



Toyoda 450III

The Latest in Machining Technology

555 Dawson Drive • Camarillo, CA 93012

Phone (805) 482-6913 • Fax (805) 482-7422

A DIVISION OF THIESSEN PRODUCTS, INC.



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CNC MILLS

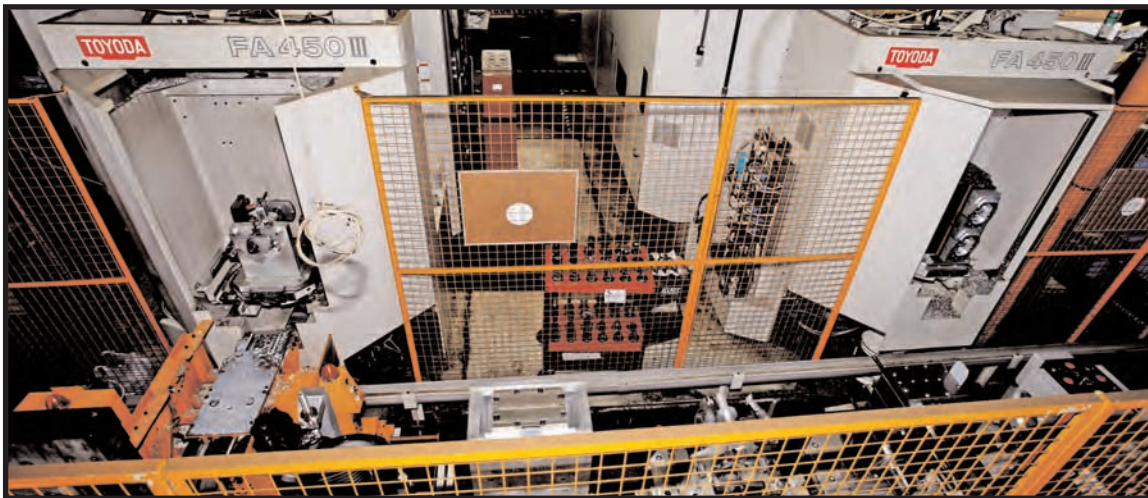
- Toyoda 450III 40Taper Horizontal W/120 Tools – Model No. 450III
 - Toyoda 450III 40Taper Horizontal W/120 Tools – Model No. 450III
 - Toyoda 450III 40 Taper Horizontal W/200 Tools – Model No. 450III
R.G.V. 20 Pallet Shuttle System 14,000rpm Spindles Full 4th Axis
XYZ Travel (29"X29"X29") Spindle Probe
- } **NEW**
- Niigata 50 Taper Horizontal Mill – Full 4th Axis - Model No. SPN63
Jorgensen Chip Conveyer 14,000rpm Direct Drive Spindle
4th Axis with 60 Tools
XYZ Travel 39"X34"X31"
- } **NEW**
- Mori Seiki 50 Taper Vertical Mill 6,000rpm Spindle
Midaco Pallet Changer 30 Tools
Model No. MV55/50
Rotary Table
XYZ Travel 40"X20"X 20"
- } **NEW**
- Mori Seiki 40Taper Vertical Mill with 2 Pallet Shuttle System
Model No. Frontier-MII/40
XYZ Travel 40"X 20"X 20"
- Hitachi Seiki CNC Horizontal Mill – Model No. HG400III
Cat 40 Spindle Speed 60 - 12,000rpm
30 Tool Storage Full 4th axis
Travel X-axis 22"
Y-axis 23"
Z-axis 20"
Table Center to Spindle Nose 25"
- (3) Hitachi Seiki CNC Horizontal Mill – Model No. HG400III
Cat 40 Spindle Speed 60 - 12,000rpm
30 Tool Storage
Travel X-axis 22"
Y-axis 23"
Z-axis 20"
Table Center To Spindle Nose 25"
- Quantum CNC Mill – Model No. Q-1000V
Turbo 50 Tapper Vertical 6,000rpm Spindle
30 Tool Storage
XYZ Travel 40"X 20"X 20"
- (2) HAAS VF-2 Vertical Mill
Travel X-Axis 30"
Y-Axis 15"
Z-Axis 20"
- Dual HAAS Indexers



