ECO 62

A4

IMT ECO

PRODUCT DESCRIPTION

Max. power output	1.2 kW
Power output S6 40%	0.8 kW at 40.000 rpm
Power output S1 100%	0.6 kW at 40.000 rpm
Rotation speed	to 60.000 rpm
Diameter	61.91 mm
Spindle interface	automatic collet direct clamping

FEATURES

- Ceramic bearing
- Permanent grease lubricated bearings
- Air seal
- Labyrinth air cooling
- Speed control
- Motor temperature control
- Bearing temperature control

Available equipment:

Frequency converter, Spindlebracket, Automatic tool changer, Collets, Motorcable

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TECHNICAL SPECIFICATIONS

Motor data

Motor type	asynchron
Number of pol´s	2
Speed range (rpm) max.	60.000
Power output S1/S6 40% (kW)	0.6 / 0.8 at 40.000 rpm
Torque S1/S6 40% (Nm)	0.16 / 0.20 to 40.000 rpm
Frequency range (Hz) max.	1000
Max. voltage (Volt)	210
Nominal current S1/S6 40% (Amp.)	2.5 / 3.5
Maximum current (Amp.)	6

Bearing data

Bearings	ceramic - hybrid
Lubrication	grease
Temperature protection	✓
Recommended air seal (bar)	2
Air seal requirements (l/min)	80

Shaft data

Run-out accuracy	
– Axial eccentricity (µm)	-
– Spindle taper (µm)	< 2
Balance quality	G 0.4
Vibration (mm/s)	< 1
Static axial stiffness (N/µm)	13
Static radial stiffness (N/µm)	22

Tooling

Spindle interface	automatic collet direct clamping
Tool clamping / release pressure (bar)	6
Taper cleaning pres. (bar)	-
Max. Tool diameter (mm)	6.35mm (1/4“)

ATC control

Number of sensors	-
Type of sensors	-
Controlled positions	
– tool clamped	-
– tool unclamped	-
– clamped no tool	-

Speed control

Inductive sensor	6 Impulse/RPM 3Vss TTL

Spindle cooling

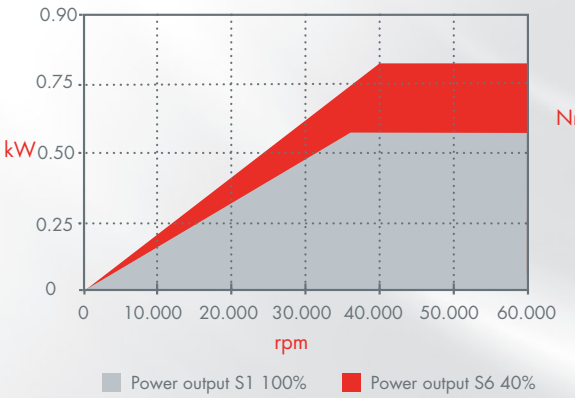
Recommended coolant	Labyrinth air cooling
Cooling requirements (kW)	0.05 - 0.10
Coolant temperature (° C)	-
Max. pressure (bar)	-

Connections

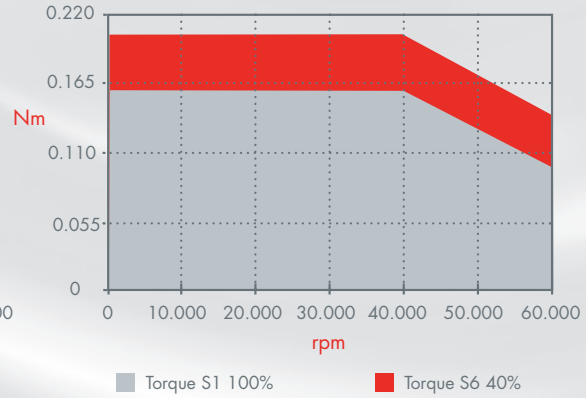
Power connection	7 - pol
ATC control	-
Encoder / Speed sensor	integrated into power cnnection
Coolant	-
Air seal	1 x Ø 6mm (1/8“)
ATC	1 x Ø 6mm (1/8“)
Taper air purge	-
Coolant mist system	-

