MPL-121-08(D)

HEAVY EQUIPMENT TRANSPORT TRAILER

The MPL-121-08(D) is a hydraulically steered semi low loader with 8 pendulum axle lines, developed to military specification for a safe and efficient transport of heavy tracked and wheeled vehicles in demanding conditions. With a technical gross vehicle weight of up to 121,000 kg and a payload of 92,000 kg, this trailer combines high capacity with a design that explicitly addresses defence requirements such as off-road capability, compatibility with military tractor units, load securing, and operational suitability within military logistics chains.

OFF-ROAD MOBILITY

The design enables a large suspension travel of 600 mm and features a hydraulically movable gooseneck. The gooseneck is adjustable in height and hydraulically connected to the first three axle lines. This ensures sufficient fifth-wheel load applied to the truck, allowing the truck to always maintain traction on very uneven terrain.

MAXIMUM PAYLOAD FLEXIBILITY

The trailer is equipped with multiple adjustable track guides to safely guide the tracks of armoured vehicles during loading. Their wide adjustment range enables fast and accurate loading of a broad variety of tracked vehicles. Adjustable and removable wheel chocks allow wheeled vehicles to be safely secured and precisely positioned.

INTEGRATED RECOVERY SOLUTION

The trailer is designed to support demanding military loading, efficient handling and recovery in the field. Rollers and sheaves support two winch layouts, guiding winch cables from the truck to the loading platform of the trailer. The trailer is fitted with a platform and railing on the gooseneck, enabling safe winch operation by remote control. The ramps can be hydraulically adjusted in width, allowing adaptation to different vehicle track widths. The hydraulically operated support legs are fitted to stabilize the trailer and absorb loads during loading and unloading of heavy vehicles.

STEERING

Manual axle steering is possible independently of the tractor unit via wireless remote control. Furthermore, the axles can easily be automatically aligned using the ASA (Automatic Straight-Ahead Alignment) system.

NOOTEBOOM
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RHEINMETALL

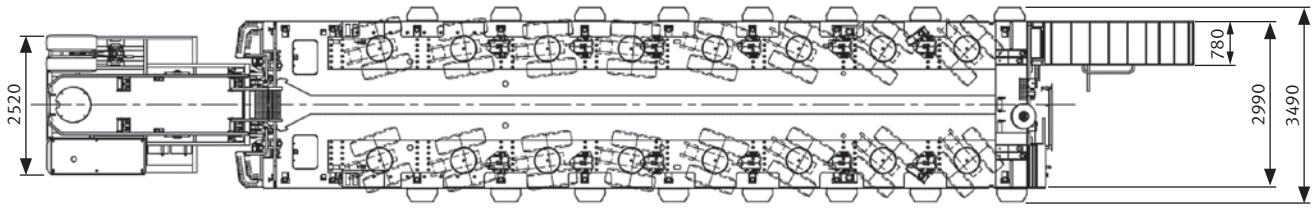
SELECTED HIGHLIGHTS

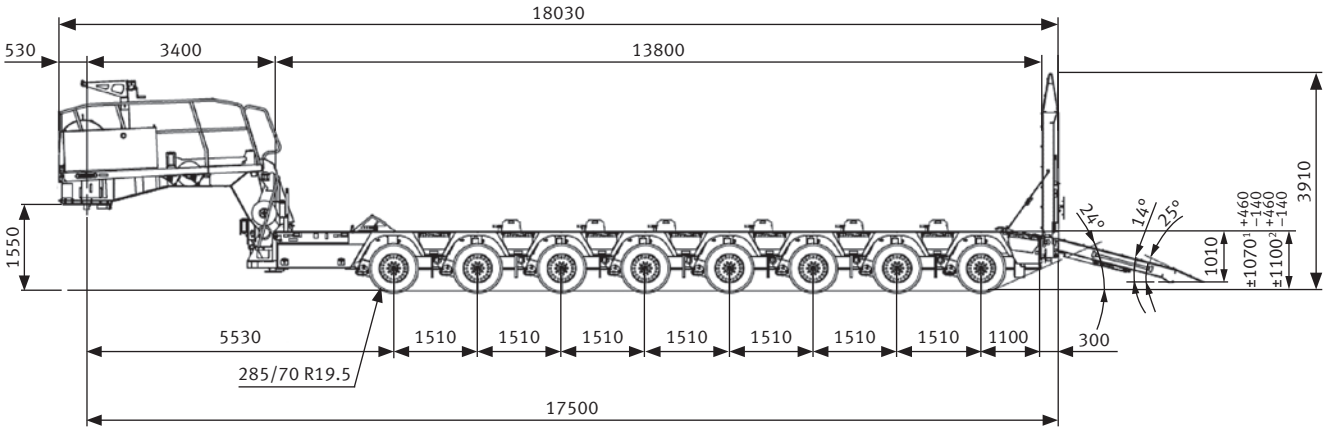
- NATO-oriented design for full interoperability
- Mission-ready: off-road, climate and fording-capable
- Integrated recovery, lashing and transport solutions
- Reliable electromagnetic compatibility in accordance with military requirements
- Based on proven heavy transport technology
- Major systems, including the chassis, steering, braking, electrical, and securing provisions, conform to relevant STANAG, UN, ISO, and DIN standards

TECHNICAL DATA	
Length	18,030 mm
Width	3,490 mm
Height	3,910 mm
Fifth wheel load [1]	25,000 kg
Axle load (per axle line)	8x 12,000 kg
Gross vehicle weight [1]	121,000 kg
Deadweight	29,000 kg
Payload [1]	92,000 kg

FEATURES
Gooseneck design according to STANAG 4009
Tie-Down facilities according to STANAG 4062
Pendulum axles according to DIN 74361/3
Tire pressure monitoring system (TPMS)
Electronic brake system
24 Volt illumination system
EMC according to STANAG 4370 AECTP 250
12-/15-pin sockets according to STANAG 4007/ISO12098
750 mm fording depth according to STANAG 2805

[1] *Hydraulic gooseneck in high position.*
Max. technical weights at 80 km/h on normal road conditions





All dimensions are approximate and in millimeters.