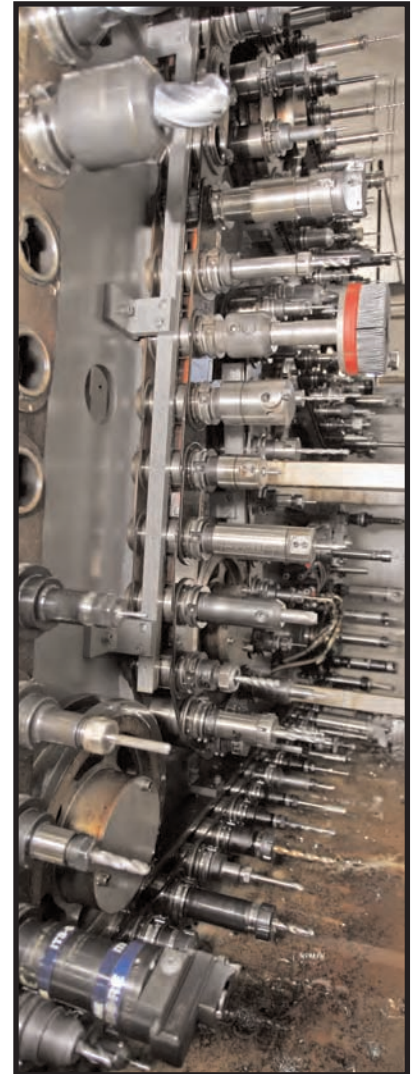
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Toyota 450III 40Taper Horizontal W/120 Tools



Toyota 450III 40Taper Horizontal W/200 Tools



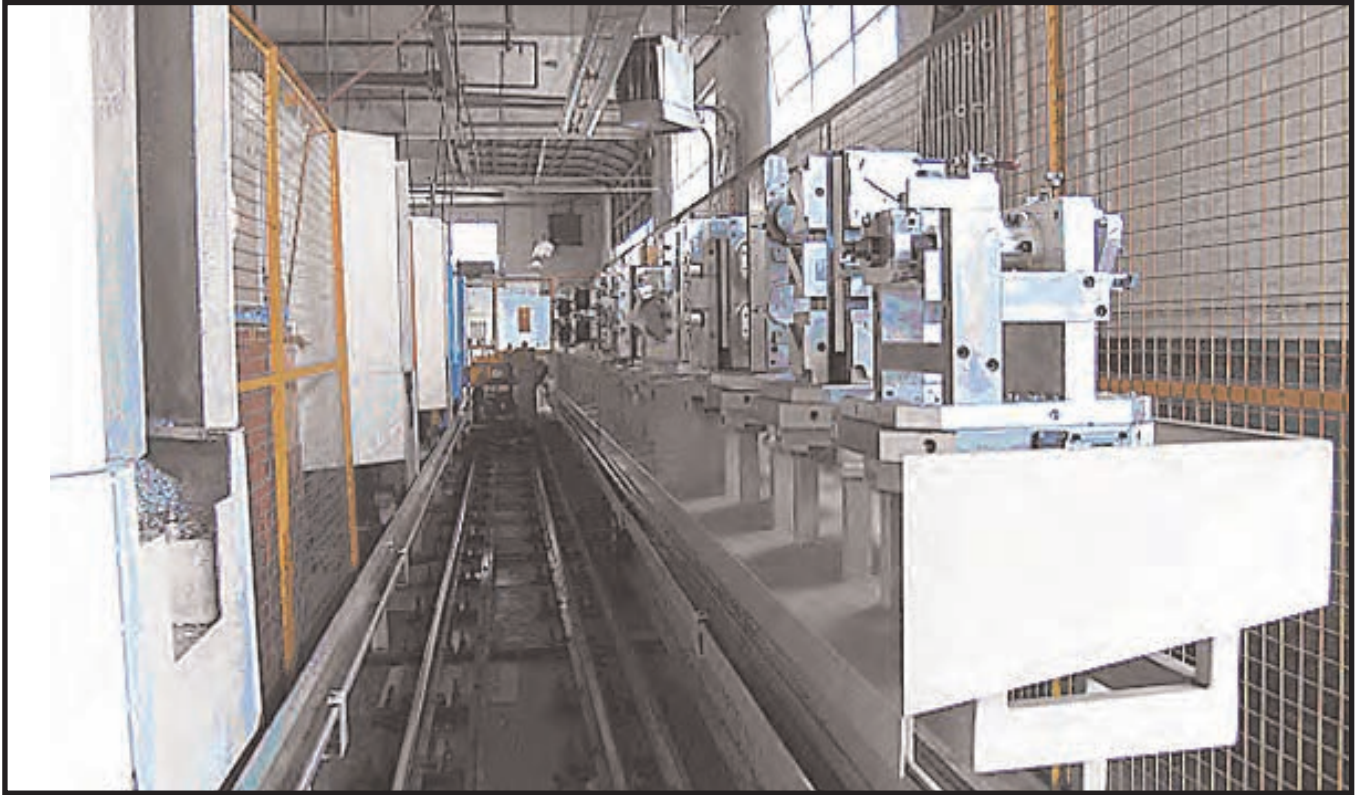
Toyota 450III 40Taper Horizontal W/200 Tools



