

THERMAL CUTTING: Technical characteristics

PROGRAMMING
Through integrated CAM interface
Through third-party CAD-CAM installed on board or on external station
Direct by ISO 6983
Integrated CAM interface
Library of typical shapes organized in various categories and with the assisted parameter set-up: <ul style="list-style-type: none"> • Geometry of cutting: radius or arc of circle, length of lines, distances... • Definition of cutting: working from external (Filled piece), from inside (Empty piece), in Continually Filled manner, that is the torch stays active between a cut and the following,... • Parameters of cutting: Attack and Detach from the piece (standard or optimized for saving of material), Compensation of cutting width, Radius of Attack, Overlapping of cut ...
Adding of customized shapes through the programming aids (GIE)
Utilities of programming: Repeating (along X and Y), Scale Rate, Rotation, Mirroring, Alignment (along X and Y) ...
Third-party CAD-CAM
ISO Converter function for the interpretation of ISO programs that are generated for other CNCs
PC system for the running of CAD-CAM
TEST OF CUTTING TRAJECTORIES
Directly on board of the control through the Graphical Simulation function
On external developing station (PC) through the CNC simulation software
Graphical Simulation
As preview of working in order to verify the cutting paths, the compensations and the end-strokes of the machine
During the working in order to verify the executed cuts, the cuts to execute besides to the movements of the torch during the Retrace functioning

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COMPENSATIONS
Cutting width
Misalignment of the sheets referred to the coordinates of the machine and origin
WORKING TECHNOLOGY
Plasma or Oxy-fuel (with the assisted cutting parameter set-up)
Self-acquisition of the pre-heating time (Oxy-fuel)
MANAGEMENT OF WORKING
Recovery from interrupted cutting (Retrace)
Restarting from hole (with and without compensation for sheet deformation)
Restarting from line of program (automatic and manual)
COMPLEMENTARY FUNCTIONS FOR WORKING
Tracing with inking tool
Torch positioning: management of more torches (and of non active torches) and assisted parameter set-up
Self-acquisition of the dimensions of the sheet to cut
Possibility to change the position of entry hole
MANAGEMENT OF PRODUCTION
Record of times of stopping machining due to: Alarms Load/Unload of pieces
Possibility to connect devices for the product tracking
BackUp data