

# Liebherr Straddle Carrier



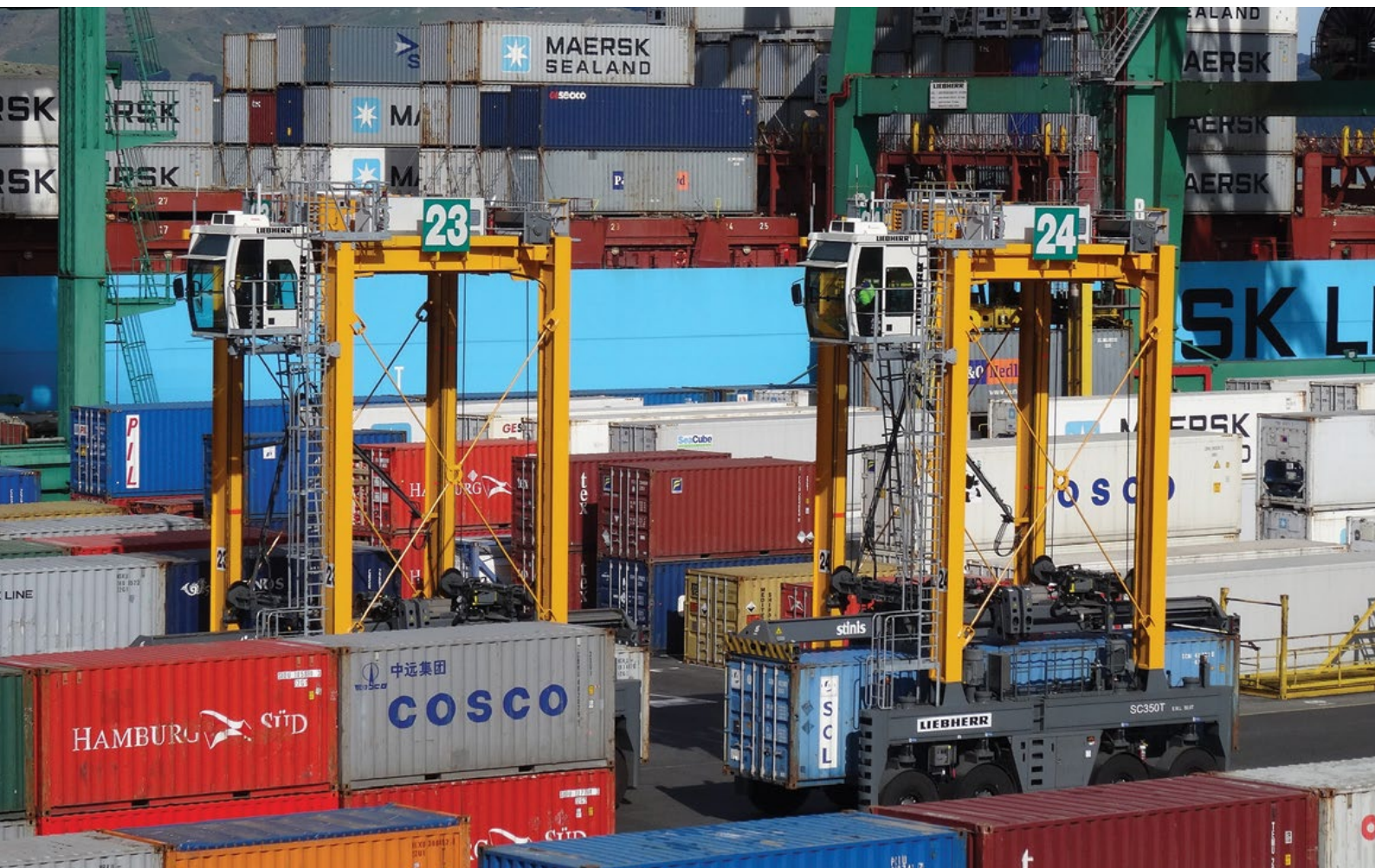
# LIEBHERR

# 1 Overview

- 8 wheels
- 3 containers high (1 over 2)
- 40.6t S.W.L under spreader
- Single lift, hydraulic spreader
- Container handling: 20ft, 30ft, 40ft and 45ft
- Liebherr electric AC inverter drives for travel, hoist and auxiliary functions
- Ergonomically designed cabin and driver's console
- Rope winch hoist with external disc brakes
- Industry leading diesel engine suppliers
- Power regeneration between hoist and travel drives
- Fine inching control for maximum manoeuvrability
- Independent hydraulic systems per side to maximise performance, reliability and minimise maintenance
- Reduced environmental impact with less oil than conventional straddle carriers
- Maintenance friendly design for ease of access to all service points
- Strong, rigid, robust structure
- 4 axle steering extending tyre life
- LED light package

