

TEREX CRANES

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SUPERSTACKER Gamme TFC



QSM11

PPM

		TFC 45	TFC 45R	TFC 45RS	TFC 45L	TFC 45LS	TFC LSX
TRANSLATION							
Vitesse AV/AR	à vide	25 Km/h	25 Km/h	25 Km/h	25 Km/h	25 Km/h	25 Km/h
	en charge 45 t	24 Km/h	23 Km/h	23 Km/h	23 Km/h	23 Km/h	23 Km/h
Rampe franchissable maxi	à vide	37 %	35 %	34 %	33 %	32 %	30%
	en charge 45 t	21 %	20,5 %	20 %	20 %	19,5 %	18,5%
Effort de traction		25,8 t	25,8 t	25,8 t	25,8 t	25,8 t	25,8 t
POIDS AVEC PALONNIER STANDARD							
A vide avec flèche baissée	Pont AV	35,55 t	35,4 t	35,72 t	34,3 t	35,65 t	38,5 t
	Essieu AR	31,6 t	34,5 t	37,98 t	39,95 t	39,6 t	42,5 t
	Total	67,15 t	69,9 t	73,7 t	74,25 t	75,25 t	81 t
En charge en translation	Pont AV	90,75 t	90,6 t	85,7 t	81,45 t	82,75 t	86 t
* 45 t	Essieu AR	21,4 t	24,3 t	33 t	37,8 t	37,5 t	40 t
	Total	112,15 t	114,9 t	118,7 t	119,25 t	120,25 t	126 t
En statique, levage 45 t en 1 R	Pont AV	93,9 t	93,9 t	88,9 t	92,75 t	94,10 t	105,5 t
	Essieu AR	18,25 t	21,1 t	29,8 t	26,5 t	26,15 t	20,5 t
	Total	112,15 t	114,9 t	118,7 t	119,25 t	120,25 t	126 t
FLECHE							
Télescopage sortie	à vide	28 sec.	28 sec.	28 sec.	28 sec.	28 sec.	25 sec.
		0,25 m/s	0,25 m/s	0,25 m/s	0,25 m/s	0,25 m/s	0,25 m/s
	en charge 45 t	32 sec.	32 sec.	32 sec.	32 sec.	32 sec.	28 sec.
		0,22 m/s	0,22 m/s	0,22 m/s	0,22 m/s	0,22 m/s	0,22 m/s
Télescopage rentrée	à vide	25 sec.	25 sec.	25 sec.	25 sec.	25 sec.	22 sec.
		0,28 m/s	0,28 m/s	0,28 m/s	0,28 m/s	0,28 m/s	0,28 m/s
	en charge 45 t	20 sec.	20 sec.	20 sec.	20 sec.	20 sec.	18 sec.
		0,35 m/s	0,35 m/s	0,35 m/s	0,35 m/s	0,35 m/s	0,35 m/s
Relevage montée de 0 à 60°	à vide	22 sec.	22 sec.	22 sec.	22 sec.	22 sec.	22 sec.
	en charge 45 t	25 sec.	25 sec.	25 sec.	25 sec.	25 sec.	25 sec.
Relevage descente de 60 à 0°	à vide	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.
	en charge 45 t	20 sec.	20 sec.	20 sec.	20 sec.	20 sec.	20 sec.
Elevation du conteneur jusqu'en 5 ^{ème} hauteur en mouvements combinés	à vide	50 sec.	50 sec.	50 sec.	50 sec.	50 sec.	50 sec.
		0,23 m/s	0,23 m/s	0,23 m/s	0,23 m/s	0,23 m/s	0,23 m/s
	en charge 30 t	56 sec.	56 sec.	56 sec.	56 sec.	56 sec.	56 sec.
		0,20 m/s	0,20 m/s	0,20 m/s	0,20 m/s	0,20 m/s	0,20 m/s
Descente du conteneur de 5 ^{ème} hauteur au sol en mouvements combinés	à vide	35 sec.	35 sec.	35 sec.	35 sec.	35 sec.	35 sec.
		0,33 m/s	0,33 m/s	0,33 m/s	0,33 m/s	0,33 m/s	0,33 m/s
	en charge 30 t	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.
		0,38 m/s	0,38 m/s	0,38 m/s	0,38 m/s	0,38 m/s	0,38 m/s

