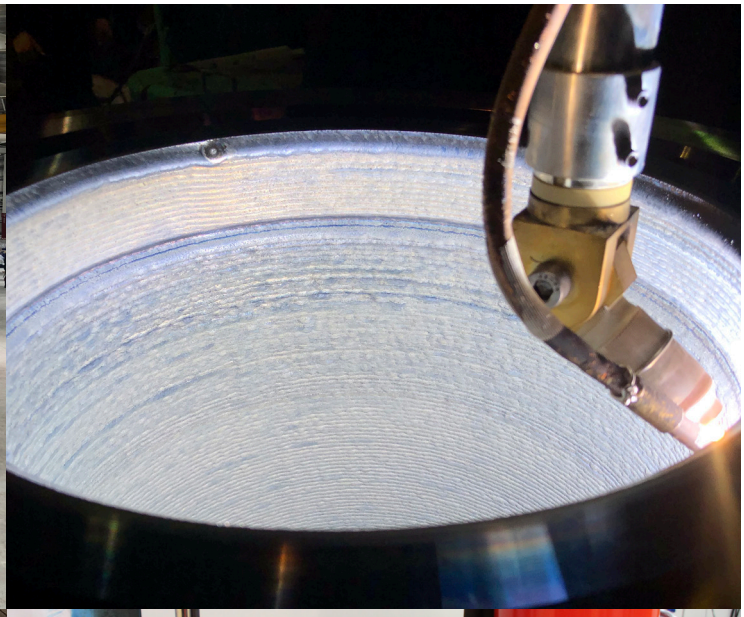
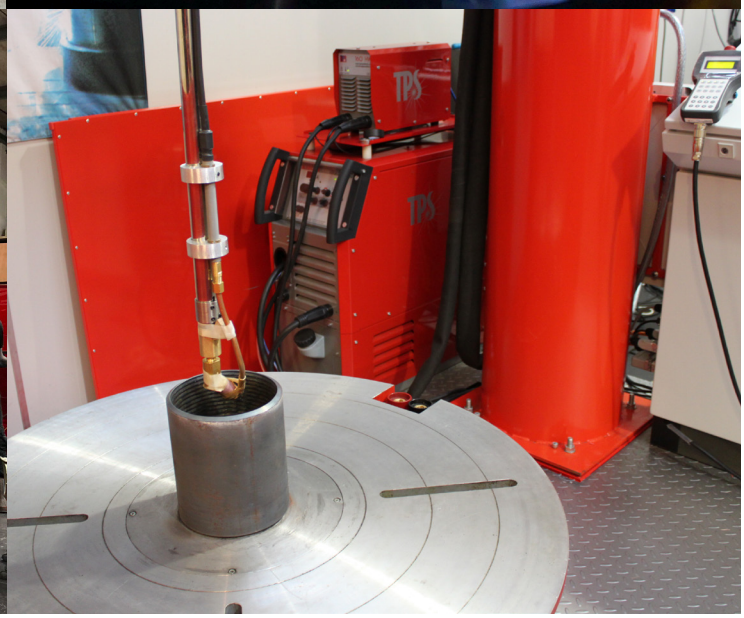
TPS WeldTech

Weld Cladding Systems - SCU

Self Contained Unit (SCU) Clad Cells





Supplying & installing weld cladding systems worldwide

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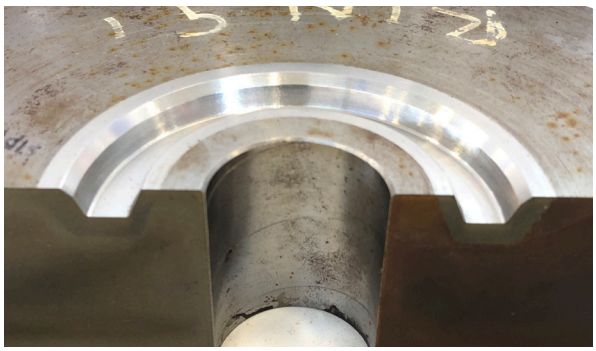
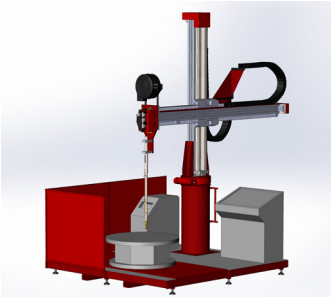
Weld Cladding Systems - SCU



Weld overlay cladding deposits a layer of **C**orrosion **R**esistant **A**lloy (**CRA**) to areas at risk of corrosion and wear. Typical applications include connectors, ring grooves, elbows, flanges, pipes, spools and valves.

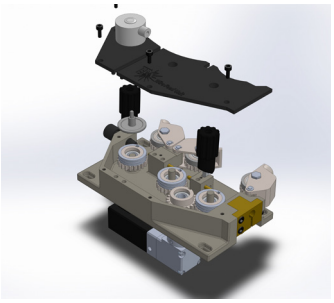
TPS have developed the compact **SCU** cladding station, which contains a turnkey, fully automated, hot wire TIG weld overlay system, in one complete, **S**elf **C**ontained **U**nit (**SCU**).



