

## 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

## True Cut 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
(3 ea) HAAS VF-2		40 Taper, 3 Axis, 8.1k RPM	20 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 Electrode 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	
Okamoto 20" x 40" Water Grinder			
(3 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
(2 ea) OKK PCV 55 VMC	40" x 22" x 20"	20 Tools, 8,000 RPM
(2) Haas VF2 VMC	30" x 20" x 20"	8000 RPM
OKK PCV 40 VMC	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