

VTL Series

Heavy Duty CNC Vertical Lathe

The Ultimate in Performance

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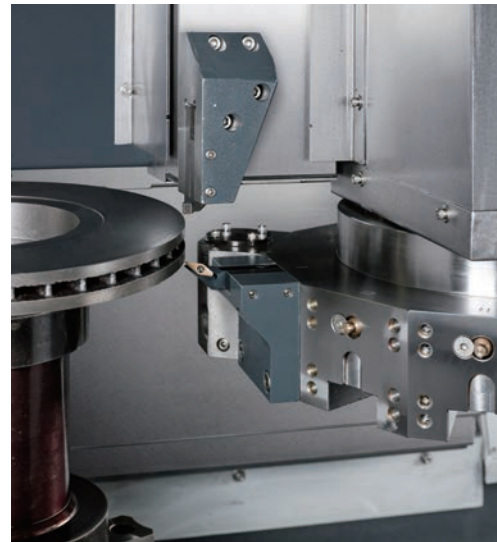
www.leadwell.com.tw

※ All performance are based on 220V/3PH/60HZ. Specification are subject to change without notice.



Rugged Machine Construction A Guarantee of **Rigidity and Stability**

- For big, thin, heavy and irregular work-pieces, it's easy to machine and load/un-load.
- Due to dead weight, that work-piece and fixture combine tightly, and time for loading / unloading is short and stable.
- While clamping, no inertia from dead weight such as Horizontal Type which causes roundness inaccuracy.
- Mutil-function design is easy to operate and low down the cost.
- LEADWELL vertical turning lathes are designed especially for high accuracy, high rigidity, high stability, super heavy cutting, high efficiency and non-symmetric work-pieces.
- Our column that is designed for symmetric heavy box structure provides maximum support for the sliding cross-rail during heavy cutting.
- The outstanding structure and design for high rigidity displays mechanical features under super heavy cutting, which makes machining inaccuracy achieve minimum and its stability to extending cutting tools life.
- X-axis box structure slide-ways are processed as heat treatment and the sliding surfaces are coated Turcite B which assemblies to move with high precision, accuracy and low friction. The highest degree of machining precision will be maintained during heavy uninterrupted cutting operations.
- All that we proud is all products quality would be under strictly control and also assumption for test cutting under all different cutting terms.



*Twin Turret for Break Disc
(Opt)*



*VTL-450 structure
Linear Way*



*VTL-800 structure
Box Way*

VTL Series

LEADWELL Guarantees Superior Stability and Accuracy

VTL-600

■ ERGONOMIC CONSIDERATIONS

- Easy to use membrane touch-pad control station

- High rigid of cross roller guide ways. enable to have heavy cutting.
- Ac servo motor & high accuracy roller ball screw, direct drive, as well as pretension, less of thermal extension, enhance repeatability and positioning accuracy.
- Easy for auto connection machining.
- Friendly design of operation.
- High speed/High accuracy /High rigid spindle using NN series bearing, which is able to take axial & radial cutting.
- Swivel control panel.
- High rigid of construction, base close to square design, less vibration.

