KALMAR STRADDLE CARRIERS
PROVEN PRODUCTIVITY
Mechanical CSC Straddle Carrier
- Reliable proven workhorse
- Patented Smoothlift™ hoist system with excellent visibility
- Designed for future automation

Kalmar Edrive® ESC Straddle Carrier
- Combines electrical AC drive system with CSC series reliability
- Single engine with lower maintenance and operating costs
- 20% reduced fuel consumption

Full AC HS Straddle Carrier
- Result of more than 25 year experience of electrical strads
- Full AC drive and hoist
- Best stability on the electrical SC market
Improved Performance
High Reliability, Low Operating Costs

Smoothlift™ Hoist System

- Simple patented design using a single hoist cylinder
- No gears or brakes needed
- Self balancing, no balancing shaft
- No lubrication points, no oil spills
- Longitudinally mounted rope sheaves
- Ropes and sheaves located out of vision
- Redesigned slimmer lifting beams

Constant Torque Powertrain CSC

- Constant torque ZF transmission
- Stepless gear changing for improved performance and driver comfort
- Short and simple powertrain
- One well protected electrical motor at each side frame
- Same short and proven powertrain as in CSC
- Only two AC inverters needed in the system
- Kalmar standard well protected side frame and final wheel drive

Powertrain ESC

- 4 wheel drive with 2 standard AC motors per sideframe
- Short powerline from AC motor straight to wheel hub reduction
- No overhanging hoses or components at wheel area

Powertrain HS

- Longitudinally mounted rope sheaves
- 4 wheel drive with 2 standard AC motors per sideframe
- Short powerline from AC motor straight to wheel hub reduction
- No overhanging hoses or components at wheel area
Global Market Leader
Easy to Operate
Economical to Own and Maintain

Strongest Frame on the Market
• Long frame lifetime
• Good protection against impact damage
• Excellent cornering stability
• Steering arms safely located on top of side frames

Full PLC Control
• Interactive display with easy recalibration or adjustment of main settings
• Smart power distribution for main functions
• Fault diagnostics and productivity monitoring
• Easy downloading to laptop computer
• Designed for future automation

High Ergonomics
• Improved visibility and ergonomics
• Accurate control of hoisting
• Improved air circulation

Easy Maintenance
• Extended service intervals
• Easy access to all service points
• Low pressure hydraulics
• Readily available proven components
References Around the World

