



Cembre



Certified Occupational Health & Safety Management System



Certified Environmental Management System



Certified Quality Management System

BATTERY RAIL DRILL

LD-16B

ECODRILL



SPECIFICALLY DESIGNED FOR RAILWAY APPLICATIONS

LD-16B

ECODRILL

The new **LD-16B** 36Volt battery rail drilling machine from Cembre attaches the renowned mechanical transmission of our existing machines to a casing newly designed to optimise air circulation around the latest developments in electric motor technology.

ECODRILL features an innovative “drilling assistance” indicator of coloured LEDs which helps the operator to optimise the force to the spindle advance lever applied during the drilling operation and thereby to perform the task within predictable parameters of time and method leading to savings in battery power consumption while increasing the life of consumable cutters.

Time, effort and handtools required to set up the **LD-16B** are dramati-

cally reduced by its compatibility with Broach cutters having either ‘Quick’ push/turn or Weldon shanks, and a front plate which accommodates a new “double-sided” template kit that allows the machine to be located on two different rail profiles by a simple inversion of side plates.

Two powerful LED worklights, perfectly positioned to illuminate the working area, bring enhanced safety and convenience to tunnel or night operations and can be set to function automatically via a control alongside the main Motor switch which itself also provides an indexing function and an interlock to prevent accidental starting.



- 1 Needs no combustible fuel or mains power:**
promotes safe remote working
- 2 Zero Emissions:**
ideal for tunnel and underground works
- 3 Very low acoustic impact:**
allows night work in urban areas
- 4 Low HAV levels:**
helps safeguard operators physical health

MAIN FEATURES

- 1 Needs no combustible fuel or mains power:** the powerful 36V 6.2Ah battery promotes safe remote working
- 2 Zero Emissions:** no fumes to pollute underground and tunnel working
- 3 Very low acoustic impact:** allows night work in urban areas
- 4 Low HAV levels:** helps safeguard operators physical health
- 5 Optimised effort:** LED indication of spindle advance lever force conserves power
- 6 Powerful LEDs light work area:** for precise positioning and safety in the dark
- 7 Integrated battery:** minimises size and weight
- 8 Interlocked switch:** to avoid accidental activation
- 9 Fast fit broach cutter:** compatible with Weldon shank and ‘Quick’ push/turn couplings
- 10 Rapid charging:** 45min for full battery charge



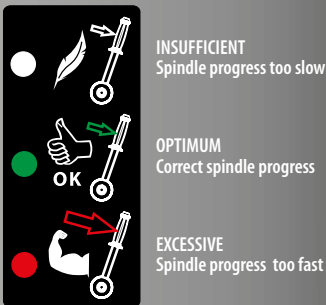
Innovation first and foremost, it's in our DNA



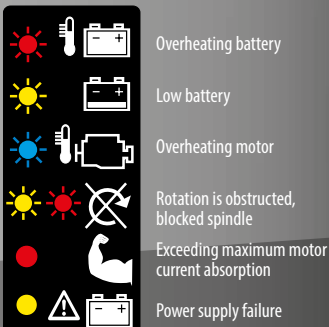
ADDITIONAL FEATURES

- Safety alarms by means of flashing LED indicate: max current absorption, battery undervoltage or wrong insertion, diagnostic issue, battery/motor overtemperature, max continuous operating time reached
- Accepts Weldon shank and 'Quick' push/turn broach cutter couplings
- A special design of the plastic casing optimises motor cooling
- Multi-function operating button: ON-OFF with interlocking and step function for indexing the shaft.

DRILLING ASSISTANCE INDICATORS FORCE ON THE SPINDLE ADVANCE LEVER



ALARM INDICATORS



Assembling broach cutters with "quick" push/turn shank

The drill spindle is factory-set to operate with Cembre CY range broach cutters fitted with "quick" push/turn coupling; use of broach cutters and twist drill bits fitted with Weldon shank only requires disassembly of the **transverse threaded pin** in the spindle.



side flat



transverse threaded pin



Insert the broach cutter into the spindle by positioning it so that the **side flat** lines up with the **transverse threaded pin** within the spindle, then **rotate in a clockwise direction**.

The broach cutter will be locked without the need to tighten the two grub screws.

To disassemble the broach cutter, turn in an anticlockwise direction and remove it from the spindle.

Assembling broach cutters with "traditional" Weldon shank

Using the spindle lever, advance the spindle to make the **transverse threaded pin** accessible then, with the Allen Key, remove it from the spindle.



engaging dogs

grub screws



Using the spindle lever, advance the spindle to make the grub screws accessible; if they are in an easily accessible position, insert the battery and slide the Motor switch forward (**indexing function**) until they are then remove the battery.

