



Hudson Pump & Equipment

A Division of Tencarva Machinery Company

**REPAIR CENTERS
FIELD SERVICE
FABRICATION SERVICES**

24/7/365
EMERGENCY NUMBER
(863)665-7867



**TENCARVA MACHINERY
SERVICE ORGANIZATION**



Repair Network Map

FIELD SERVICE AND SHOP REPAIR

- ✓ System Suitability Review
- ✓ Pick and Delivery
- ✓ Cutting and Machining
- ✓ Balancing Services
- ✓ Boring and Milling Service
- ✓ Blasting and Resurfacing
- ✓ Video Scoping
- ✓ Laser Alignment
- ✓ Welding & Fabrication



Quick Response & Local Sites

The 14 repair service centers share expertise and technologies to keep your equipment in top working order.

Repair Service Centers



Tencarva has three large repair facilities to handle large equipment located in Lakeland, Fla., Macon, Ga. and Nashville, Tenn.

Service Technicians Repair Pumps and More...

- | | |
|---------------------------------------|----------------------------|
| • Air operated double diaphragm pumps | • API Pumps |
| • Centrifugal pumps | • Liquid ring vacuum pumps |
| • Vertical turbine pumps | • Mixers |
| • Split case I double suction | • Rotary vane pumps |
| • Mag drive pumps | • Submersible pumps |
| • Metering pumps | • Gearboxes |
| • Vacuum pumps | • Multistage pumps |
| • Blowers | • Most rotating equipment |
| • Boiler Feed Pumps | • Condensate Pumps |



*ITT / Goulds requires third party audits for Authorized Repair** See back cover to learn more about the Tencarva Quality Program. Partners.

*** Service technicians document repair data, repair photos, and testing videos in digital format which is retained for up to 10 years.

Field Service



Certified Technicians with Vehicles

We provide equipment repair at your facility, including removal, installations, start up, troubleshooting, and more.

Laser Alignment



When shafts or sheaves are misaligned, seals, couplings, and belts can become damaged.

Replacing the damaged parts solves the symptoms; however the root cause is often misalignment.

Laser alignment is the best solution for correcting these issues.

Gearbox Repair



We provide improved gearbox operational life-cycle by enhancing gears, bearings, seals, and other components.

Whether you need a solution to an existing problem, technical expertise, new gearbox or on-site services you can count on Tencarva Machinery Company to be your gearbox engineered solutions provider.

Impeller Balancing



Impeller Balancing

The Tencarva Repair Network is capable of balancing rotating elements to 5000 lbs., 72 inch diameter and 12 feet in length. All balancing machines are calibrated and certified.



Proper balancing will substantially reduce repairs and increase the useful life of your machinery.

Every impeller balanced by a Tencarva Repair Center, at a minimum, conforms to a G 1.0 specification and *(upon request)* comes with a **balance report certificate** ensuring that the impeller is within the exact specifications. If even higher calibration balancing is required our equipment is capable of balance as close as a 4W/N. (4 times the weight over the service speed.)

Why Balancing is important . . .

Unbalanced equipment vibrates, which leads to material fatigue and often catastrophic failure. Tighter balancing tolerances reduce vibration levels, and add life to bearing and wear rings.

Machining Capabilities



Machining Services

Our specialists can provide you custom machining with exacting accuracy and precision. We machine carbon steel, stainless steel, and tool steel. No job is too big or small for us.

Submersible Pump Repair

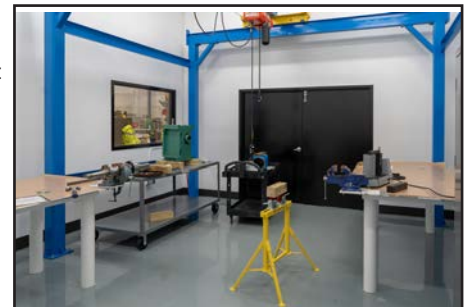
Our submersible repair capabilities include motor core testing, electrical diagnostics, up to 400HP VFD testing, lathes, presses, and a painting booth area.



Clean Room Repair*

We offer certified clean room expertise in clean room assembly of gearboxes and bearing installations.

- Bearing Installations
- Gearbox Assembly
- Controlled Environment
- Positive Pressure Air
- 700 ft² climate controlled



* Clean room repairs are available at Lakeland, Fla. and Macon, Ga.

