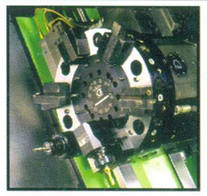
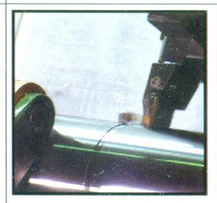
MIVEN Machine Tools

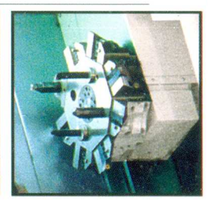
MIVEN MACHINE TOOLS LIMITED

An ISO 9001:2000 Certified Company

The Closer you look into a Warner & Swasey Turning Center
The further your expectations are exceeded







SLANT BED

UNIVERSAL SERIES

CNC LATHES

UNIVERSAL SERIES : SLANT BED

MIVEN Machine Tools

Specifications	WSU-12	WSU-15	WSU-18
Chuck Size	315 mm	400 mm	500 mm
Max.turning diameter (chucking/bet'n center)	400/315 mm	500/390 mm	600/500 mm
Swing over way covers	660 mm	660 mm	780 mm
Swing over Carriage	381 mm	400 mm	500 mm
Turning Length (ABC)	1000/1500/2000/2500/3000mm	1000/1500/2000/2500/3000mm	1000/1500/2000/2500/3000mm
Spindle Nose	A2-8	A2-11	A2-15
Hole through spindle	90 mm	116 mm	165/192 mm
Spindle speed range	30-3000 rpm	21-1800 rpm	21-1800 rpm
Cont. Power rating	18.5 Kw	18.5 / 37 Kw	18.5 / 37 Kw
30 minutes power rating	22 Kw	22 / 45 Kw	22 / 45 Kw
Longitudinal stroke	1081/1581/2081 mm	1081/1581/2081 mm	1081/1581/2081 mm
Cross Stroke	354/2581/3081 mm	354/2581/3081 mm	354/2581/3081 mm
Rapid Traverse Rate X/Z	12/12 M / min	12/12 M / min	12/12 M / min
Maximum Threading rate	5 M / min	5 M / min	5 M / min
Ball Screw Diameter/pitch	40 mm / 10 mm	40 mm / 10 mm	40 mm / 10 mm
Number of tool station	12 station (8 on OD + 4 Face)	12 station(8 on OD + 4 Face)	8 station on OD
Index time for 1 station	2 Sec.	2 Sec	2 Sec
OD Tool Shank Size	32 x 32 mm	32 x 32 mm	32 x 32 mm
ID Bar Diameter	50 mm	50 mm	50/ 63.5 mm
Tailstock Quill Stroke	76/130/170 mm	76/130/170 mm	170 mm
Tailstock Quill Diameter	130 mm	130 mm	160 mm
Tailstock Centre	MT4	MT4	MT5
Tailstock Position & Lock	Manual	Manual	Manual
Machine Length	4752/5252/5965 mm	4752/5252/5965 mm	4670/5170/5870 mm
Machine Depth	3055 mm	3055 mm	3055 mm
Machine Height	2070 mm	2070 mm	2270 mm
Controls	Fanuc / Siemens	Fanuc / Siemens	Fanuc / Siemens
Positioning (for 300 mm)	0.010 mm	0.010 mm	0.010 mm
Repeatability	+/- 0.005 mm	+/- 0.005 mm	+/- 0.005 mm
Basic Machine weight (Kgs)	10000/12000/14500 16500/19000	10000/12000/14500 16500/19000	10500/12500/15000 17500/20000

The specifications are subject to change without notice.

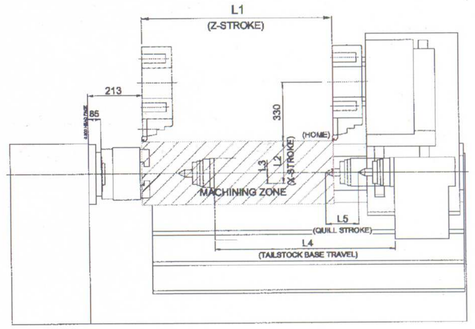
PRODUCT HIGHLIGHTS

- Single piece weldment base with headstock filled with composite material for better dynamic stiffness and dampening.
- Machine supported on three points ensures no precision leveling. Easy installation.
- Box type guideways are hardened and ground.
- Carriage & cross-slide guideways are surface coated with Epoxy to eliminate stick slip motion.
- Single piece cross slide casting provides high rigidity.
- Large diameter curvic coupling to ensure heavy clamping force and repeat index accuracy.
- Spindle supported on angular contact bearings ensures excellent part roundness and surface finish.
- Gearless spindle. No metal to metal contact. No vibration. No heat generation.
- Swing away tailstock is offered as option to permit end operations on the components without moving the tailstock away.
- Laser used for linear slide positioning accuracy and repeatability on each axis to enure high accuracy

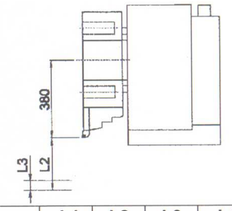
OPTIONS

- Hydraulic operated steady rest
- VDI disc in lieu of W&S turret.
- Tool touch probe.
- Rotary tools with C axis facility.
- Swing away, tailstock for WSU-12&15
- Hydraulic clamping tailstock.
- Auto door
- Bar Puller with filler tube kit
- Bar feeder.
- Parts catcher.
- Live Toolings
- 2 speed gearbox

WORKING CAPACITY - WSU -12 & WSU 15

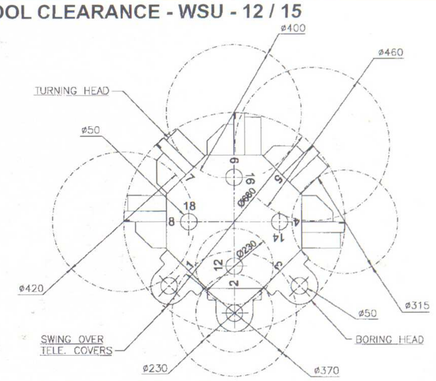


WORKING CAPACITY - WSU - 18

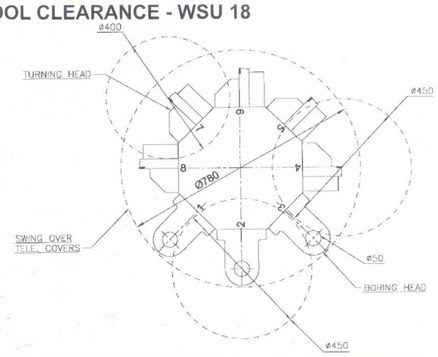


	L1	L2	L3	L4	L5
WSU-12 x 1 meter ABC	1081mm.	354mm.	154mm.	1077mm.	76/130/170mm.
WSU-12 x 1.5 meter ABC	1581mm.	354mm.	154mm.	1577mm.	76/130/170mm.
WSU-15 x 1 meter ABC	1081mm.	395mm.	195mm.	1077mm.	76/130/170mm.
WSU-15 x 1.5 meter ABC	1581mm.	395mm.	195mm.	1577mm.	76/130/170mm.
WSU-18 x 1 meter ABC	1081mm.	354mm.	104mm.	1077mm.	170mm.
WSU-18 x 1.5 meter ABC	1581mm.	354mm.	104mm.	1577mm.	170mm.

TOOL CLEARANCE - WSU - 12 / 15



TOOL CLEARANCE - WSU 18



MANUFACTURED BY:

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MMTL / B / 01-02/010107