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CEA

MIG/MAG

made in italy
SINCE 1950





DIGITECH VP4

THE WELDING EDGE

SYNERGIC MULTIPROCESS INVERTER PULSED POWER SOURCES WITH SEPARATED WIRE FEEDER

DIGITECH VP4 (Vision Pulse 4) are the most advanced and top performing multi-process pulse welding equipment of CEA. Developed with the latest CEA arc control software, DIGITECH VP4 obtain incredible quality results with any material in all welding applications.

DIGITECH VP4 are characterized by the new X Vision Plus interface with colour display and a synergic control to automatically determine the best welding parameters, based on the used type of material, the wire diameter and the gas.

DIGITECH VP4



Top welding performance

Technologically ahead and easy-to-use, they offer premium welding quality at high speed in PULSED MIG, DUAL PULSED, MIG-MAG, MMA and TIG with “lift” arc striking. DIGITECH are characterized by a digital interface with 7” colour display and a synergic control to automatically determine the best welding parameters, based on the used type of material, the wire diameter and the gas.



Top Wire Feeding

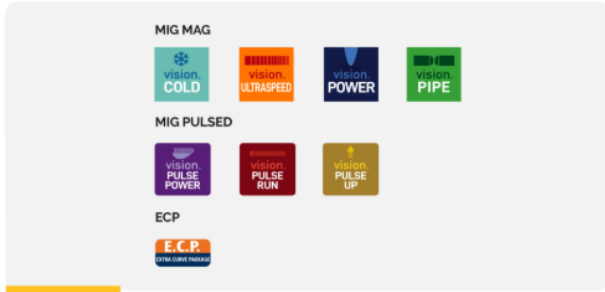
- DOUBLE GEAR wire feeding system
- ERGONOMIC UNLOCKING of the roller fastening system
- EASY ROLLS SUBSTITUTION without any tools
- TWINS ROLLS for welding all wires
- COLOR CODED for instant wire thickness recognition

Other characteristics

- User Interface with LCD colour display to keep under control the whole welding process
- Monitoring and repeatability of the welding parameters
- Ability to partially or totally lock the equipment with access key by password
- “Energy Saving” to operate the power source cooling fan and torch water cooling when necessary
- Up/Down MIG torch
- LAN connectivity to the network via Ethernet or WIFI (Optional)
- Data storing and data printing (Optional)



TECHNICAL FEATURES



VISION.ARC 2

vision.ARC 2 allows the power source control to operate in a more precise and faster way, thus granting an absolute constant arc and a perfect detachment of the droplet, mostly in MIG PULSED and DUAL PULSED.

vision.ARC2 also enables the use of the CEA special vision.Pulsed processes. Main advantages:

- improved arc stability
- optimization of the impulse characteristics
- quick and precise control of the short-circuits
- faster welding speed
- further reduced heat input



DUAL.PULSE

Dual.PULSE favours a further reduction in the heat transfer to the workpiece by minimizing its deformation and it produces premium quality aesthetic beads similar to TIG finishing. Dual.PULSE is extremely useful when welding aluminium and stainless steel.

DIGITECH VP4: SPECIAL PROCESSES

vision.ARC2 enables to weld with the following optional special processes:

MIG MAG

vision.COLD – vision.ULTRASPEED – vision.POWER – vision.PIPE

MIG PULSED

vision.PULSE-POWER – vision.PULSE-RUN -vision.PULSE-UP
E.C.P.

EXTRA CURVE PACKAGE



VISION.PULSE

vision.PULSE allows a constantly controlled short arc pulse welding, by optimizing the results of traditional pulse welding. This enables to reduce the high heat input, typical in pulse welding, with a consequent reduction in distortions, an improvement off the puddle and considerable increase in welding speed too.





WIRE FEEDER HT8 PRO DRIVE

- PROFESSIONAL WIRE FEEDING mechanism with 4 rolls of large diameter for a precise and constant wire driving
- DOUBLE GROOVE ROLLS replaceable thanks to a quick release system without any tool
- LODGING FOR WIRE SPOOLS up to Ø 300 mm
- LED LIGHT in the feeder compartment
- INSPECTION WINDOWS in the spool cover
- HK1 Hanging Kit
- STRONG INDUSTRIAL CASE made to last
- GRADUATED KNOB to achieve the most correct value of the wire pressure cables from the power source to the feeder

DOUBLE FEEDER

DIGITECH in the version with double wire feeder represents the ideal solution whenever a greater flexibility is needed in all applications using two different types of material, wire or gas.

