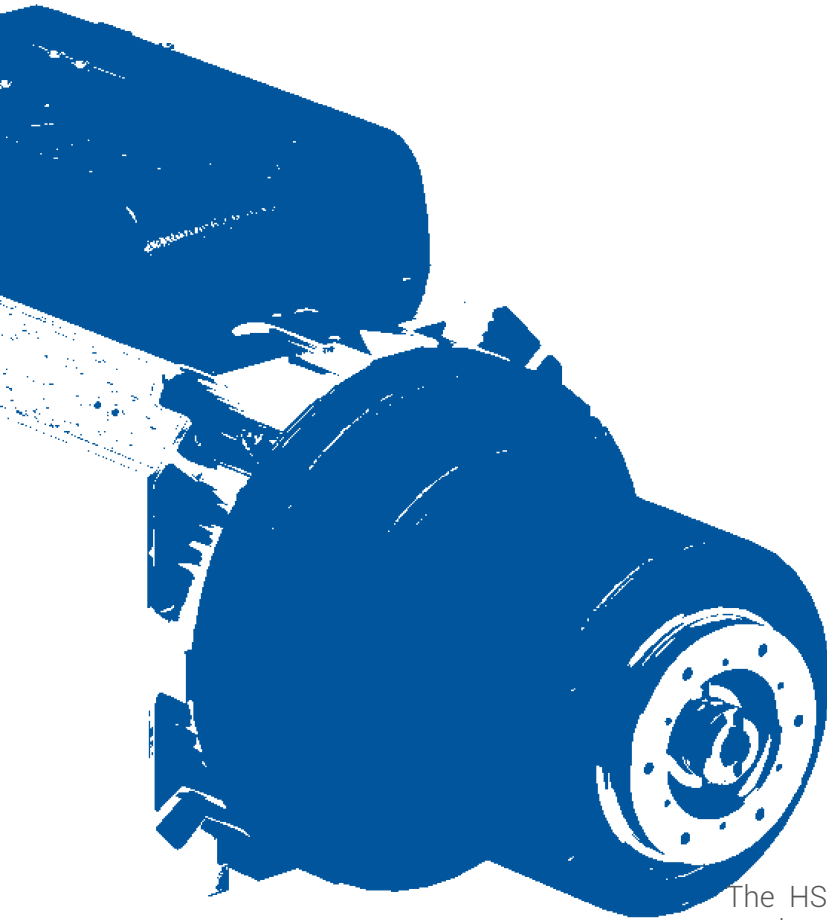




ES9 LINE

The HSD **ES9 Line** of electrospindles has state-of-the-art products for high-precision machining in the wood and composite materials sector.

This family of products has been designed to offer an optimal balance between performance, technology and cost, responding to the needs of an increasingly competitive market.

The **ES9** electrospindles offer the possibility to choose between air or liquid cooling systems, ensuring optimal thermal management according to the specific needs of the application.

Some models , as an option, are equipped with wireless IoT connectivity for remote monitoring and diagnostics of its operating status.

