

BRIDGEPORT V480 APC

PERFORMANCE VERTICAL
MACHINING CENTER AND
AUTOMATIC PALLET CHANGER

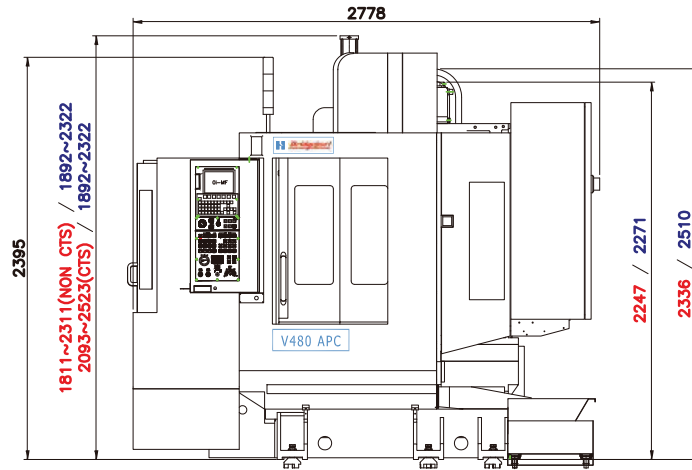
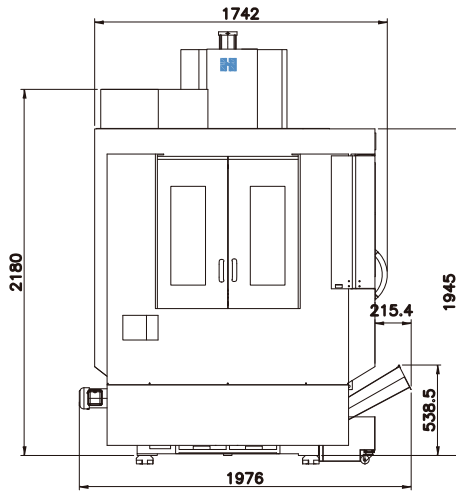


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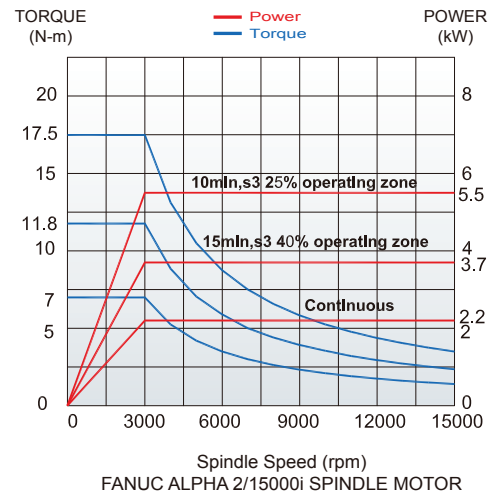
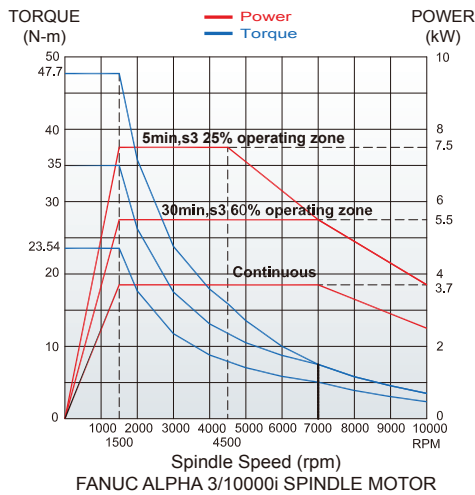
BRIDGEPORT V480 APC

DIMENSIONS



unit : mm

SPINDLE OUT DIAGRAM



PRECISION IS OUR NATURE

TRAVEL	V480 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	rpm
Torque (Max.)	47.7	17.5	N-m
Tapping Speed (Max.)	3000	6000	rpm

BALL SCREW

Diameter	32		mm
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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 40	
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.)	2.5 (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	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)