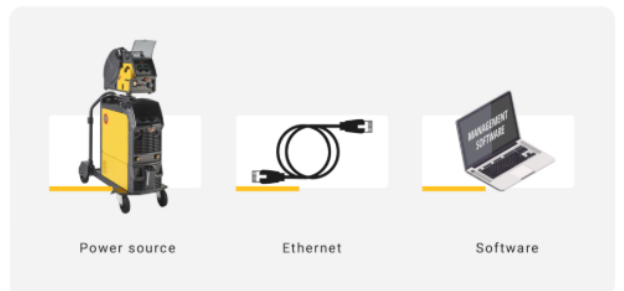


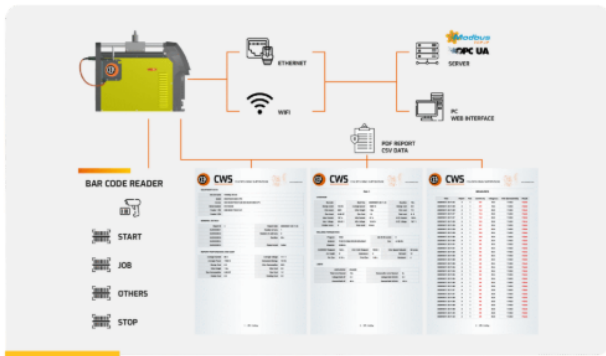
WSC - WIRE START CONTROL

WSC wire start control prevents any possible wire sticking to the workpiece or torch nozzle, by always ensuring a precise and "soft" arc striking.

ETHERNET LAN (VP4)

All CEA DIGITECH VP4 are standard equipped with ETHERNET socket. This feature allows all users to interface the equipment to a remote device and support software.





DIGITECH VP4 FOR INDUSTRY 4.0

These units have the possibility to be connected to an industrial LAN through CWS – CEA WELDING SUPERVISOR (Optional), to satisfy all the requirement of 4.0 industry.

INDUSTRY 4.0 option is available in all DIGITECH VP4 with CWS to allow the transmission of power source data inputs and outputs. The creation of the connection between the generator and the customer's systems is not included and is the responsibility of the customer.



CWS – CEA WELDING SUPERVISOR (OPTIONAL)

CEA WELDING SUPERVISOR is the best solution for recording and storing all welding data and settings from your DIGITECH VP4.

This advanced software offers you the unrivalled advantage of an intuitive web interface combined with precise and usable data collection.

The following is possible:

- Set current and voltage limits
- Read welding data in real time
- Create quality reports
- Export welding data to Excel
- Access the error log page
- Calculate the cost of the welding process
- Select jobs remotely
- Connect to a LAN (e.g. MES) via the MODBUSTCP or OPCUA protocols

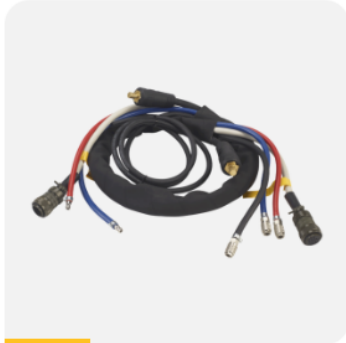


SIMPLE AUTOMATION

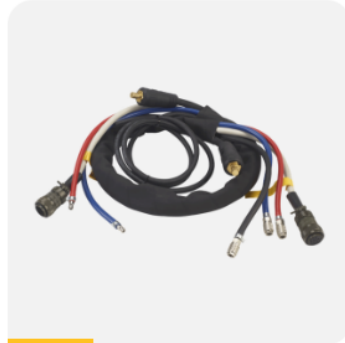
CEA power sources are standard equipped with analogic-digital I/O. This allows to integrate very easily the power source into an automated welding equipment without any expensive and sophisticated external interfaces, usually necessarily supplied for robotics.

