

Skype Hardbanding Equipment

FROM  **HARDBANDING
SOLUTIONS**

hardbandingequipment.com



Skype

**HARDBANDING
SOLUTIONS**

Made in Scotland

Next Generation Skye Hardbanding Equipment:

SCOTTISH ENGINEERING WITH AN AMERICAN HEART

To see the unique advantages of Skye:



hardbandingequipment.com



search 'Skye Hardbanding'

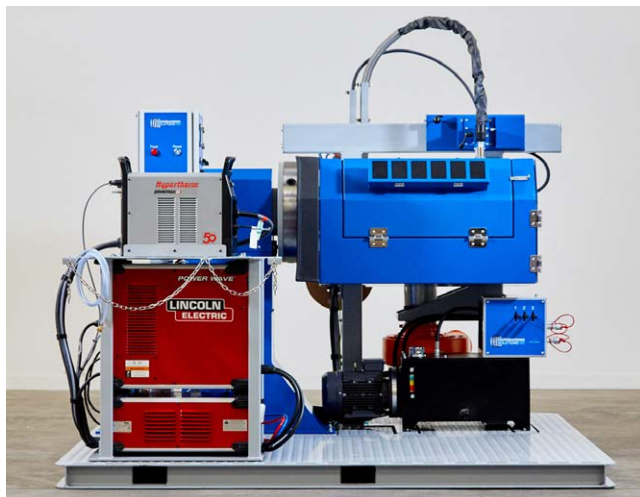


Since 2008, we have traveled from our Hardbanding Solutions base in Scotland, training companies across the globe to apply Duraband® NC hardbanding to the highest quality. Using this experience and our background in welding automation, we have designed the 'Skye' range of equipment for hardbanding drill pipe and tubing using any brand of wire.

These are no ordinary hardbanding machines. We have redesigned the process to make hardbanding drill pipe tool joints easier. Additionally, our unique plasma removal procedure means you can remove hardbanding and repair the tool joint in one heat cycle and without the drill pipe leaving the machine.

Now, Skye hardbanding equipment is available in the USA, fully imported meaning no additional customs fees, with a training and support team located in-country. Everything in our new 'Skye USA' range is configured to US power supply. Included in the cost of your Skye Hardband Unit, we will ship to any address plus provide training on site. Our Welding Power Source, Welding Torch and Plasma Unit all originate in the USA meaning all consumable parts can be easily sourced locally.

CHOOSE THE UNIT THAT WORKS FOR YOU



Skye

Stationary

**With our SKYE unit, everything you
need is at the touch of a button**

Numbered, accurate and easy-to-use control of all functions

Industry-best fume extraction system creating a safer
working environment

Control panel in your preferred language

PLC offering: full auto cycle control, auto chuck
homing function, auto step-over, incremental over-run,
number of bands (0-99), auto stop

Full manual control is also possible

CHOOSE THE UNIT THAT WORKS FOR YOU



Skye
Go

Mobile

All the great features of Skye built into a modified 20ft shipping container for transport around the world, and to the rig-site

Internal LED light panels for a safe working environment

External LED flood lights means SkyeGo can operate day or night

Optional diesel generator to power the unit and peripheral tools, with external power socket