MATERIALS



LIGHT
ALLOY



WOOD



PLASTIC &
COMPOSITE

APPLICATIONS



MILLING



CUTTING



DRILLING



TAPPING

TARGET MACHINES



DRILLING
MACHINE



3/4 AXIS
MACHINE
CENTER



ROBOT



ROUTER
CNC



ES920

Essential / Reliable / Multi-purpose

MATERIALS



LIGHT
ALLOY



WOOD



PLASTIC &
COMPOSITE

APPLICATIONS



MILLING



CUTTING



DRILLING



TAPPING

TARGET MACHINES



DRILLING
MACHINE



3 AXIS
MACHINE
CENTER



ROBOT



ROUTER
CNC

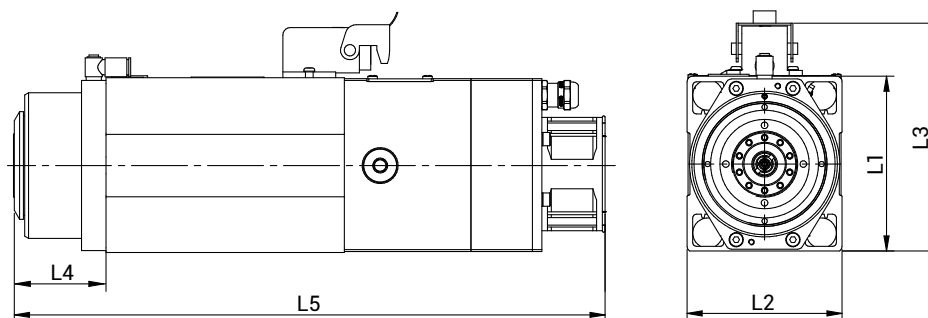
TECHNICAL DATA

	ES920 1.1 kW	ES920 2.2 kW
Body dimension [mm]	82x92,5	82x92
Max speed [rpm]	24.000	30.000
Motor type	Asynchronous	Asynchronous
Torque S1/S6 (40%) [Nm]	0.6 / 0.7	0.9 / 1.1
Power S1/S6 (40%) [kW]	1.1 / 1.4	2.2 / 2.6
Tool interface	ISO 20	ISO 20
Cooling	Electric Fan / Compressed Air	Electric Fan / Compressed Air / Liquid
Bearings lubrication	Grease	Grease
Weight [kg]	7	7,5

OPTIONAL

	ES920 1.1 kW	ES920 2.2 kW
Coolant through shaft	No	No
Air tool	No	No
Vibration sensor	No	No
Thermal sensor on front bearings	No	No
Shaft kit	No	No
Aggregate anti-rotation flange	No	No
Wi-fi Connection & myHSD	No	No
Encoder	No	No

DIMENSIONS

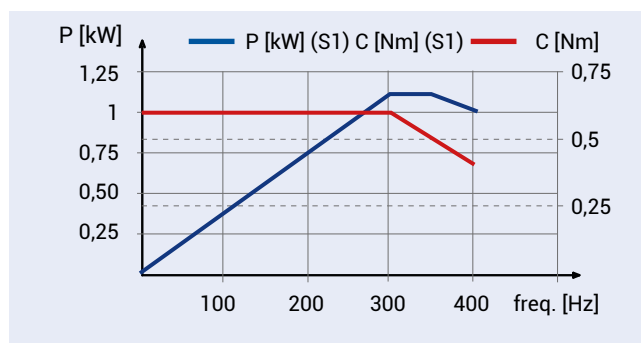


	ES920 1.1 kW	ES920 2.2 kW
L1 (mm)	92,5	92,5
L2 (mm)	82	82
L3 (mm)	120,5	120,5
L4 (mm)	49	49
L5 (mm)	312 / 292,5 ⁽¹⁾	357 / 332 ⁽¹⁾ / 277 ⁽²⁾

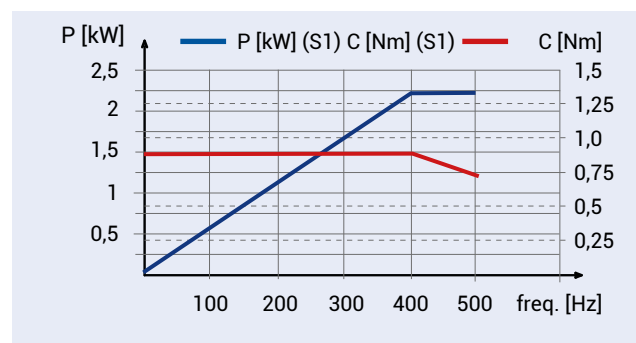
(1) Compressed Air - (2) Liquid Cooling - (3) Short Nose - (4) With aluminum connector box

