

BDS Rail core drilling machines

Developed for rail core drilling for the signalling and track construction fields.

In the rail processing sector, BDS offers two new and completely redeveloped machines:

The RailMAB 925 with 1,600 Watt motor and 2-stage oil bath gearbox and the RailMAB 960 core drilling machine with petrol engine.

The rail specialists.

The RailMAB 925 and RailMAB 960 are special core drilling machines used in track construction and signalling, for example to drill grounding screws, contact systems and insulated joints.

RailMAB 960 is an electricity-independent rail core drilling machine equipped with a robust HONDA motor. Its performance reaches 1.5 kW at a torque of 3.04 Nm.

Both systems are easily fixed to the rails with a rapid clamping system. In order to ensure the necessary drilling stability, this carries a pressure of 1.2 t on the rail base.

The multitude of optionally available drill adapters greatly increases the flexibility and the ease of use of the two core drilling machines. These adapters automatically determine the height and distance of the core drilling.

The track construction machine range is topped off with the BDS special drills of the carbide RAIL series which have a cutting depth of 30 mm and a diameter of 16 mm to 36 mm.



RailMAB 925 - The rapid clamping system reliably fixes the machine to the rail.

The drill on both machines is lubricated and cooled through an external attachable high-pressure storage tank. Use the cooling lubricant concentrate BDS 6000 to cool and lubricate the machine.



For high demands based on synthetic raw materials.

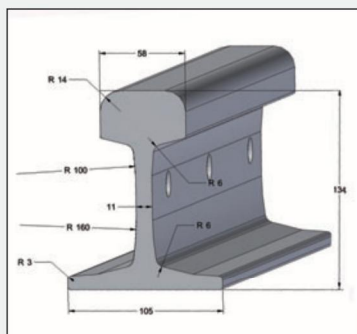
- ▶ Miscible with water, biostable and mild smelling
- ▶ Improves the core drill service life
- ▶ Toxicologically harmless, water hazard class 1



Rail MAB 600 with petrol engine. Performance 1.5 kW, torque 3.04 Nm.

CARBIDE RAIL SERIES

ø mm ORDER NO.	ø mm ORDER NO.
17 HKK-R 017	34 HKK-R 034
18 HKK-R 018	35 HKK-R 035
19 HKK-R 019	36 HKK-R 036
20 HKK-R 020	
21 HKK-R 021	Ejector pin
22 HKK-R 022	ZAK 075
23 HKK-R 023	
24 HKK-R 024	
25 HKK-R 025	
26 HKK-R 026	
27 HKK-R 027	
28 HKK-R 028	
29 HKK-R 029	
30 HKK-R 030	
31 HKK-R 031	
32 HKK-R 032	
33 HKK-R 033	



