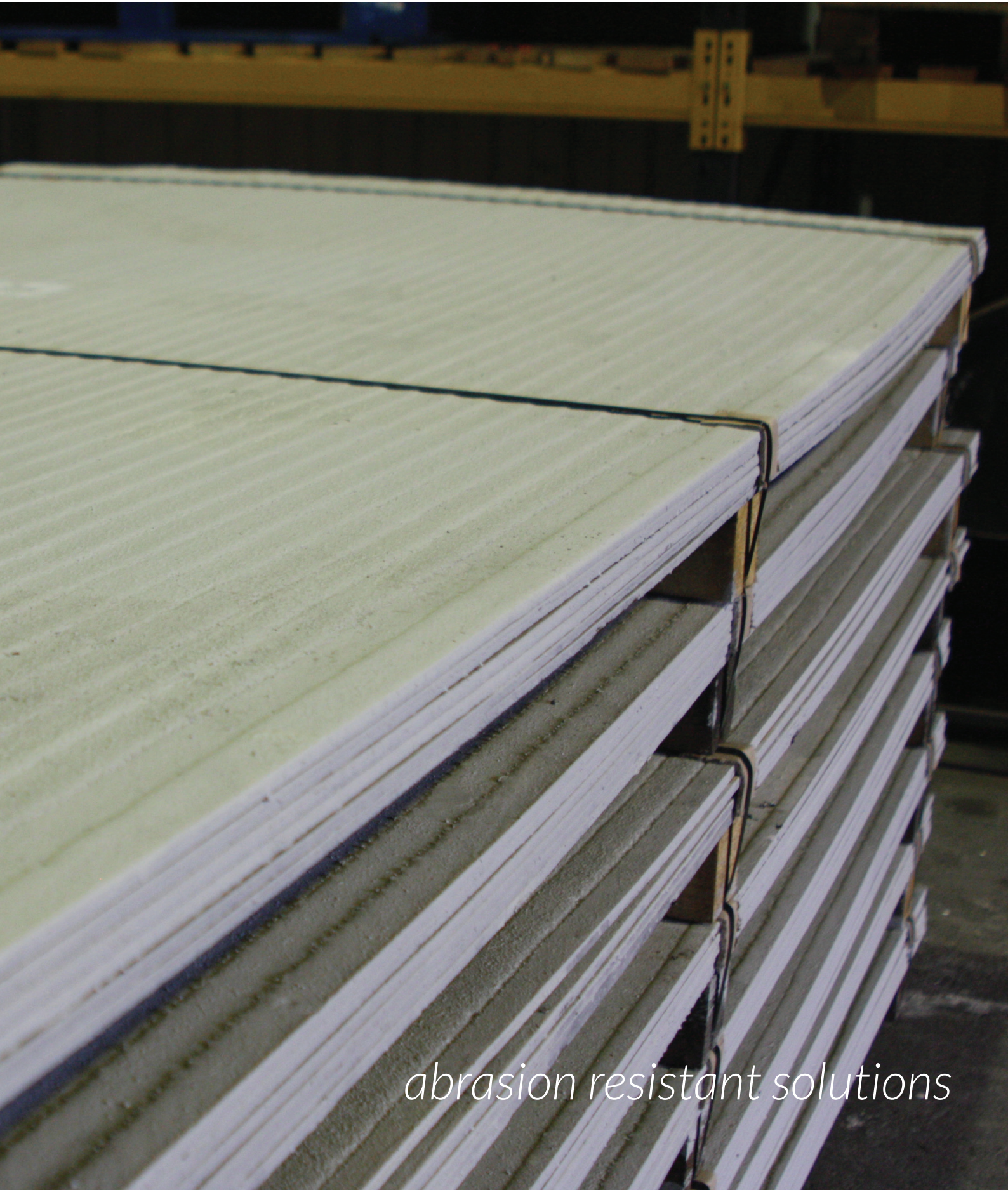


Engineering Capability

**RED DOG**  
**LININGS**



*abrasion resistant solutions*



# RED DOG LININGS

Red Dog Linings Limited is the sole manufacturer of our proprietary T200X™ hardfacing wear resistant materials. We have major fabrication facilities at our manufacturing headquarters in the UK.

**UK** manufacturing centre Red Dog Linings operates extensive workshop facilities conforming to BS EN ISO 9001:2008 and other internationally recognised quality standards. We provide a total wear protection service for the profiling of flat liners to the fabrication of complete sections of plant. Red Dog Linings also has the ability to combine hardfaced plates with other materials and various hardfacing techniques to create a cost-effective system of protection that matches wear patterns and physical limitations such as weight.

The Company's hardfacing departments offer a repair and refurbishment service which protects new components or rebuilds worn items, applying a wide range of wear resistant alloys using modern hardfacing techniques.

## Fabrication and refurbishment expertise

As a major manufacturer of overlay wear resistant plate, Red Dog Linings has in-depth knowledge of the physical and mechanical characteristics of such material. This enables us to recommend the most appropriate fabrication technique and select the optimum weld bead orientation for applications in which material flow is a factor. Similarly, we can offer special low friction finishes for adhering (sticky) materials of 'captured material' techniques for severe environments.

