Laser cladding

Oil & Gas

Laser cladding has become a mainstream solution in the onshore and offshore Oil & Gas industry. Laser Cladding allows power densities that are not typically possible with conventional thermal procedures resulting in minimal heat input, minimal distortion and avoidance of post weld heat treatments.



Flexi-Clad[™] machines are fully integrated and available with CNC control - **PRO** or Robotic control - **ELITE** and are further customisable with the addition of optional laser hardening head, wire feed head, internal cladding attachment and heavy parts package. **EHLA** (Extreme High Speed Cladding) can also be added Hornet Laser Cladding **Flexi-Clad™** series machines are designed to meet the demanding requirements for processing speed, ease of use, ease of maintenance, reliability and flexibility expected in the down hole tool market. All systems are supplied complete with Laser Safety enclosure.

Machine	Manipulation	WLL	θ max	Working range	Laser	Control
Flexi-Clad™ PRO	Horizontal	3,000 kg	1,000 mm	0 – 3,700 mm	4 kw	3-axis CNC
Flexi-Clad™ ELITE	Horizontal	3,000 kg	1,000 mm	0 – 3,700 mm	4 kw	9-axis Robotic
	Turntable	1,000 kg	800 mm	0 – 1000 mm		
+ Heavy Parts package	Horizontal	18,000 kg	1,000 mm	0 – 4500 mm	-	-



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