

 **FORKLIFTCENTER**

ACES FOR YOUR STACK

TEREX® STACKACE™ EMPTY CONTAINER HANDLERS



WORKS FOR YOU.™

PLAY YOUR FLEXIBLE CARDS

TEREX® STACKACE™ EMPTY CONTAINER HANDLERS – COST-EFFECTIVE, SERVICEABLE AND ERGONOMIC



Terex® empty container handlers are firmly established in the container terminals of the world. A broad range of models enables terminal operators to receive precisely the right machine for their requirements.

As these requirements are changing, we have again further developed our technology. Result: The four new Terex® Stackace™ E 5-8, E 6-8, E 6-9 and E 7-9 empty container handlers.

These “aces” are part of our new generation of machines. They have been developed on a shared platform, which forms the basis for all new Terex lift trucks. Many of the same technologies in addition to identical configurations and components are used. The benefits for terminal operators:

- ▶ **Flexible use of drivers and service employees.**
- ▶ **Possibility to improve spare parts provisioning.**

A machine that pleases everyone

With Terex Stackace empty container handlers, we have continued to develop proven technology: the machines build on the strengths of their predecessors. They also offer many innovations from which all users profit. They are:

- ▶ **Cost-effective:**
low consumption and wear
- ▶ **Serviceable:**
durable components with long maintenance intervals and good access to all maintenance points
- ▶ **Ergonomic:**
comfortable cab with intuitive control system and good view

Reliable, fast team player

The robustly constructed and easily maneuverable vehicles with a wheelbase of 4,000 mm or 4,500 mm work reliably and fast. They offer:

- ▶ **a maximum lifting speed of 0.56 m/s for fast stacking,**
- ▶ **stacking heights between 1-over-4 and 1-over-6 standard (8'6") empty containers and**
- ▶ **a maximum lifting capacity of 8 or 9 t on spreader.**

Terex Stackace empty container handlers form a powerful team combined with the single box spreaders developed by Terex Port Solutions (TPS).



Our aces stand for your added value

Models	Maximum lifting capacities on spreader [t]		Maximum container stacking heights standard (8'6") containers			Wheelbases [mm]	
	8	9	1-over-4	1-over-5	1-over-6	4,000	4,500
Stackace E 5-8	✓		✓			✓	
Stackace E 6-8	✓			✓		✓	
Stackace E 6-9		✓		✓			✓
Stackace E 7-9		✓			✓		✓

TPS – A LEADING MANUFACTURER OF LIFT TRUCKS

TPS is a leading manufacturer of lift trucks for ports, terminals and industry.

The portfolio includes:

- ▶ **REACH STACKERS,**
- ▶ **EMPTY CONTAINER HANDLERS,**
- ▶ **FULL CONTAINER HANDLERS,**
- ▶ **FORKLIFT TRUCKS.**

For empty container handlers, in addition to the new Stackace machines, the product range includes vehicles of the FDC series with 10 t load capacity, and for operation with double box spreaders. Terminal operators thus achieve stacking heights of up to 2-over-7.

We will successively convert all machines to the new generation. We will not take any machine off the market before an adequate successor is ready.



COUNT ON DURABLE PERFORMANCE



STATE-OF-THE-ART TECHNOLOGY AND DESIGN

Our Terex® Stackace™ empty container handlers offer high performance and reliability. The use of high-grade materials and components, both from our own production and from renowned manufacturers, results in precise and cost-effective operation and a long service life.

The driver works in comfort and safety in an ergonomic cab designed for productivity. Your service team will appreciate the low-maintenance, easily accessible assemblies.

PRODUCT DESIGNATION

STACKACE E 6-8

Product name

E Empty container handler = E

Max. stacking height
standard (8'6") containers

Max. lifting capacity in t

Mast

- ▶ Durable and reliable thanks to rugged design
- ▶ Excellent power transmission due to chain tensioning accumulator (optional)
- ▶ Good field of vision, as no diagonal cross bracing

Lighting system

- ▶ Excellent working area visibility
- ▶ Energy saving and durable LED technology (optional)

TPS EMPTY CONTAINER HANDLER COMPETENCE CENTER

With the Terex new-generation lift trucks, TPS is focusing on combining its entire expertise. The activities are merged at two Competence Centers.

Competence Center for Terex empty container handlers in Lentigione, Italy:

- ▶ Development & design
- ▶ Manufacture
- ▶ Spare parts store



The counterpart for reach stackers is located in Montceau-les-Mines, France. Both centers work closely together. In this way, spreaders manufactured in Lentigione are also used with reach stackers from Montceau-les-Mines.

