

Spindle motor iSA 1500 WL



iSA 1500 WL | Spindle motor with automatic tool changer

- robust 2-pole AC motor (motor shaft hardened)
- square shape
- protection class IP 55, 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

Technical specification

Torque [Nm] (at rated speed 22,000 rpm)	2.5
Speed range [U/min.]	1,000 – 20,000
Cut-off frequency* [Hz] / Speed [U/min.]	100 / 6,000
Number of poles	2
Rated voltage [V]	3 x 230 (star connection)
Rated current [A]	6.0
Power factor (cos φ)	0.85
Rated power [kW] (S6 = 40% Operation)	1.5
Concentricity [mm]	0.01
Weight [kg]	14.0

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

Special torque design for drilling and countersinking
in the low speed range.

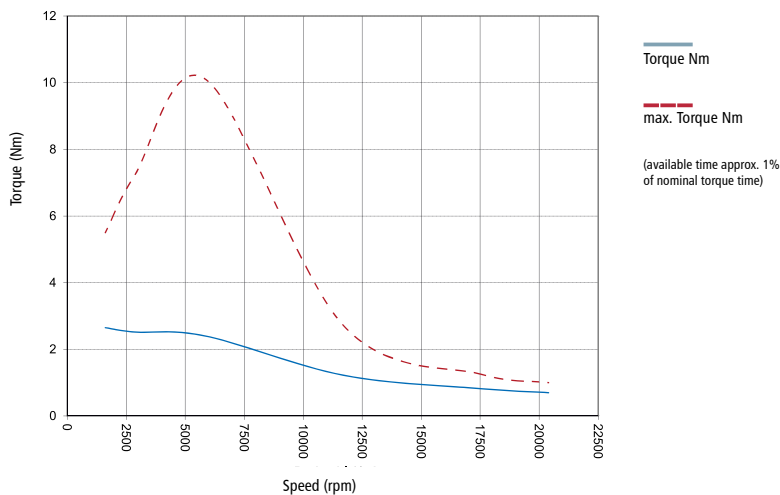
Options

- sensory module
- CoolMin[®] (internal and external)
- frequency converter SKC 1500
- tool changing station
- various collets ER 20
- mounting plates
- connection cable in different lengths
- sealing air connection

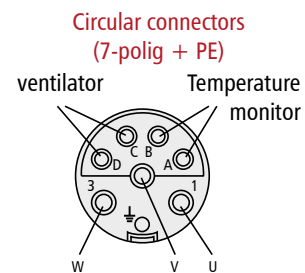


iSA 1500 WL
with CoolMin[®] internal

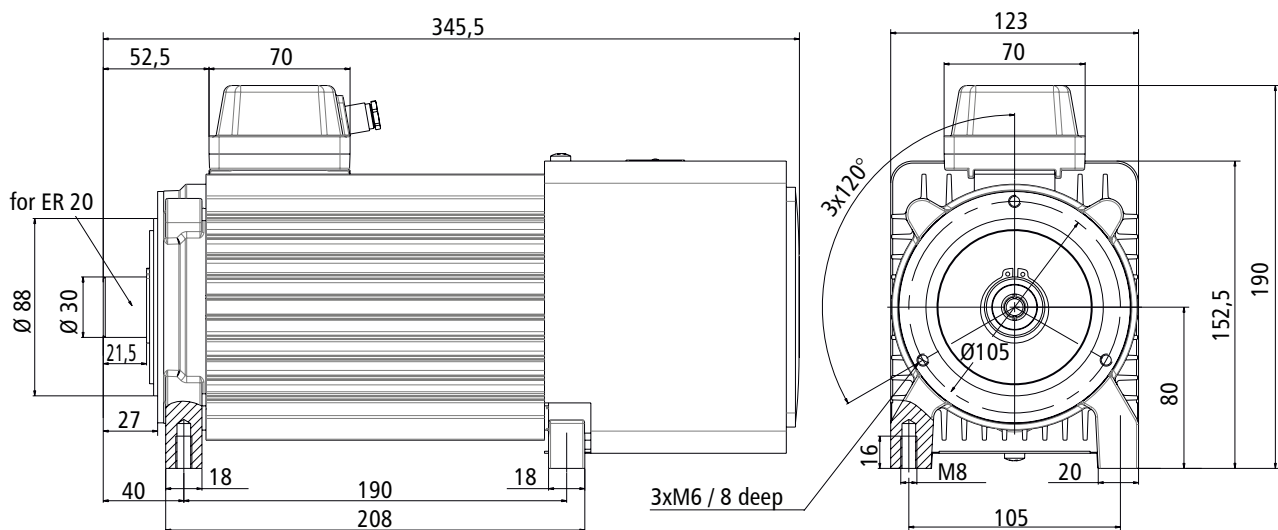
Torque curves



Motor connection



Dimensional drawing



Order data

Order data		Part no.
Spindle motor	with collet ER 20 (6 mm)	477015 3320
iSA 1500 WL	with converter** and connecting cable (8 m), incl. collet ER 20 (6 mm)	310715 3621
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
Mounting plates	for EuroMod / FlatCom	277028 0019
	for linear unit LES 5	277028 0018

converter pre-set for spindle *special changing stations on request