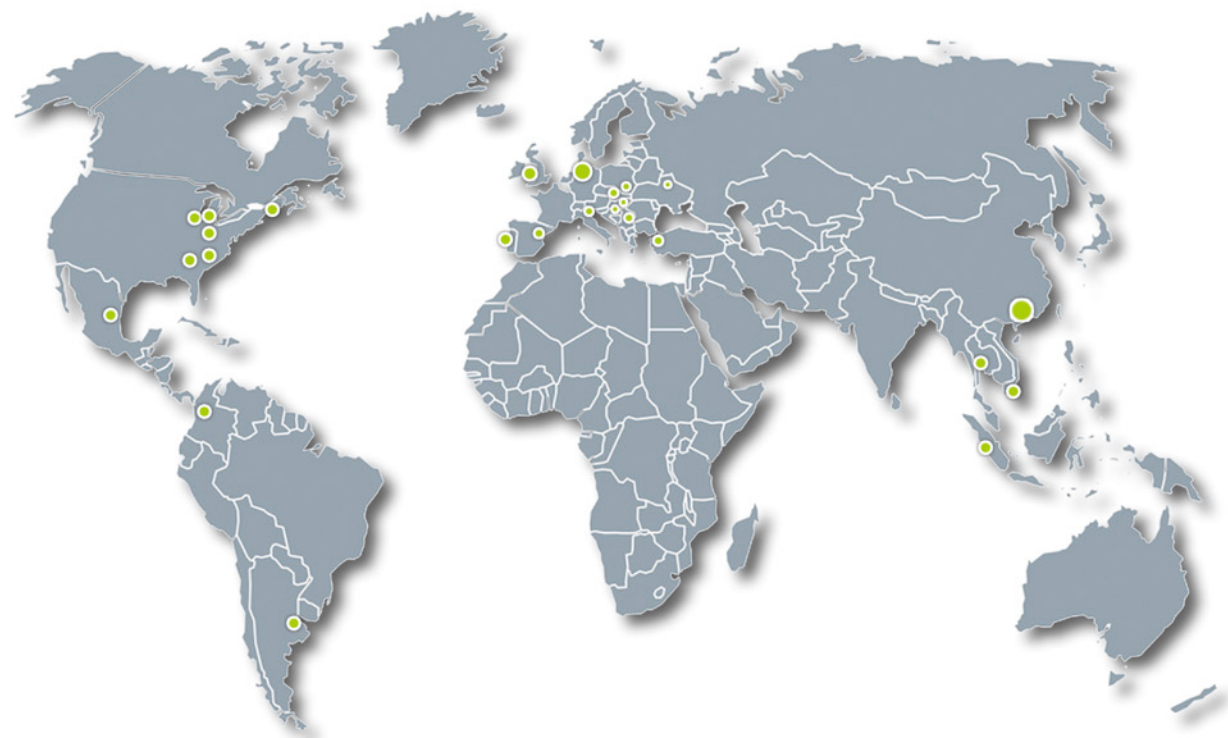


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PRIMINER

PRECISE. DYNAMIC. RELIABLE



VERTICAL MACHINING CENTER



PRIMINER COMPANY PROFILE

PRIMINER MACHINE TOOLS was founded by a team from Germany and China which had been working in the field of CNC machine tools manufacturing for more than 20 years.

Our European headquarter is in Germany and our main manufacturing plant is in the South of China which is very close to Hongkong.

With the advantage of the teams from Germany and China, our machines have been sold to more than 30 countries that offer local service support.

PRECISE. DYNAMIC. RELIABLE

---Quality machine made by PRIMINER

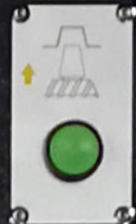
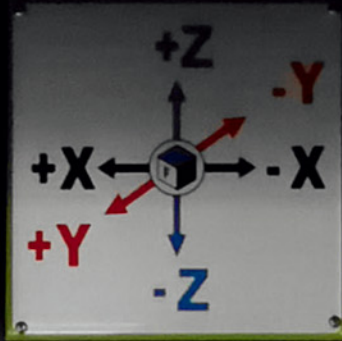


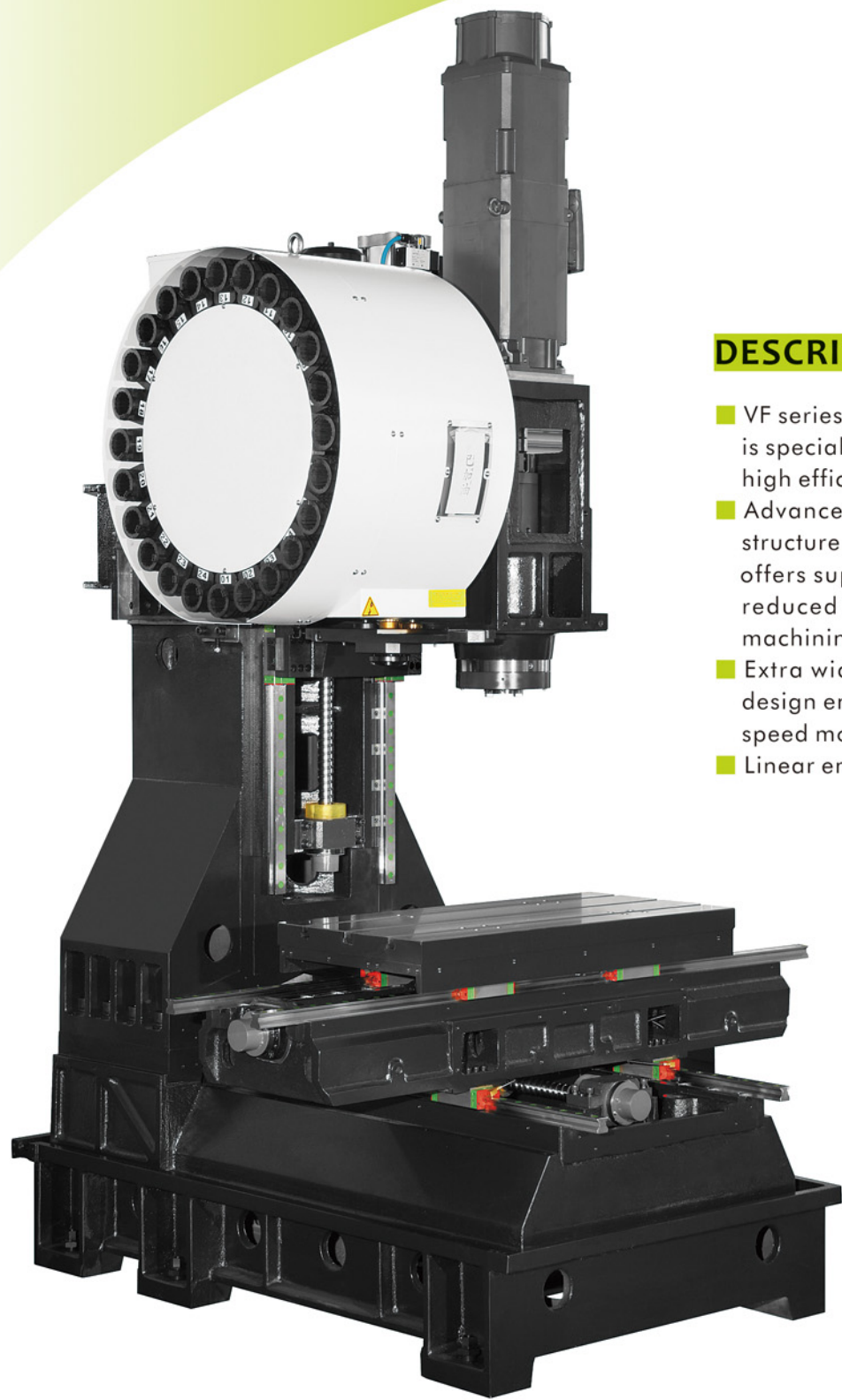
PRIMINER



PRIMINER

PRIMINER GLOBAL TEAM





DESCRIPTION

- VF series ultra high performance center is specially designed for high speed and high efficiency machining applications.
- Advanced design with reinforced body structure through FEM analysis. VF series offers superb cutting performance and reduced vibration to meet the highest machining demands.
- Extra wide machine column and base design ensures high rigidity during high speed movement.
- Linear encoder (Option)