Driver's cab

- ▶ Spacious, comfortable and ergonomically designed
- ▶ Good visibility thanks to high position
- ▶ Second door as additional safety exit

Chassis

- ▶ Excellent maneuverability thanks to compact design with good weight distribution
- ▶ Good stability through favorable load distribution with tilt cylinders hinged right at the back
- ▶ Reversing sensors and cameras (optional)

Wheels

- ▶ Rugged and low-wearing for long service life
- ▶ Convenient tire pressure monitoring (optional)

TRUST IN INNER VALUES

HIGH-GRADE COMPONENTS AND SMART SOLUTIONS

Inner values count. Those of Terex® Stackace™ empty container handlers are impressive. They include a high-performance drive train, a load-sensitive hydraulic system and first-class axle assemblies. All are coordinated by a control system specifically developed for lift truck applications including numerous integrated monitoring functions for the safety of operating personnel, machine and cargo.

Hydraulic system

- ▶ High lifting speeds for fast stacking due to large power reserves
- ▶ Low fuel consumption through load sensing with intelligent power management

Automatic transmission

- ▶ State-of-the-art units from ZF or Dana
- ▶ Low fuel consumption
- ▶ Electronically regulated gear change for precise and smooth operation
- ▶ Very easy to operate
 - 3 forward gears
 - 3 reverse gears



Drive axle

- ▶ Kessler D81, Terex heavy duty specification
- ▶ Long service life thanks to rugged design

Diesel engine

- ▶ Economical and environmentally compatible thanks to excellent fuel efficiency and low emissions
- ▶ State-of-the-art Tier 3 (Stage IIIA) and Tier 4 final (Stage IV) engines from Volvo or Cummins

Steering axle

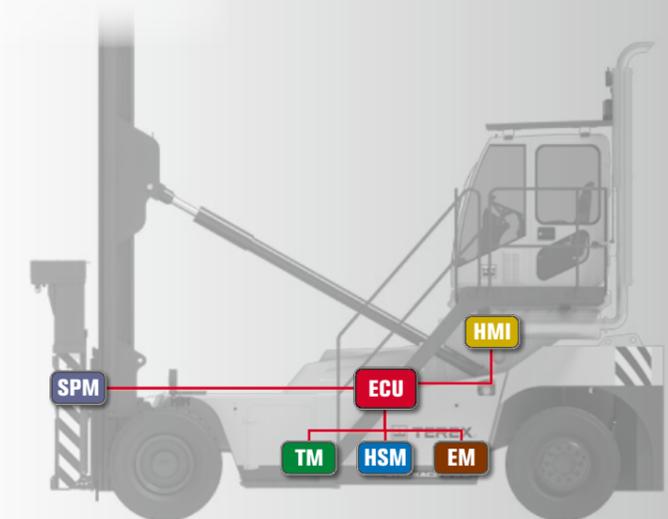
- ▶ Long service life thanks to heavy-duty design with high-tensile steel
- ▶ Excellent truck stability and driving comfort through hydraulic compensators (optional)



STATE-OF-THE-ART ELECTRONICS

For smooth interaction of all components:

- ▶ Fault-tolerant with fully integrated system monitoring through redundant components
- ▶ CAN bus system (optionally with integrated spreader functions)
- ▶ Automatic adjustment of operating status
- ▶ Easy access for diagnostic purposes



- | | |
|---|--|
| ECU Electronic Control Unit | EM Engine Management |
| HMI Human-Machine Interface (Joystick, keyboards, display) | TM Transmission Management |
| | HSM Hydraulic System Management |
| | SPM Spreader and Tools Management |

ENJOY YOUR MACHINE'S POTENTIAL

HARMONY AT THE MAN-MACHINE INTERFACE

Only when the man-machine interface works harmoniously, can the potential of a machine be fully utilized. Terex® Stackace™ empty container handlers offer you a cab in which you can work safely, comfortably and productively.

A cab with a view

In this cockpit, you always have an overview: above all, due to its high position the cab provides excellent visibility. And thanks to its construction without diagonal cross bracings, not even the mast stands in the way of this overview.

Everything in sight

Easily keep control via the control and visualization system with its intuitive operation and intelligent features.

It offers:

- ▶ a clearly laid out control panel with a graphic display to show the most important machine parameters at all times,
- ▶ an engine and transmission protection system,
- ▶ an automatic overload cut-out,
- ▶ twistlock position indicators,
- ▶ an operative and diagnostic black box.

The smart control system optionally also includes the following features:

- ▶ Automatic driver identification system
- ▶ Container height preselection
- ▶ Load position remote control
- ▶ On-demand load height or speed limitation
- ▶ Reversing sensors
- ▶ Camera system
- ▶ Weighing package including data printer

SMART FEATURES FOR SMART ACTION – WEIGHING PACKAGE

Our Stackace empty container handlers are smart machines – and as such they offer smart features. One of these is the optional weighing package.

