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TRANSPORT + HANDLING SYSTEMS B.V.





SPECIALS

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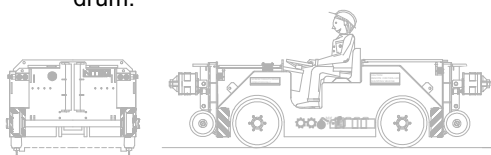
NITEQ B.V.

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- Left
- 1) Compact bogie pusher. Rail mode is remote controlled. Hand operated road mode to step from one track to the other track.
 - 2) Compact electric shunter with polyurethane wheels and 3 different couplers. From this development we have a 'compact' range of several machines.
 - 3) Brake car system to slow cargo wagons down during shunting and unloading in an automatic progressing system. Pneumatic brake system with a diesel compressor.
 - 4) E-Series top of the range with a de-tracking system to move sideways to next track or parking station.
 - 5) E-Series, NITEQ 2000-E, with a de-tracking system, open cabin and multiple coupler system

Middle *Curved steel transport system* of five cargo wagons. Two wagons have four electric driven axles. All inverter and PLC controlled. Interlocked and operated by remote control from the steelplant control room. Power supply by a cable drum.



NITEQ
TRANSPORT + HANDLING SYSTEMS

FULL HYBRID SHUNTING VEHICLE



NITEQ H-Series

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NITEQ's Shunting Vehicle is a well known machine, in use all over the world. The shunter is a solid and reliable battery driven machine used for shunting traincars up to 1320 tons (on level track). Safety is a high priority; therefore the machine is equipped with several safety features around the vehicle. The NITEQ can be operated manually or with a remote control unit. Available options are; a roof, working lights, de-tracking, pneumatic supply for couplers, buffers and different types of height adjustable coupler adapters on both front and rear ends. The NITEQ can be equipped with an interlock system for safe operation with other facilities such as an Under floor Wheel Lathe.

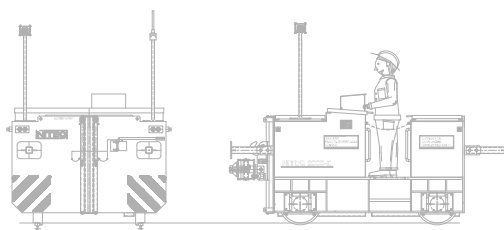
TECHNICAL SPECIFICATIONS:

- Track gauge: 1435-1524-1676mm
- Shunting capacity 400-1320 tons
- Nominal tractive effort 4000-8000 kg
- Weight 20-44 tons
- Speed 4 - 15 km/h

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NITEQ H-Series



Features

- Professional, industrial high quality electric hybrid with battery.
- Efficient diesel, petrol, LPG/CNG generator set
- Rail borne vehicle designed for running on rails.
- Long lifecycle and low maintenance costs.
- Made according the highest safety standards.
- Low noise and pollution level.
- Comfortable and safe operator stand with all round visibility.
- Permanent 4x4 drive system with "solid" flanged rail wheels.
- Elastic chevron suspension to eliminate shocks misalignments of the rail track.
- Simple hand and remote control.
- Normal braking; electric regenerating brake system via electric control system.
- Pneumatic braking via separate joystick
- Emergency braking and parking failsafe brakes.
- Different speed levels: solo up to 15 km/h, shunting and creep speed.

NITEQ B.V.



Safeties

- 1 optical signal - orange flashlight (during driving)
- 1 back-up beeper alarm (during driving)
- 1 horn—sounds 3 times (before starting -option)
- 4 emergency off push buttons, 1 on each corner of the machine.
- 1 emergency off push button on each separate control panel.
- battery "low" contact with override possibility.
- 1 battery main power switch.
- All push buttons in vigilance execution.
- Automatic deceleration curve with regenerated braking.
- Automatic control "on" / "off" the brakes.
- 2 similar key-locks; 1 for manual and 1 for remote control panel.
- 1 safety step of galvanised steel in the centre of the machine for easy access to the operator stand.
- Grips in signal colour .
- Warning signs and text acc. to CE rules onto the machine.
- Limit switches for 2 shunting directions to hold the machine within the permitted confines of the shunting area. Optional
- 2x white lights indicating movement, or
- 2x2 red/white lights indicating driving direction.
- Work lights front and rear

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ELECTRIC SHUNTING VEHICLE



NITEQ E-Series

NITEQ B.V.