## Options

- 50t under spreader - Twinlift
- 4 containers high (1 over 3)
- Automatic spreader landing and stack height position
- Fenders - all round mudguards with rubber mud flaps
- Rear view camera - option in cabin display for single or multiple cameras
- Emergency hydraulic pumps
- Ground control screen
- Integration with GPS system
- Remote access to CMS
- Maintenance access ladder
- Autogreasing
- Automatic fuel filling



## 2 The Driver Takes Centre Stage

The driver's safety and efficient command of the machine are of vital importance. The straddle carrier's overall stability and ease-of-control under even the most demanding conditions means the driver can focus on maximizing their performance.

### Cabin Features

- Optimum driver comfort due to quiet and spacious cabin with drive-by-wire technology
- Curved front and rear windows for better visibility and space
- Safety glass floor with walk-on grills
- Sliding door
- Wipers and washer
- AC, heating and window demisting
- Interactive information display
- Minimized noise and vibration level
- Stability system indication
- Radio/CD system

### Options

- Shore supply heaters
- Cabin and control specifications may be modified to suit specific needs
- 180° manual seat rotation
- Trainer's seat
- Power supply and brackets for port radio and TOS interface

### Suspension System

- Reduced maintenance with composite bushings
- Drives and steered axles with transducer directly mounted for accuracy, reliability and driver feedback
- Driver comfort with patented suspension system



# 3 Specifications

S.W.L.	40 t / 50 t twinlift
Stacking capacity	3 high ( 1 over 2), 4 high (1 over 3)
Hoisting speed	18 - 26 m/min
Travel speed	30 km/h
Genset	345 kW
Fuel Tank	2 X 750 litres
Self Weight	63 t
Length	10000 mm
Width	4940 mm
Height	12745 mm (3 high)
Turning radius	9600 mm
Wheel base	2000 mm / 3700 mm / 2000 mm
Height under spreader	9200 mm, 12000 mm
Steel structure material	High tensile steel S355

Liebherr AC inverter drive systems offer precision control for increased productivity

Ergonomic driver's cabin



4 axle steer by wire system | 2 or 4 wheel steering mode | Automatic wheel alignment | Reduced tyre wear

Traction control system ensures fine positioning and smooth travel acceleration

Hydraulics located at ground level give increased dynamic response | Reduced fire risk at engine enclosure | Ease of access

# 4 Economy & Productivity



# 5 High Performance Reliable Equipment

## Steer and Brake by Wire

- 4-Axles steer-by-wire for reduced tyre wear, estimated lifespan 8000hrs / tyre
- Steering input is via an electronic steering wheel simulator in the driver's cabin
- Wheels automatically align themselves
- Brake by wire, no hydraulics in drivers cabin
- Each sill beam has its own independent electrically driven hydraulic system for steering, braking and cooling - all hydraulics at ground level for ease of maintenance
- Large reduction in the amount of oil required compared to conventional straddle carriers
- Shock relief valves for impact protection

## Travel Brakes

- Twin operating brake system-electric regen and hydraulic wet disc brakes (WDB)
- Filtered cooling oil is continuously circulated around disc sets
- Less wear on WDB, Less heat generated
- Fail safe park brakes

## Liebherr Electrical Drive Systems

- Liebherr AC electrical system designed for crane application
- Smooth and precise movements with short response times
- Crane management system (CMS) with advanced features and data logging
- High quality components
- Maximum reliability
- Crane specific modular design

## Diesel Engine

- Industry leading engine suppliers
- Efficient fuel management system with regenerative shared power between drives
- Sound insulated enclosure



