



➤ Toolroom Equipment

- (1) Yasda YMC 430 Micro Center with 5-Axis Turntable
- (1) Makino A51NX Horizontal 4-axis Mill
- (1) Yasda YBM640V High Speed Mill
- (1) Makino F5 High Speed Mill
- (1) Mazak Quick Turn Nexus 200-II CNC Lathe
- (1) Makino D200Z High Speed 5-axis Graphite Mill
- (1) Roders RXP 500 High Speed Graphite/Steel Mill
- (1) 3R Workmaster Robot:
integrated 4th axis/indexing, changes steel, electrodes,
tools/cutters, and all tool holding systems including
3R Macro and Dynafix Pallets
- (3) Fanuc CNC Wire EDM's
- (2) Mitsubishi EX 22 CNC Sinker EDM's w/32 pos. Toolchanger
and combi-chuck
- (1) Mitsubishi EA8 CNC Sinker w/16 pos. Toolchanger
and combi-chuck
- (2) Mitsubishi EA12 Sinkers EDM's with 3R Workmaster
Robot/Automated EDM Cell *All
EDM/CNC equipment equipped with 3R macro tooling
- (1) Moore Jig Grinder
- (1) Bridgeport EZ Trak 3 axis Mill
- (1) Bridgeport Series 1 Vertical Mills
w/DRO's-Power Feeds
- (1) Willis, 4' Radial Arm Drill Press
- (1) Okamoto 12.24. DX Hydraulic Surface Grinder
- (6) Mitsui 612 Surface Grinders w/DRO's
- (1) Mitsui 818 Surface Grinder w/DRO
- (1) Clausing Engine Lathe
- (1) Johnson Band Saw
- (1) DoAll Band Saw
- (1) Alliance ID1 Fiber Laser Welder
- (1) Miller Maxstar TIG Welder
- (1) Lucifer Heat Treat Furnace w/programmable timer
- (1) Electra Heat Treat Furnace w/programmable timer
- (1) IPSCO EJ Pin Cut Off Machine
- (1) Beamer Laser Marking System

➤ Engineering

- (15) Creo Parametric licenses
- (4) Creo Mold licenses
- (4) Creo Expert Moldbase Extension (EMX) licenses
- (3) Creo NC licenses
- (1) Moldex 3D E-Design Mold Simulation Software,
Flow, Cool, Warp, Shrink, and Fiber Orientation
- (2) CAM-TOOL licenses
- (3) MasterCam licenses
- (1) SolidWorks 2017 License
- (3) Windows Server 2012 Virtual Network using
VMWare and VMWare Horizon Desktop

➤ Molding & Validation

- (1) 55 Ton Roboshot
- (1) 80 Ton Battenfeld Press
- (1) 110 Ton Roboshot Press
- (1) 110 Ton Roboshot Press w/ robot
- (1) 200 Ton Niigata Press w/ robot
- (1) 315 Ton Niigata Press w/ robot
- (1) 394 Ton Niigata Press w/ robot
- (1) 550 Ton Husky Hylectric Press
- (1) 6-Axis Fanuc LR Mate 200iD Robot
- (1) UR-5 6-Axis Robot
- (1) UR-10 6-Axis Robot
- (2) eDart Systems
- (1) eDart Data Management Server
- (1) Motan Luxor 400 Drying System w/ 7 hoppers
- (3) Mobile Dri-Air Dryers w/ Integrated hoppers
- (1) AEC TDH4Q Hot Oil Controller
- (1) Wittman Hot Water(270°F) Thermolator
- (5) Conveyors, Star/EMI
- (1) Pallet Wrapper
- (1) Haas VF-1 CNC Vertical Machining Center

➤ Quality/Lab

- (1) Brown and Sharp Advantage CMM running PC-DMIS
- (1) Brown and Sharp Image CMM with indexing probe Head
CMM running PC-DMIS
- (1) OGP Flash 302 Touch, Laser, Automated
Vision System
- (1) OGP Flash 200 SmartScope, Automated
Vision System
- (2) Nikon - MM40 Toolmakers Microscope
- (1) Mahr Perthometer
- (1) Computrac Moisture Analyzer
- (1) Zeiss Calypro Seat for CT Scan Analyzing

➤ Secondary Operations

- (1) Dukane Ultra 210 Sonic Welder
- (1) Aero 130 Pro Printer (Pad Printer)
- (1) Primo Cure Drying Tunnel
- (1) Miscellaneous Tools for Assembly/
Secondary Operations

31,350 Total Sq. Ft. Facility

Plant 1 – Mold Manufacturing

999 Production Drive, Wakefield, MI 49968

13,850 sq. ft. facility customized for injection mold toolmaking. Support equipment as required for precision mold making, including 6'x 8' granite plate

Plant 2 – Mold Sampling/ Validation/ Post Sample/ Toolwork

703 Chippewa Drive, Wakefield, MI 49968

17,500 sq. ft. facility customized for injection mold sampling, process development, quality control and validation, and post sample tool work including debug, tweaking/tuning, engineering changes, and mold repair.