

Advances in cutting with high power multi kilowatt fibre lasers, up to 20kW

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High power fibre lasers have been adopted as the advances in automated motion systems speed and controls have evolved. As we enter a new decade fibre laser cutting systems are coming to market capable of cutting a variety of sheet metals with power and beam delivery in the range of 10-20kW. Furthermore using advanced ring and core fibre delivery, we present the advantages and application of AMB Adjustable Mode Beam lasers.

The presentation will review the evolution of high power fibre laser technology over recent years and show the evolution to new and more compact fibre lasers for cutting. Fibre lasers with powers in the 2-3kW range are now available in a single rackmount product. Furthermore, AMB lasers are available at the multi kilo watt high power level, enabling significant advantages in beam parameter control for cutting a wide variety of industrial metals.