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MOTEUR		Conforme CE stage 2 / EPA-2
Marque/type		Cummins / QSM11
Refroidissement		Par eau
Carburant		Fioul
Principe		4 temps, 6 cylindres en ligne suralimenté par turbocompresseur
Puissance	SAE J 1995 / ISO 3046 / DIN 6271	Maxi : 320 CV (239 kW) à 1800 tr/mn Nominale : 290 CV (216 kW) à 2100 t/mn
Couple maxi à 1400 t/mn	SAE J 1995 / ISO 3046 / DIN 6271	1478 Nm
Cylindrée		10,82 l
Alternateur (marque / type)		Delco-Rémy - 70 A - 24 V
Démarrreur (marque / type)		Delco-Rémy 39 MT HD - 400 Ampères - 24 V
Batterie (voltage / capacité)		2 x 12 V 200 Ah
Consommation de combustible		15 l / h
BOITE DE VITESSES		
Marque / type		Dana (Clark) / 15.5 HR 36432
Embrayage		Par convertisseur de couple - R = 1,78
Type de boîte		Automatic Powershift Control / APC 100
Nombre de vitesses AV / AR		4 / 4
Rapport de vitesses AV / AR		5,81 / 2,42 / 1,38 / 0,78
PONT AV		
Principe		Pont moteur double réduction avec freins à disque à bain d'huile
Rapport de réduction		23,40 ou 22,6
ESSIEU AR		
Principe		Essieu directeur oscillant
PNEUMATIQUES		
Dimensions		Tubeless 6 18.00 x 25 ou 18.00 x 33
Pression : (1 bar = 1kg/cm²)		10 bars
SYSTEME DE DIRECTION		
Principe		Hydrostatique avec 1 vérin à double effet sur essieu AR
FREINAGE		
Type		Freins multi disques à bain d'huile sur pont AV
Commande		Hydraulique
Frein de parc		Disque sur nez de pont, action par ressorts
HYDRAULIQUE		
Circuit principal		Système Load Sensing
Pompe principale		Double corps à pistons à débit variable 2 x 200 cc Débit 420 l/mn - Pression maximum 350 bars
Commandes		Un manipulateur hydraulique en croix pour relevage, télescopage, rotation et chariotage du palonnier
Pompes auxiliaires	Ventilo réfrigérant moteur et transmission	Pompe à débit variable de 28 cc - 58 l/mn
	Filtration et refroidissement circuit hydraulique	Pompe à débit variable de 40 cc - 84 l/mn
	Alimentation refroidissement freins	Pompe 12 cc - 25 l/mn
	Pilotage freins de service et de parc	Pompe 12 cc - 25 l/mn
CAPACITES		
Réservoir de carburant		520 l
Réservoir hydraulique		750 l
Système de refroidissement		70 l
Pont AV		94 l
Boîte de vitesses		56 l
Moteur		35 l
SECURITE		
Antibasculement		Coupure automatique des mouvements dangereux en cas de surcharge
Moteur		Mise en sécurité automatique en cas de détection défaut niveau ou pression d'huile, température circuit refroidissement ou air turbo

