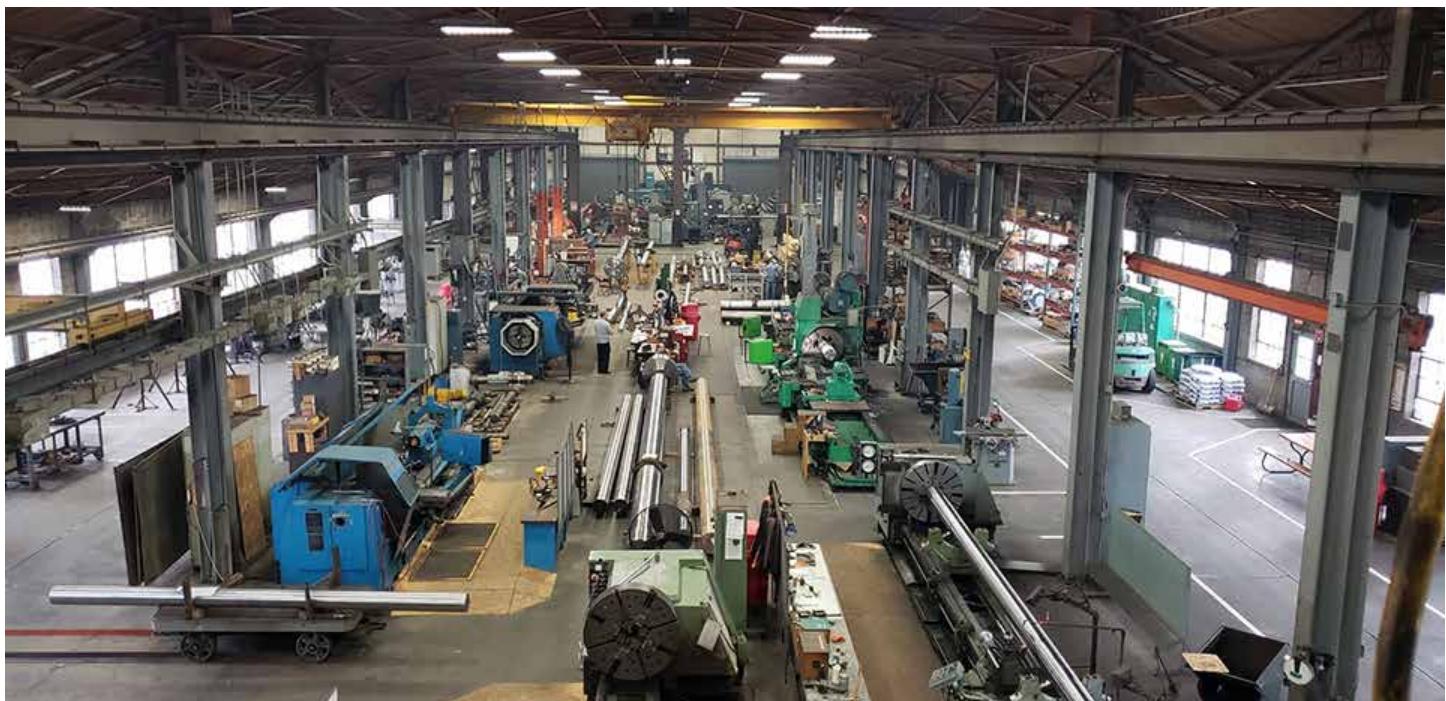


Armor Contract Manufacturing, Inc.  
dba



# ARMOR ACUBAR



We offer a wide variety of machining capabilities as well as the expertise of our trained and highly experienced staff. Our 40,000 sq. ft. manufacturing building is safe, clean, and organized for efficient parts flow and throughput. We specialize in OEM & Aftermarket Machined Components and can duplicate problematic parts from samples or sketches for obsolete equipment.