STANDARD EQUIPMENT

- Fully enclosed splash guard
- Direct drive Spindle 12000rpm (VF760)
- Motor spindle 20000rpm, HSK A63 (VF760M)
- 24 pocket arm tool changer
- Spindle cooling system
- Air-conditioned electrical cabinet
- Rigid tapping
- Ethernet, CF card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Handwheel (MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Air blast during cutting
- User manuals

OPTIONS

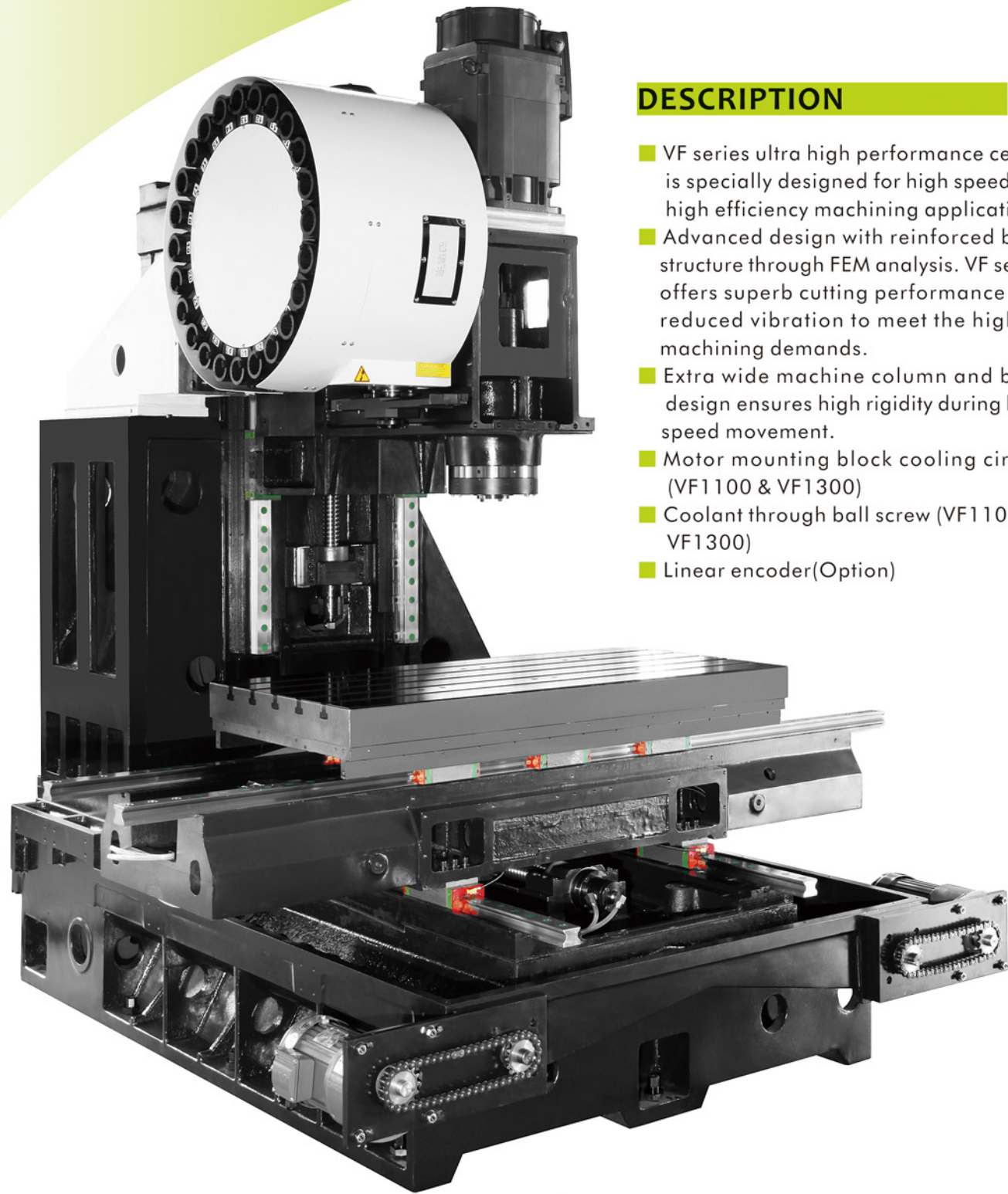
- Chain type chip conveyor
- Coolant through spindle
- Motor spindle 32000rpm, HSK E40 (VF760M)
- Linear encoder
- 4th axis
- 4/5th axis
- Workpiece Probe
- Tool Probe

VF760 • VF760M



SPECIFICATION

TABLE	VF760	VF760M
Table size	900×420 mm	35.43"×16.53"
T slot (width×number×distance)	14×3×125 mm	0.55"×3×4.92"
Max. load	350 kg	771.61 lb
TRAVEL		
X/Y/Z Travel	760/450/520 mm	29.92"/17.71"/20.47"
Spindle nose to table	100-620 mm	3.93"-24.40"
Spindle center to column	517 mm	20.35"
SPINDLE		
Spindle taper	CAT40	HSK A63
Spindle servo motor	11/15 kW	14.75/20.12 hp
Spindle speed	12000 RPM	20000 RPM
TOOL CHANGER		
Tool number	24	
Tool length	300 mm 11.81"	
Max. tool diam. (without adjacent tool)	78(125) mm 3.07"(4.92")	
Max. tool weight	8 kg 17.63 lb	
FEED		
Rapid feed X/Y/Z	48 m/min 1889.76 ipm	24 m/min 944.88 ipm
Cutting speed	1-12000 mm/min 0.04-472.44 ipm	
ACCURACY		
VDI 3441 (without Linear encoder) (Full travel)	Positioning accuracy 0.010, Positioning repeatability 0.006	
VDI 3441 (with Linear encoder) (Full travel)	Positioning accuracy 0.006, Positioning repeatability 0.004	
DIMENSION & WEIGHT		
Dimension	2400×2120×2900 mm 94.48"×83.46"×114.17"	
Weight	4500 kg 9920.80 lb	



DESCRIPTION

- VF series ultra high performance center is specially designed for high speed and high efficiency machining applications.
- Advanced design with reinforced body structure through FEM analysis. VF series offers superb cutting performance and reduced vibration to meet the highest machining demands.
- Extra wide machine column and base design ensures high rigidity during high speed movement.
- Motor mounting block cooling circuit (VF1100 & VF1300)
- Coolant through ball screw (VF1100 & VF1300)
- Linear encoder (Option)

STANDARD EQUIPMENT

- Fully enclosed splash guard
- Direct drive spindle 12000rpm
- 24 pocket arm tool changer
- Chain type Chip conveyor (VF900)
- Chip conveyor (Two screw type and one chain type) VF1100 & VF1300
- Spindle cooling system
- Air-conditioned electrical cabinet
- Motor mounting block cooling circuit (VF1100 & VF1300)
- Rigid tapping
- Ethernet, CF Card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Air blast during cutting
- User manuals

OPTIONS

- Direct drive spindle 10000rpm, BBT50 (VF1100 & VF1300)
- Direct drive spindle 15000rpm, BBT40
- Motor spindle 20000rpm, HSK A63
- Coolant through spindle
- Oil cooled ballscrew
- Linear encoder
- 4th axis
- 4/5th axis
- Workpiece Probe
- Tool Probe

