
Technical Contact

Jarno Kangastupa
+358 50 3853237
Jarno.Kangastupa@coherent.com

PR Contact

David Kuntz
+1 (310) 377-5393
davidkuntz@cox.net

For Immediate Release:

Introducing the First Switchable Adjustable Ring Mode (ARM) Fiber Laser

Santa Clara, CA, November 11, 2019 – The new Coherent HighLight™ FL-ARM with Fiber-Fiber-Switch is a high-power (2 - 8 kW), dual fiber output laser that can sequentially power two separate workstations or processes. Dual fiber output delivers increased throughput in cost sensitive, high-volume welding applications, particularly in automotive manufacturing, such as welding of doors, hang-on parts, ultra-high strength steel components, and aluminum body frames. Alternately, the second fiber can act as a redundant backup for the first, thus minimizing service downtime when required.

HighLight FL-ARM implements power sharing through the use of Coherent's proprietary Fiber-Fiber-Switch technology. The process fibers themselves utilize Coherent's unique Adjustable Ring Mode configuration, comprising a dual core delivery fiber which produces a central spot surrounded by another concentric ring of laser light. The power levels in the center and the ring can be independently adjusted on demand (from 1% to 100%) and switched at a rate 1000 times faster than competing products; it can also be independently modulated. This arrangement provides improved control of keyhole and melt pool stability during the welding process, leading to superior results. Added to this, HighLight FL-ARM employs a multi-stage back reflection immunity system that enhances laser reliability and lifetime, and enables safe processing of highly reflective materials, including brass, copper, and aluminum.

The HighLight FL-ARM with Fiber-Fiber-Switch is the first new product to be introduced by the recently created Coherent Center of Excellence for fiber lasers in Tampere, Finland.

###

Founded in 1966, Coherent Inc. is one of the world's leading providers of lasers and laser-based technology for scientific, commercial and industrial customers. Our common stock is listed on the Nasdaq Global Select Market and is part of the Russell 1000 and Standard & Poor's MidCap 400 Index. For more information about Coherent, visit the company's website at <https://www.coherent.com> for product and financial updates.