

Plasma Express

This system has been designed for medium-small structural steel workshops that cut sheet metal, with a thickness ranging between 1 mm and 15 mm, at low cost.

Because the system is very similar to the Plasma Easy machine, refer to that system for any additional information.

The following is a description of the main features that distinguish this model from the smaller one.

The system consists of a medium-sized CNC gantry machine (up to 4000 x 2000 mm), a plasma cutter with a power rating of up to 100 Amperes, including machine torch and air drier, and software that runs on a remote personal computer connected to the machine by a floppy disk.

Two rack and pinion assemblies and precision prismatic guides drive the carriage along the longitudinal axis. Another rack and pinion unit and the same type of guide are used to move the torch along the transverse axis.



For what concerns torch and piece remote control operations, we offer **two solutions** to meet customer requirements.



In the **first** solution, the height is maintained using support idle spheres that rest on the sheet metal, while a second short-stroke cylinder is used to pierce the metal at a point above the work height.



In the **second** solution, an electronic stand-off controls the plasma arc voltage, while a motor on the vertical axis keeps the torch height constant during the cutting operation..

The cutting speed and, as a consequence, productivity and operating costs will vary depending on the plasma source.

The first solution (that reduces wear on torch consumables) is recommended if a thick plate is cut only occasionally, while the second solution, typical of the "larger" systems, is perfect for more difficult operations.