DIAGRAMS - POWER & TORQUE

ES920 1.1kW 220V



ES920 2.2kW 220V





ES950

Essential / Reliable / Multi-purpose

MATERIALS



LIGHT
ALLOY



WOOD



PLASTIC &
COMPOSITE

APPLICATIONS



MILLING



CUTTING



DRILLING



TAPPING

TARGET MACHINES



DRILLING
MACHINE



3 AXIS
MACHINE
CENTER



ROBOT



ROUTER
CNC

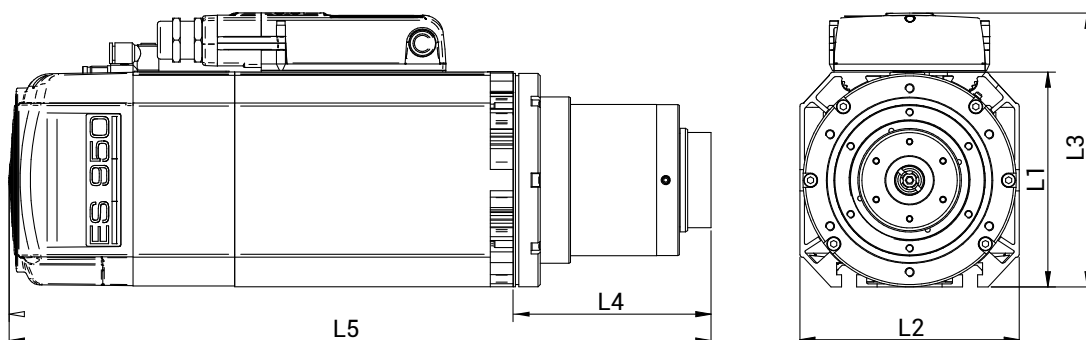
TECHNICAL DATA

	ES950 3.8kW	ES950 5kW	ES950 7.5kW
Body dimension [mm]	142x145	142x145	142x145
Max speed [rpm]	24.000	24.000	24.000
Motor type	Asynchronous	Asynchronous	Asynchronous
Torque S1/S6 (40%) [Nm]	3 / 3.6	4 / 4.8	6 / 7.2
Power S1/S6 (40%) [kW]	3.8 / 4.5	5 / 6	7.5 / 9
Tool interface	ISO 30	ISO 30 / HSK F63	ISO 30 / HSK F63
Cooling	Electric Fan / Compressed Air	Electric Fan / Compressed Air	Liquid
Bearings lubrication	Grease	Grease	Grease
Weight [kg]	25	25	23.5

OPTIONAL

	ES950 3.8kW	ES950 5kW	ES950 7.5kW
Coolant through shaft	No	No	No
Air tool	Yes	Yes	Yes
Vibration sensor	Yes	Yes	Yes
Thermal sensor on front bearings	Yes	Yes	Yes
Shaft kit	Yes	Yes	Yes
Aggregate anti-rotation flange	Yes	Yes	Yes
Wi-fi Connection & myHSD	Yes	Yes	Yes
Encoder	Yes	Yes	Yes

DIMENSIONS



	ES950 3.8kW	ES950 5kW	ES950 7.5kW
L1 (mm)	142	142	142
L2 (mm)	145	145	145
L3 (mm)	181 / 194 (4)	181 / 194 (4)	181 / 194 (4)
L4 (mm)	124 / 67 (3)	124 / 67 (3)	124 / 67 (3)
L5 (mm)	464 / 355 (1) (3)	464 / 355 (1) (3)	390 / 336 (3)

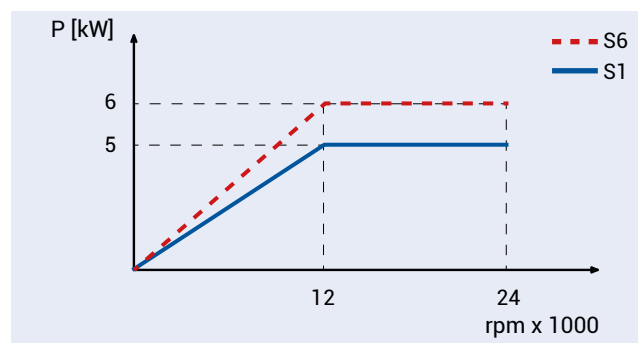
(1) Compressed Air - (2) Liquid Cooling - (3) Short Nose - (4) With aluminum connector box

