

HIGH STANDARD LIFT TRUCKS

KONECRANES LIFTACE REACH STACKERS



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Konecranes Liftace Reach Stackers consist of the well-known TFC models and the R models launched in April 2015 under the Liftace name. Built on engineering tradition and expertise, these reach stackers are dependable workhorses, simple to maintain, robust and good value for money. Thanks to a high degree of standardization, terminal operators benefit from short delivery lead times – making Konecranes Liftace Reach Stackers available, servicable and durable.

Konecranes Liftace Reach Stackers are of high standard and specially designed to work with modern control systems and drive technology. Engines comply with emission standards EU Stage IIIA (EPA Tier 3) and EU Stage IV (EPA Tier 4 final).

Versatile, reliable and powerful

Whether for use in port, railway or intermodal terminals, in container stackyards or any other area of logistics, Konecranes Liftace Reach Stackers are known for good quality, robust design and reliability in operation when handling containers or heavy general cargo. With the durable Konecranes Liftace Spreaders, 20' to 40' containers are stacked up to 1-over-6 high-cube containers high.

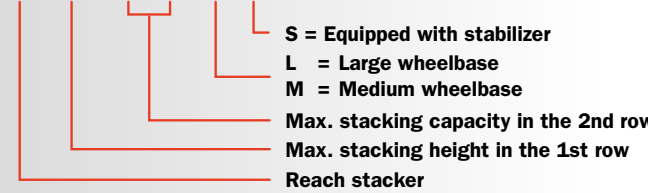
To handle general cargo, the machines can be fitted with dedicated lifting gear. Konecranes Liftace Reach Stackers meet the challenges of professional cargo handling with high loading capacities of 45 t and high working speeds while providing simple and safe operation.

Konecranes Liftace Reach Stackers at a glance

- Productive – working speeds for efficient handling rates
- Economical – low fuel consumption and predictable maintenance cost
- Simple – operation and maintenance
- Proven technology – agile, robust and reliable
- Safe – reliable monitoring and excellent visibility

NEW PRODUCT DESIGNATION

R 6-45 LS



The reach stackers launched under the Liftace name in April 2015 have been renamed. Their previous designation is now preceded by an R.