		TFC 45	TFC 45R	TFC 45RS	TFC 45L	TFC 45LS	TFC LSX
TRANSLATION							
Speed FWD / REW	no load	25 Km/h	25 Km/h	25 Km/h	25 Km/h	25 Km/h	25 Km/h
	with load 45 t	24 Km/h	23 Km/h	23 Km/h	23 Km/h	23 Km/h	23 Km/h
Max gradeability	no load	37 %	35 %	34 %	33 %	32 %	30%
	with load 45 t	21 %	20,5 %	20 %	20 %	19,5 %	18,5%
Towing ability		25,8 t	25,8 t	25,8 t	25,8 t	25,8 t	25,8 t
WEIGHT WITH TOP-PICK SPREADER							
No load	Front axle	35,55 t	35,4 t	35,72 t	34,3 t	35,65 t	38,5 t
	Rear axle	31,6 t	34,5 t	37,98 t	39,95 t	39,6 t	42,5 t
	Total	67,15 t	69,9 t	73,7 t	74,25 t	75,25 t	81 t
Full load* travelling * 45 t	Front axle	90,75 t	90,6 t	85,7 t	81,45 t	82,75 t	86 t
	Rear axle	21,4 t	24,3 t	33 t	37,8 t	37,5 t	40 t
	Total	112,15 t	114,9 t	118,7 t	119,25 t	120,25 t	126 t
Full load* static, 1 st row	Front axle	93,9 t	93,9 t	88,9 t	92,75 t	94,10 t	105,5 t
	Rear axle	18,25 t	21,1 t	29,8 t	26,5 t	26,15 t	20,5 t
	Total	112,15 t	114,9 t	118,7 t	119,25 t	120,25 t	126 t
BOOM							
Telescoping out	no load	28 sec.	28 sec.	28 sec.	28 sec.	28 sec.	25 sec.
		0,25 m/s	0,25 m/s	0,25 m/s	0,25 m/s	0,25 m/s	0,25 m/s
	full load 45 t	32 sec.	32 sec.	32 sec.	32 sec.	32 sec.	28 sec.
Telescoping in	no load	25 sec.	25 sec.	25 sec.	25 sec.	25 sec.	22 sec.
		0,28 m/s	0,28 m/s	0,28 m/s	0,28 m/s	0,28 m/s	0,28 m/s
	full load 45 t	20 sec.	20 sec.	20 sec.	20 sec.	20 sec.	18 sec.
Hoisting up from 0° to 60°	no load	22 sec.	22 sec.	22 sec.	22 sec.	22 sec.	22 sec.
	full load 45 t	25 sec.	25 sec.	25 sec.	25 sec.	25 sec.	25 sec.
Hoisting down from 60° to 0°	no load	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.
	full load 45 t	20 sec.	20 sec.	20 sec.	20 sec.	20 sec.	20 sec.
Time to stack a container (9'6") from 1 st height to 5 th height (simultaneous functions)	no load	50 sec.	50 sec.	50 sec.	50 sec.	50 sec.	50 sec.
		0,23 m/s	0,23 m/s	0,23 m/s	0,23 m/s	0,23 m/s	0,23 m/s
	en charge 30 t	56 sec.	56 sec.	56 sec.	56 sec.	56 sec.	56 sec.
Time to unstack a container (9'6") from 5 th height to 1 st height (simultaneous functions)	no load	35 sec.	35 sec.	35 sec.	35 sec.	35 sec.	35 sec.
		0,33 m/s	0,33 m/s	0,33 m/s	0,33 m/s	0,33 m/s	0,33 m/s
	en charge 30 t	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.	30 sec.
		0,38 m/s	0,38 m/s	0,38 m/s	0,38 m/s	0,38 m/s	0,38 m/s

