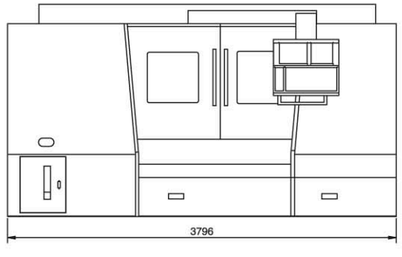
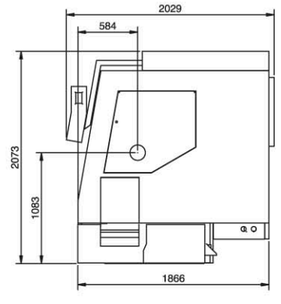
SPECIFICATIONS

ITEMS \ MODEL	UNIT	VT-2100YMS	VT-2100YM	VT-2300YMS	VT-2300YM	VT-2800YMS	VT-2800YM	VT-3000YMS	VT-3000YM
CAPACITY									
Swing over Z way cover	mm(inch)	600 (23.6")							
Max. turning diameter	mm (inch)	350 (13.8")							
Swing over cross slide	mm (inch)	480 (18.9")							
Distance between centers	mm	-	600/1100	-	1600/2100	-	1600/2100	-	1600/2100
Slideway slant angle	degree	30°+ 30°							
TRAVEL									
X-axis travel	mm (inch)	195+110 (7.7"+4.3")							
Z-axis travel	mm	1000/1500/2000	600/1100/1600/2100	1000/1500/2000	600/1100/1600/2100	1000/1500/2000	600/1100/1600/2100	1000/1500/2000	600/1100/1600/2100
Y-axis travel	mm (inch)	±60(±2.4")							
W-axis travel	mm	1100/1600/2100	-	1100/1600/2100	-	1100/1600/2100	-	1100/1600/2100	-
SPINDLE									
Type of spindle nose	ISO	A2-6		A2-8		A2-8		A2-11	
Main spindle through capacity	mm (inch)	62 (2.4")		75 (2.9")		87 (3.4")		105 (4.1")	
Main chuck type	mm (inch)	203 (8")		254 (10")		254 (10")		305 (12")	
Main spindle through bar capacity	mm (inch)	52 (2.1")		65 (2.6")		77 (3")		90 (3.5")	
Main spindle speed	rpm	4500		4000		3500		3000	
Main spindle drive motor(cont/30min)	HP	20		20		35		35	
Sub. chuck type	mm (inch)	6"	-	6"	-	8"	-	8"	-
Sub. spindle drive motor(cont/30min)	HP	7.5	-	7.5	-	10	-	10	-
Sub. spindle speed	rpm	5000	-	5000	-	4000	-	4000	-
Sub. spindle through bar capacity	mm (inch)	42 (1.7")	-	42 (1.7")	-	52 (2.1")	-	52 (2.1")	-
TURRET									
Toolholder type		VDI 40							
Shank height of square tool	mm (inch)	□2 5 (□1")							
Shank diameter for boring bar	mm (inch)	Ø4 0 (Ø1.6")							
Torque	NM	22	36	22	36	22	36	22	36
FEEDRATE									
Ballscrew diameter of x-axis	mm (inch)	Ø 28xP6 (Ø 1.1"xP0.2)							
Ballscrew diameter of z-axis	mm (inch)	Ø 40xP10 (Ø 1.6"xP0.4)							
Ballscrew diameter of y-axis	mm (inch)	Ø 32xP8 (Ø1.3"xP0.3)							
Ballscrew diameter of w-axis	mm	Ø40xP10	-	Ø40xP10	-	Ø40xP10	-	Ø40xP10	-
TAILSTOCK									
Tailstock spindle diameter	mm (inch)	-	85 (3.4")	-	85 (3.4")	-	110 (4.3")	-	110 (4.3")
Tailstock spindle travel	mm (inch)	-	80 (3.2")	-	80 (3.2")	-	100 (3.9")	-	100 (3.9")
Taper hole of tailstock spindle		-	MT 4	-	MT 4	-	MT 5	-	MT 5
REMARKS									
Floor space	mm (inch)	3800x1900x2100 (150"x75"x83")							
Machine weight (appro.)	kg(lbs)	6600 (14520 lbs)		6700 (14740 lbs)		6900 (15180 lbs)		7000 (15400 lbs)	

• Specifications are subject to change without prior notice.

