



# 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.*



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

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.



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



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



**Production  
Units**







**BENCH PRESS TOOLS**

Pneumo-hydraulic with interchangeable dies



Pneumo-hydraulic, production bench press, controlled by a foot operated pedal, provides a consistent and reliable crimped connection. Extensive range of interchangeable dies available for crimping a wide variety of connectors.

NOTE: for applications not listed, please contact Cembre.



PNB-1 detail of the crimping zone with PU-1 guard.

### TECHNICAL FEATURES

Nominal operating pressure	6 bar
<b>Dimensions mm</b>	
Width	180
Depth	320
Height	700
Weight kg (without dies)	23

### INTERCHANGEABLE DIES (to be ordered separately)

Die Set	Guard*	Connector Type			Nominal Conductor Size sqmm			
PV-1	PU-1	Insulated Connectors	green	0,2÷0,5				
PR-1			red	0,25÷1,5				
PB-1			blue	1,5÷2,5				
PG-1			yellow	4÷6				
PH1-1	PH-1**	Through connectors PE HD insulated		0,5÷6				
		NL-M, NL-P connectors PA6.6 insulated		0,25÷6				
KE0.75-1	PK-1	End Sleeves	KE, PK...	0,3 - 0,5 - 0,75				
KE2.5-1				1 - 1,5 - 2,5				
KE10-1				4 - 6 - 10				
MTT16-50	ME-1			16				
MTT25-50				25				
N1-1	PU-1	A 03-M..	S 1.5-..	RN-..	0,25 - 1,5			
		A 06-M..	S 2.5-..	BN-..	1,5 - 2,5			
		A 1-M..	S 6-..	GN-..	4 - 6			
ME1-50	ME-1	Uninsulated Copper Lugs		A1-M..	4 - 6			
ME2-50				A2-M.. S10-M..	10			
ME3-50				A3-M..	16			
ME5-50				A5-M..	25			
ME7-50				A7-M..	35			
ME9-50				A9-M..	50			
ME10-50				A10-M..	50			
ME12-50				A12-M..	50			
MN2RF-50				MN RF-1	Polyamide Insulated Lugs		ANE2-M..	10
MN3RF-50							ANE3-M..	16
MN5RF-50	ANE5-M..	25						
MN7RF-50	ANE7-M..	35						
	ANE9-M..	35						

\* Supplied as standard with the machine \*\* Supplied as standard with the die

## BENCH PRESS TOOL

Pneumatic

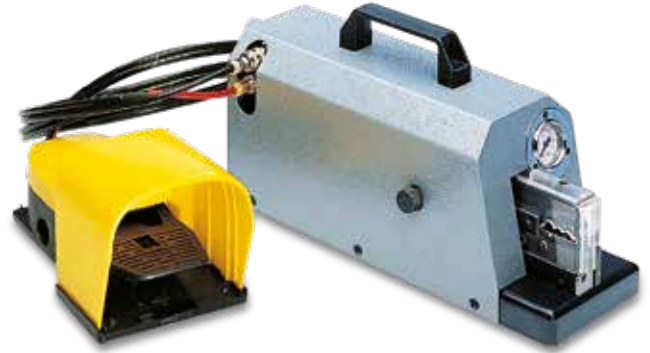
### TECHNICAL FEATURES

Nominal operating pressure	6÷7 bar
<b>Dimensions mm</b>	
Width	130
Depth	370
Height	195
Weight kg	10,3



PNB-3P detail of the crimping zone.

Pneumatic bench press operated by foot pedal for crimping terminals and connectors 0,25 to 16 sqmm.



### BENCH PRESS RANGE

Type	Connector Type	Conductor Size sqmm
PNB-3P*	Insulated connectors red, blue and yellow	0,25÷6
PNB-3PD	Insulated terminals and butt connectors - frontal insertion	0,25÷6
PNB-3N1	Uninsulated terminals	0,25÷10
PNB-3N5	Uninsulated terminals	10÷16
PNB-3NN3	Polyamide insulated terminals	1,5÷10
PNB-3NN4	Polyamide insulated terminals	10÷16
PNB-3F/M	Bullet connectors	0,5÷2,5

\* Will also crimp Polycarbonate fully-insulated terminals if fitted with PNB3F/M positioner, available as an optional accessory.