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ENGINE		In accordance with EC stage 2 / EPA-2
Make		Cummins / QSM11
Cooling system		Water cooled
Fuel		Diesel
Type		4 stroke, inline 6 cylinder, turbocharged
Power	SAE J 1995 / ISO 3046 / DIN 6271	Max : 320 HP (239 kW) at 1800 rpm Rated : 290 HP (216 kW) at 2100 rpm
Max torque at 1400 rpm	ISO 3046 / DIN 6271	1481 Nm
Displacement		10,82 l
Alternator		Delco-Rémy - 70 A - 24 V
Starter		Delco-Rémy 39 MT HD - 400 Ampères - 24 V
Batteries		2 x 12 V - 200 Ah
Fuel consumption		15 l / h
TRANSMISSION		
Make		Dana (Clark) / 15.5 HR 36432
Clutch type		Torque converter - R = 1,78
Transmission type		Automatic Powershift Control / APC 100
Gears FWD / REV		4 / 4
Gear ratio FWD and REV		5,81 / 2,42 / 1,38 / 0,78
FRONT AXLE		
Type		Drive axle - Double reduction with wet disc brakes
Reduction		23,40 or 22,6
REAR AXLE		
Description		Heavy duty oscillating steer axle
TIRES		
Dimensions		Tubeless, 6 18.00 x 25 or 18.00 x 33
Pressure : (1 bar = 1kg/cm ²)		10 bars
STEERING		
Description		Hydrostatic rear steering with double acting cylinder
BRAKING		
Type		Wet disc brakes on front axle
Control		Hydraulic
Parking brake		Spring release disc parking brake
HYDRAULICS		
Main system		Power regulated Load Sensing
Main pump		Two section variable displacement - Piston pump 2 x 200 cc Flow 420 l/mn - Maximum pressure 350 bars
Controls		One hydraulic joystick. Boom hoist and telescoping Spreader rotation - Side shift
Auxiliary	Engine transmission cooler	Variable displacement pump 28 cc - 58 l/mn
	Hydraulic cooler	Variable displacement pump 40 cc - 84 l/mn
	Axle oil cooler	Pump 12 cc - 25 l/mn
	Braking system control	Pump 12 cc - 25 l/mn
CAPACITIES		
Fuel		520 l
Hydraulic oil		750 l
Cooling system		70 l
Drive axle		94 l
Transmission		56 l
Engine		35 l
OPERATOR AID		
Anti-tipping device		Automatic cut-off system in case of overload
Engine		Protection device (reducing engine revolutions and power output) on set parameters for : oil temperature, coolant temperature, turbo inlet air temperature and maximum engine revolutions.

Built rugged, built smart

Superstacker is always ready to handle the most demanding challenges. Customers around the world know that PPM Terex Cranes offers more than just a rugged, reliable machine...

We offer over 20 years of experience in reachstacker development. Each Superstacker component is designed to exacting standards, then thoroughly tested. Step into the cab of a Superstacker and you're surrounded by reliability.

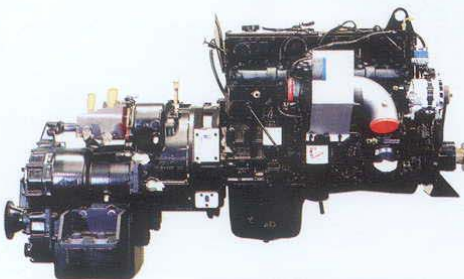


Clear instrumentation

A quick scan of the instrument panel clearly reveals vital information at a glance.

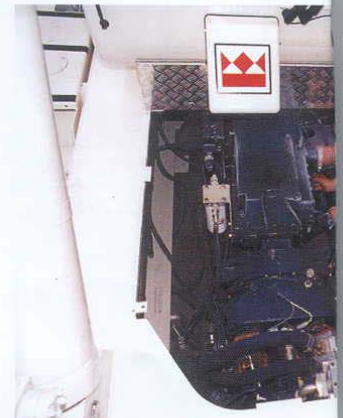
Locking

Modular twistlocks are easily activated and are designed to enhance operation. Locks are located entirely within the main frame, protected from shocks and weather. Floating twistlocks also accommodate SEALAND containers.



Low emission drive

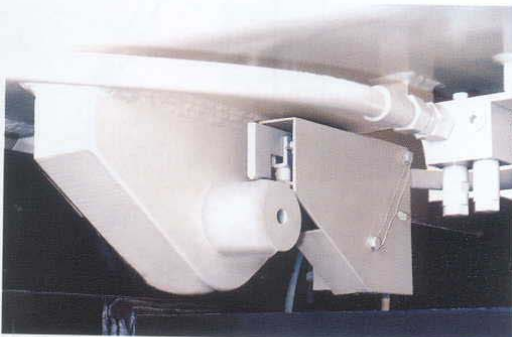
A 320 HP "Tier 2" Engine delivers power economically. Combined with maximum torque at low rpm (1481 Nm@1400 rpm), fuel consumption is optimised. Superstacker features a protection device on the engine.





