

## DRILLING MACHINES LD-41P

### *Machinery for drilling tracks and railway equipment*

Cembre Rail Drilling Machines have been specifically designed for use in Railway applications, to provide a consistent and accurate hole, in all types of weather conditions.

Due to their compact size, our drill can save considerable time by allowing direct operation in cases which would normally require removal of obstructions.

Special twist drill bits can be used for hole diameters 7 to 27,5 mm on rail up to 45 mm thick.

Whilst broach cutters can be used for hole diameters 13 to 40 mm on rails up to 50 mm thick.

The drills are provided with a coolant system consisting of a reservoir and pump for use with suitable cooling lubricants.

Connection to the rail drill is by a quick coupler.

The units are lightweight and ideally suited for one man operation.

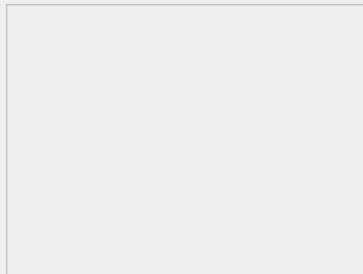


### Typical mounting of drilling machines

#### ***Typical fixing situations:***

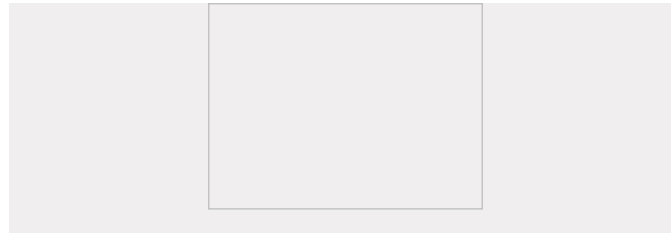
##### **On the Rail Web**

This system is ideally suited to working when the track is under possession or if not under possession when adequate train sighting provision is in place, however removal from the rail can be quickly achieved if so required. Using this arrangement, a hole can be drilled in close proximity to a sleeper.



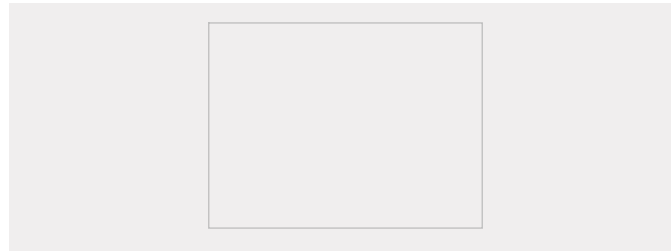
##### **To the Rail Flange**

In this situation the drill slides under the rail and can therefore be left in position during the passage of a train. Work can be carried out either side of the four foot zone.  
*(except model LD-41P)*

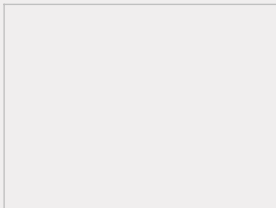
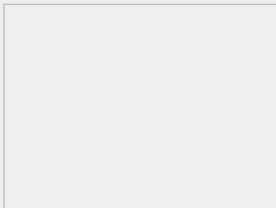


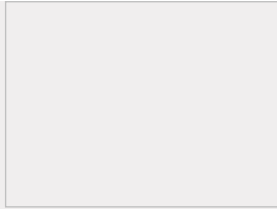
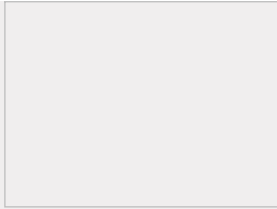
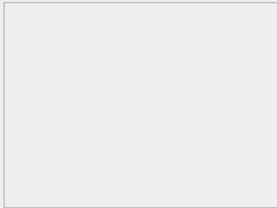
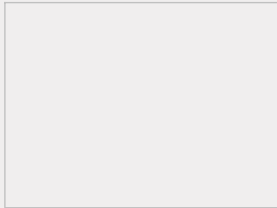
**For Vertical drilling**

This method of fi xing enables vertical drilling for the assembly of attachments to spring tongues and branch plates to switchgear boxes.




