

STANDARD PLASMA APPLICATION

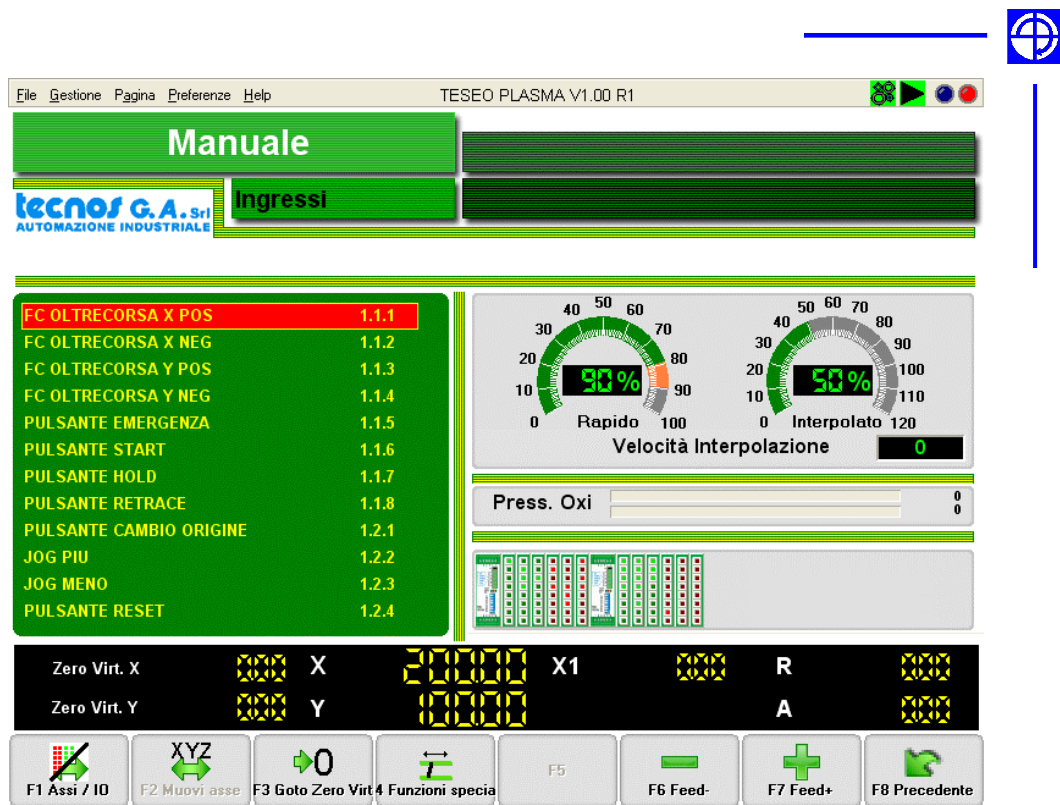
READY FOR USE

Standard Application by Plasma and Flame Cutting is the natural aim of "Project Plasma" and refers to **builders** who wish to manageably set up a numerical control machine designed for the "hot" cutting of steel, especially if new to the industry.

By exploiting a decade of experience in the field, **Tecnos is now able to configure, in real time, the hardware, software and documentation** necessary for carving out a numerical control adapted to the needs of the customer: from the simplest machine, with two axes and a torch, to the multitorch/multichannel with gantry axes, built-in torch height control and remote plasma consoles. The wide range of functions available covers practically every option currently in demand by the cutting technology industry.

Integrating modular hardware and software guarantees the system's upgradability, affording the builder a flexible response to the latest market demands, whilst simultaneously protecting his investment.

Among the system's strong points are its tested and intuitive user interface and a PLC which, operating from a shared base, can either be used "as it is" or can be personalised with the latest specific builder functions.



Another strong point of its configurability is the system's wide choice of operator terminals, allowing the builder to cover segments of the market with products that will guarantee the best value for money.

The ISO programming language means the NC can be programmed using CAD programs for more widespread steel.

Finally, Tecnos continuous investment in the plasma/flame cutting field (Project Plasma) guarantees the adoption of the most advanced industry technologies available.



CONFIGURATION

The builder chooses the desired configuration from the options available. In just a few minutes, Tecnos produces the necessary elements for a "turnkey" control, responding to the specific needs of the customer with regard to user interface, PLC and Hardware component setup. The result is an NC ready for use on the specifics given, and also forms the base for subsequent upgrades or personalisations.

OPTIONS AVAILABLE

Options can relate both to cutting machine operations (therefore specific, such as tool type, number of channels, presence of markers or even a digitally-controlled torch setting) and to user interface auxiliary software modules (e.g. categorisation of cutting parameters, direct control capability from remote consoles, etc.).

The main functions available and the compatible hardware are recapped in the following table:

FUNCTIONS	GENERAL	UR50	UR55
			
Plasma Torch	Anticollision management, cut loss. Restart tester	*	*
Flame cutting	Operation of gas valves, proportional valves, steel thickness	*	*
Multiple Plasma (Max 3)	Handling of plasma with different alignment power	*	*
Multiple flame cutting (Max 8)	Multiple channels for routings Programmable distances.	*	*
Combined plasma (Max 2)	Double plasma for simultaneous routings (parallel/antiparallel) at a programmable distance	**	*
Built-in torch height control	Bend stress regulation	**	*
Plasma Marker		*	*
Gantry Axes	Electrical shaft	**	*
Legend: Multiple plasma=different types of mutually exclusive plasma Multiple flame cutting=flame cutting with simultaneous packer operation. Combined plasma=simultaneous plasma operation. The UR50 and UR55 systems use CAN-OPEN modules in both BLT and classic remote mode.		** exclusive from each other.	

The software functions added to the standard user interface are as follows:

FUNCTIONS	GENERAL
Categorisation of plasma data	Handling of plasma data for the correct setting of curve pressure and cutting distance (only available for Tecnos built-in plasma height control)
Hyperterm(r) Remote Console	Connection to the Hyperterm(r) console enables the control of cutting parameters without direct intervention by the operator.
Work plan rotation	Handling of steel roll not in line with the work plan.
Remote auxiliary terminal.	Operation of some auxiliary functions (manual axes movement, quote control, virtual source) at distance through serial-connected retail terminals.

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