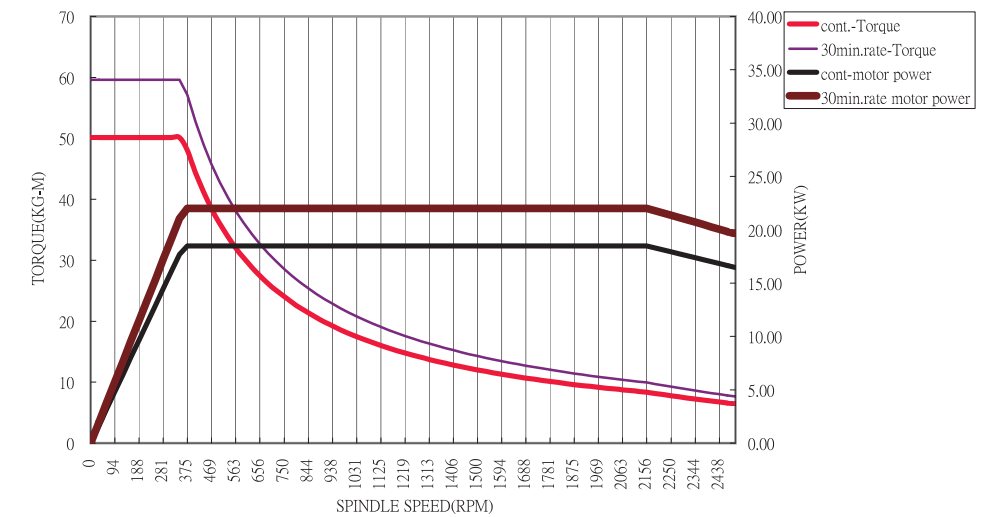


Excellent Disposal for Chips & Coolant

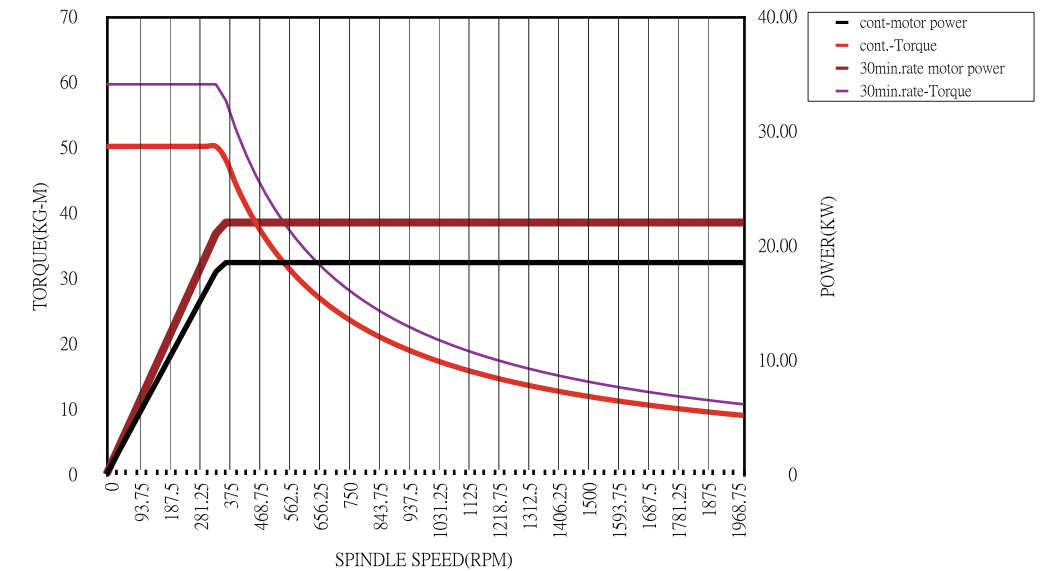
- The wide chip conveyor is easy for chip removal.

Spindle Torque Drawing

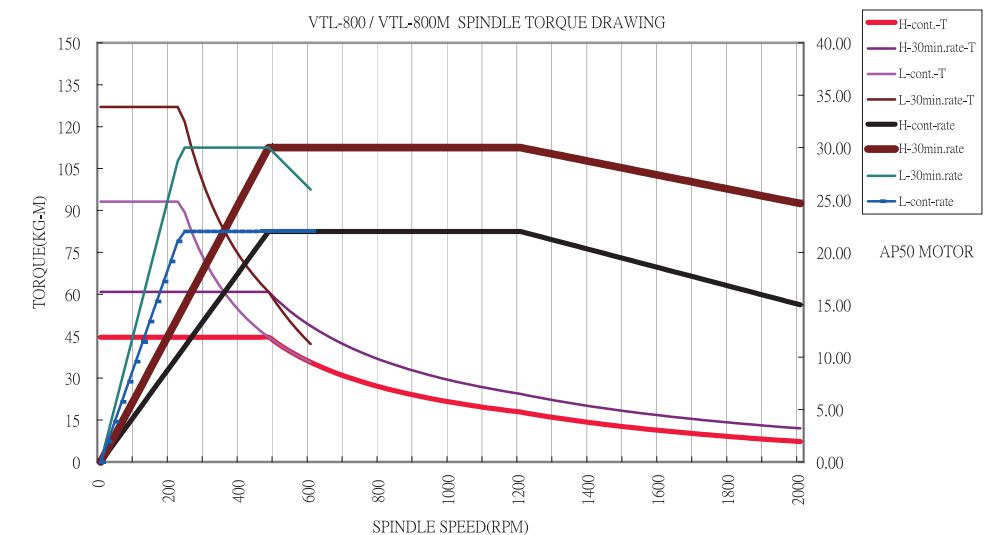
VTL-450 FANUC AP40 SPINDLE TORQUE DRAWING



VTL-600 / VTL-600M FANUC AP40 SPINDLE TORQUE DRAWING



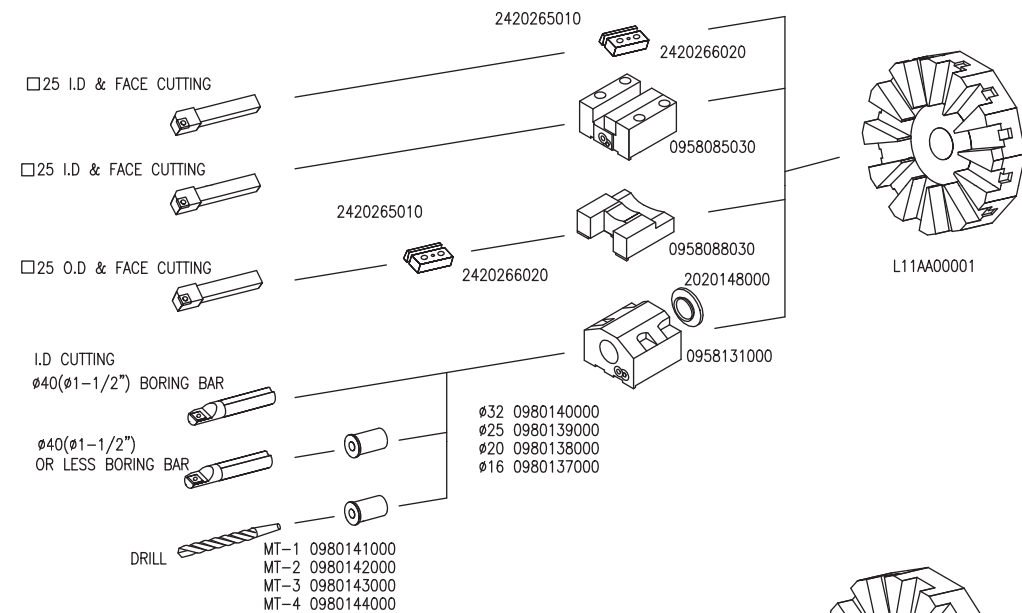
VTL-800 / VTL-800M SPINDLE TORQUE DRAWING



