



# Cembre



Certified Quality Management System



Certified Environmental Management System



Certified Occupational Health & Safety Management System

## GENERAL CATALOGUE



## QUALITY POLICY AND OBJECTIVES



*This catalogue illustrates the range of our standard products. For each product family we indicate the principal features, and sometimes the most frequent applications and the necessary guidelines for a correct application. Our sales personnel are at your disposal to supply more detailed information and our design and development engineers are available to study new solutions to particular applications.*

On 14th December 1990 Cembre SpA Quality Management System was certified by Lloyd's Register of Quality Assurance (LRQA) according to ISO 9002-1987 EN 29002 - 1987 BS 5750: Part 2: 1987 for the manufacture of insulated and uninsulated copper crimping connectors.

Then on 22nd December 1992 Cembre SpA was certified ISO 9001 for the design and manufacture of cable accessories, electrical connectors and associated tools. The activities of the main premises in Brescia, the Italian regional offices and the subsidiary companies in Great Britain, France, Spain, Germany and USA are governed by a single Quality System, assessed by Lloyd's Register of Quality as conforming to the ISO 9001:2015 norm, for the design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.

This guarantees a homogeneous and high quality level of the products and services that Cembre offers to its customers.

Cembre S.p.A. has recently recognised the need to align its Environmental Management System with the spirit and content of UNI EN ISO 14001 as fundamental to future development.

To achieve this aim the Company undertook a demanding project to assess and evaluate all company functions and processes; from the development and design stage, to raw material selection and finally, the production process itself.

We have reached a new phase in this project as Cembre Ltd, a subsidiary company based in Great Britain, and the second production site of the Cembre Group, have recently achieved certification of their Environmental Management System according to ISO 14001:2015.

Cembre S.p.A. has recently enhanced its business processes with the certification by Lloyd's Register of Quality Assurance, of its Management System for the Health and Safety of Workers, in

accordance with the standard OHSAS18001:2012 (Occupational Health and Safety Management System).

The project, launched in early 2011, was strategically designed to facilitate the active participation of all employees at every level in the application of systems management, in order to optimise compliance of risk management capability with regard to laws and regulations concerning the health and safety of workers. All employees have received exhaustive training and are involved, by exercising their individual responsibility and competence, as key players in the identification of residual risk situations and the proposal of corrective solutions.

For Cembre then, this certification is not only the proper recognition of the quality of work performed, but also an incentive to maintain a determined competitive advantage in increasingly difficult and aggressive international markets.



*All Cembre products comply with Directive 2011/65/EU of the European Parliament and Council dated 8 June 2011 (and subsequent amendment).*



**Cembre S.p.A. factory in Brescia (ITALY)**  
covers an area of approximately 121.000 sqm

**Cembre Ltd.**  
factory in Curdworth (Birmingham)



**Production  
Units**





**HYDRAULIC PUMPS AND UNITS**

# PO7000



Foot operated double speed pump, developing a maximum pressure of 700 bar.

The pump is supplied with 3 m long high pressure flexible hose complete with female self-lock quick coupler. Pressure can be withdrawn at any time during operation by depressing the release lever.

A solid shaped stand gives the pump stability during operation.

## HYDRAULIC PUMP

foot operated

### TECHNICAL FEATURES

Operating pressure bar	700
Dimensions mm	
Length	680
width	200
Height	163
Weight kg	9,8

### STORAGE

Type	VAL-P21
Dimensions mm L x W x H	820 x 430 x 290
Weight kg	6,74
Supplied with the pump	✓
Purchase separately	-



# CPP-0



The CPP-0 air hydraulic power unit intensifies an air supply of 6÷8 bar (87-115 psi) to a power crimping or cutting force of up to 700 bar (10.000 psi) depending upon the input pressure.

The control pedal allows for advancing and pressure release at any stage of the operation.

The unit is provided with a 2 m high pressure flexible hose, including a 3/8" NPT female self-lock quick coupler.

## HYDRAULIC PUMP

foot operated

### TECHNICAL FEATURES

Operating pressure bar	700
Dimensions mm	
Length	320
width	150
Height	200
Weight kg	6,8



## HYDRAULIC PUMP

powered by single-phase electric motor

# CPE-1 CPE-1-110

### TECHNICAL FEATURES

Operating pressure bar	700
Dimensions mm	
Length	372
width	223
Height	482
Weight kg	21

### The pump is supplied with:

- high pressure flexible hose with male and female automatic quick coupler
- remote hand controller
- external supply connection cable



Electrically driven hydraulic pump, powered by a 230V / 50-60Hz single-phase electric motor.