Available accessories

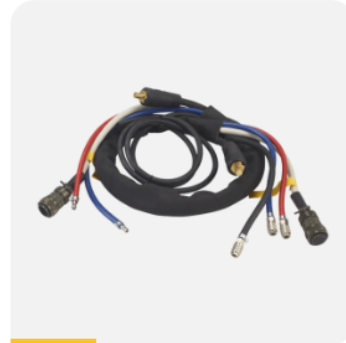
DISCOVER ALL AVAILABLE ACCESSORIES



**INTERCONNECTING
CABLE 1,2 M WATER**
010839



**INTERCONNECTING
CABLE 5 M WATER**
010842



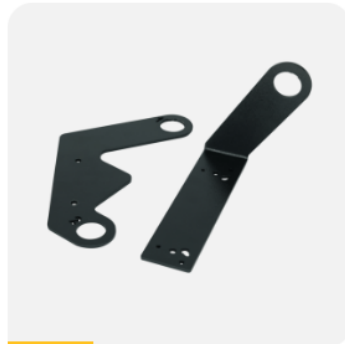
**INTERCONNECTING
CABLE 10 M WATER**
010846



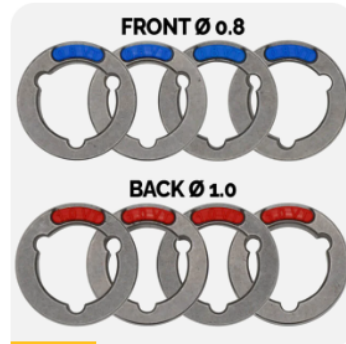
**WK 4 STANDARD WHEELS
KIT**
031116



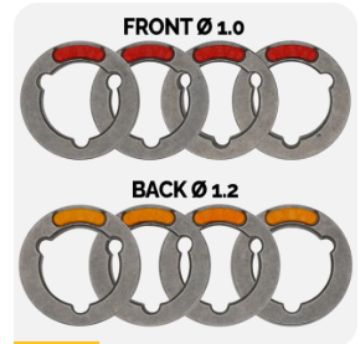
**WK 2 EXTRA-LARGE
WHEEL KIT**
031007



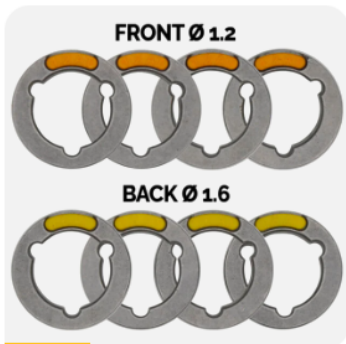
HK 1 HANGING KIT
031117



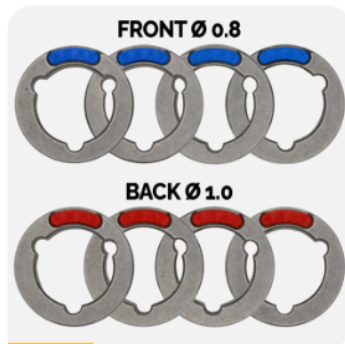
**SOLID WIRE KIT OF
DOUBLE GROOVED TWIN
ROLLS (Ø 0,8/1,0)**
031033



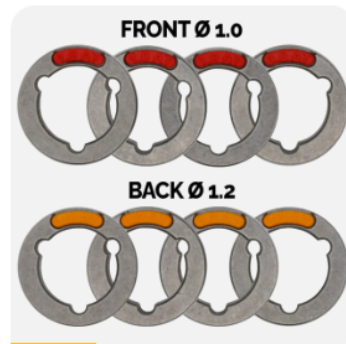
**SOLID WIRE KIT OF
DOUBLE GROOVED TWIN
ROLLS (Ø 1,0/1,2)**
031034



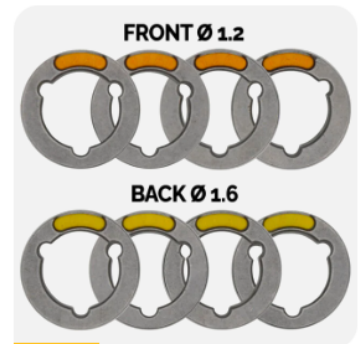
**SOLID WIRE KIT OF
DOUBLE GROOVED TWIN
ROLLS (Ø 1,2/1,6)**
031035



