

FEATURES AND TECHNICAL INFORMATION

Konecranes Noell Sprinter Carriers

**WITH ALL POWER
OPTIONS!**

- Diesel-electric
- Hybrid
- Battery



Konecranes Noell Sprinter Carrier at a glance

Well-built all-rounder

Konecranes Noell Sprinter Carriers are designed according to the conditions prevailing in the terminal. Easy to maneuver with high travel speeds, they are lightweight but adequately rigid with a durable steel structure and low center of gravity. They provide high container handling productivity and enhanced safety and convenience to the driver.

CABIN

- Large windows for good all-round visibility
- Ergonomically designed, adjustable driver seat and controls
- Optional electrically rotating driver's seat
- Intuitive GUIs
- Optional second seat for training instructor

KONECRANES NOELL SPREADERS

- Single-lift, twin-lift and separating twin-lift
- Precise & fast thanks to smart sensor system and laser technology
- Soft landing function, automatic set-down function and low-maintenance guides
- Automatic movement to preset positions (20', 30', 40')
- Telescoping cylinders hydraulically locked in position: patented solution, no locking pins

SPREADER TWISTLOCKS

- Vertically suspended, floating ISO twistlocks
- Patented, modular twistlock mounting & locking
- Identical design across all twistlock units: reduced spare part requirements
- Landing pins electronically monitored for safe container handling
- Long lifetime: strong resistance to material fatigue

POWER OPTIONS

Diesel-electric

- High-performance, low consumption diesel genset
- Available in emission levels Stage IIIA & Stage V

Hybrid

- Built on the design of the diesel-electric sprinter carrier
- Downsized powertrain/genset
- State-of-the-art inverter panel
- Battery unit instead of brake resistors, complete recuperation

Battery

- High-capacity battery modules for maximum continuous operating time
- Easy automatic charging from sprinter carrier parking position, through motorized charging connector

MACHINERY PLATFORM, EASY ACCESS

- Easy access via walkway to engine, generator, hydraulics, electrical panels, hoisting motor/winches
- Powertrain can be fitted with a sound-dampening sliding cover: still easy access

HOISTING SYSTEM

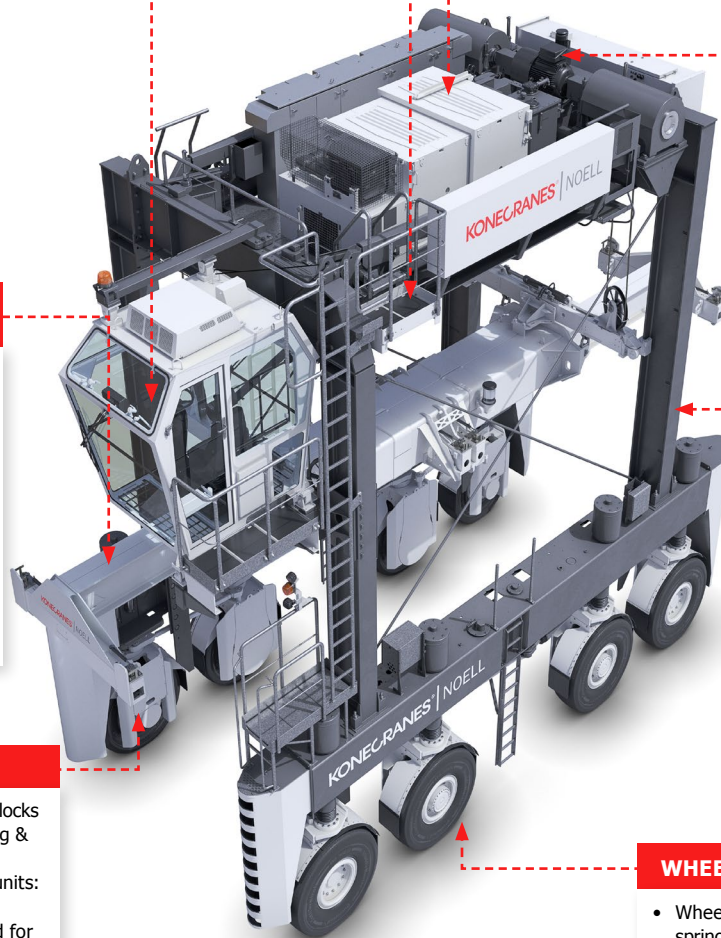
- Maximum lifting capacity 60t
- Rope drums driven and synchronized by centrally positioned electric motor
- Maintenance-free, three-phase AC motor
- Simple, clearly arranged and protected rope guides
- Small number of rope pulleys for low rope wear
- Load detection at rope ends