The remote hand controller allows advancement and pressure release on completion of the crimping operation.

The mechanically actuated emergency button located on the pump body allows the pressure release at any time in case of power shortage.

**Also available CPE-1-110 version for 110-115V / 50-60Hz.**

**Both models are IP 55 rated.**

### Available as optional accessories:

- Remote foot controller RCP-B70.
- Transportation trolley CS-CPE-1
- Control handle integrated with 3 m length flex hoses ERCH-WH

ERCH-WH



RCP-B70



CS-CPE-1



# B1300PLE

## PORTABLE ELECTRO-HYDRAULIC PUMP

battery operated



### TECHNICAL FEATURES

Operating pressure bar	729
Dimensions mm	
Length	354
width	103
Height	240
Battery	18.0V 4.0Ah
Weight kg (with Battery)	4,0

### STORAGE

Type	VAL-P51
Dimensions mm L x W x H	690 x 446 x 179
Weight kg	5,5
Supplied with the pump	✓
Purchase separately	-



### The B1300PLE pump is supplied with:

- 0,9 m flexible hose complete with male + female 3/8" NPT self-lock quick couplers.
- 18.0 V - 4.0 Ah Li-Ion high power battery
- Battery charger
- Shoulder strap
- Plastic carrying case suitable for storing the tool and accessories, type VALP51

New portable electro-hydraulic pump B1300PLE is battery operated for independent use.

Having the inherent strengths of the Cembre 18V tool range the B1300PLE is a compact, lightweight pump suitable for a wide range of applications. New Li-Ion 18 V 4 Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action.

A security valve assures operator safety.

Designed with improved handling characteristics, B1300PLE is easily manageable during the operating process and, by the use of bi-component plastics, has a shell with high resistance to wear and damage. Rubber grip inserts, low noise and minimal vibration aid operator comfort while additional convenience and safety are provided by LED lighting of the working area.

Pressure can be released at any time using the appropriate button.

### APPLICATION RANGE

Crimping	Cutting	Punching
up to 130 kN	up to TC 050	RH-FL75 RH-FC48N

# PORTABLE ELECTRO-HYDRAULIC PUMP

battery operated

## TECHNICAL FEATURES

Operating pressure bar	729
Dimensions mm	
Length	364
width	186
Height	236
Battery	18.0V 4.0Ah
Weight kg (with Battery)	5,6

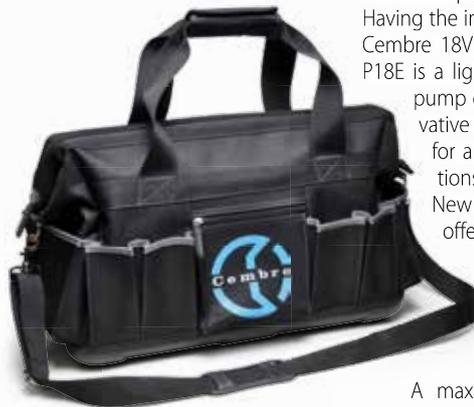
## STORAGE

Type	CVB-031
Dimensions mm L x W x H	580 x 300 x 320
Weight kg	2,23
Supplied with the pump	✓
Purchase separately	



### The B68M-P18E pump is supplied with:

- Remote control provides LED working lights and an OLED display
- 2 m flexible hose complete with rotatable Q14-F quick coupler on the pump and female 3/8" NPT self-lock quick couplers
- 18.0 V - 4.0 Ah Li-Ion high power battery (2 pcs.)
- Canvas bag suitable for storing the tool and accessories
- Battery charger
- Shoulder strap



## APPLICATION RANGE

Crimping	Cutting	Punching
up to 230 kN	up to TC 120	RH-FL75 RH-FC48N

### Example of operating information on OLED display:



Operating mode



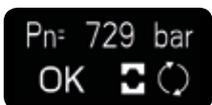
Battery level



Release mode



No. of cycles



Pressure mode



Motor temperature



# B68M-P18E



New portable electro-hydraulic pump B68M-P18E is battery operated for independent use.

Having the inherent strengths of the Cembre 18V tool range, the B68M-P18E is a lightweight high capacity pump equipped with an innovative remote control suitable for a wide range of applications.

New Li-Ion 18V 4 Ah batteries offer a high capacity, while improved operating speed results from a revitalised hydraulic system with double speed action.

A maximum pressure sensor assures greater precision and repeatability of the pressure cycle, while a security valve doubles the provision for operator safety.

The unit has a manual pressure release button in case of emergency. Easy access to the oil reservoir is by means of an oil top-up inlet.



