





WORKS FOR YOU.

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STREAMLINED SOLUTIONS

Terex Port Solutions offers a comprehensive portfolio of state-of-the-art cargo handling equipment, port management software and logistics solutions. Our Terex® and Terex® Gottwald machinery moves cargo quickly, safely and efficiently thanks to innovative features like our economical and environmentally compatible drive systems.

Our approach to service is simple – a single, responsive point of contact to address all of your needs and serve as your go-to expert. Our go-to experts develop state-of-the-art solutions for planning, equipping and operating your ports and terminals, today, tomorrow and beyond. And with our global sales and service network, no other company is better positioned to be there for you – anywhere in the world – with the equipment and service to help your business grow.







Product Range

Loading & Unloading	Ship-to-Shore Cranes (STS) Harbour Cranes (HC)	
Transport	Straddle Carriers (SC)	7
Storage	Automated Stacking Cranes (ASC)Rubber-Tyred Gantry Cranes (RTG)	10
Handling	Reach Stackers (RS) Full Container Handlers (FCH) Empty Container Handlers (ECH) Forklift Trucks (FLT)	13 14
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Standard configuration data shown may vary according to options and/or country standards.

LOADING & UNLOADING







■ TEREX® GOTTWALD

Ship-to-Shore Cranes (STS)

Capacities		
Container handling	from 20' to 45' in single, twin and tandem mode	
Ship size	Feeder, Panamax, post-Panamax and Super-post-Panamax	
Lifting capacity under spreader	from 40 t (44 US tons) to 65 t (72 US tons) single and twin-lift mode; from 80 t (88 US tons) to 120 t (132 US tons) tandem mode	
Dimensions		
Span	from 16 to 30.5/35 m (50 ft to 100/115 ft)	
Outreach	from 30 to 70 m (100 ft to 217 ft)	
Backreach	from 12 to 30 m (39 ft to 100 ft)	
Lifting height from dock level	from 21 to 51.5 m (82 ft to 144 ft)	
Lifting height under dock level	from 10 to 20 m (33 ft to 66 ft)	
Bumper to bumper overall	27 m (88 ft 7 in) standard	
Speeds		
Hoisting with load	from 60 to 90 m/min (196 to 295 ft/min)	
Hoisting with empty spreader	from 120 to 180 m/min (394 to 590 ft/min)	
Trolley travel	from 150 to 244 m/min (492 to 800 ft/min)	
Gantry travel	ravel 45 m/min (150 ft/min) standard	
Specifications & options		
Drive: Fully electric, power consumal alternative power supply through consumations.	nption up to 1,500 kW/external power supply (standard)/ n-board diesel generator	
Steel construction variants (boom/t	rolley girder): Monobox/double box/lattice	
Trolley: Rope-drawn, self-propelled trolley with or without slewing gea	d or machine house trolley/variant with two trolleys/ r (+/-180°)	

Special designs: "Low profile" ship-to-shore cranes/"goose neck" design

Harbour Cranes (HC)

	Max lifting capacity [t] (US tons)/up to radius [m] (ft)	Max radius [m] (ft)	Configuration*
MODEL 2	80 (88)/17 (55.8)	40 (131)	2/4
MODEL 3	100 (110) / 20 (65.6)	46 (151)	2
MODEL 4	100 (110) / 22 (72.2)	46 (151)	2/4
MODEL 5	125 (138) / 18 (59.1)	51 (167)	2
MODEL 6	125 (138) / 20 (65.6)	51 (167)	2/4
MODEL 7	150 (165) / 18 (59.1)	54 (177)	2/4
MODEL 8	200 (220) / 20 (65.6)	58 (190)	2/4

^{*2:} Two-rope crane for handling containers, general and project cargo and bulk with motor grab

Models available as these types: mobile harbour crane, portal harbour crane, rubber-tyred portal harbour crane (Model 2 only), floating crane as harbour pontoon crane and portal harbour crane on barge, pedestal-mounted harbour crane

^{4:} Four-rope grab variant for professional heavy-duty bulk handling

TRANSPORT







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Straddle Carriers (SC)

	Lifting capacity [t] (US tons)	Stacking capability (9'6" Container)	Max travel speed** [km/h]
NSC 634 H*	50 (55)	1-over-2	30
NSC 644 H*	50 (55)	1-over-3	24
NSC 634 E*	50 (55)	1-over-2	30
NSC 644 E*	50 (55)	1-over-3	24
NSC 634 E ECO*	50 (55)	1-over-2	30
NSC 644 E ECO*	50 (55)	1-over-3	24

^{*} In exceptional cases 60 t (66 US tons) lifting capacity can be achieved; actual capacity is dependent on capacity of spreader

E ECO: diesel-electric drives (hoisting and traveling) as hybrid with ECOCap energy recovery system

Sprinter Carriers (SPC)