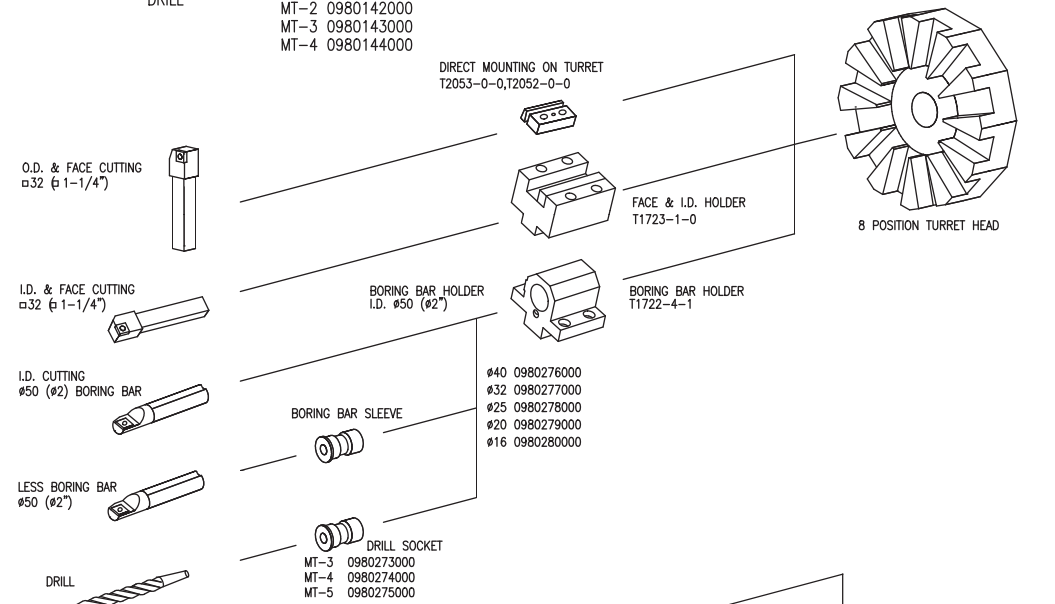
VTL- Series

Tooling System

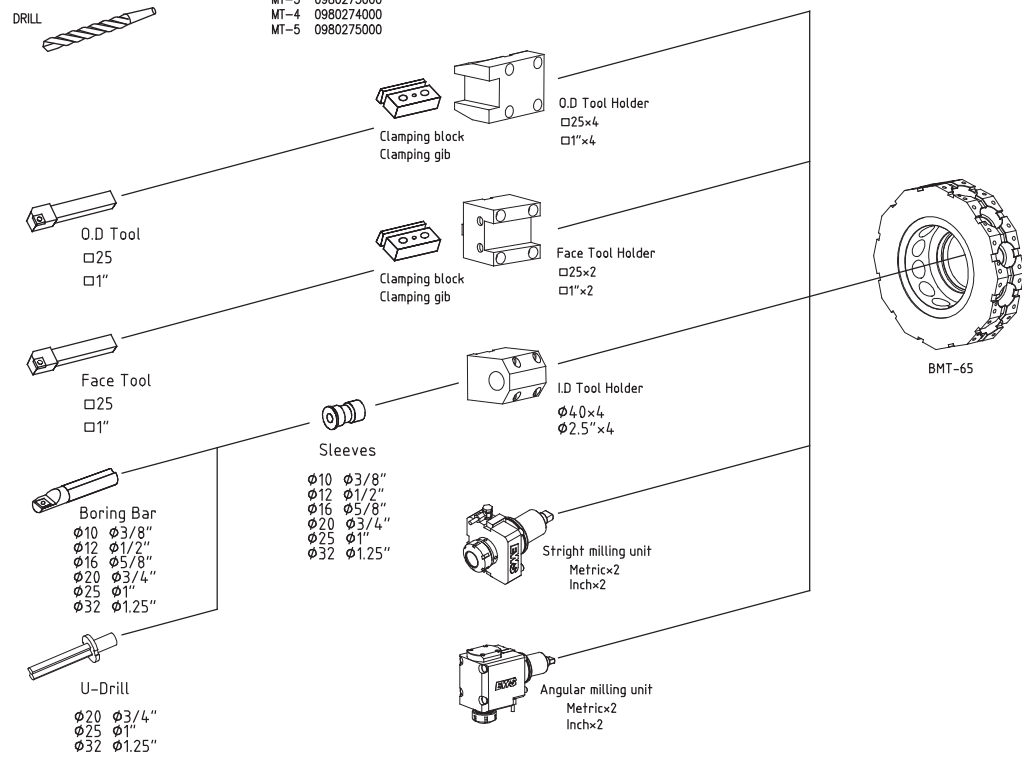
VTL-450



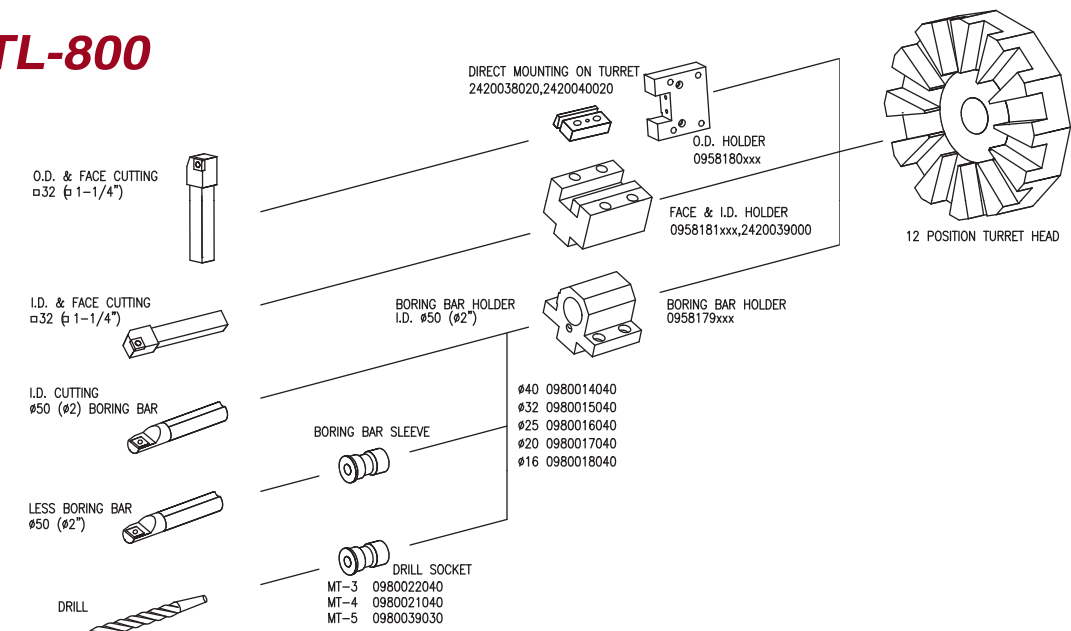