Drill pipe access door and operators window for protected view outside the unit

Welding wire storage space and SkyeHeat holder

Can be shipped as a standard 20ft container, reducing cost

EXTRAS



Hydraulic Drill Pipe Delivery System

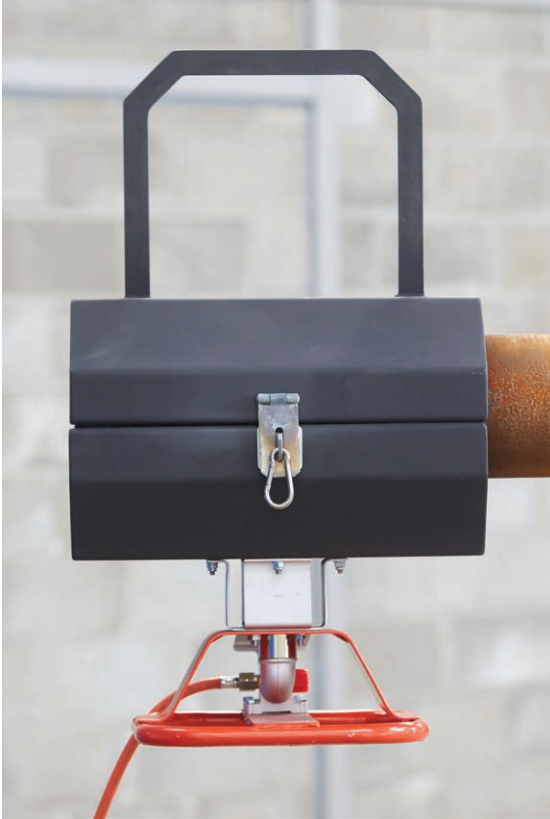
**Lift the drill pipe
in and out of the
hardband machine**

All hardbanding units require one, so if you don't have an existing system, we've produced one so you can lift your pipes effortlessly:

Two ball roller adjustable jacks

Additional third jack behind chuck for
handling HWDP and Collars

All controlled by levers at the welder's fingertips



Preheat Equipment

Heating material
before welding

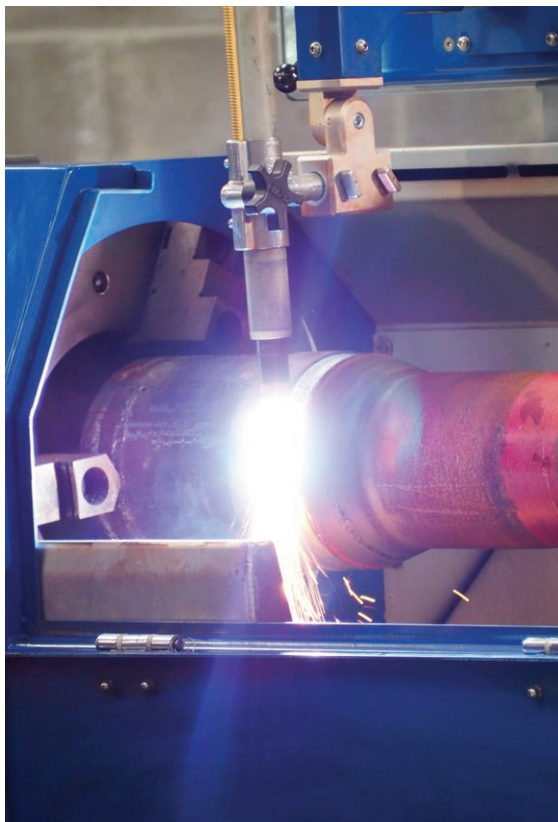
We offer two options, with different levels of cost and efficiency:

1. 'SKYE HEAT' PROPANE HEATING

We have designed 'Skye Heat' for easy application and positioning over the tool joint or center wear pad, to give a proper 'soak' heat

2. INDUCTION HEATING UNIT

This is the new technology, offering faster, deeper heating. Although initially more expensive to purchase, over the long term this unit works out less expensive than using Propane



Plasma Removal System

**Remove cracked
or damaged
hardbanding from
tool joints**

With this system you can:

Use the same chuck and weld box

Carry out removal, repair, and re-hardband quickly and without moving the drill pipe, using our unique laboratory proven procedure

Reduce the time taken to fully repair drill pipe tool joints with damaged or cracked hardbanding substantially in comparison to existing methods

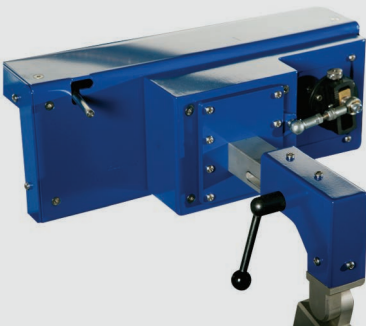
OUR WINNING FEATURES MAKE HARDBANDING DRILL PIPE EASY

PLC Control System 1 Button Welding



Once welding and torch positioning parameters are set, the operator simply has to select the number of bands required and press the Weld button to run the program. That's it. Chuck rotation, torch oscillation and the welding begin, giving a flawless start to your application.

