

»»»» **Orbitur+**
Compact Turning



The Right Choice for Job-shops as well MSME



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Orbitur-

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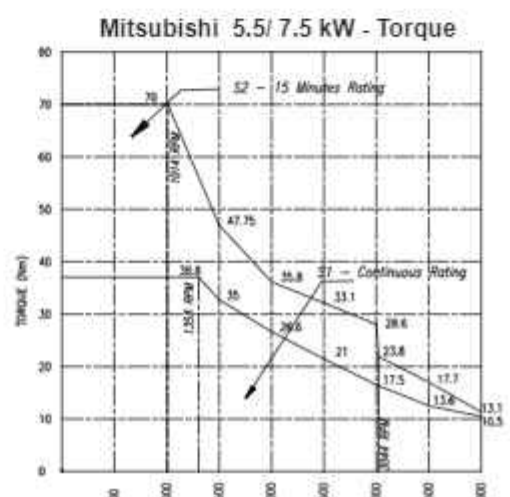
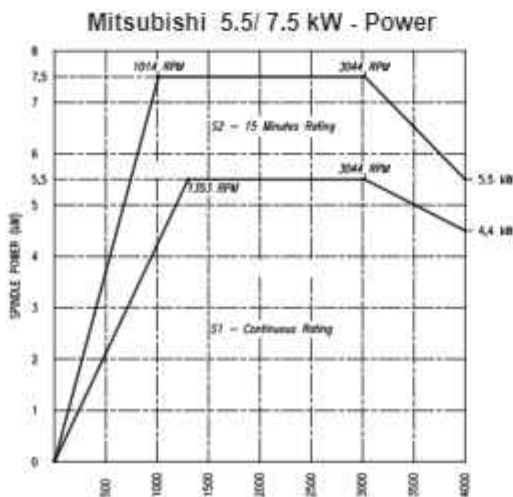
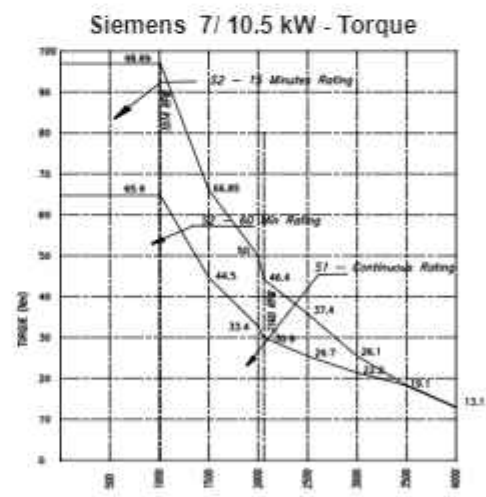
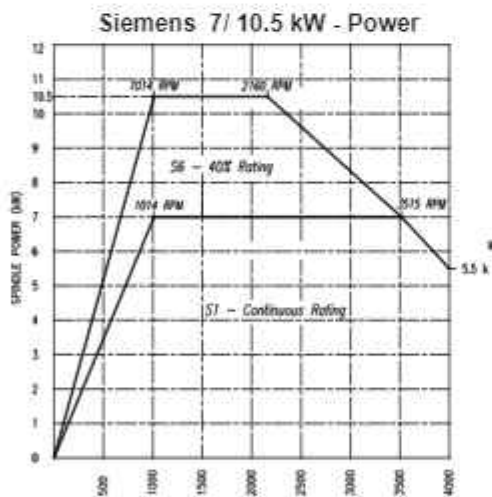
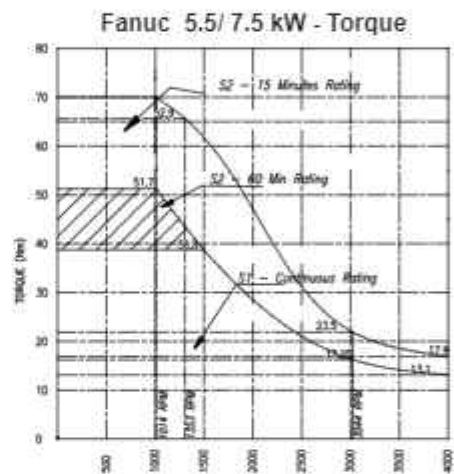
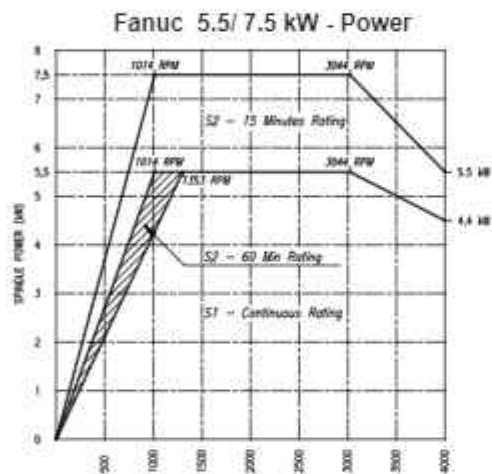
Compact Turning - Orbitur+