VTL-600



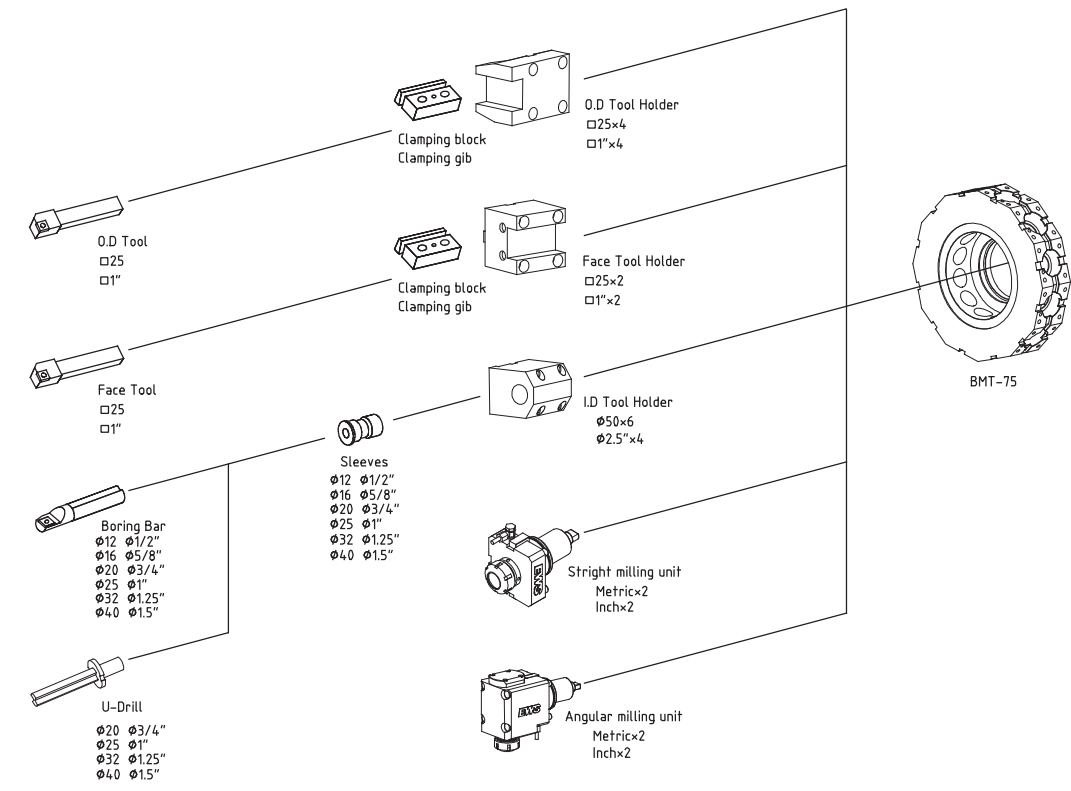
VTL-600M



VTL-800

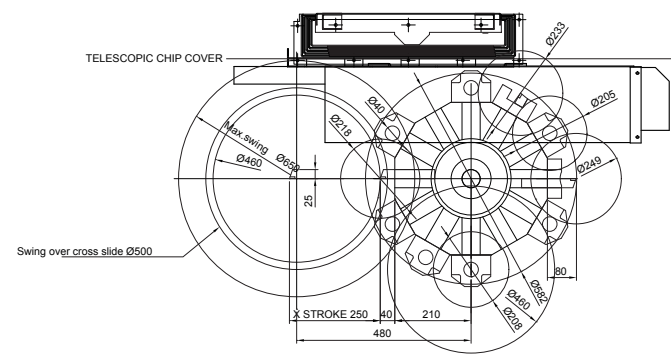
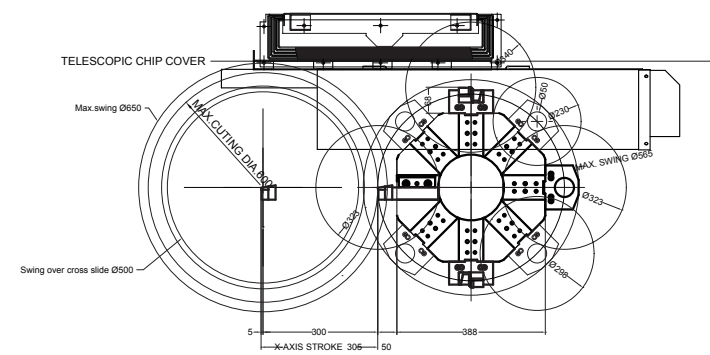


