



SOLUTION

WACS II

WATER ASSISTED CUTTING SYSTEM
SUPERIOR THICK MILD STEEL CUTTING WITH REDUCED COSTS



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Processing thick mild steel creates associated problems of heat soak, due to the power of the laser required and using oxygen as the assist gas. Unlike nitrogen, which helps to cool the material as it cuts, oxygen assists the cutting process by helping to burn through the material. The downside to this is that the material gets very hot and can lead to cutting defects.

Many years ago, AMADA developed its original Water Assisted Cutting System (WACS), where a fine mist of water is sprayed around the nozzle and cutting area, to combat this situation. This provides stable, high quality processing of thick mild steel with increased nesting efficiency

MORE PARTS PER SHEET FOR HIGHER PROFITS

The latest version of this system, WACS II, provides the user with even more control by allowing the amount of water used during the process to be varied. Thinner wall thickness parts can also be processed more easily.

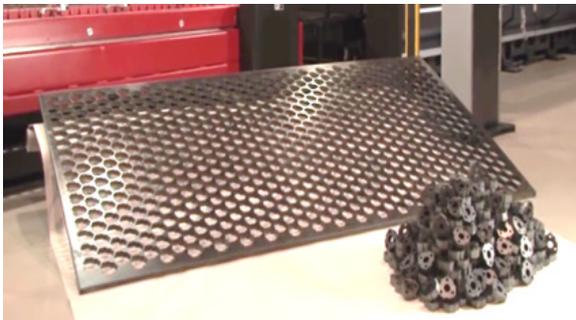


Without WACS II



With WACS II

PROCESSING EXAMPLE



20mm Mild Steel

- Reduced material costs (-12%)
- Reduced defects (30% to 1%)



Note: results achieved may vary depending on material, gases and laser cutting equipment.

MACHINE AVAILABILITY WITH WACS II



ENSIS-AJe* Series



REGIUS-AJe Series



VENTIS-AJe 4kW

** Excluding Standard ENSIS 3kW. Please see the ENSIS-AJe Series brochure for details*

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