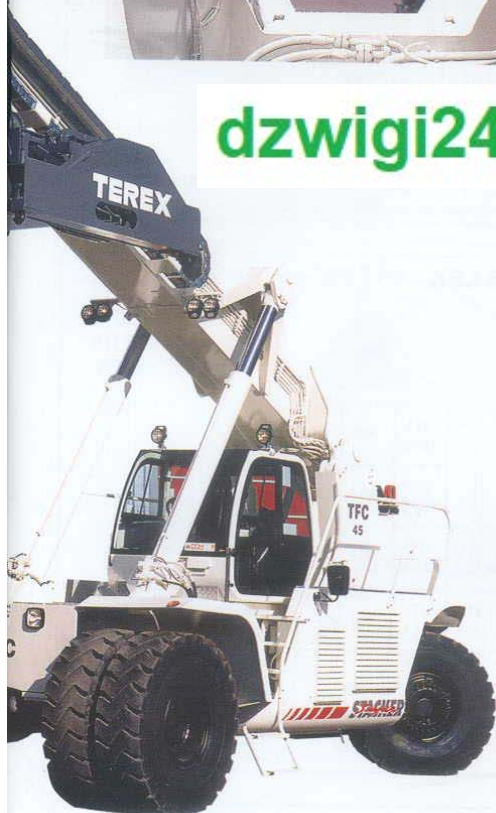
Improved rearward visibility

To ensure unobstructed operator vision and maximum safety, Superstacker features an optimised shape counterweight.



Anti-tipping system

Should load exceed nominal capacity, the anti-tipping system shuts down all lifting functions.



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Oscillating rear axle

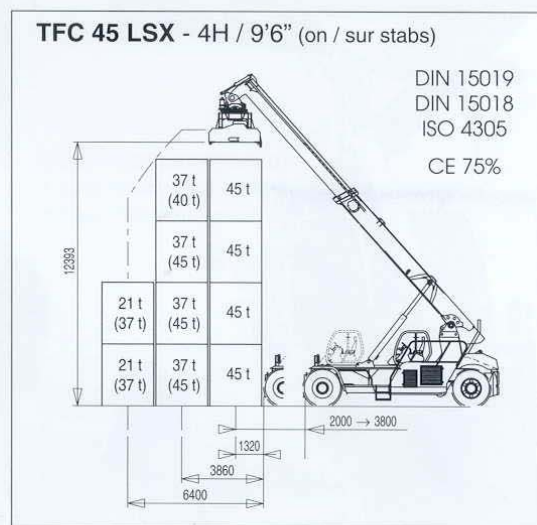
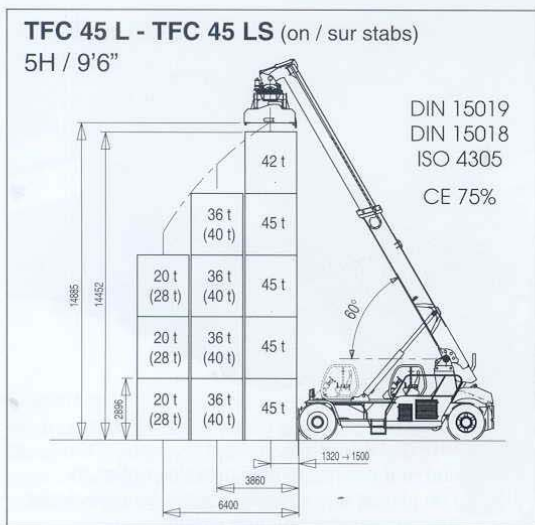
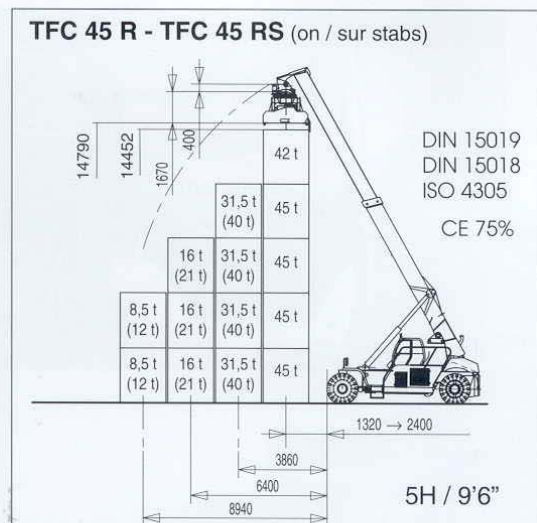
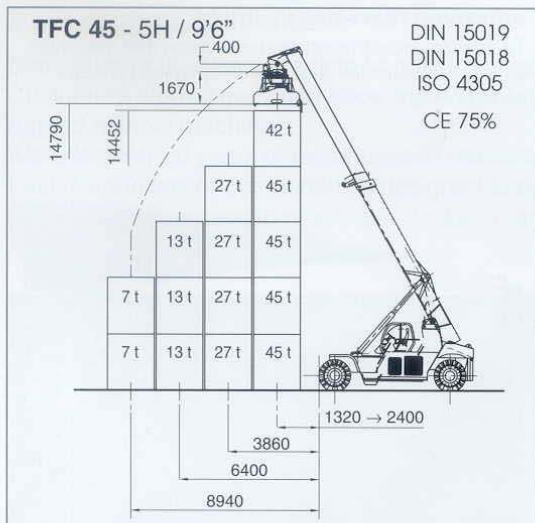
Extra wide rear oscillating axle provides optimum stability on almost any surface. Double acting cylinder gives Superstacker tight turning radius.