It's smart operation: special sensors enable accurate load weighing on the spreader. The results can be printed out directly using the printer included in the package.

The benefits for the terminal operator:

- ▶ Precision
- ▶ Transparency
- ▶ Time saving



BENEFIT FROM A GREAT MATCH

TEREX DESIGN SINGLE BOX SPREADER

With your empty container handler, much relies on the Terex design spreader. The big advantage here is that, at this crucial juncture, we supply you with technology designed by ourselves.

Two of a kind

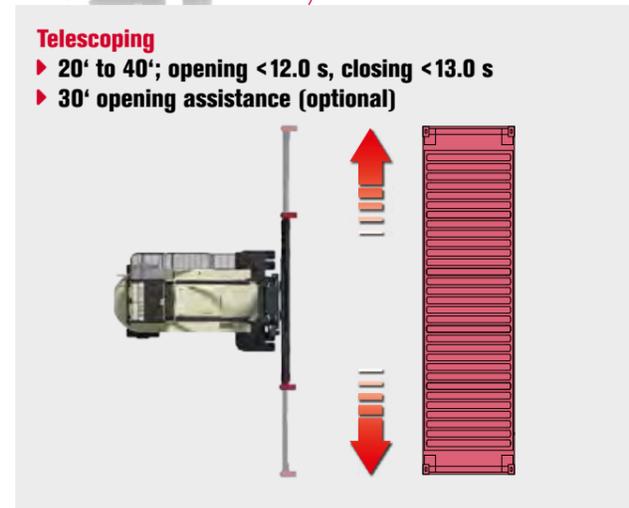
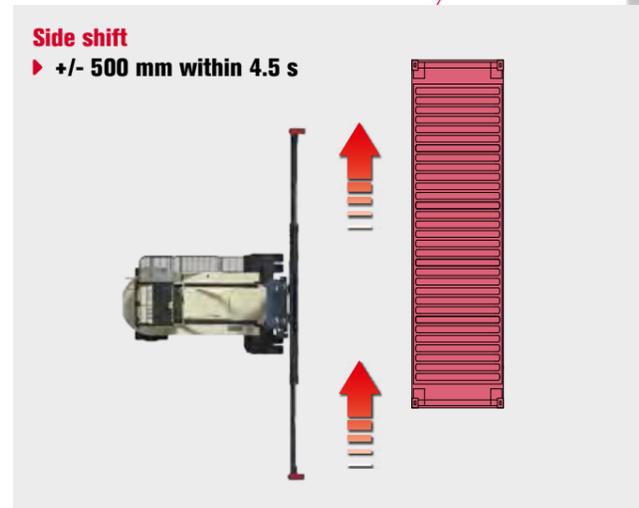
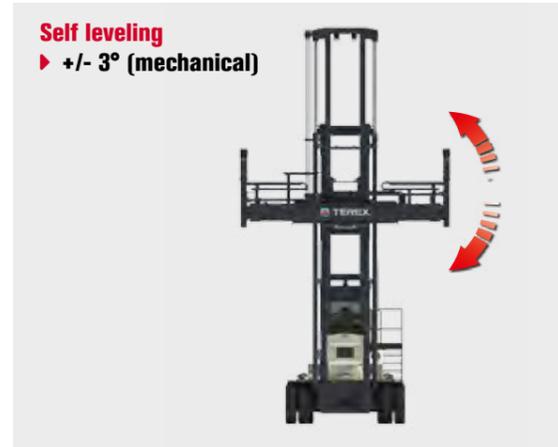
Like the empty container handlers, the spreaders have been designed at our location in Lentigione, Italy. Because our engineers know the entire technology inside-out, the two pieces of equipment work together perfectly. As a combination, they also perform well in particularly challenging situations.

Smooth interplay

The smooth interplay between both spreader and empty container handler provides you with further advantages:

- ▶ **High dynamics and low fuel consumption thanks to low spreader weight and good kinematics,**
- ▶ **Spreaders and empty container handlers configured according to your requirements,**
- ▶ **A durable and rugged overall package.**

