

TSG
Tooling Systems Group

ETS
Engineered

Engineered Tooling Systems, Inc.
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Equipment List

CAD/CAM

Quantity	Equipment
3	CATIA licenses
1	Work NC license
1	Unigraphics license
3	Unigraphics viewer licenses
1	MasterCam license
9	Enovia Licenses

Milling Machines

Quantity	Equipment	Work Area
1	Dah Lih DL-MCV 2100 CNC mill	82"x 32"y 27.5"z
1	Daewoo DMV-500 CNC mill	40"x 19"y 20"z
1	Mazak Nexus 510C CNC mill	41"x 20"y 20"z
1	Johnford DMC 1200H CNC mill	47"x 35"y 30"z
1	Cincinnati No. 550 vertical mill w/ digital readout	94"x 20"y
1	Willis Microcut 1050 w/ readout	50"x 10"y
1	Milwaukee #2 vertical mill	56"x 12"y
1	Cincinnati horizontal mill	54"x 12"y
3	Bridgeport mills w/ readout	48"x 9"y
1	Vision Wide Bridge Mill	40" x 160" Bed
1	Vision Wide Bridge Mill	98" x 98" Bed

Wire EDM

Quantity	Equipment	Work Area
1	Charmilles Robofil 290 AWT wire EDM	15.75"x 9.85"y 8"z

Handling Equipment

Quantity	Equipment
1	15-ton overhead crane
3	10-ton overhead cranes
1	Hyster 150A lift truck w/ 15,000 lb. capacity
1	Allis Chalmers C40X lift truck w/ 4,000 lb. capacity
1	Crown E-Z lift w/ 1,500 lb. capacity

QC Department

Quantity	Equipment
1	Brown & Sharpe 26"x 39"y 18"z w/ PC - Demis software
1	18" height gauge
1	14" height gauge
2	12" height gauge
1	Complete set of gauge blocks
1	Complete set of gauge pins
1	White Light Scanner
1	40" x 82" Brown & Sharpe CMM

Drill Presses

Quantity	Equipment	Size
1	Fosdick square column power feed	24"
1	Carlton radial arm drill	9" column 48" arm

1	Carlton Drill	22" colum 96" arm
1	Cincinnati Bickford radial press	12" column 60" arm
2	Cleerman Drill Press	

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	900-ton Hamilton straight side press w/ bolster*	100" x 180"	65" max	
1	800-ton USI Clearing straight side press	72" x 156"	96" max	w/ 48" coil feeder
1	450-ton USI Clearing straight side press*	81" x 126"	48.5" max	w/ 56" coil feeder
1	300-ton Bliss straight side press*	60" x 120"	48.5" max	
1	250-ton Verson gap frame press	60" x 120"	54" max	
1	200-ton Verson straight side press	53" x 120"	35" max	

* Press located at TSG Tryout facility

Grinders

Quantity	Equipment
1	Gallmeyer 450 12" x 24" hydraulic feed grinder
1	Gallmeyer 280 8" x 24" hydraulic feed grinder
1	Clausing 4002 5" x 10" dry grinder
1	Okomoto 6" x 18" dry grinder
1	GMN end grinder
1	Gallmeyer 12" x 36" cylindrical grinder
1	20" x 48" Thompson Surface Grinder

Cut-Off Equipment

Quantity	Equipment
1	GROB 4V-18 band saw w/ 11" throat
1	Marvel cut-off saw w/ 10" throat
1	Parma cut-off saw w/ 16" throat
1	Wallace Speedycut 8995 cut-off saw w/ 10" throat

Miscellaneous

Quantity	Equipment
1	Miller TIG Welder
1	Trinco 36/BP media blasting cabinet
1	LeBlond 42" lathe
1	Miller MIG Welder
1	Flame hardening table & torch

Shop Size

Main Facility - Approx. 23,000 sq. ft.
Tryout Facility - Approx. 25,000 sq. ft.