## BENCH PRESS TOOL

Pneumatic with multi-aperture die

### TECHNICAL FEATURES

Nominal operating pressure	6 bar
<b>Dimensions mm</b>	
Width	120
Depth	160
Height	300
Weight kg	6



PNB-4KE detail of the crimping zone.

Pneumatic bench press, controlled by a foot operated pedal.

Supplied with a multi-aperture die suitable for crimping insulated and uninsulated end sleeves from 0,3 to 10 sqmm.

Compact and efficient. Easy to operate, producing a secure and reliable crimped connection.



### MULTI DIES

Type	Connector Type	Conductor Size sqmm
PNB-4KE	End Sleeves type PK.. and type KE	0,3÷10



Bench press type EPB-1NE, electro-pneumatically operated, is designed for stripping and crimping insulated end sleeves Cembre type PKC, PKD and PKE.

The basic configuration processes connectors of c.s.a 0,5/0,75/1,0 and 1,5 mm<sup>2</sup> with a sleeve lengths of 6, 8, 10 and 12 mm.

Adapter kits are available:

**KIT 2.5-EPB1N**

for insulated end sleeves c.s.a 2,5 sqmm with a sleeve length of 8, 10 and 12 mm

**KIT 4-EPB1N**

for insulated end sleeves c.s.a 4,0 sqmm with a sleeve length of 10 mm  
Stripping and crimping operations are carried out in quick succession. Adjustable loading speed of vibrating charger.

Quick and easy change of configuration for different connector sizes. Automatic adjustment of operating parameters to suit each configuration.

Modular structure and wear-free components guarantee excellent reliability.



Adapter Kit for insulated end sleeves c.s.a 2,5 sqmm  
**(KIT-2.5-EPB1N)**  
**(KIT-4-EPB1N)**



**TECHNICAL FEATURES**

<b>Crimping Range</b>	0,5-1,5 mm <sup>2</sup> (basic configuration)
<b>Dimensions mm</b>	
<b>Length</b>	390
<b>Width</b>	240
<b>Height</b>	490
<b>Peso kg</b>	29
<b>Power Supply</b>	230 V/50 Hz (110 V/60 Hz)
<b>Current</b>	0,5 A
<b>Length of crimp</b>	6, 8, 10 and 12 mm
<b>Geometry of crimp</b>	Trapezoidal
<b>Cycle time</b>	2 s
<b>Compressed Air supply</b>	Min. 4 - Max 6 bar
<b>Air consumption</b>	1,2 l/cycle
<b>Cycle controller</b>	Electro-pneumatic, with microprocessor
<b>Counter</b>	Digital



## PNEUMATIC CRIMPING TOOLS

Hand held - PNB series

### PNB-6KE TECHNICAL FEATURES

Crimping Range	0,25 ÷ 2,5 sqmm / 24 ÷ 14AWG
Dimensions mm	
Length	190
Width Ø	44
Length with spiral hose	2 m
Weight g	450

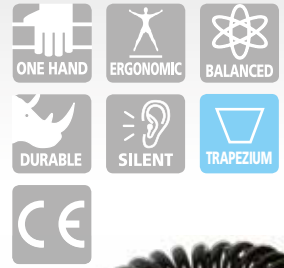
### PNB-7KE TECHNICAL FEATURES

Crimping Range	4 ÷ 10 sqmm / 12 ÷ 8AWG
Dimensions mm	
Length	190
Width Ø	44
Length with spiral hose	2 m
Weight g	450

PNB-6KE and PNB-7KE hand tools facilitate the rapid crimping of insulated end sleeves while avoiding the operator discomfort associated with ordinary manual tools.

Lightweight and easy to use, these tools are ideal for panel building applications and component assembly.

Both tools are designed to be maintenance-free and need no routine calibration. A 4-6 bar air supply is required for connection via the quick coupler fitted to the hose supplied with the tool.



## PNEUMATIC CRIMPING TOOLS

Bench mounted tools with foot pedal - PNB series

### PNB-6KE-T TECHNICAL FEATURES

Crimping Range	0,25 ÷ 2,5 sqmm / 24 ÷ 14AWG
Dimensions mm	
Length	200
Width Ø	135
Height	75
Length with spiral hose	2 m
Weight g	1000

### PNB-7KE-T TECHNICAL FEATURES

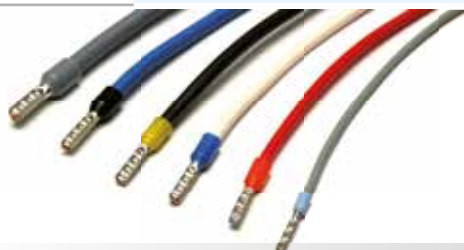
Crimping Range	4 ÷ 10 sqmm / 12 ÷ 8AWG
Dimensions mm	
Length	200
Width Ø	135
Height	75
Length with spiral hose	2 m
Weight g	1000

PNB-6KE-T and PNB-7KE-T have bench mounts with storage and are foot pedal operated to allow operators to have both hands free when assembling cable harnesses.