DIAGRAMS - POWER & TORQUE

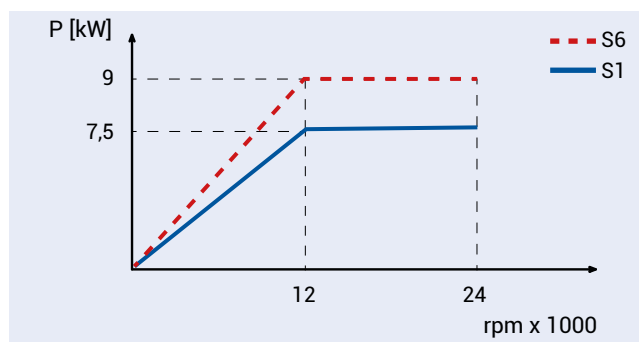
ES950 3.8kW 380V - 220/380V



ES950 5kW 380V



ES950 7.5kW 380V





ES951

Essential / Reliable / Multi-purpose

MATERIALS



LIGHT
ALLOY



WOOD



PLASTIC & COMPOSITE

APPLICATIONS



MILLING



CUTTING



DRILLING



TAPPING

TARGET MACHINES



DRILLING MACHINE



3 AXIS MACHINE CENTER



ROBOT



ROUTER CNC

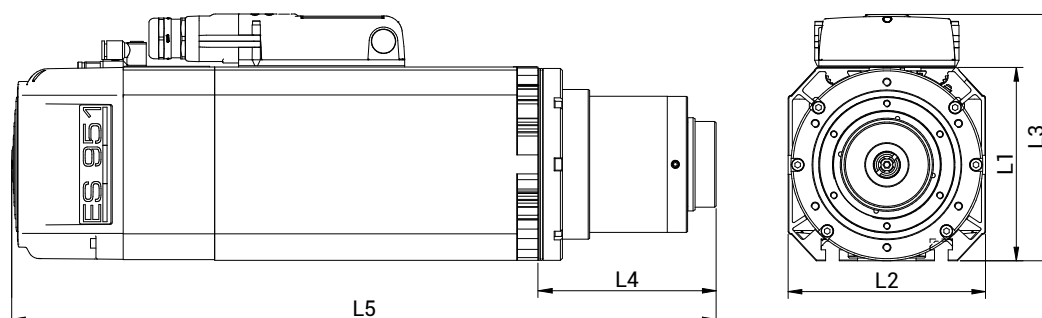
TECHNICAL DATA

	ES951	ES951	ES951	ES951	ES951	ES951	ES951	ES951
	6.5kW	8kW	8.5kW	11kW	12kW	16kW	16kW HT	25kW
Body dimension [mm]	142x145	142x145	142x145	142x145	142x145	142x145	142x145	142x145
Max speed [rpm]	36.000	24.000	24.000	24.000	24.000	24.000	18.000	18.000
Motor type	ASY	ASY	ASY	ASY	ASY	ASY	ASY	ASY
Torque S1/S6 (40%) [Nm]	3.4 / 4.1	6.4 / 7.6	13.5 / 16.2	8.7 / 10.5	9.5 / 11.5	12.7 / 15.3	19 / 22.8	23.9 / 28.6
Power S1/S6 (40%) [kW]	6.5 / 7.8	8 / 9.6	8.5 / 10.2	11 / 13.2	12 / 14	16 / 19.2	16 / 19.2	25 / 30
Tool interface	HSK F50	ISO 30 / HSK F63	ISO 30 / HSK F63	ISO 30 / HSK F63	HSK F63	HSK F63	HSK E63	HSK E63
Cooling	Liquid	Electric fan / Forced Air	Electric fan / Forced Air	Electric fan / Forced Air	Liquid	Liquid	Liquid	Liquid
Bearings lubrication	Grease	Grease	Grease	Grease	Grease	Grease	Grease	Grease
Weight [kg]	25	30	30	30	30	30	30	30

OPTIONAL

	ES951	ES951	ES951	ES951	ES951	ES951	ES951	ES951
	6.5kW	8kW	8.5kW	11kW	12kW	16kW	16kW HT	25kW
Coolant through shaft	No	No	No	No	No	No	No	No
Air tool	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Vibration sensor	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Thermal sensor on front bearings	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Shaft kit	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Aggregate anti-rotation flange	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Wi-fi Connection & myHSD	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Encoder	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes

DIMENSIONS

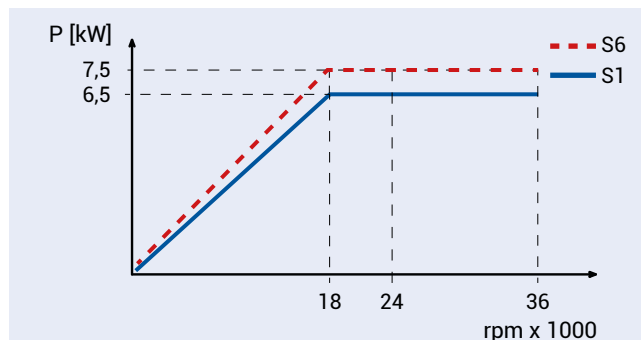


	ES951 6.5kW	ES951 8kW	ES951 8.5kW	ES951 11kW	ES951 12kW	ES951 16kW	ES951 16kW HT	ES951 25kW
L1 (mm)	142	142	142	142	142	142	142	142
L2 (mm)	145	145	145	145	145	145	145	145
L3 (mm)	181	181 / 194 (4)	181 / 194 (4)	181 / 194 (4)	181 / 194 (4)	181 / 194 (4)	181	181
L4 (mm)	83,5	124 / 67 (3)	124 / 67 (3)	124 / 67 (3)	124 / 67 (3)	124 / 67 (3)	124	124
L5 (mm)	357	517 / 454 (3) 465 (1) / 408 (1) (3)	517 / 454 (3) 465 (1) / 408 (1) (3)	517 / 454 (3) 465 (1) / 408 (1) (3) / 447 (2)	443 / 389 (3)	443 / 389 (3)	486	486