**ALUMINIUM KIT OF
DOUBLE GROOVED TWIN
ROLLS (Ø 0,8/1,0)**
031030



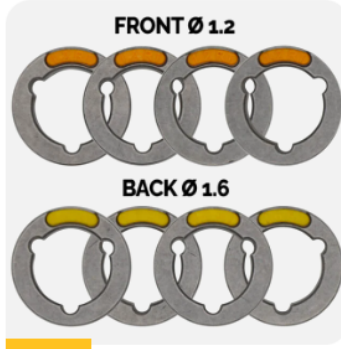
**ALUMINIUM KIT OF
DOUBLE GROOVED TWIN
ROLLS (Ø 1,0/1,2)**
031031



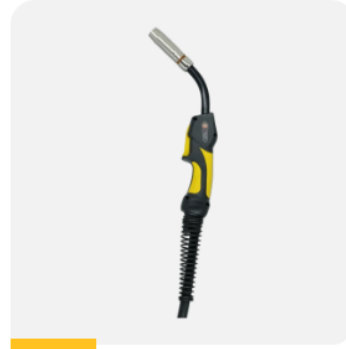
**ALUMINIUM KIT OF
DOUBLE GROOVED TWIN
ROLLS (Ø 1,2/1,6)**
031032



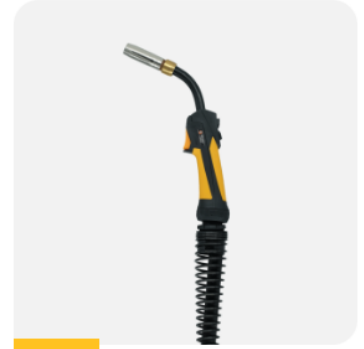
**FLUX CORED KIT OF
DOUBLE GROOVED TWIN
ROLLS (Ø 1,0/1,2)**
030824



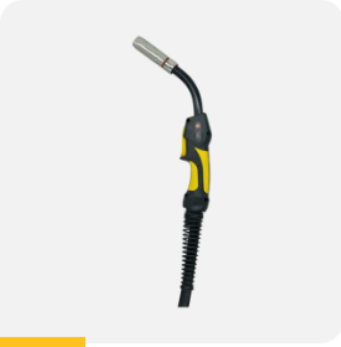
**FLUX CORED KIT OF
DOUBLE GROOVED TWIN
ROLLS (Ø 1,2/1,6)**
030825



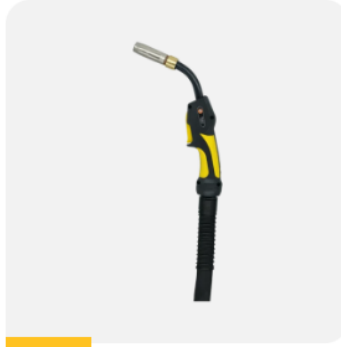
CEA TORCH CX
353/4



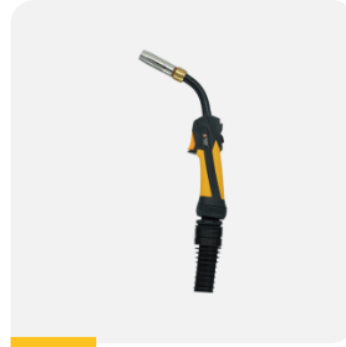
**CEA TORCH CX 353/4
UP/DOWN-17P**
021006



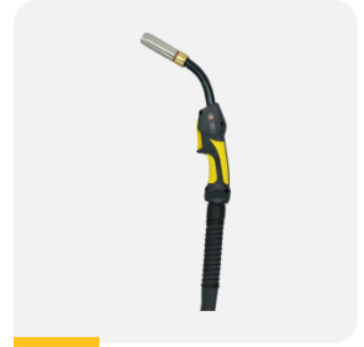
CEA TORCH CX
451/4



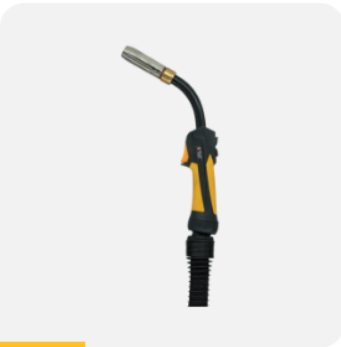
CEA TORCH CXH
302/4



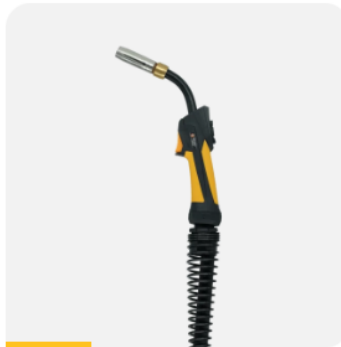
**CEA TORCH CXH 302/4
UP/DOWN-17P**
021005