MACHINE DIMENSIONS





ALEX-TECH
ISO9001/CE

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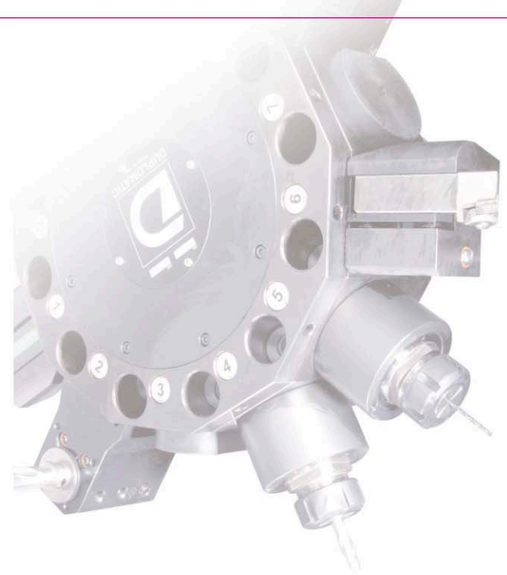
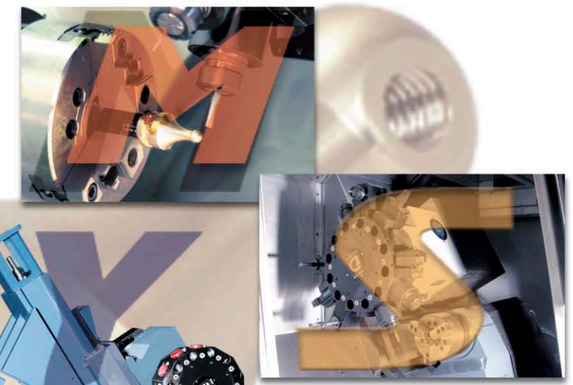


YMS *series*

VIPER™



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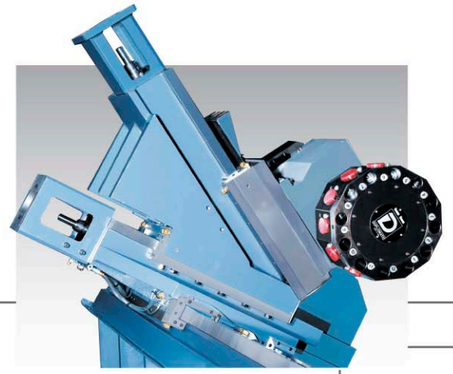
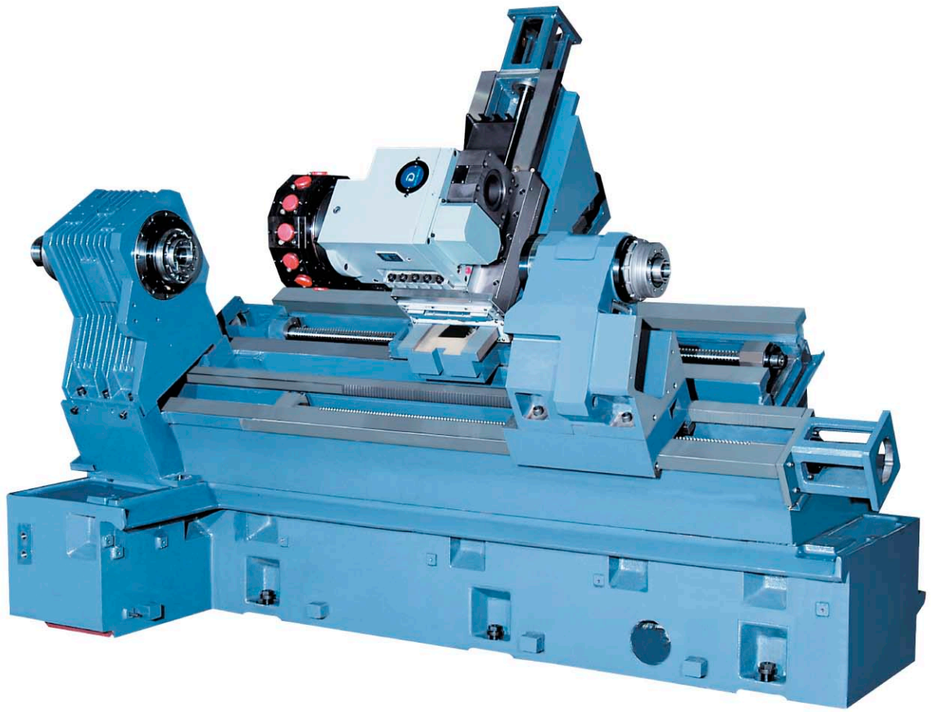
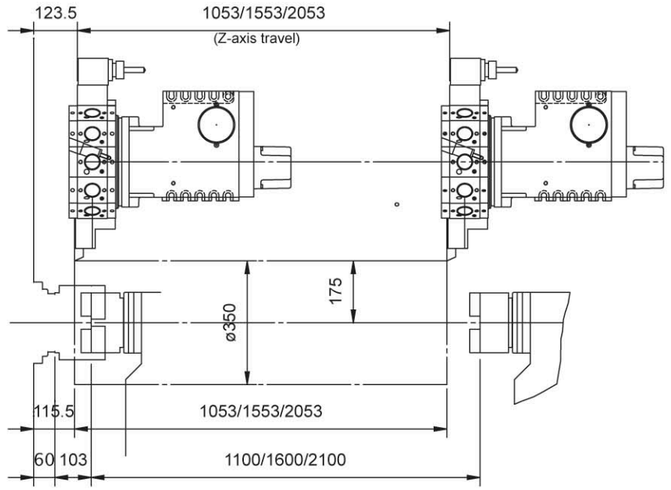
SLANT-BED CONSTRUCTION