VTL-800M

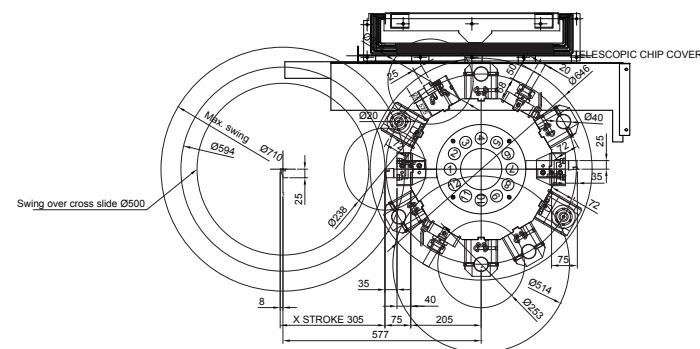


VTL- Series

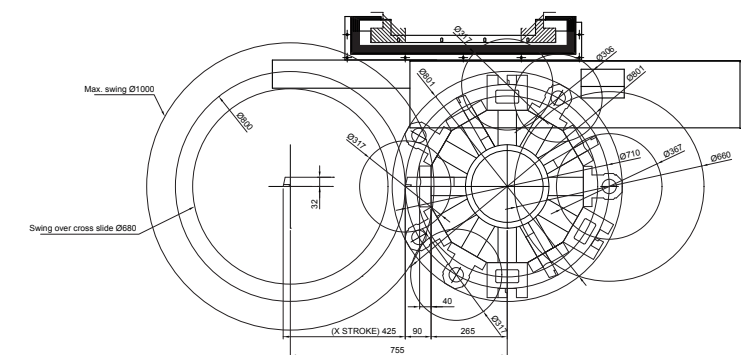
Tooling Interference

VTL-450**VTL-600**

