

# Straddle crane energy storage system assembly

The storage and retrieval system is automated and expandable so your mill can do more work with the same number of employees. Overload and overspeed protection, crane motion limits, emergency stops; Programmable storage criteria; Integrated handling system ; Storage management software for tracking the location of each roll

**Cranes:** Mobile cranes or gantry cranes are utilized for lifting containers on and off ships or railcars. These heavy-duty machines are essential for container terminal operations. **Straddle Carriers:** Straddle carriers are large machines that can pick up containers and transport them short distances. They are commonly used in ports and rail ...

Straddle carrier typically use rubber tires, which can be powered by diesel engines, electric motors, or hybrid systems to provide flexibility in various working environments. These machines are capable of lifting containers weighing up to 60 tons and can stack them up to four high, optimizing space in storage areas.

K-Series Folding Straddle Cranes have been the benchmark for safe lifting solutions up to 6,000 lbs. in the most demanding applications. Cranes Jibs Hoists Trolleys Video Designed & certified to meet stringent ASME PASE and ANSI Z535 safety standards with 150% safety factor for lifting and 125% safety factor for stability.

report is to analyse whether implementing energy storage systems in the cranes of the container terminal Port of G&#228;vle can contribute to reduce electricity costs ... straddle carriers, rubber-tyred gantry (RTG) or rail-mounted gantry (RMG) cranes are commonly used [4], [11]. STS and RTG cranes will be explained in more detail in the following ...

Straddle Carriers are basically lifting cranes mounted on tyres often used to replace gantry cranes for lifting and handling heavy loads in casting yards, factories, storage areas, ports. Straddles pick and carry load while straddling their load and connecting to the top lifting points via a spreader. These machines have the ability to stack segments and beams onto each other and shall be ...

The control system of diesel-electric Konecranes Noell Straddle Carriers is designed in such a way that automation can be added without extensive modifications to the existing machines. Operators of existing terminals can convert manual straddle carriers to automated, unmanned A-STRAD operation.

A straddle carrier or also known as a straddle truck is a lifting apparatus. Straddle carriers helps in lifting the containers for stacking them on the terminals ensures easy and smooth movement of containers from one place to another. The working of a straddle carrier is different from that of a conventional truck which carries

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the load on top of ...

A wide range of options is available. The ECOCap system is available for the diesel-electric drive type, which stores and uses regenerated electrical drive power. Single-lift and twin-lift spreaders are available. We have the right straddle carrier for your terminal, in compliance with your operational requirements and local environmental ...

They work together flawlessly, in true balance with the lifting work they do. Our straddle hoisting system is well-known and field-proven in our RTG and RMG cranes. Our straddle hoisting system offers a reliable lifting capacity of 50 metric tons Safe Working Load under spreader. The yoke beam is very rigid.

**Versatility and Flexibility:** A crane steel structure offers versatility and flexibility in handling various types of materials and products. The overhead crane can be equipped with different types of lifting attachments, such as hooks, grabs, magnets, or specialized fixtures, to accommodate different loads and applications. This adaptability makes the system suitable for a wide range of ...

Straddle carriers" performance has increased rapidly in recent years, with electric drive and automated modes becoming increasingly popular. This requires high energy output. However, to keep idle time as short as possible, the charging process must be extremely efficient. VAHLE relies on charging contacts for the power supply of straddle carriers.

Manual Konecranes Noell straddle carriers are known for their excellent diesel-electric drive system, which gives outstanding maneuvering precision. A-STRAD takes full advantage of this. The picture is completed by our ability to provide an A-STRAD system complete with interchange control and fence control systems and software.

Regenerative braking is a system that sends some power back to a crane" s power grid during every downward or decelerated motion, instead of being dissipated by resistors. Konecranes" network braking removes the need for external braking resistors. This system decreases crane downtime, and it is more applicable for several supply voltages.

o Inductive or conductive power supply systems to charge onboard energy storage systems o Electrification of straddle carriers on the basis of Drive-In L-systems solutions (see Pg. 14 for details) o Reinforced energy guiding chains for safe and reliable energy and data transmission

Advanced navigation system: Medium and large mechanical equipment such as straddle carrier cranes can use GPS and lidar for precise positioning and movement.; Safety anti-collision system: Designed specifically for straddle carriers, it is equipped with anti-collision sensors, which can automatically detect obstacles and issue early warnings to avoid collision risks effectively.

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The design, manufacturing, and inspection of the Kuangshan Crane straddle container lifter comply with the latest domestic and international standards, including FEM, DIN, IEC, AWS, and GB. ... Unique deviation correction and fine-tuning technology for large vehicles, braking shock absorption energy storage system, and anti-overturn design for ...

Due to the unique design and structural features, straddle carriers also called Rubber Tyred Gantry Cranes, mainly used to move and lift large equipment in narrow spaces and restricted conditions. For example, straddle cranes are widely used to lift prefabricated beams, concrete parts, prefabricated houses, tanks, wind power towers, cable barrels, containers, etc.

Straddle Crane has been the benchmark for safe lifting solutions up to 6,000 lbs. in the most demanding applications. Cranes Jibs Hoists Trolleys Video Designed & certified to meet stringent ASME PASE and ANSI Z535 safety standards with 150% safety factor for lifting and 125% safety factor for stability.

Straddle carriers are specialized equipment used in port terminals and intermodal yards for stacking and moving ISO standard containers. Straddle carriers utilize a combination of mechanical, hydraulic, and electronic systems working in ...

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