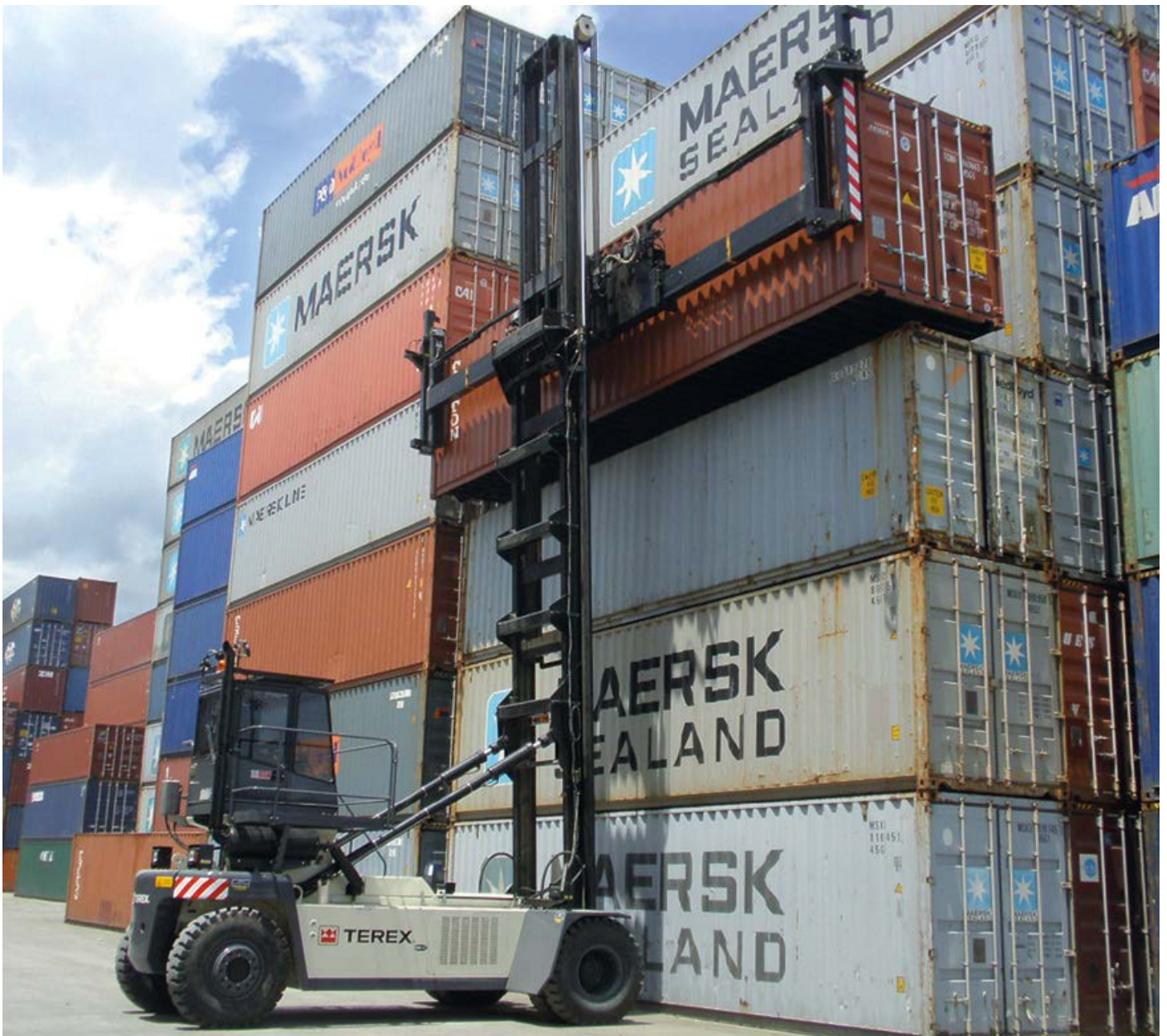


EMPTY CONTAINER HANDLERS

FAST AND ROBUST



WORKS FOR YOU.™

LIFTING WITH EASE

TEREX® EMPTY CONTAINER HANDLERS

Terex Port Solutions (TPS) offers a comprehensive portfolio of logistics solutions and state-of-the-art cargo handling equipment including lift trucks of various types. Among these, Terex empty container handlers are perfectly tailored for handling and stacking empty containers in a wide variety of terminal environments. Even the most demanding stacking operations can be mastered with ease.

Fast transport and easy handling

Terex empty container handlers offer lifting capacities of up to 10 t at spreader and travel speeds of up to 28 km/h under load. Empty container handlers from TPS can transport 20' to 40' containers in single or double box operation and stack them to a height of up to 2-over-7 standard containers.

