



5-Axis CNC Machining Centers - X-axis up to 25.6", Y-axis up to 30.1", Z-axis up to 20.5", A-axis up to Plus/Minis 120 degrees, B-axis 360 degrees, Tolerance = .0001"

- 1 Doosan DVF-5000 w/8 station pallet pool (w/probing)
- 1 Doosan VC 630-5AX (w/probing)
- 1 HAAS VF 5 Vertical w/5-axis trunnion
- 2 Brothers TC-22A w/Yukiwa TRT1401 - 5-axis trunnion table

CNC Horizontal Machining Centers - X-axis up to 28.7", Y-axis up to 28.7", Z-axis up to 34.6"

- 2 DMG Mori NHX5000 - 2 pallets
- 1 OKK HM 40 - 2 pallets w/26" Kurt Vise Tombstone

CNC Vertical Machining Centers - X-axis up to 50", Y-axis up to 26", Z-axis up to 25"

- 3 Leadwell MV-50i
- 1 OKK VM 5
- 1 Okuma & Howa Millac 40V
- 1 Okuma & Howa 4VA
- 1 Bridgeport Knee Mill W/Trak A.G.E.2
- 3 Brothers TC-S2B-O
- 3 Brothers TC-22A
- 2 Brothers TC-S2A
- 1 Brothers TC-22A-O
- 1 Brothers TC-31A (pallet)
- 1 Brothers TC-32A (pallet)
- 1 Brothers TC-S2Dn-O - High Torque

Rotary and Indexing Heads

- 6 Hardinge 16c 4th-axis heads w/pneumatic tailstocks
- 2 Yukiwa TRT1401 5-Axis trunnion table
- 1 Tsudakoma 4th-axis rotary table
- 3 Nikken 4th-axis rotary heads
- 6 HAAS 5C indexing heads



Witco Inc.

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Innovative Machining Solutions

CNC Turning Centers - Up to 23.62" diameter x 80" length. Barfeed up to 3.180" diameter.

- 1 Okuma LU 3000 EX w/LNS QLS 80-S2 w/tailstock
- 1 Doosan Lynx 220A w/LNS QLS 80-S2 w/tailstock
- 1 Samsung SL 35 (2-Axis) w/tailstock
- 1 Leadwell LTC35 w/steady rest & tailstock
- 1 Leadwell LTC25 (Big Bore) w/steady rest & tailstock
- 1 Samsung SL 25 ASY mill/turn w/sub spindle
- 1 Samsung 6TL w/tailstock
- 1 Okuma HL-35 (Big Bore) w/tailstock
- 1 Okuma LU-15 (4-Axis Big Bore) w/tailstock
- 2 Okuma & Howa ACT 35 (Big Bore) w/tailstock
- 1 Okuma & Howa ACT 4 w/tailstock
- 1 Okuma LU-15 (4-Axis)
- 2 Okuma & Howa ACT 20 w/tailstocks
- 1 Okuma & Howa Act 3 w/tailstock

Gear Cutting

- 1 Fellows 10-4 CNC shaper
- 1 Fellows 7A shaper
- 1 Barber-Coleman 16-36 hob
- 2 Barber-Coleman 6-10 hob
- 1 Modul ZFW hob
- 1 Red Ring GCU-2535 shaver

Manual Lathes

- 1 Clausing Colchester
- 1 Hardinge HNC Chucker
- 2 J&L No. 5 turret engine lathes
- 6 Hardinge DSM-59 turret lathes

Manual Mills

- 3 Bridgeport Knee Mills W/Readouts

Grinders and Hones

- 1 Yam O.D. grinder
- 2 Kwik-Way O.D. grinders
- 1 Sunnen CV-616 Cylinder King vertical hone
- 1 Sunnen MBB-1600 horizontal hone
- 1 Sunnen MBB-1660 horizontal hone
- 3 Boyer Schultz surface grinder
- 1 Chevalier II - surface grinder

Computer Support

- Over 40 PC Computers
 - Plant wide ERP/MRP
 - Witco Shop (Custom QMS)
- 2 Gibbs CAM seats - 5-axis and MTM modules
 - 5 Solid Edge 3-D Solid Modeling CAD seats



Secondary and Assembly Equipment

- 2 Technomark Multi-4 dot peen marking systems
- 1 Pemsenter series Lt/4 press
- 2 Nova 1003 bowl vibratory deburrer
- 3 Ultramatic box vibratory (Porta Burr)
- 3 Helicoil installation station
- 1 Wells band saw (horizontal)
- 1 Roll-In band saw (vertical)
- 1 Daito band saw (horizontal)
- 2 Trin-Mac Sandblasters
- 1 Central Pneumatic sandblaster
- 1 Fishman adhesive dispensing system
- 1 Blue M curing furnace
- 1 Reliable buffing machine
- 1 Darex CNC drill point sharpener
- 1 Black Diamond drill grinder



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