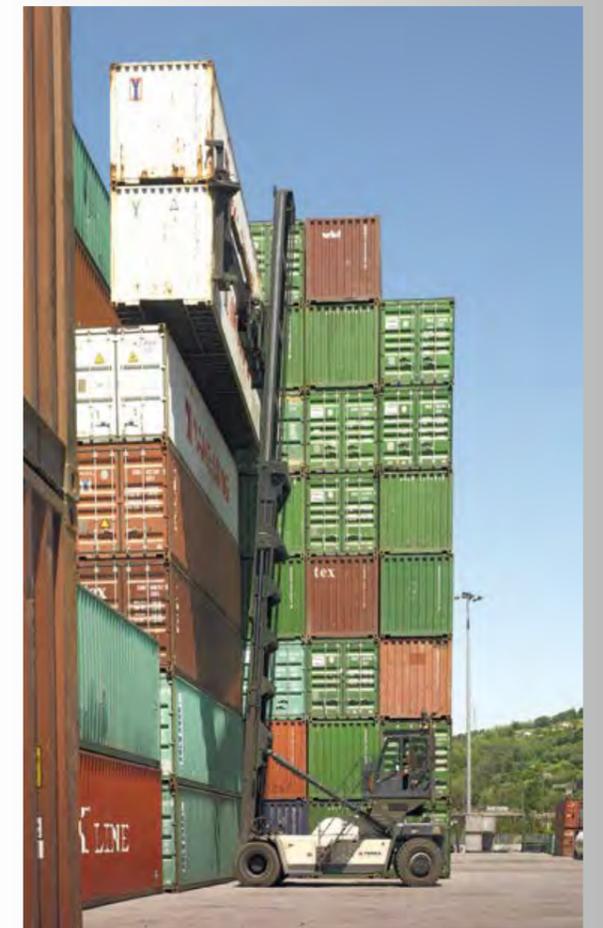
Terex design spreaders for Terex® Stackace™ empty container handlers are state-of-the-art and maintenance-friendly.



DOUBLE STRIKE – TWO CONTAINERS AT ONCE

In addition to the Terex Stackace models with single box spreader TPS offers empty container handlers that are equipped with a double box spreader. The Terex FDC 25K7 DB and FDC 25K8 DB models can stack 2-over-6 and 2-over-7 empty standard (8'6") containers. The containers are locked by hooks with side clamps.

These double box machines are especially designed for fast truck and coach loading and unloading. They handle two containers in one working step.



BE SMART, STAY GREEN

BRINGING OPERATING COSTS DOWN



Save money, protect the environment

Keep control of your total operating costs with your Terex® Stackace™ empty container handler – while also playing your part for the environment.

Cost-effectiveness and environmental awareness belong together at TPS – and they are both expressed in an innovative and responsible approach. The best examples: factors such as fuel consumption and tire wear.



Tire wear down

The Stackace empty container handlers offer considerably reduced wear, providing significant potential for savings in this area. Long tire service life is another powerful benefit for the environment.

In addition to the compact chassis with its excellent load distribution low tire wear is facilitated by:

- ▶ excellent engine/transmission tuning with its smooth delivery of effective power,
- ▶ six premium tires from leading manufacturers,
- ▶ optional tire pressure monitoring system.



Fuel consumption down

Low fuel consumption is good for your budget and the environment. That is why we have focussed on two areas in the Stackace empty container handlers: in addition to our state-of-the-art drive train and load-sensitive hydraulic system, the smart standard and optional features of the vehicle offer the potential for significant fuel savings.

These are for example:

- ▶ the Eco mode package including:
 - EcoPower operating mode for a balanced power and consumption ratio,
 - automatic engine shut down function,
 - automatic lights shut-down function,
- ▶ the automatic engine speed adjustment.



PROFIT FROM EASE OF SERVICING



KEYS TO ECONOMICAL OPERATION

We combine rugged design and good accessibility with our global service network to maintain a high level of reliability and availability for your Terex® Stackace™ empty container handler.

Rugged design, durable components

Terex Stackace empty container handlers are designed on the principle that the best service is the service you do not need. This is why, in addition to our rugged design, we rely on first-class components – for a long service life and long maintenance intervals.

Good accessibility for ease of servicing

If a service team still has to work on your machine, it needs to be back in operation fast. This is why we have built the Terex Stackace empty container handlers in such a way that you can access all service points quickly and easily:

- ▶ in the engine compartment,
- ▶ on the hydraulic system and
- ▶ the electric components.

Local presence, global service expertise

For Terex Stackace empty container handlers we combine local presence with global service expertise. Our global network of Regional Service Centers offers you:

- ▶ direct access to all services,
- ▶ fast access to spare parts from our Competence Center in Lentigione, Italy.



Fast control of fluid levels thanks to plainly visible indicators



Easy maintenance of drive train thanks to access via large maintenance hatches



Good access to hydraulic system and electric components



TEREX PORT SOLUTIONS

THE BROADEST RANGE OF CARGO HANDLING EQUIPMENT FOR PORTS AND TERMINALS

From ship-to-shore cranes and mobile harbour cranes to reach stackers through to integrated systems for fully automated container handling or professional bulk handling – Terex Port Solutions offers you the right solution from a single source.

With our broad portfolio of products, services and software, sound planning and advisory expertise and a global network, we are your expert for efficient, safe and environmentally aware cargo handling in ports and terminals.



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