The range of Terex empty container handlers

Models	Wheelbase [mm]		Capacities at spreader [t]			Maximum container stacking heights 8'6" standard containers					
	4,000	4,500	8	9	10	1-over-4	1-over-5	1-over-6	2-over-6	1-over-7	2-over-7
FDC 18K5	✓		✓			✓					
FDC 18K6	✓		✓				✓				
FDC 25J7				✓				✓			
FDC 25K7		✓			✓			✓			
FDC 25K7 DB*		✓			✓				✓		
FDC 25K8		✓			✓					✓	
FDC 25K8 DB*		✓			✓						✓

* DB (double box) versions can handle one additional container

Double box (DB) operation

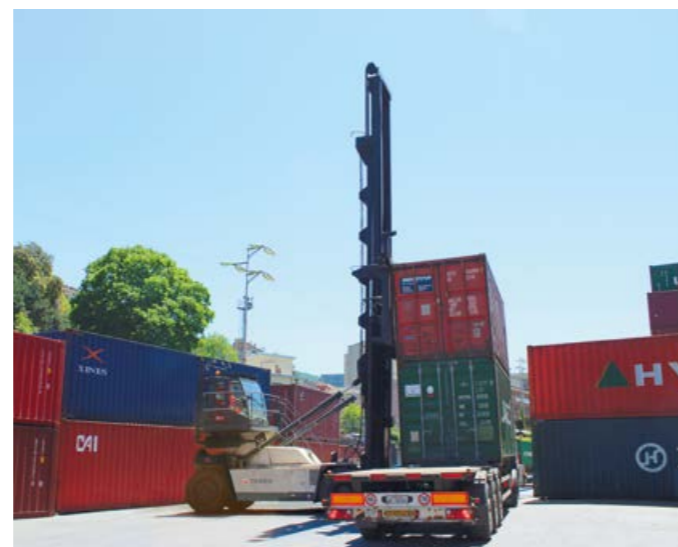
The Terex FDC 25K7 DB and FDC 25K8 DB empty container handlers are equipped with a double box spreader. Their stacking ability is 2-over-6 and 2-over-7 empty standard containers. The containers are locked by hooks with side clamps.

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

Easy, reliable and efficient operation

- ▶ Excellent cargo handling rates thanks to high traveling and lifting/lowering speeds
- ▶ Easy operation due to ergonomic design, innovative control systems and good operator visibility
- ▶ Long service life and reliability through robust construction and prime components
- ▶ Cost-effective operation thanks to modern, environmentally friendly drive technology and low maintenance expenses

The robust and compact design of Terex empty container handlers provides powerful container handling as well as excellent maneuverability between container stacks.