VF900 • VF1100 • VF1300

- Ultra High Performance



SPECIFICATION

TABLE	VF900	VF1100	VF1300
Table size	1060×600 mm 41.73"×23.62"	1300×600 mm 51.18"×23.62"	1500×650 mm 59.05"×25.59"
T slot(width×number×distance)	18×5×100 mm 0.70"×5×3.93"		
Max.load	650 kg 1433.00 lb	800 kg 1763.69 lb	1000 kg 2204.62 lb
TRAVEL			
X/Y/Z Travel	900/600/600 mm 35.43"/23.62"/23.62"	1100/650/600 mm 43.30"/25.59"/23.62"	1300/650/600 mm 51.18"/25.59"/23.62"
Spindle nose to table	150-750 mm 5.90"-29.52"		
Spindle center to column	652 mm 25.66"	697 mm 27.44"	
SPINDLE			
Spindle taper	CAT40		
Spindle servo motor	11/15 kW 14.75/20.12 hp	15/18.5 kW 20.12/24.81 hp	
Spindle speed	12000 RPM		
TOOL CHANGER			
Tool number	24		
Tool length	300 mm 11.81"		
Max.tool diam. (without adjacent tool)	78(125) mm 3.07"(4.92")		
Max.tool weight	8 kg 17.63 lb		
FEED			
Rapid feed X/Y/Z	36 m/min 1417.32 ipm		
Cutting speed	1-12000 m/min 0.04-472.44 ipm		
ACCURACY			
VDI 3441 (without Linear encoder) (Full travel)	Positioning accuracy 0.010, Positioning repeatability 0.006		Positioning accuracy 0.012, Positioning repeatability 0.008
VDI 3441 (with Linear encoder) (Full travel)	Positioning accuracy 0.006, Positioning repeatability 0.004		Positioning accuracy 0.008, Positioning repeatability 0.006
DIMENSION & WEIGHT			
Dimension	2800 x 2345 x 3000 mm 110.23" x 92.32" x 118.11"	2930 x 2250 x 3150 mm 115.35" x 88.58" x 124.01"	3150 x 3100 x 3150 mm 124.01" x 122.04" x 124.01"
Weight	6000 kg 13227.73 lb	7500 kg 16534.66 lb	7800 kg 17196.05 lb

A Simple Entry to CNC Machining

- Training
- Tool Room workshop
- Metal Parts Machining
- Mold Making
- R&D

DESCRIPTION

- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion



STANDARD EQUIPMENT

- Fully enclosed splash guard
- Belt drive Spindle 10000rpm
- 12 position umbrella tool changer
- Heat exchanger for electrical cabinet
- Rigid tapping
- Ethernet,CF card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Chip flushing system
- User manuals

OPTIONS

- Spindle cooling system
- Workpiece Probe
- Tool Probe

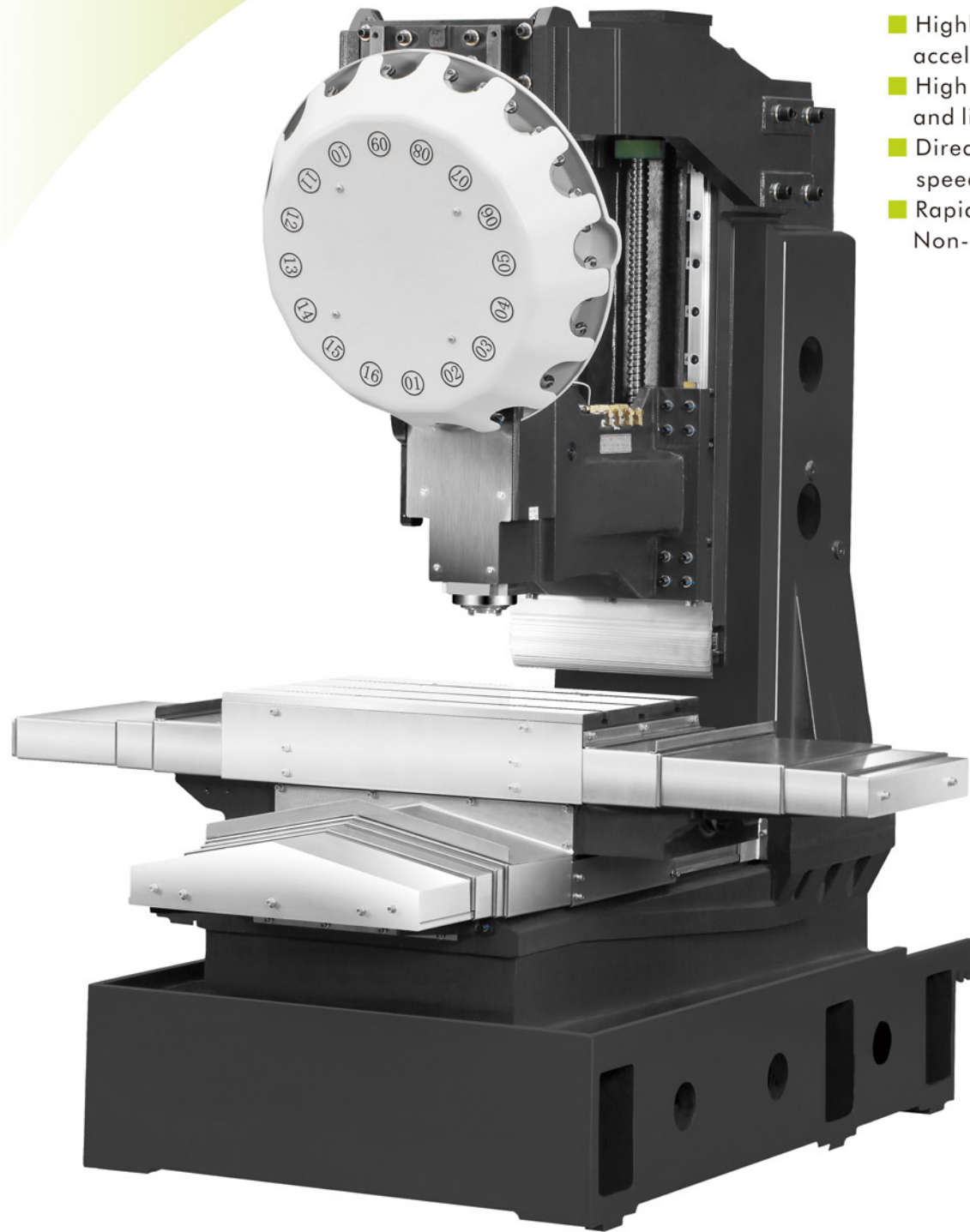
MINI CENTER

- Best choice to start CNC machining



SPECIFICATION

TABLE	MINI CENTER
Table size	650×300 mm 25.59"x11.81"
T slot(width×number×distance)	14×3×100 mm 0.55"x3x3.93"
Max. load	200 kg 440.92lb
TRAVEL	
X/Y/Z Travel	500/300/400 mm 19.68"/11.81"/15.74"
Spindle nose to table	120-520 mm 4.72"-20.47"
Spindle center to column	340 mm 13.38"
SPINDLE	
Spindle taper	CAT40
Spindle servo motor	5.5/7.5 kW 7.38/10.06 hp
Spindle speed	10000 RPM
TOOL CHANGER	
Tool number	12
Tool length	280 mm 11.02"
Max.tool diam. (without adjacent tool)	78(125) mm 3.07"(4.92")
Max.tool weight	8 kg 17.63 lb
FEED	
Rapid feed X/Y/Z	X/Y:20 m/min 787.40 ipm Z:12 m/min 472.44 ipm
Cutting speed	1-10000 mm/min 0.04-393.70 ipm
ACCURACY	
VDI 3441(Full travel)	Positioning accuracy 0.012;Repeatability accuracy 0.008
DIMENSIONS & WEIGHT	
Dimensions	1660×2000×2500 mm 65.35"x78.74"x98.42"
Weight	1800 kg 3968.32 lb



DESCRIPTION

- Highly rigid machine frame for high acceleration
- High speed and low noise ballscrew and linear guideways on three axes
- Direct drive spindle with standard speed 12000rpm
- Rapid feed 48m/min to reduce Non-machining time



STANDARD EQUIPMENT

- Fully enclosed splash guard
- Direct drive spindle 12000 rpm
- 21 pocket tool changer
- Heat Exchanger for electrical cabinet
- Rigid tapping
- Ethernet , CF card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Spindle cooling system
- Electronic Handwheel(MPG)

OPTIONS

- Spindle speed 20000rpm
- 4th axis
- 21 pocket servo tool changer
- Workpiece Probe

- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Chip flushing system
- User manuals

