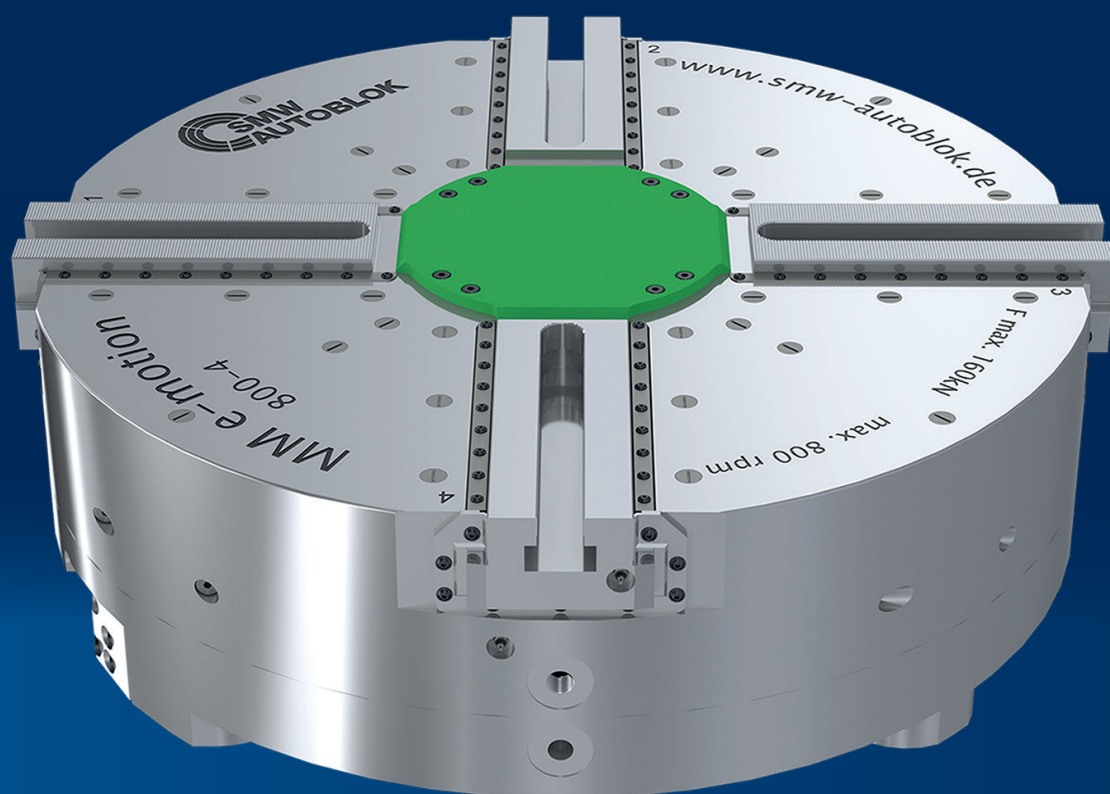


MM *e-motion*

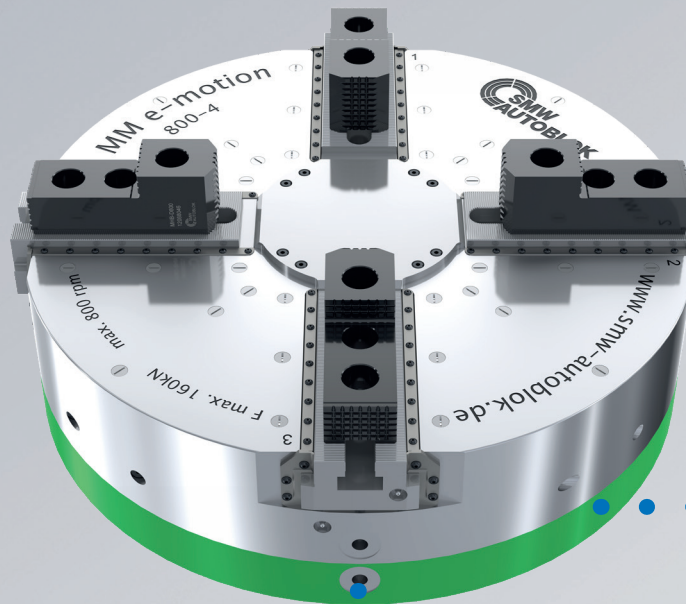
MECHATRONIC POWER CHUCK

Universal Clamping
Sensitive Clamping
Motion profiles
Energy efficient



MM e-motion

4 Mechatronic
individual jaw drives



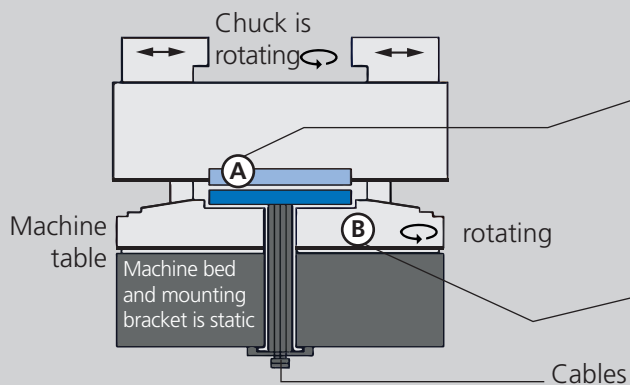
Standard
jaw interface

Sealed and low
maintenance

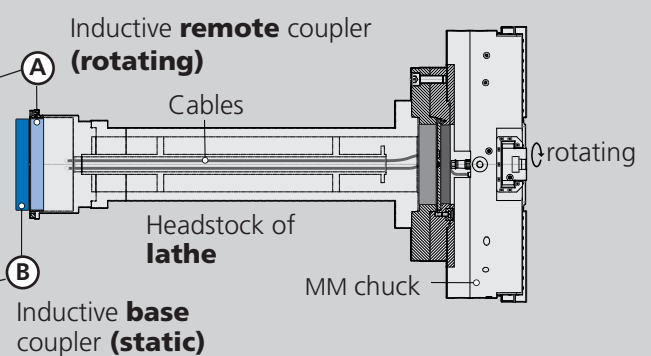
Cable connection
to remote coupler

Schematic of chuck and coupler system

Application on
vertical millturn center:

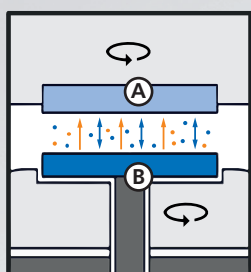


Application on
horizontal lathe:



Function of the inductive coupler system

Inductive transmission of energy and data



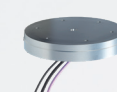
→ Power transmission
↔ Transmission of signals
Airgap ≤ 2.5 mm