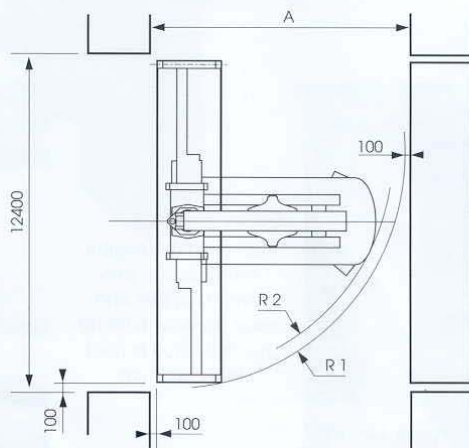
Easy service

Access to the engine, transmission and coolers is fast and easy, so downtime for maintenance is held to a minimum.





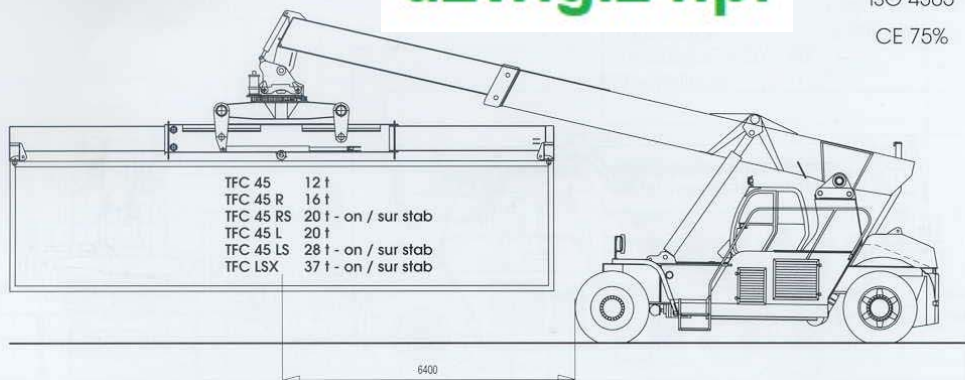
	40'		20'	
	A	R1	A	R2
TFC 45				
TFC 45 R	12830	10418	10205	8785
TFC 45 RS				
TFC 45 L				
TFC 45 LS	12964	11196	11445	10100
TFC LSX	13837	11311	12365	10100



