

State-of-the-art technology for subgrade rehabilitation.

Europe's largest supplier of MFS and loading systems.

SUBGRADE REHABILITATION

PM 1000-URM
PM 200-2 R
PM 200-1 BR/C
AHM 800-R
MFS 120/100/40/45
Loading systems
Transfer wagons

State-of-the-art technology for subgrade rehabilitation.
Europe's largest supplier of MFS (material conveyor and hopper units)
and loading systems.

EURAILPOOL GmbH, a German-Austrian joint venture company, founded in 2001.
EURAILPOOL GmbH is your competent partner in all aspects of track-bound subgrade rehabilitation
for rail tracks. We operate four different formation rehabilitation machines and over 130 MFS.
EURAILPOOL GmbH processes full engineering projects with formation rehabilitation.

Top quality for the future of rail transportation

We regard quality as complete correspondence between the characteristics of our services, the
requirements of our customers and the technical regulations.

We consider ourselves to be a service provider, meeting the expectations of our customers under
correct, reliable, safe and environmentally-compatible conditions.

The quality of our company's performance and that of each and every employee is required, both
externally in interaction with customers and suppliers, and within the company in controlling internal
processes. In particular, this is achieved via the implementation of constant self-monitoring as part
of our quality management system.



Die Bahn 
Präqualifikationsnachweis / HPQ

eurailpool machine list



Number	Description
1	PM 1000-URM
1	PM 200-2 R
1	PM 200-1 BR/C
1	AHM 800-R
8	MFS 120
53	MFS 100 thereof 3 MFS 100 S, 1 MFS 100 DS
56	MFS 40
14	MFC 45
7	VLA/MFS 40 – loading systems, transfer wagons
3	VLA – loading systems
10	ULW (Transfer wagons, unloading up to 8,50 m)
12	PK (Portal cranes)
141	BA 251/ BA Bucket wagons (846 troughs)
134	Bucket wagons AHM, thereof 125 2-achs and 9 4-achs

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PM 1000 URM the new standard in subgrade rehabilitation



- Up to 100% recycling of the existing ballast material
- Creation of a new supporting layer using existing material
- Lower disposal costs
- Up to 50% fewer logistical pauses than existing systems
- Higher track availability thanks to shorter periods in possession
- Rehabilitation capacity of up to 1400 metres per day
- 3 excavation chains
- Simultaneous installation of 2 geoplastics possible
- Installation of supporting and protective layer in one operation
- Ballast recycling with high-pressure washing
- Short set-up times

Performance ø – 12 hours	500 m
Max. performance per hour	110 m
Ballast Ecavation Chain – Capacity	300 cbm/h
Excavation width	4.200 - 6.000 mm
Subgrade Ecavation Chain – Capacity	1.000 cbm/h
Excavation width	4.050 - 6.600 mm
Excavation depth max.	1.300 mm
Installation height up to	600 mm (PSS/FSS)
Installation height, track formation layer	300 mm
Material supply (container wagon backwards)	BA 255
Evacuation (to the front)	MFS 100

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PM 200-2 R Newest generation of formation rehabilitation



The PM 200-2 R is a subgrade rehabilitation machine, which is particularly advantageous in the case of severely soiled ballast. It is the first machine which recycles the ballast according to TL DB AG. The ballast, which has been pre-cleaned using finger and vibrating screens, is additionally washed in a ballast washing system if necessary. This is carried out in a closed-loop water circuit within the machine. The ballast and earthen subgrade are removed using 2 excavating chains. Installation of the formation layer and the recycled ballast is also carried out in one operation, adding new ballast as filler ballast. The integrated tamping unit is used to tamp the rehabilitated track, which can be driven over at 70 km/h.

