



TRISHTHA™

INDUSTRIES

AN ISO 9001:2015 CERTIFIED

Expanding Horizons



PSR/5/5XL

CNC BAR-FEED LATHE

**PSR SERIES
SMALL SLANT BED CNC LATHE**

- True slant bed small CNC lathe
- Larger Bore Workholding
- Integral hardened and precision ground axes guideways / LM ways
- Precision slides with latest servomotor and absolute encoders
- Precision ball screws double nut-flange FF mounting pre-stretched
- Ergonomically designed machine enclosure
- Pneumatic power operated work holding system.
- Adjustable bar stopper upto 25-110 mm range
- Machine mounted control panel
- Latest Fanuc / Siemens control systems

Design ahead....

MACHINE SPECIFICATIONS :

PSR-A SERIES

Description	UNIT	PSR-A25	PSR-A36	PSR-A42	PSR-A60	PSR-A80	PSR-A100
Capacity:							
Std. collect chuck (DIN6343)	mm	25	36	42	60	80	110
Max turning Dia	mm	50	80	100	100	100	100
Swing over cross-slide/cover	mm	200/350		200/350		200/350	
Slant angle to horizontal	deg	35		35		35	

HEADSTOCK

Spindle nose	Type	Flat		Flat		Flat	
Hole through spindle	mm	27	38	44	62	82	112
Front bearing dia	mm	60	75	80	90	110	150
Spindle speed range	rpm	4000		3000		2000	
Spindle motor power-cont.	kw	2.2/3.7	2.2/3.7	3.7/5.5	3.7/5.5	5.5/7.5	5.5/7.5
Bearing type front/rear	-	ACBB/DRCRB		ACBB/DRCRB		ACBB/DRCRB	

X-AXIS & Z-AXIS

Axis stroke X/Z	mm	75/230		75/230		75/230	
Feed rate	mm/min	1-15000		1-15000		1-15000	
Rapid rate	mm/min	15000		15000		15000	
Ball screw dia & pitch	mm	25 x 10P		25 x 10P		25 x 10P	
Axis motor torques / power	Nm	3.5/0.75		3.5/0.75		3.5/0.75	
Guide way type / span	mm	LM guideways		LM guideways		LM guideways	
Min resolution	mm	0.001		0.001		0.001	

Turret

Turret type	Type	EM/Wedge		EM/Wedge		EM/Wedge	
Number of stations / Indexing time	sec	8 / 0.55		8 / 0.55		8 / 0.55	
Turning tool size Boring size	mm	20 x 20/φ32		20 x 20/φ32		20 x 20/φ32	

Coolant System

Motor Power	kw	0.37		0.37		0.37	
Pump cap \$ (pump end)	lpm	160 at 2M		160 at 2M		160 at 2M	

Pneumatic systems

Air supply required	bar	6+/-1		6+/-1		6+/-1	
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Lubrication System

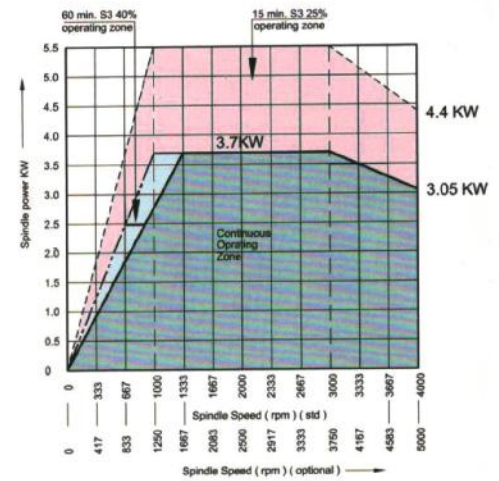
Lubrication unit model	-	ALU-03		ALU-03		ALU-03	
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Machine Dimensions and Weight

Length of m/c + AC unit	mm	2500+185		2500+185		2500+185	
Width with chip trolley	mm	1300		1300		1300	
Width with CC+ removal	mm	1880+650		1880+650		1880+650	
Weight of the m/c approx.	Kg	2000		2050		2010	

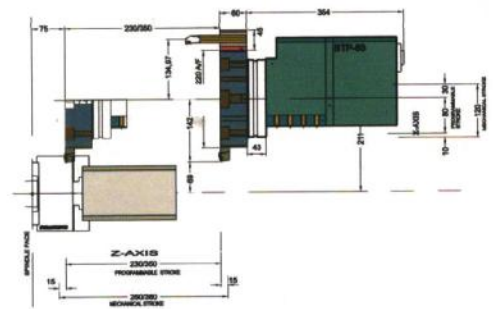
Others

Make of CNC system	-	Fanuc/Siemens		Fanuc/Siemens		Fanuc/Siemens	
Repeatability of X / Z Axis	mm	0.003		0.003		0.003	
Positioning of X / Z Axis	mm	0.008/300		0.008/300		0.008/300	
Machine testing ref std		DIN 8605		DIN 8605		DIN 8605	

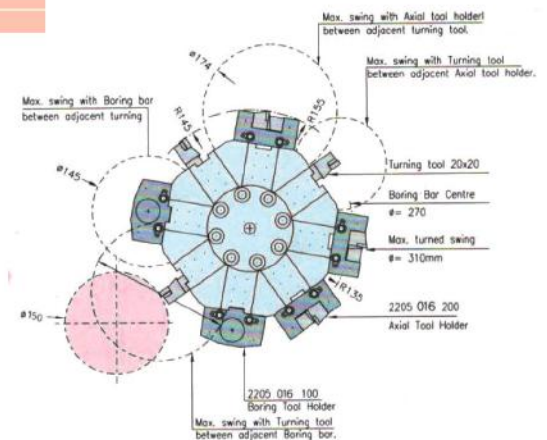


Spindle Speed Power Chart (Fanuc B3 - SP)

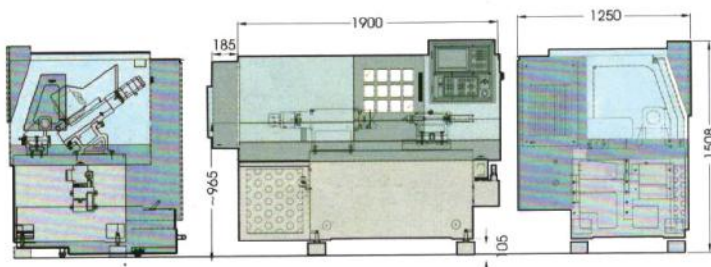
Capacity Diagram



Turret Interference Diagram



M/c Layout Diagram



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