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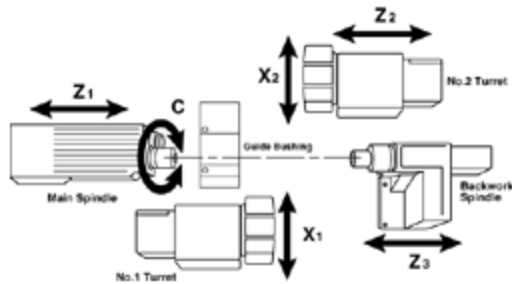
Facilities List



Features

Synchronous/Superimposed Operation

Whirling Attachment



SPECIFICATIONS	unit	E32*
Max. part diameter	in.	1.25
Max. part length/chucking	in.	12.6
Spindle motor	hp	7.5
Max. spindle speed	rpm	6,000
Back spindle speed	rpm	5,000
No. mountable tools		10+10**
Controller		Cincom System III

*Model E32 IV includes a Y-axis in the upper turret

**More with 1/2 indexing

CNC Vertical Machining Centers

- Matsuura MC-600VF (2 units)
- Matsuura MC-500
- Matsuura MC-510VG

CNC Turning Centers

- Nakamura TW-20, 20 HP 6-Axis Twin-Spindle, Twin-Turret
- Emco Maier EmcoTurn 325, 5 HP 2-Axis

CNC Swiss Automatic Screw Machines

- Citizen E32 Type IV with Y-Axis
- Citizen L16 Type 1

Wire EDM

- Fanuc Robocut @-OA

Grinding

- CNC Okamoto Universal Cylindrical Grinder (Fanuc 21)
- Studer Universal Cylindrical Grinding Machine
- Okamoto ACC-618DX Surface Grinder
- Brown & Sharp Tool Grinding Machine
- Kawaragi Tool Grinding Machine
- Nippei Centerless Grinder
- Ex-cell-o Center Grinder



Secondary Operation Equipment

- Hardinge HLVH Lathe
- Hardinge HSL Lathe
- Hardinge HSL-59 Lathe
- Sunnen Honing Machine
- Haberle Cold Circular Saw
- DoALL Vertical Band Saw
- Graymill Ultrasonic Cleaning System
- Graymill High Pressure Water Jet Cleaning System
- Sweco Finishing Mill



Quality Control

- Nikon Optical Comparator
- Deltronic DH-216 Optical Comparator
- Vision Engineering Macro Dynascope
- Brown & Sharp Micro-Height 24"
- Heerbrugg Micro-Scope
- Wilson Hardness Tester 3JR
- Deltronic 0.015-1.012 Pin Set
- Nikon SMZ-1 Microscopes