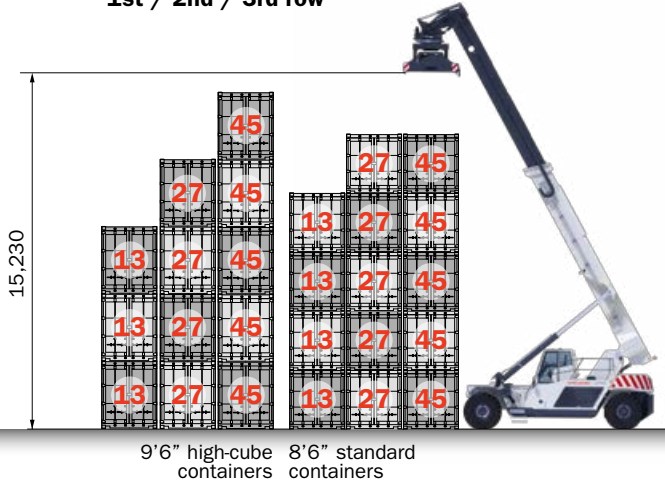
TECHNICAL DATA

Model	TFC 45 h/hc *	TFC 45 R h/hc *	R 5-31	R 5-33	R 5-36	R 6-36 M	R 6-41 MS	R 6-45 LS
Capacities								
Front stabilizer (stacking capacities with stabilizer applied)							✓	✓
Maximum stacking height, 1st / 2nd / 3rd row								
– 8'6" standard containers	5 / 5 / 4	5 / 5 / 4	5 / 5 / 4	5 / 5 / 4	5 / 5 / 4	6 / 6 / 5	6 / 6 / 5	6 / 5 / 4
– 9'6" high-cube containers	5 / 4 / 3	5 / 4 / 3	5 / 4 / 3	5 / 4 / 3	5 / 4 / 3	6 / 5 / 4	6 / 5 / 4	5 / 5 / 4
Maximum capacity, 1st / 2nd / 3rd row [t]								
– 8'6" and 9'6" containers	45 / 27 / 13	45 / 31 / 16	45 / 31 / 15	45 / 33 / 17	45 / 36 / 18	45 / 36 / 18	45 / 41 / 31	45 / 45 / 36
Maximum speeds								
Lifting [m/s]								
– laden, 26 t	h: 0.25 / hc: 0.26	h: 0.25 / hc: 0.26	0.34	0.34	0.34	0.34	0.34	0.34
– unladen	h: 0.34 / hc: 0.40	h: 0.34 / hc: 0.40	0.45	0.45	0.45	0.45	0.45	0.45
Lowering [m/s]								
– laden, 26 t	0.50	0.50	0.45	0.45	0.45	0.45	0.45	0.45
– unladen	0.30	0.30	0.30	0.30	0.30	0.30	0.30	0.30
Traveling [km/h]								
– laden, 45 t	25	25	25	25	25	25	25	20
– unladen	25	25	25	25	25	25	25	20
Weights [t]								
Total weight (unladen, with standard top pick spreader)	68	72	71	73	75	72	80	81
Axle load, front / rear [t]								
– laden, 45 t (boom α = 45°)	87 / 26	87 / 30	87 / 29	87 / 31	87 / 33	88 / 29	89 / 36	85 / 41
– laden, 30 t (boom α = 45°)	69 / 29	69 / 33	69 / 32	69 / 34	69 / 36	70 / 32	71 / 39	68 / 43
– unladen (boom α = 25°)	36 / 32	36 / 36	38 / 33	38 / 35	38 / 37	38 / 34	40 / 40	39 / 42
Wheels and tires								
Tire size	18.00-25	18.00-25	18.00-25	18.00-25	18.00-33	18.00-25	18.00-33	18.00-33
Rim size	13.00-25	13.00-25	13.00-25	13.00-25	15.00-25	13.00-25	15.00-25	15.00-25
Number of wheels, front (driven) / rear	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2	4 / 2
Additional data								
Drawbar pull [kN]								
– with standard Stage IIIA (Tier 3) engine Cummins QSM11	290	290	280	280	260	280	260	260
– with standard Stage IV (Tier 4f) engine Volvo TAD1170VE	n.a.	n.a.	280	280	260	280	260	260
– with optional Stage IV (Tier 4f) engine Cummins QSL9	n.a.	n.a.	280	280	260	280	260	260
Maximum gradeability with standard Stage IIIA (Tier 3) engine [%]								
– laden, 45 t	24.8	24.5	24.0	23.0	20.0	23.0	20.0	20.0
– unladen	42.0	40.0	40.0	38.0	34.0	39.0	32.0	32.0
Maximum gradeability with standard Stage IV (Tier 4f) engine [%]								
– laden, 45 t	n.a.	n.a.	24.0	23.0	20.0	23.0	20.0	20.0
– unladen	n.a.	n.a.	40.0	38.0	34.0	39.0	32.0	32.0
Maximum gradeability with optional Stage IV (Tier 4f) engine [%]								
– laden, 45 t	n.a.	n.a.	24.0	23.0	20.0	23.0	20.0	20.0
– unladen	n.a.	n.a.	40.0	38.0	34.0	39.0	32.0	32.0

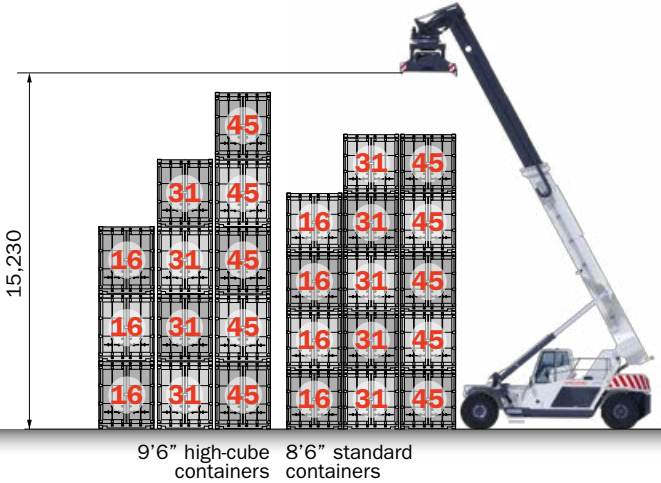
* TFC 45 and TFC 45 R are available with hydraulic (h) or electronic (hc) controls.
All other models are equipped with electronic controls.