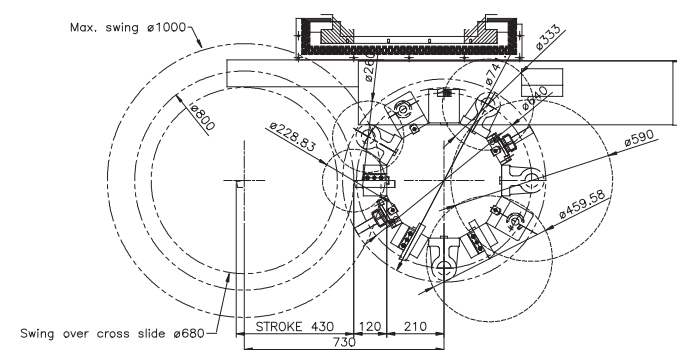
VTL-600M



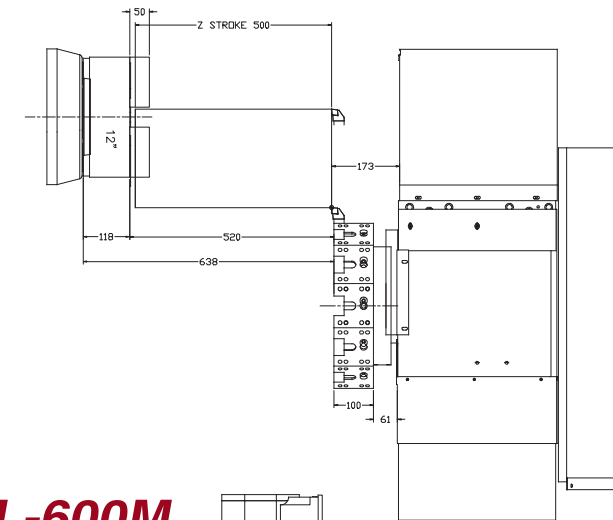
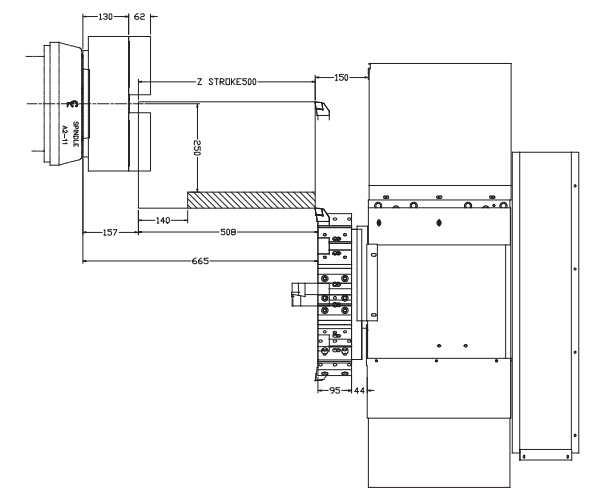
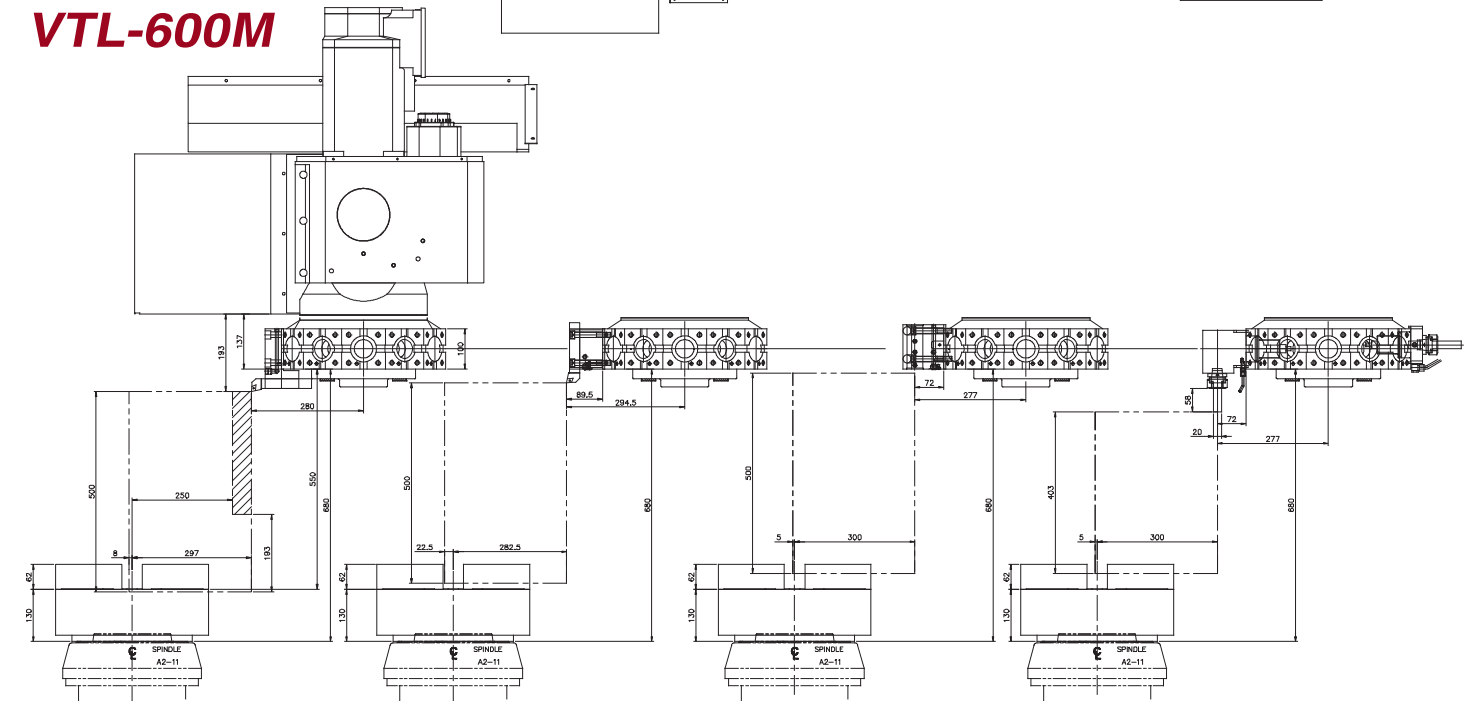
VTL-800