STEEL STRUCTURE

- Sleek, lightweight with diagonal braces giving optimized visibility
- Optimum balance of flexibility and long life
- Sill beam tough yet lightweight, made from a single piece of sheet metal to reduce welding
- Yoke beam guided by low-maintenance sliding pads in the portal
- Power and hydraulic supply to spreader provided via scissor arm or cable chain

WHEEL SUSPENSION AND DRIVES

- Wheel suspension with maintenance-free spring system
- Four wheels are driven: direct drive via wheel hub motors
- Maintenance-free three-phase AC motors and wet disk brakes
- Wheels individually steered by central steering cylinders and rods
- Electric braking occurs first; then joined by hydraulic braking if greater braking force is required



Spotlight:

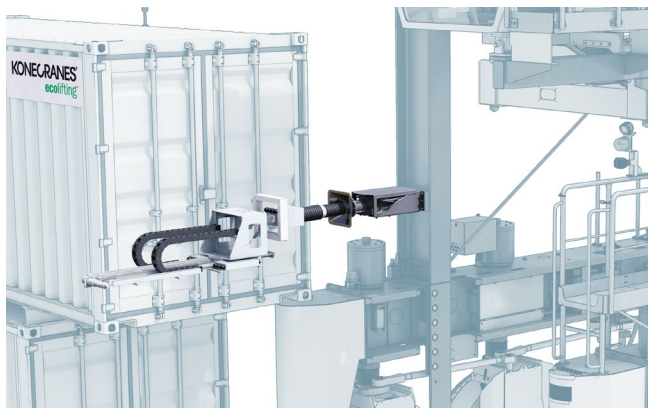
Battery power

Konecranes Noell Sprinter Carriers are available with a battery power option. If you're interested in fully electric container handling, this option deserves your serious consideration. It greatly reduces noise emissions and gives zero local CO₂ emissions.

Brownfield container terminals can adopt battery operation without major yard adjustments. The charging station is unobtrusive and connected to the terminal mains. It can be placed almost anywhere but close to a maintenance or parking area is recommended. Charging strategy will depend on your work cycles and work shift arrangements.

CHARGING STATION

Docking at the charging station is a simple matter of driving the sprinter carrier to the station, where the charging connection is made automatically.



