

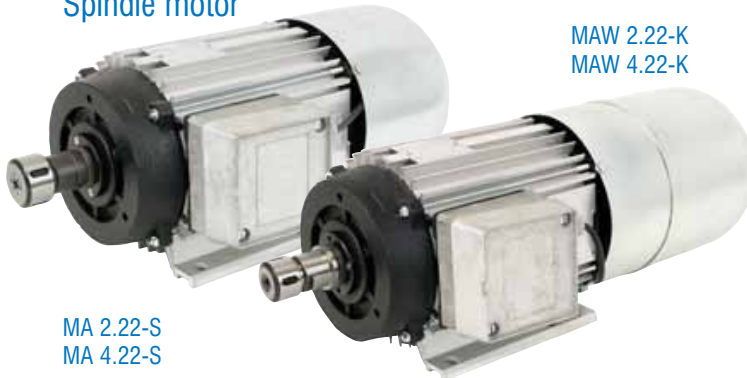
Main Spindle Drives - Asynchronous

HSA 2.22-SF
HSA 4.22-SF

HSAW 2.22-KF
HSAW 4.22-KF

systems

Spindle motor



MA 2.22-S
MA 4.22-S

MAW 2.22-K
MAW 4.22-K

- Nominal power output **2,200 W**
- Speed range
300...13,000 min⁻¹ / 200...6,000 min⁻¹ *
- Nominal torque **7.5 / 15.1 Nm ***
- Tool changing **manually with collets (-S)**
and/or **automatically (-K)**
- Overall size **80**

* In each case, the first value applies for MA 2.22-S/MAW 2.22-K and the second value for MA 4.22-S/MAW 4.22-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 (S6-40%)	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 2.22-S	477822 1113	477822 3113	300-13,000	2	3 x 400 V	2.2	4,500	1.5	2.0	18.0	S (ø 3-12.7 mm) ^{*1}	F5 upon request
MA 4.22-S	477822 1107	477822 3107	200-6,000	4	3 x 400 V	2.2	2,250	1.5	2.0	18.0	S (ø 3-12.7 mm) ^{*1}	F5 upon request
MAW 2.22-K	477822 1313	477822 3313	300-13,000	2	3 x 400 V	2.2	4,500	1.5	2.0	18.0	K (ø 3-12.7 mm) ^{*2}	F5 upon request
MAW 4.22-K	477822 1307	477822 3307	200-6,000	4	3 x 400 V	2.2	2,250	1.5	2.0	18.0	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 2.22-SF	310722 1511
Main spindle drive HSA 4.22-SF	310722 1512

The scope of delivery includes:

- spindle motor **MA 2.22-S / MA 4.22-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 2.22-KF	310722 3511
Main spindle drive HSAW 4.22-KF	310722 3512

The scope of delivery includes:

- spindle motor **MAW 2.22-K / MAW 4.22-K**
- frequency converter F5
- connecting line converter-motor (length = 8 m)
- throttle
- hook spanner
- maintenance unit
- wrench
- connecting panell
- collets (diameter = 6 mm)
- air hose
- collets holder