The **TPS SCU** is a fully programmable, PLC controlled, cladding system, that is capable of applying high quality weld overlay on internal and external components, simply and easily.

Our industry leading user friendly interface does not require any previous computer knowlege. A simple touch screen selects and controls all weld and AVC parameters, data documentation and bore-to-bore programming.

TPS were the first to introduce a servo-controlled wire feed system, utilising the highest quality European components. This ensures precise wire delivery with minimum slippage resulting in an even thickness of cladding.



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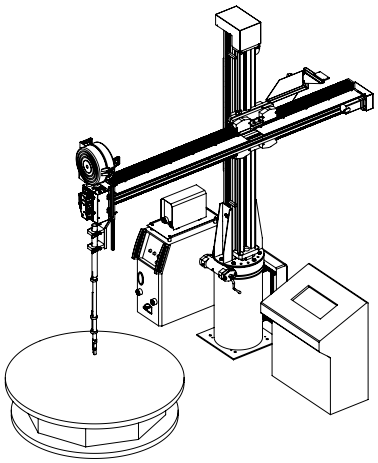
Weld Cladding Systems - SCU

SCU Variants

SCU NB (No Base) cladding station.



The **SCU** system components can be delivered without the fabricated steel base, as an **SCU NB**.

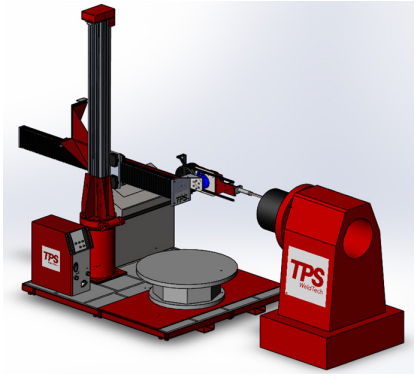
Benefits include reduced overall cost and lead time, however, the system is overall less flexible, as the individual components must be securely fixed to the workshop floor.

SCU TT (Twin Turntable) cladding station.

The system can be delivered with a second fully integrated turntable.

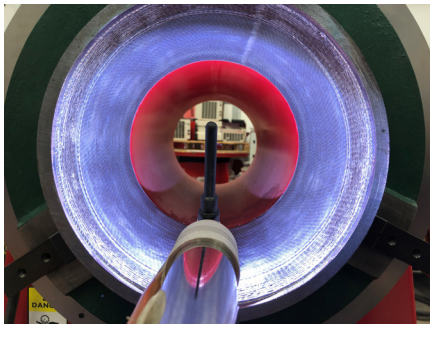
Benefits include reduced overall cost and set up time. Standard capacities include 1t, 3t, 5t, 10t & 20t. Other sizes are available upon request.

SCU Flipper cladding station



The **SCU** system can be delivered with an additional, horizontal, rotating axis for the torch, to allow it to “flip” between a vertical **and** a horizontal machine.

This results in major benefits in flexibility, as the SCU can clad vertically, and with additional headstock, can also deposit weld overlay in the horizontal position, enabling higher deposition rates and also the ability to clad longer lengths. Traditionally, this was only possible with much larger, more expensive systems.

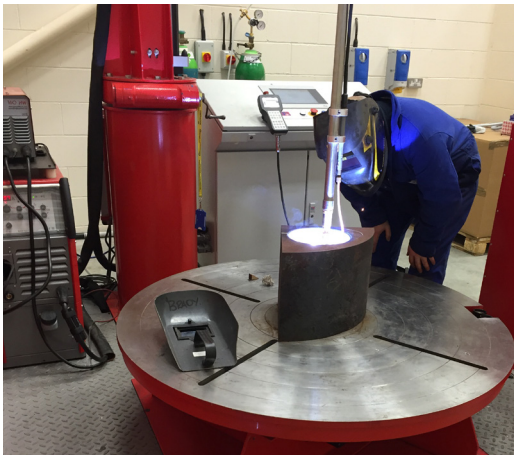


Weld Cladding Systems - SCU

Worldwide Reach

Al Jubail, KSA
مدينة الجبيل الصناعية - المملكة العربية السعودية

UK Base



Aberdeen, UK
أبردين ، المملكة المتحدة

SCU Standard Specifications	
Horizontal slide	1,250mm
Vertical slide	1,050mm
Main power source	TPS DC 500 Amp TIG (380 Amp 100% Duty)
Hot wire power source	TPS DC 160 Amp TIG (130 Amp 100% Duty)
Wire feed unit	TPS Aut 465 servo feed system, 4 roll drive
Hot wire torch	Standard swivel head (bore size ≥85mm)
Work piece dimensions	1,000mm maximum diameter, 1,000mm maximum height
Turntable	3,000kg (1,300mm diameter, 0.3 to 3rpm)
Standard SCU base size	2,150mm x 2,400mm

Torch Types	Small Bore	Small Bore Swivel	Standard Fixed Head	Standard Swivel	Knuckle Swivel
Bore size	28mm +	40mm +	60mm +	85mm +	85mm +
Head angle	0-90°	0-90°	0-90°	0-90°	0-90°
Bore length	950mm	1,000mm	1,500mm	1,500mm	1,500mm

Extra length available for all types.
Other sizes available upon request.

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