Rail profile



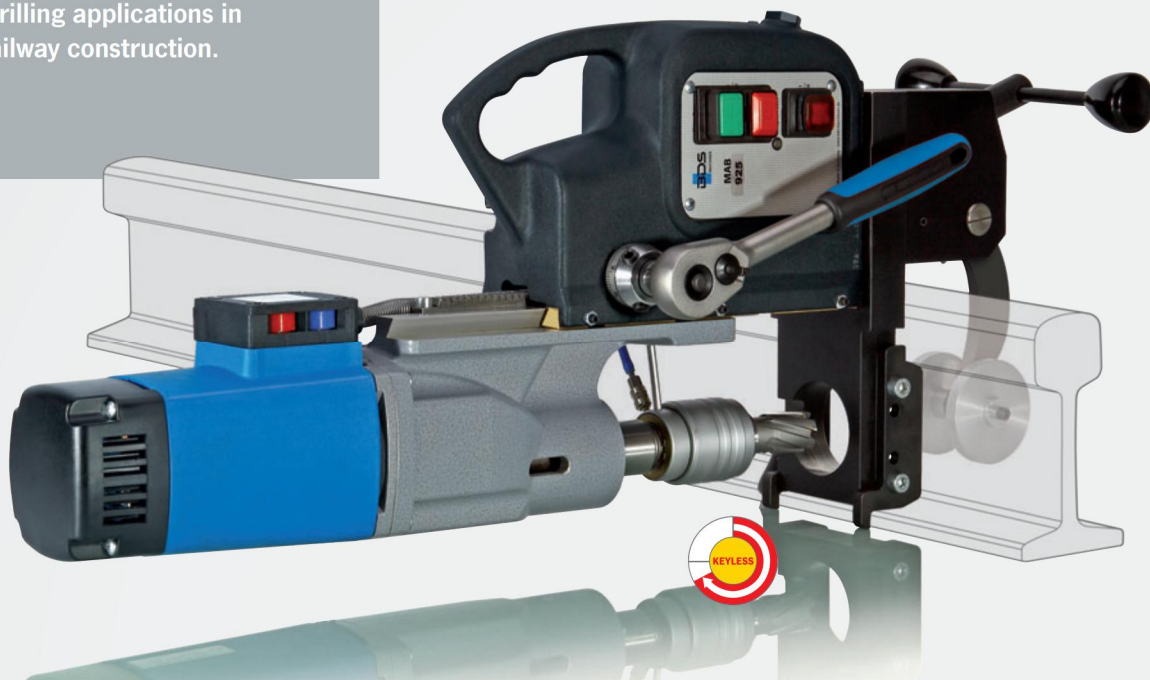
An appropriate adapter for every rail profile.

RailMAB 925







Developed for all rail core drilling applications in signalling technology and railway construction.




The advantages of the RailMAB 925

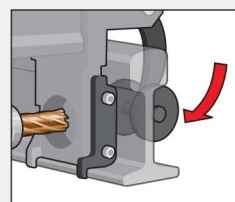
- > Very handy and compact design with 17 kg only
- > With powerful 1,600 Watt motor
- > Low-wear oil bath gear
- > Internal cabling



SPECIFICATION

	Motor output:	1600 Watt
	Voltage:	230 V AC, 50-60 Hz
	Stroke:	160 mm
	Weight:	17 kg
	Quick change drill chuck system:	KEYLESS, 19 mm Weldon ($\frac{3}{4}$ "
	Morse taper:	MT 3
	Speed range 1:	70 – 280 min ⁻¹
	Speed range 2:	180 – 580 min ⁻¹
	Permanent internal lubrication:	✓
	Core drill HKK-R:	ø 17 – 36 mm
	Cooling:	with drilling emulsion
	Torque control:	✓
	Full wave control electronics:	✓

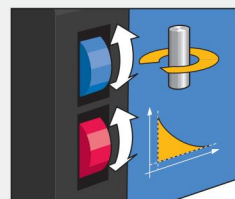
	Overheating protection:	✓
	CW/CCW rotation:	✓
	Carbon brush wear control:	✓



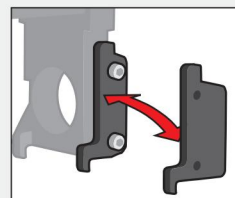
Quick-action clamping system

RAIL ADAPTERS

ADAPTER FOR	ORDER NO.
UIC 50	ZAS 050U
UIC 54	ZAS 054U
UIC 60	ZAS 060U
S 49	ZAS 049S
S 54	ZAS 054S
Custom-made design upon request	



Full wave control electronics with torque control



Rail adapter

ORDER NO.

