



# Cembre



CEMBRE "BILINEAR"  
CORDLESS HYDRAULIC  
CRIMPING TOOL

## B500nd



NEW GENERATION  
18.0 V - 2.0 Ah Li-Ion



B500nd

# B500<sup>nd</sup>

**B500<sup>nd</sup>** is the first of a new generation of hand-held cordless tools, characterised by a “**Bilinear**” mechanical design.

Equipped with a **Smart Release** system which automatically retracts the ram at the end of the operating cycle.

**B500<sup>nd</sup>** is suitable for crimping electrical connectors onto conductor cross sections up to 600 MCM and uses the die sets common to all Cembre 6 tons tools and heads.

Equipped with Li-Ion 18 V-2Ah rechargeable high capacity batteries.

Fitted with a maximum pressure sensor for enhanced precision and repeatability of the maximum pressure cycle, and a pressure relief valve providing additional safety for the operator.

The Electronic Pressure Sensor (**EPS**) guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator about possible errors.

The OLED display provides essential real time operating data, including:

- generated crimping force thus verifying accordance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.

Weight and balance have been reconfigured to yield improvements in handling and convenience.

The more rigid structure of the bi-component plastic body provides greater mechanical protection while its rubber inserts boost operator safety and comfort.



Quieter operation, illumination of the working area via LED lights and a minimum of vibration enhance the tool's practicality.

The integrated memory card enables the user to store data from up to 200,000 compression cycles for transfer to a computer via a USB cable. (**SMARTOOL technology**).

## NEW GENERATION OF CEMBRE “BILINEAR” CORDLESS CRIMPING TOOLS

### Operating features:

- Bilinear mechanical design
- Smart Release system to automatically retract the ram at the end of the crimping cycle
- OLED multifunctional display with touch button
- Electronic Pressure Sensor (EPS)
- SMARTOOL technology for viewing and downloading operational data
- 180° rotating head
- Start button protected against accidental operation
- Manual pressure release button
- Illumination of working area via 4 x LED lights
- Bi-component plastic body
- Ergonomic design for operator comfort
- Li-Ion 18.0 V-2Ah rechargeable high capacity battery
- Battery connection system with release button.

### Optimised battery life

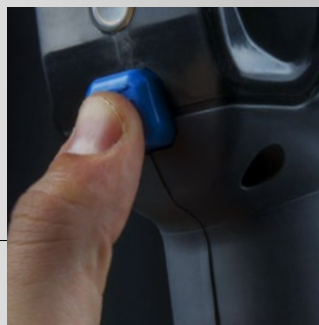
The tool electronics constantly monitors the battery's parameters voltage / current to prevent accidental damage and maximize its duration.



4 LED lighting of the working area



Manual pressure release button



Battery connection system



Anatomical shaping



# New "Bilinear" cordless hydraulic tool *nd* series



## Electronic Pressure Sensor

The EPS guarantees the precision of the crimping operation, checking the actual value of pressure and informing the operator of possible errors.



## Smart Release Technology

"Smart Release Technology" is a new development by Cembre whereby an intelligent oil pressure release system stops the motor at the end of the crimping cycle.

Automatic retraction of the ram only occurs when the operator releases the start button, this allows visual verification of the jaws to ensure that they have fully met prior to releasing.

Similar tools with 'standard' automatic return do not permit this visual verification that full compression has taken place before releasing pressure.

# Technical innovation enhances ergonomic features



## "Bilinear" Structure

Operator comfort and convenience are key factors in producing repeatedly consistent high integrity crimped joints.

Cembre 'nd' bilinear tools have their mechanical centre of gravity nearest to the operator's wrist to optimise the overall ergonomics of the tool and provide a wider support for the hand.

Thus the innovative misalignment between the pump drive mechanism and the hydraulic system both reduce the torque generated on the operator's wrist and best distribute the stresses acting on the hand.



## Data recording and intelligent control allow complete verification of operational parameters

SMARTOOL technology enables the user to store data from up to 200,000 cycles on the integrated

memory card for transfer to a computer via a USB cable

Innovation first and foremost, it's in our DNA.



### New multifunction OLED display with touch button

The OLED display provides essential real time operating data, including:

- crimping force generated, thus verifying compliance with best practice
- battery charge status
- general operating information
- the number of work cycles completed and remaining before recommended maintenance.



### New two-speed hydraulic system

On the new generation of tools, a dual speed hydraulic system has been implemented with the double concentric pumping system and interlocked spring, the original patented solution by Cembre.

Faster compression and greater crimping force result from the new two-speed hydraulic system: a high approach speed which automatically switches to a low crimping speed, ensuring optimal use of the available energy.

### Wide-opening head

Wide-opening head, ideal for derivations from running conductors.

Practical and fast die set insertion and removal system.

The new tool uses the series of dies common to Cembre 50 kN tools and heads.



**General features:**

Type	Rated Crimping Force Tons	MAIN APPLICATIONS - max size AWG				Dimensions in.			Li-Ion Battery	Weight lbs.	STORAGE			
		L.V. lugs and splices	Insulated terminals	End sleeves	"C" sleeve Connectors	length	height	width			Type	Dimensions in.	Weight lbs.	Supplied with the tool
<b>B500<sup>nd</sup></b>	6.7	600 MCM	250 MCM	250 MCM	2/0	15.6	5.3	3.2	18V - 2 Ah	6.6	<b>VAL P22</b>	18.3 x 12.4 x 4.6	3.3	✓



**Supplied with:**

- **CB 1820L**, Li-Ion 18.0V 2.0 A h Battery (2 pcs)
- **ASC 30-36 USA/CAN 27046000**, AC charger (115V). (INPUT 115 V / 60 Hz; OUTPUT 12-42 V DC / 3.0 A max.)
- USB cable
- Plastic carrying case



**New**

**2.0 Ah**



**Li-Ion 18.0V 2.0 Ah High Capacity Battery:**

- Provides 100 % of its energy between +5 and +122°F
- Electronic control of the individual cells to avoid under or overcharging
- AIR COOLED ventilated charging technology for a longer life and shorter recharge time
- Timed auto off switch to optimise energy consumption



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