

Equipment List- Cincinnati, OH

CNC MILLING

CNC Horizontal Milling Centers

- (2) Haas EC-400PP: 6 Tombstone Pallet Changer, 4 Axis, 70 Tool, Renishaw Probing (2008 & 2011)
- (1) Mori Seiki SH-403: 2 Tombstone Pallet Changer, 4 Axis, 40 Tool (2002)

CNC Vertical Milling Centers

- (1) Haas VF-6/50: Cat 50, 4 Axis, 30 Tool, wireless Renishaw Probing (2011)
- (1) Haas VF-5/50: Cat 50, 4 Axis, 30 Tool, wireless Renishaw Probing (2008)
- (1) Haas VF-5SS: Cat 40, 5 Axis Trunnion, 24 Tool, wireless Renishaw Probing (2010)
- (2) Haas VF-4SS: 4 Axis, 24 Tool, 1400 IPM Rapids (2006)
- (1) Haas VF-3SS: 3 Axis, 24 Tool, 1400 IPM Rapids (2004)
- (2) Haas VF-2SS: 4 Axis, 24 Tool, 1400 IPM Rapids, Renishaw Probing (2006)
- (1) Haas DT-1: 3 Axis, 20 Tool, Pallet Changer, Wireless Renishaw Probing (2011)
- (2) Haas GR-510: Gantry Mill, 4 Axis, 60"x120" Travel, Renishaw Probing ('08 & '09)
- (2) Haas MDC-500: 3 Axis, 24 Tool, Pallet Changer ('05 & '09)
- (2) Haas TM-2: 3 Axis, Tool Room Mills (2006)
- (1) Mori Seiki GV-503: Pallet Changer, 3 Axis, 30 Tool (2001)
- (1) Fadal VMC8030: 3 Axis, 24 Tool, 80" x 30" x 30" Travel (2005)
- (2) ProtoTRAK CNC Mills: 3 axis, K3, K4, B3 models

CNC ROUTERS

- (2) Anderson America Exxact Plus Series Routers: 63" x 145" Travel, 3,150 IPM ('03 & '06)

CNC TURNING

CNC Mill-Turn Multitasking Center

- (1) Mazak Quick Turn Nexus 350II-MY: 4 Axis, Live Tooling, 60" of travel for long parts (2011)
- (1) Mazak Quick Turn Nexus 250M: 3 Axis, Live Tooling (2006)
- (1) Mazak Integrex 200Y: 5 Axis, mill and turning up to 20" diameters (2002)

CNC Swiss Style Turning Center

- (1) Ganesh Cyclone CS-32: 7 Axis, dual spindle, live tooling, 12' Bar Feeder (2009)

CNC Turning Centers

- (1) Mazak Quick Turn Nexus 200: 2 Axis, Bar Feeder (2006)
- (1) Mazak Super Quick Turn 18N: 2 Axis (1998)
- (1) Hardinge Cobra 42: 2 Axis, 12' Bar Feeder
- (1) Ameri Seike TC-2L: 2 Axis

CNC BUS BAR PUNCHING/BENDING

- (1) Boschert CU PROFI – Punches up to ½” x 8” copper bar 144” long (2010)
- (1) Stierli-Bieger 300 CNC/WP Bending-Center (2011)
- (1) Whitney 1524 CNC FAB - Punches up to ½” copper bar (2000)

CNC WATERJET CUTTING

- (1) Flow M3-4020b: 4 Axis, 162” x 78” travel, 90K psi Hyperjet Intensifier pump (2009)
- (1) Calypso Hammer Head II: 2 Axis, Dual Head, 60” x 120” Bed (2004)

CNC LASER CUTTING

- (1) Mazak Super Turbo – X510 Mark II: 60” X 120”, Auto Load/Unload (2007)
- (2) Mazak Super Turbo – X48: 48” x 96”, FMS, Auto Load/Unload Tower (2010)

CNC TURRET PUNCHING

- (1) Murata Magnum 5000: 60” x 120” Table, 10 mm Max Sheet Thickness (2011)
- (1) Muratec Motorum 2048LT: 49” x 96” Table, 22 Ton, 54 Station (2007)
- (2) Muratec Motorum 2044EZ: 49” x 49” Table, 22 Ton, 18 Station (2000 & 2007)
- (1) Wiedemann Centrum 3000: 49” x 49” Table, 33 Ton, 40 Station (2000)
- (1) Wiedemann Centrum 1000: 40.5” x 50” Table, 16 Ton, 20 Station

