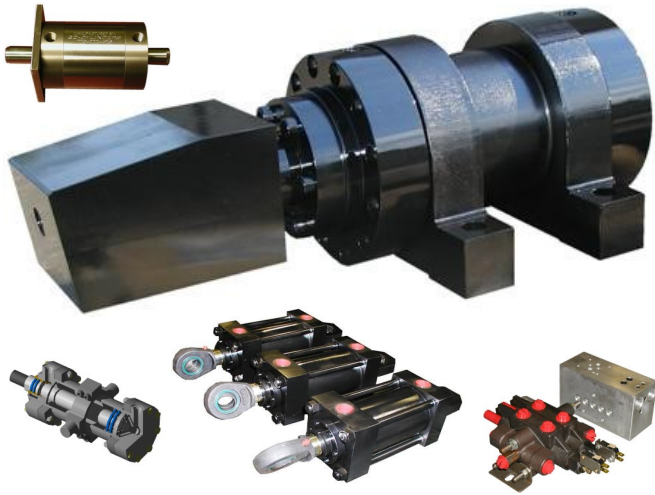


Services

New Manufacture and Repair

- Complete cylinder repair.
- NFPA / Metric , Mill Type Cylinders, Tie Rod and welded construction.
- Pressure testing of all cylinders, pneumatic and hydraulic before shipment.
- All components measured for proper tolerance and fit
- Custom machined rods, tubes, glands, etc...
- Weld repair of damaged components.
- Custom cylinder fabrication.
- Engineering Services



Chuck Wolf - General Manager
c.wolf@3d-machine.com

Greg Richardson - Vice President
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(40+ years in manufacturing)

Sam Roberts - President
s.roberts@3d-machine.com
(30+ years in manufacturing)

Mailing address:
PO BOX 1289
POWDER SPRINGS, GA 30127

With our combined knowledge, hands-on, management, and engineering experience, we will build your product with a competitive edge against any company in the machining industry.

With the efficiency of email and today's technology we can produce your product in a timely manner. We can import a wide variety of cad formats including: .DWG, .IGES, .DXF, .SAT, CATIA, .STL, STEP, Parasolids® .T.X_T, etc.

Industries Served

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For small to very large part machining check out:

www.3d-cylinders.com

For more information please visit us at:

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For immediate assistance call: Chuck Wolf ext. 200

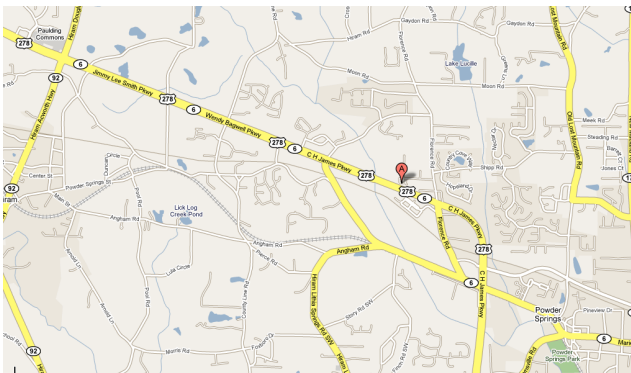
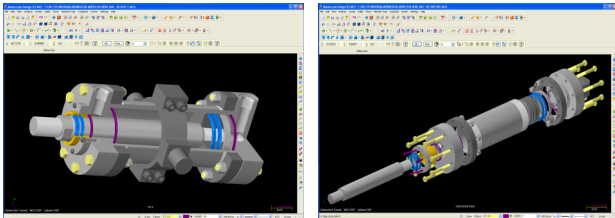
PHONE: 770.439.9497



A pledge to our Customers

3D-Cylinders will machine parts to meet customers' exact specifications delivering the highest quality product. We understand the requirements and are focused on providing our customers with competitive prices, on schedule.

- CNC Horizontal Boring Mill Work
- CNC Lathe Work
- CNC Vertical Mill work
- Manual Lathe/Mill work
- Assembly, Welding, and Fabrication



**4073 FAMBROUGH DRIVE BLDG 300
POWDER SPRINGS, GA 30127**

PHONE: 770.439.947
FAX: 770.943.4353

www.3d-cylinders.com

Machine list

LATHES

- (1) DOOSAN 670L LATHE 26.3" X 70.87" 4.06 BORE PROGRAMMABLE TAIL STOCK
- (1) MAZAK - QUICK TURN NEXUS 450-II
- (1) MAZAK - QUICK TURN NEXUS 350-II M
- (1) HAAS SL30 CNC LATHE 17" X 34" X 4.03
- (1) HAAS SL20 CNC LATHE 10" X 20" 2.062" BORE WITH BAR FEEDER & PARTS CATCHER. PROGRAMMABLE TAIL STOCK. 4000-RPM SPINDLE.
- (1) ENGINE LATHE 20" X 80"
- (1) ENGINE LATHE 26" X 120"