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Our ability to hold close tolerances and unique large-part capabilities have made us an ideal vendor for energy (including nuclear, hydroelectric, and oil and gas), food & chemical processing, agriculture, plastics, die casting, aerospace, defense, utility and aluminum extrusion industry applications.

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1055 North Shore Drive, Benton Harbor, MI 49022

269-927-3000 | [Sales@ArmorContract.com](mailto:Sales@ArmorContract.com)

[www.ArmorContract.com](http://www.ArmorContract.com)





# ARMOR ACUBAR



**American Systems Registrar, LLC**, a provider of third-party system registration and accredited by the ANSI National Accreditation Board attests that:

## **ARMOR CONTRACT MANUFACTURING, INC. DBA ARMOR ACUBAR**

**1055 NORTH SHORE DRIVE  
BENTON HARBOR, MI 49022**

with a scope of:

### **CONTRACT MACHINING SERVICES SPECIALIZING IN LARGE PRECISION TURNING**

has established a quality management system that is in conformance with the International Quality System Standard

**ISO 9001:2015**

ASR Certificate Number:	3020
Date of Certification:	June 4, 2024
Date of Certification Expiration:	June 3, 2027
Date of Initial Registration:	July 13, 2006
Revision:	
Re-Issue Date:	

\_\_\_\_\_  
**President**

**CERTIFICATE OF REGISTRATION**

# Shafts



**Hydroelectric Turbine Shaft**



**414.75" long Hydroelectric Turbine Shaft  
for retrofit**

# Shafts



## **Electric Rotor Shaft**

End face square & flat with 0.0005"



## **Electric Rotor Shaft**

Bearing diameters 0.0005" tolerance & cylindricity

# Shafts



**Electric Rotor Shaft  
Fully Assembled**



**AISI-4330M Splined  
Shafts for Energy Sector**



**Gas Turbine  
Generator Shaft**

10.25" diameter x 319" oal  
Straight withing 0.002" TIR

# Shafts



12" diameter x 446" long  
shaft for friction  
welding machine



**Draw Works Shaft**



AISI-4330M Splined  
Shafts for Energy Sector



**Drumshaft**

# Shafts



Press Shaft with  
Induction hardened ppines



**Spline Milling  
on Long Shaft**



**Derive Shaft with  
internal keyway**



**Drumshaft**

# Shafts



**1000T Top Drive  
Stem Shaft**



**750T Top Drive  
Stem Shafts**



**441" Long Screw Shaft  
Assembly**

Fabricated from  
7 individual components



Screw shaft assembly  
in the 6-axis mill for keyways -  
including one 390"  
long keyway

