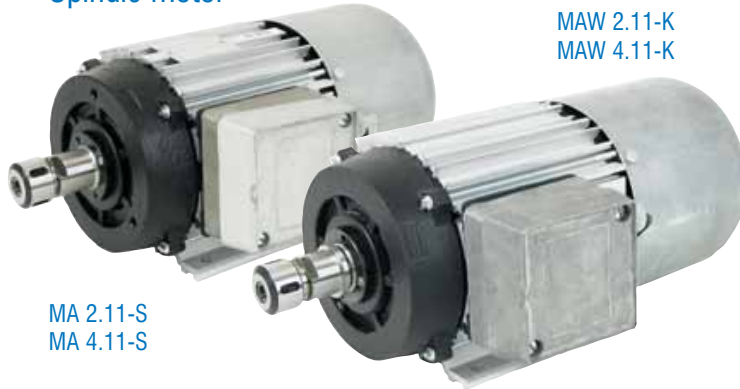


Main Spindle Drives - Asynchronous

Spindle motor



MA 2.11-S
MA 4.11-S

MAW 2.11-K
MAW 4.11-K

- Nominal power output **1,100 W**
- Speed range
300...13,000 min⁻¹ / 200...6,000 min⁻¹ *
- Nominal torque **2.8 / 8.0 Nm ***
- Tool changing **manually with collets (-S)**
and/or automatically (-K)
- Overall size **71**

* In each case, the first value applies for MA 2.11-S/MAW 2.11-K and the second value for MA 4.11-S/MAW 4.11-K

Technical data

Description	Item no. (high-strength cable gland)	Item no. (circular plug-in connector)	Speed range min ⁻¹	Number of poles	Nominal voltage	Nominal power output kW (S 6-40%)	Nominal speed min ⁻¹	Continuous output S1 kW	Concentri- city 1/100 mm	Weight kg	Tool holder K=collets holder (SK 20) S=collets	Recommen- ded converter
MA 2.11-S	477711 1113	477711 3113	300-13,000	2	3 x 210 V	1.1	4,200	0.75	2.0	11.0	S (ø 3-10 mm)* ¹	F5 upon request
MA 4.11-S	477711 1106	477711 3106	200-6,000	4	3 x 210 V	1.1	2,250	0.75	2.0	11.0	S (ø 3-10 mm)* ¹	F5 upon request
MAW 2.11-K	477711 1313	477711 3313	300-13,000	2	3 x 210 V	1.1	4,200	0.75	2.0	11.0	K (ø 3-12.7 mm)* ²	F5 upon request
MAW 4.11-K	477711 1306	477711 3306	200-6,000	4	3 x 210 V	1.1	2,250	0.75	2.0	11.0	K (ø 3-12.7 mm)* ²	F5 upon request

*¹ Collets 6 mm are included in the spindle's scope of delivery

*² Collets holder SK 20 with collets 6 mm is included in the spindle's scope of delivery

Main spindle drive

Description	Item no.
Main spindle drive HSA 2.11-SF	310711 1511
Main spindle drive HSA 4.11-SF	310711 1512

The scope of delivery includes:

- spindle motor **MA 2.11-S / MA 4.11-S**
- frequency converter F5
- connecting line converter-motor (length = 8 m)
- hook spanner
- wrench
- collets (diameter = 6 mm)
- box nut

Main spindle drive

Description	Item no.
Main spindle drive HSAW 2.11-KF	310711 3511
Main spindle drive HSAW 4.11-KF	310711 3512

The scope of delivery includes:

- spindle motor **MAH 2.11-KF / MAW 4.11-K**
- frequency converter F5
- connecting line converter-motor (length = 8 m)
- throttle
- hook spanner
- maintenance unit
- wrench
- connecting panel
- collets (diameter = 6 mm)
- air hose
- collets holder