

Machine Layout



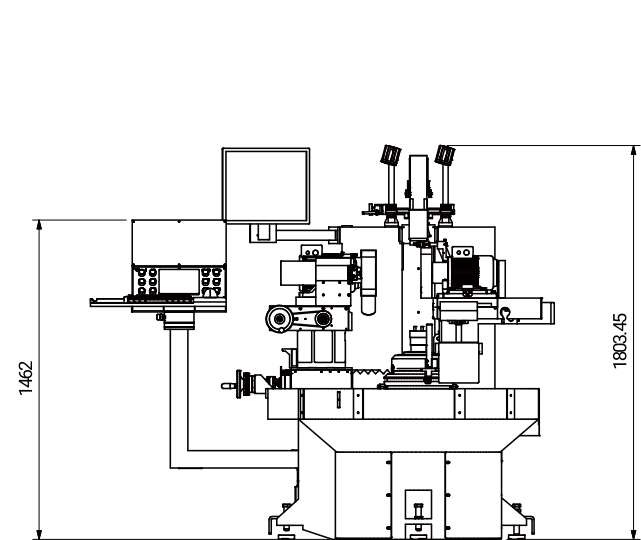
TD-3

Uncovered sheet metal

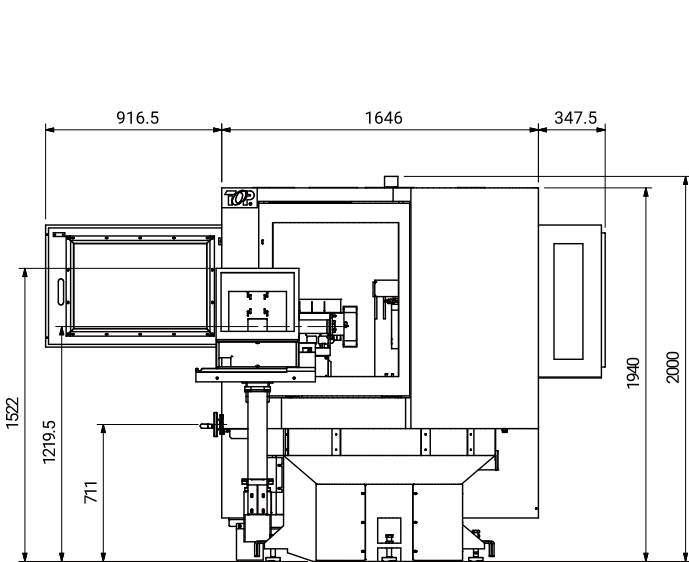
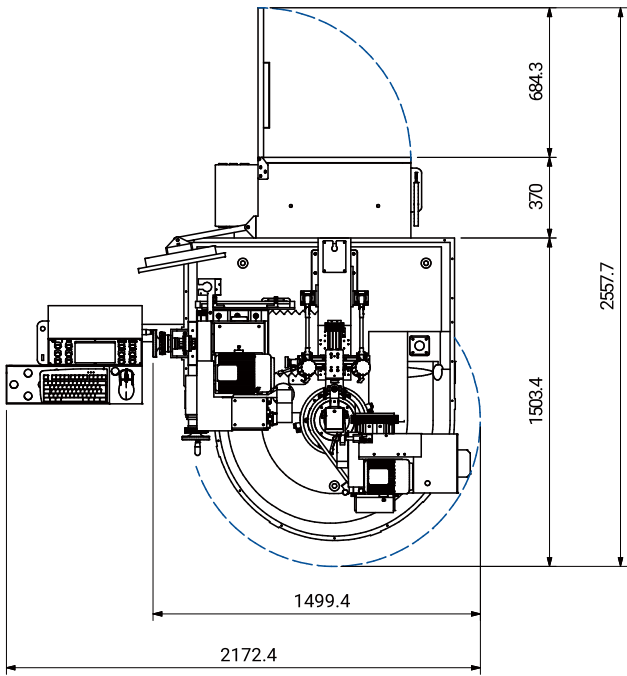


