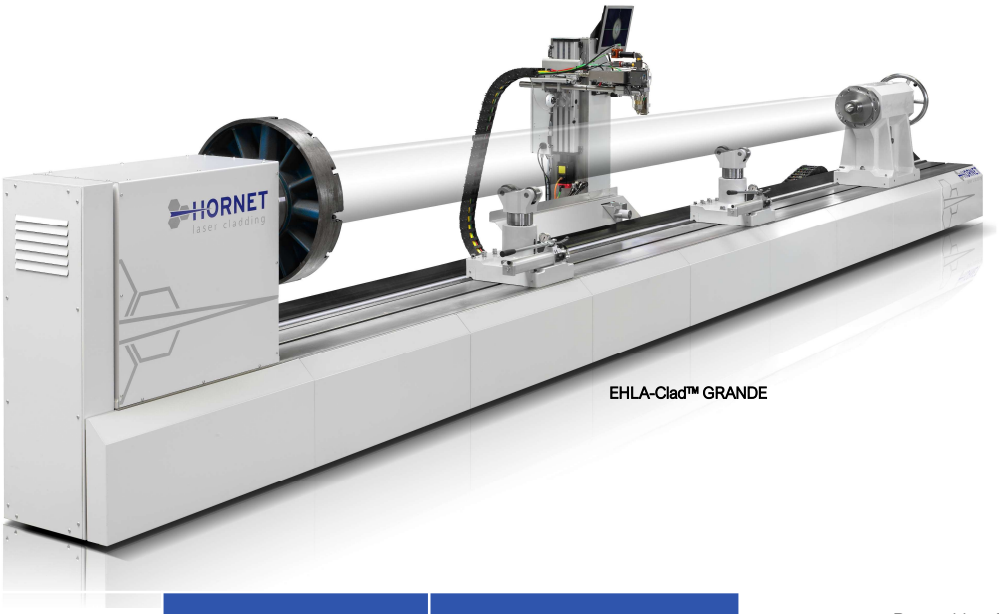
Hydraulic Rods

Highly stressed machine components such as Hydraulic cylinders have so far been protected against wear & corrosion by hard chrome plate & thermal spray. Major deficiencies in these processes, such as low adhesion, moderate corrosion protection, use of harmful chemicals and high processing costs makes Extreme High Speed Laser Cladding (**EHLA**) a superior and environmentally friendly alternative.



EHLA-Clad™ GRANDE

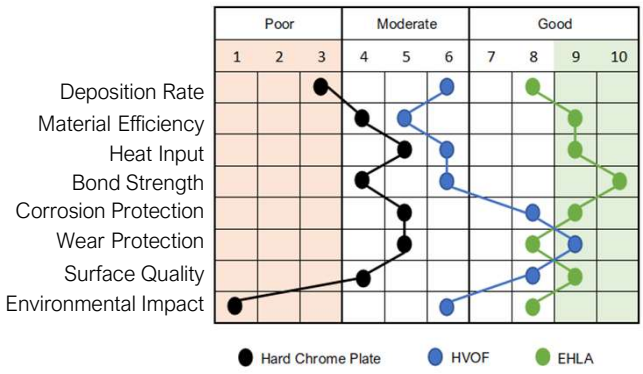
Advantages of **EHLA** include:

- superior corrosion protection
- low heat input and distortion
- low material dilution (<1%)
- can process hard-to-weld alloys
- suitable for coating, repair and AM
- no pre-treatment of surface required
- reduction in processing times
- increased accuracy due to reduced layer thickness
- high material utilisation (up to 90%)
- abandonment of Chrome VI useage

	EHLA-Clad™ PRO	EHLA-Clad™ GRANDE
Max Load	3,000 kg	18,000 kg *
⦰ Max	1,000 mm	1,000 mm
Working Range	0 – 3,700 mm	0 – 9,000 mm
Laser Power	3 kw	3 kw
Control	CNC	CNC
Cladding Speed	0.6 – 1.6 m2 / h**	0.6 – 1.6 m2 / h**

*with optional heavy package

** 50 um layer thickness



Hornet Laser Cladding **EHLA-Clad™** series machines are designed to meet the demanding requirements for processing speed, ease of use, ease of maintenance, reliability and efficiency expected in the Hydraulics market. Integrated with 3-axis CNC control they are further customisable with the addition of closed loop process control and internal cladding attachment.
All systems are supplied complete with Laser Safety enclosure.



Hornet Laser Cladding BV - Van Hennaertweg 11 - 2952 CA Albasserdam - Netherlands

tel: +31 (0) 88 024 5600 - info@hornetlasercladding.com

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