LOAD CHARTS

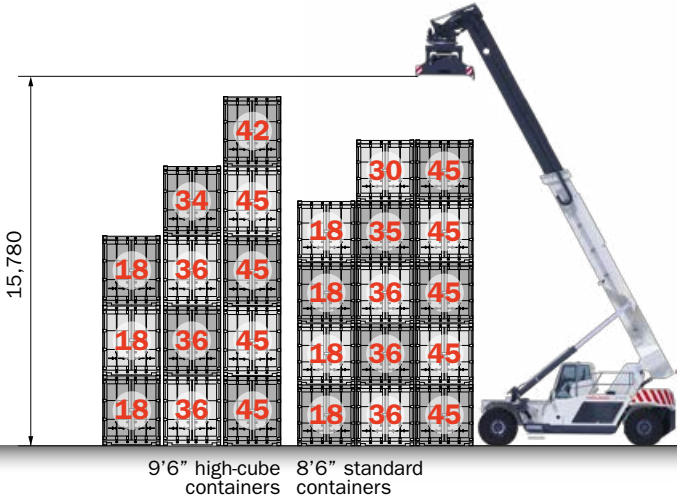
Capacity and maximum stacking height,
1st / 2nd / 3rd row



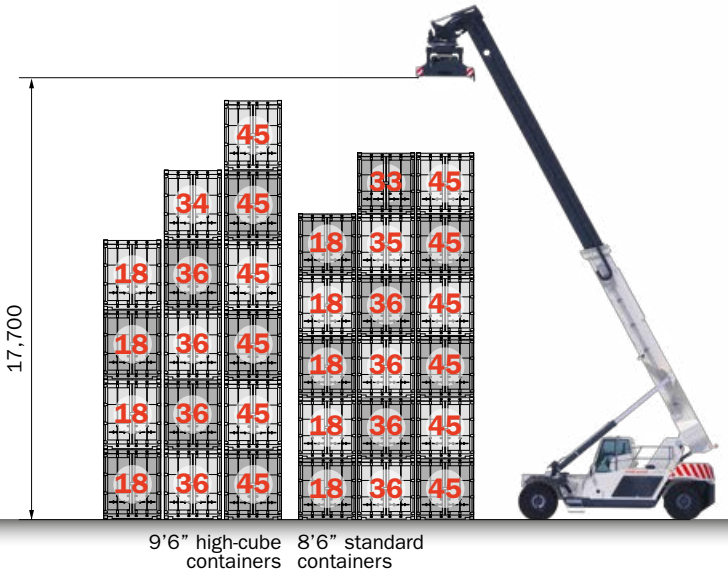
TFC 45 h/hc



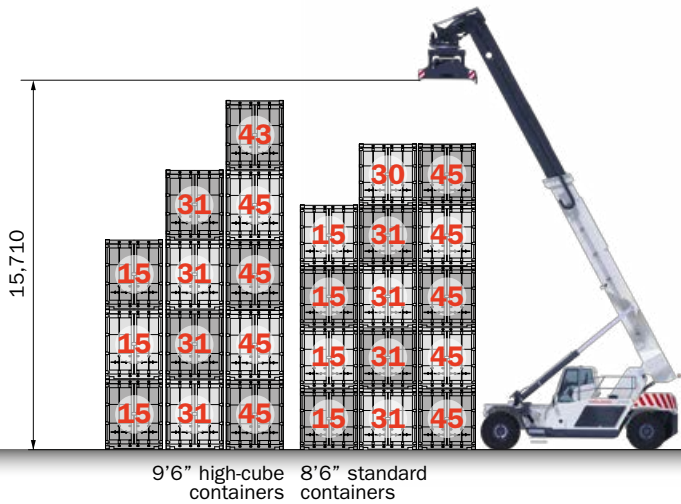