The innovative remote control provides LED working lights and an OLED display of essential real time tool operating information including:

- Operating mode selection
- Release mode selection: Smart release, manual release
- Minimum set pressure and momentary pressure reached expressed in bar allows verification of correct operation
- Battery charge level
- No. of cycles performed
- No. of cycles before scheduled recommended maintenance
- Motor temperature

Designed with improved handling characteristics, B68M-P18E is easily manageable during the operating process and has a fibreglass-plastic shell with high resistance to wear and damage.

The pump features a rubber pocket to store and protect the remote control.

Low noise levels aid operator comfort while additional convenience and safety are provided by LED lighting on the remote control.

Selecting the SMART release mode on the OLED display allows the operating pressure to be maintained until the operating button is released, thus allowing the operator to make a visual check of, say, the crimped connection.

Releasing the button then automatically releases the pressure.

Crimping cycle data (up to 200,000 events) is automatically stored on a memory card for transfer to PC by USB interface located under the battery.

# PORTABLE ELECTRO-HYDRAULIC PUMPS B70M-P24 RANGE

battery operated

- 700 bar
- 24V 3.1Ah
- Ni-MH
- SPEED
- 24 VCC INPUT
- BATTERY DISPLAY
- ONE HAND
- MAX PRESSURE
- RELEASE
- SILENT
- SMOOTH
- ERGONOMIC
- BALANCED
- ENERGY SAVE
- DURABLE
- 15°C to +50°C
- CE

Easily accessible oil top-up inlet



Remote electrical hand or foot controller connection (not KV version)



Remote pneumatic hand controller connection (KV version only)



24V dc external power supply socket with protective cap



High pressure hose connects to automatic self-lock quick coupling with protective cap



Powerful 24V Ni-MH rechargeable battery



Battery residual power level display



Manual pressure release button

Variouly supplied with different versions:



## PORTABLE ELECTRO-HYDRAULIC PUMPS

battery operated

### TECHNICAL FEATURES

Operating pressure bar	700
Dimensions mm	
Length	390
width	163
Height	323
Battery	24V 3.1Ah
Weight kg (with Battery)	9,2*

\*without accessories



### B70M-P24

- 1 Portable electro-hydraulic pump, 24V dc battery for independent use, developing 700 bar pressure; equipped with an integral socket for connection to an external 24 V dc supply
- 2 BH2433 Battery 24V dc 3.1Ah
- 3 DC24 External battery charger
- 4 Shoulder strap
- 5 Canvas holdall for carrying accessories
- 6 3 m flexible hose complete with male + female 3/8" NPT self-lock quick couplers
- 7 ERCH Remote control

## B70M-P24-CH

### B70M-P24-CH

- 1 Portable electro-hydraulic pump, 24V dc battery for independent use, developing 700 bar pressure; equipped with an integral socket for connection to an external 24 V dc supply
- 2 BH2433 Battery 24V dc 3.1Ah
- 3 DC24 External battery charger
- 4 Shoulder strap
- 5 Canvas holdall for carrying accessories
- 9 ERCH-WH Remote hand controller integrated with 3 m length flexible hose complete with male + female 3/8" NPT self-lock quick couplers

### TECHNICAL FEATURES

Operating pressure bar	700
Dimensions mm	
Length	390
width	163
Height	323
Battery	24V 3.1Ah
Weight kg (with Battery)	9,2*

\*without accessories



## B70M-P24-KV

### B70M-P24-KV

- 1 Portable electro-hydraulic pump, 24V dc battery for independent use. Equipped with high dielectric insulated oil and automatic "insulated" lock quick coupler to allow connection only with insulated hoses.
- 2 BH2433 Battery 24V dc 3.1Ah
- 3 DC24 External battery charger
- 4 Shoulder strap
- 5 Canvas holdall for carrying accessories
- 8 PRCH Remote pneumatic hand controller

### TECHNICAL FEATURES

Operating pressure bar	700
Dimensions mm	
Length	390
width	163
Height	323
Battery	24V 3.1Ah
Weight kg (with Battery)	9,2*

\*without accessories



## ACCESSORIES FOR B70M-P24

*purchase separately*

### ESC300CEE

Connecting cable with 24V dc CEE type plug (for power from an external source, length 3 meters)



### ESC600

Connecting cable with crocodile clips (for power from an external source, length 6 meters)



### BPS230.24

network power supply (not for intensive use)  
INPUT 230V ac 50-60Hz; OUTPUT 24V dc  
thermal and short circuit protection.  
Current supply: up to 4A extended use;  
18A for 50 s; 25A for 8 s.