The Red Dog Linings' workshop has developed extensive experience in the profiling, forming, and fabrication of T200X™ hardfaced plate into complex shapes including curved and conical sections. These can have T200X™ hardfacing alloy facing on either the inside (pipe work and reduction services) or the outside (classifier cones and externally clad pipe).



Red Dog Roll Reclamation, which is part of Red Dog Linings Group, is a leading specialist in the manufacture and refurbishment of hardfaced rolls for steel mills, food manufacture, and other industries. It also undertakes a wide range of general engineering projects such as the manufacture and repair of roll bearing housings, including heavy duty chocks, roll end furniture, drive shafts, and spindles.

## Current plant

Red Dog Linings has fully equipped and integrated workshop facilities capable of the manufacture and fabrication of T200X™ Hardfaced plate, roll manufacture and refurbishment, as well as a wide range of refurbishment of industrial plant items which involves general engineering, machining, and fabrication skills all available under one roof.

Our facilities include:

# Machine Shop

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## Turning lathes

7 off manual centre lathes with capacity up to 5.5 metres between centres and a maximum swing-in gap of 985mm, fitted with digital read-outs

**Colchester Mascot 600** with 1.4m between centres and a maximum swing of 430mm over slide

**Optimum D420 x 1500** with digital read-outs 1.5m between centres and a maximum swing of 250mm

**C.N.C lathe- Colchester Tornado 100** slant bed with barfeed, max dia. 186mm, length 350mm

## Millers

**Vertical mill** – fitted with 1600 x 600mm table, offering maximum height and column to spindle distances of 305mm, with digital read-outs

**Bed mill** – capable of handling items up to a maximum 2.5m in length, 900mm width, and 1.27m height, with digital read-outs

## Grinder

**Chevalier grinder** semi automatic surface grinder 500mm x 1500mm table size

## Borers

**2 x 2 axis horizontal borers** 1 with digital read-out, 6 tonne table, and 102mm spindle

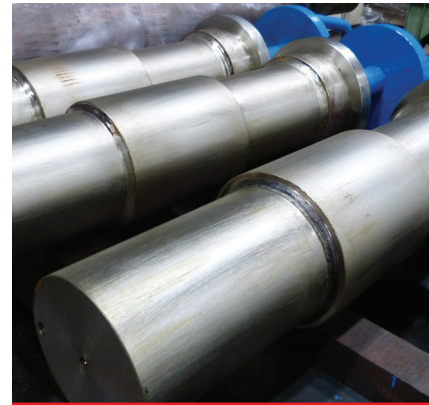
**1 x 2 axis Webster Bennett vertical borer** with digital read-out 48" chuck, maximum height 28"

## Drilling

**Radial drills** – with a maximum height of 1.14m and a maximum column to spindle capacity of 711mm

## In-house NDT

Dye penetrant inspection and magnetic particle inspection  
PCN Level II ultrasonic inspection



# Hardfacing Shop

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## Automatic and semi-automatic hardfaced welding machines

**5 off high deposition bulk welding machines** with 20 off high deposition multi process open arc and submerged arc hardfacing heads

**3 off column and booms** with automatic hardfacing systems for the overlay and refurbishment of equipment

**3 off multi head orbital submerged arc welding machines** used for roll refurbishment welding with welding capacity up to 40 tonnes

**2 off pipe overlay machines** - automatic hardfacing internal diameter producing either circumferential or longitudinal hardface beads; with water cooled facility to reduce pipe distortion

## Stress relieving

**1 off Teisen Gas stress relieving heat treatment furnace**

**1 off LTM electric stress relieving heat treatment furnace**

**1 off Greenbank pre-heat treatment soak oven**





## Fabrication Shop

### Profiling

**Viper CNC hi-def plasma** profiling with True Hole technology  
Cutting dimensions up to 8000mm x 3000mm x 40mm  
Orbital tool head for countersinking and edge chamfering  
Oxyfuel cutting up to 150mm thickness  
2D CAD input including DXF formats

### CNC plasma

with orbital tool head for countersinking and edge chamfering  
Cutting dimensions 3500mm x 3000mm  
**Hand plasma** and oxyacetylene burning torches

### Forming

**Press brake** 250 tonne capacity producing corners, cones and bends  
**Forming rolls** bending up to 200 tonne capacity  
Cone rolling – up to 30mm thick

### Straightening rolls

Flattening up to 30mm thick plate

### Welding

21 sets of 600 Amp water-cooled MIG sets manual and semi-automatic processes  
**Welding** – 11 MMA sets  
**TIG welding**  
**Pressure testing equipment**

### Positional equipment

**Manipulators** ranging from 1 tonne to 40 tonne  
**Powered tank rolls** from 1 to 20 tonne  
**2 axis manipulators** – 2, 3, 5, 10 and 40 tonne capacity

### Overhead crane

All workshops are served by two adjacent 10 tonne overhead cranes with a maximum straddled lift of 18 tonnes

### Transport

**HGV** rigid body capacity 16 tonne  
**Ford Transit pickups** - 2 off x 1 tonne

For further information visit our website at [www.rdlinings.com](http://www.rdlinings.com)

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