



ISO 9001:2008



Ranor Division Enhances Operation with Waterjet and Lathe

HYUNDAI-WIA Turning Center

MODEL L400LMC with FANUC 21i-TB CNC

Max Turning Dia. - 535 mm (21.1")
 Max Turning Length - 2100 mm (82.7")
 Spindle Speed - 116 ~ 2,000 rpm
 Live Turret Tool for drilling and end milling



FLOW Mach 3 Waterjet

MODEL 4020b (CNC)

Table Width - 6.5 feet (78")
 Table Length - 13 feet (132")
 Accuracy - +/- .0015" per 3 feet
 Repeatability - .003"



Due to multiple customer requirements and project needs, TechPrecision is proud to announce that our Ranor division has added both waterjet and lathe equipment to its advanced fleet of processing equipment.

By deploying waterjet technology, we add the capability of processing complex parts to tight tolerances quickly, and in many cases can avoid pre-machining altogether. This compresses delivery times and reduces costs to our customers while maintaining or improving surface finish condition of processed parts.

In addition, bringing our turning work in-house provides a greater level of quality control, reduces dependence on subcontractors, and provides tighter control of delivery schedules.

The direct benefits to our customers:

- **Highest level of quality and traceability**
- **Compressed delivery schedules**
- **Reduced pricing**
- **Turn-key service offering**
- **Tighter control of projects reduces risk**

TechPrecision is your global partner in large-scale manufacturing solutions



TechPrecision Corporation

3477 Corporate Parkway - Ste 140
Center Valley, PA 18034

Phone: 484-693-1700
 Fax: 484-205-2005
www.techprecision.com



Fabrication Shop Capability Summary

<u>Cutting</u>	Carbon steel:	Up to 22 inches thick
	Stainless steel:	Up to 7 inches thick
	Robotic:	Five axis
	Flow Waterjet:	6.5' x 13' table, .0015" accuracy
<u>Forming</u>	Three press brakes:	Up to 30 feet x 1,500 tons
	Three rolls:	Up to 3 inches thick x 12 feet wide
<u>Fabricating</u>	Maximum weight:	100 tons
<u>Welding</u>	Processes:	MIG, TIG, FCAW, SAW, GMAW
	Positioning:	Up to 35 tons
	Robotic welding:	Five axis, up to 5 tons
<u>Stress Relief Oven</u>	Maximum size:	10 feet x 11 feet x 35 feet
	Maximum weight, temp:	70 tons, 1500°F
<u>Blasting</u>	Fully enclosed blast room with grit recovery and movable cart	
<u>Painting</u>	Two fully enclosed paint rooms, primers and final coats to customer specification	



ISO 9001:2008

Machining Capacity Summary

Nine CNC Horizontal Boring Mills

	Six axis capability with multi-axis profiling capability
	Rotary tables
	Precision tolerances: .001 inch
	Minimum size: 14 inch cube
	Maximum size: 12 feet x 12 feet x 30 feet (larger with repositioning)
	Maximum weight: 100 tons

Seven CNC Vertical Boring Mills

	Three axis capability with multi-axis profiling
	Live axis heads
	Precision tolerances: .001 inch
	Minimum size: 14 inch diameter
	Maximum size: 240 inch diameter x 120 inch height
	Maximum weight: 40 tons

CNC Five Axis Gantry Mill

	X - Axis = 480 inches
	Y - Axis = 168 inches (192 inches between the columns)
	Z - Axis = 120 inches (Ram stroke)
	Up to 312 inch x 168 inch diameter under the rail
	Two axis detachable, programmable milling head
	Maximum weight: 100 tons

Ancillary Machining Department

	HYUNDAI-WIA Turning Center L400LMC with FANUC 21i-TB CNC
	CNC vertical machining center (30 inch x 60 inch)
	CNC Chucker style lathe (10 inch chuck)
	CNC — Bridgeport
	Automatic surface grinder (18 inch x 24 inch)
	Full complement of tooling and attachments

Assembly, Inspection, Testing and QA Summary

<u>Dimensional Inspection</u>	Mechanical and laser
<u>Mechanical Assembly</u>	Shop assembly (up to 100 tons) and clean room assembly (up to 5 tons)
<u>NDE</u>	Radiography, ultrasonic (flaw detection and thickness gauging), magnetic particle, liquid penetrant, and visual weld inspection
<u>Testing</u>	Load testing (up to 400 tons,) hydrostatic pressure testing, helium leak vacuum testing (10 ⁻⁹), and complete system performance testing
<u>Quality</u>	ISO 9001:2008, ASME Code Sec III-Div 1, Sec III-Div 3 (N, NA NPT, NS,) Sec I/VIII-Div 1, B31.1 (S, PP, U), NQA-1 compliant, nuclear safety related, MIL-Q/I/STD, NAVSEA, B1(China), KGS



TECHPRECISION
CORPORATION

TechPrecision Corporation
3477 Corporate Parkway - Ste 140
Center Valley, PA 18034
Phone: 484-693-1700
Fax: 484-205-2005
www.techprecision.com