A



Remote
(rotating)
Id.-Nr. 208005

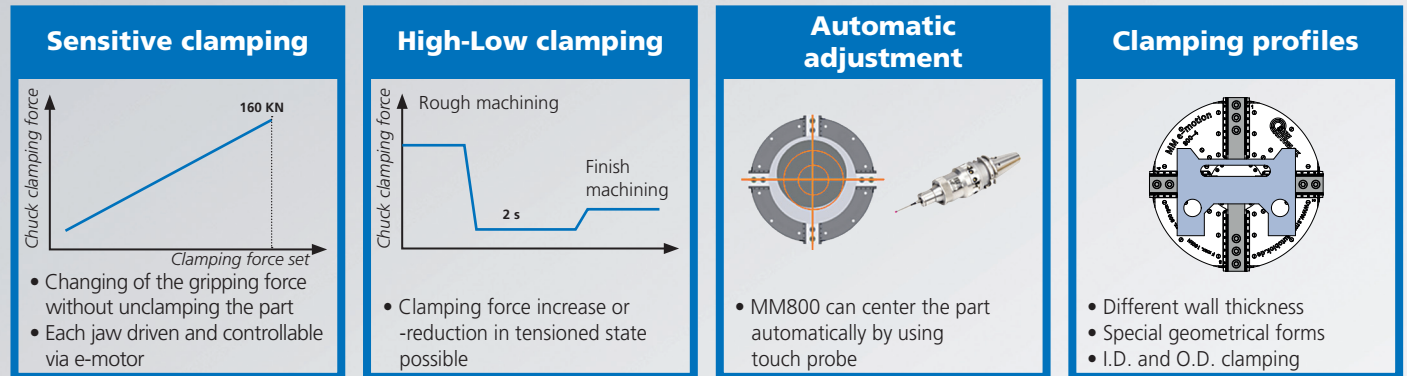
B



Base
(static)
Id.-Nr. 208004

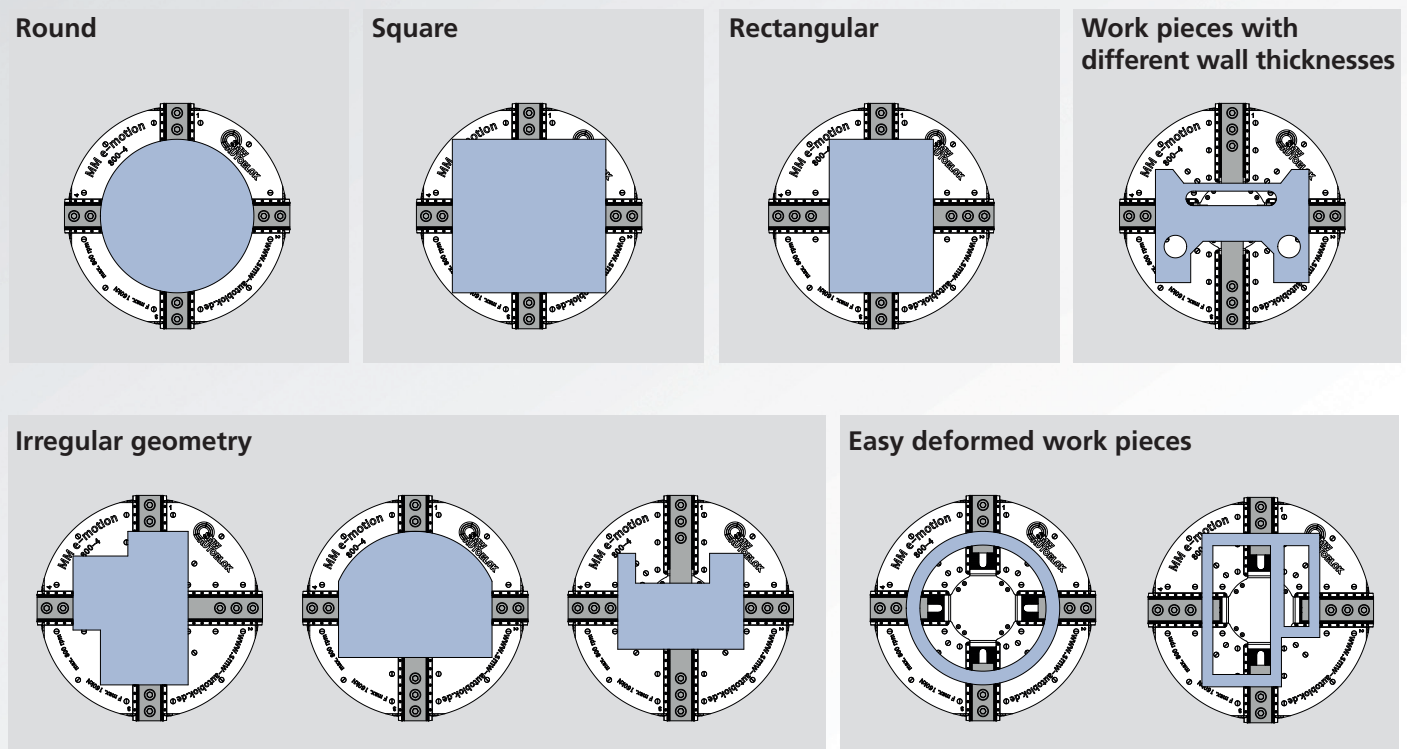
Benefits to the user

- For deformation-sensitive and high-precision workpieces
- For a wide range of workpiece geometries
- Clamping repeatability < 5 µm



