



MILLING

Bridgeport

V480 APC /

V480 DT APC

Performance Vertical
Machining Center and
Automatic Pallet Changer

Precision Is Our Nature



TURNING



MILLING



GRINDING



WORKHOLDING



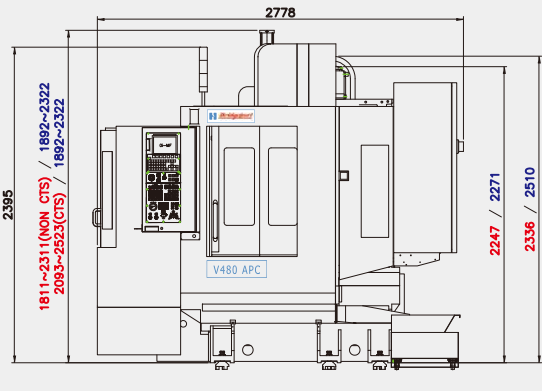
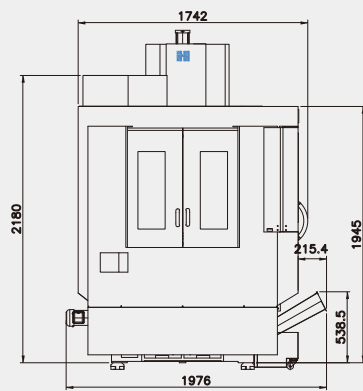
ROTARY

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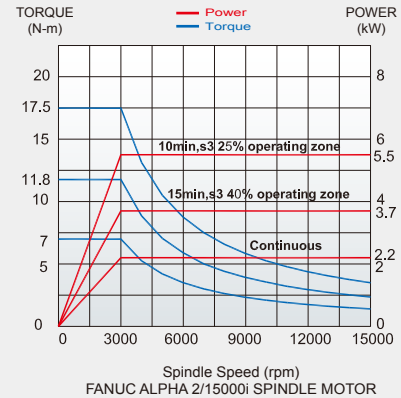
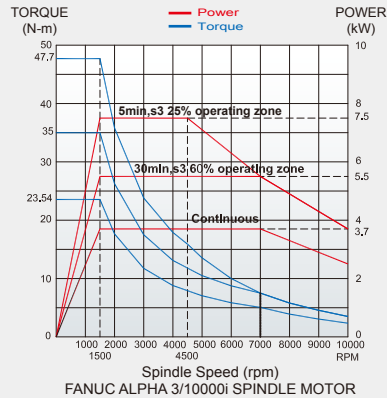
Bridgeport[®]

■ Dimensions



unit : mm

■ Spindle Out Diagram



MACHINE CONFIGURATIONS

Travel	V480 APC	V480 DT APC	unit
X x Y x Z	480 x 400 x 430		mm
Spindle Center to Column	429	420	mm
Spindle			
Taper Size	No.40	No.30	
Motor Rating (Max.)	10hp / 7.5kW	7.5hp / 5.5kW	kW
Speed (Max.)	10000 Belt	15000 Direct Drive	rpm
Torque (Max.)	47.7	17.5	N-m
Tapping Speed (Max.)	3000	6000	rpm
Ball Screw			
Diameter	32		mm
Feed Rates (All Axes)			
Rapid and Traverse Rates (Max.)	36	48	m/min
Cutting Feed Rates (Max.)	12	15	m/min
Tool Changer			
Tool Capacity	20 (Swing Arm)		
Tool Selection	Bi-Directional		
Tool Holder Type	BT or CAT or SK or ANSI 40	BT or CAT or SK or ANSI 30	
Tool Diameter Max.	75 (Full), 150 (Adj. Pockets Empty)		mm
Tool Length Max.	185		mm
Tool Weight Max.	7	4	kg
Tool Change Time (Avg.)	2.2 (C-C 4.5)	0.8 (C-C 2.2)	sec
Accuracy (ISO 230-2)			
Positioning (All Axes)	0.01		mm
Repeatability	0.005		mm
Motors			
Axis Motor Rating	1.8	1.6 (X,Y) 3 (Z)	kW
Coolant & Flush Motor	0.52		kW
Lubrication			
Spindle Bearing	Grease		
Linear Guideways	Grease		
Ball Screw	Grease		

Coolant Capability	V480 APC	V480 DT APC	unit
Coolant Tank Capacity	120		liter
Chip Flush Rate	40		liter/min.
Miscellaneous			
Compressed Air Req.(Min.)	70 psi, 5 kg/cm ²		
Power Supply Requirement	64A FLA / 220V / 3Phase		
Automatic Pallet Changer (2 positions, Front Type)			unit
Model	V480 APC	V480 DT APC	
Spindle Nose to Table Surface	225-655		mm
Table Length	600		mm
Table Width	400		mm
Table Max. Load (Each Table)	200		kg
Table Tap Holes (Mx x Nos.)	M12 x 35		
APC Change Time	8~10		sec
APC Change Type (2 Tables)	180° clockwise or counter-clockwise		
Clamping Force	2200 kg @35 kg/cm ²		
Max. Part Height	400		mm
OPTIONS			
Coolant Through Spindle 280 psi (20 bar)			
Chip Flush System			
4th Axis Rotary Tables			
Chip Wash Down Hose			
Coolant Tank Capacity 170 Liter			
12000 rpm Direct Drive Spindle (Taper 40)-(Fanuc & Siemens)			
20000 rpm Direct Drive Spindle (Taper 30)-(Fanuc & Siemens)			
24000 rpm Direct Drive Spindle (Taper 30)-(Siemens)			
Chip Conveyor Auger Type			
Siemens 828D Controller (31A FLA / 400V / 3Phase)			
Linear Scales			
Spindle Oil Chiller			
Tool Probe / Pre-Wiring			
Part Probe / Pre-Wiring			
Ethernet Interface + D/S 256MB Memory Card + AICC (pre-read 40 Blocks)			

※To keep improvement and developing new functions, Hardinge Taiwan reserves the rights to change specifications without further notice.

※Due to varying cutting conditions, actual results may be greater or less than those listed.