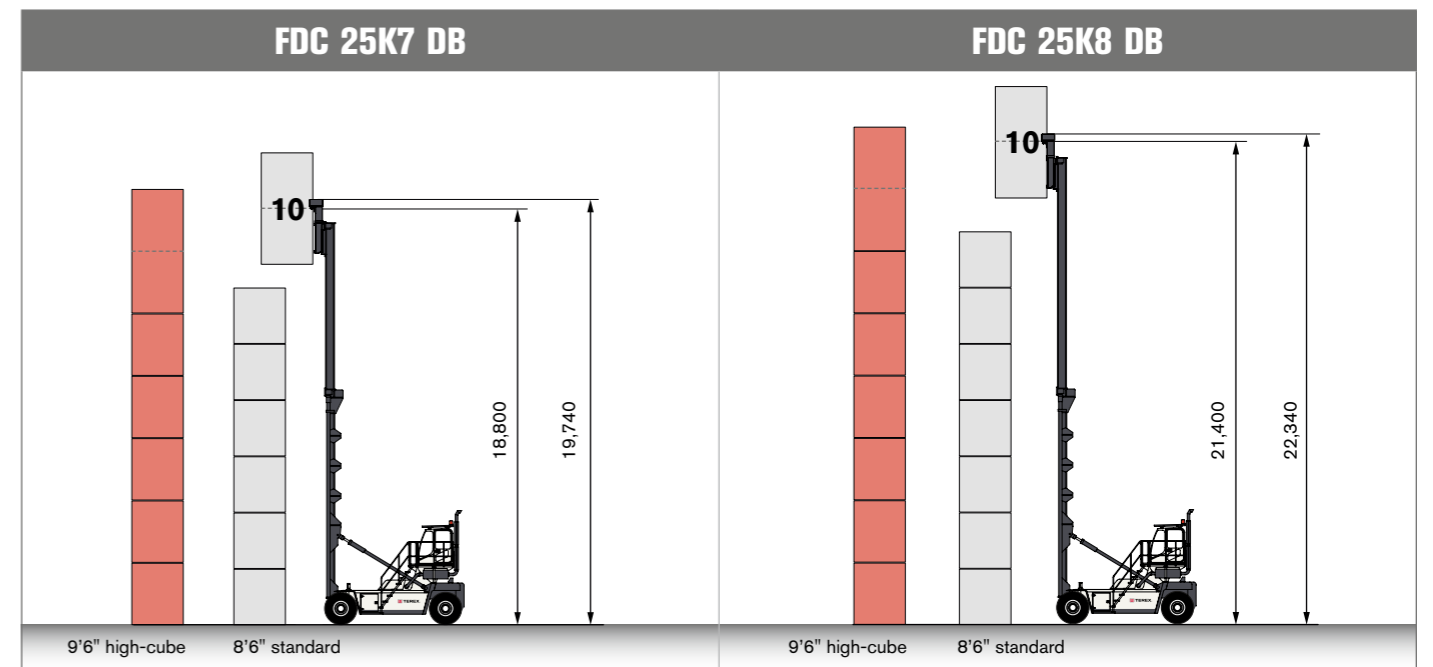
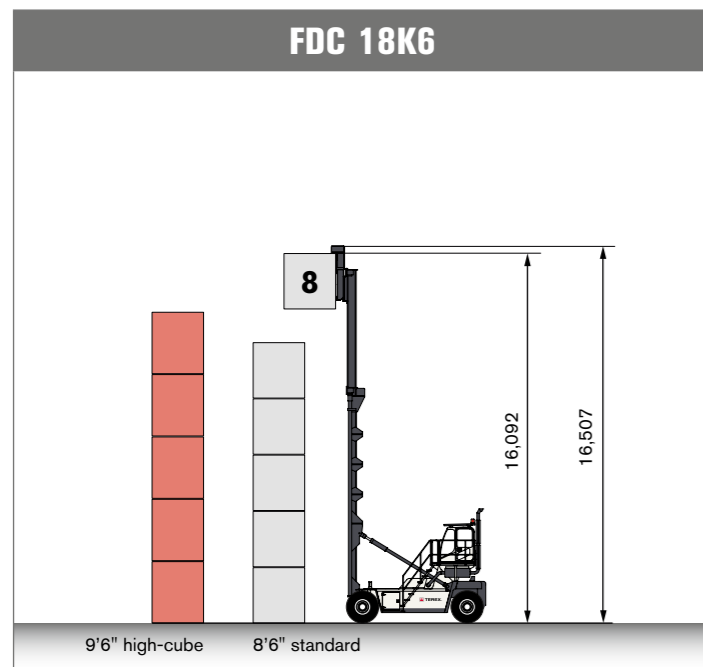
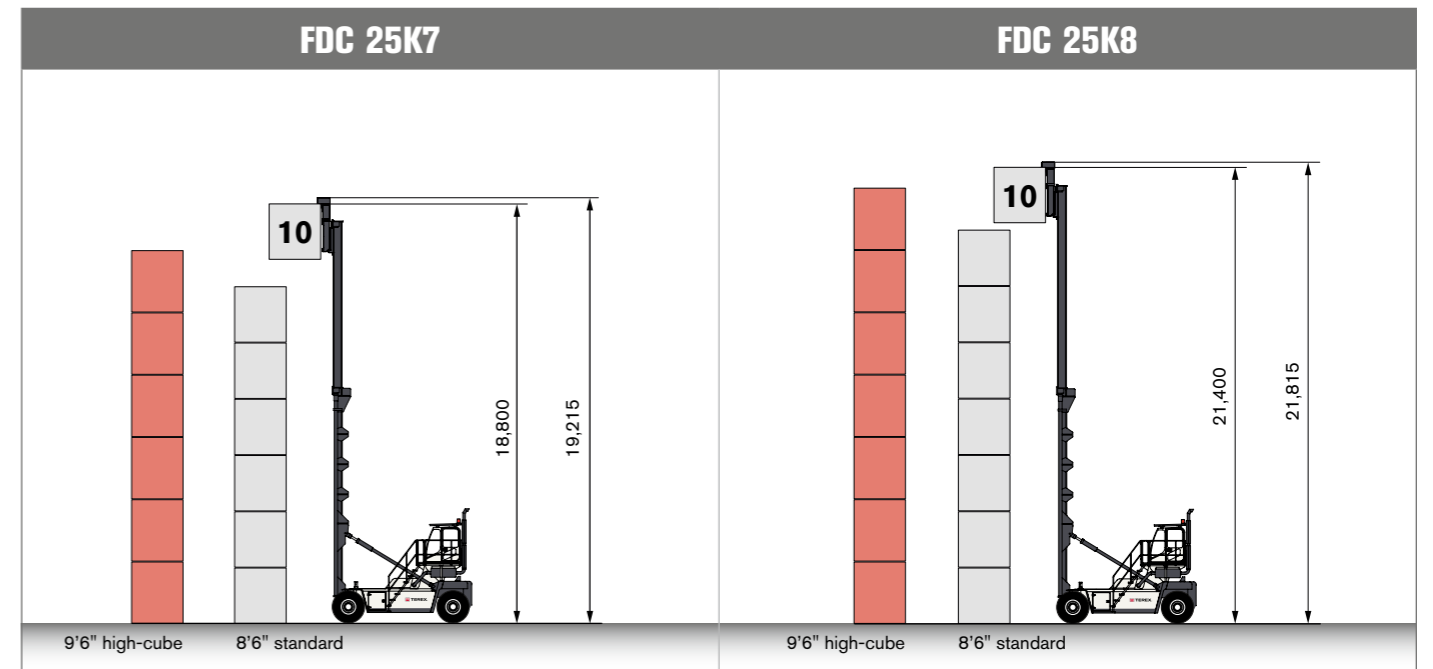
