

## EQUIPMENT & SOFTWARE OFFERINGS

While proper equipment is essential to our business, our craftsmen are the key to your success. Our team is thoroughly educated in industrial engraving and mold texturing, which allows us to complete even the toughest jobs. Let us prove we are best-in-class!

### »» CNC MACHINES

- (02) HAAS VM-2 MOLDBAKING VERTICAL MACHINING CENTERS
- (01) RAMBAUDI DIGI TRACE 600 - CNC MILLING
- (01) SHARNOA SGC-30 - HIGH SPEED CNC
- (01) SHARNOA TYPHOON 2 - CNC MILLING MACHINE
- (01) SHARNOA TYPHOON 3 - HIGH SPEED CNC
- (01) SHARNOA M32 - HIGH SPEED CNC MACHINING
- (01) SHARNOA M32 S - HIGH SPEED CNC MACHINING

### »» SINKER EDMS

- (01) MITSUBISHI 55J CNC EDM
- (01) MITSUBISHI 35J CNC EDM
- (01) MITSUBISHI 25J CNC EDM
- (01) HANSVEDT BENCHMAN EDM
- (01) HANSVEDT TRADESMAN EDM
- (01) HANSVEDT MASTER EDM
- (01) CINCINNATI MILACRON ELECTROJET 18E EDM

### »» SOFTWARE

- (02) CAMAX-CAMAND – 3D CAD CAM SEATS
- (02) SURFCAM – 3D CAD/CAM NT

### »» ADDITIONAL

- (02) GORTON P2-2 PANTOGRAPH
- (03) DECKEL GK21 - 3D DUPLICATORS
- (10) DECKEL - CUTTER GRINDERS
- (03) BRIDGEPORT - MILLING MACHINES
- (01) GORTON 016A - MILLING MACHINE
- (01) TAKISAWA - LATHE
- (01) BOYER SCHULZ H618 - SURFACE GRINDER
- (01) HARIG 612 - SURFACE GRINDER
- (01) ETCHING MACHINE
- (05) OFFICE WORKSTATIONS
- (08) ENGINEERING WORKSTATIONS
- (02) LARGE FORMAT PRINTERS
- (05) OFFICE PRINTERS
- (02) SERVER RACKS - NETWORK
- (01) NIKON TOOLMAKERS MICROSCOPE
- (03) MISC. MEASURING

Find your competitive advantage and partner with our team!



We are craftsman who view  
our work as an artform.

## TEXTURING

Our mold texturing department is approved by OEM companies including those in the automotive industry. We continuously invest in new technology and engraving methods to ensure we provide our customers with the best processes to match their needs. Our UniFlex Flexible Film method allows us to apply textures to complex geometry, even multi-compounded curves and angles!

## ENGRAVING

Our experienced craftsmen use the latest technology to create fully detailed cavity and core engraving that matches to the print detail. From your approved artwork or design, we can transfer your image onto a two or three dimensional mold surface. Our skilled engravers use state-of-the-art technology for each project.

## CNC MACHINING

Using state-of-the-art computer hardware, software, and 4th axis capable machining, our machine centers produce complicated shapes (even helical geometry) and computerized engraving on flat, contoured, and rotary shapes. We are capable of producing intricate prototypes and accurate repeatability of electrodes.

## ELECTRODES

Regardless of the configuration, flat, radial, concave, convex, or spherical, we can meet your most demanding requirements. We have the ability to work from your original artwork or electronic files with sizes ranging from the most minuscule detail up to 24" x 48" x 24". We can reproduce virtually any design or letter, either raised or sunken.

## DUPLICATING

For more than 85 years our customers have relied on us for fast turn-around and economical services. Whether the job requires manual or CNC duplicating we have the knowledge and experience to meet your specific requirements. Our expertise allows us to duplicate geometry even if CAD data is not supplied. We have a wide variety of methods to ensure detail is not lost in the duplication process.