TD-3 / TD-5

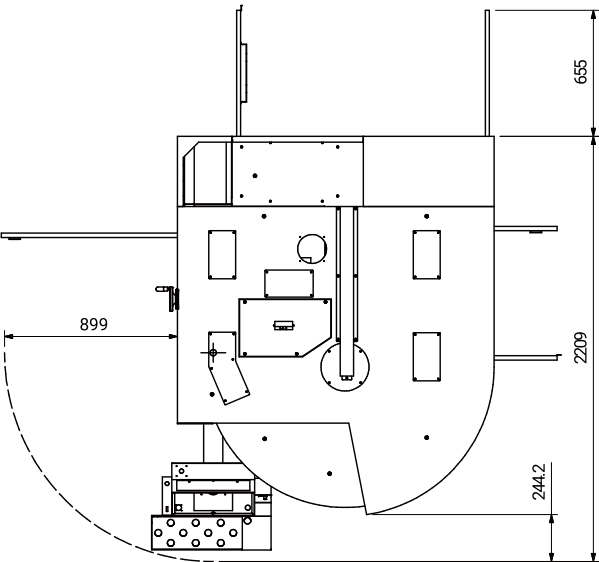
Full cover sheet metal



TD-3 Uncovered sheet metal



TD-3 / TD-5 Full cover sheet metal



Specification / Model		TD-3	TD-5
Diamond / CBN Grinding Wheel Spindle	Spindle Nose Taper	BT-40	BT-40
	Max. Wheel Diameter	Ø250 mm	Ø250 mm
	Min. Wheel Diameter	Ø50 mm	Ø50 mm
	Wheel Rotation Speed	100 to 2500 rpm	100 to 2500 rpm
	Motor Power	2 HP(1.5 kW)	2 HP(1.5 kW)
	W-Axis Movement and Drive	280 mm / Manual	280 mm / Servo
	U -Axis Movement and Drive	140 mm / Manual	140 mm / Servo
Dressing Wheel Module	Wheel Dimension	Ø205 x 19t mm	Ø205 x 19t mm
	Wheel Rotation Speed	200 to 3500 rpm	200 to 3500 rpm
	Motor Power	1HP(0.75 kW)	1HP(0.75 kW)
	X-Axis Feeding Stroke and Drive	100 mm / Servo	100 mm / Servo
	Z-Axis Swing Distance and Drive	20 to 80 mm / Servo	20 to 80 mm / Servo
	B-Axis Rotation Angle and Drive	±95° / Servo+Reducer	±95° / Servo+Reducer
Controller	Controller	PLC	MITSUBISHI M80W
Machine Dimensions	Dimensions (L x W x H)	1751 x 2303 x 2042 mm	1994 x 2209 x 2000 mm
	Weight	1750 kg	2260 kg

※ All specifications are subject to change without notice.

Standard & Optional Accessories	TD-3	TD-5
Levelling bolts & blocks	●	●
WA Grinding Wheel	●	●
Dressing Wheel Flange	●	●
Additional Diamond Truing Tool with Diamond Nib	●	●
Wheel Dresser	●	●
MPG Hand Wheel	●	●
Work Lamp	●	●
Tool Box & Adjusting Tool	●	●
Linear Scale (U, W Axis)	●	●
B-Axis Reducer	●	●
CCD Camera System + 24" Monitor (Magnification for Full Screen : 20x - 138x)	●	●
Customized Adaptor and Spindle (HSK-50... etc.)	opt.	opt.
Uncovered Sheet Metal (Dust Collector Included)	●	×
Full Cover Sheet Metal (Coolant Tank, Oil Mist Collector with Filtering Drum Included)	opt.	●
Spare Belt for Spindle Drive	opt.	opt.
Transformer	opt.	opt.

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Diamond Wheel Dressing Machine



TD-3 / TD-5

The standard taper of SDC/CBN wheel spindle is BT-40. For different customer-specified spindles, the optional adaptor can be selected according to its corresponding tapers. Or make the spindle types as HSK-40A/C, HSK-50A/C/E, without converting to different tapers to improve the dressing accuracy.

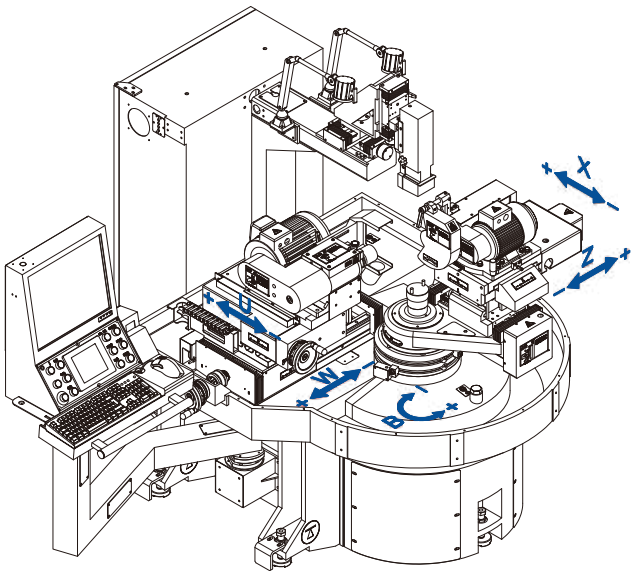


Diamond Wheel Dressing Machine

TD-3 / TD-5

SDC/CBN Wheel and Dressing Wheel

The standard taper of SDC/CBN wheel spindle is BT-40
For different customer-specified spindles, the optional adapter can be selected according to its corresponding tapers.