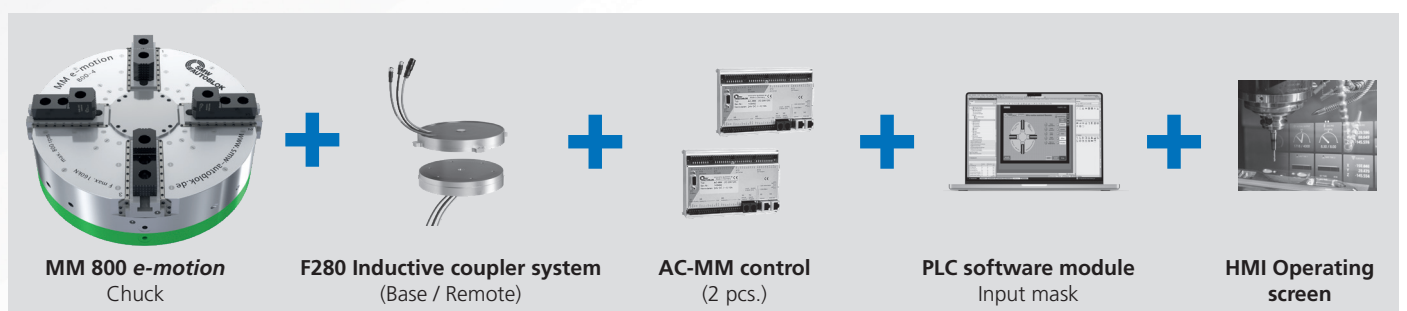
Motion profiles

Clamping of different work piece geometries



Plug & Play

Full solution MM e-motion



MM e-motion

INCH SERRATION

Mechatronic power chuck

- Mechatronic single jaw drive
- Automatic correction function

Application/customer benefits

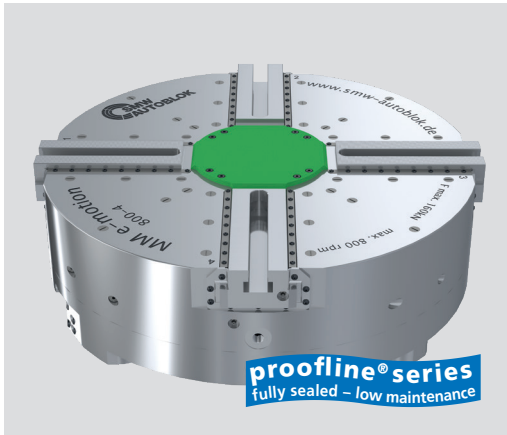
- Mechatronic single jaw drive
- Precise clamping force adjustment
- High-Low clamping possible
- Auto correction of the workpiece center
- Contact free transmission of power and signals via inductive coupler system
- e-sensing: inductive component detection / distance measurement (optional)
- Plug & Play

Technical features

- O.D. and I.D. clamping
- Programmable movement profiles of the jaws
- 2-fold safety system (STO and mechanical)
- Clamping repeatability < 5 µm
- **proofline®** = fully sealed - low maintenance

Standard equipment

4-jaw chuck



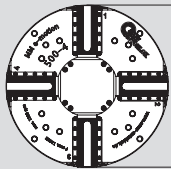
MM e-motion

- Each jaw is operated and controlled via an individual electro motor
- Inductive wireless transmission of power and sensor system
- Auto correction of the work piece center
- Permanent monitoring of grip force and clamping position also under rotation
- Fully sealed, low maintenance

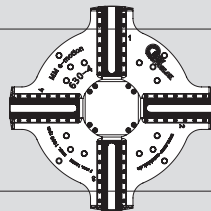
MM e-motion LightWeight

- MM e-motion LightWeight (LW): weight optimized version
- Same functionality as MM e-motion
- Less chuck weight allows higher work piece weight
- Lower chuck profile allows more useable Z stroke
- Monoblock chuck body for highest rigidity