NITEQ's Shunting Vehicle is a well known machine, in use all over the world. The shunter is a solid and reliable battery driven machine used for shunting traincars up to 1320 tons (on level track). Safety is a high priority; therefore the machine is equipped with several safety features around the vehicle. The NITEQ can be operated manually or with a remote control unit. Available options are; a roof, working lights, de-tracking, pneumatic supply for couplers, buffers and different types of height adjustable coupler adapters on both front and rear ends. The NITEQ can be equipped with an interlock system for safe operation with other facilities such as an Under floor Wheel Lathe.

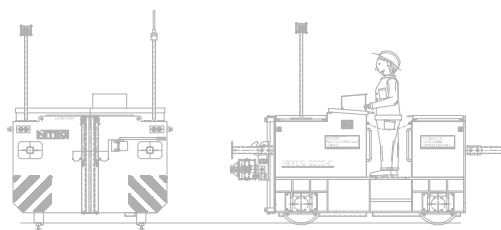
TECHNICAL SPECIFICATIONS:

- Track gauge: 1067-1435-1524-1676mm
- Shunting capacity 60-1320 tons
- Nominal tractive effort 600-8000 kg
- Weight 3-44 tons
- Speed 25 - 32 m/min

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NITEQ E-Series

Features

- Professional, industrial high quality electric machine with battery.
- Rail borne vehicle designed for running on rails.
- Long lifecycle and low maintenance costs.
- Made according the highest safety standards.
- Low noise and pollution level.
- Comfortable and safe operator stand with all round visibility.
- Permanent 4x4 drive system with "solid" flanged rail wheels.
- Elastic suspension to eliminate shocks misalignments of the rail track.
- Simple hand and remote control.
- Normal braking; electric regenerating brake system via electric control system.
- Emergency braking and parking via failsafe brakes.
- Braking distance with train: app. 2 m from max. speed.
- High stopping accuracy +/- 20mm
- Different speed levels: solo, shunting and creep speed.
- 4 hoisting points on 4 corners for easy lifting the machine.



NITEQ B.V.

Safeties

- 1 optical signal - orange flashlight (during driving)
- 1 back-up beeper alarm (during driving)
- 1 horn—sounds 3 times (before starting)
- 4 emergency off push buttons, 1 on each corner of the machine.
- 1 emergency off push button on each separate control panel.
- battery "low" contact with override possibility.
- 1 battery main power switch.
- All push buttons in vigilance execution.
- Automatic deceleration curve with regenerated braking.
- Automatic switching "on" / "off" the brakes.
- 1 horn: via push button as an audible additional warning signal.
- Safety CEF key lock with unique key.
- 2 similar key-locks; 1 for manual and 1 for remote control panel.
- 1 safety step of galvanised steel in the centre of the machine for easy access to the operator stand.
- Grips in signal colour on the cab.
- Warning signals and text acc. To CE rules onto the machine.
- Limit switches for 2 shunting directions to hold the machine within the permitted confines of the shunting area.
- 2x2 white lights indicating forward direction.
- 2x2 red lights indicating reverse direction.
- Automatic switching lights forward and reverse.
- Interlock with other facilities possible.



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RAIL / ROAD SHUNTING VEHICLE



RRM Series

NITEQ B.V.



NITEQ's Rail Road Mover; Shunting Vehicle is a well known machine, in use all over the world. The RRM is a compact, solid and reliable battery driven machine used for shunting traincars up to 500 tons (on level track). The excellent driving position makes tracking and de-tracking a very safe and easy procedure. Safety is a high priority, therefore the NITEQ RRM is equipped with several safety features around the vehicle. The RRM can be operated manually or with a portable remote control unit. Available options are; a roof, work lights, 4 wheel steering, ramping, dual drive and different types of height adjustable couplers on both front and rear ends. The RRM can be equipped with an interlock system for safe operation in combination with other facilities such as an Under floor Wheel Lathe of Lifting Jacks.

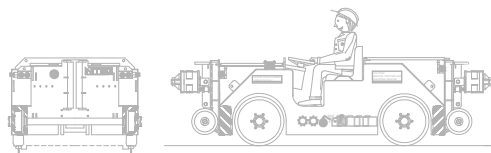
TECHNICAL SPECIFICATIONS:

- Track gauge: 1000-1435-1676mm
- Shunting capacity 60-500 tons
- Nominal tractive effort 500-3000 kg
- Weight 4-10 tons
- Turning radius 3,2 to 5,5m
- Speed rail 3 km/h road 6 km/h

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RRM Series

Features:

