

MOLDING EQUIPMENT

Molding Machines

- (1) 16 ton Nissei Full Electric 0.5 oz.
- (1) 28 ton Arburg 1 oz. – vertical capable for inserting
- (4) 55 ton Nissei Full Electric .8 oz., 1.2 oz., 1.6 oz.
- (3) 72 ton Nissei Electric Hybrid 1.2 oz., 1.2 oz., 1.6 oz.
- (2) 89 ton Nissei Electric Hybrid 2.6 oz.
- (1) 89 ton Nissei Full Electric 3.4 oz.
- (1) 121 ton Nissei Full Electric 5 oz.
- (2) 123 ton Nissei Electric Hybrid 3.4oz., 5.0 oz.
- (3) 197 ton Nissei Electric Hybrid 6.7 oz.
- (1) 197 ton Nissei Electric Hybrid 9.6 oz.
- (1) 237 Ton Nissei Electric Hybrid 13.5 oz.
- (1) 308 ton Nissei Hydraulic 18.7 oz.
- (1) 400 ton Nissei Electric Hybrid 26.9 oz.
- (2) 400 ton Nissei Hydraulic 25 oz., 32 oz. CPVC
- (1) 500 ton Nissei Hydraulic 43 oz.
- (1) 780 ton Nissei 135.6 oz.

Dryers

- (22) Dri-Air Dessicant Dryer/Loaders
- (2) Wittmann Dessicant Driers

Mold Temperature Control

- (27) Wittman water temperature controllers
- (1) 7.5 ton water chiller
- (2) 125 ton Delta water tower
- (7) Oil Mold temperature controllers
- (6) Gammaflux single zone temperature controllers
- (4) Gammaflux two zone temperature controller
- (2) Gammaflux eleven zone hot runner controllers
- (2) Glycol closed loop temperature controllers
- (1) Gammaflux twelve zone controller

Inspection Equipment

- (1) Mitutoyo CMM – BH706 w/CMM manager SPC software, video and MIH probe
- (1) Hexagon Global Advantage 575 programmable probe CMM
- (1) OGP SmartScope Flash 500
- (1) Mitutoyo 24" Digmatic height gauge
- (1) Inspection grade surface plate 36" x 36"
- (1) Drop gages, indicators, gage pins, micrometers, calipers, etc.
- (1) Deltronic DH 216 optical comparator with MPC5 digital readout
- (1) Keyence visual inspection system
- (1) Vision Engineering Toolmakers Microscope with Quadra Check DRO

Robotics and Automatic Handling Equipment

- (13) Wittmann hi-speed servo robots
- (9) Wittmann sprue pickers
- (4) Conair ratio loaders
- (8) Conair resin loaders
- (1) Avalon optical mold protection system
- (1) UR5 Universal collaborative robot

Granulators

- (4) Wittmann - sound proofed
- (7) Rapid – sound proofed
- (2) Nissui S-cutter low speed grinders

Secondary Equipment

- (1) 740 square foot segmentable Class 10,000/ISO Class 7 assembly room with attached Class 10,000 gowning room
- (2) Portable clean room Class 10,000/ISO Class 7
- (1) Class 7 portable gowning room
- (11) Branson ultrasonic welders
- (1) Emplex bag sealer
- (2) Automated Systems AutoBag with printing
- (2) Bridgeport horizontal mills
- (2) Automatic tapping heads
- (5) Sonitek heat stake machines
- (1) Tosh pad printer
- (1) Two-color pad printer
- (1) Hurco CNC 3 Axis milling center
- (1) Raptor fiber laser in EMS 200 work station, Z-axis automatic focus with rotary head attachment
- (1) Prototrak 3 axis bed mill
- (1) Prototrak lathe
- (1) TRAK 2op CNC machining center with rotary head
- (1) Zetalase XL laser

Other Equipment

- (1) Two hp. Barrel Tumbler
- (1) Twenty-Seven hp. Screw Air Compressor
- (1) Fifteen hp Rotary Valve Air Compressor
- (1) Four Thousand lb. Fork Lift
- (1) Oven Dryer
- (1) Electric Hand Truck



MOLD MAKING EQUIPMENT

Engineering/Design Software

Solidworks 2023 (Multiple seats)
Autodesk Moldflow 2018 installed and being used
Mastercam 2023

EDM

- (1) Sodick AG55 (4 axis) CNC EDM with 32 station tool changer, linear motion control and 3D solid data capabilities

Wire EDM

- (1) Sodick AG600L CNC Wire EDM X25" Y19" Z13" 5 axis submersible
- (1) Accutex Z 350 hole popper

CNC Machining

- (1) Mazak nexus 510 machining center 30 station tool changer
- (1) Makino F3 (3 axis) machining center with 30 station tool changer laser guided 3D machining 19" x 22" .00006 accuracy

Machining

- (1) Prototrak 3-axis Mill

Grinding

- (1) 12x24 Okamoto/Automatic
- (2) 8x18 Mitsui with digital readouts
- (1) 6x18 Mitsui with digital readouts
- (1) 6x12 Mitsui with digital readouts
- (1) Cosa Cutter Grinder

Miscellaneous

- Tool inventory management system
- (1) Gesswein Ultrasonic polisher
 - (1) Do All vertical bandsaw
 - (1) Wellsaw horizontal saw
 - (1) Miller Dynasty tig welder
 - (1) Ipsco pin cutoff grind machine
 - (1) Hydraulic arbor press
 - (1) Cut-off saw
 - (2) Bench grinders
 - (1) Mitutoyo PH-A14 comparator
 - (1) Micro-Hite 600