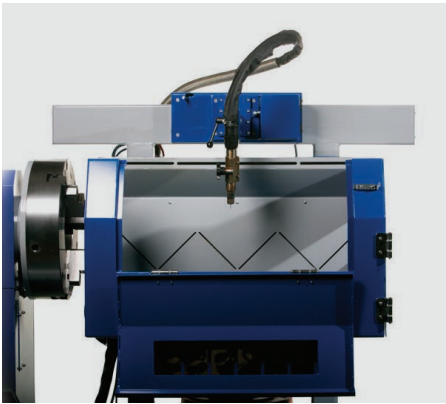
Torch Positioning System



We've made things easy with our unique torch positioning system. You only need one quick adjustment of height to match the size of tool joint to be welded, and then you're ready to weld the perfect bands. It's quick, simple and spot on. Every single time.

OUR WINNING FEATURES MAKE HARDBANDING DRILL PIPE EASY

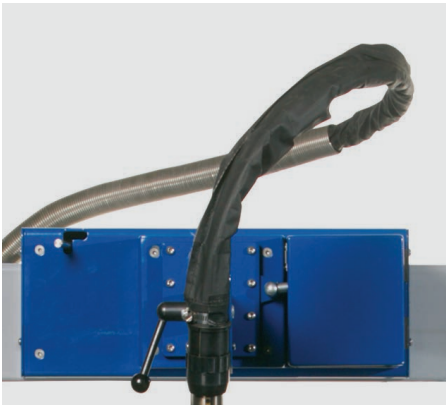
Fume Extraction System



We've designed our hardbanding unit with a unique system of low and high pressure fume extraction, directed through carefully positioned vents. In factory conditions, this will remove almost all welding fumes without disturbing gas flow at the welding torch.

This feature is critical for health and safety conscious organizations.

Oscillation

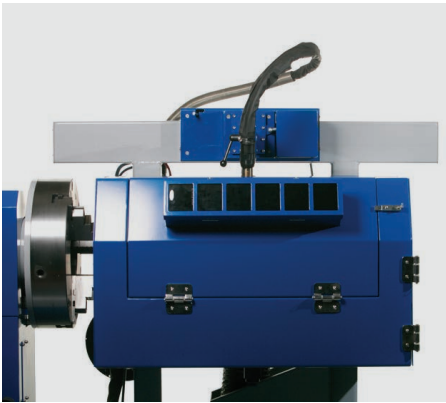


Our oscillation is strong and reliable, and its width can easily be changed with a quick thumb wheel to measured increments.

We've created an efficient, stable and linear motion which results in a perfectly straight band, every time, and is capable of 0 - 100 oscillations per minute.

OUR WINNING FEATURES MAKE HARDBANDING DRILL PIPE EASY

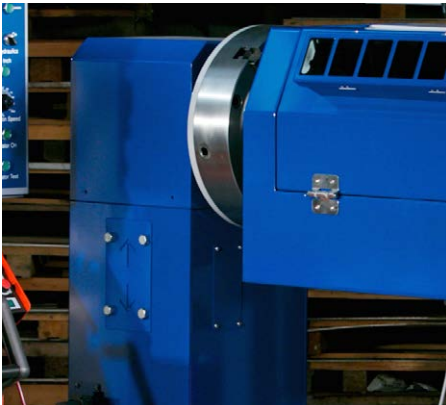
Automatic Weld Head Carriage



Designed with time-saving, simplicity in mind, our automatic carriage lets you position the welding torch to your starting point, move from one band to the next and put the torch in a safe position for loading a new tool joint, all from the control panel.

