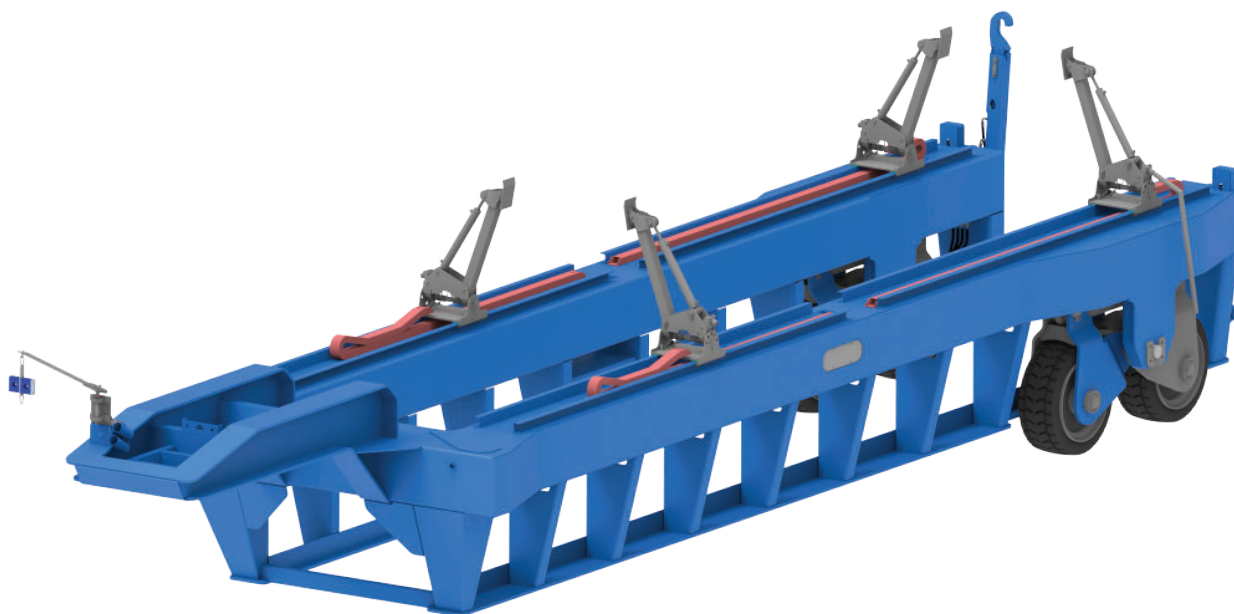


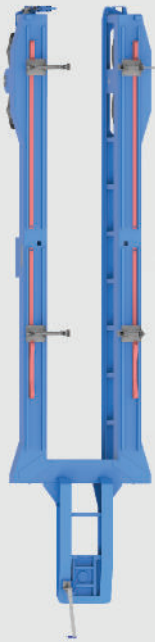


Flat Loader

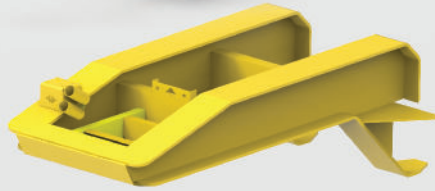


NT Group value-added solutions
for transporting precast elements
in Concrete Industry

TECHNICAL SPECIFICATIONS



U – shape welded frame construction



King pin DIN 74080 - 2"

Surface treatment

SFS-EN ISO 12944
PUR100/1-Sa2 ½

4 pcs

Super Elastic

355/65 R15



Equipment:



LED rear lights
Working lights at the rear



Reversing camera



Manual greasing



Hydraulic tailgate



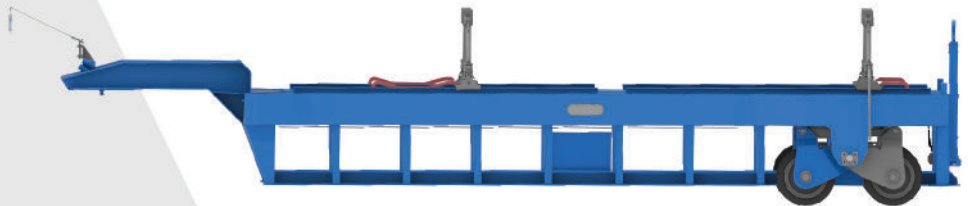
Lifting/lowering with tug master joystick



Movable hydraulic supports for wall elements



Open / close with push button

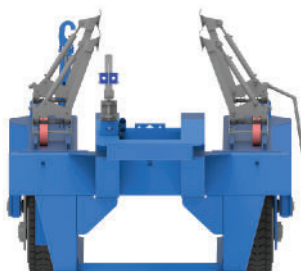


Principal dimensions	
Total length to kingpin	12200 mm
Length of loading area	9500 mm
Max width of the loading area	1375 mm (smallest distance between L supports)
Min height of L supports	50 mm
Lifting movement, minimum	250 mm

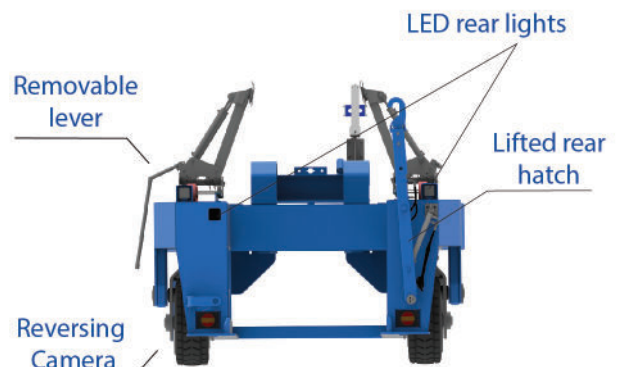
Capacity - Max load (incl. inloader pallet) - 34000 kg
Tractor 5th wheel requirement - 15000 kg

Connection to tug master - Electric: 32 pin Harting
- Hydraulic: 1" tema

Control system
PLC control
24VDC



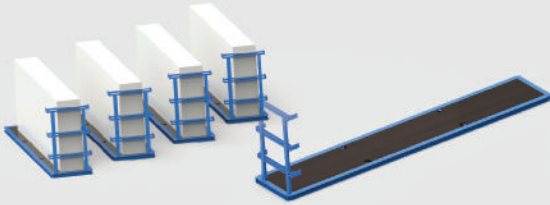
FRONT VIEW



REAR VIEW

APPLICATIONS

Inloader pallets, loaded with flat elements, are prepared for internal transport.



