



3003 Unionville Pike, Hatfield PA 19440 215-721-5900 • Fax 215-721-6600

www.hefnermachine.com

Michael Hefner, President
mike@hefnermachine.com

Lucas Hefner, CEO
lucas@hefnermachine.com

Lou Bausch, GM
loub@hefnermachine.com

John Furlong, Operations
john@hefnermachine.com

Bob Duffy, Q.A. MGR
bob@hefnermachine.com

Hefner Machine & Tool, Inc. is a full service machine shop. It functions as a "Job Shop", manufacturing products from many different industries, as well as the private sector. Whether a customer needs a single part repaired, a prototype built, or contract a high quantity production run, Hefner Machine & Tool will produce a quality job delivered on time. From a rough sketch or a worn out part, Hefner Machine & Tool can use it to build a new one. We take pride in our quality and delivery record. Quality procedures are strictly enforced.

Our Quality Mission is to provide innovative, consistent, high quality products that meet or exceed our customer's requirements. Commitment to comply with the customer's requirements and dedication to high product standards is what we stand by.

FACILITY LIST

BRAND	QTY	TYPE	MODEL	TRAVEL			TOOL CAPACITY			SPINDLE RPM		
				X	Y	Z	A	B	C			
MILLING												
HURCO	1	VMC	VMX 84i1	84"	34"	30"				40	12,000	
GROB	1	5 AXIS VMC	G750	48"	48"	35"			-5° to +110°	Rotate 0-360°	60	18,000
GROB	1	5 AXIS VMC	G352	38"	38"	35"			-5° to +110°	Rotate 0-360°	60	18,000
GROB	1	5 AXIS VMC w/ PSSR-400-1021 5 PALLET SYSTEM	G352	38"	38"	35"			-5° to +110°	Rotate 0-360°	60	18,000
DMG/MORI	1	5 AXIS VMC	DMU50	20"	18"	16"			-5° to +110°	Rotate 0-360°	60	18,000
DMG/MORI	2	VMC	MILL TAP 700	27"	16"	16"					25	25,000
TOYODA	1	Horizontal/Auto 12 Pallet Changer	FH400J	24"	22"	25"	0-360°				119	15,000
TOYODA	1	Horizontal/Auto 12 Pallet Changer	FH450S	24"	24"	24"	0-360°				280	15,000
KITAMURA	1	Horizontal/Auto 5 Pallet Changer	HX400isII B360	24"	24"	24"	0-360°				40	20,000
TOYODA	2	VMC with 4 th AXIS	AQ1050	40"	20"	20"	360°				40	15,000
TOYODA STEALTH	3	VMC	1165	43"	25"	24"					30	12,000
TOYODA STEALTH	1	VMC w/KME WIRELESS TRUNION	1565	59"	26"	24"			-96° to +116° SWIVEL		30	12,000
KITAMURA	2	VMC	2XIF	20"	14"	18"					30	20,000
KITUMURA	1	5 AXIS VMC	4XT	31"	24"	20"	-42° to +120°		Rotate 0-360°		30	15,000
DOOSAN	1	VMC w/ 4 TH AXIS	DNM500	40"	21"	20"	360°				30	12,000
TOYODA	1	5 AXIS VMC	UQ400	16"	26"	19"	+30/-120				30	15,000
SHARPE	1	KNEE MILL	C-112	40"	9"	16"						3,000



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Michael Hefner : mike@hefnermachine.com
 Lucas Hefner : lucas@hefnermachine.com
 Lou Bausch : lou@hefnermachine.com
 John Furlong : john@hefnermachine.com
 Dawn Musco / Accounting: dawn@hefnermachine.com
 Bob Duffy / QC: bob@hefnermachine.com

