

○ Technical data of the TFZ series

TECHNICAL DATA	TFZ 2-1000	TFZ 2L-1000	TFZ 3-1500	TFZ 3L-1500	TFZ 4-2000
• Gun drilling ELB method					
Bore diameter min./max.	4–30 (3-36)* mm	4–30 (3-36)* mm	5–40 (65)* mm	5–40 (65)* mm	5–40 (65)* mm
max. drilling depth in one pass.....	1,000 / 1,250 mm	1,000 / 1,250 mm	1,500 / 1,800 mm	1,500 / 1,800 mm	2,000 / 2,300 mm (2,000 / 2,300)* mm
Spindle holder according to DIN.....	SK 40 (HSK 63)*	SK 40 (HSK 63)*	SK 50 (HSK 100)*	SK 50 (HSK 100)*	SK 50 (HSK 100)*
Rated spindle power (S1/S6).....	9 / 13 (15 / 23)* kW	9 / 13 (15 / 23)* kW	17 / 25 kW	17 / 25 kW	17 / 25 kW
Spindle speed, infinitely adjustable	6,000 (10,000)* rpm	6,000 (10,000)* rpm	6,000 rpm	6,000 rpm	6,000 rpm
Rated spindle torque (S1/S6).....	85 / 124 Nm	85 / 124 Nm	216 / 320 Nm	216 / 320 Nm	216 / 320 Nm
Rapid traverses X, Y, W and Z-axis	20 m / min	20 m / min	20 m / min	20 m / min	15 m / min
Milling performance (S1=100%)	250 (475)* cm ³ / min	250 (475)* cm ³ / min	475 cm ³ / min	475 cm ³ / min	475 cm ³ / min
Thread cutting (larger threads by circular milling).....	M 24	M 24	M 30	M 30	M 30
(Performance specifications for material 1.2312)					
• Travels					
X-axis (table crosswise)	1,200 mm	1,600 mm	2,000 mm	2,500 mm	3,200 mm
Y-axis (drilling/milling unit vertical)	1,050 (1,250)* mm	1,050 (1,250)* mm	1,250 (1,650)* mm	1,250 (1,650)* mm	1,250 (1,650)* mm
Z-axis (drilling/milling unit horizontal).....	1,100 mm	1,100 mm	1,250 mm	1,550 mm	2,000 mm
W-axis (drilling/milling spindle).....	1,600 mm	1,600 mm	2,250 mm	2,250 / 2,775 mm	2,775 mm
• CNC rotary table					
B-axis	360 degrees	360 degrees	360 degrees	360 degrees	360 degrees
Table area (other dimensions on enquiry).....	1,100 x 1,100 mm	1,500 x 1,100 mm	1,800 x 1,800 mm	2,400 x 1,800 mm (2,200 x 2,000)* mm	2,500 x 2,000 mm (3,000 x 2,000 mm)*
Table load (central).....	7,000 (10,000)* kg	7,000 (10,000)* kg	15,000 (20,000)* kg	20,000 kg	20,000 (40,000)* kg
• Coolant supply					
Coolant pressure	max. 100 (90)* bar	max. 100 (90)* bar	max. 90 bar	max. 90 bar	max. 90 bar
Coolant flow rate.....	max. 40 (90)* l / min	max. 40 (90)* l / min	max. 90 l / min	max. 90 l / min	max. 90 l / min
• Process monitoring					
Tool breakage monitoring, coolant pressure and coolant flow checking.....	✓	✓	✓	✓	✓
• 3D path control					
Heidenhain iTNC 530, optionally Siemens 840 D.....	✓	✓	✓	✓	✓
Coordinate transformation	✓	✓	✓	✓	✓
Deep-drilling technology programs	✓	✓	✓	✓	✓
Milling cycles.....	✓	✓	✓	✓	✓
• Machine cladding, chip conveyor options					
• Options					
Two-speed manual gearbox at i = 4 (S1/S6).....			648 / 952 Nm	648 / 952 Nm	648 / 952 Nm
Drilling/milling unit swiveling A-axis	-30/+15 degrees	-30/+15 degrees	-30/+30 degrees	-30/+30 degrees	-30/+30 degrees
Follow rest.....	2	2	4	4	4
Tool changer for conventional tools	24 (32)* places	24 (32)* places	24 (32)* places	24 (32 / 64) places	24 (32 / 64)* places
Required footprint (in mm) approx.	5,700x7,400x4,050	6,300x8,100x4,300	7,700x8,900x5,500	9,000x9,900x5,800	10,600x10,900x5,800

*optional;

subject to technical changes; status as of August 2015

For larger travels, table dimensions, drilling depths, bore diameters please inquire.