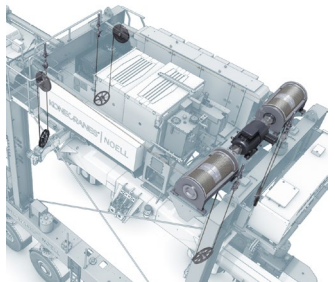
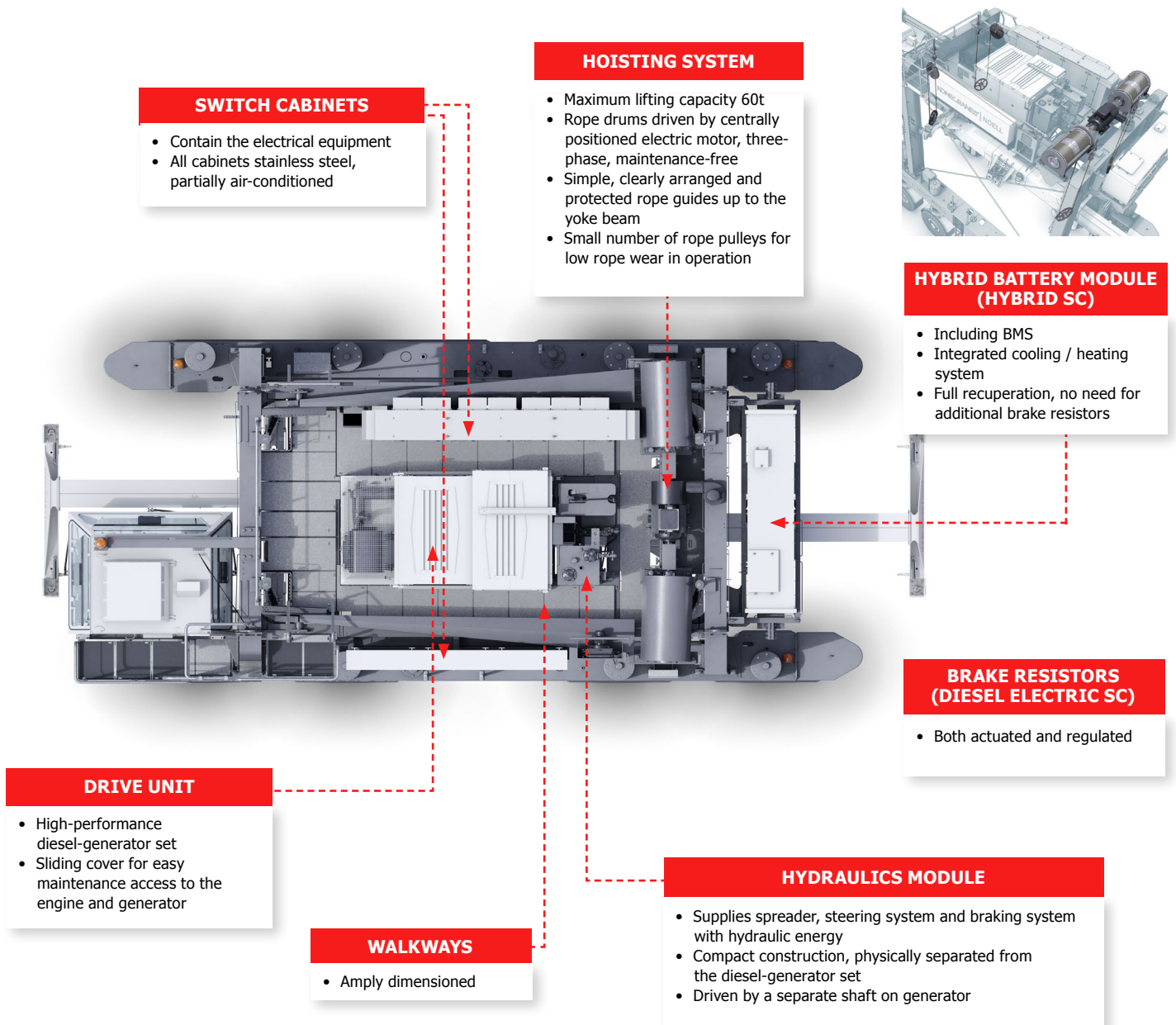
Machinery platform

Easy to access

The machinery platform of the Konecranes Noell Sprinter Carrier is well-organized. Its components are easily accessible to make service and maintenance quick and convenient. Components are durable, ensuring long service intervals and high availability.

The diesel generator set is positioned at the center of the machinery platform. It can be fitted with a compartment to reduce noise emissions.

The hoisting system is positioned at the edge of the machinery platform to save space. It consists of a centrally positioned electric motor and two synchronized rope drums.



Konecranes Noell Sprinter Carriers

Hoisting unit

		2-high
Nominal speeds	Lift/lower with empty /<40 t load	24.0 m/min
	Lift/lower with 40 t load	20.0 m/min
	Lift/lower with 50 t twin load*	16.0 m/min
<p>Lifting and driving can be done simultaneously to increase the number of cycles. The electronic control prevents overloading of the diesel engine and ensures the distribution of load between the hoist unit and the chassis.</p>		
	Side shift/swing angle	+/-300 mm +/-6°

* Data based on operation with twin spreader.

