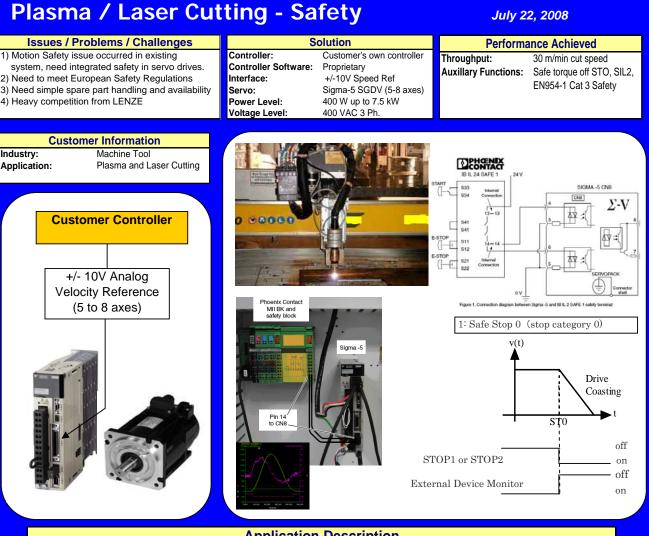
## YASKAWA

## Successful Solution



## **Application Description**

This OEM builds Plasma/Laser cutting machines that cut steel. Throughput depends on the cutting tool used. Experienced a watchdog problem in their own controller which led to uncontrolled motion. Several incidents occurred where the machine crashed because it did not know to stop. Although nobody was hurt, the OEM viewed this as a serious safety concern that needed to be addressed. They requested integrated safety stop in the servo drive to act as a backup if the controller experienced an issue. The result is a safe machine with increased performance. According to the customer, these machines deliver "exceptional, unrivalled" cutting accuracy, productivity and quality throughout the plasma cutting thickness range from 0.75 to 30mm. In combination with its sophisticated process integration, the Sigma-5 delivers the highest quality parts at the most economical price. Machine speeds up to 30m/min. New features provide for Low maintenance and added safety.

Differentiating Solution Features	Resulting Solution Benefits
<ul> <li>20-bit encoder, 1600Hz bandwidth, advanced and intelligent filter and load modeling.</li> </ul>	- Settling time less than 2 msec!
- Built-in Safety features	<ul> <li>Able to meet European Safety Regulations.</li> <li>Motion Stopping interlock prevents human injury.</li> </ul>
- MECHATROLINK-II digital motion network	- Higher performance and data diagnostics
- Globally supported products	- Stock components that are available multi-region

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