# Shafts



**Fan Shaft**



**Fan Shaft  
for adjustable  
pitch blades**

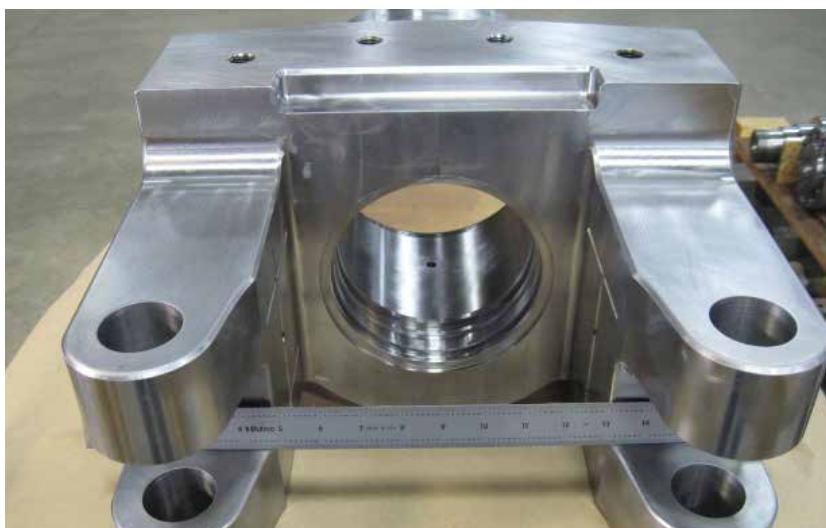
# Shafts



**Oil & Gas  
splined drive  
shafts**



**Oil & Gas  
subsea  
connector**



**Oil & Gas  
Top Drive  
jaw component**

# Shafts



**Oil & Gas  
sprocket  
drive shaft**



**Oil & Gas  
Drum Shaft**

# Shafts



**1000T Top Drive  
Stem Shaft**



**750T Top Drive  
Stem Shafts**



**441" long screw shaft  
assembly**

Fabricated from  
7 individual components



Screw shaft assembly  
in the 6-axis mill for keyways -  
including one 390"  
long keyway

# Shafts



Testing program for  
sub sea configuration  
optimization



**Two-platen die cast tie bar**  
featuring close tolerance  
groove positions



6-pc fabricated  
mixing screw shaft  
for carbon paste processing



16rms - 0.4Ra um  
polished surface

# Custom Industrial Machining



Replacement die carrier  
for aluminum  
extrusion press



9000T steel nut for  
plastic injection  
molding machines

# Custom Industrial Machining



Trying nuts on tie bars to assure fit & measuring the clearance with an indicator

Tie bars & nuts ordered in sets are tried on to verify fits & a ledger is sent with shipment. All parts serialized & traceability maintained throughout the manufacturing process

Reversed engineered machine adjustment screw, nitride



Measuring splines over wires



Repair of Ring Roll machine components

# Custom Industrial Machining



Machining Camshaft



Measuring groove locations with laser



Final inspection of precision configuration profile



Axial roll sleeve with laser hardened ID tapers

# Custom Industrial Machining



Machining Camshaft



Die cast tie bar



Steel Mill Rolls



Forge press bars

# Custom Industrial Machining



Tunnel boring tube



Die cast tie bar



Penetrator bomb bodies



Manganese bronze nut

# Custom Industrial Machining



Steel forging  
press tie rod  
40' & 20T



Top drive jaw clamps



Go spline gage on  
machined part

# Custom Industrial Machining



Nitrided plastics tie bar

# Custom Industrial Machining



8000T forge press column,  
40,000 lbs

# Custom Industrial Machining



Down hole drilling tube

# CNC Lathes



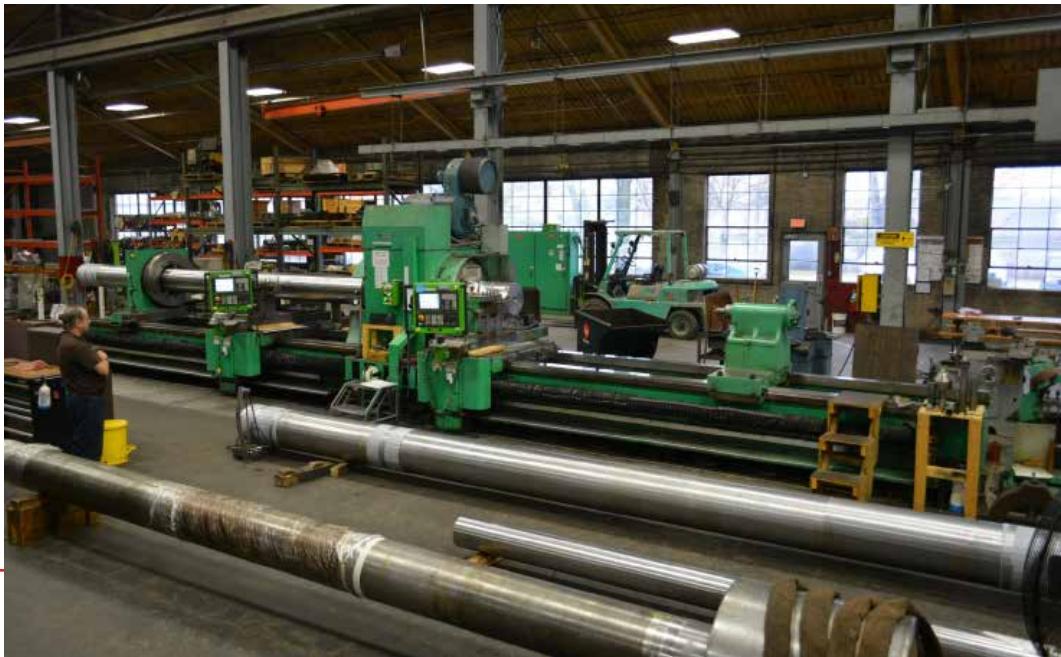
## **Large CNC Lathe Machining Capabilities**

