

MACTECH

CASE STUDY

PROJECT: ON-SITE ANGLED DRILLING

Customer had a gear box that needed to be spot faced approximately 1" and 6MM holes drilled and tapped to 1/4" NPT at a 45 degree angle.

MACTECH'S ROLE:

Mactech proposed designing, fabricating, and mounting a custom fixture in order to properly position tooling to be able to drill, counterbore, and tap two holes at 45°

EQUIPMENT USED:

- Custom Fixture
- Compound Slide



Customers Gear Box

MACTECH'S VALUE ADDED TO THE PROJECT:

The ability to design and manufacture a custom fixture in-house to use existing bolt patterns on the gearbox for mounting and drilling at the proper angle.

ALTERNATIVE METHODS:

Disassemble the gear box and send the necessary components out for machining.

STEPS TAKEN TO COMPLETE JOB:

1. Engineer and fabricate custom fixture to mount on existing bolt patterns and accommodate compound cross slides
2. Mount and align fixture to the gearbox in place
3. Drill and tap instrumentation holes



Custom Fixture Mounted

CHALLENGES AND ADVANTAGES:

There was not an off-the-shelf fixture to perform this work. Mactech had to design a bolt-on fixture to locate the drill spindles on the centerline. Different tooling was purchased to meet clearance issues as well. Mactech was able to mount the fixturing using an existing bolt pattern.

IMPORTANT STATISTICS:

Specs called out holes at a 45° angle and 131mm depth.

RESULTS:

Customer was extremely happy with outcome of this project. The work was completed as quoted and came out under budget.



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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

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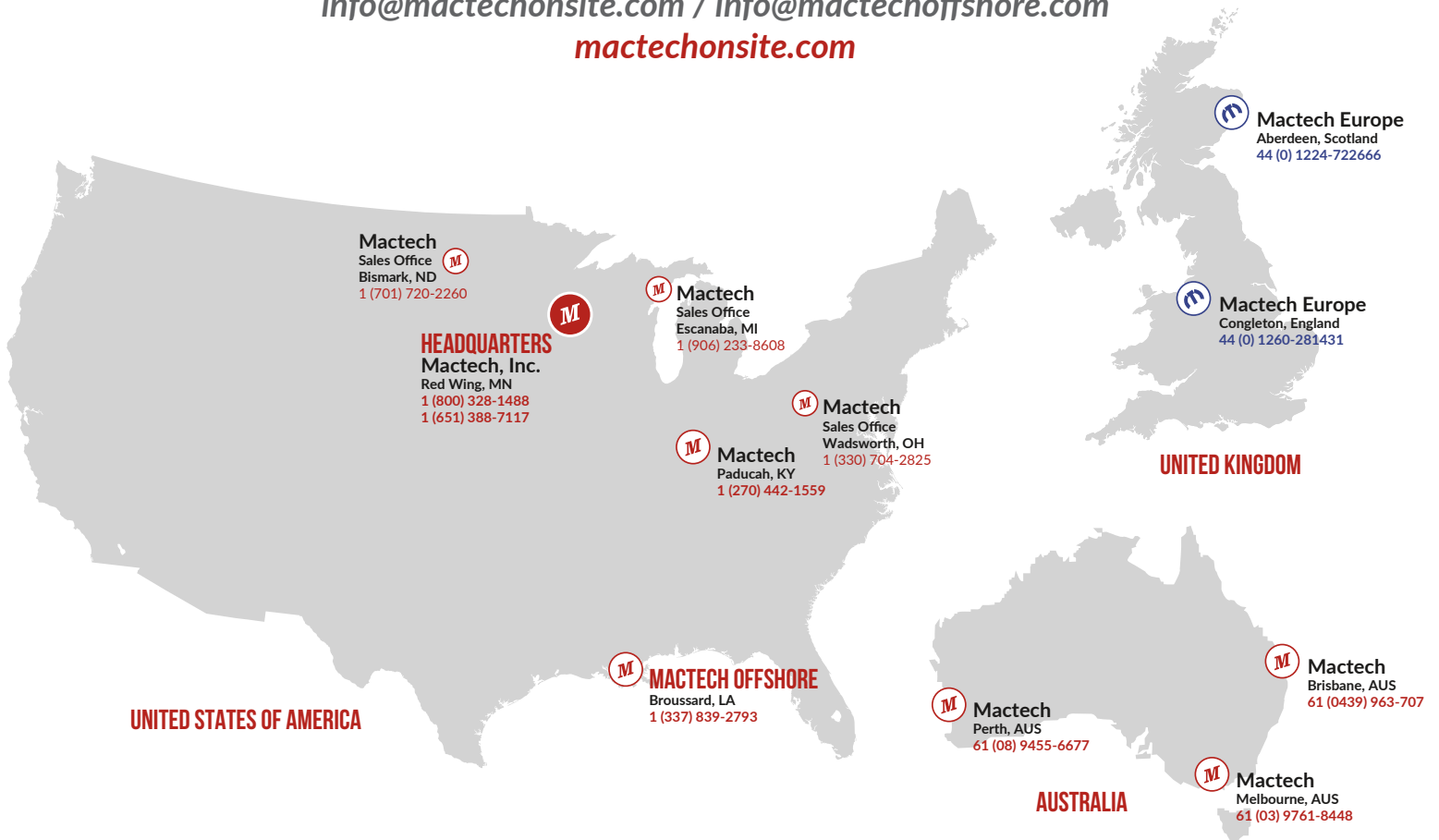
- ▶ 200+ Clamshell pipe cutting machines 2"-110"
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- ▶ 25+ Flange facing machines 1" - 240"
- ▶ 10 Shaft lathes 1"-24"
- ▶ 30+ Line boring machines 3/4" - 10" diameter
- ▶ 50+ Portable milling machines - XYZ, gantry, boring

MACTECH

CASE STUDY

MACTECH LOCATIONS

For more information on contacting you nearest sales or rental agent, contact us at:
info@mactechonsite.com / info@mactechoffshore.com
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