CNC PRESS BRAKES

- (1) Accurpress Edge 425012: 5 Axis, 250 Ton, 120” Bed (2011)
- (1) Accurpress Accel 515010: 5 Axis, 150 Ton, 120” Bed (2007)
- (1) Accurpress Edge 417510: 5 Axis, 150 Ton, 120” Bed (2010)
- (2) Accurpress 717512: 5 Axis, 175 Ton, 144” Bed ('99 & '00)
- (1) Accurpress 7606: 5 Axis, 60 Ton, 72” Bed ('05 & '07)
- (2) Premier 425.2: 2 Axis, 25 Ton, 48” Bed ('96, '97, & '05)
- (1) Baykal APH 1254x40: 44 Ton, 48” Bed (2011)

SHEAR

- (1) CNC Accushear 625010: Shear up to ¼” thick, 120” Bed, Front & Back gauge (2007)

WELDING

MIG Welders

- (1) Lincoln Electric Power Mig 350MP
- (1) Lincoln Electric CV300
- (2) Miller Millermatic 300
- (1) Hobart 17 Fabricator

TIG Welders

- (1) Lincoln Electric Precision TIG 375
- (1) Lincoln Electric Precision TIG 275
- (1) Miller Syncrowave 250DX

Spot Welder

- (1) Chowel ASR-150KVA
- (1) Banner 30KVA

Robotic Welding

- (1) Motoman Arc World II HD: UP6 Manipulator, XRC Control

STAMPING

Presses

- (1) Minster E2-400: 400 Ton, 48" x 96" Bed, 80 SPM, 34" Shut Height, Refurbished (2008)
- (1) Heim S2-400: 400 Ton, 48" x 120" Bed, 32 SPM, 16" Shut Height, Refurbished (2006)
- (1) Stamtec GTX-300S: 300 Ton, 48" x 96" Bed, 35 SPM, 21.65" Shut Height (2009)
- (1) Sang Yong CS-150: 150 Ton, 23" x 30", 40 SPM, 22.44 Shut Height (1998)
- (1) Stamtec G1-80: 88 Ton, 22" x 39" Bed, 80 SPM, 13" Shut Height (1998)
- (1) Stamtec G1-45S: 45 Ton, 17.5" x 33.5" Bed, 100 SPM, 12.45" Shut Height (1997)
- (1) Bliss: 60 Ton, 21" x 32", 60 SPM, 16.5" Shut Height
- (1) Minster 4: 32 Ton, 16" x 24", 220 SPM, 12.5 Shut Height

Feed Lines

- (1) Coe 24" Servo Feed Series: CPRF-S324, CPR-PO-08024, CPPS-350-24 (2008)
- (1) Stamtec by Tomac TLF3-800 Series: 31.5" Wide Material Capacity (2009)
- (1) Coe 9890-1 Series: Model # CPCC-4012 Coil Cradle, Straightener, and Feeder
- (1) CoilMate: ServoMatic Feeder Model # SM IV 12
- (1) Littell # 308 Series: Coil Cradle and Straightener

SAWS

Cold Saws

- (1) Kaltenbach SKL 45ONA: Automatic Circular Cold Saw for non-ferrous metals (2000)
- (1) Kaltenbach SKL 40ONA: Automatic Circular Cold Saw for non-ferrous metals (2000)

Horizontal Band Saws

- (1) HYD-MECH: H-10A, Capable of cutting metal as large as 10" x 10" (2000)
- (1) Cosen: MH-1016JA, Capable of cutting metal as large as 9" x 14.5" (2007)

Panel Saws

- (1) Gabbiani Galaxy 125: Cut composite material up to 4.92" thick and 126" x 126" (2006)
- (1) Halzma HPP11/38: Cut composite material up to 4.92" thick and 150" x 150" (1999)

TOOL & DIE

- (1) Fanuc Alpha-1iA Wire EDM: Max Part Size 33" x 27" x 12", Cut parts as heavy as 2200 lbs (00')
- (1) Fanuc Alpha-1B Wire EDM: Max Part Size 29" x 25" x 11", Cut parts as heavy as 1400 lbs (1996)
- (1) Fanuc Alpha-1C Wire EDM: Max Part Size 33" x 27" x 11", Cut parts as heavy as 2200 lbs (1998)
- (3) Protrak CNC Mills
- (1) ProtoTRAK FHM 7: Bed Mill, 3 Axis (2007)
- (4) Chevalier Surface Grinders
- (2) Radial Drills

INSPECTION EQUIPMENT

- (1) FARO Gage: 48" Gauging Arm (2011)
- (1) Mitutoyo B231 CMM: Measures parts as large as 24" x 36" x 12" to .00005" (1999)
- (2) Virtek Laser QC: Laser Scanning Measures parts as large as 48" x 48" (2000 & 2010)
- (1) Mitutoyo PH361: 14" Optical Comparator Profile Projector

RAPID PROTOTYPE MACHINE

- (1) Dimension uPrint Personal 3D Printer: ABS Modeling Material, 6" x 6" x 8" Build Envelop, Making 3D Models for Visualization & Functional Testing (2011)