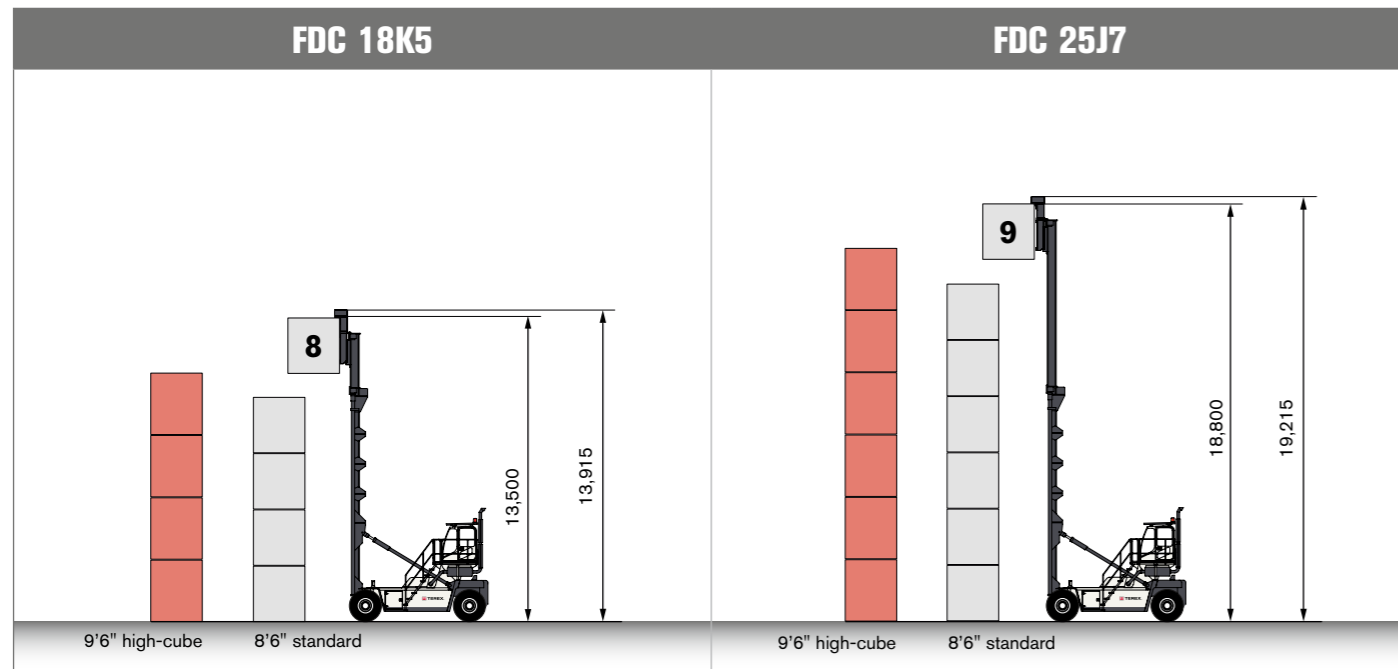
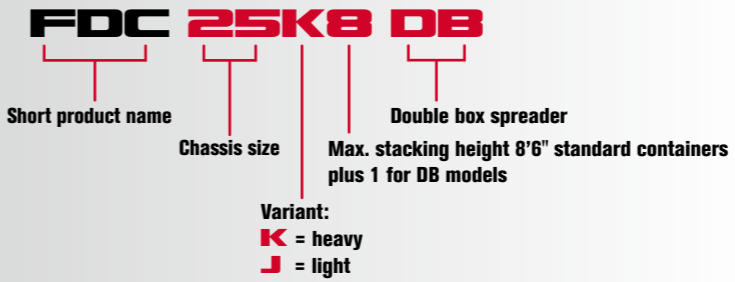
STACKING HIGH