RailMAB 925 230 Volt
RailMAB 925 110/125 Volt

Technical drawing: Page 42-43

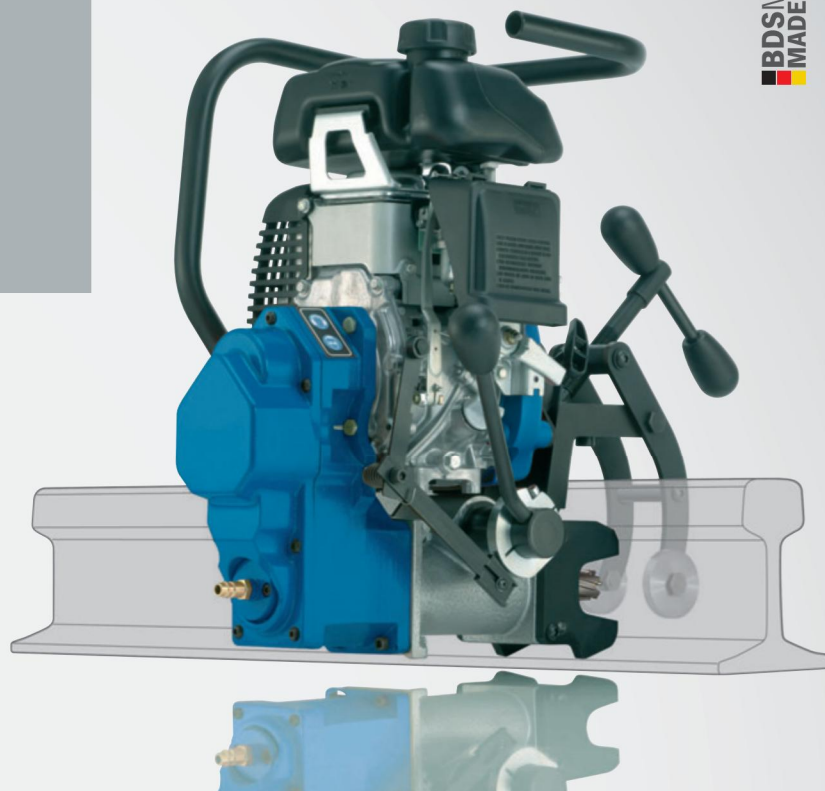
Rail core drills series carbide RAIL: pages 39 and 62.

SCOPE OF DELIVERY

1 Rail core drilling machine	1 Quick change drill chuck system
1 High-pressure tank, 5 litres	KEYLESS, 19 mm Weldon ($\frac{3}{4}$ "
1 Reversing ratchet	1 Drill drift MT 3
1 Rail adapter of your choice (no special version)	1 Carry case
	1 Operating manual

RailMAB 960












Rail core drilling machine with petrol engine.



The advantages of the RailMAB 960

- > Independent of electric power supply at the railway
- > Reliable Honda motor with an output of 1.5 kW
- > With quick-action clamping system

SPECIFICATION

	Motor:	Honda GXH 50
	Cubic capacity:	49.4 ccm
	Output:	1500 Watt
	Torque:	3.04 Nm
	Stroke:	40 mm
	Weight:	21.5 kg
	Direct arbor:	19 mm Weldon (3/4")
	Speed range 1:	min. 150 min ⁻¹ , max. 225 min ⁻¹
	Permanent internal lubrication:	✓
	Core drill HKK-R:	ø 17 – 36 mm
	Cooling:	with drilling emulsion

RAIL ADAPTERS

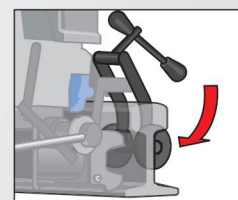
ADAPTER FOR	ORDER NO.
UIC 50	ZAS 250U
UIC 54	ZAS 254U
UIC 60	ZAS 260U
S 49	ZAS 249S
S 54	ZAS 254S
Custom-made design upon request	



Petrol engine 49.4 ccm, 1.5 kw



Core drilling up to ø 35 mm



Quick-action clamping system

ORDER NO.

RailMAB 960

SCOPE OF DELIVERY

- | | |
|---|-------------------------------|
| 1 Rail core drilling machine | 1 Offset screwdriver SW 4 + 5 |
| 1 High-pressure tank, 5 litres | 1 Operating manual |
| 1 Rail adapter of your choice
(no special version) | |

Technical drawing: Page 42-43

Rail adapter images: Page 39