

Allis-Roller, LLC

Machine List

Machining - machines arranged on our floor for optimal cellular flow

CNC Turning - 18 machines

- 2 - 2021 - Doosan TT2500SY Twin Spindle 3.00" bar capacity, lemca bar feeder, auto offload table
- 1 - 2018 - 2008 Might Viper VT-33 CNC lathe 9.6" steady rest 14" turn dia x 115" long
- 1 - 2017 - 2006 Romi flat bed CNC lathe 12" chuck - 14.2" turn dia x 115" long
- 1 - 2017 - 2007 Ingersol flat bed CNC lathe 12" chuck - 13" turn dia x 75" long
- 1 - 2013 Samsung SL-45BBM - 6" bar cap. - live tool - 24" chuck - 28" turn dia x 85" long - 9.6" dia auto steady rest
- 1 - 2013 Wia L300C - 3.5 bar cap. - 12" chuck - 22" turn dia x 28" long
- 1 - 2012 Samsung SL-35 - 4.6" bar cap. - 15" chuck - 16.5" turn dia x 56.0" long
- 1 - 2012 Fryer - 6" bar cap. - dual 20" chucks - 30" turn dia x 115" long - 12.2" dia auto steady rest
- 1 - 2011 Samsung SL-45 - 4.6" bar cap. - 18" chuck - 28" turn dia x 85" long - 9.6" dia auto steady rest
- 1 - 2011 Yama Seiki GS260M - 2.55" bar cap. - 10" chuck - live tooling - prepped for bar feed work
- 1 - 2010 ToolMex Flatbed - 3.5 bar cap. - 12" chuck - 28" turn dia x 115" long - manual steady & follower rests
- 1 - 2009 Kia SKT-400 - 3.5" bar capacity - live tool - 15" chuck - 25.0" turn dia x 47" long
- 1 - 2008 Yama Seiki GA2600 - 2" bar capacity - 10" chuck - 14" turn dia x 24" long
- 1 - 2007- Kia SKT 300 - 3.5" bar capacity - 12" chuck - 22.0" turn dia x 28.0" long
- 1 - 2006 Kia SKT 25 - 3" bar capacity - 12" chuck - 19.7" turn dia x 28.0" long
- 1 - 2005 Mori Seiki NL-3000 - 4" bar capacity - live tooling - 15" chuck - 16.5" turn dia x 26.0" long
- 1 - 1997 Mori Seiki SL-200MC - 2" bar capacity - live tooling - 8" chuck - 15.3" turn dia x 20.0" long
- 1 - 1996 Mori Seiki SL-300 - 2.9" bar capacity - 12" chuck - 16.3" turn dia x 28.3" long

CNC Milling - 7 machines

- 1 - 2020 Mazak Nexus 6800 Horizontal MC 1 degree rotation 630mm(24.8") pallet 120 tools
- 1 - 2019 Mazak 805G Vertical MC - traveling column 32.3" x 137.8" table - Z 28.3" 120 tools
- 1 - 2013 Wia F500VM VMC - 43.3 x 21.7 x 20.5 - Cat 40 taper - 1.5 second tool to tool
- 1 - 2012 Wia F500-50 VMC - 43.3 x 20.1 x 25.0 - Cat 50 taper - 4 second tool to tool
- 1 - 2010 Mazak 510C-II VMC - 43.1 x 20.0 x 20.0 - 2 pallet shuttle table - Cat 40 taper - 1.3 second tool to tool
- 1 - 2005 Mazak 510C VMC - 43.1 x 20.0 x 20.0 - 2 pallet shuttle Cat 40 taper - 1.6 seconds tool to tool
- 1 - 1995 Mazak V515 VMC - 41.3" x 20.0" x 20.0" - table 51.1" x 21.6" - Cat 50 taper - 60 tool magazine

Grinding - cylindrical 3 machines

- 1 - 1999 Toyoda GL8P CNC 90 head - 16" max dia x 40" long
- 1 - 1995 Toyoda GL4A CNC 30° head - 11.8" max dia. x 40.0" long - auto sizer.
- 1 - 1996 Toyoda GL4P CNC 90° head - 11.8" max dia. x 40.0" long - auto sizer.