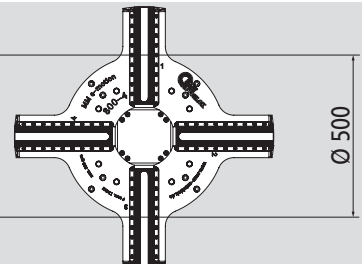
Overview of sizes



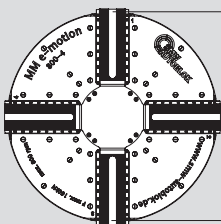
MM 500 e-motion



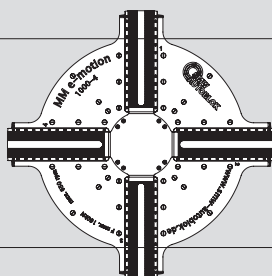
MM 630 e-motion LW



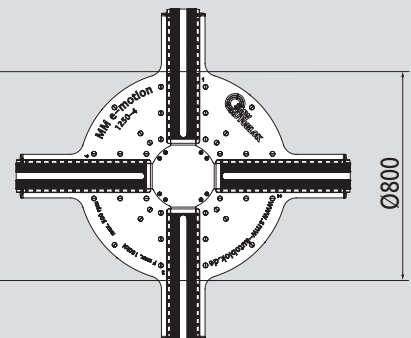
MM 800 e-motion LW



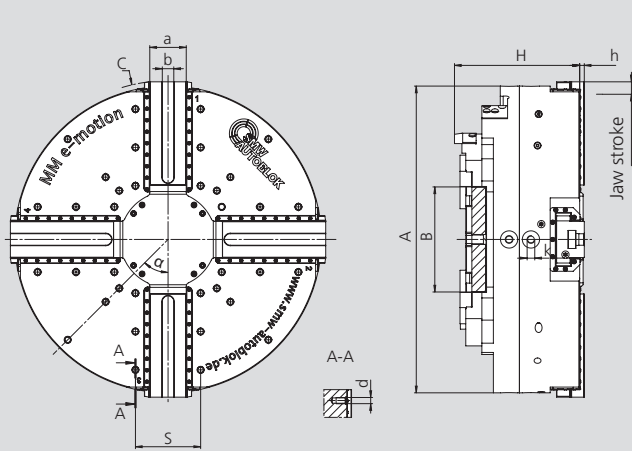
MM 800 e-motion



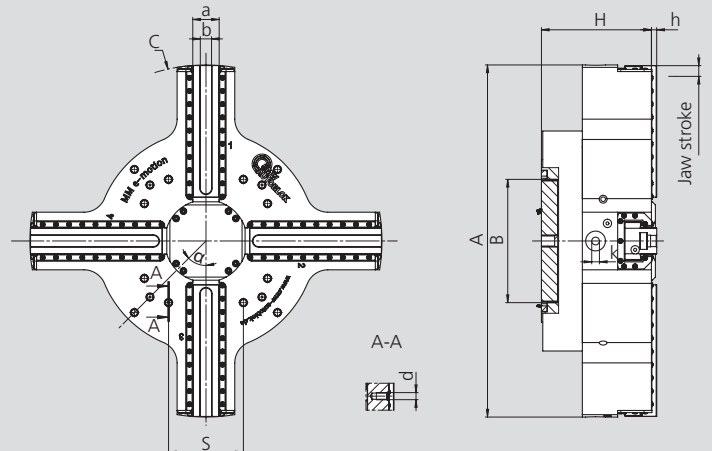
MM 1000 e-motion LW



MM 1250 e-motion LW



MM e-motion



**MM e-motion
LightWeight (LW)**

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

Type		MM 500 e-motion	MM 630 e-motion LW	MM 800 e-motion LW	MM 800 e-motion	MM 1000 e-motion LW	MM 1250 e-motion LW
Id. No.		055739			055270		
Chuck size	A mm	500	630	800	800	1000	1250
Inductive coupler diameter	B mm	280	280	280	280	280	280
Interference Ø	C mm	500	630	800	828	1028	1278
Chuck height	H mm	250	250	250	326.5	326.5	326.5
	S mm	180	180	170	170	170	170
	a mm	55	55	55	95	95	95
	b mm	21 H7	21 H7	21 H7	30 H7	30 H7	30 H7
	d mm	M16 (24x)	M16 (24x)	M16 (24x)	M16 (36x)	M16 (36x)	M16 (36x)
	h mm	12	12	12	12	12	12
	α deg.	45	45	45	45	45	45
Speed max.	min ⁻¹	1200	1000	800	800	650	500
Grip force max.	kN	100	100	100	160	160	160
Jaw stroke per jaw	mm	10	10	10	15	15	15
Moment of inertia	kg·m ²	10.7	12.5	19.1	62.5	79.8	110.6
Weight (without top jaws)	kg	282	310	360	770	850	950

Notes

Notes



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