# 6

## Lifting and Load Performance

### Hoisting System

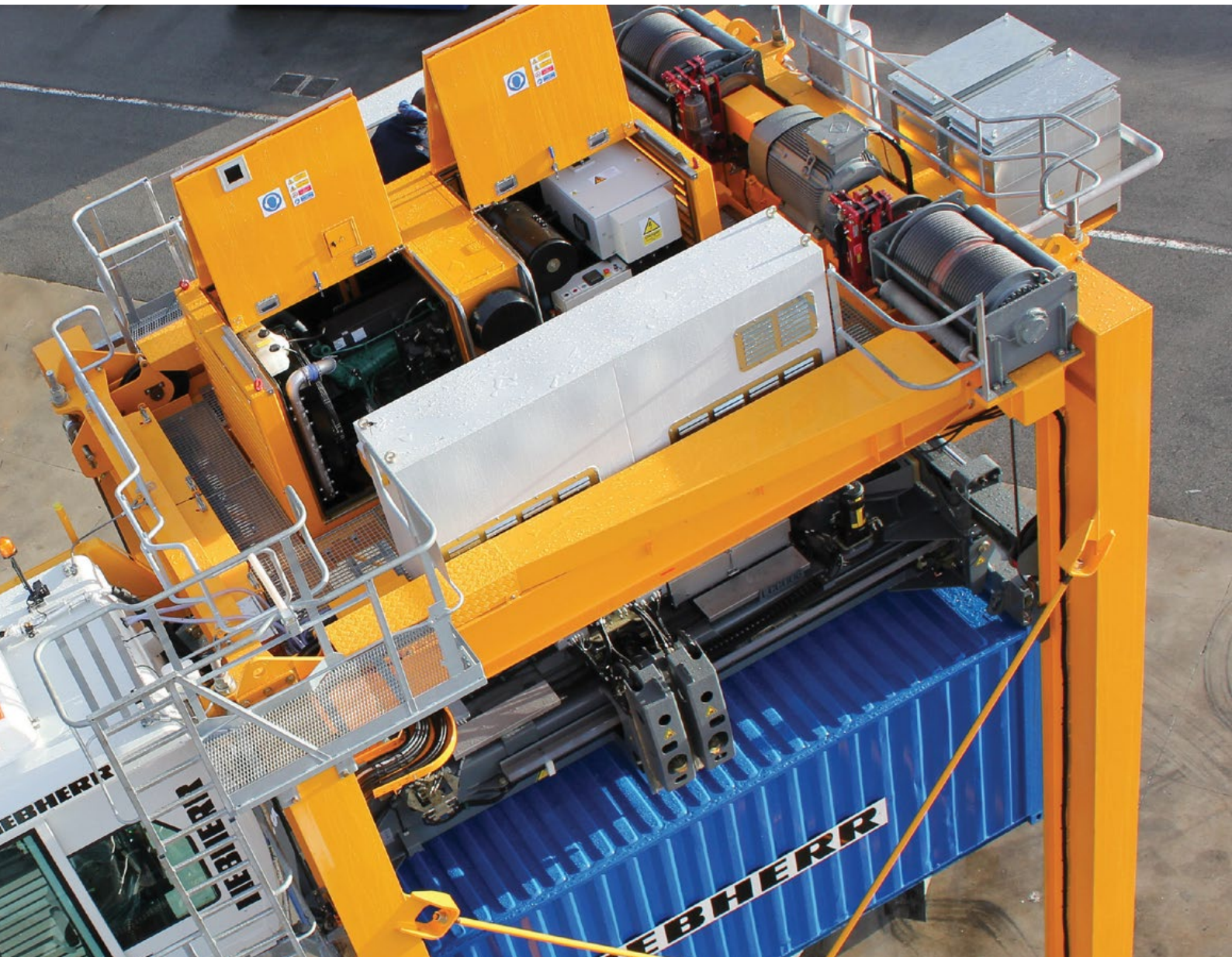
- Simplicity in design with minimum number of components - providing greater reliability and reduced maintenance
- Based on proven Liebherr design philosophies
- Robust planetary hoist winches - featuring external mechanical disk brakes
- Single thru-shaft electric motor connected to hoist winches with universal joints for best efficiency
- Simple reeving layout for long rope life
- No hydraulics used in hoist gear

### Spreader

- Robust hydraulic spreader designed for ease of maintenance
- Telescopic cylinders located externally with additional side locking pins
- Side shift and skew for optimum container positioning

### Spreader Options

- Auto spreader alignment and landing
- Twinlift
- Separate handling of 20 ft boxes in twin mode



# Liebherr Container Cranes Ltd



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