

Hybrid Manufacturing

From Laser Cladding
to Additive Manufacturing



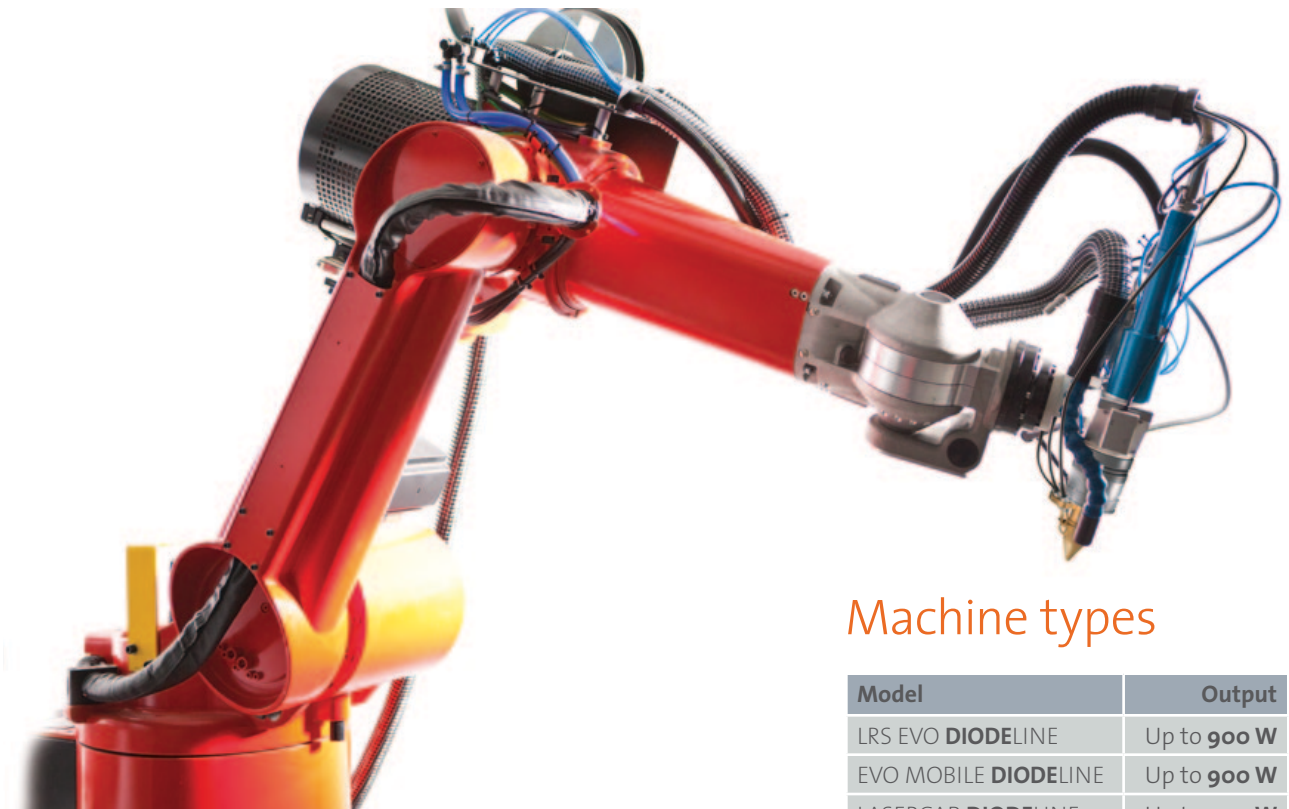
DIODELINE Machines: Equipped for the Powder Nozzle from OR Laser



LASERCAB DIODELINE



EVO MOBILE DIODELINE



ROBOLASER

Machine types

Model	Output
LRS EVO DIODELINE	Up to 900 W
EVO MOBILE DIODELINE	Up to 900 W
LASERCAB DIODELINE	Up to 900 W
ROBOLASER DIODELINE	Up to 4 kW

Powder Feeder

Best powder-based laser cladding results depend on optimal feeding of the powder, i.e. controlled supply and metering.

With our powder feeder, we have made enormous strides toward attaining this ideal. Hardly any other system offers such a favorable combination of properties.

The feed system is highly versatile and suited for all powder morphologies, including powders with poor or absent flowability. The metering unit is intelligently designed to keep the powder flowing steadily and prevent mixes from reseparating.

A number of parameters can be set—e.g. temperature, gas pressure, and powder flow rate—to optimize the system for virtually any application.

The feeder’s see-through design permits easy visual checking. It is optionally available with a scale, and

excellently visualizes and documents the powder feed process.

The system is unaffected by external conditions, it requires only minimal maintenance, and it is easy to load.

Materials

Powder material*	Usability
Steel-based	✓
Nickel-based	✓
Cobalt-based	✓
Carbide-based	✓
Titanium alloys	✓
Aluminum alloys	✓

* The feeder is able to convey any type of powder.



LRS EVO DIODELINE with powder feeder and powder nozzle