

Series		TFZ 2	TFZ 2 L	TFZ 3	TFZ 3 L	TFZ 4
Spindle holder according to DIN		SK 40 / HSK 63 ¹⁾		SK 50 / HSK 100 ¹⁾		
Drilling method ELB ³⁾						
Drilling diameter min. – max.	[mm]	4 – 30 / 3 – 36 ¹⁾	4 – 30 / 3 – 36 ¹⁾	5 – 40 / 65 ¹⁾	5 – 40 / 65 ¹⁾	5 – 40 / 65 ¹⁾
Max. drilling depth in one pass	[mm]	1,000 / 1,250	1,000 / 1,250	1,500 / 1,800	1,500 / 1,800 (2,000 / 2,300) ¹⁾	2,000 / 2,300
Spindle						
Rated spindle power (S1=100% / S6=40% duty cycle)	[kW]	9 / 13 (15 / 23) ¹⁾	9 / 13 (15 / 23) ¹⁾	17 / 25 (30 / 42) ¹⁾	17 / 25 (30 / 42) ¹⁾	17 / 25 (30 / 42) ¹⁾
Spindle speed, stepless	[rpm]	6,000 / 8,000 ¹⁾ / 10,000 ¹⁾	6,000 / 8,000 ¹⁾ / 10,000 ¹⁾	6,000	6,000	6,000
Rated spindle torque (S1=100% / S6=40% duty cycle)	[Nm]	85 / 124 (128 / 197) ¹⁾	85 / 124 (128 / 197) ¹⁾	216 / 320	216 / 320	216 / 320
Milling performance (S1=100%)	[cm³/min]	250 / 475 ¹⁾	250 / 475 ¹⁾	475	475	475
Threading (larger threads by circular milling)		M24	M24	M30	M30	M30
Travels						
X-Axis (table crosswise)	[mm]	1,200	1,600	2,000	2,500	3,200
Y-Axis (drilling/milling unit vertical)	[mm]	1,050 / 1,250 ¹⁾	1,050 / 1,250 ¹⁾	1,250 / 1,650 ¹⁾	1,250 / 1,650 ¹⁾	1,250 / 1,650 ¹⁾
Z-Axis (drilling/milling unit horizontal)	[mm]	1,100	1,100	1,250	1,550	2,000
W-Axis (drilling/milling spindle)	[mm]	1,600	1,600	2,250	2,250 / 2,775 ¹⁾	2,775
A-Axis (drilling/milling unit, swiveling around)	[°]	± 30	± 30	± 30	± 30	± 30
Rapid traverses X, Y, W and Z-Axis	[m/min]	20	20	20	20	20
CNC rotary table (B-Axis, 360-degree rotation)						
Table size (other dimensions on request)	[mm]	1,100 x 1,100	1,500 x 1,100	1,800 x 1,800	2,400 x 1,800 / 2,200 x 2,000 ¹⁾	2,500 x 2,000 / 3,000 x 2,000 ¹⁾
Table load (central)	[t]	7 / 10 ¹⁾	7 / 10 ¹⁾	15 / 20 ¹⁾	20	20 / 40 ¹⁾
Coolant supply						
Coolant pressure	[bar]	max. 100 / 90 ¹⁾	max. 100 / 90 ¹⁾	max. 90	max. 90	max. 90
Coolant flow rate	[l/min]	max. 40 / 70 ²⁾ / 90 ¹⁾	max. 40 / 70 ²⁾ / 90 ¹⁾	max. 75 ²⁾ / 90	max. 75 ²⁾ / 90	max. 75 ²⁾ / 90
Options (further options on request)						
Two-speed gearbox at i = 4 (S1=100%, S6=40% duty cycle)	[Nm]	–	–	648 / 952 (764 / 1,072) ¹⁾	648 / 952 (764 / 1,072) ¹⁾	648 / 952 (764 / 1,072) ¹⁾
Tool places for conventional tools		24 (32 / 40) ¹⁾	24 (32 / 40) ¹⁾	24 (32 / 36) ¹⁾	24 (32 / 36 / 64 / 72) ¹⁾	24 (32 / 36 / 64 / 72) ¹⁾
Water-cooled main spindle		–	–	yes	yes	yes

1) optional 2) in case of HSK 3) Performance specifications for material 1.2312