



S.C. Manufacturing, Inc.

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Equipment List

S.C. Manufacturing, Inc. is a subcontract machining company providing Industry in the US & Canada with CNC machining services. We have been assisting companies both large and small with their out sourcing requirements for over thirty years.

With over 98,000 square feet of floor space in our four plants, over (65) CNC machine tools and over twenty auxiliary machines, we can produce the highest quality components for all of your manufacturing needs.

Our Plants No. 1 & 3 are conveniently located at the I-76/Gilchrist Rd. interchange on Akron's east side; Plant No. 2 & 4 are located in the Akron Municipal Airport Industrial Park.

QUALITY

We have been assessed and certified to **ISO 9001:2008** standards by Smithers Quality Assessment, Inc. Our certification number is 03.008.6.

Inspection equipment includes:

- (1) Microstar Coordinate Measurement machine with Geomet 300 software. 40" x 30" x 25" measurement envelope.
- (1) Faro Arm - Portable Measuring Device, 8ft cube (CMM Portable Arm)

PRODUCTION

S.C. Manufacturing utilizes an integrated production scheduling and control system running on networked Personal Computers to insure that our customer's delivery requirements are met. Additionally, we have an in-house staff of programmers using state-of-the-art CAM software for generating the machine control programs. Our production equipment includes the following:

CNC HORIZONTAL / VERTICAL MACHINING CENTERS

- (1) Anayak HVM-5000 traveling column horizontal/vertical machining center with Huron type universal head. Vertical machining envelope of 169" (X) axis, 78" (Y) axis, 47" (Z) axis. Horizontal machining envelope of 169" (X) axis, 96" (Y) axis, 47" (Z) axis. Fanuc O-M CNC control. CAT V-50 shank tools and 30 tool magazine.

CNC VERTICAL MACHINING CENTERS

- (1) Johnford 850 VMC with pallet changer. Machining envelope of 22" (x) axis, 31" (Y) axis and 26" (Z) axis. Geared head-coolant through spindle. CAT V-40 shank tools and 24 tool magazine. Fanuc control.
- (1) Mazak AJV 35/60 with pallet changer. Machining envelope of 60" (X) axis, 35" (Y) axis and 26" (Z) axis. Two 30" x 60" pallets. CAT V-50 shank tools and 60 tool magazine. Mazatrol M-32 CNC control with Renishaw probe.
- (1) Enshu 650 VX. Machining envelope of 65" (X) axis, 25.6" (Y) axis and 26" (Z) axis. CAT V-50 shank tools and 30 tool magazine. Fanuc 15M CNC control.
- (1) SNK VMC. Machining envelope of 44.5" (X) axis, 26" (Y) axis and 25.5" (Z) axis. CAT V-50 shank tools and 24 tool magazine, Fanuc 6M CNC control.
- (1) Ooya Model Vertical Machining Center, 1400 CNC, (x) = 59.1", (y) = 31.5", (z) = 27.6" with dual pallet changer, Fanuc COM Control
- (3) Hitachi, Seiki, VK65, Vertical CNC Machining Centers w/ 24.8" x 39.4" pallets, (x) = 50", (y) = 26", (z) = 26"

CNC HORIZONTAL MACHINING CENTERS

- (2) 2007 - Makino A81 HMC, X = 35.433 x Y = 31.496 x Z = 40.157, with 4th axis contouring, 1000 PSI trough the spindle, 60 position tool changer, probes and 2- 630mm pallet shuttle system
- (1) 2007 Daewoo ACE DB, CNC, Large Boring Mill – X=118.1, Y=78.7, Z=63", W=27.6" Max load, 33,000 lbs, .001 Continuous Rotary Table & Moving Column , 90 position tool changer
- (1) OKK MCH 800, Horizontal Machining Center CNC MATIC-G, X=79, Y=40", Z=32 – TABLE 59" X 31.50" X 31.50"with Linear Scale Feed Back
- (1) OKK MCH 700, Horizontal Machining Center CNC MATIC-G (MCH700) X=59", Y=31.50", Z=31.50" – TABLE 59" X 31.50" X 31.50"
- (1) Mazak - HMC-15 with 6 pallet carousel and 24.8" square pallets, Machining envelope of 39.39" (X) axis, 31.5" (Y) axis and 29.53" (Z) axis. 360 position rotary table, CAT V-50 shank tools and 80 tool magazine. Mazatrol CAM M-2 control.
- (1) Mazak - HMC-15 Module A, with 6 pallet carousel and 19.7" square pallets Machining envelope of 25.6" (X) axis, 21.6" (Y) axis and 19.7" (Z) axis. 360 position rotary table, CAT V-50 shank tools and 40 tool magazine. Mazatrol CAM M-2 control
- (1) Toyota, 4 Axis, CNC Horizontal Machining Center, Model FH-55, 22" Square Pallets, (x) = 28", (y) = 22", Fanuc II M Control
- (1) Niigata HN-80 (2) 31" square pallets with changer Machining envelope of 44" (x) axis, 35.4" (Y) axis, 31.4" (Z) axis. 5° degree table index, CAT V-50 shank tools and 90 tool magazine. Fanuc 6MB control

- (1) Niigata HN-80C, 4 Axis, CNC Horizontal Machining Center, (x) = 60.2", (y) = 48", (z) = 36.2" with 31.5" Square pallets with changer, Fanuc 16M Control
- (3) Hitachi Seiki HG 800, 4 Axis CNC Horizontal Machining Center, (x) = 44", (y) = 47", (z) = 33", 31.5" Square pallets, Fanuc 15M Control

