

Industrial Molds Group Equipment List

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High Speed Machining Department

Equipment	X Y Z	Features/Notes	
Makino S56 VMC	35" x 20" x 18"	Erowa Automated Robotic Cell	20,000 RPM 20 tools
Makino F5 VMC	35" x 20" x 18"	Erowa Automated Robotic Cell	20,000 RPM 30 tools
Erowa ERS Robot		18 UPC pallets and 12 ITS pallets	
Makino A77 4-Axis HMC	30" x 30" x 30"	2 pallet changer	10,000 RPM, 40 tools
Makino V99	59" x 40" x 32"		12,000 RPM 30 Tools
Makino V33 VMC	25" x 18" x 14"		20,000 RPM 24 Tools

Wire EDM Department

Equipment	X Y Z	Features/Notes
Makino U32j Wire EDM	13.5" x 10" x 8"	
Makino U6 H.E.A.T	25.6" x 17.7" x 16.5	
Makino U6 H.E.A.T	25.6" x 17.7" x 16.5	
Ocean River 3 EDM Hole Driller	12" x 7.5" x 7"	
Vision Unix III Laser Welder		Ideal for Mold Repair

Mold Base Department

Equipment	X Y Z	Features/Notes
Hurco VMX64 VMC	64" x 34" x 30"	6,000 RPM 32 Tools
Makino A82 4-axis HMC	30" x 30" x 30"	2 pallet changer 10,000 RPM 60 tools
Makino 77 4-axis HMC	30" x 30" x 30"	2 pallet changer
OKK 1000s Horizontal Mill	55" x 43" x 40"	40" x 40" Pallet changer 8,000 RPM. 60 tools

EDM Die Sinking Department

Equipment	X Y Z	Features/Notes
Charmilles Roboform 550 EDM	23.5" x 15.75" x 17.7"	Erowa Automated Robotic Cell
Charmilles Roboform 550 EDM	23.5" x 15.75" x 17.7"	Erowa Automated Robotic Cell
Sodick AG 660L	23.6" x 16.5" x 16.5"	Erowa Automated Robotic Cell
Sodick AG 660L	23.6" x 16.5" x 16.5"	Erowa Automated Robotic Cell
Erowa ERS Robot		180 Electrode capacity
Erowa ERD Robot		300 Electorde capacity

EDM Carbon Cutting Department

Equipment	X Y Z	Features/Notes
Mikron UPC 600 Vario 5-Axis		Erowa Automated Robotic Cell 20,000 RPM
HAAS TL-1 Lathe		2,000 RPM
Erowa Multi robot		360 Electrode capacity
Mikron 400U-LP 55-Axis		5 Axis, Erowa Automated Cell 40,000 RPM

Grinding Department

Equipment	X Y Z	Features/Notes
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Okamoto 20" x 40" Water Grinder
(2 ea) Okomoto 12 x 24 Water Grinders
(6 ea) Mitsui 6 x 12 Dry Grinders
(4 ea) Wasino 6 x 18 Dry Grinders
Okomoto 6 x 18 Dry Grinder

Erowa Workholding Systems Department

(24 ea) Universal Power Chuck (UPC) Pallets
(20 ea) Integrated Tooling System (ITS) Pallets
(1200 each) 2"x 2" ITS Standard Brass Electrode Holders

CMM Department

(2 ea) Brown & Sharpe Xcel 7-10-7 Coordinate Measuring Machines (CMM)

Prep and Component Department

Equipment	X Y Z	Features/Notes
(2) Haas VF4 VMC	50" x 20" x 25"	8,000 RPM 40 tools
(1 ea) Haas VF-3 VMC	40" x 20" x 25"	20 Tools, 8,000 RPM
(3) Haas VF2 VMC	30" x 20" x 20"	8000 RPM
(1) Haas Mini Mill 2	16" x 24" x 20"	8,000 RPM 40 Tools

Technology and CAD/CAM Software

Siemens NX Unigraphics Design Software
Pro-Engineer Creo 2 Design Software
Moldex3D Fill Simulation Software
PTC Windchill Business Process Management Software
Powermill 2015 CAM Software
Powershape 2015 CAD Software
Surfcam CAD/CAM Software
Esprit CAD/CAM Software
Erowa JMS Pro-Job Management System
Infor ERP XA Power-Link Administrative Software