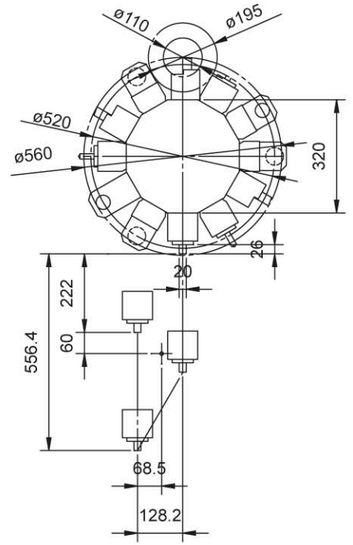
The machine features a super rigid pipe-structured 30 degree bed and a 30 degree compound Y slide on the X axis sliding seat. During heavy-duty cutting, turning or milling operation, it demonstrates excellent stability and versatility

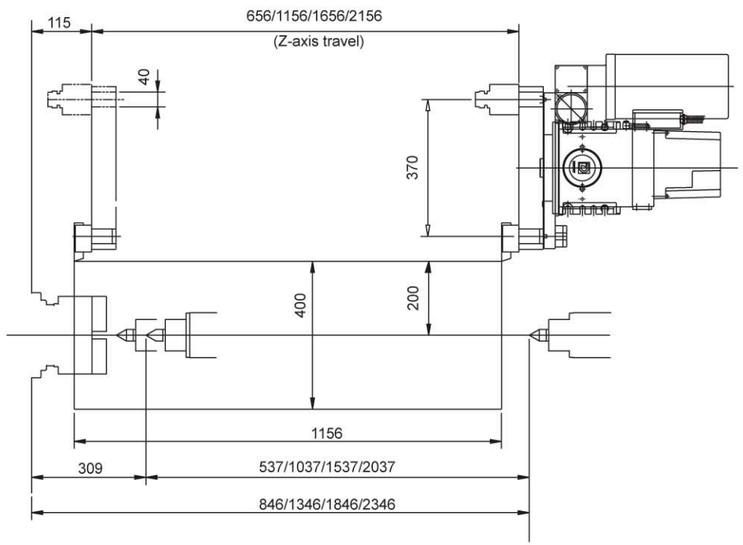


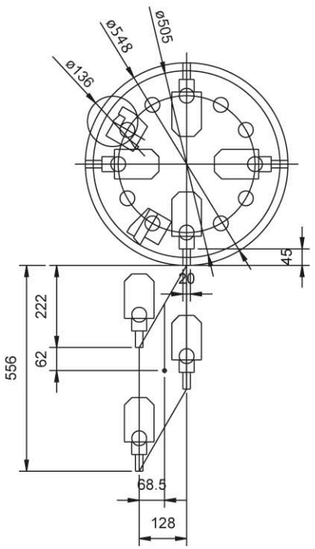


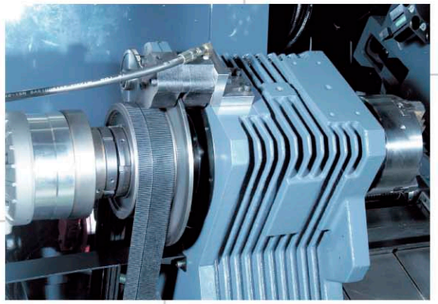
YMS series Tool Interference Diagram



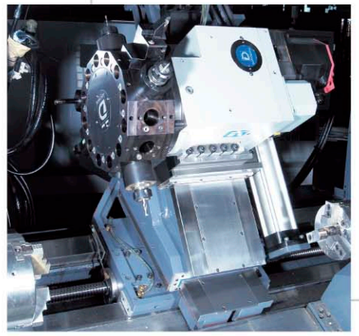






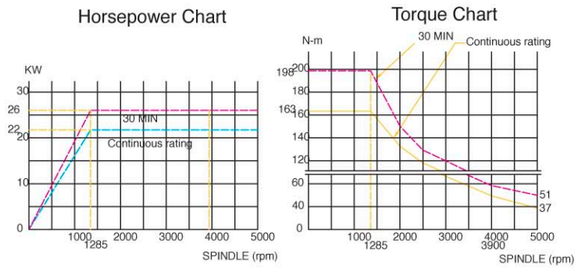


C-axis: There are 2 stages of pressure reduction in clamping the C axis to obtain high precision and stability in turning and milling operations.

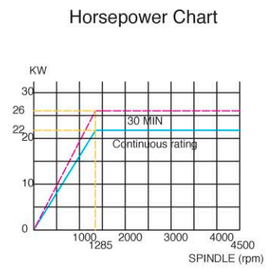


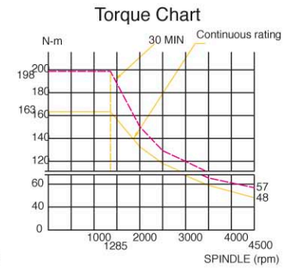
A 30 degree Y slide moves bi-directionally on the 30 degree X-sliding seat to provide a combination of single or two axis travel in X and Y. In particular, a balancing cylinder is added to ensure equal torques in “+” or “-“ directional movement..