Toyota 450III 40Taper Horizontal W/200 Tools



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Toyota 450III 40Taper Horizontal W/200 Tool Tools



Mori Seiki 50 Taper Vertical Mill 6,000rpm Spindle



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Niigata 50 Taper Horizontal Mill – Full 4th Axis - Model No. SPN63



Hitachi Seiki CNC Horizontal Mill – Model No. HG400III



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CNC MILLS

(Continued)

- Fanuc CNC Drillmate Precision Drilling/Tapping
X-Axis travel 500mm/19.6"
Y-Axis Travel 380mm/14.9"
Z-Axis Travel 330mm/12.9"
Table 650mm X 380mm
Yuasa Drill Mate Rotary Table

CNC LATHES

- Nakamura Twin Spindle With Milling CNC Lathe TW-150 } **NEW**
Turbo systems chip conveyor
Quickload Barfeed
- Nakamura Twin Spindle CNC Lathe TW-10 } **NEW**
With Milling and Gantry Parts Loader
Turbo systems chip conveyor
- Mori Seiki CNC Lathe 21T – Model No. CL20A
Fanuc MSC 521 conveyer
Auto Bar 400 Barfeeder 1 3/4" Cap 6" Chuck
- Hitachi Seiki CNC High Tech Turn – Model No. HT20SIII
Turbo Conveyer
Yasnac
Cool Jet High Pressure Coolant
Auto Bar 400 Barfeeder 2" Cap – Model No. 8" Chuck
- Hitachi Seiki CNC High Tech Turn W/Tailstock – Model No. HT23J
Auto Bar 400 Barfeeder 2 1/2"Cap
2 5/8" With Bar Pull 8" Chuck
- Hitachi Seiki CNC Lathe – Model No. HT 23SIII
LNS Quickload Barfeeder 2 1/2" cap
Through Spindle Cap
2 3/4" W/Bar puller
10" Chuck
- Hitachi Seiki CNC Lathe – Model No. HT20SIII
LNS Quickload Barfeeder 2 1/2" cap 10" Chuck
- 3 Hyundai 8 CNC Lathe – Model No. HIT8F
6" Chuck
Auto bar Barfeed
6" Chuck
- Hyundai HIT30F W/ 12" Chuck



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Nakamura Twin Spindle CNC Lathe TW-10 With Milling and Gantry Parts Loader



Nakamura Twin Spindle With Milling CNC Lathe TW-150



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CNC LATHES

(Continued)

