



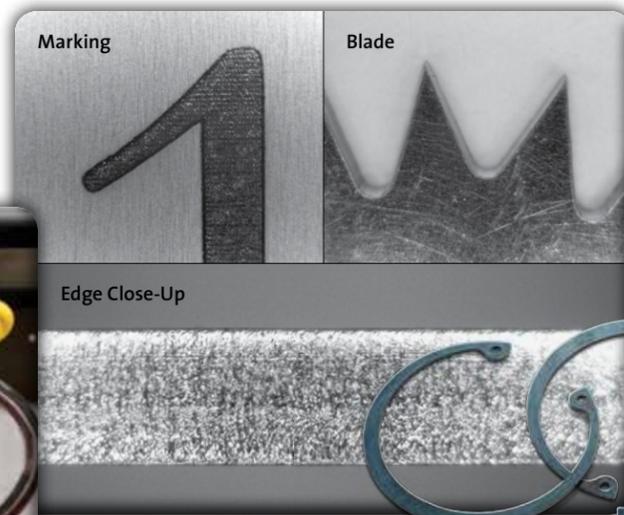
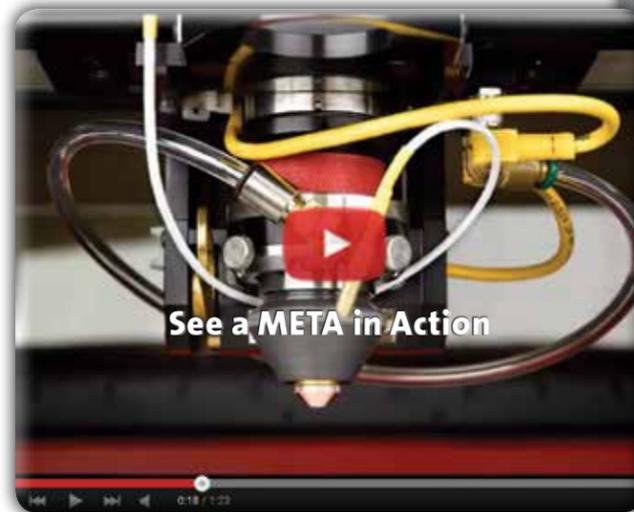
# Lasers Enable Rapid Cutting of Stainless Steel and Much More.

Today's fabricators know that, while high productivity with minimal operating cost is key to profitability, they also need operational flexibility in order to deliver customers a complete solution from within their facility. Optimizing floor space utilization with equipment that can provide broad capabilities is one way to achieve all these outcomes.

Coherent's META series of CO<sub>2</sub> laser-based machine tools are compact systems that perform high speed processing of stainless steel and other metals, including mild steel, silicon steel, and spring steel, and even organic materials, such as plastics and wood. Based on Coherent's sealed, slab discharge, CO<sub>2</sub> laser technology in output powers of up to 1 kW, the high beam quality and unique pulsing characteristics of this laser type deliver cutting characteristics that rival much larger flowing gas CO<sub>2</sub> lasers. But, slab discharge construc-

tion provides dramatically better reliability and reduced cost of ownership characteristics.

META systems utilize a high acceleration flying optics head, together with accurate motion and power control, to enable even the most intricate details to be cut precisely and rapidly in stainless steel in thicknesses of up to 3 mm. Since prior heat treatment of the metal has no effect on the cutting parameters or edge quality, fully hardened steel sheets can be cut with ease, using the same parameters as employed for annealed material.



META machines also incorporate an assist gas delivery system, making it easy to take full advantage of their processing characteristics. For example, nitrogen cutting yields excellent edge quality, and dross-free, clean cut. Oxygen enables higher cutting speeds (as much as two times that for nitrogen) and produces a darkened cut edge.

This can be a useful feature for stainless steel marking applications, since it produces a good contrast mark.

The speed, flexibility, ease of use, and low cost of ownership of Coherent's compact, reliable laser cutters can open up a whole world of possibilities for your operation.

CUTTING WITH NITROGEN Excellent Edge Quality and Dross-Free	CUTTING WITH OXYGEN 2X Faster Cutting Speed and Clean Edge
META 2C: 0.040" (1 mm)	META 2C: 0.080" (2 mm)
META 4C: 0.060" (1.5 mm)	META 4C: 0.1" (2.5 mm)
META 10C: 0.125" (3 mm)	META 10C: 0.125" (3 mm)

To learn more visit <http://CoherentLaserCutter.com> or call 800-527-3786.

# Small Footprint. Huge Impact.

Advanced Laser Cutting and Machining Tool.



For today's fabricators, high productivity and flexibility yield happier customers and better cash flow. Coherent's META laser machines are compact, efficient workhorses that enable rapid, high precision processing of nearly any material, from one offs to high volume.

Explore how a Coherent META tool will help you succeed and improve your bottom line.

Learn More at:  
[CoherentLaserCutter.com](http://CoherentLaserCutter.com)



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