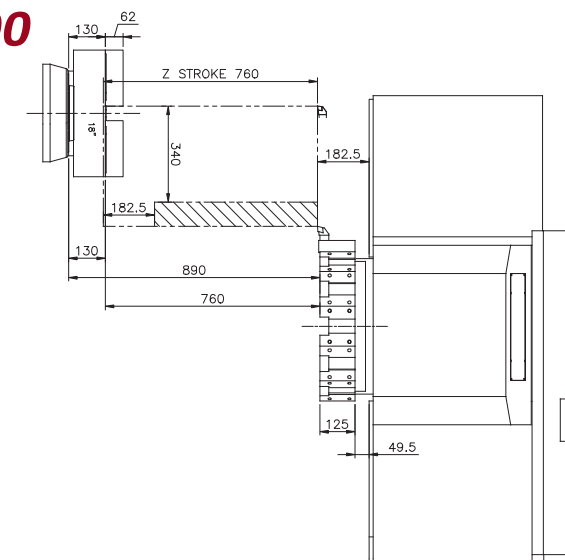
VTL-800M



Working Capacity

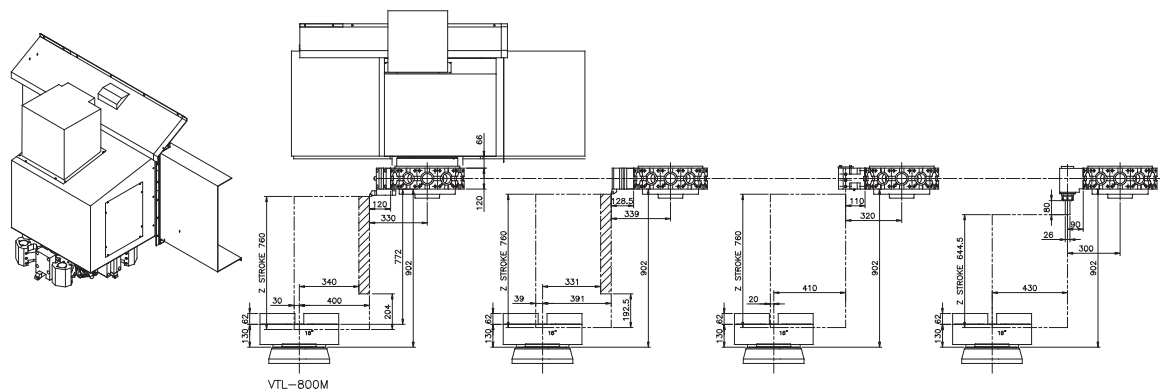
VTL-450**VTL-600****VTL-600M**

VTL-800



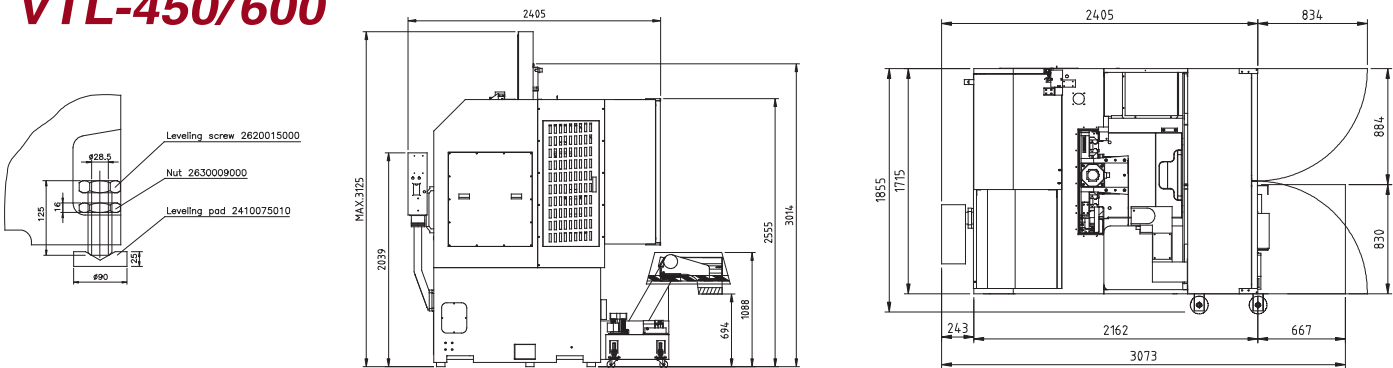
Working Capacity

VTL-800M

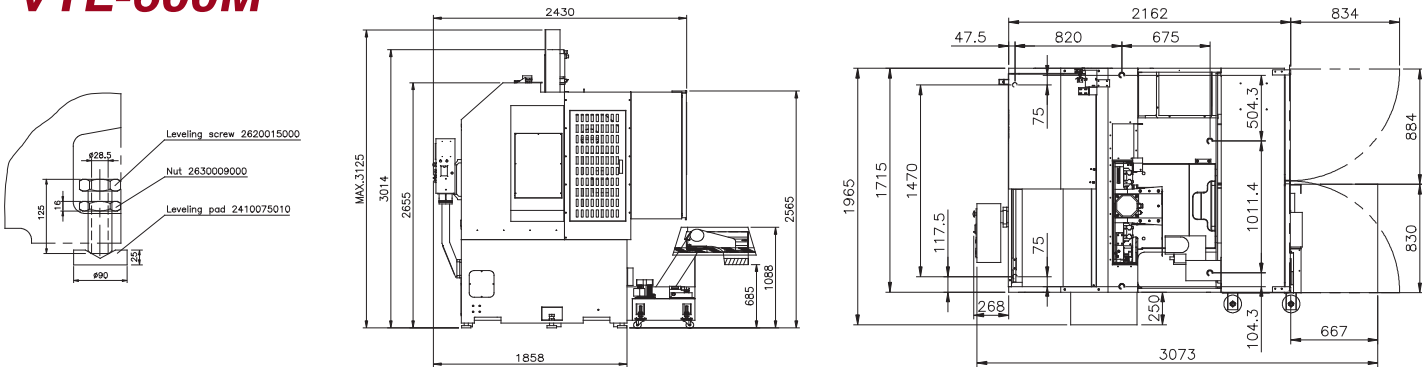


Machine Size

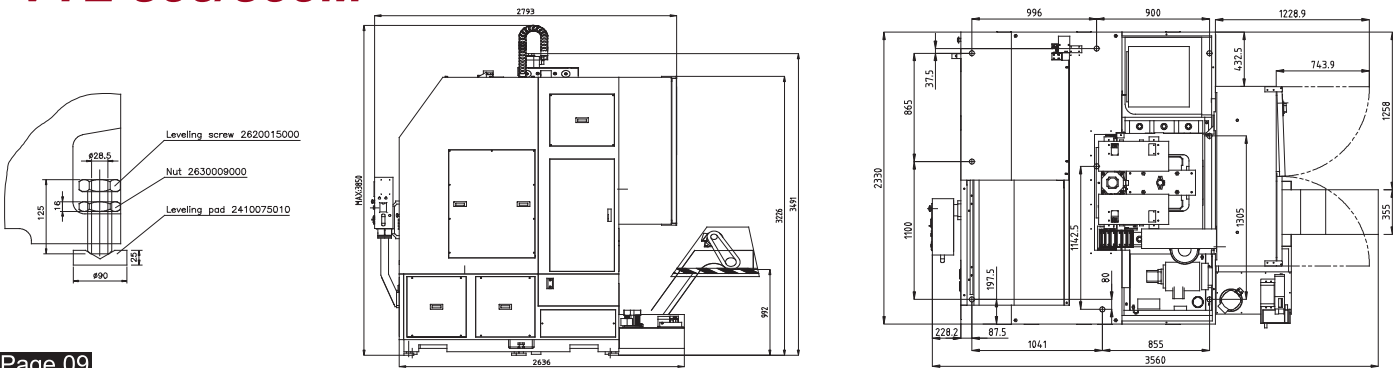
VTL-450/600



VTL-600M



VTL-800/800M



ITEM	MODEL		VTL-450	VTL-600	VTL-600M	VTL-800	VTL-800M
CAPACITY		Unit					
Max. swing	mm		650	700	710	900	900
Swing Over Cross Slide	mm		500	500	500	680	680
Max. turning diameter	mm		460	600	600	800	800
Max.turning length	mm		500	500	500	760	760
Max. workpiece weight	kg		800	1000	1000	1500	1500
SPINDLE							
Chuck size	mm/in		350 / 12"	381 / 15"	381 / 15"	457 / 18"	457 / 18"
Spindle speed	rpm		2500	2000	2000	2000	2000
Max spindle torque	N. m		583	583	583	1245	1245
TURRET							
Number of tool station	mm		12	8	12	12	12
Tool shank size	mm		□ 25 ø 40	□ 32 ø50	□ 25 ø40 BMT 65	□ 32 ø50	□ 25 ø50 BMT 75
FEED							
Rapid rate (X-Axis)	m/min		20	20	20	20	20
Rapid rate (Z-Axis)	m/min		24	24	24	20	20
X-Axis travel	mm		250	305	305	425	430
Z-Axis travel	mm		500	500	500	760	760
Cutting feed rate	mm/rev		0.01~500	0.01~50	0.01~500	0.01~500	0.01~500