Other options for dedicated spindle included HSK-40A/C, HSK-50A/C/E, without converting to different tapers to improve the dressing accuracy.



Oil mist collector with filtering drum
*Wet dressing
Full cover sheet metal



Coolant tank
*Wet dressing



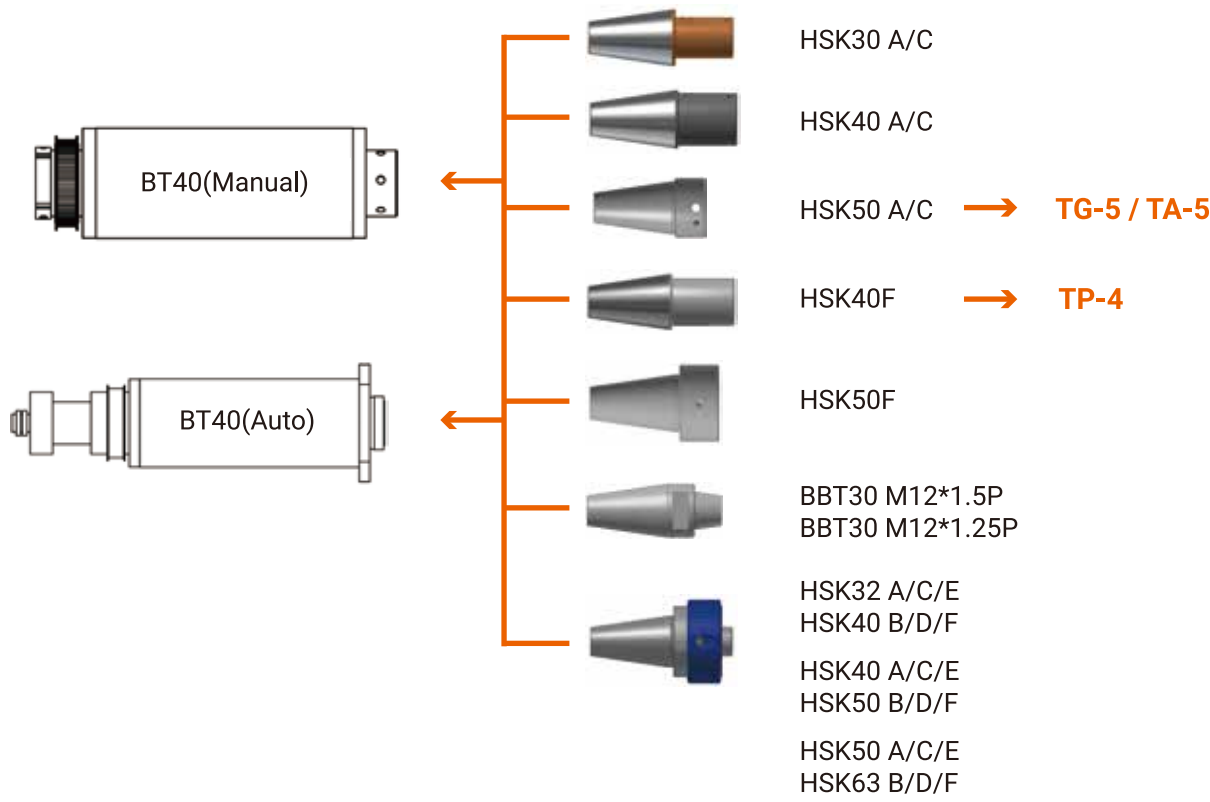
Dust collector
*Dry dressing
Uncovered sheet metal