LOAD CHARTS FOR THE WHOLE RANGE

Terex® empty container handlers offer high-speed stacking abilities up to a total height of 2-over-7 empty 8'6" standard containers with maximum capacities of 10 t at spreader.

The load charts lead you quickly to the Terex empty container handler model that suits your stacking needs for empty 8'6" standard containers and 9'6" high-cube containers.

EXAMPLE PRODUCT DESIGNATION



All dimensions in mm. All capacities in t.

EFFICIENT DRIVES, HIGH PERFORMANCE

TECHNICAL SPECIFICATIONS

State-of-the-art drive train

Terex® empty container handlers offer high handling performances and reduced operating costs thanks to their modern design and components. They combine a state-of-the-art drive train with engines and transmissions providing low fuel consumption and low exhaust emissions with powerful hydraulics and prime axle components.

Impressive performance data

The technical specifications below offer detailed information about the impressive performance of Terex reach stackers, including stacking capacities, speeds and weights.



Diesel engines and transmissions for Terex empty container handlers

Models	Standard engines	Optional engines	Models	Standard engines	Optional engines
FDC 18 - K5 - K6	Volvo TAD572VE Tier 4f (Stage IV) 160 kW @ 2,300 rpm 910 Nm @ 1,450 rpm	Cummins QSB6.7 Tier 4f (Stage IV) 142 kW @ 2,000 rpm 803 Nm @ 1,500 rpm	FDC 25 - K7 - K7 DB - K8 - K8 DB	Volvo TAD871VE Tier 4f (Stage IV) 185 kW @ 2,200 rpm 1,160 Nm @ 1,200 rpm	Cummins QSB6.7 Tier 4f (Stage IV) 194 kW @ 2,200 rpm 987 Nm @ 1,500 rpm
	Volvo TAD660VE Tier 3 (Stage IIIA) 147 kW @ 2,300 rpm 800 Nm @ 1,600 rpm	Cummins QSB6.7 Tier 3 (Stage IIIA) 142 kW @ 2,400 rpm 930 Nm @ 1,500 rpm		Volvo TAD750VE Tier 3 (Stage IIIA) 181 kW @ 2,300 rpm 1,050 Nm @ 1,500 rpm	Cummins QSC8.3 Tier 3 (Stage IIIA) 183 kW @ 2,200 rpm 1,162 Nm @ 1,500 rpm
FDC 25 - J7					
	Standard transmission	Optional transmission		Standard transmission	Optional transmission
	ZF 3WG 171 Speeds, forward / reverse 3 / 3	Dana TE 13 Speeds, forward / reverse 3 / 3		ZF 3WG 211 Speeds, forward / reverse 3 / 3	Dana TE 17 Speeds, forward / reverse 3 / 3

All standard and optional engines equipped with water cooling system.
All standard and optional transmissions equipped with hydraulic torque converter and automatic powershift control.

Models	FDC 18		J7	K7	FDC 25		
	K5	K6			K7 DB	K8	K8 DB
Driving axles							
Make	Kessler DB1						
Type	2-stage hub reduction						
Reduction	18.0	18.0	17.9	19.8	19.8	19.8	19.8
Braking system	Maintenance-free wet disc brakes						
Hydraulic systems							
Main system	Non proportional type			With gear pump (non proportional type) / With piston pump (proportional type)			
Main pump	Standard gear pump (Tier 3 [Stage IIIA] engine)		Standard gear pump (Tier 3 [Stage IIIA] engine) / Standard piston pump (Tier 4i [Stage IIIB] and Tier 4f [Stage IV] engine)				
Max. working pressure [bar]	190		210	210	225	210	225
Tank capacities							
Hydraulic oil [l]	300		400	400		400	
Fuel [l]	390		550	550		550	

Models	FDC 18			FDC 25			
	K5	K6	J7	K7	K7 DB	K8	K8 DB
Capacities							
Maximum stacking height							
- 8'6" standard container	1-over-4	1-over-5	1-over-5	1-over-6	2-over-6	1-over-7	2-over-7
- 9'6" high-cube container	1-over-3	1-over-4	1-over-5	1-over-5	2-over-5	1-over-6	2-over-6
Maximum capacity [t]	8		9	10		10	
Maximum speeds							
Lifting							
- laden [m/s]	0.43		0.50	0.50		0.50	
- unladen [m/s]	0.45		0.55	0.55		0.55	
Lowering							
- laden [m/s]	0.45		0.52	0.52		0.52	
- unladen [m/s]	0.45		0.50	0.50		0.50	
Traveling							
- laden [km/h]	25		26	28		28	
- unladen [km/h]	26		28	30		30	
Weights							
Maximum static axle load, front / rear							
- laden [t]	30.4 / 6.1	32.4 / 6.6	37.5 / 9.5	39.0 / 10.0	40.5 / 10.0	41.5 / 10.0	43.0 / 10.5
- unladen [t]	18.0 / 10.5	20.0 / 11.0	24.0 / 14.0	24.5 / 14.5	26.0 / 14.5	27.0 / 15.0	28.5 / 15.0
Dead weight [t]	28.5	31.0	38.0	39.0	40.5	42.0	43.5
Wheels and tires							
Tire size	12.00-20		12.00-24	14.00-24		14.00-24	
Rim size	8.50-20		8.50-24	10.00-24		10.00-24	
No. of wheels, front (driven) / rear	4 / 2		4 / 2	4 / 2		4 / 2	
Additional data							
Drawbar pull with standard engines							
Tier 4f (Stage IV) [t]	11.0		10.0	14.7		14.7	
Tier 3 (Stage IIIA) [t]	10.0		10.0	15.3		15.3	
Gradeability with Tier 4f (Stage IV) standard engines							
- laden [%]	26		19	26		26	
- unladen [%]	36		26	35		35	
Gradeability with Tier 3 (Stage IIIA) standard engines							
- laden [%]	24		24	28		28	
- unladen [%]	30		30	30		30	
Noise level, inside / outside of cabin [dB(A)]	75 / 85		75 / 85	75 / 85		75 / 85	
Stability factor	2.3		2.8	2.9	2.8	2.9	2.8