- Hyundai 15 CNC Lathe – Model No. HIT15F
6" Chuck
- (2) Hyundai 8 CNC
Model No. HIT8F
- (2) Mori Seiki – Model No. SL-3A
- Mori Seiki Lathe – Model No. SL-2B
- Mori Seiki Lathe – Model No. SL-1A
- Mori Seiki 1 1/32" Capacity – Model No. SL-0

CNC GEAR HOB

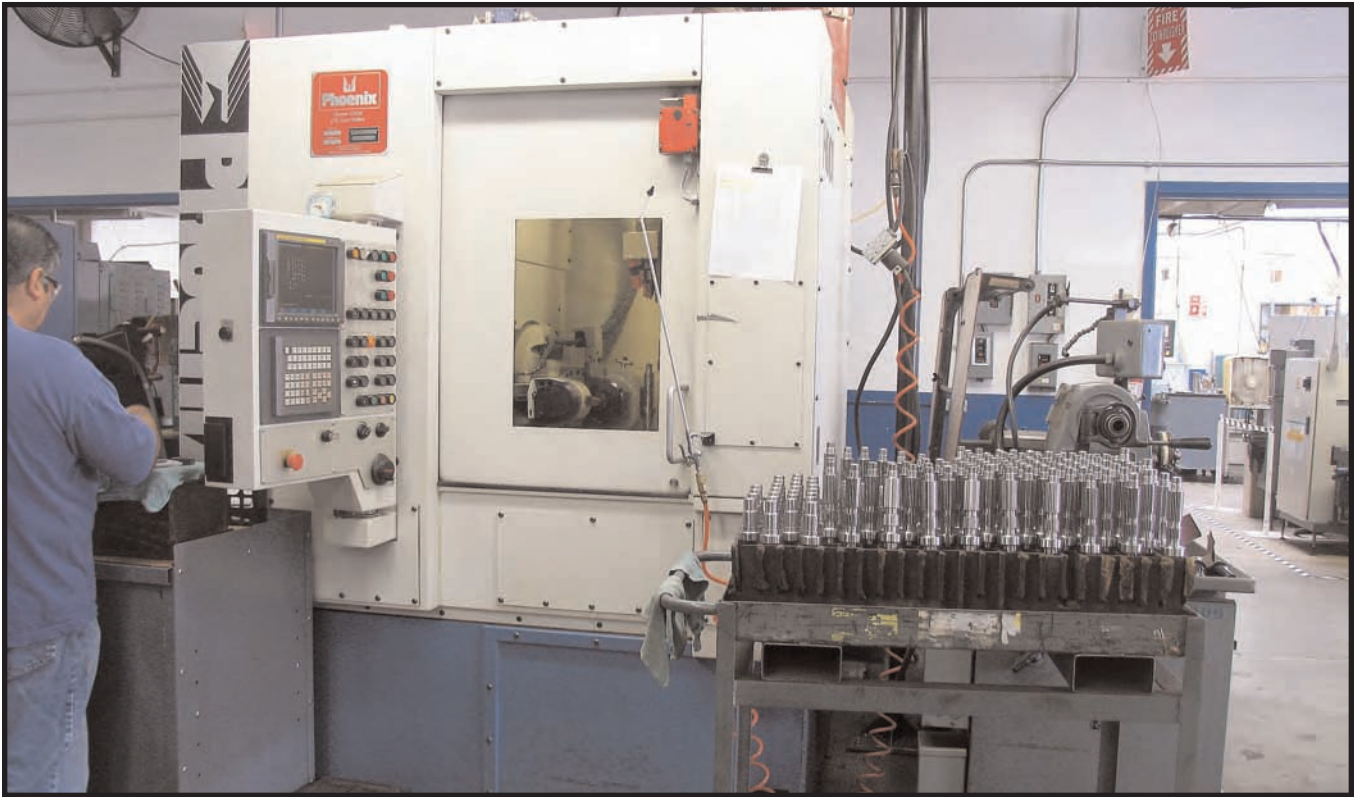
- Gleason 125GH CNC Gear Hobb } **NEW**
Model No. 125GH

