

Machine Specifications

Name of Machine : CNC Lathe

Model No : LT-2 With HINUMERIK 2100T

Machine Maker : M/s ACE Designers (Month & Year of Commisioning :Apr 1997)

Sr	Machine Parameters	Units	Specifications
1	General M/c Capacity		
	Swing Over Table	mm	450
	Swing Over Carriage	mm	270
	Distance Between Centres	mm	400
	Max Machining Diameter	mm	240
	Max Longitudinal Tavel (Z)	mm	400
	Spindle Centre line above floor	mm	1000
2	Spindle		
	Spindle Nose		A2-6
	Spindle inside taper		MT-6
	Bore Thru Spindle	mm	Dia 56
	Spindle Speed	rpm	50 ~ 3500
	Front Bearing Bore	mm	Dia 90
	Tail stock Quill Dia	mm	Dia 75
	Tail stock Quill Taper		MT-4
	Tail stock Quill stroke	mm	100
	Tail stock Body stroke	mm	235
	Thrust (max Recommended)	kg/cm ²	660kg at 20kg/cm2
3	Feed System		
	Cross Slide Inclination	Degree	30 Degree
	No of station	nos	8
	Standard cutting tool	mm	25x25
	Hirth Type Copling Dia	mm	160
	Ball screw dia X- Axis	mm	dia 32 , pitch-5
	Ball screw dia Z- Axis	mm	dia 32 , pitch-5
	Feed motor X & Z Axis	nm	indramat - MAC90B 6.7 nm
	Spindle Motor (A.C. Motor)	mm	indramat - 2D-100D 7.5 kw
	Max power Requirement	kva	20
	Machine Size	mm	L=3495, W=2460 (With Chip Conveyor)
	Apprx wt.	kg	3000

4	Machine Specifications		
	CNC Unit		HINUMERIK 2100T
	Spindle Motor MFG/Type		Indramat/2AD100D
	Output	kw	7.5 kw, 1500/8000rpm
	Capacity	kva	10
	CNC	va	400
	Servo Motor	kva	3
	Electrical Control Unit	kva	1
	Hydraulic Unit Motor	kw	1.125
	Coolant Pump Motor	kw	0.18
	Lub Pump Motor	kw	0.12
	Indexing Motor	kw	0.4
	Cooling Unit	kw	1.5
	Chip Conveyor Motor	kw	0.18
	Totaol kva of Auxiliary Motors	kva	4.4
	Power factor 0.8	kva	1
	Step Down Transformer		Primery 415v, 50Hz, 230V, 50Hz
Total Capacity 1+2+3+4+5	kva	20	
5	Hinumerik 2100T Specifications		
	Input system		Metric / Inch
	Simultaneously Controllable Axis		two axis X & Z BOTH AUTOMATIC &MANUAL
	Interpolation		Linear and circular interpolation
	Programming		Absolute and incremental
	tape Code		ISO Or E1A AUTOMATIC RECOGNITION
	Minimum increment	mm	0.001
	Min Movement Command -X	mm	0.001
	Min Movement Command -Z	mm	0.001
	Max Programmable Dimension	mm	0.001
	Rapid feed rate-X	mm/min	max 24000 / 10000 on machine
	Rapid feed rate-Z	mm/min	max 24000 / 10000 on machine
	Feed rate-X	mm/min	max 15000 / 2000 on machine
	Feed rate-Z	mm/min	max 24000 / 10000 on machine
	Feed rate range / Revolution	mm/rev	0.001 to 50
	Feed rate range / Minute	mm/min	2000
	Feed rate override	%	0 - 120
	Rapid rate override	%	0 - 100
	Dwell		G04 (0.001 - 99,999,999 Seconds)
	Tool offset (32 Sets)		D1 - D32 (Max lth)
	Backlash Compensation - X	mm	0 - 0.255
	Backlash Compensation - Z	mm	0 - 0.255
	Part program storage & editing capacity	kb	16
	Memory expandable upto	kb	45