

DBCH-2000

Deep Bore Clad Head Product Specification

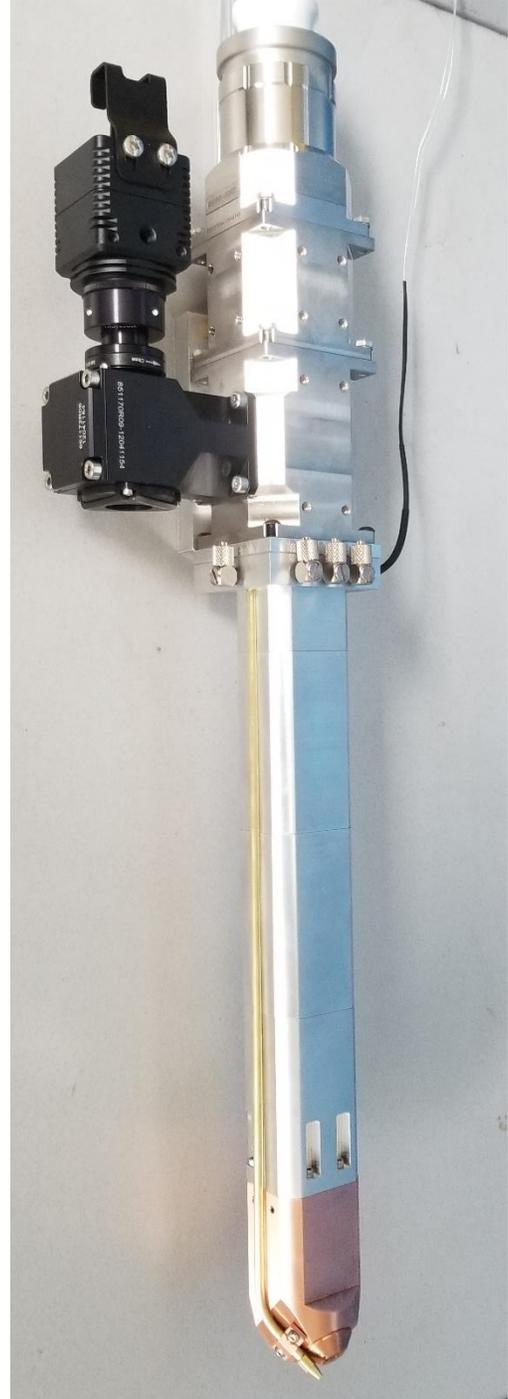


The DBCH-2000 is a rugged, versatile laser cladding tool ideal for bores or tubes. A wide range of powder materials can be used for high quality coatings.

This tool features a unique 45° laser beam exit angle which allows cladding of both cylinder walls and seating surfaces, keeps the cover window further from the melt pool, and greatly reduces back reflections into the head. This innovation also greatly increases the life of the cover window, reducing down time and replacement costs.

Benefits / Advantages

- 12" (300mm) maximum clad depth
- High power (3kW) / high deposition rates
- Flexible design: operator can adjust clad track width and tool standoff distance
- Able to clad internal diameters as small as 2 inches (51 mm)
- Compatible with solid state lasers such as Nd:YAG/Disk or Fiber lasers
- Protective cover window is easily replaced
- Stays cool even when operating at full power in a preheated bore
- Produces excellent clads in any orientation without changing process parameters
- Coaxial gas provides shielding and prevents damage to optics
- Compatible with QB, QD, or Q5 fiber optic cables
- Compatible with any powder feeder



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The unique 45° beam angle makes the clad head a very versatile tool. It is able to clad almost any surface, including ID's, OD's, inside conical shapes, flat surfaces, corners... all without making adjustments to the head.