### EPS115-230.24

network power supply  
SUPPLY IN: 110/240V  
ac autorange  
50-60Hz; 700W  
SUPPLY OUT: 24V dc; 30A max



### ERCH-WH

Remote hand controller integrated  
with 3 m length flexible hose



Operating  
push-button

Pressure release button

### TRS-B70

Canvas rucksack  
(for carrying the pump)



### VAL-P18

Durable transport case for pump and  
accessories.



### SH-B70

Hook for hanging the pump  
from a ladder



### RCP-B70

Portable remote foot control



## HYDRAULIC UNIT

# CP1131

pump PO7000 + head RHC131

### MAIN APPLICATIONS - max section sqmm

Section sqmm	0,25-1,5	1,5-2,5	4-6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000	
L.V. lugs and splices																						
Insulated terminals																						
"C" sleeve Connectors																						
H.V. lugs																						
H.V. Splices*																						

\*limited to the cable insulation diameter

These tools are supplied without dies. For die selection, please refer to chart on pages 206 to 220

### TECHNICAL FEATURES

Crimping force kN	130
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	232 x 124
Weight unit kg	13,6

### STORAGE

Type	VAL-P21*
Dimensions mm L x W x H	820 x 430 x 290
Weight kg	6,74
Supplied with the unit	✓

\*Supplied with the unit, suitable for storage of 24 semi-circular slotted dies



## HYDRAULIC UNIT

# CPU1131-C

pump PO7000 + head RHU131-C

### MAIN APPLICATIONS - max section sqmm

Section sqmm	0,25-1,5	1,5-2,5	4-6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000	
L.V. lugs and splices																						
Insulated terminals																						
"C" sleeve Connectors																						
H.V. lugs and splices																						
Alu lugs and splices																						

These tools are supplied without dies. For die selection, please refer to chart on pages 206 to 220

### TECHNICAL FEATURES

Crimping force kN	130
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	245 x 89
Weight unit kg	13,5

### STORAGE

Type	VAL-P21*
Dimensions mm L x W x H	820 x 430 x 290
Weight kg	6,74
Supplied with the unit	✓

\*Supplied with the unit, suitable for storage of 24 semi-circular slotted dies and accessories for crimping Aluminium connectors



# CPU1230-3D



# HYDRAULIC UNIT

pump PO7000 + head ECW-H3D

MAIN APPLICATIONS - max section sqmm

Section sqmm	0,25÷1,5	1,5÷2,5	4÷6	10	16	25	35	50	70	95	120	150	185	200	240	300	400	500	630	800	1000	
L.V. lugs and splices																						
Insulated terminals																						
"C" sleeve Connectors																						
H.V. lugs and splices																						

These tools are supplied without dies. For die selection, please refer to chart on pages 206 to 220

### TECHNICAL FEATURES

Crimping force kN	230
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	290 x 120
Weight unit kg	15,3

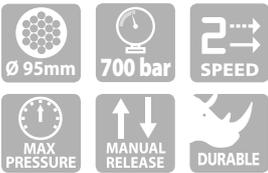
### STORAGE

Type	VAL-P21*
Dimensions mm L x W x H	820 x 430 x 290
Weight kg	6,74
Supplied with the unit	✓

\*Supplied with the unit, suitable for storage of 24 semi-circular slotted dies and adaptors and dies specific for head ECW-H3D



# CP1096



### TECHNICAL FEATURES

Max cutting Ø mm	95
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	397 x 249
Weight unit kg	17,7

# HYDRAULIC CUTTING UNIT

pump PO7000 + head TC096



### STORAGE

Type	VAL-CP096
Dimensions mm L x W x H	785 x 430 x 175
Weight kg	10,0
Supplied with the unit	✓



# CP1120



### TECHNICAL FEATURES

Max cutting Ø mm	120
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	536 x 175
Weight unit kg	19,3

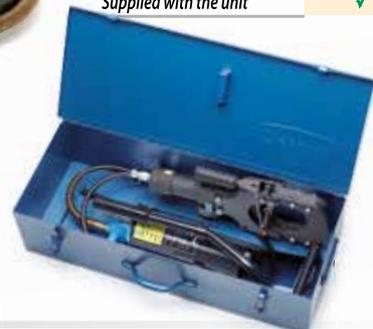
# HYDRAULIC CUTTING UNIT

pump PO7000 + head TC120



### STORAGE

Type	VAL-22-TC120
Dimensions mm L x W x H	766 x 305 x 191
Weight kg	8,3
Supplied with the unit	✓



# HYDRAULIC CUTTING UNIT

# CP-W-KV

according to DIN EN 50340 - VDE 0682 part 661



GS approval  
n. ET 13045

Hydraulic units provide protection against short circuit when accidentally cutting live L.V. / M.V. cables with nominal voltage up to 60 kV.