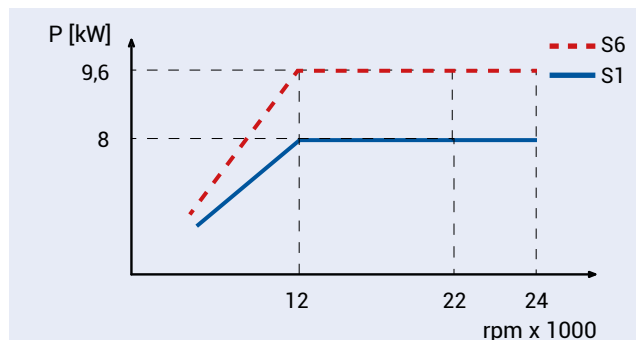
(1) Compressed Air - (2) Liquid Cooling - (3) Short Nose - (4) With aluminum connector box

DIAGRAMS - POWER & TORQUE

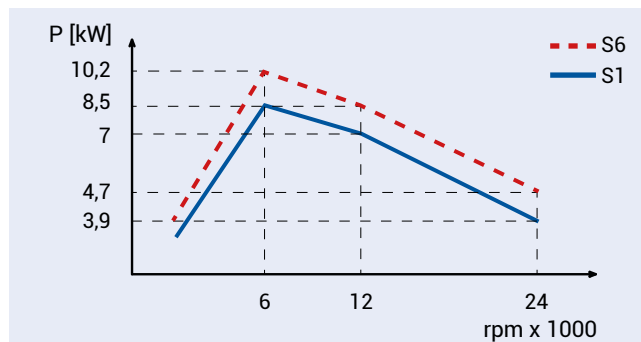
ES951 6.5kW 380V



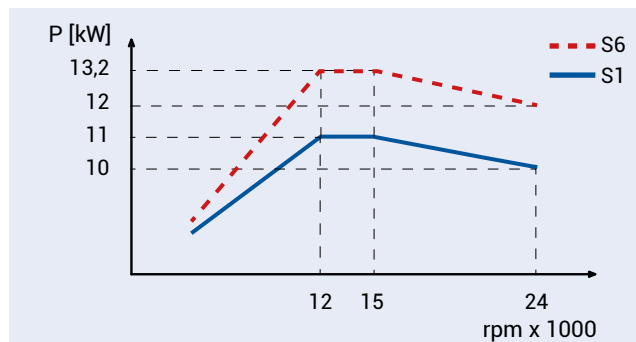
ES951 8kW 380V - 220/380V



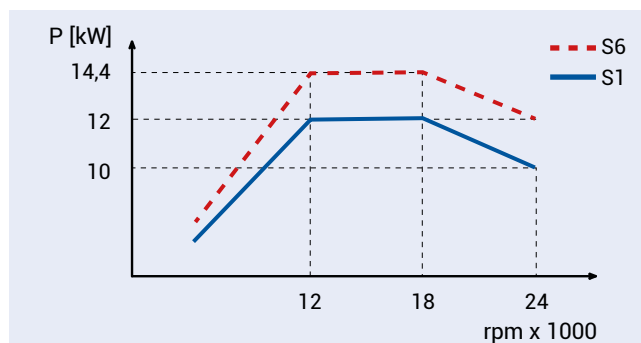
ES951 8.5kW 380V - 220/380V



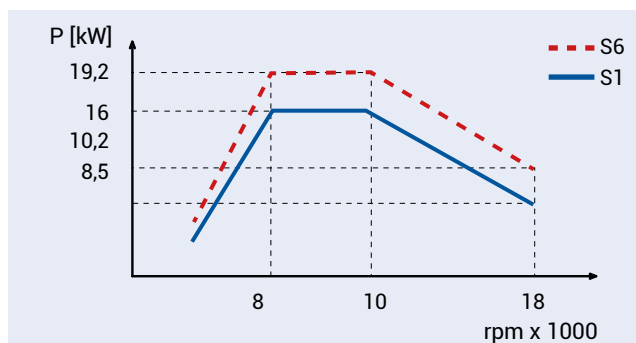
ES951 11kW 380V - 220V



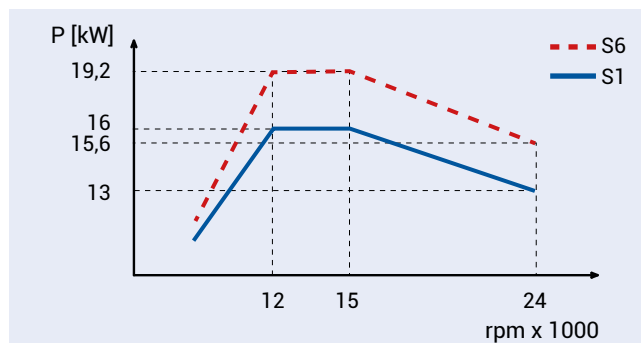
ES951 12kW 380V



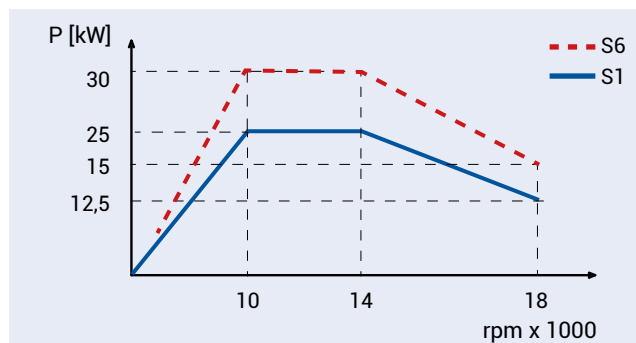
ES951 16kW HT 380V



ES951 16kW 380V



ES951 25kW 380V





ES988

Essential / Reliable / Multi-purpose

MATERIALS



WOOD



PLASTIC &
COMPOSITE

APPLICATIONS



MILLING



CUTTING



DRILLING