Delta Center T6 • T7

- Good performance, high speed



SPECIFICATION

TABLE	T6	T7
Table size	700×420 mm 27.55"×16.53"	900×420 mm 35.43"×16.53"
T slot(width×number×distance)	14×3×125 mm 0.55"×3×4.92"	
Max.load	350kg 771.61 lb	
TRAVEL		
X/Y/Z Travel	600/400/300 mm 23.62"/15.74"/11.81"	760/450/420 mm 29.92"/17.71"/16.53"
Spindle nose to table	150-570 mm 5.90"-22.44"	
Spindle center to column	465 mm 18.30"	517 mm 20.35"
SPINDLE		
Spindle taper	BT30	BBT30
Spindle servo motor	3.7/5.5 kW 4.96/7.38 hp	
Spindle speed	12000 RPM	
TOOL CHANGER		
Tool number	21	
Tool length	250 mm 9.84"	
Max.tool diam. (without adjacent tool)	60(80) mm 2.36"(3.14")	
Max.tool weight	3 kg 6.61 lb	
FEED		
Rapid feed X/Y/Z	48 m/min 1889.76 ipm	
Cutting speed	1-12000 mm/min 0.04-472.44 ipm	
ACCURACY		
VDI 3441 (Full travel)	Positioning accuracy 0.010; Positioning repeatability 0.006	
DIMENSION & WEIGHT		
Dimension	1760×2450×2300 mm 69.29"×96.45"×90.55"	2200×2600×2500 mm 86.61"×102.36"×98.42"
Weight	3000 kg 6613.86 lb	3700 kg 8157.10 lb

A Simple Entry to CNC Machining

- Training
- Tool Room workshop
- Metal Parts Machining
- Mold Making
- R&D

DESCRIPTION

- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion



STANDARD EQUIPMENT

- Fully enclosed splash guard
- Belt drive Spindle 10000rpm
- 20 pocket arm tool changer
- Heat exchanger for electrical cabinet
- Rigid tapping
- Ethernet,CF card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Chip flushing system
- User manuals

OPTIONS

- Spindle speed 12000rpm direct drive
- Spindle cooling system
- Coolant Through Spindle
- Workpiece Probe
- Tool Probe
- 4th axis

Delta Center V6L

- Good performance, high speed



SPECIFICATION

TABLE	V6L
Table size	750×400 mm 29.52"×15.74"
T slot(width×number×distance)	14×3×125 mm 0.55"×3×4.92"
Max.load	350 kg 771.61 lb
TRAVEL	
X/Y/Z Travel	600/400/450 mm 23.62"/15.74"/17.71"
Spindle nose to table	80-530 mm 3.14"-20.86"
Spindle center to column	434 mm 17.08"
SPINDLE	
Spindle taper	CAT40
Spindle servo motor	5.5/7.5 kW 7.38/10.06 hp
Spindle speed	10000 RPM
TOOL CHANGER	
Tool number	20
Tool length	220 mm 11.02"
Max.tool diam. (without adjacent tool)	78(125) mm 3.07"(4.92")
Max.tool weight	8 kg 17.63 lb
FEED	
Rapid feed X/Y/Z	48 m/min 1889.76 ipm
Cutting speed	1-12000 mm/min 0.04-472.44 ipm
ACCURACY	
VDI 3441 (Full travel)	Positioning accuracy 0.010; Positioning repeatability 0.006
DIMENSION & WEIGHT	
Dimension	1800×2530×2700 mm 70.86"×99.60"×106.29"
Weight	3500 kg 7716.17 lb



DESCRIPTION

- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion

STANDARD EQUIPMENT

- Fully enclosed splash guard
- Belt drive Spindle 10000rpm
- 24 pocket arm tool changer
- Air-conditioned electrical cabinet
- Rigid tapping
- Ethernet,CF card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Chip flushing system
- User manuals

OPTIONS

- Spindle speed 12000rpm direct drive
- Spindle cooling system
- Coolant Through Spindle
- Chain type chip conveyor
- 4th axis
- 4/5th axis
- Workpiece Probe
- Tool Probe

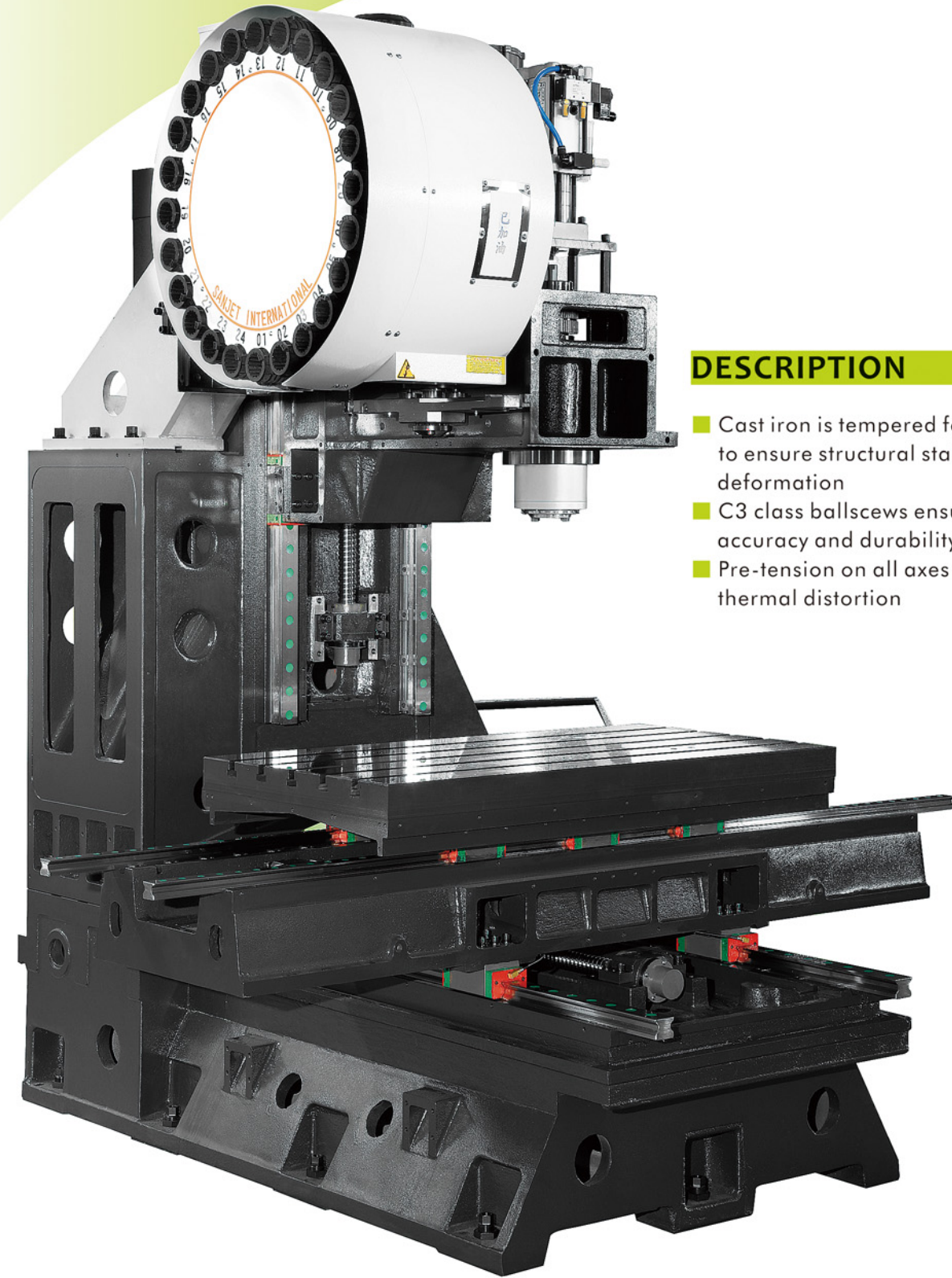
Delta Center V10L

- Good performance, high speed



SPECIFICATION

TABLE	V10L
Table size	1100×500 mm 43.30"×19.68"
T slot(width×number×distance)	18×5×100 mm 0.70"×5×3.93"
Max. load	600 kg 1322.77 lb
TRAVEL	
X/Y/Z Travel	1020/520/550 mm 40.15"/20.47"/21.65"
Spindle nose to table	120-670 mm 4.72"-26.37"
Spindle center to column	566 mm 22.28"
SPINDLE	
Spindle taper	CAT40
Spindle servo motor	7.5kW/11 kW 10.06/14.75 hp
Spindle speed	10000 RPM
TOOL CHANGER	
Tool number	24
Tool length	300 mm 11.81"
Max.tool diam. (without adjacent tool)	78(125) mm 3.07"(4.92")
Max.tool weight	8 kg 17.63 lb
FEED	
Rapid feed X/Y/Z	30 m/min(Opt.48 m/min) 1181.10 ipm(Opt.1889.76 ipm)
Cutting speed	1-12000 mm/min 0.04-472.44 ipm
ACCURACY	
VDI 3441 (Full travel)	Positioning accuracy 0.010; Positioning repeatability 0.006
DIMENSIONS & WEIGHT	
Dimensions	2570×2160×2850 mm 101.18"×85.03"×112.20"
Weight	5000 kg 11023.11 lb