Unscrew grub screws and insert the broach cutter into the spindle in such a way that the two **engaging dogs** on the shank of the broach cutter correspond to the grub screws.

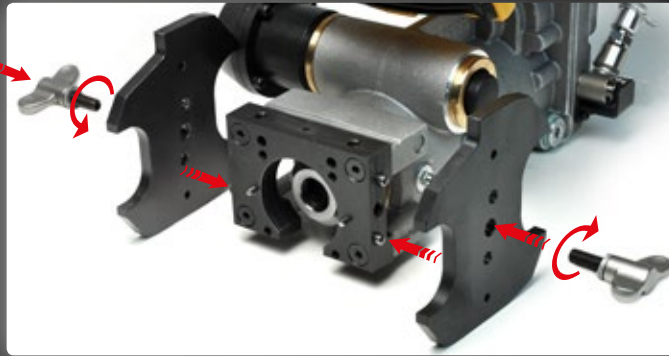
Lock the broach cutter by fully tightening the screws using the Allen key.



To protect the transverse threaded pin, tightly screw it into the "parking hole" on the clamping device.

Fitting the “double-sided” template insert kit

Unlike standard templates for positioning rail drills, **KPAF kits are equipped with a double profile that enables positioning of the drill on two different types of rail by simply inverting the inserts.** They are fixed on the sides of the front plate.



Rotate both inserts to the same side, suited to the profile of the rail being drilled.

Mount inserts onto the sides of the drill front plate by ensuring that the pins match the corresponding holes in the inserts.

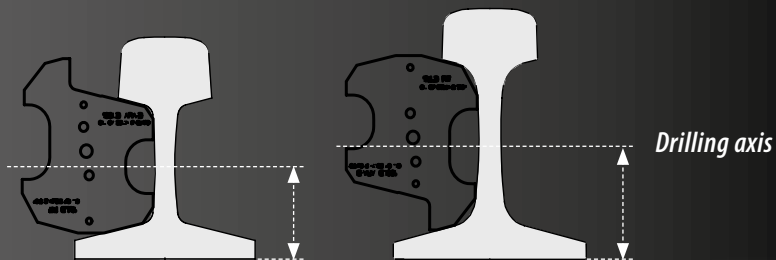
The markings on both inserts should face the advance lever side of the machine.

Secure both inserts by hand using the wing nuts and washers supplied in the ACCESSORIES KIT of the drill.

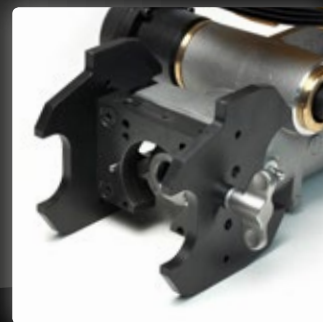


The inserts permit the drill to be positioned on **two types of rail with a specific drilling axis.**

During fitting, ensure that both inserts are facing the correct side, corresponding to the rail being drilled.



The markings on both inserts should face the advance lever side of the machine.



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TECHNICAL FEATURES

- **Drilling range:**
 - Ø7 ÷ Ø13 mm (with Cembre PE range spiral bits)
 - 13 ÷ Ø33 mm (with Cembre CY range broach cutters)
- **Max. railweb thickness:** 50 mm
- **Speed of the shaft without load:** 260 rpm
- **Weight:**
 - drill only: 14,4 kg
 - with battery and clamping device DBG-F2: 18,7 kg
- **Dimensions (LxWxH):** 489 x 261 x 485
- **Battery:** 36 V - 6,2 Ah Li-Ion with LED residual charge indicator



Supplied with:

- **Standard accessories kit**
- **Qty 2 Battery CB 3662L**, 36 V - 6,2 Ah Li-Ion with LED residual charge indicator
- **Battery charger ASC ULTRA EU 27265000**, (Input 220-240 V / 50-60 Hz; Output 14,4-36 V DC / 6,5 A max.)
- **Canvas bag with compartments for the two batteries and the battery charger**



Plastic carrying case with wheels and folding handle type VAL P24-CS
purchase separately for storing and transporting the drill, clamping device and accessories.



New CB 3662L 36 V - 6,2 Ah Li-Ion High Capacity Battery:

- The battery is equipped with LED indicators to show the remaining battery life at any time by pressing the adjacent button
- Provides 100 % of its energy between -15 and +50°C
- Electronic control of the individual cells to avoid under or overcharging
- AIR COOLED ventilated charging technology for a longer life and shorter recharge time
- Quick charging time (45 min) using the ASC ULTRA charger
- Timed auto off switch to optimise energy consumption



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