TFC 45 R h/hc



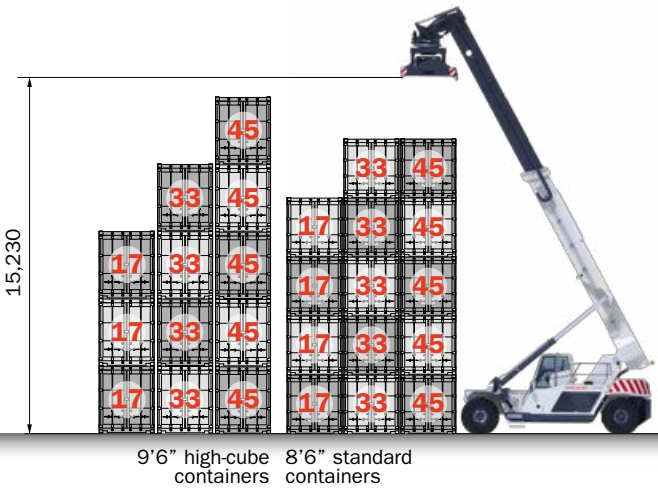
R 5-36



R 6-36 M



R 5-31



R 5-33



R 6-41 MS



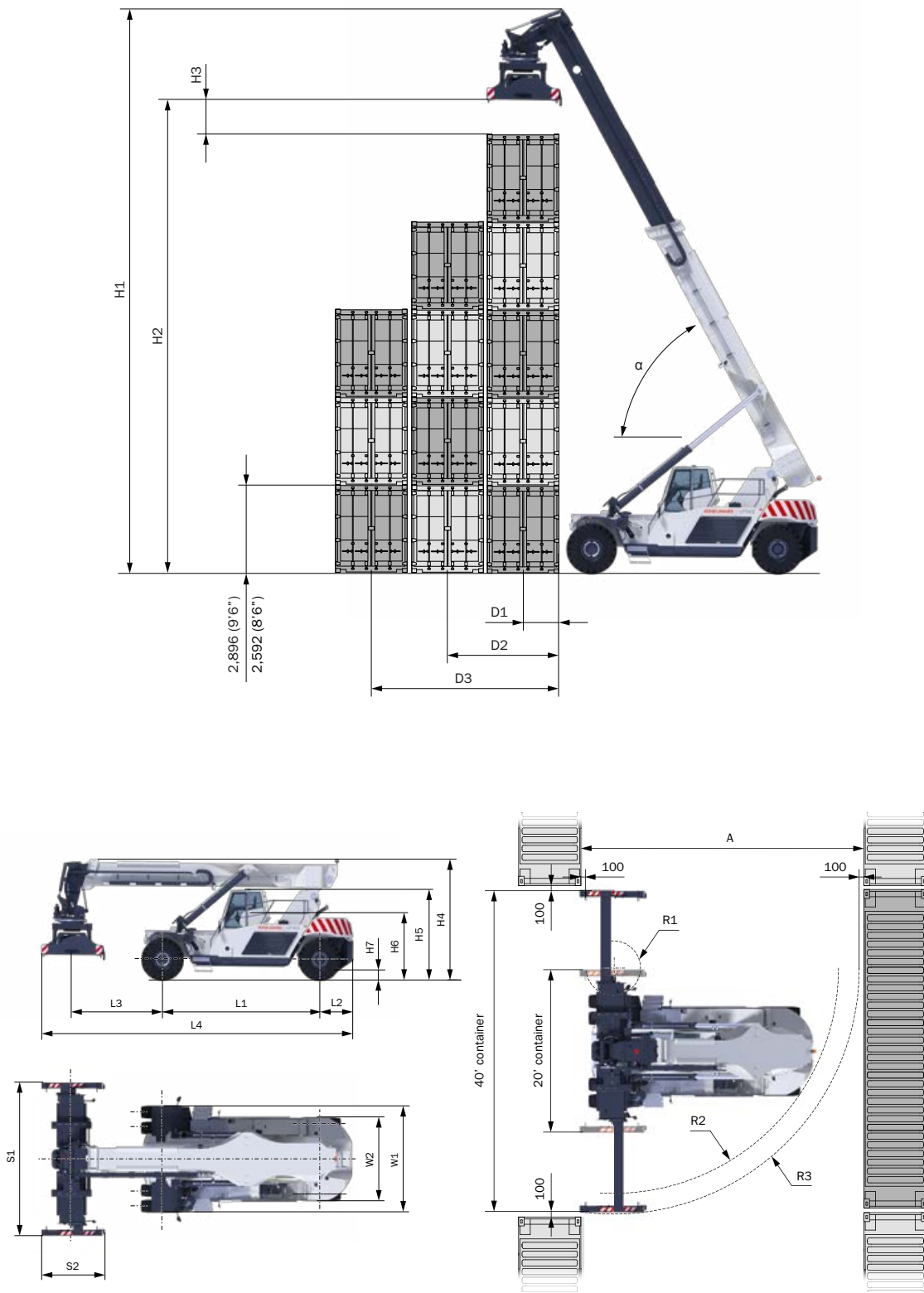
R 6-45 LS

All dimensions in mm. All capacities in t.

