



CEMBRE

B500ND MORE THAN JUST A TOOL,
AN INTEGRATED SYSTEM



B500ND / THE INTEGRATED SYSTEM



Choose the safety provided by an integrated connection system.

For more than 50 years, the CEMBRE name has been synonymous with the highest standards in the development and production of integrated systems for electrical connections.

The integrated system consists of 3 elements: tools, dies and connectors to ensure a secure and reliable connection.

CEMBRE performs continuous research and development to ensure the production of its connection systems has high quality standards, able to meet any new requirements or needs.

This tool was developed to offer the operator high levels of ergonomics, reliability and practicality, making it the ideal solution for performing any task quickly and accurately.

Tool-compatible dies are designed to perform optimal compression of different types of connectors according to **international standards**, such as **CEI EN 61238-1** and **UL 486A-486B, UL486F**.



B500ND / HIGHLIGHTS



Electronic Pressure Sensor (EPS)



Automatic smart return
(Smart Release)



SMARTOOL technology



Multifunction OLED display with
capacitive touch button



STEEL transmission and body



"Bi-Axial" structure of
the tool mechanics



First maintenance at 30,000 cycles



Double speed pumping system



180° swivel head



Working area illuminated by
4 LED lights



B500ND / SMART COMPRESSION



Operational data acquisition technology

Thanks to **SMARTOOL** technology, CEMBRE tools record operating data, work cycles and errors/malfunions on the internal memory. The memory can be read through the CEMBRE software.

Aligned dies - always

CEMBRE "Smart Release" technology stops the engine at the end of the cycle, allowing the piston to automatically retract once the activation button is released. By using the "Smart Release" option, the operator can then verify the correct contact of the dies before releasing the pressure.

Accurate compression

Thanks to the **Electronic Pressure Sensor (EPS)** the accuracy of compression is guaranteed. The operator can check the actual value of the pressure at any time and check for any usage errors.



Parameter display

Using the OLED display, the operator can view different parameters, including:

- Force developed
- Battery charge status
- General operating information
- Number of work cycles
- Number of cycles until maintenance



The battery: constantly monitored

The main battery parameters (temperature/voltage/current generated) are constantly monitored and kept under control.



Illuminated working area

The 4 high-brightness LEDs illuminate the working area and automatically turn off at the end of the cycle.



B500ND / SAFE AND PRACTICAL



Comfort and convenience for the operator

The quality of compression is also related to operator comfort. CEMBRE ND tools have a mechanical centre of gravity to optimise the overall ergonomics of the tool and provide more support for the operator's hand.

Twice as much safety for the user

The tool is equipped with a pressure relief valve as an additional safety feature in addition to the internal pressure transducer (EPS).

No more unintentional start-ups

The ON button is protected to prevent accidental operation.

Sturdy and durable

The steel body provides greater strength and rigidity to the tool.



Dual speed hydraulic actuation

Thanks to the suction and delivery cartridge valve, the tool offers greater uniformity of use, providing controlled dual speed actuation. A rapid approach speed and a slower, more powerful compression speed.

Pressure release

Manual pressure release can be operated at any stage of compression.



No overheating

Constant air exchange helps cool heat-sensitive components.

B500ND / THE CONNECTORS

COPPER

A-M



COMPRESSION CABLE LUGS



UL 486 A-B
certified compression

DR-N



COMPRESSION CABLE LUGS
ACCORDING TO DIN 46235



UL 486 A-B
certified compression

HR-N



COMPRESSION CABLE LUGS



UL 486 A-B
certified compression

T-M



COMPRESSION CABLE LUGS
ACCORDING TO NF C 20-130

Q



COMPRESSION CABLE LUGS
ACCORDING TO DIN 46234

C
BSCL



COLOR CODED CABLE LUGS
AND JOINTS



UL 486 A-B
certified compression

COPPER

ANE-M



PRE-INSULATED CABLE LUGS IN PA 6.6



UL 486 A-B*
certified compression

**Pending*

PK



PRE-INSULATED END SLEEVES IN PA6



UL 486F
certified compression

CA-M/N
PT
CA-M



COMPRESSION
CABLE LUGS AND
FULL TENSION
JOINTS

C-C



JUNCTION CONNECTORS

ALUMINIUM

AAD
DSVA
CAAD-M
MTA-C

ALUMINUM CABLE LUGS AND JOINTS ACCORDING
TO DIN46329 and DIN46267/2 AND BI-METALLIC
CABLE LUGS ACCORDING TO DIN46329



AA-M
CAA-M

ALUMINUM AND BI-METALLIC
CONNECTORS



B500ND / THE DIES



	Connector Type	Conductor cross-section mm ²	Die Type	Impression Type	UL Standard	Standard
COPPER	A-M; L-M		4 - 300	ME..-50	Hexagon	UL 486 A-B
	DR-N; DSV		6 - 300	MK..-50	Hexagon	UL 486 A-B DIN 46235
	HR-N; HSV		6 - 300	MH..-50	Hexagon	UL 486 A-B
	T-M; L-T		4 - 300	MS..-50	Hexagon	NF C 20-130
	Q		6 - 70	MQ..-50	Circle	DIN 46234
	C; CL; CL-D; BSCL		10 - 240	MY..-50	Circle	UL 486 A-B
	ANE-M; ANE-P; ANE-U		10 - 120	MNRF..-50	Hexagon	UL 486 A-B*
	PK; KE		16 - 120	MTT..-50	Trapezoid	UL 486F
	CA-M/N; PT		10 - 100	M..-50	Hexagon	
	CA-M		25 - 200	MMT..-50	Circle	
C-C		6 - 70	MC..-50	Circle		
ALUMINIUM	AAD; DSVA; CAAD-M; MTA-C		16 - 300	MK..B-50	Hexagon	DIN 46329, 46267/2
	AA-M; CAA-M		10 - 240	MK..B-50	Hexagon	
	PRE-ROUNDER		4 - 240	UP..-50	Circle	
	SIZE OF CONDUCTORS		Ø Max 16 mm	WT16-50		

KIT B500ND-1

Kit consisting of:

- Basic tool with battery, wrist strap
- 8 dies (25 to 185 mm²)
- 2 Batteries 18V-2Ah
- Battery charger
- USB cable
- Shoulder strap
- Case suitable for holding 9 sets of dies



The kit includes:

B500ND battery operated hydraulic tool

VALP22 case complete with accessories

8 dies:

ME5-50

ME7-50

ME10-50

ME14-50

ME19-50

ME24-50

ME30-50

ME37-50

Hexagonal impression dies for cable lugs and LV joints from 25 to 185 mm²

*Pending

Cod. 6260784



24V195W



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