- Professional, industrial high quality electric rail/road shunter with battery.
- Easy road driving with power steering and optional 2nd steering axle for a smaller turning radius.
- High safety due to "low" friction figure $>0,2$.
- Permanent 4x4 drive system on the road and on the track with big rail wheels.
- Long lifecycle and low maintenance costs.
- Made according the highest safety standards.
- Low noise and pollution level.
- Comfortable and safe operator seat with all round visibility.
- Elastic suspension to eliminate shocks and misalignments of the rail track.
- Hydraulic locked rail wheels for crossing a wheel-lathe with special small railhead rails of app. 25mm with x app. 1000mm long.
- Simple hand and remote control system of operation.
- Normal braking; electric regenerating brake system via electric control system.
- Emergency braking and parking via failsafe brakes.
- Short Braking distance with train: app. 3 m from max. speed.
- High stopping accuracy ± 20 mm
- Disengage system for towing.
- Different speed levels available
- 4 hoisting points on 4 corners for easy lifting the shunter.
- Designed for different coupler adapters on the front- and rear ends of the machine. The couplers are vertical adjustable.
- Height above Top Of Rail 1250 mm (without cabin).
- AC drive technology.



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Safety:

- 1 optical signal - orange flashlight (during driving)
- 1 back-up beeper alarm (during driving)
- 4 emergency off push buttons, 1 on each corner of the machine.
- 1 emergency off push button on each separate control panel.
- Battery "low" contact with override possibility.
- 1 battery main power switch.
- All push buttons in vigilance execution.
- Automatic deceleration curve with regenerative braking.
- Automatic switching "on" / "off" the parking-emergency brakes.
- 1 horn: via push button as an audible additional warning signal.
- 2 similar key-locks; 1 for manual and 1 for remote control panel.
- 1 safe driving position with rubber anti skid floor.
- Grips in signal colour on the cab.
- Warning signals and text acc. to CE rules onto the shunter.
- 2x2 white lights indicating forward direction.
- 2x2 red lights indicating reverse direction.
- Automatic switching lights forward and reverse.
- Deadman safety switch for operator present.
- Hydraulically blocked and monitored rail wheels.
- Low centre of gravity for maximum stability.
- Blocked and monitored steering axle during rail application.
- Automatic charging protection; steering blocked during charging process.
- Temperature protected drive controllers and motors.
- Interlock possibilities with other facilities.



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STATIONAIRY SHUNTING SYSTEM



NITEQ Winch

NITEQ B.V.

NITEQ's Winch System is a well known machine, in use all over the world. The system is a solid and reliable in two ways operating push-pull steelrope winch. It's used for shunting traincars up to 1400 tons (on level track).

Safety is a high priority; therefore the machine is equipped with several safety features. The NITEQ can be operated manually or with a remote control unit. Available options are; pusher truck, I-truck or modified cargo wagon etc. The NITEQ can be equipped with an interlock system for safe operation with other facilities such as loading and unloading stations.

TECHNICAL SPECIFICATIONS:

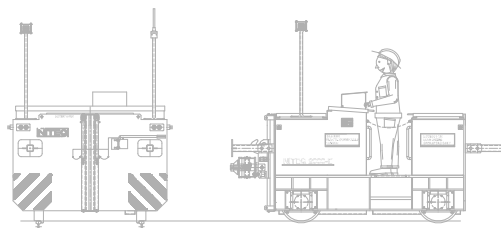
- Track gauge: 1435-1524-1676 mm
- Shunting capacity 400-1400 tons
- Nominal tractive effort 4000-8000 kg
- Speed 0,1 - 0,3 m/sec



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NITEQ Winch



Features

- Professional, industrial high quality system.
- Suitable for different gauges.
- Long lifecycle and low maintenance costs.
- Made according the highest safety standards.
- Low noise and pollution level.
- Comfortable and safe operation.
- Under all circumstances traction.
- Elastic suspension to eliminate shocks misalignments of the rail track.
- Simple hand and remote control.
- Normal braking; electric regenerating brake system via inverter.
- Emergency braking and parking via failsafe brakes.
- Braking distance with train: app. 2 m from max. speed.
- High stopping accuracy +/- 20mm
- Different speed levels available.

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Safeties

- Braking in two directions.
- 1 optical signal - orange flashlight (during movement)
- 1 horn before starting
- 1 emergency off push button on each separate control panel.
- All push buttons in vigilance execution.
- Automatic deceleration curve with regenerated braking.
- Automatic switching "on" / "off" the brakes.
- 1 horn: via push button as an audible additional warning signal.
- Safety CEF key lock with unique key.
- 2 similar key-locks; 1 for manual and 1 for remote control panel.
- Warning signals and text acc. To CE rules onto the machine.
- Limit switches for 2 shunting directions to hold the machine within the permitted confines of the shunting area.
- Interlock with other facilities possible.

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