DESCRIPTION

- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion

STANDARD EQUIPMENT

- Fully enclosed splash guard
- Belt drive Spindle 10000rpm
- 24 pocket arm tool changer
- Air-conditioned electrical cabinet
- Rigid tapping
- Ethernet,CF card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Chip flushing system
- User manuals

OPTIONS

- Spindle speed 12000rpm direct drive
- Spindle cooling system
- Coolant Through Spindle
- Chain type chip conveyor
- 4th axis
- 4/5th axis
- Workpiece Probe
- Tool Probe

Alpha Center V7L • V9L • V11L

- High performance, high rigidity



SPECIFICATION

TABLE	V7L	V9L	V11L
Table size	900×420 mm 35.43"×16.53"	1000×500 mm 39.37"×19.68"	1200×600 mm 47.24"×23.62"
T slot(width×number×distance)	14×3×125 mm 0.55"×3×4.92"	18×5×100 mm 0.70"×5×3.93"	18×5×100 mm 0.70"×5×3.93"
Max.load	350 kg 771.61 lb	650 kg 1433.00 lb	800 kg 1763.69 lb
TRAVEL			
X/Y/Z Travel	760/450/520 mm 29.92"/17.71"/20.47"	900/550/600 mm 35.43"/21.65"/23.62"	1100/600/600 mm 43.30"/23.62"/23.62"
Spindle nose to table	100-620 mm 3.93"-24.40"	80-680 mm 3.14"-26.77"	150-750 mm 5.90"-29.52"
Spindle center to column	517 mm 20.35"	585 mm 23.03"	652 mm 25.66"
SPINDLE			
Spindle taper	CAT40		
Spindle servo motor	7.5/11 kW 10.06/14.75 hp	11/15 kW 14.75/20.12 hp	
Spindle speed	10000 RPM		
TOOL CHANGER			
Tool number	24		
Tool length	300 mm 11.81"		
Max.tool diam. (without adjacent tool)	78(125) mm 3.07"(4.92")		
Max.tool weight	8 kg 17.63 lb		
FEED			
Rapid feed X/Y/Z	48 m/min 1889.76 ipm	36 m/min 1417.32 ipm	
Cutting speed	1-12000 mm/min 0.04-472.44 ipm		
ACCURACY			
VDI 3441 (Full travel)	Positioning accuracy 0.010; Positioning repeatability 0.006		
DIMENSION & WEIGHT			
Dimension	2575×2760×2900 mm 101.37"×108.66"×114.17"	2700×2330×2900 mm 106.29"×91.73"×114.17"	
Weight	4500 kg 9920.80 lb	6000 kg 13227.73 lb	6500 kg 14330.04 lb

DESCRIPTION

- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion



STANDARD EQUIPMENT

- Fully enclosed splash guard
- Belt drive Spindle 10000rpm
- 24 pocket arm tool changer
- Air-conditioned electrical cabinet
- Rigid tapping
- Ethernet,CF card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Air blast during cutting
- User manuals

OPTIONS

- Spindle speed 12000rpm direct drive
- Spindle cooling system
- Coolant Through Spindle
- Chain type chip conveyor
- 4th axis
- 4/5th axis
- Workpiece Probe
- Tool Probe