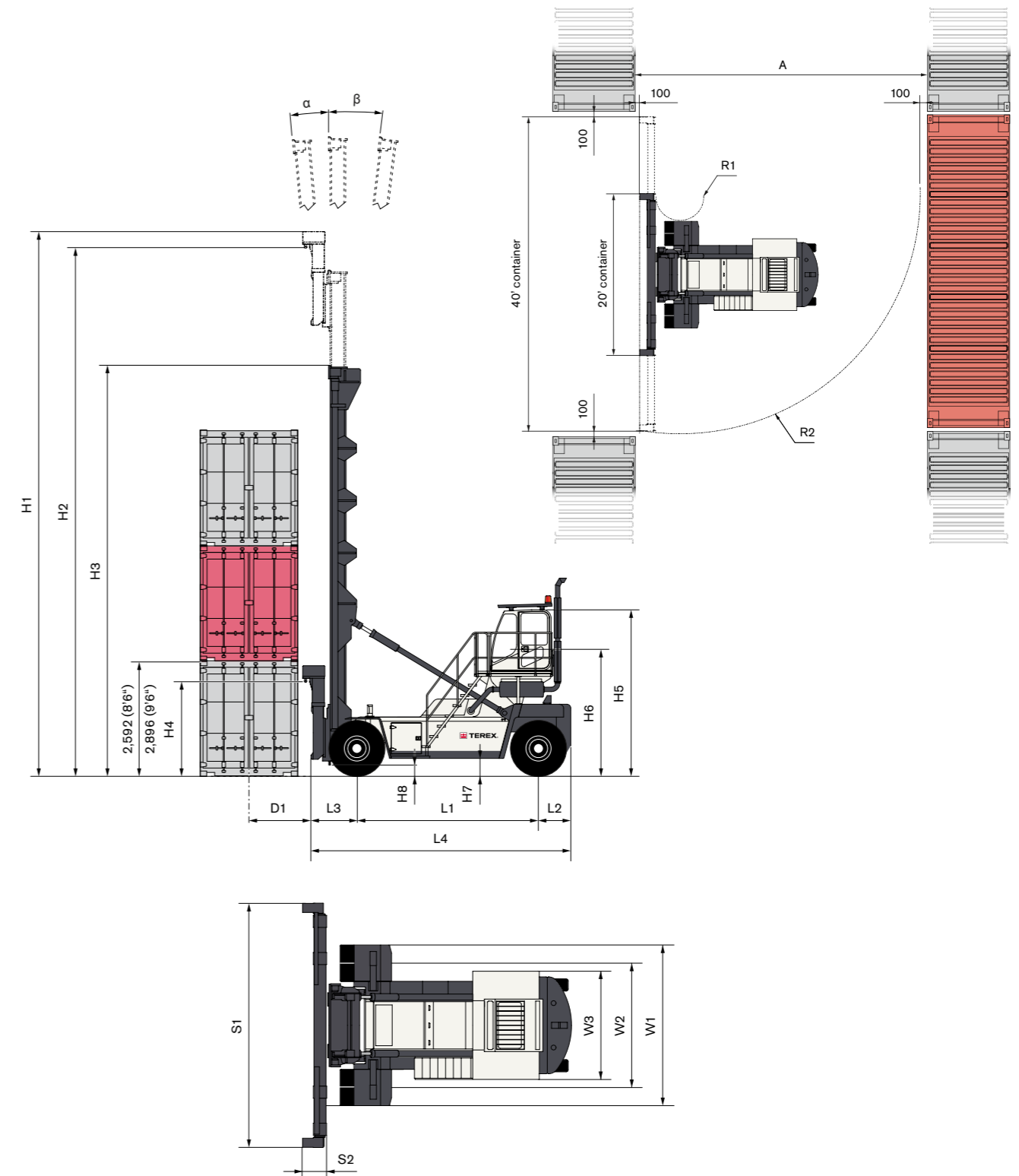
COMPACT DESIGN

MAIN DIMENSIONS

The compact design of Terex® empty container handlers provides flexible and powerful handling combined with excellent maneuverability between container stacks.

On this page, you will find a comprehensive overview of the entire model range allowing you to plan your operations precisely.

Models		FDC 18		FDC 25		K8		K8 DB	
		K5	K6	J7	K7	K7 DB	K8	K8 DB	
Heights									
H1	Total height, mast fully extended	[mm]	13,915	16,715	19,215	19,215	19,740	21,815	22,340
H2	Lifting height under twistlock / hooks	[mm]	13,500	16,300	18,800	18,800		21,400	
H3	Total height, mast closed	[mm]	7,550	8,800	10,100	10,100		11,400	
H4	Min. height under twistlocks / hooks	[mm]	2,300	2,300	2,300	2,300		2,300	
H5	Cab height	[mm]	3,700	4,100	4,100	4,100		4,100	
H6	Seat height	[mm]	2,600	3,000	3,000	3,000		3,000	
H7	Ground clearance truck (laden)	[mm]	300	300	300	300		300	
H8	Ground clearance spreader, mast closed (unladen)	[mm]	250	250	250	250		250	
Widths									
W1	Front width	[mm]	3,500	4,000	4,200	4,200		4,200	
W2	Front tread	[mm]	2,850	3,250	3,250	3,250		3,250	
W3	Rear width	[mm]	2,500	2,500	2,500	2,500		2,500	
Lengths									
L1	Wheelbase	[mm]	4,000	4,500	4,500	4,500		4,500	
L2	Rear overhang	[mm]	800	800	800	800		800	
L3	Distance front axle centre to front of load	[mm]	1,000	1,050	1,050	1,100	1,050	1,100	
L4	Truck length	[mm]	5,800	6,350	6,350	6,400	6,350	6,400	
Distances									
D1	Distance front of load to load centre	[mm]	1,220	1,220	1,220	1,220		1,220	
Other dimensions									
α	Maximum mast tilting angle, forward	[°]	3	3	3	3		3	
β	Maximum mast tilting angle, backward	[°]	6	6	6	6		6	
90° stacking aisle									
A	- 20' containers	[mm]	9,620	11,300	11,300	11,300		11,300	
	- 40' containers	[mm]	14,000	15,100	15,100	15,100		15,100	
Internal turning radius									
R1	- 20' containers	[mm]	3,600	3,900	3,900	3,900		3,900	
	- 40' containers	[mm]	5,000	7,100	7,100	7,100		7,100	
External turning radius									
R2	- 20' containers	[mm]	5,500	6,000	6,000	6,000		6,000	
	- 40' containers	[mm]	8,735	9,900	9,900	9,900		9,900	
Terex® Spreader									
S1	Length	[mm]	6,100	6,100	6,100	6,100		6,100	
S2	Width	[mm]	550	550	550	550		550	



