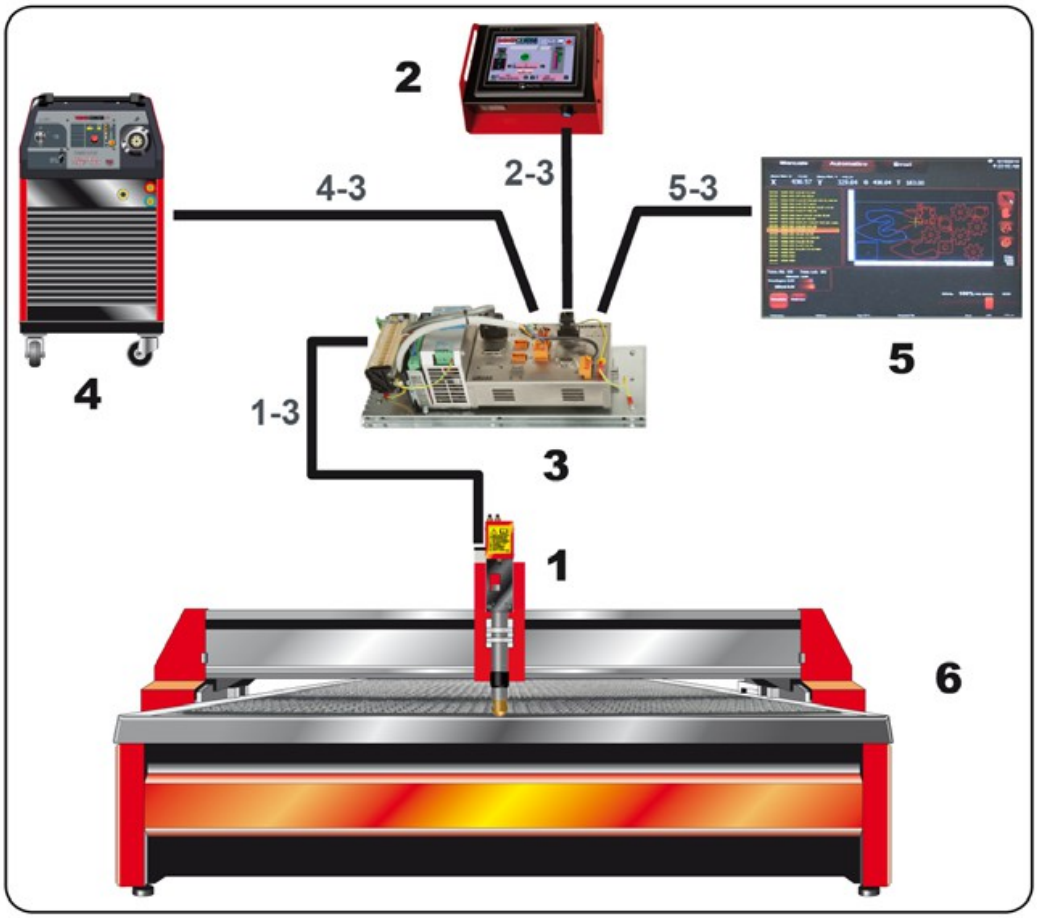
Torch Height Control for Plasma Cutting Machine

This new solution for Torch Height Control has some features really new in the market.
First of all it can work with every type of Plasma generators (Hypertherm, Thermadyne, Kielberg, Cebora ...) and lets the user to load the cutting tables of each one.
In this way the user has only to select the type of material and the thickness, so the Unit of Control will load the correct table of cut and will be immediately ready.
The software is able also to memorize the number of cycle of piercing done by the same set of consumables.
The second main feature is that this system uses a brushless servo motor with encoder resolution, so the Unit odf Control is able to work with 0,01mm of precision.
Third, the Unit of Control has a PLC that lets the user to connect to all types of CN and also to create own cycles using his development tool-kit .
There is also a CAN port supporting DS-401 profile of Can-Open. This connection could be used to connect to other PLC and also to generator that have this connection like Cebora.

FEATURES	DESCRIPTION
SOFTWARE	
Cutting tables paarameters	0,01 resolution
Cutting Arc Signal range	From 0 to 300 VDC
Piercing height manual correction	Directky from the user interface terminal
Cuttiing height manual correction	Directky from the user interface terminal
Consumable life detection	For every sets and type of generators
Working temperature	From 0° to 50°
Corner detection	From external output of the CN

POWER		
Power Suppply	24 V DC	
Power needs	Max 7A/24VDC	
CUTTING FEATURES		
Max speed of movement	8 mt/min	
Acceleration	0,5 mt/sec ^{2}	
Arc Voltage minimum step	1 Volt	
Maximum stroke	250 mm	
Mechanic protection of the torch	With magnetic clamps	
OPTIONS		
Ohmic Contact		
Second Oxi or Plasma Torch		
Connection to external PC		
USER INTERFACE		
Display TFT LCD 800x600	7”	

INTERFACCIAMENTO



LEGENDA:

1) Torch
2) User Interface
3) Unit of Control
4) Generator
5) Numeric Control
6) Plasma machine

CONNECTIONS	FEATURES	NUMBERS
From Unit of Control (3) to Torch (1)	Flexible multipolar cable	1-3
From Unit of Control (3) to User Interface (2)	RS232 cable with MODBus RTU protocol	2-3
From Unit of Control (3) to Generator (4)	Can-Open Cable / Analogic Cable	4-3
From Unit of Control (3) to Numeric Control (5)	Difgtal connectoin between PLCs	5-3

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