The Flat loader lifts and transports the Inloader pallet to the next stop.



At the destination, the Flat loader unloads the Inloader pallets for external transport.



Unit Description

Suspension

Design is based on our new scissor suspension system. A double-wishbone suspension is used on both sides. One single pivot point with hydraulic cylinder for lifting and lowering the load. Solution allows for effective work, and high responsiveness to terrain unevenness. Thanks to the use of one axle, the suspension also adjusts to the angle of the terrain.



Stabilizing arms

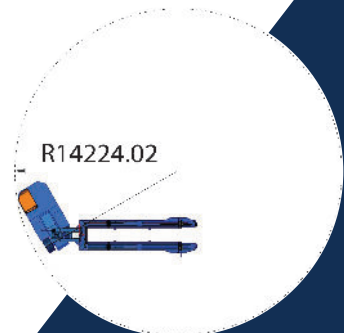
Four hydraulic arms, for stabilizing the load, can be adjusted manually in any configuration. After manually setting the arms in the required position, the hydraulic system clamps the arms, stabilizing the load. Thanks to the use of special slides that move along the guides, after tightening the arms they remain locked, protecting against uncontrolled front-back movement.

Rear load security system

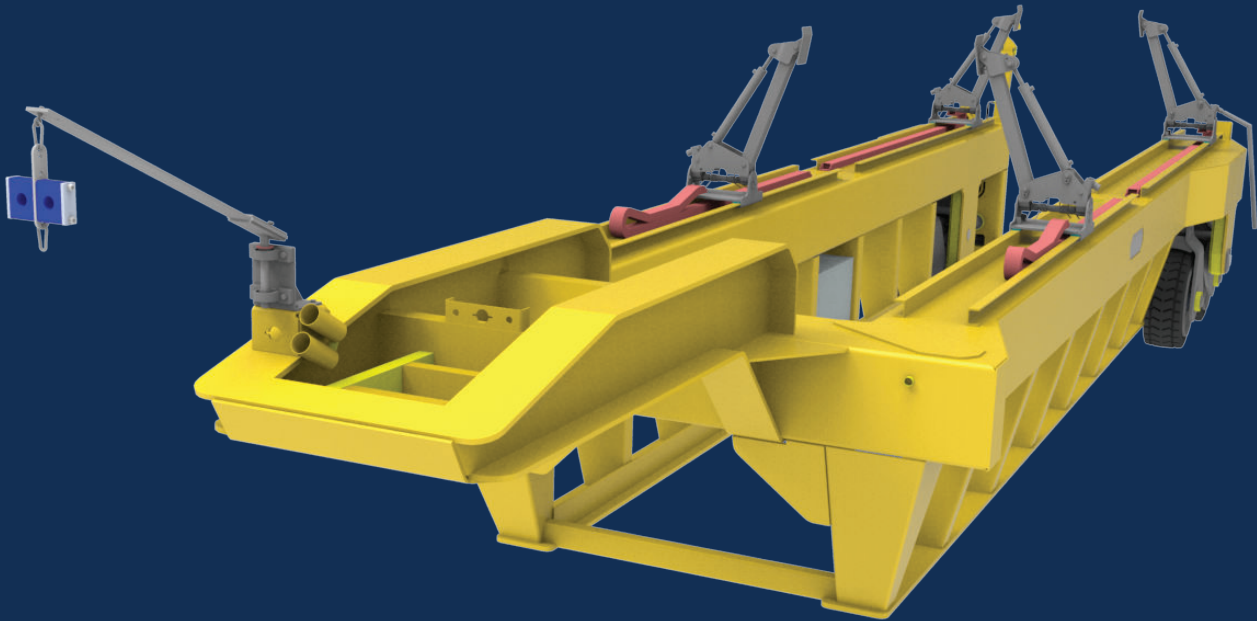
Rear safety beam is closing between the sides using a hydraulic cylinder. Beam closing system is equipped with a sequential hook lock. After closing the beam, the hook is additionally pressed automatically. Thanks to this, the load and the structure are secured in the best possible way. The opening takes place in reverse - the hook is unlocked, and then the beam is lifted. The system has additional protection against use of a flat loader without a closed rear beam. The system is fully automatic, and the entire sequence, including pressing the hook, is controlled by one button. Rear gate security system and gooseneck alarm lights available as option.

Stable frame construction

The structure uses 20 lifting brackets arranged perpendicularly. They ensure the highest stiffness and protect the structure against twisting or bending. The frame in contact with the ground is secured with a slide made of abrasion-resistant SSAB Hardox 400 steel. Flat loader is self-supporting and can be placed away without any additional supports or racks. The slide is located on the entire surface of the frame from the bottom. Thanks to this solution, the wheels and all parts of the running gear are protected not only from the inside against damage by the load, but also against collision with the element behind the Flat Loader. Technological ports are designed along the entire length of the frame.



Maneuverability



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