	Lifting capacity [t] (US tons)	Stacking capability (9'6" Container)	Max travel speed [km/h]
NSC 422 H*	40 (44)	1-over-1	32
NSC 622 H	50 (55)	1-over-1	32
NSC 424 E	40 (44)	1-over-1	32
NSC 624 E	50 (55)	1-over-1	32
NSC 424 E ECO	40 (44)	1-over-1	32
NSC 624 E ECO	50 (55)	1-over-1	32

^{*} In exceptional cases 60 t (66 US tons) lifting capacity can be achieved; actual capacity is dependent on capacity of spreader

E ECO: diesel-electric drives (hoisting and traveling) as hybrid with ECOCap energy recovery system

^{**} Electronically controlled for safety reasons

H: diesel-hydraulic drives (hoisting and traveling)
E: diesel-electric drives (hoisting and traveling)

H: diesel-hydraulic drives (hoisting and traveling)

diesel-electric drives (hoisting and traveling)

TRANSPORT



STORAGE



TEREX, GOTTWALD

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Automated Guided Vehicles (AGV)

General characteristics

AGV or Lift AGV
Diesel-electric or battery-electric
+/- 25 mm (+/- 0.08 ft)
1 x 20', 1 x 40' or 1 x 45' container 2 x 20' containers 1 x 30' container as an option
40 t (44 US tons)
70 t (77 US tons)
approx. 14.8 m (48.5 ft)
approx. 3.0 m (9.8 ft)
approx. 1.9 - 2.4 m* (6.2 - 7.9 ft)*
6 m/s (19.7 ft/min)

3 m/s (9.8 ft/min)

1 m/s (3.3 ft/min)

Curves

Crab steering

Available as turn-key solutions including full automation features like navigation system, fleet management software and more.

Automated Stacking Cranes (ASC)

Capacities

Container handling	from 20' to 45' in automated single lift mode
Capacity - under spreader	41 t (45 US tons) in automated single lift mode

Dimensions of typical stack module

Length	35 - 50 TEUs
Span	9 - 11 container rows
- Height	1-over-5 high-cube containers
Container spacing	500 mm (1.6 ft) end-to-end 400 mm (1.3 ft) side-to-side

Speeds

Hoisting with full load	> 39 m/min (> 128 ft/min)	
Hoisting with empty spreader	up to 72 m/min (236 ft/min)	
Trolley travel at full load	60 m/min (196 ft/min)	
Gantry travel at full load	240 m/min (787 ft/min)	

Special design

Also available as cantilever ASC (C ASC).

Automated stacking cranes are customized products and can be included in a turn-key project.

All given data are typical application values and vary due to project specifications.

^{*} Depending on AGV type

STORAGE





TEREX

Rubber-Tyred Gantry Cranes (RTG)

Capacities

from 20' to 45' in single and twin-lift mode
from 40 t (44 US tons) to 50 t (55 US tons) single and twin-lift mode
18.1 m (60 ft) 5+1 high-cube container 21 m (69 ft) 6+1 high-cube container
23.5 m (77 ft) 6+1 truck line 26.5 m (87 ft) 7+1 truck line

Speeds

- I	
Hoisting with load	up to 30 m/min (98 ft/min)
Hoisting with empty spreader	up to 60 m/min (196 ft/min)
Trolley travel	up to 75 m/min (246 ft/min)
Gantry travel with empty spreader	up to 135 m/min (443 ft/min)

Specifications & options

Drive: Fully electric/power supply via on-board diesel generator (up to 750 kW) or External power supply: Busbars, on the ground or high up/overhead line/guided power cable

Energy saving/recovery: Optimized diesel generator idling control/hybrid drive with flywheel as energy storage system/hybrid drive with battery as energy storage system

Types available: 8 or 16 wheels

Control and navigation systems: Remote crane management system/differential GPS/ container tracking/automatic steering

TEREX®

Rail-Mounted Gantry Cranes (RMG)

Capacities

Container handling	from 20' to 45' in single and twin-lift mode
Capacity - under spreader	from 40 t (44 US tons) to 65 t (72 US tons) single and twin-lift mode
Lifting height – under heavy-lift beam	from 10.5 m (34 ft) railways operation to 18.1/21 m (60/69 ft) for stacking operation
Span	22.5 m (77 ft) to 50 m (164 ft)
Cantilevers	with/without, on one or both sides; up to 14.5 m (48 ft) working range
Trolley	rotating (+/-180°) or non-rotating type

Speeds

Hoisting with load	up to 40 m/min (131 ft/min)
Hoisting with empty spreader	up to 80 m/min (262 ft/min)
Trolley travel	up to 100 m/min (328 ft/min)
Gantry travel with empty spreader	up to 120 m/min (394 ft/min)

Specifications & options

Drive: Fully electric, power consumption up to 1,500 kW/external power supply (standard), alternative power supply via on-board diesel generator

Types available: With or without a cantilever on one or both sides/working ranges up to 28 m each end

