AUTOMATION AND ROBOTICS

MIG/MAG PULSED DUAL PULSED

DIGITECH equipment allow a flexible and economic integration with all major welding robots available on the market; thanks to the availability of feeders and versatile interfaces - digital and analogic/ digital – these power sources can be either connected to new robotized equipment or utilized as a retrofit to existing robots.

RBS 15

Wire feeder to be fitted on both hollow wrist robots and traditional ones with external device.

Compact and light (only 6.2 kg) RBS 15 represents the ideal solution for any robotized application, being equipped with a 4 roll feeding mechanism, easily accessible also for roll replacements without any tooling, and having a double solenoid valve for gas and air.

DeviceNet™

EtherNet/IP™

PROFI NET®

MCB 3

Control box for the wire feeder and auxiliary functions purpose-designed to be fitted either inside the power source, or inside the external robot control or even on the robot structure depending on the integrator's needs.

RI-A 1

Analogic/Digital interface. Usable on robots with analogic/digital control.

RI-D

DeviceNet interface. Usable on robots with field bus controller.

SPECIAL PROCESSES

The specific utilization of special welding processes is an ideal choice for automation and allows to optimize specific welding applications, by granting far better performances in terms of quality and welding speed.

SPECIAL PROCESSES (OPTIONAL)
vision.ARC 2, available on ROBOCASE and DIGITECH VP2 equipment, is the support basis in order to weld by means of the herebelow listed special processes, i.e.

STANDARD

vision.POWER for a more concentrated arc and deeper penetration on medium and thick thickness

vision.COLD to weld thin thickness laminations with low heat transfer

vision.ULTRASPEED for high speed welding

OPTIONAL

vision.PULSE-RUN for a colder and faster pulsed welding

vision.PULSE-UP for a quicker and more precise vertical up welding

vision.PULSE-POWER for a more penetrated and smoothly shaped welding on medium large thickness

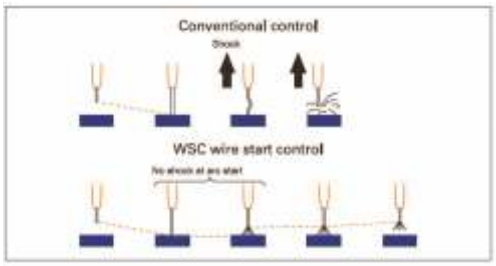
vision.PIPE for a more accurate welding in pipe first root pass

FUNCTION		3300	ROBOCASE 4000	5000
Three phase input 50/60 Hz	V	400 ±20%	400 ±20%	400 ±20%
Input Power @ I_2 Max	kVA	19.5	25.5	31.2
Delayed Fuse (I_{eff})	A	25	32	40
Power Factor / cos ø		0.65/0.99	0.65/0.99	0.69/0.99
Efficiency Degree		0.85	0.85	0.85
Open circuit voltage	V	70	70	70
Current range	A	10 - 330	10 - 400	10 - 500
Duty cycle at (40°C)	A 100%	300	350	380
	A 60%	320	400	460
	A X%	330 (50%)	-	500 (50%)
Wires	ø mm	0.6 - 1.2	0.6 - 1.6	0.6 - 1.6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10		
		S		
Protection Class	IP	23 S	23 S	23 S
Insulation Class		H	H	H
Dimensions	↗ mm	600	600	600
	→ mm	670	670	670
	↑ mm	810	810	810
Weight	kg	98	98	104

FUNCTION		DIGITECH VP2	
		4000	5000
Three phase input 50/60 Hz	V	400 ±20%	400 ±20%
Input Power @ I_2 Max	kVA	25.5	32
Delayed Fuse (I_{eff})	A	32	40
Power Factor / cos ø		0.65/0.99	0.69/0.99
Efficiency Degree		0.85	0.85
Open circuit voltage	V	70	70
Current range	A	10 - 400	10 - 500
Duty cycle at (40°C)	A 100%	350	380
	A 60%	400	460
	A X%	-	500 (50%)
Wires	ø mm	0.6 - 1.6	0.6 - 1.6
Standards		EN 60974-1 • EN 60974-10	
		S	
Protection Class	IP	23 S	23 S
Insulation Class		H	H
Dimensions	↗ mm	660	660
	→ mm	290	290
	↑ mm	515	515
Weight	kg	40	44

WSC - WIRE START CONTROL

This arc striking control device prevents any possible wire sticking to the workpiece or torch nozzle, by always ensuring a prompt and precise arc striking



BURN BACK CONTROL

At the end of each weld, in any condition and with any material, the digital control ensures a perfect wire cut, thus avoiding the formation of the typical “wire globule”, so ensuring the subsequent best arc restriking.

DIGITORCH

DIGITORCH’s allow the operator readily see on the wide torch display and adjust main welding parameters, i.e. welding current, material thickness, wire speed, arc length, electronic inductance and memorized program number. Besides, depending on the selected welding mode, it is possible to switch from one program to the other or increase/decrease the parameters of the synergic curve in use.

SIMPLE AUTOMATION

Standard equipped with analogic-digital I/O, DIGITECH VP2 can be easily integrated into automated welding equipment without any expensive and sophisticated external interfaces usually necessarily supplied for robotics.

ROBOT INTERFACE

DIGITECH VP2 power sources can be easily connected to any Robot by means of a CEA Robot Interface which can handle several analogic, fieldbus digital protocols depending on the features of the Robot to be used.

OPEN TO THE FUTURE

DIGITECH VP2 equipment are systems open to evolving technology: both control firmware and software are designed to be always updatable.

ETHERNET LAN

Possibility of having a special version fitted with an external Ethernet socket to interface the equipment to a remote device and support software.

ACCESSORIES

- Up/Down torches
- CT 70 water cooling and gas cylinder trolley
- WK 2 kit of extra large wheels
- SP feeder sliding supports
- Adjustable torch support
- RC 178 remote control
- HR 30 water cooling equipment

FUNCTION		DIGITECH VP2 3300	DIGITECH VP2 4000	DIGITECH VP2 5000
Three phase input 50/60 Hz	V	400 ±20%	400 ±20%	400 ±20%
Input Power @ I_2 Max	kVA	19.5	25.5	32
Delayed Fuse (I_{eff})	A	25	32	40
Open circuit voltage	V	67	70	70
Current setting range	A	3 - 330	3 - 400	3 - 500
Duty cycle at (40°C)	A 100%	300	350	450
	A 60%	330	400	500
Wires	Ø mm	0.6 - 1.2	0.6 - 1.6	0.6 - 1.6
Standards		EN 60974-1 • EN 60974-5 • EN 60974-10		
		CE S		
Protection Class	IP	23 S	23 S	23 S
Insulation Class		H	H	H
Dimensions	↗ mm	660	660	660
	→ mm	290	290	290
	↑ mm	515	515	515
Weight	kg	35	40	44

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