Performance ø – 12 hours	400 m
Max. performance per hour	110 m
Ballast Ecavation Chain – Capacity	300 cbm/h
Excavation width	4.200 - 6.000 mm
Subgrade Ecavation Chain – Capacity	800 cbm/h
Excavation width	4.050 - 6.600 mm
Excavation depth max.	1.200 mm
Installation height, gravel/sand up to	500 mm
Installation height, track formation layer	300 mm
Material supply (backwards)	BA 255
Evacuation (to the front)	MFS 100

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PM 200-1 BR/C formation rehabilitation in modular design



A formation rehabilitation machine in modular design. It can be optionally used to completely renew ballast, clean ballast or produce grade 2 mixture from existing, old ballast in combination with track-bound formation rehabilitation. It can be used in periods of possession of 7 hours and over.

Formation rehabilitation with complete renewal: Removal of ballast which cannot be recycled/cleaned and removal of the subgrade. Installation of new or externally recycled ballast and new formation layer in one operation.

Formation rehabilitation with ballast cleaning: Removal of the old ballast and cleaning using the RM module. Removal of the subgrade, installation of new formation layer and the cleaned ballast in one operation.

Formation rehabilitation with ballast recycling to form formation layer material: Removal of the ballast using the RM module. Ballast crushing using the conical crusher and mixing with new material to form the formation layer. The new ballast is installed in a separate operation.

	Complete renewal	Ballast cleaning	Ballast recycling
Performance \varnothing – 12 hours	220 m	330 m	400 m
Max. performance per hour	30 m	45 m	60 m
Ballast Ecavation Chain		100 cbm/h	135 cbm/h
Excavation width		4.000 - 4.400 mm	4.000 - 4.400 mm
Subgrade Ecavation Chain	250 cbm/h	350 cbm/h	450 cbm/h
Excavation width (all models)		4.200 - 6.000 mm	
Excavation depth max.	1.200 mm	1.200 mm	1.200 mm
Installation gravel/sand up to	500 mm	500 mm	500 mm
Installation track formation layer	300 mm	300 mm	300 mm
Material supply (backwards)	BA 255	BA 255	BA 255
Evacuation (to the front)	MFS 40/100	MFS 40/100	MFS 40/100

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AHM 800 R for sections in which grade 2 mixture is installed



The AHM 800-R is used on sections in which grade 2 mixture is installed. It is able to remove the ballast with the ballast excavating chain, crush it on the machine, mix it with new material and re-install it as a formation layer/frost layer. Installation of the new ballast is carried out in a separate operation.

Performance ø – 12 hours	300 m
Max. performance per hour	60 m
Ballast Ecavation Chain – Capacity	300 cbm/h
Excavation width	4.000 - 4.600 mm
Subgrade Ecavation Chain – Capacity	500 cbm/h
Excavation width	4.030 - 6.000 mm
Excavation depth max.	1.390 mm
Installation height, gravel/sand up to	500 mm
Installation height, track formation layer	300 mm
Material supply (container wagon backwards)	12 or 24 cbm
Evacuation (to the front)	MFS 100

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MFS 120/100/40/45



The material conveyor and hopper units serve both to supply material and to transport the excavated material away without using the adjacent track. Loading is carried out using a wheel loader or excavator via a loading station or directly into the MFS. The excavated material is unloaded to temporary storage sites or onto K wagons via swivelling conveyor belts.

	MFS 120	MFS 100	MFS 40	MFC 45
Length over buffers	22,90 m	22,90 m	18,30 m	17,94 m
Total weight	62,00 t	51,00 t	37,00 t	50,00 t
Operating weight max.	180,00 t	144,00 t	93,00 t	107,50 t
Volumetric capacity	120 cbm	100 cbm	40 cbm	45 cbm
Loose material	70 cbm	64 cbm	32 cbm	38 cbm
Pivoting range	5,61 m	5,40 m	4,35 m	4,50 m

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VLA/ULW MFS 40 with integrated Loading Unit



The VLA serves to round off the product range. It is used to dig up the edge paths in front of a formation rehabilitation machine. If necessary, the loading belt is extended from the MFS. The transfer wagon serves to load the excavated material at a distance of up to 8.50 m away from the track axis.



Performance	1,5 cbm/min
Width hopper	2.200 mm
Heights hopper	1.200 mm

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