

**Moss offers a range of independent Mechanical Onsite Services to both On and Off shore industry. Our combination of state of the art machinery, equipment and technical expertise guarantee a high standard of work to meet clients' specific requirements.**

We have the capability and expertise to respond quickly, 24/7, to tight customer deadlines to all industry sectors. In addition, we have in-house manufacturing capabilities to create bespoke machinery to conduct complex projects. We have a pool of competent multi skilled technicians who expertly deliver our services to our client base wherever the location. Our priority is the quality of our service, the surrounding environment and the Health and Safety of our people.

## Specialist On Site Machining Services

### FLANGE FACING

Heat Exchanger, Tube Bundle, Plate, Front and back faces of dome ends. Standard raised face and bolt face. Ring Type Joints (RTJ). Grayloc / Techlok / Galpereti hubs.

### PIPE END PREPARATION

Form tool & single point preparation of pipe ends prior to welding. All wall thicknesses and materials.

### PIPE CUTTING & BEVELLING

Simultaneous, cutting and preparation of in situ pipe work. Re-machining of In situ weld excavations. All materials and wall thicknesses.

### MILLING

2D & 3D Milling, from Keyways, Heat Exchangers to large motor bases or pads

### STUD REMOVAL

Removal of seized and broken studs, including nimonic steels in turbine casings, valves, boilers and flange faces

### LINE BORING

Line Boring to tight tolerances in all applications.

### DRILLING

Hole drilling - any material in any aspect, including confined spaces. Bearing housings bored and sleeved. Broken studs - removed

### TAPPING

Tapping and re claiming of damaged threads.

### BORING

Boring of pumps and vessels, open-ended and blind. Crane pivot pins- bushes. Engines and machinery buckets

### TREPPANNING

Trepanning of holes in all materials in various working aspects.

### JOURNAL TURNING

Tight tolerance re works, Machining under size for; sleeving / weld overlay / metal spraying then machine back to original size.

### HONING

Internal honing of cylinder and bores.

## Hydraulic Bolt Tightening Services

### FLANGE INTEGRITY MANAGEMENT

Management System for bolted flange connections during construction, maintenance and shutdown activities.

Providing competent manpower and equipment to cover a bolted connection life cycle from break out, inspection, assembly, tightening and testing as per UKOOA Guidelines to guarantee leak free connections.

Keeping downtime to a minimum by reducing additional costs associated with re-testing pipe work due to avoidable leaks.

### HYDRAULIC BOLT TENSIONING

Controlled hydraulic bolt tensioning of bolted connections with bolts from 3/4" to 4" diameter. Suitable for ANSI, API, Heat exchangers, Clamp connections

### HYDRAULIC TORQUE WRENCH

Direct fit and square drive hydraulic torque wrenches to suit 1/2" to 4" bolt diameter.

### NUT SPLITTING

Hydraulic nut splitting equipment to suit 3/4" to 4" bolt diameter

### FLANGE SPREADING

Hydraulic flange spreading equipment capable of generating 15.5 tons force each

### PIPEWORK ALIGNMENT TOOLS

Manual and hydraulic equipment designed specifically for aligning pipe work and bolt holes

### TRAINING

In house and onsite training services

### TECHNICAL AND ENGINEERING SUPPORT

Provision of technical support for Bolt Load calculations and engineering solutions for bolting problems

## Spark Erosion Services

### SPARK EROSION

The comprehensive removal of broken drills, taps, extracts and bolts using cutting edge electro metal disintegration technology.

## Engineering Support

### COMPUTER AIDED DESIGN AND IN-HOUSE MANUFACTURING

Capability specific to research, design & manufacture of purpose built portable machine tools and ancillary equipment to suit bespoke applications