



COHERENT | Welding Solutions for Automotive

EPIC Online Technology Meeting on Advanced Laser Manufacturing

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Coherent Key Facts

Coherent is one of the world's leading providers of photonic solutions. We offer a comprehensive portfolio of components, laser sources, laser including beam delivery, and laser systems for a broad range of industrial, commercial, and scientific applications.

- Corporate Headquarters:
Santa Clara, California, USA
- Founded in 1966
- Sales \$1.47 Billion (FY21)* + 21 % from 2020
- ~5,200 Employees
- 27 Manufacturing Sites in 10 Countries
- 19 Application Centers
- 50 locations worldwide ensure global sales and service presence



Coherent Portfolio

ARM Adjustable Ring Mode Laser



Laser sources



Independent, Closed Loop Control

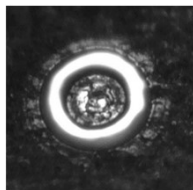
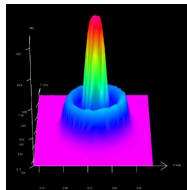
Up to 10 kW total power*

CENTER 0 – 7.5 kW | RING 0 – 10 kW

Closed loop power control from 1 to 100 %
at 5 kHz

Insensitive to back reflection

Standard process optics and scanners



Components



Measurement



E-Mobility Market Focus

• Battery

- Sub-Component Welding
- Enclosure Welding
- Contact Welding
- Module and Pack Welding

• Power Control Unit

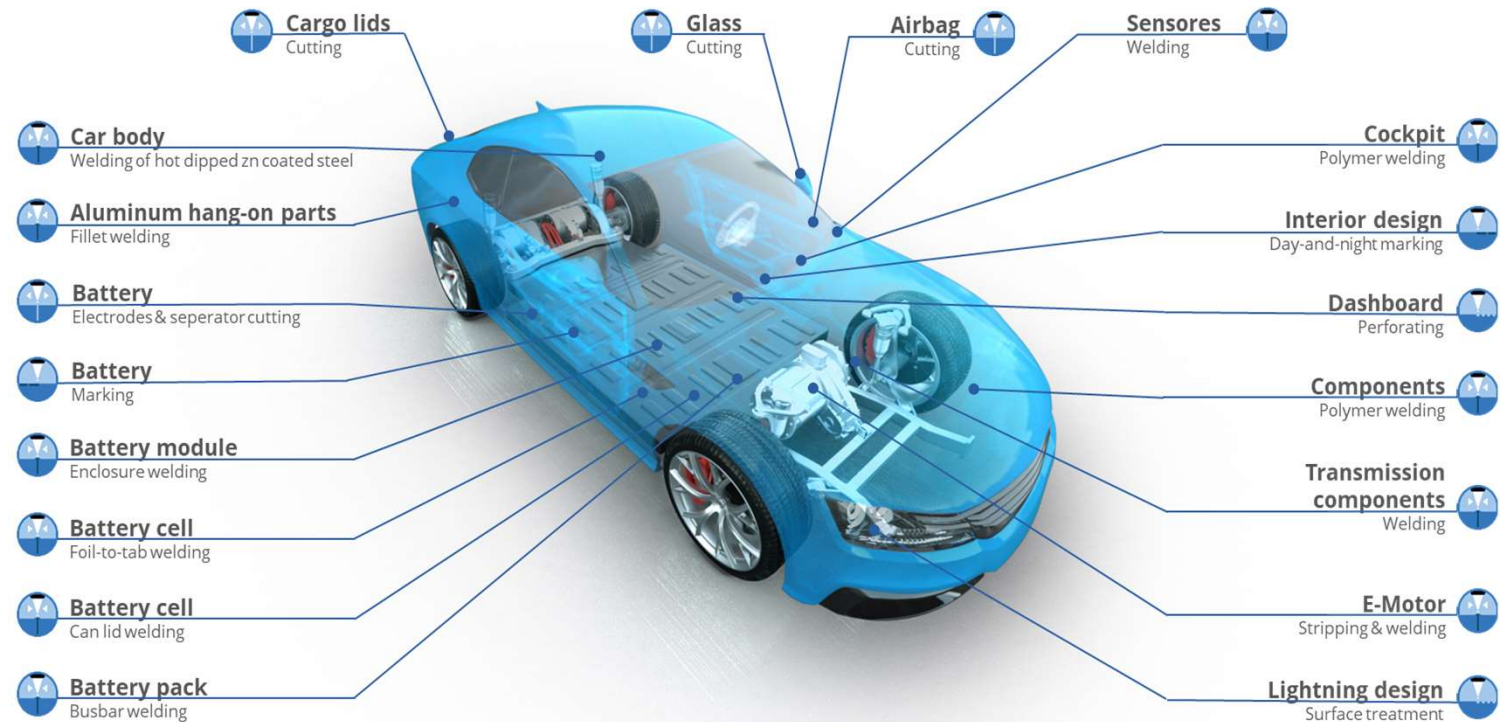
- Contact Welding and Heat Sink Welding
- Contact Soldering

• Electric Motor

- Hairpin Welding
- Stator Welding

• Fuel Cell

- Bi Polar Plate Welding



Looking for

Your specific application

- To support you by setting up or improve your laser processes
- Within various applications in your field of activity in Automotive Manufacturing

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