With the capability to move at speeds between $1/32''$ – $3/4''$ per second, this robust carriage is designed for speed.

Headstock




The robust three jaw chuck is made to order in the UK especially for Hardbanding Solutions. We set our chuck speed to minutes and seconds, so changing it for varying diameters of tool joint is fast and simple. It will turn at speeds from 0.2 rpm to 2 rpm as standard. If you need it higher, we can do that on request.



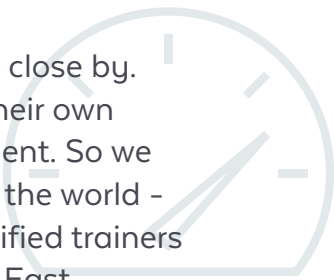
TRAINING & TECHNICAL SUPPORT

At Hardbanding Solutions we're absolutely determined that our customers get the most out of our products. That's why we offer on-site training anywhere in the world as standard with the purchase of any of our units, as well as free on-site technical presentations to bring you up to speed on the latest developments in drill pipe and casing protection.

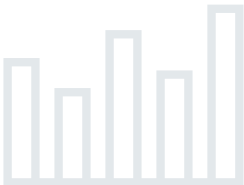


TRAINING

Training and technical support are always close by. We believe welders should be trained on their own equipment, in their own working environment. So we come to you - no matter where you are in the world - for free. Hardbanding Solutions have qualified trainers based in the USA, Europe, and the Middle East.



We have also travelled extensively across the world to train applicators in the fundamentals of hardbanding and grow the global licensee network for Duraband® NC hardband material.



Training usually takes 4-5 days and sessions include:



HEALTH & SAFETY

How to protect yourself and your colleagues from heat, arc-rays and welding fumes



PREHEATING

How to achieve a soak heat every time



WELDING PARAMETERS

Learn about the settings required for a perfect band



PRODUCTION CAPACITY

How to increase efficiency to weld more joints in one shift



REMOVAL & REPAIR

Successful plasma arc removal of damaged hardbanding and effective repair of the tool joint



REAPPLICATION

Learn which tool joints are candidates for reapplication and how to deal with incompatible materials



BUILD-UP

How to restore the diameter of worn tool joints with Postle build-up wires



TECHNICAL SUPPORT

If you're employed by a service company, a drilling contractor, a drill pipe rental company or an oil and gas operator, we can help you understand hardbanding better. Chances are, you'll have a lot of responsibility and a good deal more to think about than hardbanding. We don't, hardbanding is all we do. We live and breathe it.

Our offer to share all we've learned about hardbanding, with you and your colleagues, is a genuine one. We'll fly over, provide free, on-site technical presentations at your office and not leave until you're confident you know as much as we do (well, almost). We'll discuss how you can get the most from your drill pipe, and the latest technical milestones from API/Stress Engineering and Fearnley Procter NS-1® standards.

We based our products on three priorities:

1. QUALITY

Our units are built to last. We deliberately build our products with over- specified main components, manufactured in either Scotland or the USA, to make sure you receive a reliable and long-term return on your investment.

2. USABILITY

Offering both automatic and manual units, our machines are simple to operate, without the need for additional hand tools. Requiring minimal effort and input from the operator, our products are a cost effective option, saving oil and gas service companies valuable time.

3. SAFETY

Like any welding process, hardbanding can present safety concerns. However our machines incorporate industry-leading health and safety features, making us the supplier of choice for health and safety conscious organisations. Our fume extraction system removes significantly more welding fumes than conventional hardbanding equipment, and doesn't disturb gas flow at the torch. Our robust welding box ensures the welding arc is enclosed and operators eyes are protected from the built-in shaded safety glass. With Skye being fully automated, there is far less manual adjustment required, greatly reducing the chance of accidents.

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