The HTL platform Orbitur+ machines are compact & more productive. Built with robust main bed, known for its better tolerance & provision of precision ball screws which results bench marking performance. Developed to meet the requirements of Job-shops as well mass production of thin-walled cylindrical and also solid cylindrical parts.

Best features:

- Compact foot print, Ideal for line setup
- High precision ball screws for X & Z axes
- Innovative design for tramp oil separation for lesser running cost
- Precision LM Guides for X & Z axes
- Enabled for Automation

Spindle Characteristics



Technical Specifications

Specifications	Unit	Orbitur +
Capacity:		
Swing over bed	mm	500
Swing over carriage	mm	270
Admit between center distance	mm	425
Standard turning diameter (Full length)*	mm	270
Max. turning diameter (Disc - 80mm length)*	mm	300
Interference free turning diameter (Tool collision dia with adjacent tool pocket)*	mm	228
Max. Turning length between Tailstock & Headstock center	mm	400
Max. Turning length from chuck hard jaw face to tailstock center*	mm	320
Work Holding & Tool Holding:		
Standard chuck size	mm	165
Bar capacity	mm	45
Turret indexing mechanism	type	Hydraulic
Turret center height	mm	80
Turning tool shank size (B x W)	mm	25 x 25
Number of tools	Nos	8
Boring tool holder size (Dia)	mm	40
Spindle:		
Spindle nose	type	A2-5
Spindle bore	mm	58
No of spindle bearing front/ rear	No's	3/2
Spindle bearing size front/ rear	mm	80/ 75
Spindle speed	rpm	4000
CNC System: Fanuc/ Siemens/ Mitsubishi		
Spindle motor power continuous/ intermittent rating	Kw	Fanuc 5.5/ 7.5 Mitsubishi 5.5/ 7.5 Siemens 7/ 10.5
Full power range	rpm	Fanuc 1333 - 3000 Mitsubishi 1333 - 3000 Siemens 1000 - 3333
Traverse:		
Cross slide movement (X axis)	mm	165 (+150/ -15)
Longitudinal movement (Z axis)	mm	400
Rapid traverse (X axis)	m/min	30
Rapid traverse (Z axis)	m/min	30
Cutting feed rate	m/min	0 - 10
Tailstock		
Quill diameter	mm	80
Quill traverse	mm	100
Base traverse	mm	240
Quill taper	type	MT-4
Quill thrust force - max @15 bar	kgf	300
Fluid System:		
Coolant tank capacity	ltr	100
Coolant pump capacity	lpm	160
Lubrication tank capacity	ltr	2.7
Hydraulic tank capacity	ltr	32
Hydraulic pump capacity	lpm	16
Hydraulic system pressure	bar	35
Accuracy As Per ISO 230-2:		
Positioning X / Z	mm	0.007
Repeatability X / Z	mm	0.005
Machine Installations:		
Machine dimension W x D x H ~	mm	2050 x 1400 x 1600
Total connected load	kVA	18
Machine weight	kg	~ 2700

Standard Features

- u Ball type LM guide-ways (Class H)
- u Precise ball screws (Class 3)
- u Automatic centralized lubrication system
- u AC servo drives
- u Coolant tank cum chip tray
- u Hydraulic power pack
- u Belt-driven spindle
- u Absolute encoder
- u 10.4 colour display - Fanuc Oi TF/ Siemens
- u 8.4 color display - Mitsubishi
- u Rigid tapping
- u Linear, circular interpolation
- u 8-station hydraulic turret
- u Operator door
- u Tri-colour lamp
- u Machine alarm diagnostics
- u Energy saving functions
- u 3-jaw self centering chuck
- u Solid rotary cylinder
- u Tail-stock with programmable quill
- u AC for electrical cabinet
- u Mechanical tool kit
- u Machine lamp
- u Tool display
- u Leveling pads