Load-handling attachments: Traveling hoist with slewing gear (+/-180°) or without slewing gear/ piggy-back spreader for intermodal applications

Additional features: Load antisway/verified weighing equipment

Control and navigation systems: container tracking/remote crane management system/automatic positioning

HANDLING







TEREX_®

Reach Stackers (RS)

	1st/2nd/3rd	Container		
	Container row capacity [t] (US tons)	stacking height	Wheelbase [m]	Application
TFC 45	45/27/13 (50/30/14)	5 x 9'6''	6	full container
TFC 45 R	45/31.5/16 (50/35/18)	5 x 9'6''	6	full container
TFC 45 M	45/32/16 (50/35/18)	5 x 9'6"	6.5	full container
TFC 45 MR	45/35/19 (50/39/21)	5 x 9'6"	6.5	full container
TFC 46 M DRY	45/33/17 (50/36/19)	6 x 8'6''	6.5	full container
TFC 46 M	45/35/19 (50/38/21)	6 x 9'6''	6.5	full container
TFC 46 MS	45/45/26 (50/50/28)	6 x 9'6''	6.5	full container
TFC 46 MX	45/41/23 (50/45/25)	6 x 9'6''	6.5	full container
TFC 46 MSX*	45/45/30 (50/50/33)	6 x 9'6''	6.5	intermodal
TFC 46 LS DRY	45/45/30 (50/50/33)	6 x 8'6''	7	intermodal
TFC 46 LSR	45/45/33 (50/50/36)	6 x 8'6''	7	intermodal
TFC 46 LSX DRY	45/45/36 (50/50/39)	6 x 8'6''	7	intermodal
TFC 46 LX DRY	45/45/24 (50/50/26)	6 x 8'6''	7	intermodal
CS 45 KM	45/31/15 (50/34/17)	5 x 9'6''	6	full container

^{*} Values on stabilizer

TFC 45, TFC 45 R are available with hydraulic (h) or electronic (hc) controls. All models can be equipped with an intermodal/piggy-back spreader.

Full Container Handlers (FCH)

	Capacity under spreader [t] (US tons)	Container stacking height	Telescopic spreader type / locking system
FDC 360 S3	31 (34)	3 x 8'6"	top/twistlocks
FDC 450 S4	38 (42)	4 x 9'6"	top/twistlocks
FDC 500 S5	40 (44)	5 x 9'6"	top/twistlocks
FDC 360 G3	30 (33)	3 x 8'6"	top/twistlocks
FDC 450 G4	38 (42)	4 x 9'6"	top/twistlocks
FDC 480 G4	40 (44)	4 x 9'6"	top/twistlocks
FDC 500 G5	40 (44)	5 x 9'6"	top/twistlocks

Version G: fitted with gantry spreader

Version S: fitted with spreader mounted onto inverted forks with quick release system





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Empty Container Handlers (ECH)

	Capacity under spreader [t] (US tons)	Container stacking height*	Telescopic spreader type / locking system
FDC 18K5	8 (9)	5 x 8'6"	side/twistlocks
FDC 18K6	8 (9)	6 x 8'6"	side/twistlocks
FDC 25J7	9 (10)	7 x 8'6"	side/twistlocks
FDC 25K7	10 (11)	7 x 8'6"	side/twistlocks
FDC 25K7 DB	10 (11)	7 x 8'6"	side/hooks
FDC 25K8	10 (11)	8 x 8'6"	side/twistlocks
FDC 25K8 DB	10 (11)	8 x 8'6"	side/hooks

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

Forklift Trucks (FLT)

	Capacity with forks [t] (US tons)	Load center [mm] (in)	Standard lifting height [mm] (in)*
FDC 150	15 (16)	1,225 (48)	3,500 (138)
FDC 160	16 (18)	1,225 (48)	3,500 (138)
FDC 180	18 (20)	1,225 (48)	3,500 (138)
FDC 200	20 (22)	1,225 (48)	3,500 (138)
FDC 250	25 (28)	1,225 (48)	3,500 (138)
FDC 250 RoRo	25 (28)	1,225 (48)	3,100 (122)
FDC 280	28 (31)	1,225 (48)	3,500 (138)
FDC 320	32 (35)	1,225 (48)	4,100 (161)
FDC 320 RoRo	32 (35)	1,225 (48)	6,000 (236)
FDC 350	35 (39)	1,225 (48)	4,100 (161)
FDC 350 RoRo	35 (39)	1,225 (48)	6,000 (236)
FDC 420	42 (46)	1,225 (48)	5,100 (200)
FDC 450	45 (50)	1,225 (48)	5,100 (200)
FDC 480	48 (53)	1,225 (48)	5,100 (200)
FDC 520	52 (57)	1,225 (48)	5,100 (200)

^{*} Different lifting height configurations available for each model on demand

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



With our training courses, we enable you to exploit the full potential of your equipment and boost your productivity

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