Chassis

		2-high
Nominal speeds	With load	Approx. 30 km/h*
	Without load	Approx. 30 km/h*
Acceleration times 0–50 m	Load and lift	Approx. 12 s*
	Without load	Approx. 15 s*
	With load	Approx. 25 s*
Climbing ability	With / without load	Approx. 6 %
Turning radius	Inside	Approx. 3.6 m
	Outside (40' container)	Approx. 9.3 m
Fuel tank	Total capacity of tank	750/1500 liters

* With engine at normal operating temperature, head wind not exceeding 3 bft, and container in traveling position.

Remark:

Performance data relate to a nominal weight of 30.5 t which corresponds to the permissible gross weight of an ISO 40' container.

Konecranes Noell Sprinter Carriers

Dimensions and weight

	2-high
Lifting height under twistlocks [H2]	6.3 m
Lowest position BE (below edge) spreader	0.3 m
Overall height (unloaded) [H1]	10.7 m
Overall length including ram buffer [L3]	10.3 m
Overall width (with front cab) [W2]	4.87 m
Clearance sill beam [W1]	3.47 m
Wheel base (inside wheels) [L1]	3.7 m
Wheel base (outside wheels) [L2]	7.7 m
Inside turning radius [R1]	3.6 m
Outside turning radius [R2]	9.3 m
Total weight, ready to operate*	64 t
Konecranes Noell Spreader	
Spreader, single-lift [S1]	20 / 30 / 40 ft
Spreader, twin-lift [S1]	2 x 20 ft
Spreader, side shift [S2]	+/- 300 mm
Spreader, swivel angle [S3]	+/- 6 °

* Based on a diesel-electric or hybrid Sprinter Carrier with standard equipment, including single spreader.

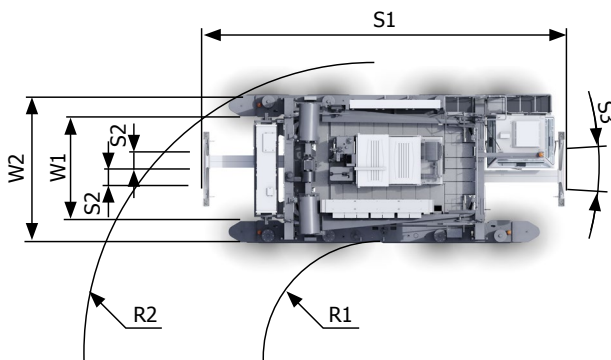
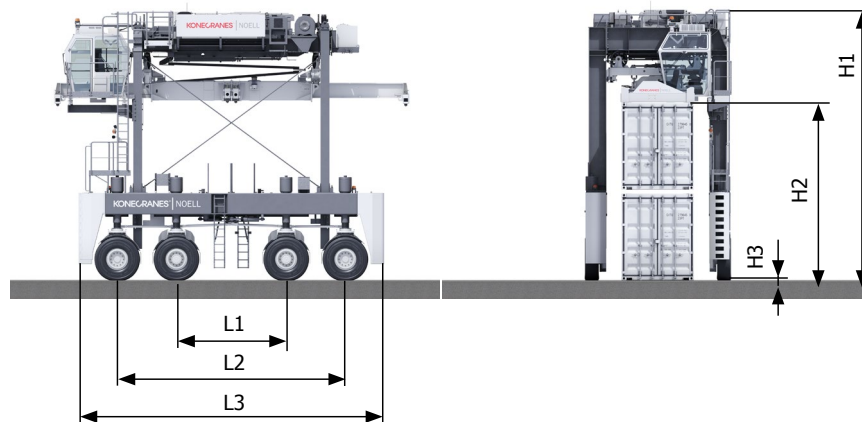


Illustration shows a 2-high Konecranes Noell NSC 624 E Sprinter Carrier

Important note: These dimensions are examples only, specific dimensions are as per project / customer requirements



Konecranes is a global leader in material handling solutions, serving a broad range of customers across multiple industries. We consistently set the industry benchmark, from everyday improvements to the breakthroughs at moments that matter most, because we know we can always find a safer, more productive and sustainable way. That's why, with around 16,600 professionals in over 50 countries, Konecranes is trusted every day to lift, handle and move what the world needs. In 2022, Group sales totalled EUR 3.4 billion. Konecranes shares are listed on Nasdaq Helsinki (symbol: KCR).

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