



ZALA MACHINE CO., INC.

Precision CNC Machining | Hillsborough, New Jersey | Founded 2002

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ITAR Registered | CAGE Code 351Y3 | Registered in SAM.gov

Zala Machine Co. is a family-owned precision machine shop in Hillsborough, New Jersey, founded in 2002 and run with three generations of the family on the floor. We manufacture components to customer drawings in quantities from a single piece to production runs, reverse engineer obsolete parts from the worn original, repair and rebuild industrial components, and take on emergency machining when equipment is down.

CAPACITY

CNC turning	32" dia x 60" long 14" dia x 83" long
Vertical turning	to 60" diameter, two vertical turret lathes
Horizontal turning	43" x 170" between centres 26" x 160" 26" x 120"
CNC milling	157" x 40" x 70" 60" x 30" x 30" with 4th axis
5-axis mill-turn	24" diameter x 60" long
Horizontal boring	96" x 40" x 70"
Deep hole drilling	gundrilling to 4" dia x 96" deep; through-coolant deep hole drilling on all CNC machines; trepanning in house
Bore honing	.060" to 26" diameter, to 120" long 32 to 8 RMS $\pm .0001$ "
Line boring	to 20" diameter over roughly a 50" span
Grinding	OD / cylindrical and surface
Welding and fabrication	machined after welding
Lifting	to 10 tons

MATERIALS

Carbon and alloy steel	1018, 1020, 4140 and 4140 HT
Stainless steel	300 series, 400 series, 15-5 PH and 17-4 PH
Aluminum	wrought and cast grades
Brass and bronze	bar and cast
Cast iron	grey and ductile
Specialty alloys	Inconel and titanium

Other similar materials on request. Customer-supplied material accepted.

COMPLETE PARTS

Parts leave here finished. Where a drawing calls for an operation we do not run in house, we source it, schedule it and carry it on the same purchase order, and the part returns to us for final machining and inspection before it ships.

Outside operations: heat treating | nitriding | plating and hard chrome | EDM | gear tooth cutting | dynamic balancing | surface finishing and specialty coatings

TOLERANCES AND INSPECTION

Under .001" standard. Keyence XM-5000 portable CMM, profilometer and full manual gauging. Material certifications, dimensional inspection reports and first article inspection on request. NDAs signed.

HOW WE QUOTE

Send the drawing package: PDF, DWG, DXF, IGES, STEP or a photo of a hand sketch. RFQ reviewed same or next business day. Quotes in under a day for a single part and up to a week for a large drawing package. No minimum quantity; production runs into the thousands.

Build to print machining | Extruder and polymer processing components | Industrial gearbox repair | Shaft manufacturing