## CP 1086-W-1000-KV

### TECHNICAL FEATURES

Max cutting Ø mm	85
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	405 x 143
Weight unit kg	16,6



## CP 1096-W-1000-KV

### TECHNICAL FEATURES

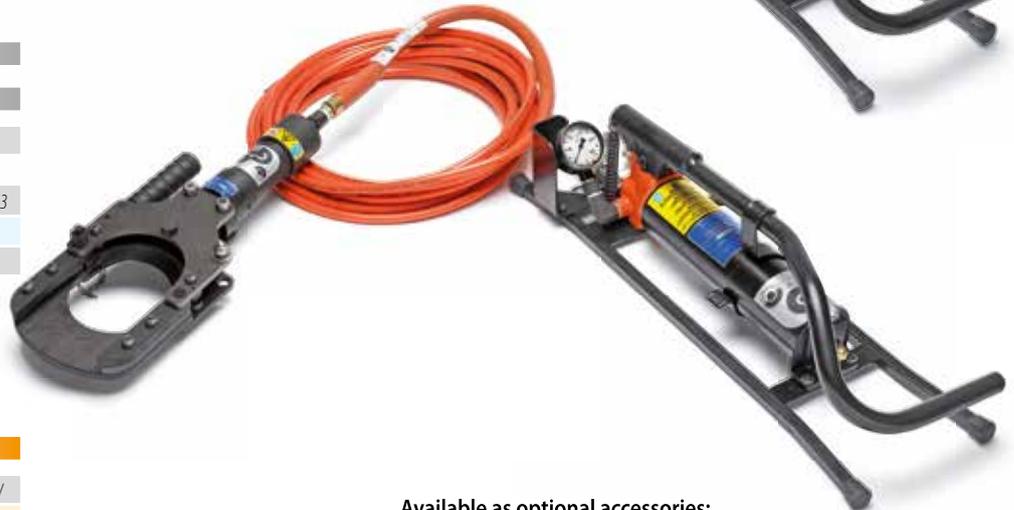
Max cutting Ø mm	95
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	407 x 245
Weight unit kg	19,0



## CP 1120-W-1000-KV

### TECHNICAL FEATURES

Max cutting Ø mm	120
Dimensions mm	
Dimensions pump L x W x H	680 x 200 x 163
Dimensions head L x H	556 x 185
Weight unit kg	20,2



### STORAGE

Type	VAL-CP096-W
Dimensions mm L x W x H	785 x 430 x 175
Weight kg	10,0
Supplied with the unit	✓



### Available as optional accessories:

- EK100 earth cable for the pump (1 m length)
- EK500P earth cable for the head (5 m length) with earth rod and canvas bag



# TF

## Flexible hoses

High pressure flexible hoses for joining hydraulic heads to pumps. In addition to the standard versions listed below alternative hose lengths are available, upon request:



### TF300-Q38FM

3 m length flexible hose fitted with an automatic female quick coupler and a male quick coupler.

### TF600-Q38FM

6 m length flexible hose fitted with an automatic female quick coupler and a 3/8" NPT male threaded bush.

### TF300-Q38F

3 m length flexible hose equipped with automatic female quick coupler at one end and male threading at the other end.

# Q-M, Q-F

## Quick couplers

### standard version



Q14-MS

### Q14-MS

Male automatic coupler for hydraulic heads (1/4" NPT).



Q38-F

### Q38-F

Female automatic coupler for hydraulic pumps and flexible hoses (3/8" NPT).



Q38-MS

### Q38-MS

Male automatic coupler for flexible hoses (3/8" NPT).

# I-F, I-M

### insulated version



I38-F

### I38-F

Female automatic coupler for insulated hydraulic pumps and flexible hoses (3/8" NPT).



I38-MS

### I38-MS

Male automatic coupler for insulated flexible hoses (3/8" NPT).



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*Design, manufacture and sales of electrical connectors and associated tools, cable accessories, marking systems, toolings and products for railway applications. Tools for pressed joints for water, gas, steam, waste and HVAC and related accessories. In house repair, refurbishment and calibration of toolings.*

**Any other country, please contact Cembre S.p.A. - Italy**

[www.cembre.co.uk](http://www.cembre.co.uk)



**YouTube** *This is Cembre*



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