



Flexible Solution. Precision Engineered. Budget Friendly

The **Hornet Mobile™** is a precision laser cladding system engineered to exceed the demands of today's production environments. Compact, moveable and liftable, it can be deployed in the field and at the place of need. The system integrates the advanced technologies you expect from Hornet Laser Cladding.

Have the ability to perform on-site repairs of large or immovable components, avoiding costly, time-consuming transportation and disassembly.

CE conformity according to 2006/42/EG
Annex II, Part 1A

On-site Repairs:

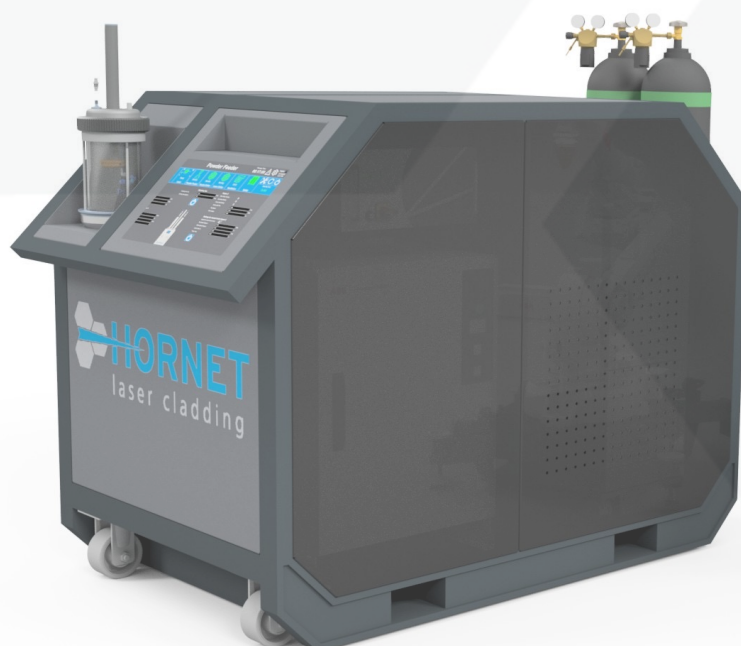
The key benefit is the ability to bring the equipment to the damaged part, rather than the other way around. This is crucial for large industrial components like wind turbine parts, large gear wheels, or components in oil and gas facilities that are difficult or impossible to transport.

Reduced Downtime:

On-site repair significantly minimizes equipment downtime compared to shipping parts to a fixed facility for repair.

Flexibility and Versatility:

Our mobile system, using a robot, can access difficult or complex geometries and be used in narrow or high-altitude locations, offering greater adaptability to different work environments





What's in the Box...

Laser Head Manipulation

- ABB IRB 2600-20/1.65 with Omnicore controller
- **Hornet Software APP** for the ABB robot
- Mobile robot base plate (moveable / liftable)

Mobile Process Control Unit

- Easily transportable and positionable
- **Hornet HMI**, touchscreen
- 3kW Laserline LDM diode laser
- OTS Laserline optic equipped with multi-jet cladding nozzle
- Optical fiber, 20m, LLK-D
- Cooling units for laser and optics
- Single powder feeder and **SimpliFlow™** Hopper
- Electrical cabinet with safety connections
- Remote connectivity via secure VPN
- Securable location for Argon cylinders



Hornet HMI...The Hornet Difference

Our intuitive Hornet Human Machine Interface (HMI) is designed for ease of process operation and monitoring of all system components. The HMI provides complete control over all system components, all from one place.





Ease Programming... The Hornet Difference

This system includes Standard program macros in the Hornet Robot APP

Fast programming of common geometries without the need of programming skills

The operator skill requirements are much reduced, only requiring jogging the robot and enter basic data to enable the robot to calculate the required tool paths

The cladding parameters are easily recalled from the HMI allowing cladding to start in a matter of minutes.

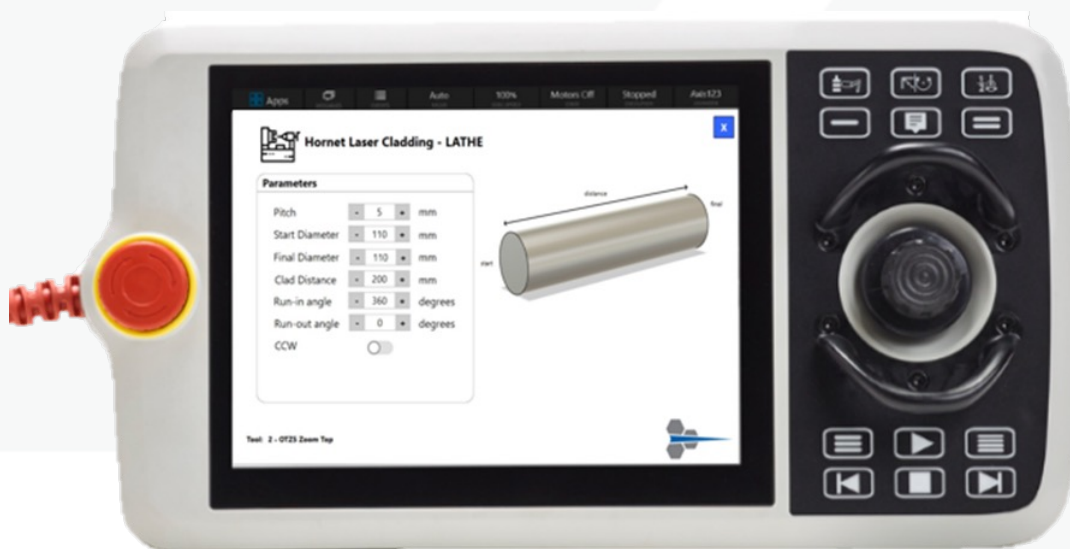
Included program macros:

- line
- line advanced
- arc

Optional additional macros:

(in combination with additional external manipulator)

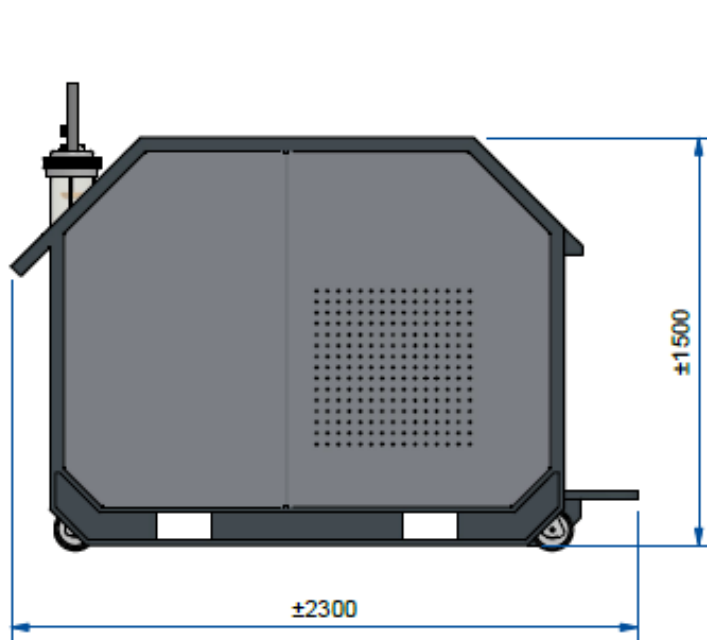
- flange
- crankshaft
- cylinder
- cone



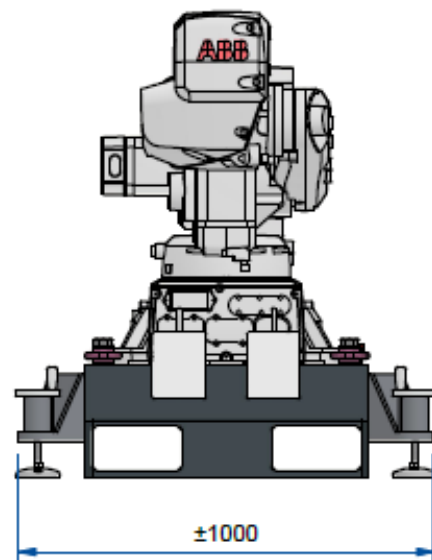
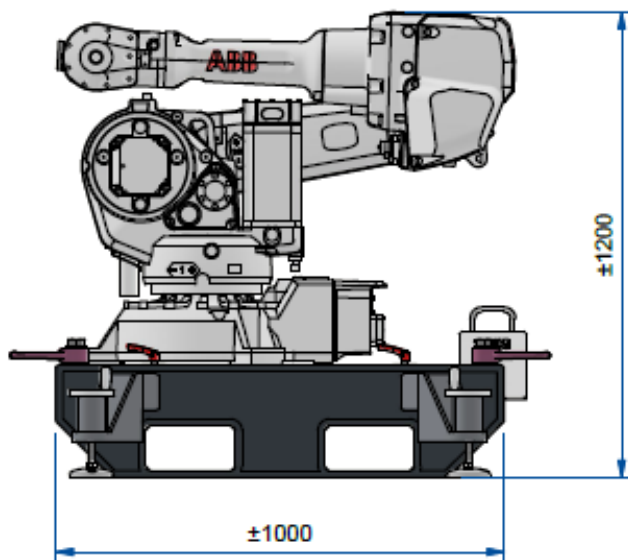
Robot Motion

ABB IRB 2600-20/1.65 industrial robot with Omnicore controller. Moveable and liftable pedestal to enable positioning of robot within work area. Outrigger legs for stability during processing.





Approx weight: 1200kg



Approx weight: 500kg