Up to 48" diameter x 42' long | 40,000 lbs per piece | Live Tooling



**L&L 5-Way 1 meter x 6 meter capacity**

# CNC Lathes



**MTR Ravensburg 2015 retrofit**



**MTR Ravensburg**

Hollow Center-Drive Spindle CNC lathe with 3 tool stations.  
Capable of machining bars 20" diameter x 40" long  
(40,000 lbs. max) Control Retrofir 2015.

Machine Tie Bar with Center Headstock CNC Lathe

# CNC Lathes



## **Gurutzpe Model B1400**

Heavy Duty 5-Axis CNC Lathe  
63/48 x 567" swing over carriage 40" distance  
between centers 47' live tooling



Testing a nut on the bar while in the lathe

# CNC Lathes



## **Gurutzpe Model B1400**

Heavy Duty 5-Axis CNC Lathe  
63/48 x 567" swing over carriage 40" distance  
between centers 47' live tooling



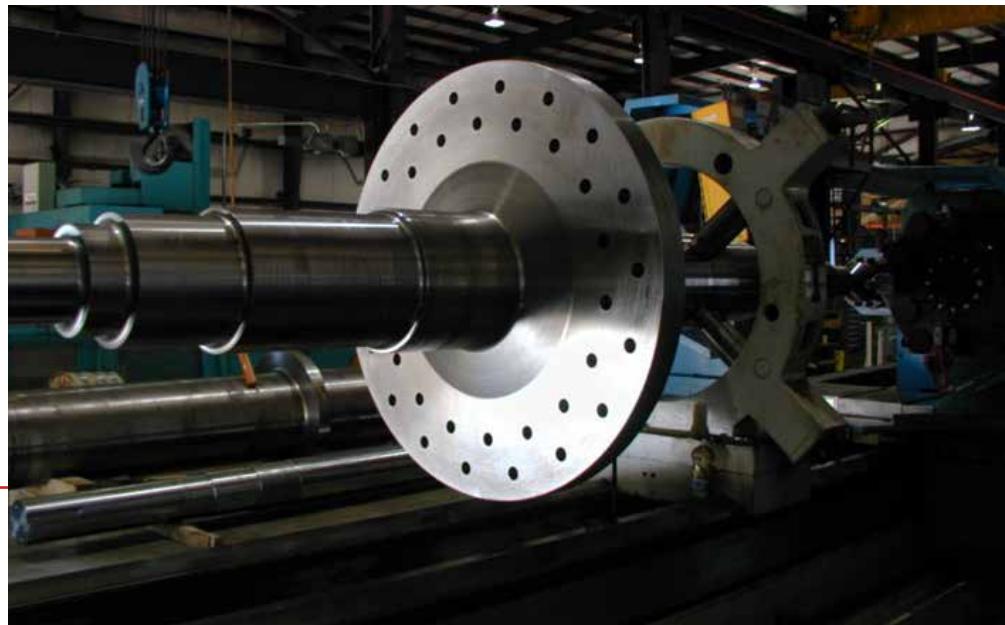
## **Gurutzpe Model B1400**

Electric Rotor Shaft with shrink fit bushing

# CNC Lathes



Shortening machined area for rigidity  
with Center Headstock CNC Lathe

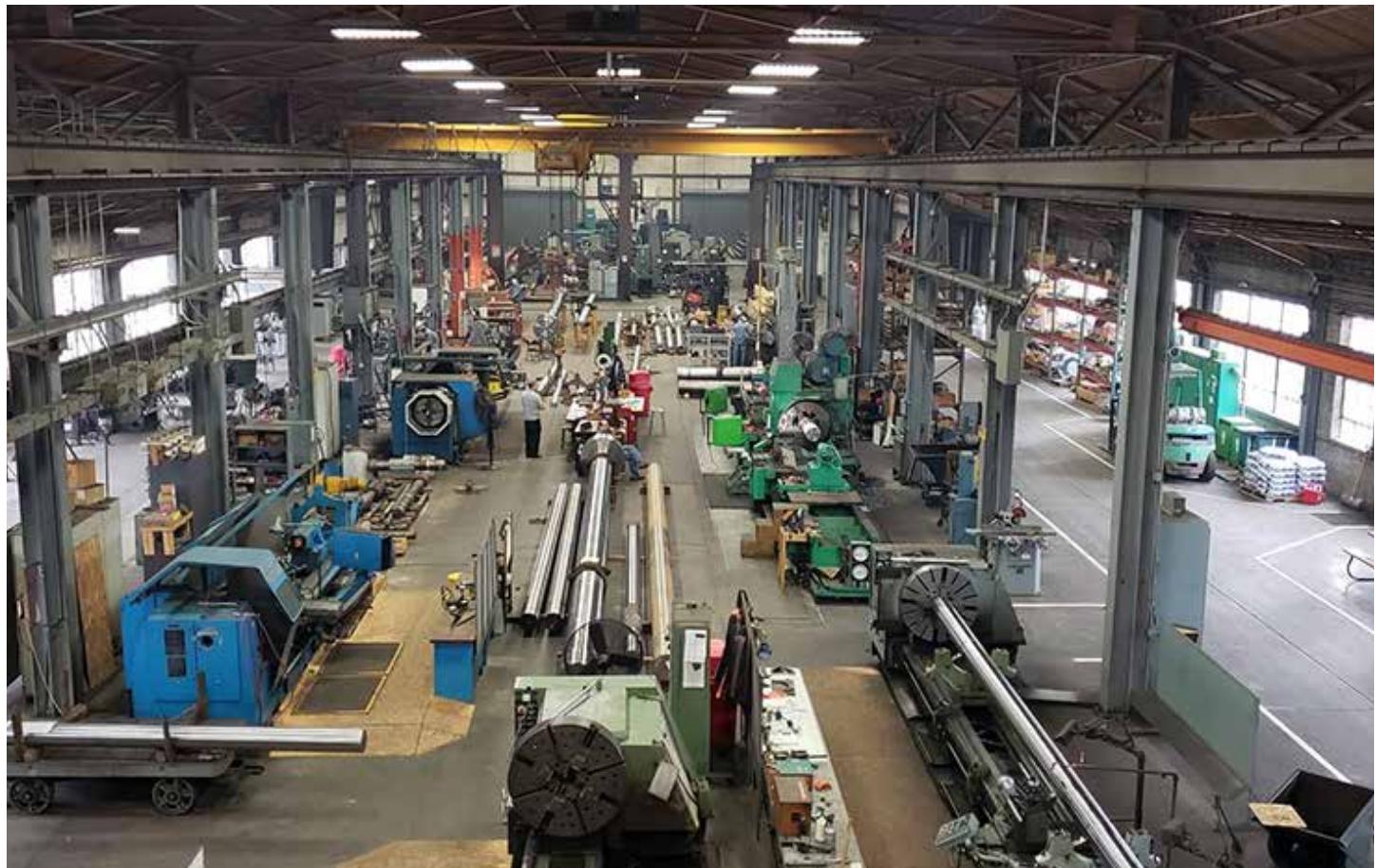


Drilling Flange holes with live tooling CNC lathe

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