Adelaide Container Terminal, Australia
Aqaba Ports Corporation, Jordan
Arhangelsk Port, Russia
B & I Line, Ireland
Barbados Port Authority, Barbados
BEV-Ferry Boats, Belgium
Boeing, USA
Ceres, Netherlands
Chittagong Port Authority, Bangladesh
CNM, France
Comanav, Morocco
Deka Transport, Netherlands
Deutsche Reichsbahn, Germany
Dubai Port Authority, UAE
Dublin Ferryboats Terminals, Ireland
E.N.P., Honduras
Empresa Portuaria Nacional, Guatemala
Eurofins, France
Eurogate Container Terminal Brü不得不, Germany
Eurogate Container Terminal Hamburg, Germany
Europe Container Terminals, Netherlands
Finnsteve, Finland
Freeport Harbour Company, Bahamas
GMP, France
Haiming Haidvoll Development, China
Hanjin, Taiwan
HCC, Germany
Hesse Nord Nautic, Belgium
HILDA, Germany
Hichens, Ukraine
Interferry Boats, Belgium
Intransar, France
Ipswich Port Authority, Great Britain
Iraq Ports, Iraq
Jacksonville Port Authority, USA
JiuZhou Port Administration, China
Johor Port Authority, Malaysia
KaoHsiung Harbor Bureau, Taiwan
Keeleung Harbour Bureau, Taiwan
Klang Container Terminal, Malaysia
Klang Port Management, Malaysia
Krasnoyarsk Port, Russia
Krasnodar Port, Ukraine
Latakia General Port Company, Syria
LLPA, Cyprus
Lyttelton Port Company, New Zealand
M.B.Z., Belgium
Maersk Line, Netherlands
Maersk Line, Taiwan
Magadan Port, Russia
Mahter Terminals, USA
Matson Terminals, USA
Medcenter Container Terminal, Italy
Mersey Docks and Harbour Company, Great Britain
Mina Sulman, Bahrain
Mina Zayed Container Terminal, UAE
Mongla Port Authority, Bangladesh
Norfolk Southern, USA
OCHZ, Belgium
ODEP, Morocco
OOLC, Taiwan
Patrick The Australian Stevedore, Australia
Piraeus Port Authority, Greece
Port Authority of Jamaica, Jamaica
Port Authority of New York and New Jersey, USA
Port of Copenhagen, Denmark
Port of Doha, Qatar
Port of Emden, Germany
Port of Gdańsk, Poland
Port of Gothenburg, Sweden
Port of Hodeidah, Yemen
Port of Leixões, Portugal
Port of Singapore Authority, Singapore
Port of Stockholm, Sweden
Port of Tacoma, USA
Port of Tauranga, New Zealand
Port of Torksey, Great Britain
Port of Vlissingen, Netherlands
Port of Wellington, New Zealand
Port of Auckland, New Zealand
Qingdao Port, China
RCL, Great Britain
Rotterdam Shortsea Terminals, Netherlands
SA Port Operations, South Africa
Sabah Port Authority, Malaysia
Saudi Railways, Saudi Arabia
Seaport Terminals, Belgium
Shipent, Finland
Shuabia Area Authority, Kuwait
Siyanco, Saudi Arabia
Southampton Container Terminals, Great Britain
St. Lucia Port, St. Lucia
STAM, Tunisia
Stevenco, Finland
T.C.B., Spain
TCT, Germany
Terminal de Normandie, France
Thessaloniki Port Authority, Greece
Thor Jorgensen, Denmark
Tilbury Container Services, Great Britain
Tropical Shipping, USA
Ust-Kut Port, Russia
Wan Hai Lines, Taiwan
VEB Seehafend Rostock, Germany
Virginia Port Authority, USA
Volos Port Authority, Greece
Vostochnyi Port, Russia
Xiamen Harbour Bureau, China
ZAO First Container Terminal, Russia
Shipside:
• Fastest way to load and unload vessels
• Maximum productivity to ship-to-shore cranes
• No waiting of ship-to-shore cranes for ground equipment or vice versa
• Lowest labor costs of any system
• No supporting equipment needed

Terminal and Gate Side:
• Easy yard management
• Minimum unproductive moves
• Full service to outside trucks
• No traffic congestion in terminal
• Moving of equipment within terminal is easy
• Changing of terminal layout is easy
Kalmar Industries

Lifetime Business Partner
Kalmar is a global provider of heavy-duty materials handling equipment and services to ports, terminals and industrial users. We supply handling solutions, which enable our customers to operate with a high level of efficiency and reliability. Every 4th container or trailer transfer at terminals around the world is handled by a Kalmar machine.

Global Operation
Kalmar has product supply centres in Finland, Sweden, Malaysia, the Netherlands and the USA, 12 sales companies and more than 150 dealers around the world. Today, more than 65,000 Kalmar machines are in operation in environments ranging from sub-zero arctic climates to tropical humidity and heat. Our global experience and understanding of local conditions enable us to serve customers in all corners of the world.

Kalmar Solutions for Full Response
As customers seek to focus more on their core business, Kalmar Solutions offers flexibility and a switch from ownership to equipment availability. Our customer support services include spare parts, field service, financial solutions, service packages, refurbishing, upgrades and Total Fleet Management. Kalmar Solutions not only facilitate better equipment performance and continuous innovations, we also make an impact on your operational revenue growth.

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