Feed override	%		0-150	0-150	0-150	0-150	0-150
MOTORS							
Table main motor(con/30 min.)	kW		18.5 / 22	18.5 / 22	18.5 / 22	22 / 30	22 / 30
Feed servo motor(X/Z axis)	kW		3 / 4	3 / 4	3 / 4	4 / 7	4 / 7
MACHINE SIZE							
Power requirement	kVA		45	45	45	70	70
Floor space (L x W)	mm		3073 x 1855	3073 x 1855	3073 x 1965	3560 x 2330	3560 x 2330
Max . Height (H)	mm		3125	3125	3125	3850	3850
Net. Weight	kg		7000	8000	8000	13500	13700
Control	fanuc		0i-T	0i-T	0i-T	0i-T	0i-T

All specifications, design and characteristics shown on this catalogue are subject to change without prior notice.

STANDARD ACCESSORIES

- Complete splash guard (and Safety door)
- Hydraulic unit
- 3-jaw non through hole chuck
- Automatic lubrication system
- Work light
- Three color warning light
- Coolant though tool holder
- Heat exchanger for electrical cabinet
- Service tool box & tool kits
- Leveling bolts & seat pads
- Chip conveyor
- Chip trolley
- Coolant system with tank

OPTIONAL ACCESSORIES

- Air conditioner for electrical cabinet
- Transformer for power source 220V, 380V, 440V
- Oil Separator for coolant
- Tool Measuring device
- Linear scale for X & Z axis (closed loop control system)
- Oil mist collector
- Twin turret by servo motor