SUITED TO YOUR NEEDS

STANDARD AND OPTIONAL EQUIPMENT

Terex® empty container handlers are well-equipped in standard configuration. In addition, TPS offers a comprehensive range of optional equipment and features to configure your Terex empty container handler precisely to your needs.

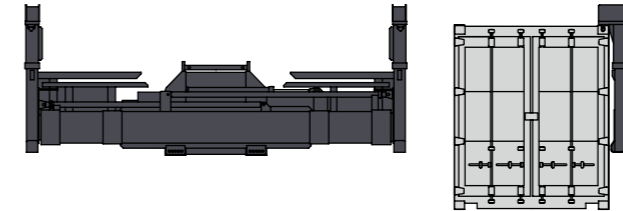


Section	Standard	Option
Additional design features		
Lighting		
- Bulb traffic and working lights	✓	
- Stroboscopic revolving beacon	✓	
- LED working lights		✓
- LED traffic lights		✓
- Additional working lights on mast and spreader		✓
Tires		
- Tubeless pneumatic tires	✓	
- Plain tread tires		✓
- Spare tire		✓
- Tire pressure display		✓
Others		
- Emergency steering pump		✓
- Low temperature kit		✓
- Fire suppression system		✓
- Fire extinguisher		✓
- Heated rear-view mirrors		✓
- Manual battery disconnect switch	✓	
- Electronic battery disconnect switch		✓

Equipment

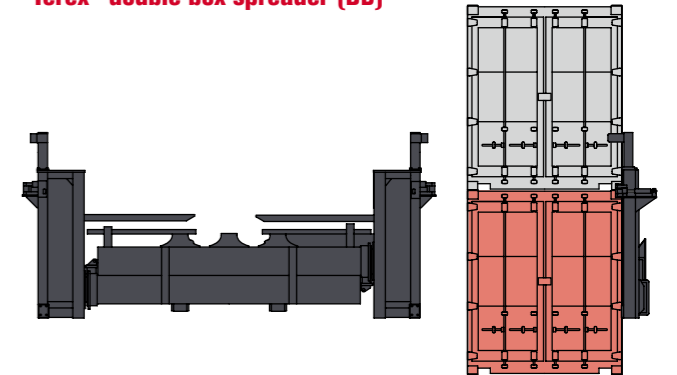
Section	Standard	Option
Control systems		
Logitex		
- 4.3" TFT color display	✓	
- Operative and diagnostic black box		
- Eco-Power fuel saving mode		
- Eco-Light saving mode		
- Eco-Engine auto shut-down		
- Data download via USB		
Digitex (including all functions of Logitex)		
- 7" TFT color display		✓
- Rear camera		✓
My Service system	✓	
Driver identification system		✓
Automatic lifting cut-off in case of overload detection		✓
Height limiting sensor	✓	
Load measurement with pressure sensors		✓
Weight printer (only together with pressure sensors)		✓
Container height preselection		✓
Rear parking sensors		✓
Cab		
Rear elevated cab	✓	
Roll-over bar		✓
High comfort seat		
- with mechanical suspension	✓	
- with pneumatic suspension		✓
Air conditioning		✓
Auxiliary heating system		✓
Radion (AM/FM), antenna and loudspeakers		✓
Chassis		
Automatic lubrication for chassis and mast		✓
Towing hook		✓
Deposit basket for interlocks		✓
Mast and spreader		
Single box telescopic spreader 20' / 40', mechanic self leveling	✓	
Automatic lubrication for spreader		✓
Spreader stop at 30'		✓
Chain tensioning accumulator		✓
4-high mast (for FDC 18 K models only)		✓
6-high mast (for FDC 25 J)		✓
Pallet wide container handling		✓

Terex® single box spreader



- ▶ Type: telescopic (20' to 40' container)
- ▶ Side shift:
 - +/- 400 mm (FDC 18 models)
 - +/- 550 mm (FDC 25 models)
- ▶ Self leveling: +/- 3° (mechanic)
- ▶ Container locking: twistlocks

Terex® double box spreader (DB)