Spindle diameter (mm)	61.91
Spindle arretation	Spindle bracket
Weight (kg)	2.4

Power diagram



Torque diagram



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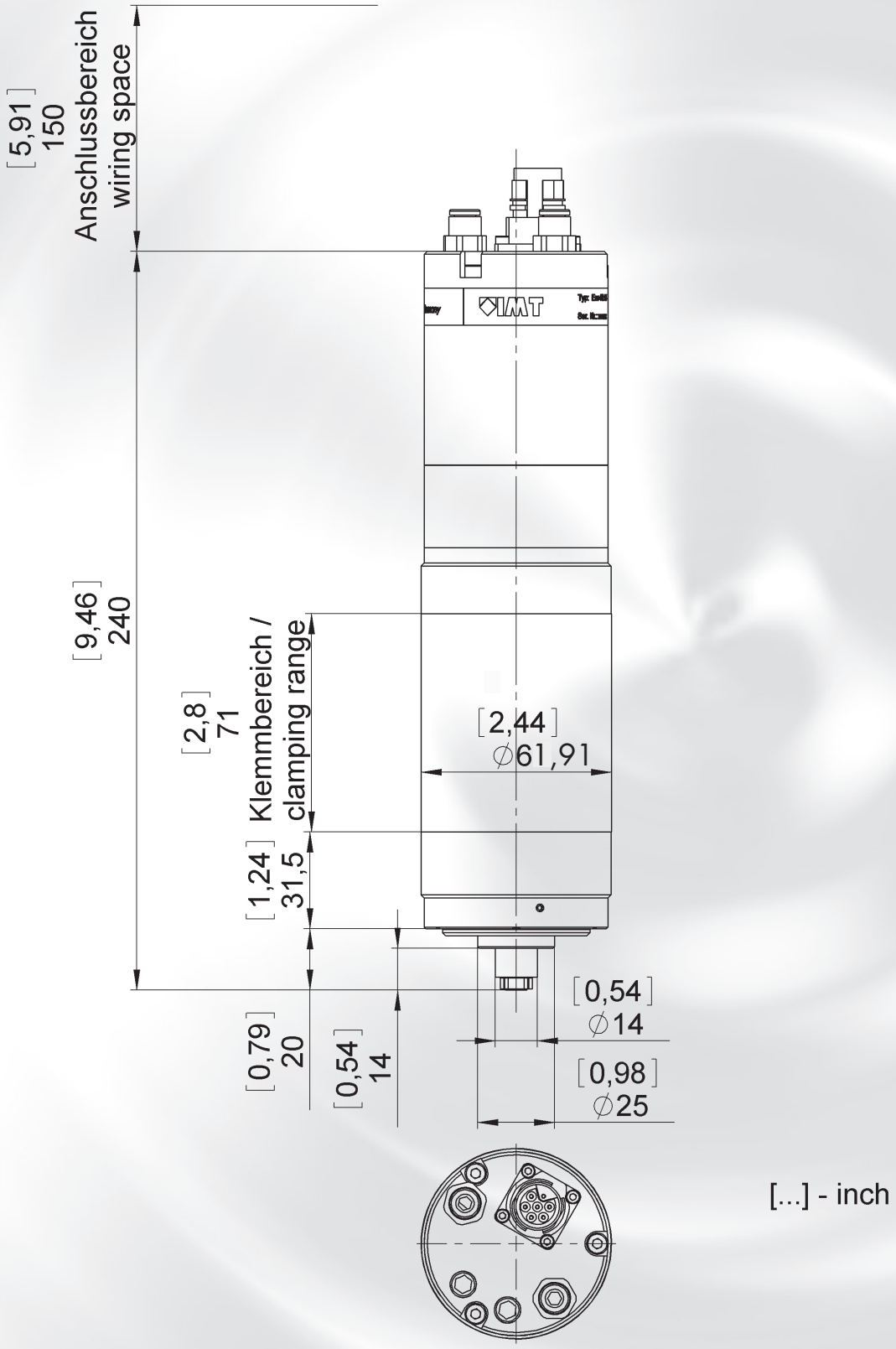
IMT CLASSIC

MAßZEICHNUNG
DIMENSIONAL DRAWING



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Spindelanschlüsse
Spindle connections

1 Leistungsstecker / Power connection

PIN	Funktion
1	Motorphase U
2	Motorphase V
3	Motorphase W
4	PTC - Temperaturüberwachung Temperature protection
5	Drehgeber / Speed sensor
6	Drehgeber Masse/PTC / Speed sensor ground/PTC
7	Erde Schutzleiter / Ground

2 Stecker Werkzeugüberwachung / ATC control plug
Nicht vorhanden / not available

3 Minimalmengensprühanschluss Coolant mist system connection
Nicht vorhanden / not available

4 Kegelreinigungsanschluss Taper air purge connection
Nicht vorhanden / not available

5 Kühlmittelanschluss Vorlauf Coolant connection forward flow
Nicht vorhanden / not available

6 Kühlmittelanschluss Rücklauf Coolant connection return flow
Nicht vorhanden / not available

7 Sperrluftanschluss Air seal connection

8 Werkzeugwechselanschluss Tool change connection