

Spindle Motor

iSA 500



iSA 500 with manual tool change



iSA 500 with manual tool change and CoolMin tool cooling system

Features

- Robust two-pole AC motor (asynchronous motor)
- Rectangular design, protection class IP54, isolation class F
- Casting bearing plate on A-side
- Aluminium diecasting B-side
- Special shaft for holding drills and milling tools
- Nominal output 0.5 kW (S6-40% mode)
- Speed range 5,000 - 30,000 rpm
- Manual tool change
- Clamping range $\varnothing 3 \text{ mm} - \varnothing 6,35 \text{ mm} = 1/8''$
- Self-ventilation on B-side
- Speed control by frequency converter
- Spindle bearing: 2 bearings on A-side (milling side) 1 bearing on B-side (fan side)

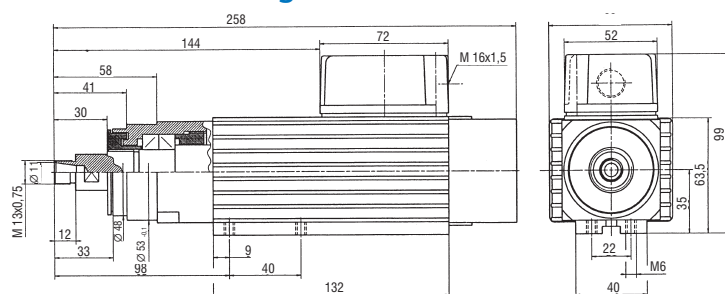
Options:

- CoolMin (internal and external)
- Mounting plate
- Different collets

Technical Data

Description		iSA 500
Torque at nominal speed 18,000 rpm	[Nm]	0,21
Speed	[rpm]	5,000 to 30,000
Number of poles		2
Nominal voltage	[V]	3 x 220
S 6 = 40 % Nominal power	[kW]	0.5
Concentricity	[mm]	0.01
Weight	[kg]	3.0

Dimensioned Drawings



Order Data

Spindle motor iSA 500,
with collet $\varnothing 6 \text{ mm}$
Part number **477004 3130**

CoolMin external with segment hose
Part number **239011 0119**

Spindle motor iSA 500
with frequency converter
Part number **310704 1611**

Spindelmotor iSA 500
with frequency converter and CoolMin
(internal version)
Part number **310704 1631**

Collets, type ER 11
 $\varnothing 3.0 \text{ mm}$
Part number **239170 3000**
 $\varnothing 3.175 \text{ mm}$
Part number **239170 3175**
 $\varnothing 6.0 \text{ mm}$
Part number **239170 6000***
 $\varnothing 6.350 \text{ mm}$
Part number **239170 6375**

* contained in the iSA 500 standard scope of supply

Technical Data Universal Milling/Drilling Motor UFM

	Part number	Load speed min ⁻¹	Voltage V	Degree of efficiency %	Input power W	Output power W	Torque Nm
UFM 500	420003 0500	22,600	230	68	500	345	0.14
UFM 1050	420003 1050	21,000	230	71	1,050	720	0.32

suitable collets available

Clamping Blocks

Clamping blocks / Mounting raster	Part number
Mountings 100 and 150 mm	290 902
Mounting 100 mm	290 903
Mounting 125 mm	290 904



UFM 500

Subject to technical modifications without prior notice.