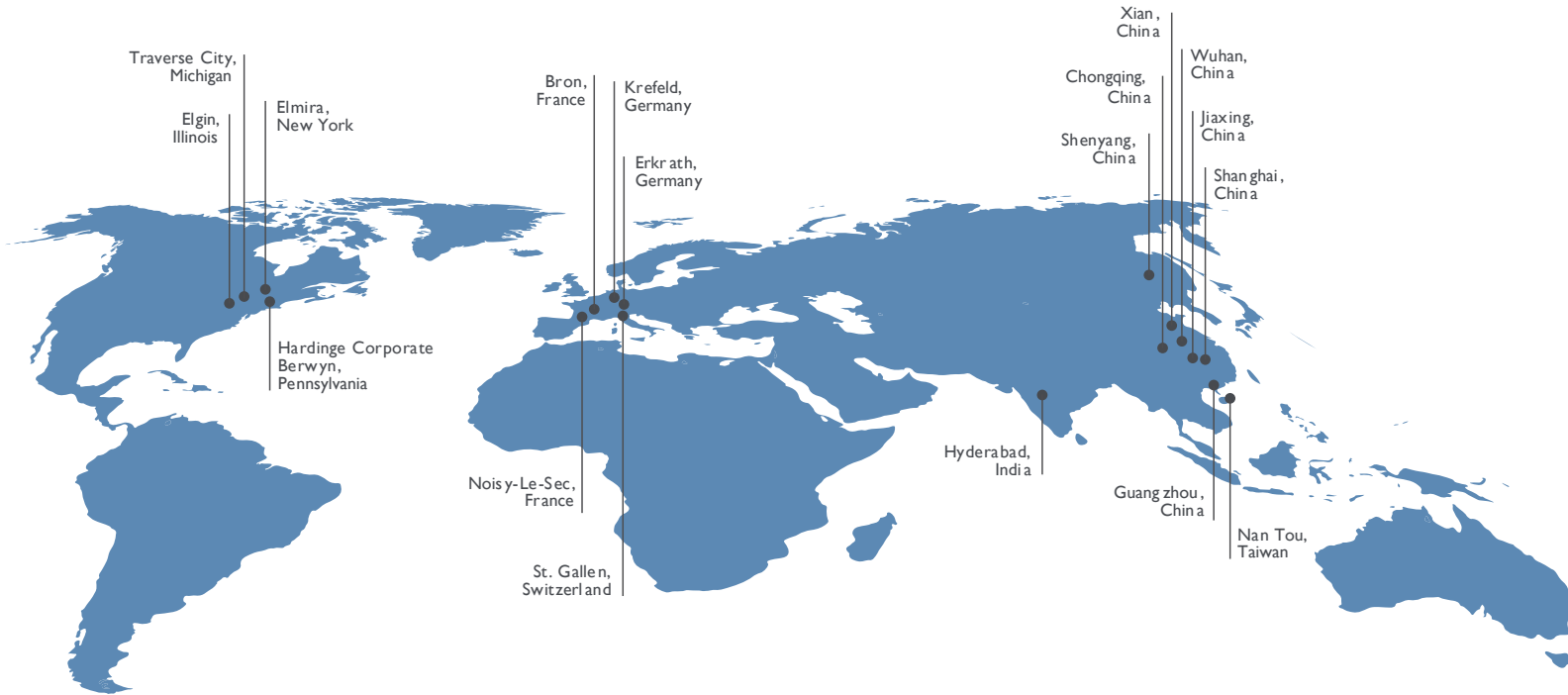
Model	V480 APC	
Spindle Nose to Table Surface	225-655	mm
Table Length	600	mm
Table Width	400	mm
Table Max. Load (Each Table)	200	kg
Table Tap Holes (Mx x Nos.)	M12 x 35	
APC Change Time	8 ~ 10	sec
APC Change Type (2 Tables)	180° Clockwise or Counter Clock-Clockwise	
Clamping Force	2200 kg @ 35 kg/cm 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 improvements 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

HARDINGE WORLDWIDE



Hardinge is a leading international provider of advanced metal-cutting solutions. We provide a full spectrum of highly reliable CNC turning, milling, and grinding machines as well as technologically advanced workholding accessories.

The diverse products we offer enable us to support a variety of market applications in industries including aerospace, agricultural, automotive, construction, consumer products, defense, energy, medical, technology, transportation and more.

We've developed a strong global presence with manufacturing operations in North America, Europe, and Asia. Hardinge applies its engineering and applications expertise to provide your company with the right machine tool solution and support every time.

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