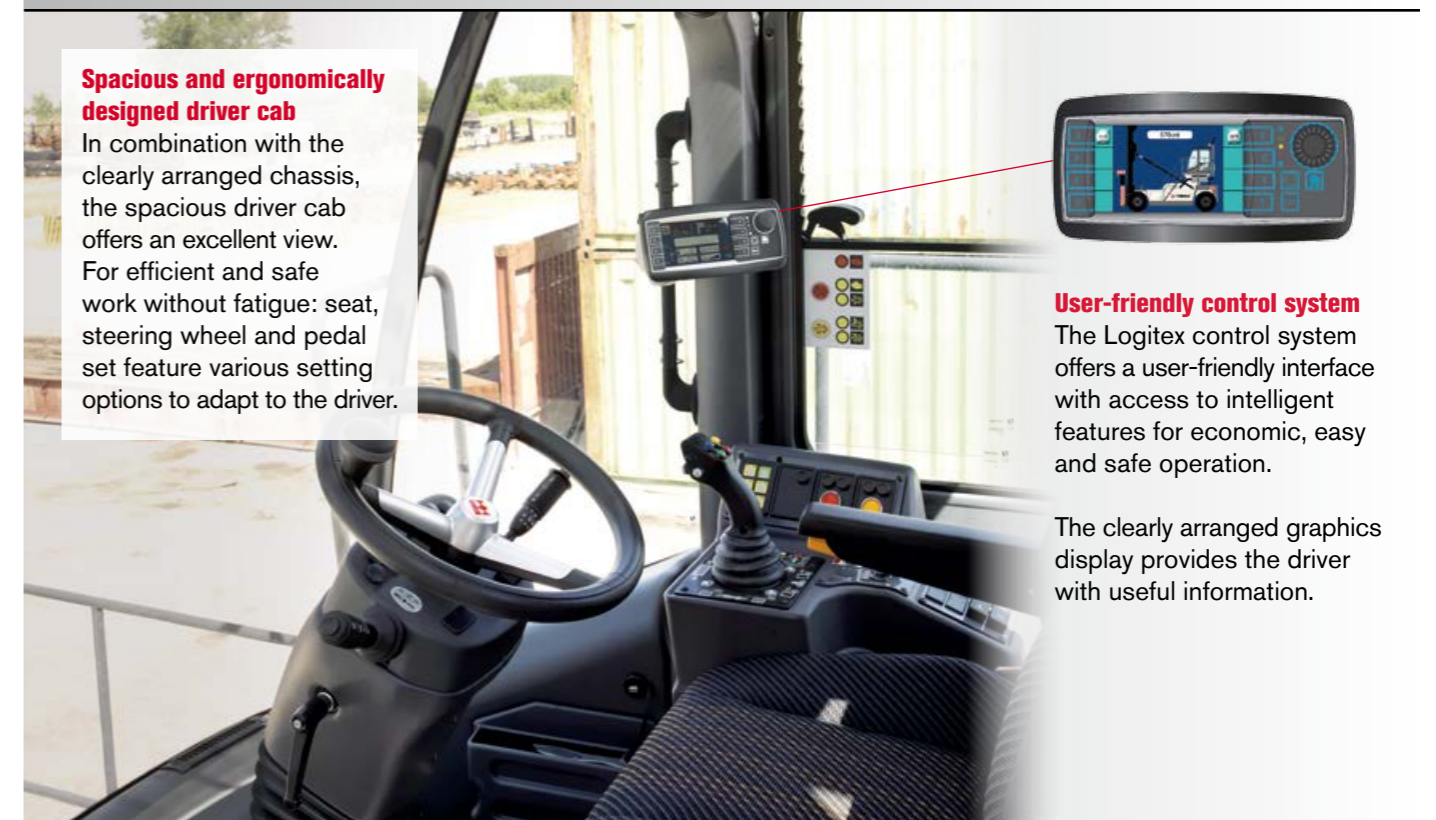


- ▶ Type: telescopic (20' to 40' container)
- ▶ Side shift: +/- 350 mm
- ▶ Self leveling: +/- 3° (hydraulic)
- ▶ Container locking: hooks with side clamps
- ▶ Available on models FDC 25K7 DB and FDC 25K8 DB

DRIVER CAB

Spacious and ergonomically designed driver cab

In combination with the clearly arranged chassis, the spacious driver cab offers an excellent view. For efficient and safe work without fatigue: seat, steering wheel and pedal set feature various setting options to adapt to the driver.



User-friendly control system

The Logitex control system offers a user-friendly interface with access to intelligent features for economic, easy and safe operation.

The clearly arranged graphics display provides the driver with useful information.

AROUND THE CLOCK, AROUND THE WORLD, AROUND YOUR BUSINESS

LIFE CYCLE SUPPORT

Global support on a local level

We are committed to keeping your equipment in service to increase your return on investment. Whether support comes from a local distributor or direct from the factory, operators can depend on Terex Port Solutions.

- ▶ Erection and commissioning
- ▶ Maintenance team and operator training
- ▶ Parts management
- ▶ Inspection and maintenance
- ▶ Refurbishment and upgrades
- ▶ Repairs
- ▶ Fleet management
- ▶ Relocation



Our skilled service team is always close to you and enables you to exploit the full potential of your equipment and boost your productivity

www.terexportsolutions.com

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