HORIZONTAL MILLS

- (1) KBN135 BORING MILL

TABLE SIZE mm (in)	2,000 X 1,800 (78.7 X 70.9)
MAX LOAD ON PALLET kg (lb)	10,000 (22,046)
TRAVEL (X/Y/Z) mm (in)	3,000 X 2,000 X 1,600 (118.1 X 78.7 X 63)
RAPID TRAVERSE (X/Y/Z) m/min (ipm)	8 / 8 / 8 (315 / 315 / 315)
TAPER NT	#50
SPINDLE SPEED	2,000
SPINDLE POWER kW (HP)	22/18.5(30/25)
TOOL CAPACITY EA	40
CONTROLLER	FANUC 16iM
- (1) MAZAK HORIZONTAL MACHINING CENTER MODEL H-630
 - 6 PALLETS - Pallet size - 24.7" X 24.7"
 - X-Axis Travel - 39.4"
 - Y-Axis Travel - 31.5"
 - Z-Axis Travel - 29.5"
 - Number of tools in ATC - 120
 - Spindle Taper - CAT #50
 - Spindle Speeds - 4500 RPM
 - Spindle Motor - 20/30 HP
 - Table Load Capacity - 2460 lbs.
 - Table Indexing - 1 Degree
 - Rapids Traverse (X,Y,Z) - 787 ipm

VERTICAL MILLS

- (1) HAAS VF-8 CNC VERTICAL MILLING CENTER 64"X40"X30" : 10,000-RPM 30HP SPINDLE & PROGRAMMABLE & THRU THE SPINDLE COOLANT.
- (1) HAAS VF-3 20" X 40" X 25" CNC VERTICAL MILLING CENTER: 7500-RPM 20HP SPINDLE & PROGRAMMABLE COOLANT.
- (1) HAAS VF-0 20" X 16" X 20" CNC VERTICAL MILLING CENTER: 15,000-RPM 20HP SPINDLE & PROGRAMMABLE COOLANT.
- (1) HAAS VF-2SS 30"X16"X20" CNC VERTICAL MILLING CENTER: 12,000-RPM 30HP SPINDLE, GLASS SCALES, & PROGRAMMABLE COOLANT.
- (1) HAAS VF-3SSYT 40"X26"X25" CNC VERTICAL MILLING CENTER: 12,000-RPM 30HP SPINDLE, GLASS SCALES, & PROGRAMMABLE COOLANT.
- (1) BRIDGEPORT MILL WITH ROTARY TABLES

4TH AXIS ROTARY TABLES (SIMULTANEOUS)

- (1) HA5CS-CNCB ROTARY 4TH AXIS SUPER HIGH SPEED 725 DEG/SEC SERVO INDEXER W/MANUAL COLLET CLOSER. FOR SMALL PARTS MACHINING, HIGH-SPEED DRILL & TAP OPERATIONS OR REPETITIVE PARTS WHERE FAST CYCLE TIMES ARE IMPORTANT.
- (1) HAAS HRT 160 ROTARY 4TH AXIS
- (1) HAAS HRT 210 ROTARY 4TH AXIS
- (1) HAAS HRT 210SHS-CNC-HD 210 ROTARY 4TH AXIS DETAILS: 210 MM (8.27") SERVO ROTARY TABLE W/SUPER-HIGH-SPEED 360 DEG/SEC INDEXING. NEARLY SIX TIMES FASTER THAN THE STANDARD HRT 210, THE 210SHS GREATLY INCREASES PRODUCTIVITY WITH RAPIDS TO 360 DEG/SEC AND FEED RATES TO 270 DEG/SEC.

Machine list continued

5TH AXIS ROTARY TABLE (SIMULTANEOUS)

- (1) TRT160

SAWS

- (1) S-20A Series III
 - 60 degree One-way Miter Capability
 - 1" x 14'10" blade
 - 17¾" Heavy Duty Cast Band Wheels
 - 3 Hp Direct Drive Motor with A/C Inverter offering Variable Band Speed from 45-330 SFM
 - Cast Iron Guide Arms. Adjustable Idler Guide Arm, supported by Linear Bearings
 - Safety Door Interlocks
 - Heavy Duty Vise with Quick Locking Lever System
 - Pre-Set Carbide Guide Inserts (no adjustment needed)
 - Manual Blade Tension with LED Display on Control Panel
 - Blade Breakage Switch
 - Ergonomically positioned "Swing Away" Control Panel
 - Flood Coolant System and Wash Down Hose
- (2) AUTOMATIC HORIZONTAL BAND SAW
- (2) ROLLIN VERTICAL BAND SAW



FABRICATION

- (1) ABB Robotic Welder
- (1) Weld Lathe, PLC controlled
- (1) Syncrowave® 250 DX
- (1) MILLERMATIC 250 WIRE WELDER (MILLER)
- (1) MANUAL BENDING MACHINE



INSPECTION ROOM

- (1) 18" X 24" SURFACE PLATE
- (1) 24" HEIGHT GAUGE
- (1) 9" DIGITAL CALIPER
- (4) 6" DIGITAL CALIPERS
- (1) 24" DIGITAL CALIPERS
- (1) SET GAUGE BLOCKS
- (1) SET GAUGE PINS UP TO .875 DIA.
- (2) DIAL BORE GAUGES (.0001" INCREMENTS)
- (1) SET OF MITUTOYO INDIVIDUAL MICROMETERS 0-12" WITH STANDARDS (.0001")
- (1) STARRET 0-9" DEPTH MICROMETERS
- (2) SET OF TELESCOPING GAUGES
- (1) BROWN & SHARP 14" OPTICAL COMPARATOR



MISCELLANEOUS

- Drill Presses
- Surface Grinder
- Bench Grinders
- Belt Sander
- Angle Plates
- Heat Treat Oven