

Equipment List



Engineering

Software

Unigraphics ® NX-6 with MoldWizard
Key Creator ® 8.0
PowerShape ® Toolmaker
PS-Exchange ©
Pro/Engineer ® Wildfire 4.0
SolidWorks ® 2009
SolidView ® 2008
AutoCAD Lite ® 2007

Chicago Mold Engineering stays as current as possible with all the newest software releases. As of the date this list was compiled these are the current revision levels we have installed. Below is our data transfer information for our Engineering Department. Please feel free to contact our Systems Administrator with any questions or inquiries you may have.

Computer Hardware (O/S)

Windows® XP 32 and 64 bit machines with dual and quad core processors.

Printing / Plotting Hardware

XES 8850 ® Plotter / Scanner (Large Format)
Hewlett Packard ® Laser Printers

Data Transfer Options

CDROM / DVD
Email engineering@chicagomold.com
FTP "call or Email for information"
USB Drive

Manufacturing

Production Software

PowerShape ®
PowerMill ®
PS-Electrode ®
CopyCAD ®
ArtCAM ®
SolidView ® 2008

CNC Milling Machines

Horizontal Milling Machines

FPT-LEM 936 horizontal boring mill with a 3-axis +2 milling head, with a 52" x 118" x 78" work capacity, a Fidia high speed control

(2) Giddings & Lewis 8000H 5" horizontal boring mills with 60" x 96" x 67" work capacities, G & L 8000B control high speed 3D CNC controls.

Vertical Milling Machines

Fidia K199 high speed machining center with a 5-axis continuous bi-rotary milling head, 70" X 40" X 40" work capacity.

Fidia K197 high speed machining center with a 5-axis continuous bi-rotary milling head, 65" X 30" X 33" work capacity.

(2) Fidia K165 high speed machining centers with a 3-axis +2 milling head, 40" X 24" X 20" work capacity.

Fidia HS 644 high speed machining center with a graphite milling package, 24" X 18" X 16" work capacity.

Makino V56 full 5-axis high speed milling machine partnered with 3R System Robot equipped with a 162 position work piece changer.

Makino SNC64 high speed milling machine partnered with 3R System Robot equipped with 144 position work piece changer.

Droop & Rein vertical milling machine with a 60" X 96" X 56" work capacity, equipped with a Fidia high speed control.

Haas VF5/50 vertical machining center with a 40" x 85" work capacity.

(2) Haas VF9 vertical machining centers with 40" x 85" work capacities.

EDM Equipment

Ingersoll CNC-1200 Gantry with tool changer 50" X 78" capacity with C-Axis head and compound angle burning capabilities.

Ingersoll CNC-1000E Gantry with tool changer 40" X 60" capacity with C-Axis head and compound angle burning capabilities.

Makino 85W CNC EDM machine with tool changer, 40" X 60" work capacity.

(2) Makino EDNC 65 EDM machines with tool changers, 30" X 40" work capacities and MGF controls. Sinkers have C-Axis heads and compound angle burning capabilities. Machines are partnered with a 3R System Robot equipped with a 162 position work piece changer.

Bridge type machine 63" x 120" capacity, with a 3R orbiting head and ERM 200 AMP control.

**CONTINUALLY
MEETING
EXPECTATIONS**

www.chicagomold.com
sales@chicagomold.com

Inspection Equipment

3D Digitization and 3D Coordinate Measurement

ATOS III optical 3D digitizing (white-light scanning) system with 3 different measurement volumes of 550 x 550 mm; 300 x 300 mm; and 150 x 150 mm. Fitted with ATOS III enhanced projection unit, two measuring CCD cameras with 4M pixels each, and 1.7M AROBI holding structure extension.

Coordinate Measuring Machines

Brown & Sharpe validator with upgraded Sharpe 32 controller, 48" X 60" work table using **PC-DMIS** software *Curves & Surfaces* Release 3.2063 and fitted with an MH8 Probe Head and TP20 Probe.
Faro Arm 8 foot Gold with CAM2 software.

Optical Comparator

Jones & Lamson FC-14.

General Shop Equipment

Milling Machines

(8) **Prototrak Moldmaker** vertical milling machines with a 17" X 31" work capacity machine with 3 axis CNC controls.

Lathes

LeBlond movable bed type lathe - 42" dia. maximum swing.
LeBlond 17" x 54".
Feeler precision lathe.

Surface Grinders

Cincinnati #2 tool & cutter grinders with ID-OD attachments.
Cincinnati Universal ID-OD 10" x 24".
(4) **Gardner** surface grinders 8" x 18".
Mattison surface grinder 30" x 72" x 36".
(4) **Mitsui Hi-column** surface grinders 8" x 18".
(2) **Mitsui Hi-column** surface grinder 6" x 12".
Okamoto surface grinder 24" x 32".

Cutter Grinders

(3) **Deckel SOE** single lip optical cutter grinder.
(3) **Gorton 375-4** universal cutter grinders.

Drill Sharpeners

Darex SP2500
Darex TDR82B

Jig Grinders

Moore #3 jig grinder.

Drilling Equipment

(2) **Eldorado** gun drill sharpeners.
(2) **Giddings & Lewis Bickford** Radial drill press, 6' and - 17" column.
Horizontal gun drill, 144" x 72" x 48" with 72" drilling capacity from one side. Drill sizes range from 1/8" to 2".

Fitting Presses

Reis Model 180 fitting press 200 ton 60" x 96" work capacity.
(2) **Reis 42" x 54"** fitting press.

Welding Equipment

Miller 350 Heliarc welder.
Miller 250 Wire welder.
(2) **Microwelders**.

Band Saws

Do-all 26" contour band saw.
(2) **Marvel #8** high column band saw.

Cranes & Capacities

1st Bay, (1) 5 ton.
2nd Bay, (2) 5 ton.
3rd Bay, (1) 5 ton and (1) 10 ton.
4th Bay, (1) 10 ton and (1) 20 ton.
5th Bay, (2) 10 ton.
6th Bay, (1) 5 ton.

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