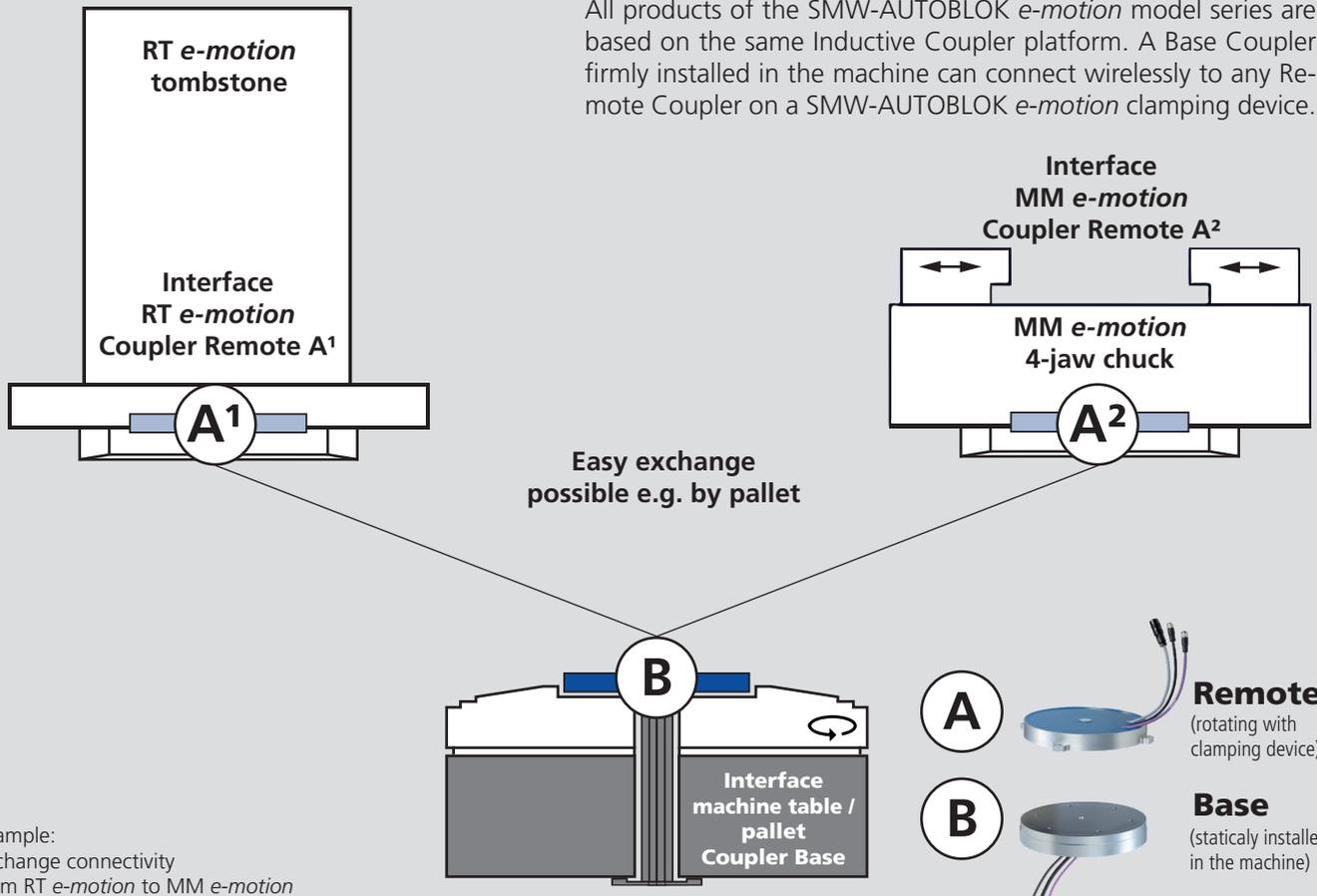
Inductive transmission of energy and data



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.



Example:
Exchange connectivity
from RT *e-motion* to MM *e-motion*

- Each clamping device can be controlled individually
- Wireless transmission of energy and data



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

Occupancy options of the clamping stations

RT e-motion:

Display of tombstone incl. electromechanical drives without clamping devices, assignment of individual clamping devices.