DIMENSIONS

Model		TFC 45 h/hc*	TFC 45 R h/hc*	R 5-31	R 5-33	R 5-36	R 6-36 M	R 6-41 MS	R 6-45 LS
Heights [mm]									
H1	Maximum boom height, 1st row	18,530	18,530	18,900	18,900	18,970	20,780	20,850	20,850
H2	Maximum lifting height under twist-lock, 1st row	15,230	15,230	15,710	15,710	15,780	17,375	17,375	17,070
H3	Lifting height clearance ¹⁾								
	– 8'6" containers	2,270	2,270	2,755	2,755	2,825	2,150	2,090	1,500
	– 9'6" containers	750	750	1,240	1,240	1,310	330	280	2,570
H4	Minimum boom height	4,530	4,530	4,640	4,640	4,710	4,710	4,710	4,710
H5	Cab height	3,600	3,600	3,550	3,550	3,620	3,620	3,620	3,620
H6	Seat height	2,600	2,600	2,530	2,530	2,600	2,600	2,600	2,600
H7	Ground clearance (unladen)	320	320	270	270	340	270	340	340
Widths [mm]									
W1	Front	4,190	4,190	4,190	4,190	4,190	4,190	4,190	4,190
W2	Rear	3,345	3,345	3,345	3,345	3,345	3,345	3,345	3,345
Lengths [mm]									
L1	Wheelbase	6,000	6,000	6,200	6,200	6,200	6,600	6,600	7,000
L2	Rear overhang	1,300	1,300	1,300	1,300	1,300	1,300	1,300	1,300
L3	Minimum distance driving axle center to load center	3,450	3,450	3,580	3,580	3,580	3,920	3,920	3,515
L4	Overall length	11,950	11,950	12,290	12,290	12,290	13,020	13,020	13,020
Distances [mm]									
D1	From tires to load center (1st row)	2,500	2,500	2,500	2,500	2,500	2,500	2,500	2,000
D2	From tires to load center (2nd row)	3,860	3,860	3,815	3,815	3,815	3,815	3,815	3,815
D3	From tires to load center (3rd row)	6,400	6,400	6,315	6,315	6,315	6,315	6,315	6,315
Other dimensions									
α	Maximum boom angle [°]	62.0	62.0	65.0	65.0	65.0	65.0	65.0	60.0
A	90° stacking aisle [mm]								
	– 20' container	10,210	10,210	9,900	9,900	9,900	9,900	10,620	10,820
	– 40' container	12,830	12,830	12,390	12,390	12,390	12,390	12,390	12,390
R1	Internal turning radius [mm]	1,840	1,840	1,200	1,200	2,000	1,300	2,100	2,300
R2	Rear turning radius [mm]	8,700	8,700	8,500	8,500	8,900	8,950	9,350	9,600
R3	External turning radius, 40' container [mm]	10,420	10,420	9,500	9,500	10,250	10,420	10,420	10,620
Spreader [mm]									
S1	Length	6,072	6,072	6,072	6,072	6,072	6,072	6,072	6,072
S2	Width	2,400	2,400	2,400	2,400	2,400	2,400	2,400	2,400

1) Referred to maximum stacking height.



All dimensions in mm. All capacities in t.

