

AMERICAN MACHINING SOLUTIONS

MACHINES AND CAPABILITIES

MILLING CENTERS			TURNING CENTER
2016 HAAS VF6	2016 HAAS VF4	2016 HAAS DM-1	2007 HAAS SL30T
			
-7500 RPM Spindle, 50 taper, 30 hp vector drive, 2-speed gearbox	-10,000 RPM Spindle, 40 taper, 20 hp vector drive, 2-speed gearbox	-15,000 RPM Spindle, 40 taper, 15 hp vector drive, in-line direct-drive	-3400 RPM Spindle, Motor: 30HP Vector Dual Drive
-Travel: X=64", Y=32", Z=30"	-Travel: X=50", Y=20", Z=25"	-Travel: X=20", Y=16", Z=15.5"	-Travel: X=11.3", Z=60"
-Tool changer capacity = 31 tools	-Tool changer capacity = 25 tools	-Tool changer capacity = 19 tools	-Turret Stations: 12
-Through spindle coolant	-Through spindle coolant	-Through spindle coolant	-Rapid Traverse: 710 IPM
-Horizontal rotary table HRT 310 (4 th axis, 12" DIA)	-Horizontal rotary table HRT 210 (4 th axis, 8" DIA)	-Midaco automatic pallet shuttle, for high volume production work	-Spindle Bore: 2.875" -Spindle Nose: A2-6
-On-board Probing system (Renishaw)	-On-board Probing system (Renishaw) W / NextGen Control	-On-board Probing system (Renishaw)	-Hydraulic Steady Rest -Max Turning Dia: 17"
-Programmable Coolant System and Automatic Air Blast	-Programmable Coolant System and Automatic Air Blast	-Capable of machining all materials, from Aluminum to Exotic Steels	-Max Swing Over Bed/Carriage: 30"/14.5" -Max Between Centers: 60"
-High Speed Machining	-High Speed Machining	-High Speed Machining	-Max Bar Capacity: 2.875"

R & D/TOOL ROOM EQUIPMENT

- WEBB Manual Milling Machine
- Hardinge Chucker Lathe
- Surface Grinder
- Rockwell Drill Press
- Horizontal Bandsaw
- Vertical Bandsaw

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INSPECTION EQUIPMENT AND CAPABILITIES

<u>CMM</u>	<u>MIRO-HITE</u>	<u>OPTICAL COMPARATOR</u>
2016 Hexagon Metrology 4.5.4 SF	2016 Brown & Sharpe Micro-Hite 900	2016 Brown and Sharpe with Quadra-Chek® 220
		
• Hexagon Manufacturing Intelligence 4.5.4 SF Shop Floor CMM • UMP360 Control System • Temperature Compensation • HH-T Manual Probe Head / Accessory Kit 3-M3 • Calibration Sphere • Computer System and Touch Screen LCD Monitor • Programmable PC-DMIS PRO Measurement Software	• Standard Range = 920mm/36" • Application Range Standard Probe = 0-1075mm/42" • Accuracy inch = .0002" • Repeatability = .0001"/2um	• Measuring Stage Resolution: .00005"/.001 mm • Measuring Travel: 10" (250 mm) horizontal (X), 4" (100 mm) • vertical (Y), 2.5" (60 mm) focus with quick release on x-axis • Precision Measuring Stage: 5" x 16" (125 x 400 mm) • nickel-plated top plate • Allowable Work Load: 50 lb (22 kg) • Digital Screen Protractor on 3550 Series: • angular readings to 1 minute or .01° of arc • Duplex Fiber Optic Surface Illumination • 14" Frosted Glass Screen: with 30-, 60- and 90-degree crosslines • Helix: +/- 6° via lamphouse displacement