Lifting Capabilities

Cranes capable of moving up to 7.5 tons allow us to safely move the heaviest of equipment between our specialized workstations.



Specialized Coatings

The Benefits of Specialized Coatings . . .

Specialized coating, such as Belzona or Enecon, will extend the life of your rotating equipment.

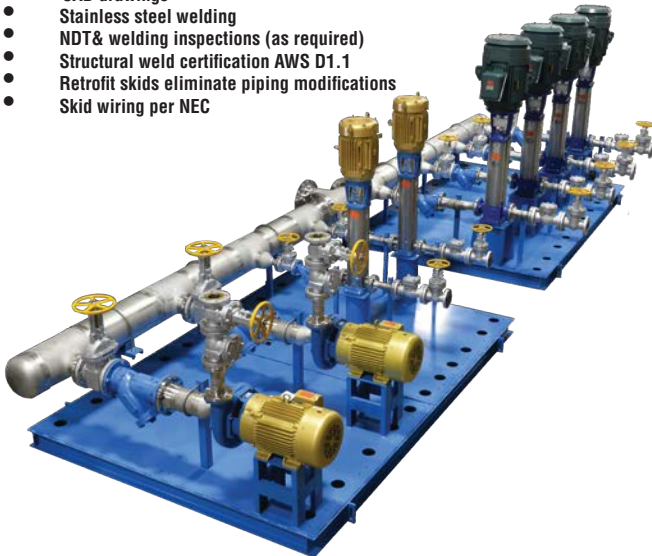
Special coatings will provide protection in the following cases:

- Abrasive service
- Corrosive chemicals
- De-ionized water
- Cavitating impellers
- Wear inside casings
- Many more...



Fabrication Services

- CAD drawings
- Stainless steel welding
- NDT& welding inspections (as required)
- Structural weld certification AWS D1.1
- Retrofit skids eliminate piping modifications
- Skid wiring per NEC



Whether you need a booster system, chemical dosing system, duplex multi-pump skid or any other equipment package, we can fabricate custom equipment packages to fit your exacting specification.

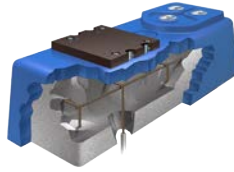
Baseplate Replacement

Baseplate Replacement . . .

Repairs to conventional concrete foundations are costly, labor-intensive and time-consuming. Moreover, acid-proofing foundations for corrosive pumps is difficult and prone to repeat failure.

Why we should be replacing your damaged baseplates. . .

Polymer concrete bases are the preferred pump foundation solution. As a chemical-resistant foundation system that is easily put into place, then filled with standard concrete, can be completely installed and operable in less than two days.



Bearing Isolator upgrades

Benefits of Bearing Isolators . . .

Bearings consistently fail prematurely due to lubrication loss and contamination.

Bearing Isolator upgrades provide permanent bearing protection on pumps and motors - increasing reliability and maximizing uptime.



Mechanical Seal Repair

Mechanical Seal Repair . . .

Mechanical seals play a critical role in the operation of many pumps and other rotating equipment. When they fail it can become a hazardous, and costly ordeal.

Through our partnership with **John Crane**, we have the resources to rebuild mechanical seals and have your equipment operational for less cost than a new replacement seal.





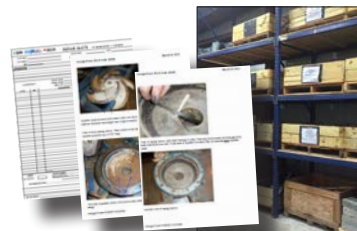
Quality You Can Trust!



Our 15,000 Sq.ft. Repair Facility located in Macon, GA.



Quality Results
Fast Returns
OEM Parts Sourcing
Satisfaction Guaranteed



TENCARVA QUALITY REPAIR PROCESS

All facilities share the same quality manual, forms, parts sourcing and procedures. Repair records, photos and history, are kept electronically. Equipment undergoes a careful and thorough evaluation process. Measurement devices are strictly calibrated regularly as part of our quality procedures. Special care is taken to prepare detailed quotations, documentation, finished products and deliveries. New parts are inspected for quality prior to use on repairs. Staging areas are organized and well identified. Our repair facilities are clutter free and safe.



Available 24/7 at your service, and ready to solve your toughest needs.
Our resources are just a phone call away.

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www.hudsonpump.com

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