STANDARD EQUIPMENT

TFC models	R models
Control system	Control system
IQAN-MD3 ¹⁾	Motronica® control system
– Load moment indicator	– 7" TFT color display
– 3.5" TFT color display	– Operative and diagnostic black box
– Displayed values: boom length, angle and radius; hydraulic flows and pressures	– Container counter
– Internal memory capacity of 80,000 records	– Load moment indicator with pressure sensors
– Load moment indicator	– EcoPower fuel saving mode
	– Black box data download via USB
Auto-diagnostic function	– My Service system
Anti-tipping device	CAN bus for engine, transmission and hydraulics
Cab	Vertical lifting control
Ergonomically designed, soundproofed (noise level ≤ 70 dB(A))	Automatic lifting cut-off in case of overload detection
High comfort seat	Engine and transmission protection system
– with mechanical suspension	Power on demand
Air conditioning and heating system	Reverse driving audio signal
CD audio system ²⁾	Cab
Additional design features	Comfortable and ergonomically designed with excellent visibility
Lighting	2-point driver safety belt
– Bulb traffic and working lights	Air conditioning and heating systems
Tires	Manual sliding
– Tubeless pneumatic tires	Rear emergency window
Spreader and lifting gear	Front, rear and top wipers
Top pick spreader	12 V & 24 V plugs
– ISO containers (20' / 40') with mechanical pile slope	CD/radio system
Automatic stop at 30' and automatic locking ³⁾	Additional design features
Electrical & mechanical twistlock safety system	Lighting
12 t lifting eye on each spreader corner	– LED working lights
	– LED traffic lights
	– Marker lights
	Wheel nut protection
	Master battery disconnect
	2-stage heavy duty air intake filter
	Spreader and lifting gear
	Top pick spreader
	– ISO containers (20' / 40') with mechanical pile slope
	Automatic stop at 30'
	Electrical & mechanical twistlock safety system
	12 t lifting eye on each spreader corner

1) Option for model TFC 45 h.

2) Option for models TFC 45 h and TFC 45 R h.

3) Only for hc versions.

More information about additional options on request.


More information about additional options on request.

TFC models		R models	
Diesel engines			
Make	Cummins QSM 11	Cummins QSM 11	Volvo TAD1170VE
Emission standard	Stage IIIA (Tier 3)	Stage IIIA (Tier 3)	Stage IV (Tier 4 final)
Type	Inline 6 cylinders, turbocharged	Inline 6 cylinders, turbocharged	Inline 6 cylinders, turbocharged
Cooling system	Water	Water	Water
Displacement [l]	11	11	11
Maximum power [kW @ rpm]	239 @ 1,800	239 @ 1,800	235 @ 1,800
Maximum torque [Nm @ rpm]	1,478 @ 1,500	1,478 @ 1,500	1,550 @ 1,400
Alternator	70 A - 24 V	70 A - 24 V	110 A - 24 V
Batteries	2 x 12 V - 200 Ah	2 x 12 V - 200 Ah	2 x 12 V - 200 Ah
Transmission			
Make	Dana TE27 418	Dana TE30 (Optionally with lock-up clutch)	
Type	Automatic powershift control		Automatic powershift control
Speeds, forward / reverse	4 / 4		5 / 3
Driving axle			
Make	Kessler D102		Kessler D102
Type	Double reduction		Double reduction
Braking system	Maintenance free wet disc brakes		Maintenance free wet disc brakes
Steering system	Fully hydrostatic with double acting steering cylinders		Fully hydrostatic with double acting steering cylinders
Hydraulic system			
Main system	Load sensing control		Load sensing control
Main pump	Variable displacement double piston pump (145 cm³ + 75 cm³)		Variable displacement double piston pump (145 cm³ + 75 cm³)
Maximum working pressure [bar]	320		320
Tank capacities			
Hydraulic oil [l]	750		750
Fuel [l]	700		700

Konecranes Liftace Top Pick Spreader for TFC and R models	
Lifting system	4 vertical twistlocks, ISO pendular
Telescoping, 20' to 40' [s]	12
Side shift, +/- 800 mm [s]	15
Slewing, +210°/-125° [s]	65
Mechanical pile slope [°]	+/- 4
Powered pile slope [°] (optional)	+/- 5
Tilting [°]	+/- 10
Weight [t]	8



Konecranes is a world-leading group of Lifting Businesses™, serving a broad range of customers, including manufacturing and process industries, shipyards, ports and terminals. Konecranes provides productivity enhancing lifting solutions as well as services for lifting equipment of all makes. The Group has 18,000 employees at 600 locations in 50 countries. Konecranes is listed on Nasdaq Helsinki (symbol: KCR).

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