Both tools are designed to be maintenance-free and need no routine calibration.



A 4-6 bar air supply is required for connection via the quick coupler fitted to the hose supplied with the tool.



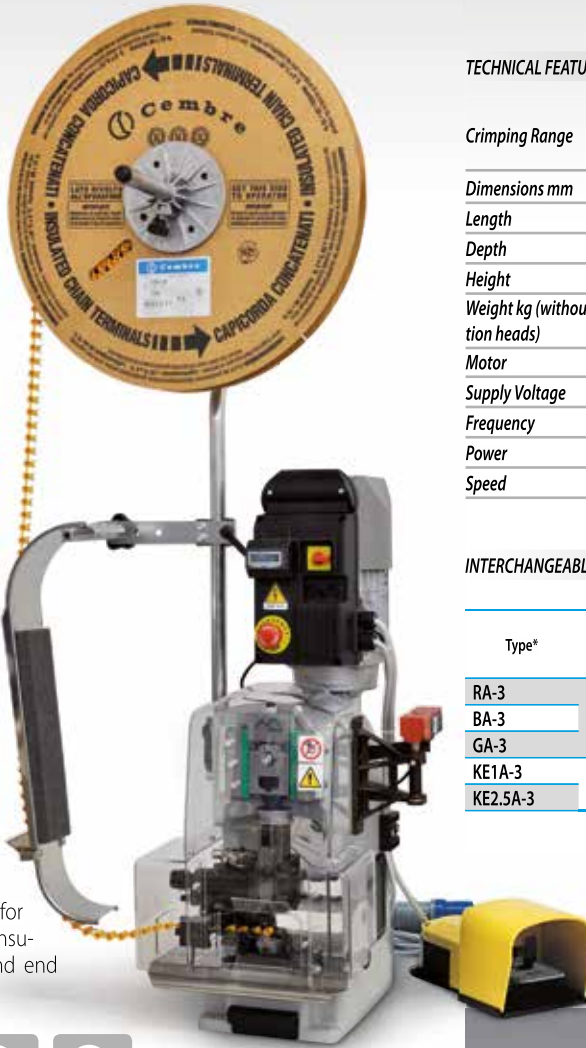


for Polycarbonate insulated chain connectors



Electro-pneumatic, production bench press, controlled by a foot operated pedal. Producing a consistent and reliable crimped connection. Interchangeable application heads available to suit the complete range of Polycarbonate insulated connectors.

See pages 8-9 and 19 for types and features of the insulated chain connectors and end sleeves.



### TECHNICAL FEATURES

<b>Crimping Range</b>	Polycarbonate insulated chain terminals 0,25 ÷ 6 mm <sup>2</sup> and insulated chain end sleeves 0,5 ÷ 2,5 mm <sup>2</sup>
<b>Dimensions mm</b>	
Length	180
Depth	250
Height	620
Weight kg (without application heads)	41
<b>Motor</b>	
Supply Voltage	220 V
Frequency	50 Hz
Power	0,55 kW/0,75 HP
Speed	2.800 g/1'

### INTERCHANGEABLE APPLICATION HEADS, SIDE ENTRY WITH PNEUMATIC FEED

Type*	Connectors	Conductor Size sqmm
RA-3	Polycarbonate insulated chain terminals	0,25÷1,5
BA-3		1,5÷2,5
GA-3		4÷6
KE1A-3	Insulated chain end sleeves	0,5÷1
KE2.5A-3		1÷2,5

\* order as required



Conforms to DIN Standard 46 228/4





Dunton Park  
 Kingsbury Road, Curdworth  
 Sutton Coldfield - West Midlands B76 9EB UK  
 Tel.: 01675 470440  
 Fax: 01675 470220  
 E-mail: sales@cembre.co.uk  
 Web: www.cembre.co.uk



*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)



**You Tube** *This is Cembre*



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