Alpha Center V13L • V15L

- High performance, high rigidity

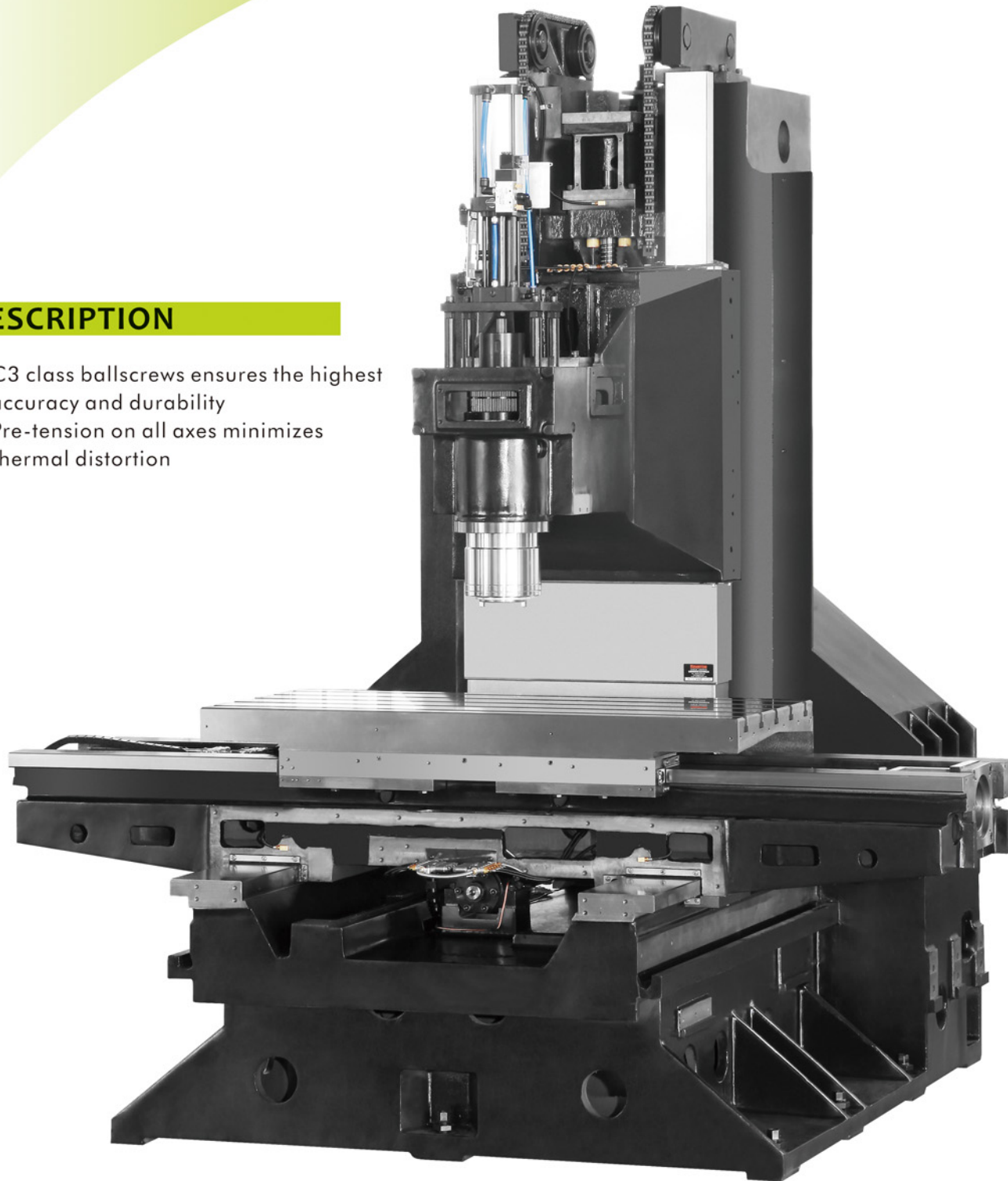


SPECIFICATION

TABLE	V13L	V15L
Table size	1400×600 mm 55.11"×23.62"	1700×600 mm 66.92"×23.62"
T slot(width×number×distance)	18×5×100 mm 0.70"×5×3.93"	18×5×100 mm 0.70"×5×3.93"
Max.load	1000 kg 2204.62 lb	1200 kg 2645.54 lb
TRAVEL		
X/Y/Z Travel	1300/760/670 mm 51.18"/29.92"/26.37"	1500/760/670 mm 59.05"/29.92"/26.37"
Spindle nose to table	80-750 mm 3.14"-29.52"	
Spindle center to column	797 mm 31.37"	
SPINDLE		
Spindle taper	CAT40	
Spindle servo motor	11/15kW 14.75/20.12 hp	
Spindle speed	10000 RPM	
TOOL CHANGER		
Tool number	24	
Tool length	300 mm 11.81"	
Max.tool diam. (without adjacent tool)	78(125) mm 3.07"(4.92")	
Max.tool weight	8 kg 17.63 lb	
FEED		
Rapid feed X/Y/Z	24 m/min 944.88 ipm	
Cutting speed	1-12000 mm/min 0.04-472.44 ipm	
ACCURACY		
VDI 3441 (Full travel)	Positioning accuracy 0.012; Positioning repeatability 0.008	Positioning accuracy 0.015; Positioning repeatability 0.008
DIMENSION & WEIGHT		
Dimension	3700×2640×3100 mm 145.66"×103.93"×122.04"	
Weight	8000 kg 17636.98 lb	8500 kg 18739.29 lb

DESCRIPTION

- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion



STANDARD EQUIPMENT

- Fully enclosed splash guard
- Belt drive Spindle 8000rpm
- 24 pocket arm tool changer
- Air-conditioned electrical cabinet
- Rigid tapping
- Ethernet ,CF Card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Hand wheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Air blast during cutting
- User manuals

OPTIONS

- Spindle cooling system
- 4th axis
- 4/5th axis
- Chain type chip conveyor
- Coolant Through Spindle
- Spindle speed 8000rpm with 16 pockets arm tool changer,CAT50
- Tool Probe
- Workpiece Probe

Power Center V11

- Boxway for heavy duty cutting



SPECIFICATION

TABLE	V11
Table size	1200×600 mm 47.24"×23.62"
T slot(width×number×distance)	18×5×110 mm 0.70"×5×4.33"
Max. load	850 kg 1873.92 lb
TRAVEL	
X/Y/Z travel	1100/600/560 mm 43.30"×23.62"×22.04"
Spindle nose to table	100-660 mm 3.93"-25.98"
Spindle center to column	638 mm 25.11"
SPINDLE	
Spindle taper	CAT40
Spindle speed	8000 RPM
Spindle motor power	15/18.5 kW 20.12/24.81 hp
Arm Tool changer	
Tool number	24
Max.tool diameter(without adjacent tool)	78(125) mm 3.07"/4.92"
Max. tool weight	8 kg 17.63 lb
FEED	
Rapid feed	20 m/min 787.40 ipm
Cutting speed	1-8000 mm/min 0.04-314.96 ipm
ACCURACY	
VDI 3441(Full travel)	Positioning accuracy 0.012 ;Positioning repeatability 0.008
DIMENSION & WEIGHT	
Dimension	3110×2450×2950 mm 122.44"×96.45"×116.14"
Weight	8000 kg 17636.98 lb

Power Center V18

■ Boxway and 50 taper spindle for heavy duty cutting

DESCRIPTION

- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion



Y axis with two roller type linear guideways and two boxways

STANDARD EQUIPMENT

- Fully enclosed splash guard
- Belt drive Spindle 6000rpm
- 24 pocket arm tool changer
- Air-conditioned electrical cabinet
- Rigid tapping
- Ethernet,CF card and USB interface
- Automatic lubrication system
- Coolant system
- Oil separator
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- Air blast during cutting
- User manual

OPTIONS

- Spindle cooling system
- Chip conveyor(Two screw type and one chain type)
- Gear head spindle 6000rpm with transmission ratio 1:4
- Coolant Through Spindle
- 4th axis
- 4/5th axis
- Workpiece Probe
- Tool Probe



SPECIFICATION

TABLE	V18
Table size	1900×900 mm 74.80"×35.43"
T slot(width×number×distance)	18×7×120 mm 0.70"×7×4.72"
Max. load	3000 kg 6613.86 lb
TRAVEL	
X/Y/Z travel	1800/900/700 mm 70.86"/35.43"/27.55"
Spindle nose to table	200-900 mm 7.87"-35.43"
Spindle center to column	1025 mm 40.35"
SPINDLE	
Spindle taper	CAT50
Spindle speed	6000 RPM
Spindle motor power	22/26 kW 29.50/34.87 hp
FEED	
Rapid feed	15 m/min 590.55 ipm
Cutting speed	1-7000 mm/min 0.04-275.59 ipm
Arm Tool changer	
No. of tools	24
Max.tool length	350 mm 13.77"
max. diameter	125 mm/245 mm(next release) 4.92"/9.64"(next release)
Max. tool weight	15 kg 33.06 lb
ACCURACY	
VAI 3441(Full travel)	Positioning accuracy 0.020;Positioning repeatability 0.010
DIMENSIONS & WEIGHT	
Dimensions	4500×3450×3200 mm 177.16"/135.82"/125.98"
Weight	17500 KG 38580.89 lb

APPLICATION:

- Electrodes for EDM Machine
- Small size Steel Mould
- Art jobs

DESCRIPTION

- High rigidity of machine frame for high acceleration
- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion



STANDARD EQUIPMENT

- Fully enclosed splash guard
- Motor spindle 30000rpm, HSK E40
- 12 position umbrella tool changer
- Spindle cooling system
- Ethernet and CF card interface
- Automatic lubrication system
- Coolant system
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Leveling bolts and blocks
- Air gun
- User manuals

OPTIONS

- Graphite Machining Preparation
- Spindle nose to table change to 180-430mm/280-530mm

- Tool Probe

High Speed Double Column Center

V65HS



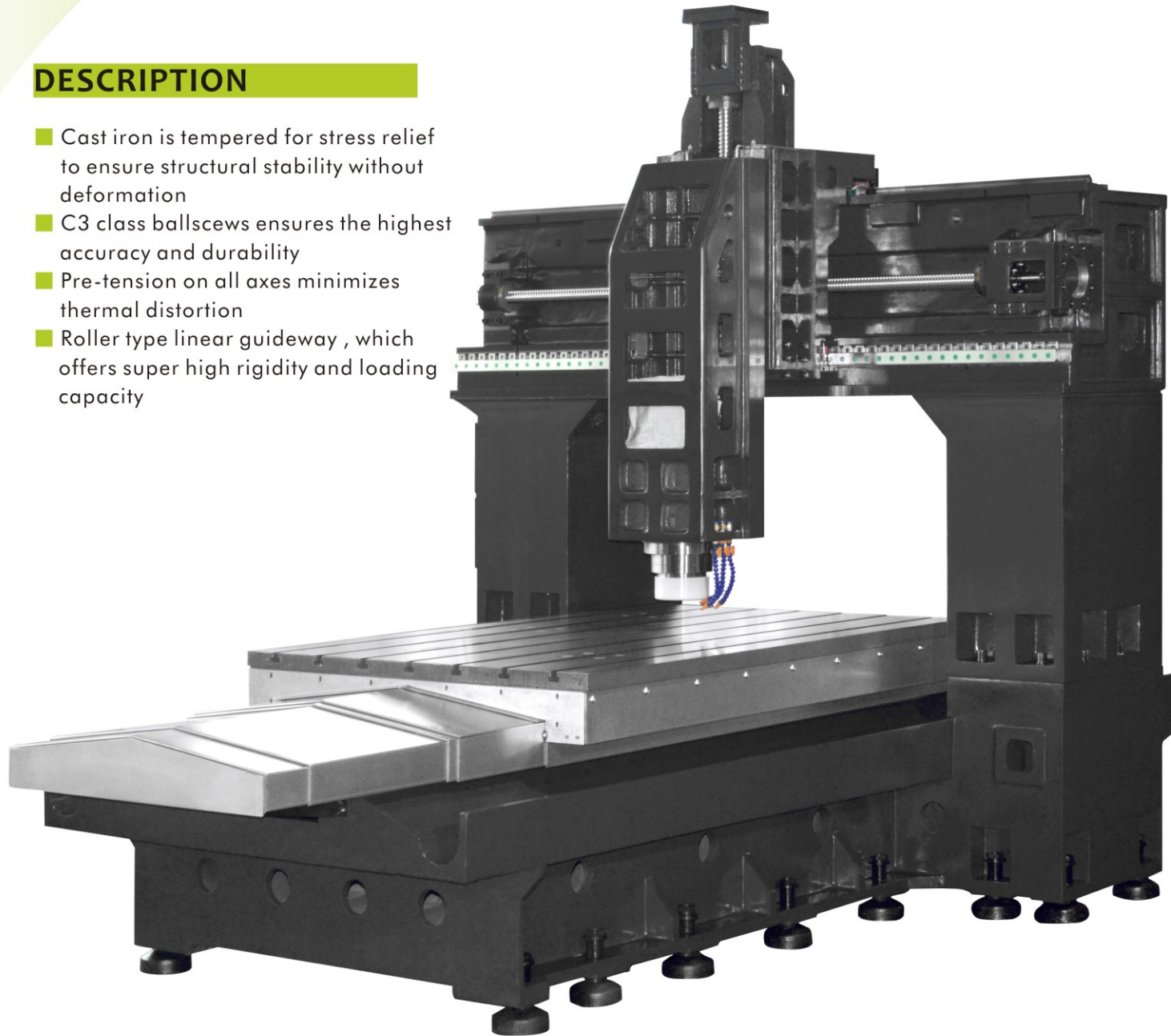
Also with Graphite Machining Preparation!