Typical applications of rail drilling machines

<p><b>ON RUNNING RAILS</b></p>	
<p><b>STANDARD USE</b>  <b>DBG-F2</b> over rail clamp equipped with <b>TDB- 6</b> termination</p>	<p><b>DRILLING BY THE GUARD RAIL</b>  <b>DBG-F2</b> over rail clamp equipped with <b>TDB- 3</b> termination</p>
	
<p><b>ON GIRDER RAIL (e.g. Ri 60 Np4)</b></p>	
<p><b>DBG-LF2</b> over rail clamp          Specific positioning template <b>MPAF</b>          Use of long broach cutters <b>CYL</b> range</p>	<p>The design of the template (combination) allows positioning on both sides of the rails</p>

	
<b>ON CHECK RAIL</b>	<b>ON CONDUCTOR RAIL</b>
<p><b>DBG-UIC33</b> over rail clamp Specific positioning template <b>MPAF-UIC33</b> <b>SPACER UIC33</b> spacer block Use of long broach cutters <b>CYL</b> range</p>	<p><b>DBG-LF2</b> over rail clamp equipped with <b>TDB-1</b> termination for 150LB conductor rail drilling Specific positioning template <b>MPAF-106LB</b> or <b>MPAF-150LB</b></p>
	

CERTIFICATES 

 BT 2006/42/CE  EN 13977

# DRILLING MACHINES LD-41P

## *Technical characteristics*

### PROPERTIES

Minimum thickness of the rail	7 mm
Maximum thickness of the rail	40 mm
Weight	19.5 kg
Motor power	1 kW
Displacement	35.8 cm <sup>3</sup>
Fuel	unleaded regular grade gasoline
Start	by rope pul
Clutch	centrifugal with automatic intervention
Engine	4 stroke



## DRILLING MACHINES LD-41P

*In the same kit*

### Tools

- Over rail clamp (for use with rail possession) DBG-F2

### Accessories

Adaptor ARE - Adaptor ARE

Range of tools #KIT LD

Allen key 5mm #AK 5	Allen key 6mm #AK 6	Allen key with handle 4mm #AKH 4
Spark plug key #SPK	Swarf brush #SB	

SPACER DPE - Spacer DPE

Coolant unit SR5000 - Coolant unit SR5000

Socket head cap screw #TCEI

Socket head cap screw M6x16 #S TCEI M6x16	Socket head cap screws #G M8x10	Socket head cap screws M6x25 #S TCEI M6x25
--	---------------------------------	---

*On request*

### Accessories

Guard rail clamp DBC	Swarf collector MSC
----------------------	---------------------

Positioning templates for axle counter gauge location holes MSPAF

MSPAF-ACG-BS80A	MSPAF-ACG-109LB	MSPAF-ACG-98LB
MSPAF-ACG-BS113A	MSPAF-ACG-BS95RBH	MSPAF-ACG-UIC60

Templates for positioning rail drills MP

Check rail template MPAF UIC33	Conductor rail template MPAF 150LB	Conductor rail template MPAF-106LB
MPAF 50UNI	MPAF U69	MPAF UIC54
MPAF UIC60	Templates MPAF 35G	Templates MPAF NP4AM
Templates MPAF RI60N		

POSITIONING JIG MRF- - Clamp MRF

SPA/2 - Device SPA/2-HSB

### Templates

**Templates for positioning rail drills MP**

Template for positioning rail drills MPAU      Templates MPDU

**Storage**

**CASE VAL**

Plastic carrying case VAL P24      Plastic carrying case VAL P24-CS      Steel carrying case VAL LD  
 Steel carrying case VAL LD-SR      Steel carrying case VAL MPA

**Tools**

Device for clamping the drill to girder rails DBG-LF2      Over rail clamp DBG-UIC33

**Drill Bits**

**HIGH QUALITY SPIRAL BITS PEAR**

PE130AR      PE170AR      PE190AR  
 PE220AR

**SPECIAL SPIRAL BITS PE**

PE130      PE160      PE220  
 PE80

**Broach cutters**

**CEMBRE BROACH CUTTERS CY - CEMBRE BROACH CUTTERS CY**

**CEMBRE BROACH CUTTERS CYL - CEMBRE BROACH CUTTERS CYL**

*Products used together*

**Accessories**

**POSITIONING JIG MRF-**

Positioning Jig MRF SR-SF      Positioning Jig MRF SR-SFA      POSITIONING JIG MRF U300-S  
 POSITIONING JIG MRF U500-S      Positioning Jig MRFT SRA

*Alternative names for this product*

**SNCF - SNCF IEM 04018**