

# MACTECH

## CASE STUDY

### PROJECT: MACHINE REVERSE PINION STUB SHAFT

Machine Reverse Pinion Stub Shaft on center drive gear box and avoid disassembly of the gear box.

### MACTECH'S ROLE:

Machined off 3.00" of length from the stub shaft and turned the remaining part of the shaft for a 3.00" bearing fit by removing approximately .250" on the diameter.

### EQUIPMENT USED:

- 814 Clamshell
- Counterbore Attachment
- Rack Drill



*Machining off 3.00" of length from stub shaft*

### MACTECH'S VALUE ADDED TO THE PROJECT:

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We had the experience and equipment to perform the modification without disassembling the gear box. Confidence of the customer from past experiences of solution based machining.

### ALTERNATIVE METHODS:

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The only option was to disassemble the gear box and transport to a machine shop. Would have cost customer Over \$50,000.00. We set up and performed machine work in place for under \$5,000.00.

### STEPS TAKEN TO COMPLETE JOB:

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1. Applied proper equipment and performed tooling modifications.
2. Machined shaft complete and drilled/tapped 3 holes in the end of the stub shaft
3. Worked with mechanical group to ensure proper fit during assembly



*Turning .250" diameter off stub shaft*

### CHALLENGES AND ADVANTAGES:

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Set-up on 14.00" diameter and part off 3.00" diameter stub shaft. Used standard equipment with modified tooling.

### IMPORTANT STATISTICS:

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- Parted off 3.00" off stub shaft
- Machined .250" from remaining stub shaft
- Drilled/tapped (3) 7/16" holes for bearing assembly



### RESULTS:

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Project was completed on time and saved the customer several thousand dollars — very happy customer.

### THE INDUSTRY LEADER IN FIELD & OFFSHORE MACHINING SOLUTIONS

*Mactech is the leading global provider of machining tools, technologies and on-site & off-shore solutions for the industrial machining industry.*



**EXCEPTIONAL PEOPLE AND EQUIPMENT**



**PASSIONATE CUSTOMER COMMITMENT**



**EXPERTISE FROM EXPERIENCE**

## RENT FROM MACTECH



### **COST EFFECTIVE**

Renting is less capital intensive than a full product purchase



### **HANDS-ON EXPERIENCE**

Your team gets a chance to handle the equipment before making a purchase decision



### **FLEET MAINTENANCE**

Access to a fleet of products that are maintained and ready to go

### **WE HAVE AN EXTENSIVE FLEET OF RENTAL MACHINES AVAILABLE:**

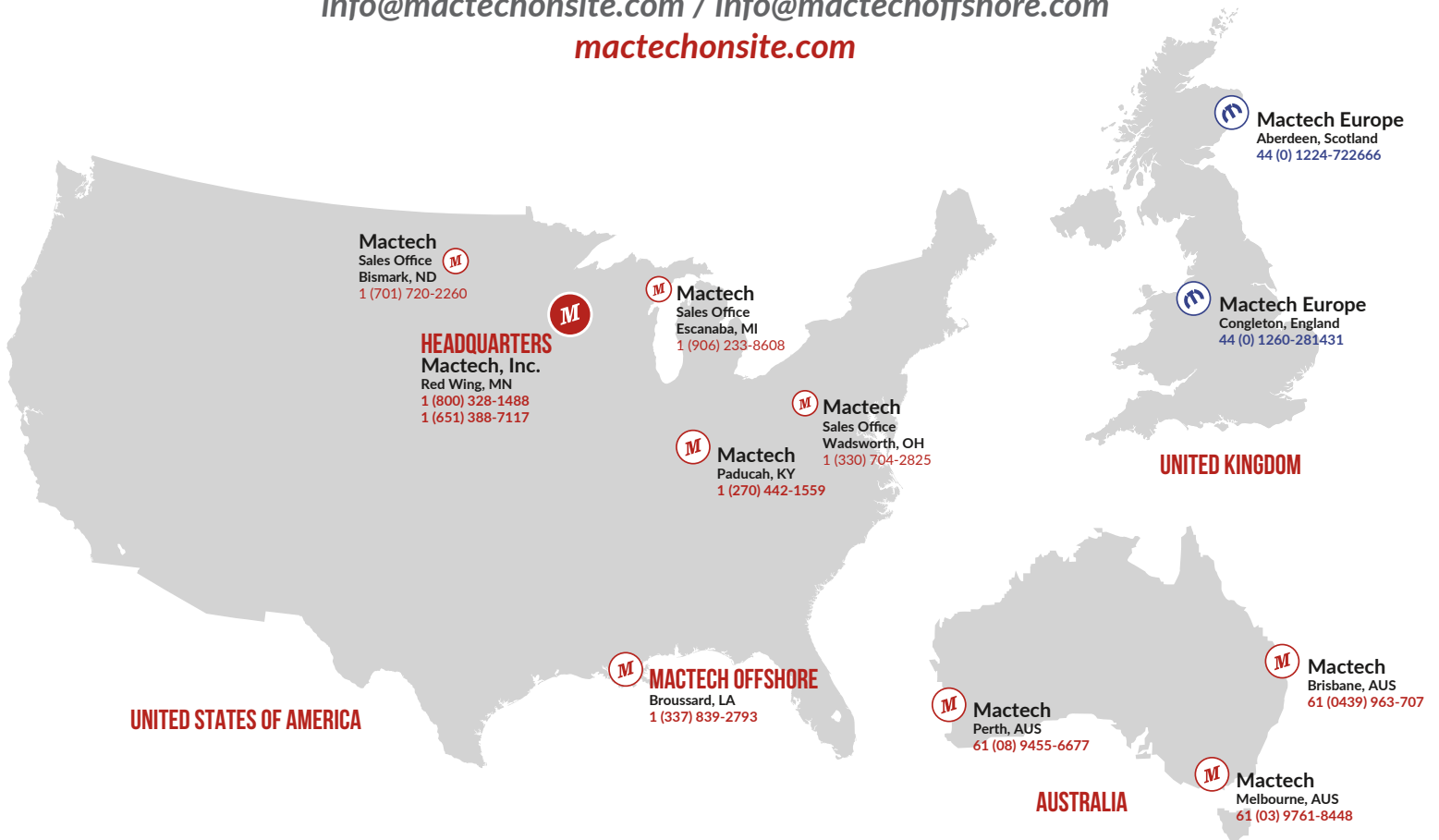
- ▶ 200+ Clamshell pipe cutting machines 2"-110"
- ▶ 40+ Diamond Wire Saws
- ▶ 100+ Portable Drills - up to morse #5 taper
- ▶ 25+ Flange facing machines 1" - 240"
- ▶ 10 Shaft lathes 1"-24"
- ▶ 30+ Line boring machines 3/4" - 10" diameter
- ▶ 50+ Portable milling machines - XYZ, gantry, boring

# MACTECH

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## MACTECH LOCATIONS

For more information on contacting you nearest sales or rental agent, contact us at:  
[info@mactechonsite.com](mailto:info@mactechonsite.com) / [info@mactechoffshore.com](mailto:info@mactechoffshore.com)  
[mactechonsite.com](http://mactechonsite.com)



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