## CAD-GRAVE

CAD-GRAVE is a high-technology engraving system specifically designed by Wisconsin Engraving Company with the toolmaker in mind. This unique system can handle:

- Sidewalls
- Low Clearance Areas
- Tight Fits
- Proper Depth Consistency
- Proper Draft Consistency

Our CAD-GRAVE process satisfies requirements for the most complex shapes and contours and is ideal for mold surfaces that are not accessible by a cutter, engraving is too close to a vertical wall, or the mold is heat-treated. Whether your project requires fine graduation lines and numbers for a medical product, or a highly detailed logo, CAD-GRAVE should always be your first choice. Learn how programs from single cavities to hundreds of cavities can be processed quickly and professionally without needing to use multiple sources.

## DIGITIZING

Using Conventional Touch Probe and Non-Contact Laser digitizing we have the ability to capture part geometry with a resolution of .0004". Once the data has been scanned or digitized, we can output as a point cloud, 2D or 3D curve, spline, and surface data. Then, once it has been scanned or digitized, we can output as a point cloud, IGES curve, or polygon (STL format).

## MARKING STAMPS

Depending on the needs of your application, we have experience with flat stamps, roll stamps, steel type, and hand stamps. Skilled engravers apply state-of-the-art technology using a variety of methods. We can reproduce trademarks, symbols, and unique designs to exacting specifications on virtually any blank configuration.

## MOLD POLISHING

We have the skill and equipment to give your molds the most pristine possible. When using our mold polishing services, you will benefit from our professional care and fast turn-around time. From benching cutter marks to the application of high-polish mirror finishes, we have the skills to give you the results you are looking for.

## EMBOSSING TOOLS

Embossing Dies / Coining Dies are used to create a raised or sunken surface on thin material made from metals such as aluminum, stainless steel, copper, or brass. This is done by creating a male and female die that will mark material surfaces on both sides. With this method, it is possible to emboss a clean image on either side of the surface (opposed to just one if a marking die was used).

## MOLD REPAIR

Specializing in Texture and Cosmetic Repair, our knowledgeable team has decades of experience performing repair work to molds. We specialize in mold polishing, parting line fixes, engineering changes, and repairing damaged texture. By utilizing the latest technology and repair methods we maintain our competitive edge while offering cost savings to customers. This ensures a working relationship that promotes trust and satisfaction to all involved!

MM	INCHES	MM	INCHES
1	.039370	56	2.20472
2	.078740	57	2.24409
3	.118110	58	2.28346
4	.157480	59	2.32283
5	.196850	60	2.36220
6	.236220	61	2.40157
7	.275591	62	2.44094
8	.314961	63	2.48031
9	.354331	64	2.51968
10	.393701	65	2.55905
11	.433071	66	2.59842
12	.472441	67	2.63779
13	.511811	68	2.67716
14	.551181	69	2.71653
15	.590551	70	2.75590
16	.629921	71	2.79527
17	.669291	72	2.83464
18	.708661	73	2.87401
19	.748031	74	2.91338
20	.787402	75	2.95275
21	.826772	76	2.99212
22	.866142	77	3.03149
23	.905512	78	3.07086
24	.944882	79	3.11023
25	.984252	80	3.14960
26	1.02362	81	3.18897
27	1.06299	82	3.22834
28	1.10236	83	3.26771
29	1.14173	84	3.30708
30	1.18110	85	3.34645
31	1.22047	86	3.38582
32	1.25984	87	3.42519
33	1.29921	88	3.46456
34	1.33858	89	3.50393
35	1.37795	90	3.54330
36	1.41732	91	3.58267
37	1.45669	92	3.62204
38	1.49606	93	3.66141
39	1.53543	94	3.70078
40	1.57480	95	3.74015
41	1.61417	96	3.77952
42	1.65354	97	3.81889
43	1.69291	98	3.85826
44	1.73228	99	3.89763
45	1.77165	100	3.93700
46	1.81102	101	3.97637
47	1.85039	102	4.01574
48	1.88976	103	4.05511
49	1.92913	104	4.09448
50	1.96850	105	4.13385
51	2.00787	106	4.17322
52	2.04724	107	4.21259
53	2.08661	108	4.25196
54	2.12598	109	4.29133
55	2.16535	110	4.33070