BRAND	QTY	TYPE	MODEL		SPINDLE RPM
TURNING					
EURO TECH ELITE	1	Lathe, Twin Spindles with live tooling	B465-SY2	2-1/2" Diameter thru main spindle, 2 turrets with milling 1-3/8 Ø thru sub spindle. 8" chuck on main spindle, 6" chuck on sub spindle. Both spindles also use BA-80 collets and machine has live tooling	MAIN - 4000 SUB - 5000
EURO TECH ELITE	1	Lathe, Twin Spindles with live tooling	B481-SY2	3-1/2" Diameter thru main spindle, 2 turrets with milling 1-3/8 Ø thru sub spindle. 8" chuck on main spindle, 6" chuck on sub spindle. Both spindles also use B60-SC collets and machine has live tooling	MAIN - 3000 SUB - 4000
EURO TECH ELITE	1	Lathe, Twin Spindles with live tooling	Rapido B439Y2	1-1/2" diameter thru main and sub spindle, Capable of simultaneous machining on up to 12 axes. High pressure Coolant System. 12-foot automatic Top Bar feeder.	MAIN - 7000 SUB - 7000
TOYODA TAKISAWA	1	Lathe, Single Spindle	NEX-105	1-5/8" max bar diameter through the spindle. Spindle uses a both Chuck Jaws and 5C Collets. Mounted tailstock and parts catcher	6,000
DOOSAN	1	Lathe 220	220	2.5" diameter thru spindle, LNS quick load Servo magazine and automatic bar load. 8" chuck	4,000
DOOSAN	1	Lathe 300	300	3.0" diameter thru spindle; 10" chuck, 12" maximum diameter processing	3,500

EDM

• SODICK	1	WIRE EDM	AQ327L	14.57"	10.63"	9.84"
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SAWS & GRINDERS

MODEL

- MILTON Vertical Band Saw
- CHEVALIER FSG-618M Surface Grinder
- CLAUSING Automatic Band Saw 14"
- CLAUSING Cold Saw 12"

INSPECTION

Conforming to ANSI/ISO/ASQ Q9001-2015 International Standard

	TYPE	MODEL
• ABERLINK	CMM/3D/CNC	AXIOM-TOO
• MITUTOYO	CMM/3D/CNC	Cysta Apex S9166
• STARRETT (2)	Optical Comparator	HE400
• KEYENCE	Image Dimension Measuring System	IM-7001
• MITUTOYO	Surface Roughness tester	S-J-210
• MANTIS ELITE	10X Inspection Scope with Vision Engineering Image Capture Software package	
• MANTIS (4)	4X Inspection Scopes for precise F.O.D. screening and removal	

ASSEMBLY

- PEM-SERTER: series 4 1 Pneumatic installation press-, 6ton capacity with an 18" throat designed for PEM self-clinching. Fastener sizes: #0 (M2) thru 3/8 (M10) installed in aluminum or steel, sheet metal or type K in circuit board. Various insertion tools for mil- spec inserts and helicoils.
- KATO: Air Driven Installation Tool 2 Able to install tangled and tangless screw thread inserts

VACUUM CHUCKING

Hefner Machine & Tool makes all their own vacuum fixtures for thin and difficult to hold parts. This allows us to hold precision tolerances on very thin parts.

DEBURRING

- TUMBLE DEBURRING Hefner Machine & Tool has the capability for tumble deburring as well as grit / bead blasting using our ZERO
- BEAD BLASTING PULSAR Bead Blast Enclosure for all of your specialized finish requirements

ENGINEERING

- Markforged X7 3D Printer 1 Materials: Onyx, Onyx FR, Nylon White, ABS, Carbon fiber, fiberglass, Kevlar®, HSHT fiberglass
Build Volume: 330 x 270 x 200 mm (13 x 10.6 x 7.9 in) Machine Footprint: 584 x 483 x 914 mm (23 x 19 x 36 in)
- Keyence MD-X1500C Laser Mark System 1 YVO4 laser, Class 4 Laser Product (IEC60825-1, JIS C6802, FDA [CDRH] part 1040.10)*2 Semiconductor laser, wavelength: Marking area: 4.92" x 4.92" x 1.65" / Standard working distance: 7.44" (±0.83") / Marking resolution: 2 µm Scan Speed: 472.44"/s

