

## CAD/CAM

Quantity	Equipment
8	CATIA V5 licenses
8	Enovia Viewer licenses for Catia
4	Unigraphics V4 licenses
6	NX4 Viewer licenses for Unigraphics
5	Solid Works licenses with edrawings
5	CADKEY/Autocad PC Workstations
7	Cimatron licenses
7	WorkNC licenses
5	Gibbscam licenses
1	Smirt NC license
1	HP - C180 UNIX workstation running Gerber/Matra
1	ShopLink DNC Systems
1	Full FTP site capabilities
1	HP 1055CM 36" wide color plotter

## Milling Machines

Quantity	Equipment	Work Area
1	2004 FPT Area ME CNC boring mill	472"x 137"y 60"z
1	2008 Niigata horizontal machine center with pallet changer	1000mm x 950mm x 850mm
2	Johnford DMC 1200H CNC mills with 12,000 RPM	47"x 35.5"y 30"z
2	Mazak Nexis 510-C with pallet changer	40"x 20"y 22"z
2	Mazak 250D CNC mills	70"x 25"y 25"z
1	Dah Lih CNC mill	82"x 32"y 27.5"z
1	Droop & Rein LSAF 130ke Fidia CNC, tracing, & digitizing	120"x 60"y 40"z
1	Giddings Lewis CNC DiMill	172"x 72"y
1	Giddings Lewis CNC mill	132"x 84"y 25"z 36"w
1	Giddings Lewis CNC DiMill	72"x 48"y
1	Cincinnati #5 vertical mill	
1	Cincinnati #4 vertical mill	
1	Cincinnati #3 horizontal mill	
1	Kearney Trecker #3 horizontal	
2	Bridgeport mills	
4	Willis Microcut jig bore mills with digital readouts	
1	Lagun mill with digital readout	

## Drill Presses

Quantity	Equipment	Size
1	Wilton floor model	
1	Fosdick floor model	
1	Cincinnati Bickford square column power feed	21" column
2	Giddings/Lewis Bickford square column power feed	24" column
1	Fosdick square column power feed	25" column
2	Carlton radial drill presses	96" arm
2	Carlton radial drill presses	60" arm
1	Carlton radial drill press	48" arm
3	Cincinnati Bickford radial drill presses	48" arm

## QC Department

Quantity	Equipment
1	Mitutoyo CHN 1612-30 CMM 120" x 60" y 40" z
1	Romer 10ft Remote Scanning Arm
1	40" digital height gauge
1	24" digital height gauge
1	12" digital height gauge
1	Complete sets of gauge pins and gauge blocks

## Handling Equipment

Quantity	Equipment
1	30-ton overhead crane w/ 15-ton auxiliary
3	25-ton overhead crane w/ 10-ton auxiliary
3	20-ton overhead crane with 10-ton auxiliary
4	10-ton overhead cranes
3	5-ton overhead cranes in die bays
1	8,000 lb. Lift-truck
1	12,000 lb. Hyster Lift-truck
1	5,000 lb. Yale Lift-truck
1	12,000 lb. Allis Chalmers hi-lo

## Tryout Equipment

Quantity	Equipment	Bed Size	Shut Height	Other
1	1,350-ton Danly press*	100" x 200"	65" max	rollout bolster w/ 56" coil feeder system
1	1,300-ton Clearing 800/500-ton double action straight side press	100" x 180"	90" max	rollout bolster w/ Perfecto 72" coil feeder system
1	900-ton Hamilton straight side press w/ bolster*	100" x 180"	65" max	
1	800-ton Clearing straight side press	66" x 120"	51" max	rollout bolster
1	600-ton Verson straight side press	66" x 132"	56" max	rollout bolster
1	450-ton USI Clearing straight side press*	126" x 81"	48.5" max	w/ 56" coil feeder
1	300-ton Bliss straight side press*	120" x 60"	48.5" max	
1	250-ton USI Clearing straight side press	48" x 132"	48.5" max	w/ Littell feeder
1	250-ton Verson gap frame press	43" x 97"	54" max	w/ rollout bolster
1	200-ton Clearing straight side press*	48" x 78"	54" max	
1	200-ton Clearing gap frame press*	84" x 48"	54" max	
1	200-ton Verson straight side press	48" x 72"	54" max	

\* Press located at TSG Tryout facility

## Grinders

Quantity	Equipment
1	Mattison 48" rotary grinder
3	Okamoto 6" x 18" surface grinder
1	Gallmeyer 10" x 30" hydraulic surface grinder
1	Gallmeyer 12" x 24" hydraulic surface grinder
1	Gallmeyer 12" x 36" hydraulic surface grinder
1	Gallmeyer 16" x 72" hydraulic surface grinder
1	Medina end grinder
1	Abrasive 18" knee grinder
1	Powermatic cut-off

## Cut-Off Equipment

Quantity	Equipment
2	Marvel 81A universal band saw
1	Leten contour band saw with 20" throat
1	Walker-Turner band saw with 18" throat
1	Tannewitz band saw with 36" throat
1	Cincinnati Shear

## Shop Size

Main Facility - Approx. 77,000 sq. ft.
Tryout Facility - Approx. 25,000 sq. ft.