VT-2100YMS MAIN SPINDLE

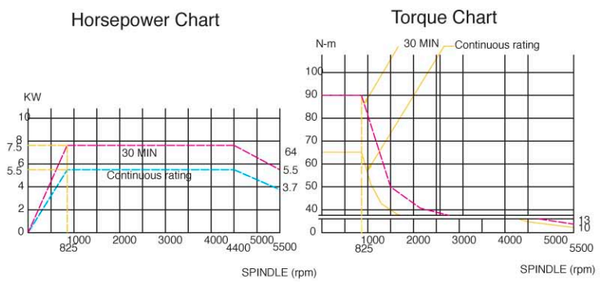


VT-2300YMS MAIN SPINDLE

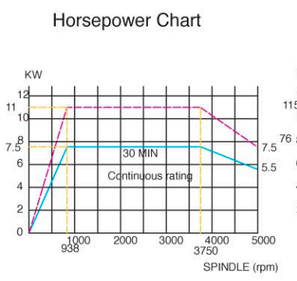


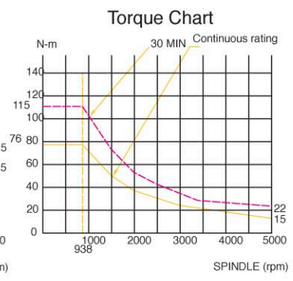


VT-2100YMS SUB SPINDLE



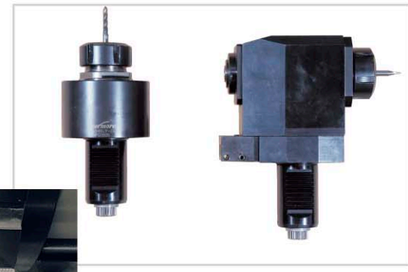
VT-2300YMS SUB SPINDLE

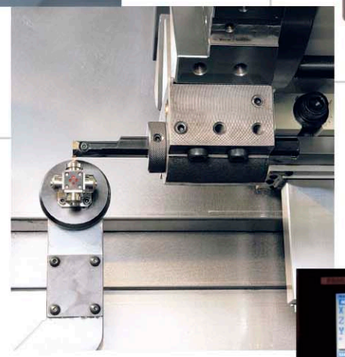




• Part Catcher

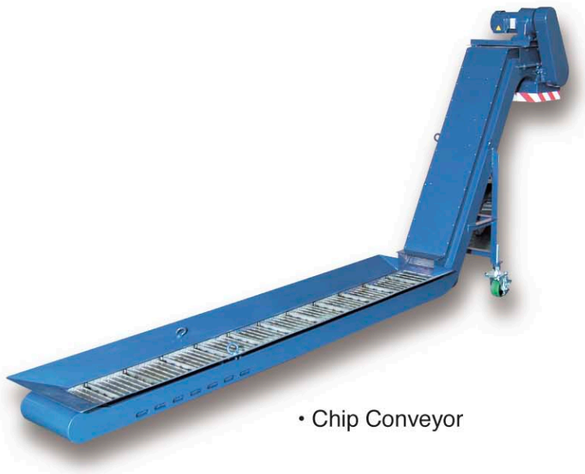
• Live Tooling





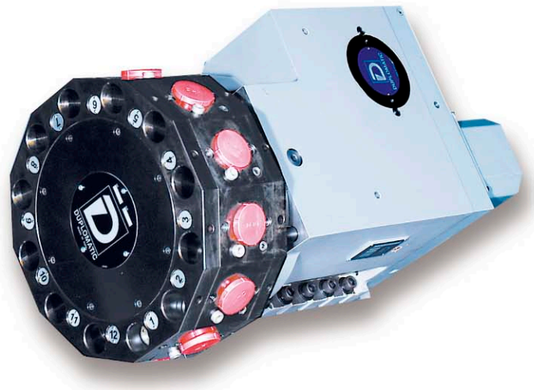
• Tool setter

• Manual Guide i

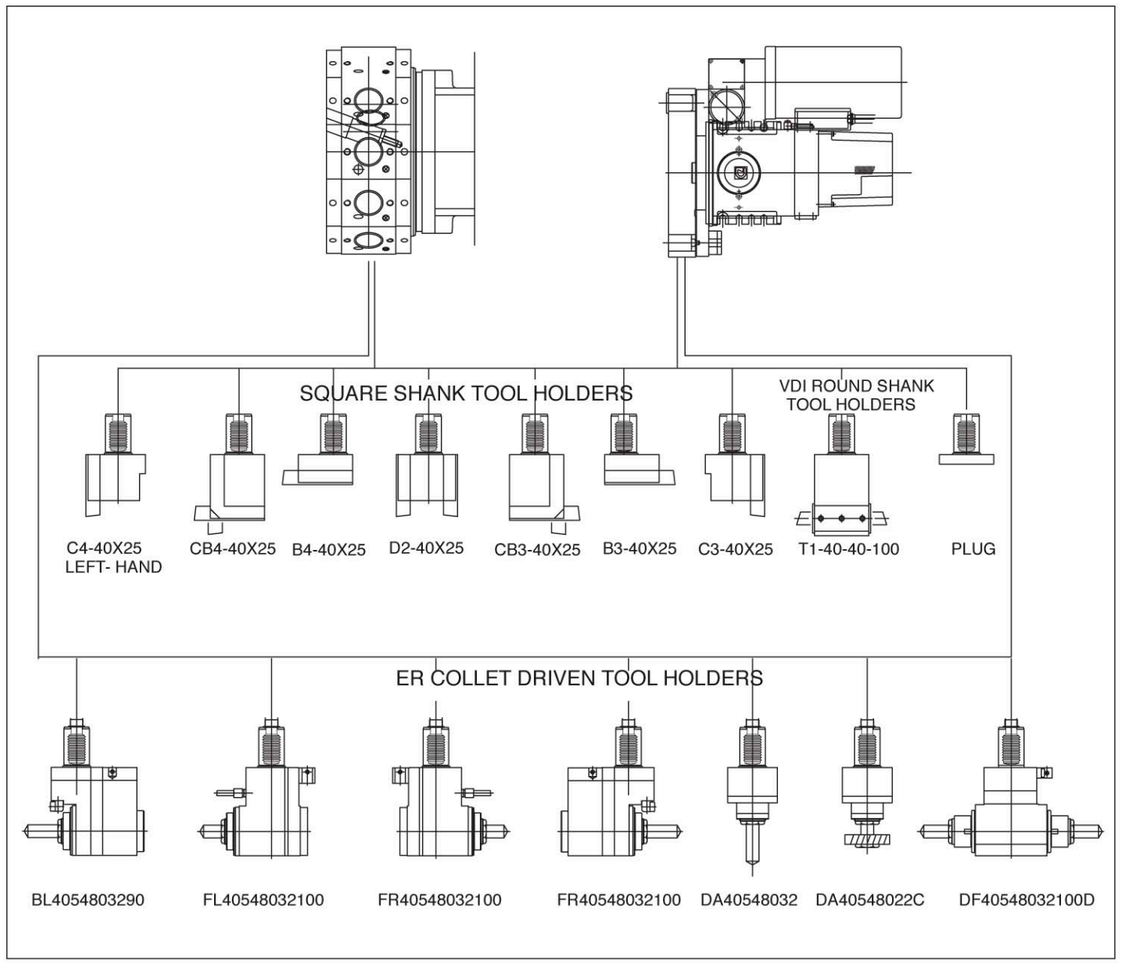