TARGET MACHINES



DRILLING
MACHINE



3 AXIS
MACHINE
CENTER



ROBOT



ROUTER
CNC

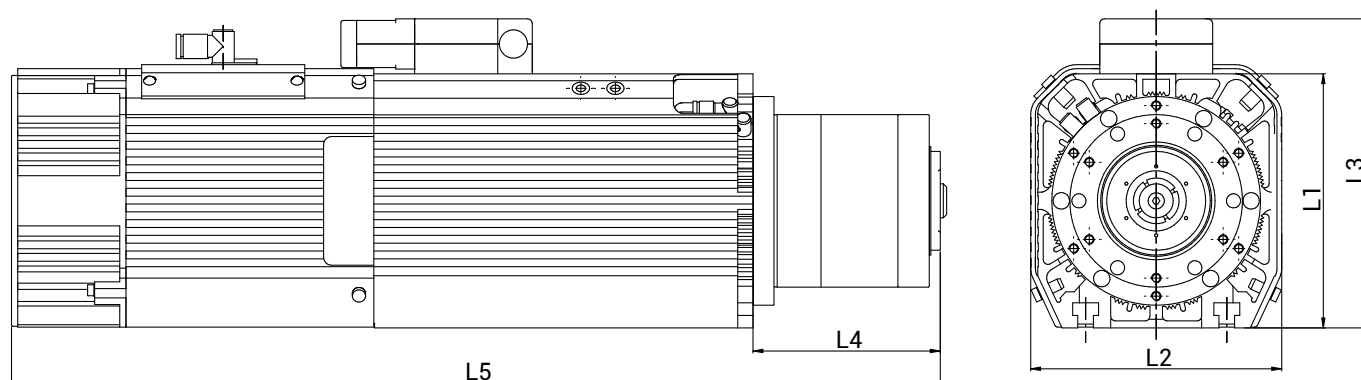
TECHNICAL DATA

	ES988 11kW
Body dimension [mm]	162x160
Max speed [rpm]	24.000
Motor type	Asynchronous
Torque S1/S6 (40%) [Nm]	8.8 / 10.7
Power S1/S6 (40%) [kW]	11 / 13.5
Tool interface	HSK F63
Cooling	Electric fan
Bearings lubrication	Grease
Weight [kg]	40

OPTIONAL

	ES988 11kW
Coolant through shaft	No
Air tool	No
Vibration sensor	No
Thermal sensor on front bearings	No
Shaft kit	Yes
Aggregate anti-rotation flange	No
Wi-fi Connection & myHSD	No
Encoder	No

DIMENSIONS



	ES988
	11kW
L1 (mm)	162
L2 (mm)	160
L3 (mm)	197
L4 (mm)	119 / 59 ⁽³⁾
L5 (mm)	592 / 532 ⁽³⁾

DIAGRAMS - POWER & TORQUE

ES988 11kW 380V