CNC GRIND

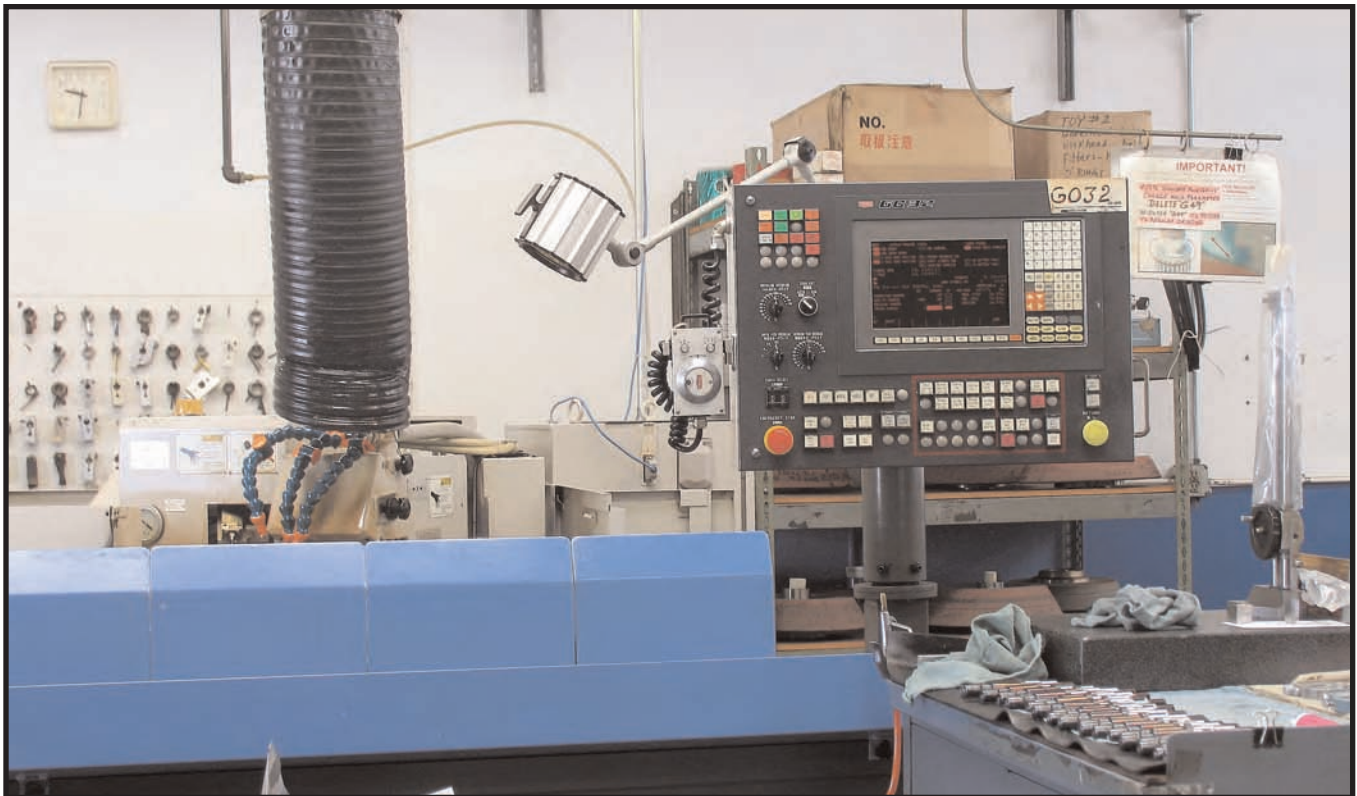
- Mitsubishi CNC Angle Head grinder Capacity 12" swing
19" between centers
- Toyota CNC grinder Capacity 1000mm/39.4" between centers
300mm/11.8 max diameter
Model No. GL4P-100E
- Toyota CNC Angle Head Grinder Capacity 1000mm/39.4" between centers
300mm/11.8 max diameter
Model No. GL4A-100EII
- Toyota CNC Grinder Capacity 500mm/19.5" between centers
300mm/11.8 max diameter
Model No. GE4P-50
- Toyota CNC Grinder Capacity 500mm/19.5" between centers
300mm/11.8 max diameter
Model No. GL4P-50II