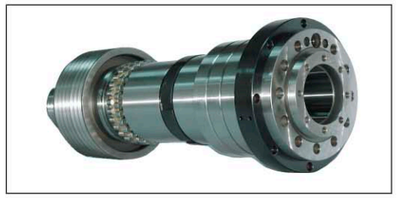
• Chip Conveyor

• Bar Feeder



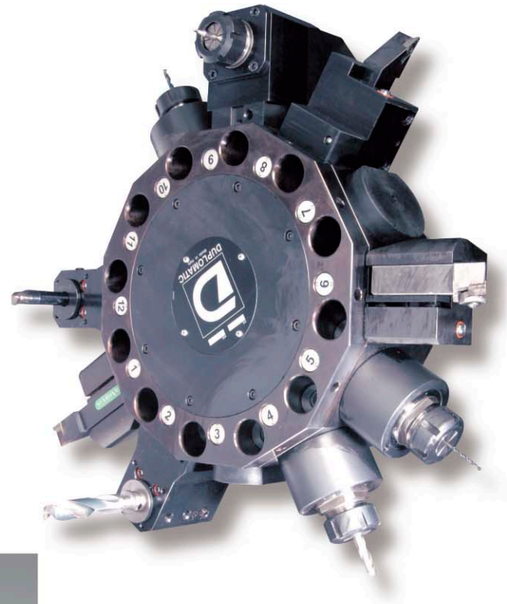
VDI 40
COUPLING 5480
RADIAL TURRET





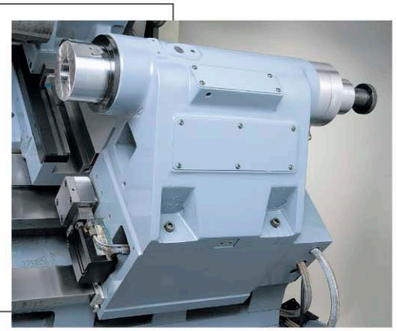
Spindle: The spindle is made of special alloy steel, and manufactured with complex machining procedures to obtain the optimum precision and durability.

Ballscrew: High precision bearings and coupling are used to support the super precision ballscrews to ensure reliability in positioning.



Turret: With DN-P model VDI turret, the tip of O.D tool and the center of I.D tool are aligned on the same spindle center line. The tool set up procedure is thus simplified.

With the pulley headstock design, the external casting ribbing acts as a heat sink, dissipating any resulting heat effectively.



Sub-spindle: This machine may be equipped with servo driven sub-spindle or programmable tailstock. It provides flexibility to cope with a wider range of applications.