On-site Machining Services
Rectification of Process System Mechanical Defects

Reduce costs and save time through the use of portable machines that are designed to deliver efficient component machining operations and site repair work where dismantling of process equipment is impossible and / or uneconomical.

Use skilled and experienced technicians to solve equipment machining requirements in the most demanding of environments, delivering on-site machining services virtually anywhere, safely and with machine-shop quality.

Halliburton's on-site machining capabilities cover four application areas, including: flange facing; drilling and boring; pipe cutting and preparation; and milling.

**Flange Facing**
When damage to pipe or process equipment flanges is identified, compact equipment is available to rapidly rectify faults and damage. The equipment is sized to cover any flange-facing application using either internally or externally mounted equipment. The current range of equipment can face flanges up to 118 inches (3 meters) outside diameter. Typical applications include:

- Heat exchangers
- Tube bundle front and back faces
- Dome ends
- Channel flanges
- Channel covers
- Raised-face flanges
- Ring-type joints
- Hub-type connectors and compact flanges

**Drilling and Boring**
Halliburton's drilling, boring, and tapping operations can be carried out using either electrically, hydraulically, or pneumatically operated machines. Purpose-built mounting jigs can be manufactured in-house to attach the equipment for any application and maintain the desired tolerances and alignment. Typical applications include:

- Alignment boring
- Stud drilling
- Pipe work tie-ins
- Drilling and tapping
- Tube sheet modifications

**Pipe Cutting and End Preparation**
Halliburton's range of pipe-cutting equipment covers any diameter and wall thickness of pipe and is capable of cutting all standard and exotic materials in any environment, including subsea. The following are typical applications:

- Cutting
- Weld prepping
- Excavating and removal of defective weld material
- Simultaneous cutting and prepping
- Counterboring
- Turning
In addition to the above, we are able to review and, in many cases, execute cutting or preparation work for custom or special applications. Through collaborative consultation, we are able to solve any machining, cutting, or pipe-preparation challenge.

**Milling**

Milling machines are highly versatile and are able to perform a wide range of tasks. The equipment is flexible and portable. Milling services are typically used for the following:

- Heat-exchanger division plates
- Pump or motor bedplates
- Shaft keyways
- Hatch covers
- Square and nonstandard flanges
- Special applications upon request

**Global Experience**

Halliburton provides on-site machining services to construction projects as well as operational facilities from our operational bases in almost every oil- and gas-producing area of the world. Our track record covers the complete range of pipework, joint types, and diameters. We are committed to providing a high-quality, cost-effective service to solve challenges faced by our customers.

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**For more information about Halliburton's On-site Machining Services, contact your local Halliburton representative or email pps@halliburton.com**

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