RT e-motion with clamping devices:

Display of RT e-motion incl. electromechanical drives with clamping devices.



Different clamping devices

RT e-motion:

- 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



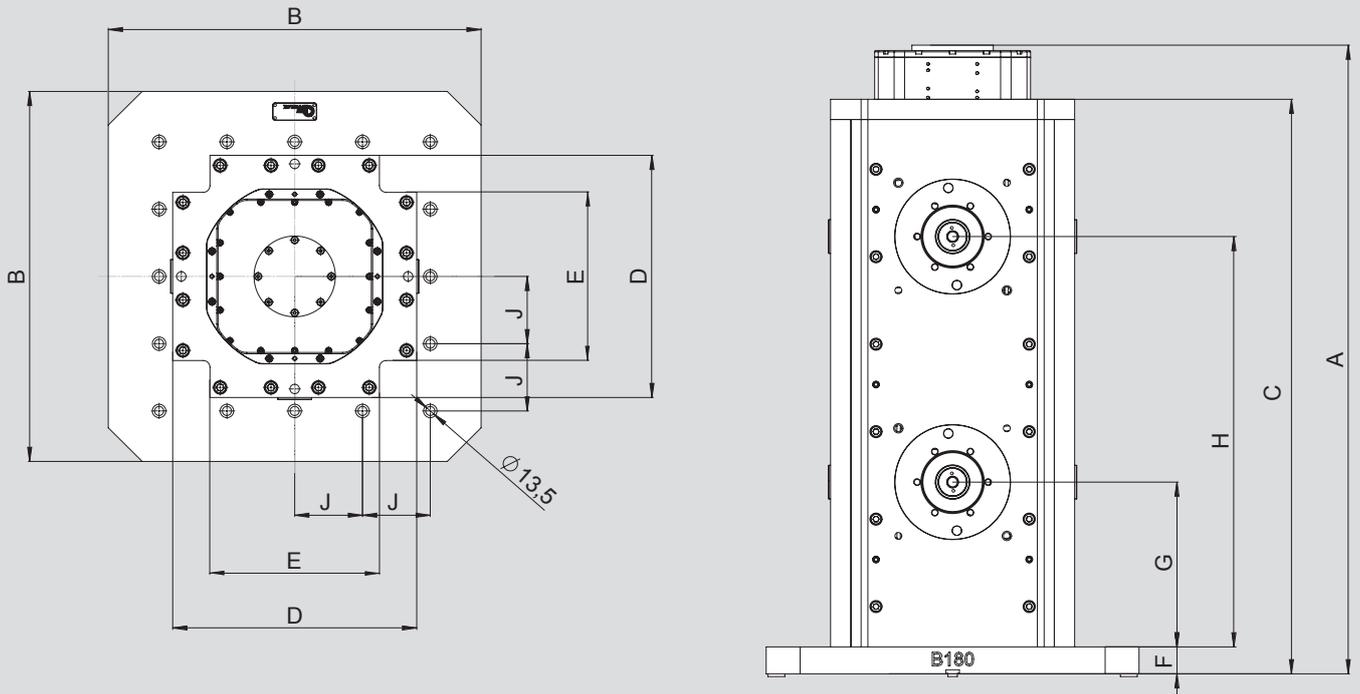
Inductive coupler
(Base / Remote)



AC-MM controller
(2 pcs. needed)



Cable set



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

SMW-AUTOBLOK Type		RT e-motion
Id No.		463080
Height	A mm	934.5
Width	B mm	550
Height tombstone	C mm	854
Total width of clamping station	D mm	360
Support width of clamping station	E mm	250
Height baseplate	F mm	40
Clamping station	G mm	245
Clamping station	H mm	610
Position mounting holes	J mm	100
Max. actuation force	kN	35
Max. effective axial actuation stroke	mm	21
Number of clamping stations	pcs.	8
Weight (without clamping devices)	kg	485

Customized designs on request.

Notes

A series of horizontal stripes in two shades of blue, alternating between a medium blue and a light blue. The stripes are uniform in width and extend across the entire width of the page, providing a template for writing notes.

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