

Spindle motor iSA 2200 WS



iSA 2200 WS | Spindle motor with automatic tool changer and monitoring sensors

- robust 2-pole AC motor (asynchronous motor)
- square shape
- protection class IP55, insulation class F
- M23 plug connection
- cast end shield A and B sides
- tool change SK 20 pneumatic (7,5 bar)
- incl. ER 20 collet, Ø 6 mm
- clamping range Ø 2 mm – Ø 13 mm
- intrinsic ventilation B-side
- two precision bearings
- controlled by frequency converter
- fitting holes Ø 6 mm (± 0.1) for easy spindle replacement
- probe for manual tool change
- standstill monitoring of the motor shaft
- sensors for tool holder clamped or loose
- taper cleaning

Technical specification

Torque [Nm] (at rated speed 22,000 rpm)	1.26
Speed range [U/min.]	5,000 – 20,000
Cut-off frequency* [Hz] / Speed [U/min.]	300 / 18,000
Number of poles	2
Rated voltage [V]	3 x 230 (star connection)
Rated current [A]	7.6
Power factor (cos ϕ)	0.84
Rated power [kW] (S6 = 40% Operation)	2.2
Concentricity [mm]	0.01
Weight [kg]	14.6

*cut-off frequency = frequency to which the motor effect is designed.

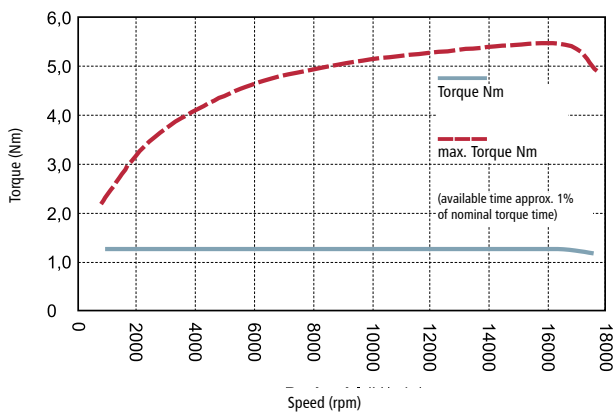
Options

- CoolMin[®] (external)
- CoolMin[®] (internal) with internal mold cooling
- frequency converter SKC 1500
- tool changing station
- suction device
- various collets ER 20
- mounting plates
- connection cable in different lengths
- sealing air connection



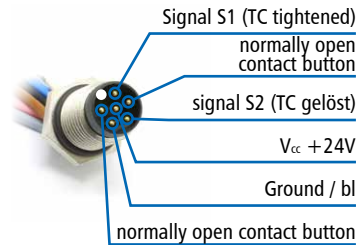
iSA 2200 WS
with CoolMin[®] internal

Torque curves

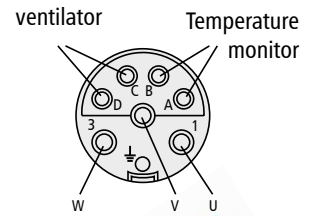


Motor connection

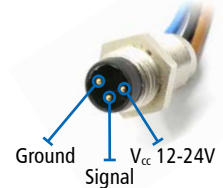
Sensor connector tool changer (M8: 6-pole)



Circular connectors (7-pole + PE)



Sensor output for standstill monitoring the motor shaft (M8: 3-pole)



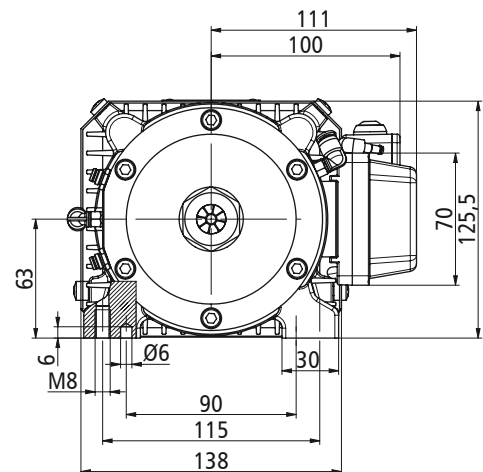
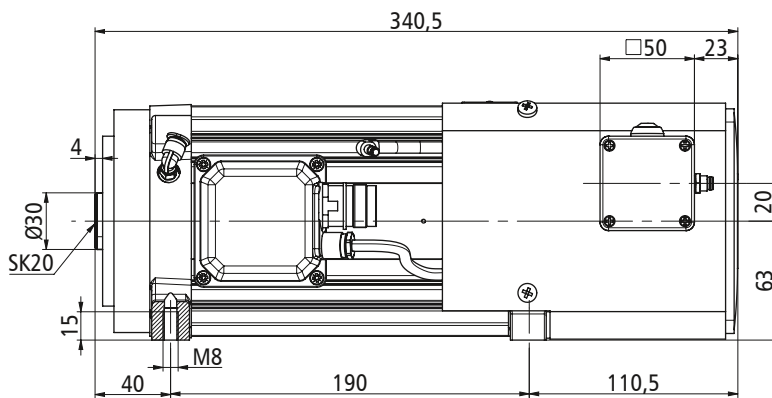
Technical data of the two independent sensors:

Supply voltage Vcc = 12-24 V/DC ; Current = 0.2 A

Sensor output during shaft rotation = 0 V = Low-Signal

Sensor output at shaft standstill = Vcc = High-Signal / I max. 30 mA

Dimensional drawing



Order data

		Part no.
Spindle motor ISA 2200 WS	with collet ER 20 (6 mm)	477022 3320S
	with converter** and connecting cable (8 m), incl. collet ER 20 (6 mm)	310722 3621S
	with CoolMin [®] , incl. collet ER 20 (6 mm)	477022 5320
	with converter** and connecting cable (8 m) and CoolMin [®] , incl. collet ER 20 (6 mm)	310722 3631
CoolMin [®]	external	239011 0119
Frequency converter	SKC 1500	311715 6000
Collet Set	ER 20 (2.0 / 3.0 / 4.0 / 5.0 / 6.0 / 7.0 / 8.0 / 9.0 / 10.0 / 11.0 / 12.0 / 13.0 mm)	239172 0001
Tool change station***	linear SK 20, 4-port	239011 0041
	linear SK 20, 8-port	239011 0081
	round SK 20, 14-port	239100 6630
Tool holder	SK 20 (for collet ER 20)	239172 0020
Suction device	prepared for Ø 80 mm hose	239012 0002
	prepared for Ø 80 mm hose, with external tool cooling	239012 0003
Mounting plates isel systems (Z axis)	for EuroMod / FlatCom	277028 0004
	for linear unit LES 5	277028 0005

**converter pre-set for spindle

***special changing stations on request