SPECIFICATION

TABLE	V65HS
Table size	600×500 mm 23.62"×19.68"
T slot(width×number×distance)	18×5×100mm 0.70"×5×3.93"
Max. load	300 kg 661.38 lb
TRAVEL	
X/Y/Z travel	600/500/250mm 23.62"/19.68"/9.84"
Spindle nose to table	80-330 mm 3.14"-12.99"
Spindle center to column	760 mm 29.92"
SPINDLE	
Spindle taper	HSK E40/Φ120mm
Spindle speed	5.5kW 7.38 hp
Spindle motor power	30000RPM
FEED	
Rapid feed	15 m/min 590.55 ipm
Cutting speed	1-8000 mm/min 0.04-314.96 ipm
Arm Tool changer	
No. of tools	12
Max.tool length	150mm 5.90"
max. diameter	20 mm 0.78"
Max. tool weight	3 kg 6.61 lb
ACCURACY	
VDI 341 (Full travel)	Positioning accuracy 0.009; Positioning Repeatability 0.006
DIMENSIONS & WEIGHT	
Dimensions	1750×2000×2300 mm 68.89"×78.74"×90.55"
Weight	3500 kg 7716.17 lb

DESCRIPTION

- Cast iron is tempered for stress relief to ensure structural stability without deformation
- C3 class ballscrews ensures the highest accuracy and durability
- Pre-tension on all axes minimizes thermal distortion
- Roller type linear guideway, which offers super high rigidity and loading capacity



STANDARD EQUIPMENT

- Fully enclosed splash guard
- Direct drive spindle 12000rpm
- Air-conditioned electrical cabinet
- Rigid tapping
- Ethernet and CF card interface
- Automatic lubrication system
- Coolant system
- Spindle cooling system
- LED working lamp
- End of program light
- Electronic Handwheel(MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- User manuals

OPTIONS

- Direct drive spindle 15000rpm
- Motor spindle 20000rpm, HSK A63
- 32 pocket arm tool changer
- Chip conveyor (Two screw type and one chain type)

High Speed Double Column Center

V1613HS



SPECIFICATION

TABLE	V1613HS
Table size	1700×1200mm 66.92"×47.24"
T slot(width×number×distance)	18×7×150mm 0.70"×7×5.90"
Max. load	3000kg 6613.86 lb
TRAVEL	
X/Y/Z travel	1600/1300/600 mm 62.99"/51.18"/23.62"
Spindle nose to table	200-800 mm 7.87"-31.49"
Spindle center to column	1380 mm 54.33"
SPINDLE	
Spindle taper	CAT40
Spindle speed	12000 RPM
Spindle motor power	7.5kW/11 kW 10.06/14.75 hp
FEED	
Rapid feed	20 m/min 787.40 ipm
Cutting speed	1-12000 mm/min 0.04-472.44 ipm
Arm Tool changer	
No. of tools	32
Max.tool length	300mm 11.81"
Max. diameter	78(125) mm 3.07" / 4.92"
Max. tool weight	8 kg 17.63 lb
ACCURACY	
VDI 3441(Full travel)	Positioning accuracy 0.015; Positioning repeatability 0.012
DIMENSIONS & WEIGHT	
Dimensions	4500×2800×3200 mm 177.16"×110.23"×125.98"
Weight	13000 kg 28660.09 lb

Double Column Center

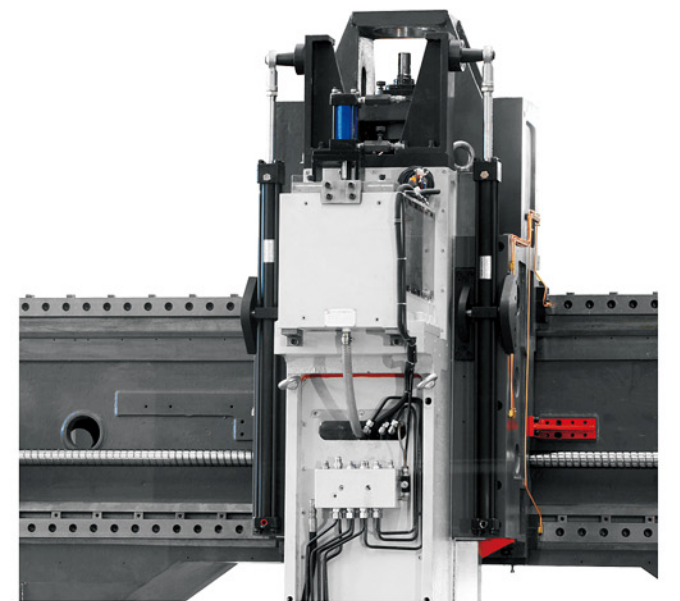
V2317 • V3317 • V3025 • V4025

STANDARD EQUIPMENT

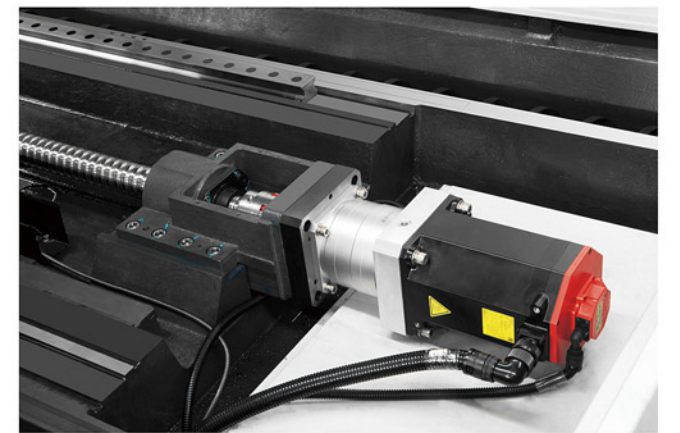
- Fully enclosed splash guard
- Air-conditioned electrical cabinet
- Rigid tapping
- Ethernet, CF card and USB interface
- Automatic lubrication system
- Coolant system
- Spindle cooling system
- LED working lamp
- End of program light
- Electronic Handwheel (MPG)
- Tool box
- Leveling bolts and blocks
- Coolant gun
- Air gun
- User manuals

OPTIONS

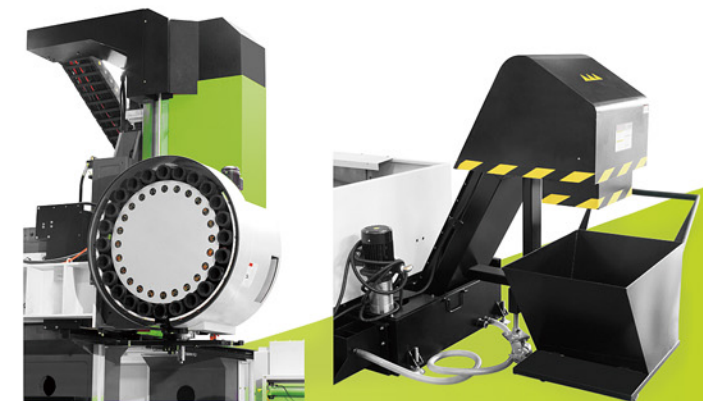
- 24 pocket arm tool changer
- Chip conveyor (Two screw type and one chain type)



