

## **A better solution for cast trimming**

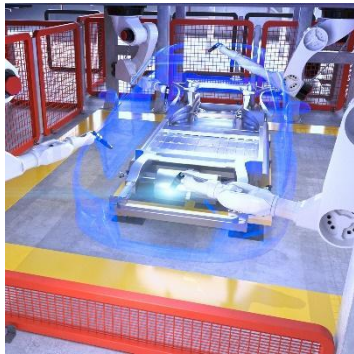
The automotive industry is rapidly evolving due to technological advancements and economic pressures, pushing companies to rethink their manufacturing processes. A key trend is the shift towards mega and giga casts, necessitating advanced cutting technologies.

Traditional cast trimming methods, like trim die presses and mechanical tools, often fall short due to long lead times and lack of flexibility. Plasma arc-cutting systems have emerged as a superior alternative, capable of efficiently trimming gates, runners, and flash from castings. When mounted on industrial robots, these plasma systems offer even greater flexibility and scalability, accommodating variations in torch position and part dimensions while maintaining high cutting speeds.

The automotive industry is increasingly adopting mega and giga casting die presses, driven by the need for greater efficiency and cost reduction. This trend underscores the importance of advanced trimming technologies. Plasma cast trimming, in particular, is ideal for meeting the productivity demands of modern assembly lines.

Hypertherm Associates has become a key partner in this transformation. Major auto manufacturers are integrating Hypertherm Powermax SYNC® plasma cutters into their robotic cast cutting and trimming processes. These tools enhance efficiency and product quality by providing precise and rapid aluminum casting cuts.

By adopting these cutting-edge technologies, manufacturers can streamline their processes, increase profitability, and deliver high-quality vehicles, staying competitive in the market while achieving their business goals.



**Robotic arms equipped with Hypertherm Powermax SYNC plasma cutting systems.**



**Hypertherm plasma cartridge**