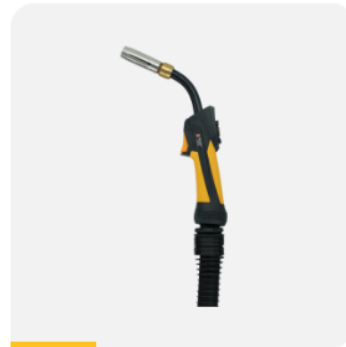
CEA TORCH CXH
402/4



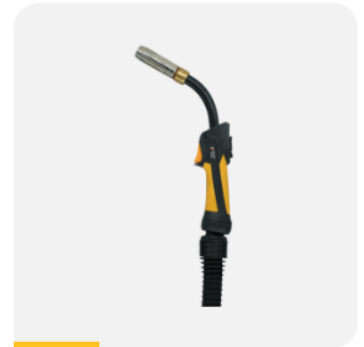
**CEA TORCH CXH 402/4
UP/DOWN-17P**
021007



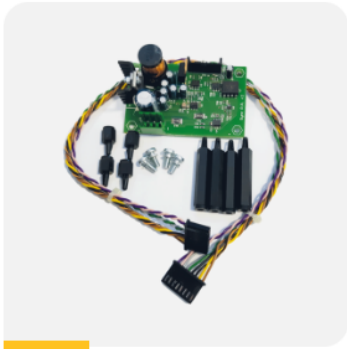
**CEA DIGITORCH DX 353/4-
17P**
021021



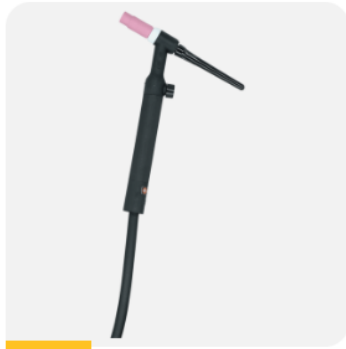
CEA DIGITORCH DXH
302/4-17P
021020



CEA DIGITORCH DXH
402/4-17P
021022



**PUSH PULL
SYNCHRONIZER 24/42V**
031113



CEA TORCH RTX
26.4



HRX 52
032130



**CEA CL-
1100**
40205A



TROLLEY CT 70
234914



TROLLEY PRIME CT
80



TROLLEY PRIME CT
81



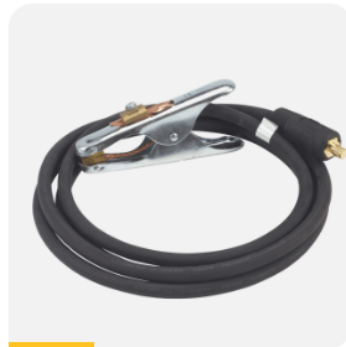
TROLLEY PRIME CT
82



**KIT FOR DOUBLE HT 8
WITH VP4**
031120



BK 1 ACCESSORY BOX
K11



**50 MM² / 4 M GROUND
CABLE WITH CLAMP**
239603



**70 MM² / 4 M GROUND
CABLE WITH CLAMP**
239607



**REDUCER WITH
FLOWMETER AND 1
MANOMETER**

020916



RC 178

236234



**AUTOTRANSFORMER A
13-H 220V/400V-50/60HZ**

020340



**EXTENSION CABLE TO
REVERSE POLARITY**

030903

DIGITECH VP4: TECHNICAL FEATURES

TECHNICAL DATA			DIGITECH VP4	
			4004	5004
Three Phase input 50/60 Hz	V	10% -10%	400	
Input Power @ I2 Max	kVA		22,1	27,6
Delayed Fuse (I eff)	A		32	40
Power Factor / cos φ			0,70/0,99	0,79/0,99
Efficiency Degree			0,88	0,89
Open circuit voltage	V		62	62
Current range	A		10-400	10-500
Duty cycle at (40°C)	A 100%		350	400
	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		23S	
Dimensions (L x W x H)	mm		725x310x525	725x310x525
Weight	kg		45	47



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