

DRILLING MACHINES LD-1P-ECO

Machinery for drilling tracks and railway equipment

Cembre Rail Drilling Machines, LD-1P-ECO 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.

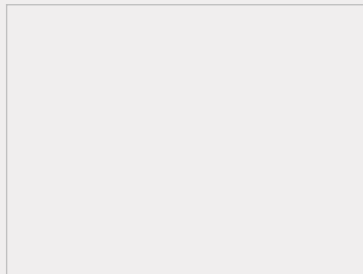


Typical mounting of drilling machines

Typical fixing situations:

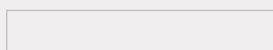
On the Rail Web

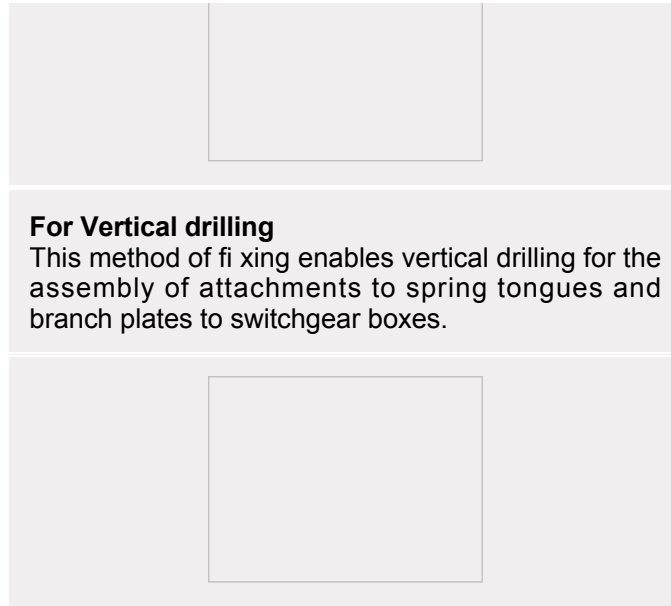
This system is ideally suited to working when the track is under possession or if not under possession when adequate train sighting provision is in place, however removal from the rail can be quickly achieved if so required. Using this arrangement, a hole can be drilled in close proximity to a sleeper.



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.

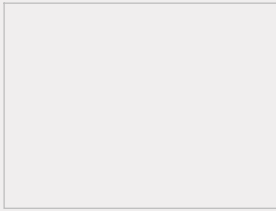
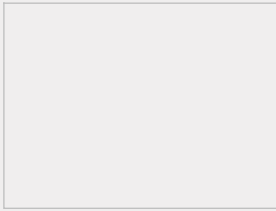
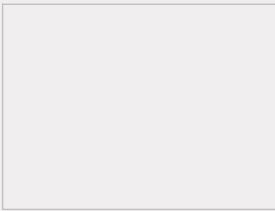
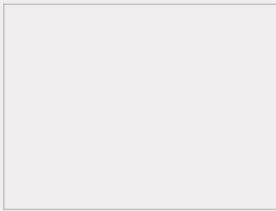


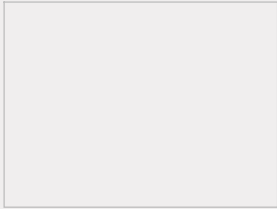
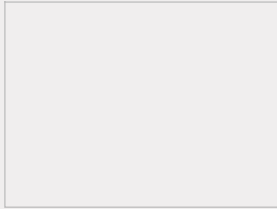


For Vertical drilling

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

Typical applications of rail drilling machines

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

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

CERTIFICATES 

 EN 13977  BT 2006/42/CE

DRILLING MACHINES LD-1P-ECO

Technical characteristics

PROPERTIES

Minimum thickness of the rail	7 mm
Maximum thickness of the rail	40 mm
Engine	2 stroke
Displacement	45.4 cm ³
Fuel	2% oil/petrol mixture
Start	by rope pull
RPM (to the minute)	7500 rpm
Clutch	centrifugal with automatic intervention
Motor power	1.4 kW
Weight	18.9 kg



DRILLING MACHINES LD-1P-ECO

In the same kit

Tools

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

Accessories

Adaptor ARE - Adaptor ARE

Guide bits PP

PP1	PP2	PPL1
PPL2		

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
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Coolant unit SR5000 - Coolant unit SR5000

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

On request

Accessories

Guard rail clamp DBC	Swarf collector MSC	Under rail clamp DBSN
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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

MPSR 100LB-RE-64	MPSR 37JP-53	MPSR 46UNI-64
MPSR 50JP-63	MPSR 50T-64	MPSR R65-94
MPSR S49-64	MPSR S54-63	MPSR S54-68
MPSR UIC54-68	MPSR UIC54-72	MPSR UIC60-68
MPSR UIC60-74	MPSR UIC60-85	Template for positioning rail drills MPAU
Templates for positioning rail drills MP	Templates MPDU	

Vertical positioning templates MPAS

MPAS 35G-GP	MPAS RI60N
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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
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Drill Bits

HIGH QUALITY SPIRAL BITS PEAR

PE130AR	PE135AR	PE170AR
PE190AR	PE210AR	PE220AR
PE240AR	PE275AR	

SPECIAL SPIRAL BITS PE

PE100	PE120	PE130
PE135	PE140	PE160
PE170	PE180	PE190
PE210	PE220	PE70
PE80	PE90	PE95

Adaptors

Adapter APE

APE100	APE120	APE95
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Adapter APED

APED130L	APED70	APED80
APED90	APEDW130	

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