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Gleason 125GH CNC Gear Hobb



Toyoda CNC Angle Head Grinder Capacity 1000mm/39.4" between centers



CNC SUPPORT EQUIPMENT

- 5 work stations for programming support.
- Master Cam Cad System
- Advance computer systems
 - MAS 90
 - Vista by Epicor – (scheduling)
 - Calibration Software – Advanced gage control

INSPECTION ROOM

- Mitutoyo CMM Crysta-Apex 910
 - Fully Automatic and Programmable
 - Table Size 1080X1720mm (45.52"X67.72")
 - Range X-905mm (35.63")
 - Y-1005mm (39.57")
 - Z-605mm (23.82")
 - Renishaw Touch Trigger Prob
 - Inspection Report Capability
- Brown and Sharp CMM MicroVal 454
 - Table Size 22"W X 30"L
 - Range X-457mm (18")
 - Y-508mm (20")
 - Z-406mm (16")
 - PC Demis Quick Programming Software
 - Reverse Engineering Capability
 - Renishaw Touch Trigger Prob
 - Inspection Report Capability
- Ilitron Gear Inspection
- Optical Comparator
- (6) Surface Plates 36" x 48"
- (7) Surface Plates 24" x 36"
- Misc. Thread gages / Ring gages
- 1st Article certification
- Advanced Gage Control Calibration Software
- Quality Control Manual
- Procedures Manual



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Mitutoyo CMM Crysta-Apex 910



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R&D FACILITY

- Fadal 4020 Fadal w/ Rotary Table
- Fadal 4020 Fadal w/ Rotary Table
- (2) BridgePort Mill w/Digital Readout
- Nardini Lathe with Digipac Digital Readout
- Hwacheon Lathe w/ Sony Digital Readout
- Kent Surface Grinder 10" x 20"
- Kondia Vertical Mill

TESTING:

- Dyno Room
- Super Flow Dyno Tester
- BridgePort Mill w/ Anilam Mini wizard Digital Readout

MANUAL GRIND

- Cinco 15 Centerless Grinder Max diameter 4 3/4"
- (2)Tshudin HTG-310 Precision Automatic Grinder 3 3/4" max diameter 13" between centers
- (2) Ex-Cell-O Center Lap
- (2) Taylor Winfield Ther-Monic Induction Heating

MANUAL GEAR HOBB

- Barber Colman Automatic Gear Hobb 16" Max Diameter X 20" L
- Barber Colman Automatic Gear Hobb

SHOP SUPPORT EQUIPMENT

- Hardinge Chucker
- Hardinge Chucker Model H.C.
- Hardinge with Bradmatic
- Hardinge Speed Lathe
- Ramco-Feeler Gauge



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GUN DRILL

- Dehoff Twin Spindle Gundrill
Capacity 1/2"Dia X 12" Stroke

HONE

- Rottler Automatic Power Stroke Honing Machine 1.5" x 7.0" diameter – Model No. HP6A
- Sunnen Automatic Power Stroke Hone
- (5)Sunnen Hone Model MBB1660

SAWS

- Amada Automatic Cutoff Saw Capacity 10" Dia max
Model No. HA250
- Daito Automatic Cutoff Saw Capacity 13" Dia max
Model No. SA360

BURR DEPARTMENT

- (1) Almco Gear Deburring
- (3) Sweco Vibratory Burr Machines
- (3) Automated Finishing Burr Machines
- Dremel Utility Tools
- (3) Drill Press
- (1) 10-Ton Press
- (2) Belt Sanders
- Powermatic BandSaw

WELDING

- MillerMatic 200 Wire Feed Welder
- Miller Dialarch HF Heli Arc Welder

FACILITY SUPPORT EQUIPMENT

- (3) Forklifts
- (2) Delivery Trucks