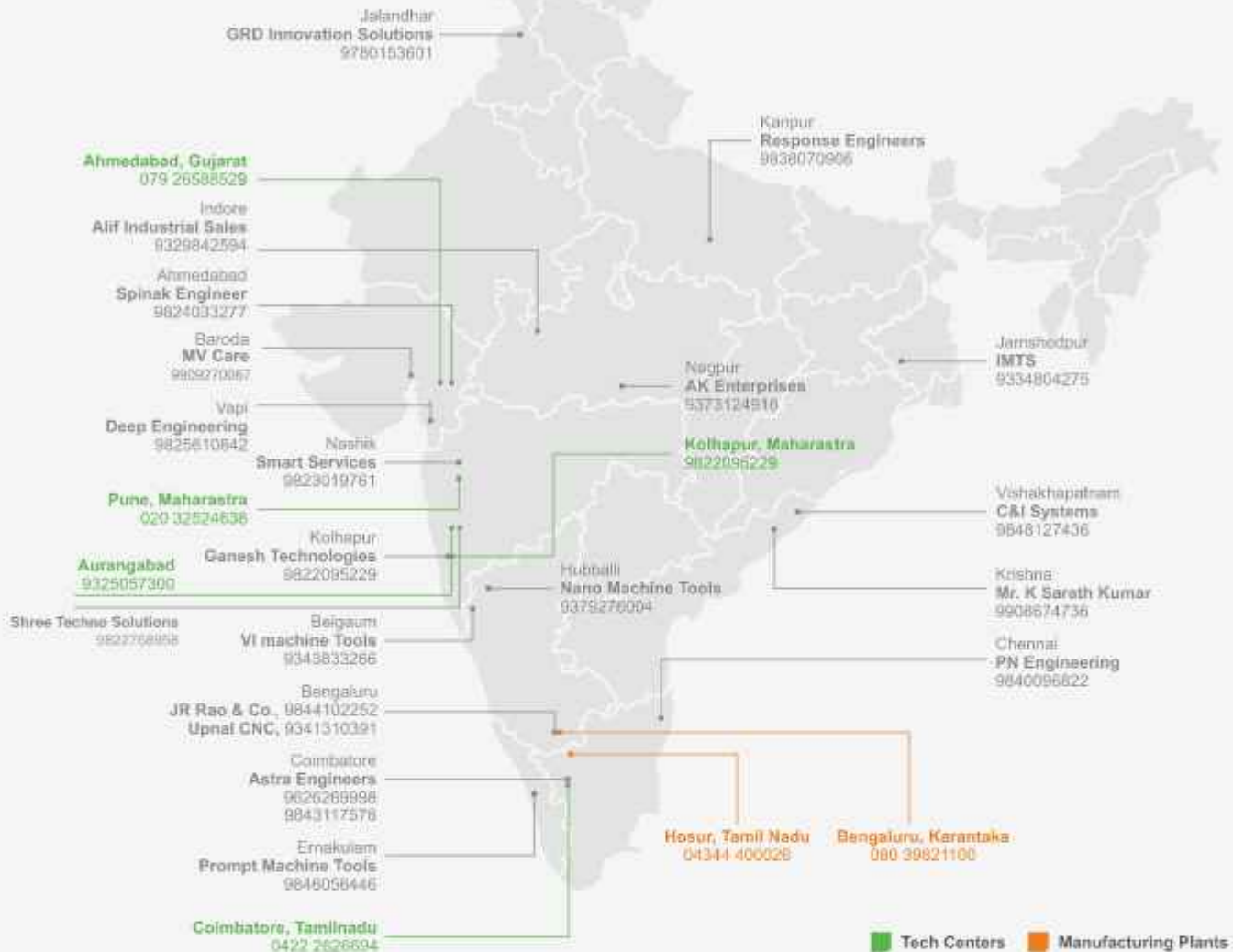
Optional Features

- u Chip conveyor
- u 12-station hydraulic turret
- u 2 & 4 jaw self-centering chuck
- u Collet chuck
- u Auto door
- u Bar feeder system
- u Part catcher
- u Tool touch probe
- u work probe
- u Hollow cylinder
- u Gantry / Robotics automation
- u Tooling up solutions
- u Industry 4.0 integrated system IRIS

Applications



Network



International Network

- Bangladesh • Bahrain • China • France • Germany • Iran • Kuwait • Netherlands • Oman • Poland
- Qatar • Russia • Saudi Arabia • Sri Lanka • South Africa • Thailand • Turkey • UAE



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