CNC HORIZONTAL MACHINES

- (1) Cincinnati 20H2500 three axis horizontal. Machining envelope of 100" (X) axis, 60" (Y) axis, 26" (Z) axis, Allen-Bradley 9240 CNC control
- (1) Cincinnati 20H2500 three axis horizontal. Machining envelope of 100" (X) axis, 40" (Y) axis, 26" (Z) axis, Allen-Bradley series 9 CNC control
- (1) G & L, Model 70E4T, Allen-Bradley Control, 4" Spindle, 32" x 32" Table, X = 48", Y = 60", 100" Saddle in, 28" Spindle out
- (1) G & L, Model 350T, Dyna-Path Control, 5" Spindle, 48" x 48" Table, X = 84", Y = 46", 50" Saddle in, 21-1/2" Spindle out

CNC LATHES

- (1) 2007 Daewoo PUMA 700M CNC LATHE With Live Tooling, 35.4" swing, 63" max turning length, 12 station turret, 60 HP drive, 6.3 Bar Capacity, Heavy Duty Turret and Programmable Tailstock.
- (1) 2007 Daewoo INVERTURN CNC LATHE With Live Tooling & Auto Load System, Minimum Turning 12.6" dia., Chuck Dia 12", 7.9" max turning length, 12 station turret, 30 HP, 4000 RPM, 10 pallet loading stations.
- (1) Bardons & Oliver Model 36TBC – CNC Cut-Off Lathe, Fanuc Controls, Live Tooling, 6-5/8" Round Bar Capacity with a 24 foot Capacity Loading Table.
- (2) Cincinnati Milacron 2216C universal lathes. 30" swing, 40" between centers, 12 station turret, 60 HP drive. Acramatic 850 CNC control. Note: one is equipped with a steady rest.
- (4) Danichi Model B-70 universal lathes. 27.5" swing, 60" between centers, 12 station turret, 50 HP drive. Fanuc 6T CNC control.
- (1) Danichi Model B-70 universal lathe. 20" swing, 40" between centers, 12 station turret, 50 HP drive. Fanuc 6T CNC control.
- (1) Danichi Model B-70 universal lathe. 20" swing, 80" between centers, 12 station turret, 50 HP drive. Fanuc 6T CNC control.
- (1) Hitachi Seiki universal lathe. 20" swing, 36" between centers, 10 station turret with quick change tooling system. Conversational CNC control
- (1) Okuma Cadet 8" Chuck, CNC Okuma Control
- (1) Mori-Seiki SL5 12" Chuck CNC lathe, Fanuc control.
- (1) Mori-Seiki SL-OH Collet Chuck CNC lathe, Fanuc control.
- (1) Mori-Seiki SL-1B Collet Chuck CNC lathe, Fanuc control.

CNC VERTICAL TURNING CENTERS (VTL)

- (1) Scheiss - Vertical Turning Center, 49" Ø table, 72" swing, 60" under the rail, tool changer with 12 tool magazine. Siemens CNC control
- (1) Scheiss - Vertimaster Model 16DS turning-boring-milling center, twelve station automatic changer with vertical, right angle, and universal milling heads, 49" table swing, 63" diameter x 60" with high turning capacity
- (1) Toshiba - Vertical Turning Center, 49" Ø table, 60" swing, 60" under the rail, Fanuc CNC Control

CNC PRODUCTION TURNING CENTERS

- (1) Kitako Model MT4-120 high production lathe, 4 spindles with 6" chucks and 6 station turrets and with Fanuc CNC control.
- (14) Kitako Model MT4-170 high production lathes. 4 spindles with 8" chucks and 8 station turrets and Fanuc CNC control.
- (4) Kitako Model MT4-250 high production lathe. 4 spindles with 10" chucks and 8 station turrets., with a Fanuc CNC control.
- (2) Kitako Model VT4-200 high production lathe. 4 spindles with 8" chucks and 8 station turrets., with a Fanuc CNC control.
- (1) Kitako Model VT4-350 high production lathe. 4 spindle with 12" chucks, two slides (4 axis). Fanuc CNC control.
- (1) Kitako Model VT4-450 high production lathes. 4 spindle with 15" chucks, two slides (4 axis). Fanuc CNC control.
- (2) Kitako Model VT4-550 high production lathe. 4 spindle with 18" chucks, two slides (4 axis). Fanuc CNC control.

AUXILIARY AND SUPPORT EQUIPMENT

- (2) Bardons & Oliver automatic cut-off lathes, 8" collets.
- (5) Cone six spindle automatics. 4" collet capacity with 20" stock stand.
- (1) Cone four spindle automatics. 5-1/4" collet capacity.
- (3) Engine lathes, up to 24" swing, 60" between centers.
- (3) Bridgeports with digital readouts and power feeds.
- (1) 50 Ton Hydraulic Press – KR-Wilson/Chishlom/Ryder, Model DCT-50
- (1) Radial drill, 12" column, 3' arm.
- (1) Kaltenbach Model SKL 500 automatic cold saw.
- (1) Eisele Model LMs 500 automatic cold saw.
- (3) Vertical band saws.

- (2) Sweco vibratory finisher, 10 cubic foot bowl.
- (3) MIG welding stations
- (1) TIG welding station.
- (2) Surface grinders.
- (1) Cincinnati Monoset tool and cutter grinder.

PRODUCTION SAWS

- (3) Amada HM 400 saws. 16" x 16" capacity.
- (3) Kasto Twin A4 automatic saws. 15-3/4" x 15-3/4" capacity.
- (1) Doall Model C-30SNC automatic saw.
- (1) Kasto automatic saw. 14" x 16" capacity.

SOFTWARE

Auto-Cad - 2004 & 2007

Edge-cam – CAM Software

Solid Works – 2004

Global Shop Solutions – E.R.P. System