Hydraulic balancing system



Gear drive



Tool changer

Chip conveyor

Double Column Center

V2317 • V3317 • V3025 • V4025

DESCRIPTION

- Extra wide column to increase the connection surface with the crossbeam to avoid vibration during cutting
- All axes are moved by high quality precision gear box to ensure high torque and rigidity during movement (V3317 on all axes and V3025/V4025 on X axis)
- Roller type linear guideway, which offers super high rigidity and loading capacity
- Hydraulic balancing system on Z axis



SPECIFICATION

TABLE	V2317	V3317	V3025	V4025
Table size	2300x1500 mm 90.55"x59.05"	3300x1500 mm 129.92"x59.05"	3000x2100 mm 118.11"x82.67"	4000x2100 mm 157.48"x82.67"
T slot(width x number x distance)	22x8x150 mm 0.86"x8x5.90"	22x8x170 mm 0.86"x8x6.69"	28x9x220 mm 1.10"x9x8.66"	28x9x220 mm 1.10"x9x8.66"
Max.load	8000 kg 17636.98 lb	10000 kg 22046.22 lb	8000 kg 17636.98 lb	10000 kg 22046.22 lb
TRAVEL				
X/Y/Z Travel	2300/1600/800 mm 90.55"x62.99"x31.49"	3300/1600/800 mm 129.92"x62.99"x31.49"	3000/2500/1000 mm 118.11"x98.42"x39.37"	4000/2500/1000 mm 157.48"x98.42"x39.37"
Spindle nose to table	240-1040 mm 9.44"-40.94"		105-1105 mm 4.13"-43.50"	
Distance between column	1680 mm 66.14"		2480 mm 97.63"	
SPINDLE				
Spindle taper	SK50			
Spindle servo motor(SIEMENS)	22/26 kW 29.50/34.87 hp			
Spindle speed	6000 RPM			
Spindle transmission	Direct drive	Direct drive	Belt drive	Belt drive
TRANSMISSION WAY OF THREE AXES				
Transmission way of X axis	Gear drive	Gear drive	Gear drive	Gear drive
Transmission way of Y axis	Gear drive	Gear drive	Direct drive	Direct drive
Transmission way of Z axis	Gear drive	Gear drive	Direct drive	Direct drive

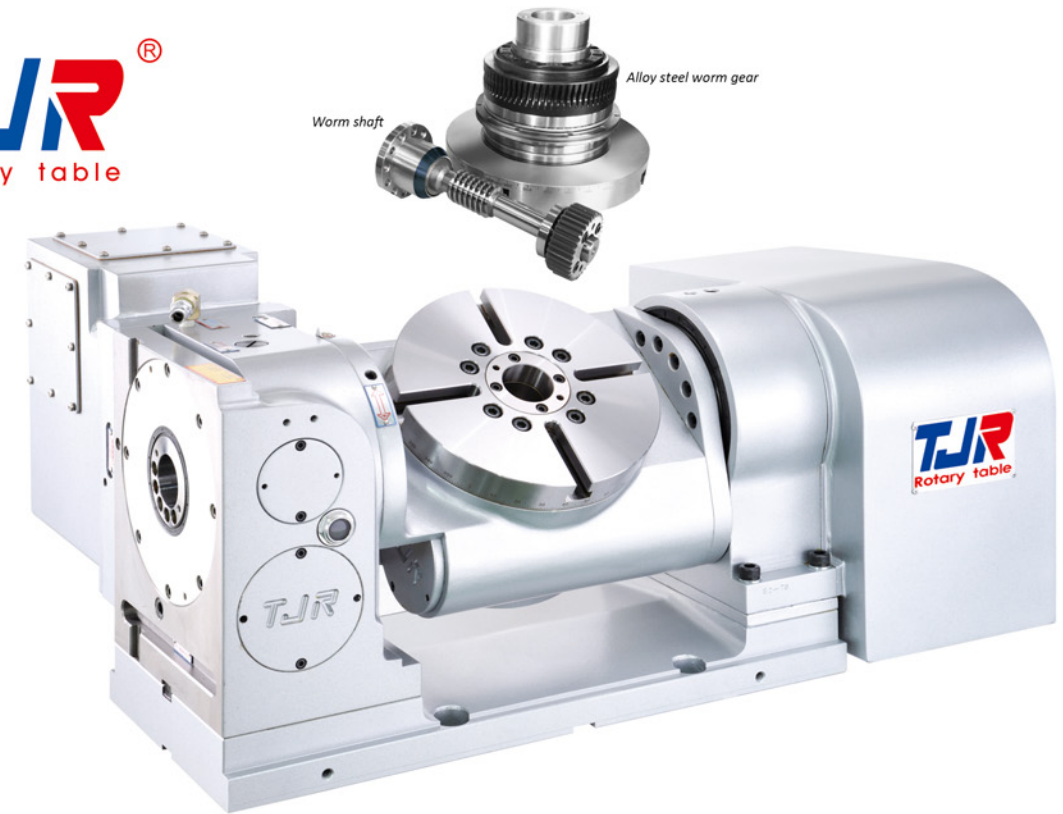
FEED	V2317	V3317	V3025	V4025
Rapid feed X/Y/Z	15/15/12 m/min 590.55/590.55/472.44 ipm		12/12/10 m/min 472.44/472.44/393.70 ipm	10/12/10 m/min 393.70/472.44/393.70 ipm
Cutting speed	1-10000 mm/min 0.04-393.70 ipm			
TOOL CHANGER				
Tool number	24			
Tool length	400 mm 15.74"			
Max.tool diam. (without adjacent tool)	120/250 mm(next release) 4.72"/9.84"(next release)			
Max.tool weight	15 kg 33.06 lb			
ACCURACY				
VDI 3441 (Full travel)	Positioning accuracy 0.016; Positioning repeatability 0.013	Positioning accuracy 0.019; Positioning repeatability 0.015	Positioning accuracy 0.018; Positioning repeatability 0.015	Positioning accuracy 0.025; Positioning repeatability 0.020
DIMENSIONS & WEIGHT				
Dimensions	6700x4700x4550 mm 263.77"x185.03"x179.13"	8700x4700x4550 mm 342.51"x185.03"x179.13"	7800x5300x4950 mm 307.08"x208.66"x194.88"	9800x5300x4950 mm 385.82"x208.66"x194.88"
Weight	24000 kg 52910.94 lb	26000 kg 57320.18 lb	29000 kg 63934.05 lb	33000 kg 72752.54 lb

5 AXIS Rotary Table Available



pl LEHMANN®

TJR®
Rotary table



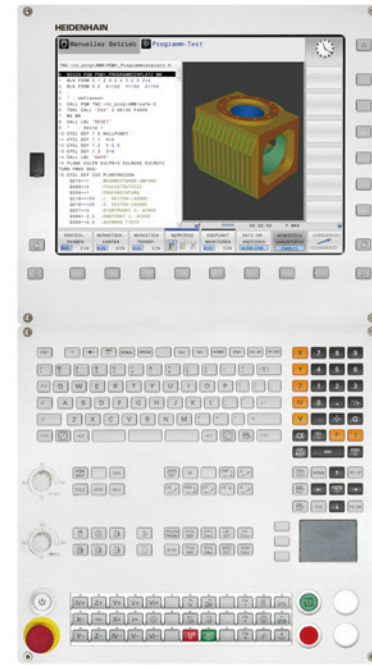
CNC CONTROLLER



FANUC



SIEMENS



HEIDENHAIN

SOURCE OF MAIN COMPONENTS



OPTIONS



CNC Rotary table



Spindle cooling system



Laser Tool Probe



Workpiece Probe



Tool Probe



Coolant Through Spindle

WORKPIECE SAMPLES

