

PRESS RELEASE: LATEST AMADA ENSIS FIBRE LASERS BRING ADVANCED TECHNOLOGY TO THE MAINSTREAM MARKET



AMADA has released its latest high-power fibre-laser cutting machines, the ENSIS-AJ 6 and 9 kW, which are aimed at any manufacturer needing fast piercing and cutting across a wide range of materials. The new high-power fibre lasers offer a host of specially developed technologies designed to overcome common laser-cutting challenges. Ease-of-use, reliability and a high level of modular automation options also feature, delivering the optimum balance of cost-per-part and cut quality.

Central to the advanced capability of ENSIS-AJ high-power fibre lasers is AMADA's Variable Beam Control technology, whereby the laser beam is automatically adapted to deliver stable cutting across all material types and thicknesses. Variable Beam Control can also change instantly between a high-power density beam for piercing and a high-speed, high-quality beam for cutting, thus reducing cycle time. Regarding set-up times, only a single lens is required to process thin-to-thick materials, helping to maximise machine uptime and eliminate costly operator errors.

AMADA's Auto Collimation technology is a further stand-out feature of the new machines as it delivers unrivalled beam diameter and focus-point control for the highest cutting speeds and surface quality, reducing the need for secondary finishing operations. Auto Collimation also produces a wider cut kerf on thicker materials, making for easier part removal from the sheet to reduce handling time.

"By combining AMADA's well proven Variable Beam Control technology, which we have used since 2014, with our new Auto Collimation technology, the high-power ENSIS models give new and existing customers a significant advantage in a competitive market," says Matt Wood, Senior Product Manager at AMADA Europe.

“In fact, 25mm mild steel can be pierced in as little as 1 second on the 9 kW version, saving significant processing time.”

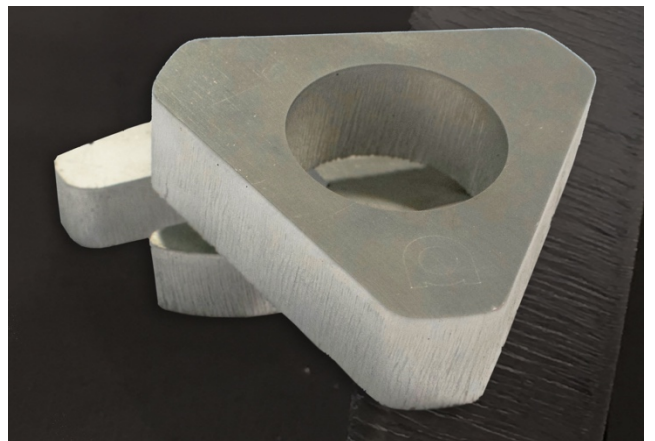
The new ENSIS-AJ 6 and 9 kW machines, which can process mild steel, stainless steel and aluminium up to 25mm thick, offer a number of advanced AMADA functions designed to bring about higher productivity and lower cost per part. By way of example, ECO Cut provides users with low gas consumption during the oxygen cutting of mild steel, while CFC (Clean Fast Cut) offers high speeds in combination with low gas usage when cutting with nitrogen. AMADA’s WACSII (Water-Assisted Cutting System) is also included, enabling users to reliably cut thick mild steel with smaller part spacing on poorer quality materials.

Ease-of-use is facilitated by AMADA’s intuitive AMNC 3i controller, while reliable production is assured thanks to functionality such as the 16-station automatic nozzle changer with auto cleaning and calibration unit, an air-blow system that prevents dust from adhering to the underside of the sheet, and a monitoring system which checks piercing is complete before cutting begins.



There are many automation options available for the ENSIS-AJ 6 and 9 kW machines to help users maximise productivity and save on labour costs. For instance, ASF-EU/ASLUL tower systems will automatically load and unload sheets, offering a very fast sheet changeover time of less than 90 seconds (for the ASF-EU). Also available is the TK-L part-picking system for the automatic collection, sorting and stacking of laser-cut parts without interrupting the machine.

For any laser job shop struggling with longer processing times when profiling mid-to-thick materials on their existing laser, the ENSIS-AJ 6 and 9 kW machines provide the solution. Use of this technology will also introduce extremely reliable cutting across a broad range of materials and thicknesses. Last but not least, as AMADA designs and manufactures both the machines and the fibre engines, customers can rest assured of class-leading service and support moving forward.



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