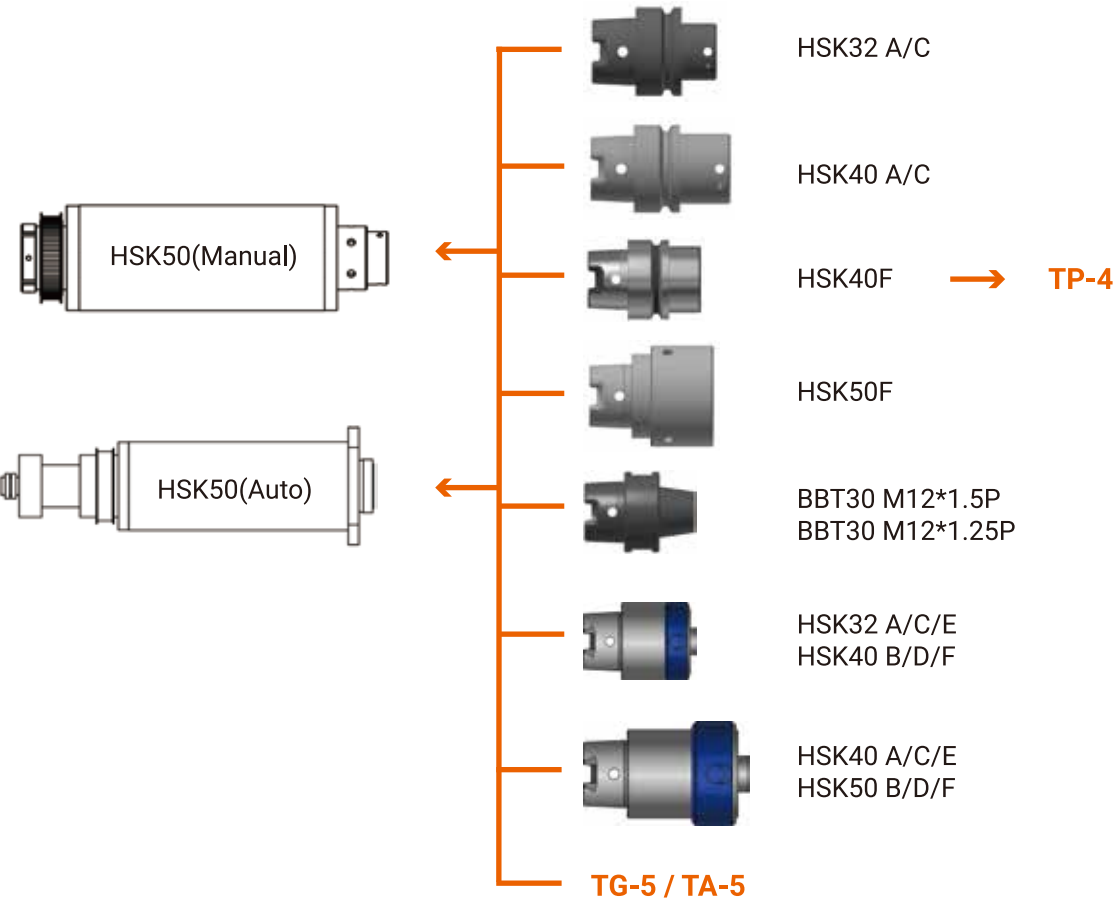
CCD camera system

Adapter

Grinding Wheel spindle BT-40 (Standard)



Grinding Wheel spindle HSK-50 (Opt.)



Controller and Software

TD-3 PLC



Servo axis

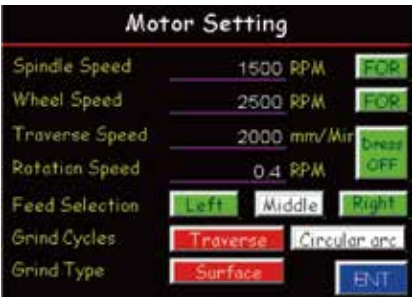
X、B、Z axis

CCD software

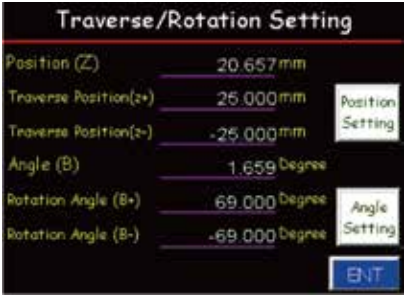
TM3000

CCD Magnification

10x - 85x



▲ Motor setting



▲ Traverse/Rotation setting



▲ Plane surface setting

TD-5 Mitsubishi M80W



Servo axis

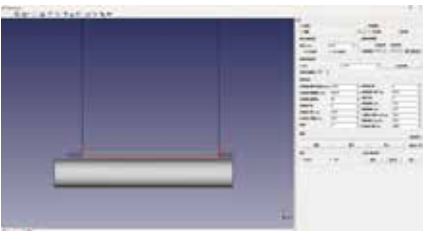
X、B、Z、U、W axis

CCD software

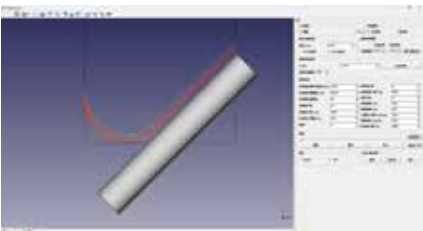
TM3000

CCD Magnification

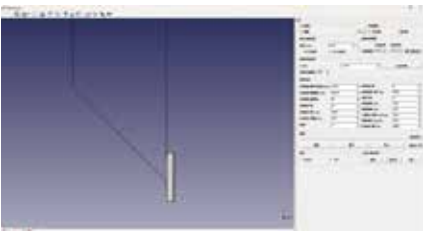
10x - 85x



▲ Flat dressing



▲ Radius dressing



▲ End face dressing