Hobbing & Broaching

- 1 - Barber-Coleman Hob - 16-36 rebuilt in 2012
- 1 - Barber-Coleman Hob - 10-20
- 2 - Barber-Coleman Hob - 16-56

- 1 - LaPoint Broach 40,000 lb x 72" stroke
- 1 - LaPoint Broach 40,000 lb x 64" stroke

Fabrication - machines arranged on our floor for Lean Manufacturing of assemblies

Robotic Welders 4 cells

- 1 - 2021 InMotion 3 robot welding cell. 1 positioning robot. 2 weld robots
- 1 - 2018 dual head Sub-Arc multi-pass welding lathe - built at Allis Roller
- 1 - 2018 Miller/Panasonic 2 station rotational lathe/trunion fixture, 5 axis robot weld system parts 20" dia x 60" long
- 1 - 2016 Miller/Jetline Robotic 2 1/2 axis MIG - Tube Welding Lathe with Miller 450-DI welder
- 1 - 1999 Robotic 2 axis Sub Arc - Tube Welding Lathe with Miller 650 welder

Welding - 29 total welders

- 2- Miller XMT304 with 22A Feeder
- 2- Miller XMT350 with 24A feeder
- 2- Miller XMT 450 with 5-74 mpa feeder
- 9 - Miller 252 welders
- 9 -Miller 450 & 452 series welders
- 5- Miller 350P & 350MPA welders
- 1 - Aluminum TIG welding gun for above welders
- 3 - welding lathes - dual chucks/collets - with steady rest centering supports
- 1 - Jetline - shaft & flange power weld head with chuck
- 7 - rotational weld positioners up to 17 feet long
- 1 - 900 degree preheat oven - 75 cubic foot capacity

Drilling

- 1 - double end tube drilling machine
- 1 - special purpose drilling and straightening machine for tubes to 17 ft long

Straightening

- 2 - tube/bar hydraulic straightening machines - max 200" table length & 3 pull positions

Turning

- 1 - manual turret lathe - 8" chuck
- 3 - large manual lathes up to 16" dia. x 115" long

Balancing

- 4 - horizontal dynamic balancing machines up to 24" dia. x 108" long
- 1 - vertical dynamic balancing machine for short parts to 15" long

SBR Rubber Roller Processing line

- 1 - 2013 - 20 ft Downdraft Table with automated 17' carousel for primer and adhesive application
- 1 - 2017 - 20 ft Downdraft Table for primer and adhesive application

1 - 2013 Remco SBR Strip builder - 32" dia x 24 foot long
1 - 2016 Remco SBR Strip builder - 32" dia x 12 foot long
1 - 2013 Autoclave - 60" dia x 22 foot long for vulcanizing
1 - 2017 Autoclave - 60" dia x 22 foot long for vulcanizing
1 - 32" dia x 20 foot long grinding/sanding lathe

Assembly & Fit

1- 2017 Promess CNC controlled Bearing press - to measure minimum press force requirements
Various hand, pneumatic and hydraulic presses
1 - 20 ton hydraulic horizontal press - 110" part capacity - 60" stroke
Manual lathe - 24" dia. x 120" long
5 - deep freeze freezers for header to tube assembly

Quality - all equipment calibrated Annually

1 - 2019 Mitutoyo CMM Crysta Apex 7106
1- 2015 - 6 foot Faro Arm allows 12 foot measurements - portable can measure anywhere
1 - Starrett CMM - 25" x 25" x 22" - Renishaw probe - PC-DMIS
1 - Wilson Hardness tester
1 - Tesa M900 (36") programmable height stand
1 - Tesa M600 (24") programmable height stand
1 - master 81 piece set ceramic Gage Block set - calibration only
3 - steel Gage Block sets
3 - Mitutoyo centers - up to 48" long
Various - granite surface plates up to 40" x 100" long
Various - micrometers, calipers, indicators

Tool Room

1 - 2019 manual lathe - Kingston HJ-1100 High Precision Engine Lathe
1 - manual lathe with thread making capability
2 - manual Bridgeport mills w/DRO
Various - Hob, drill & cutter grinding/sharpening equipment
1 - Surface grinder - wet - 12" x 28" magnet
1 - Surface grinder - 6" x 16" magnet
1 - Weld fab/fitup table

Engineering

6 - Solidworks 3D design software licenses
7 - engineers with over 180 years in Manufacturing - over 150 in Manufacturing/Quality Engineering
4 - toolmakers & maintenance
Gibbs Cam programming software - 4 - lathe and 2 - mill - 1 - 5 axis lathe
Draftsight 2D software
MRP - Epicor 10 - with EDI capability
Microsoft Office Suite

Microsoft Project

Adobe Acrobat Professional