IPG’s Laser Cladding Workcell is a modular and highly-configurable workstation for laser-based metal cladding. Based on the company’s Robotic Laser Workcell, the cladding system comprises a high power, high efficiency fiber laser with a process head, powder feed system and powder recovery/debris control module, integrated with a 6-axis motion robot. The robot and process delivery system is packaged within a Class 1 laser safety enclosure, with full interlock integration with access doors and facilities safety systems.

IPG’s Laser Cladding Workcells are configured as turnkey systems for each individual customer requirement. To maximize utilization of the fiber laser source, additional options allow the Workcell to support either cutting or welding functions in addition to cladding, with optional automated switching between the functions.