40' - END-ON CAPACITY

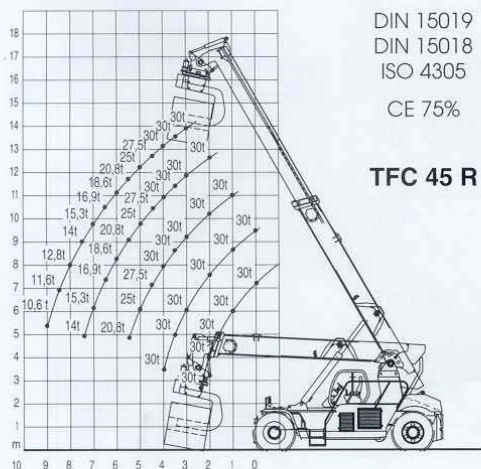
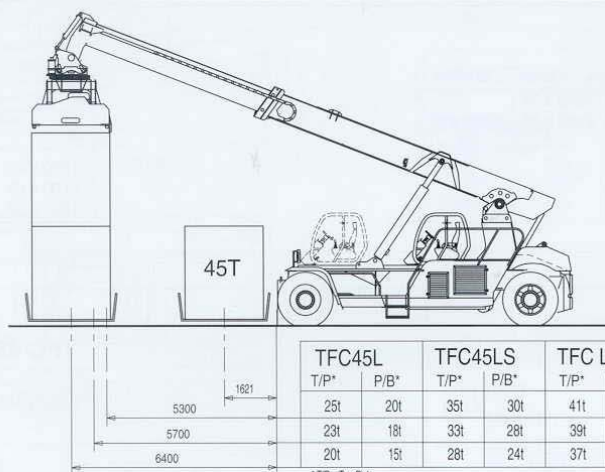
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DIN 15019
DIN 15018
ISO 4305
CE 75%



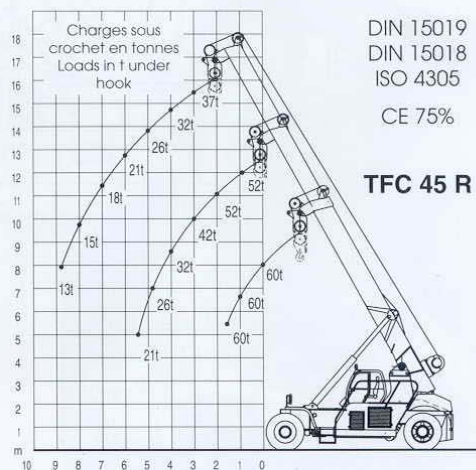
CHARGES LIFTING CAPACITIES

DIN 15019
DIN 15018
ISO 4305
CE 75%



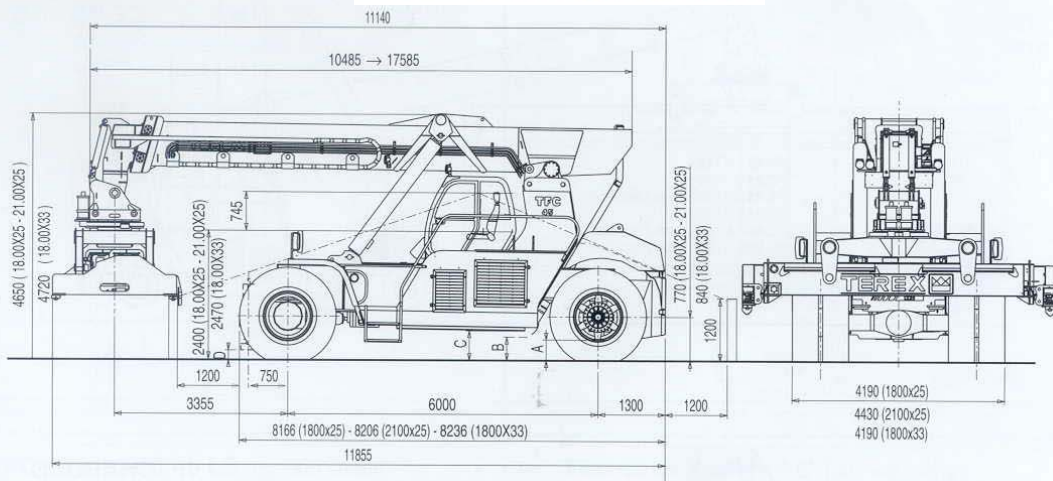
DIN 15019
DIN 15018
ISO 4305
CE 75%

TFC 45 R



DIN 15019
DIN 15018
ISO 4305
CE 75%

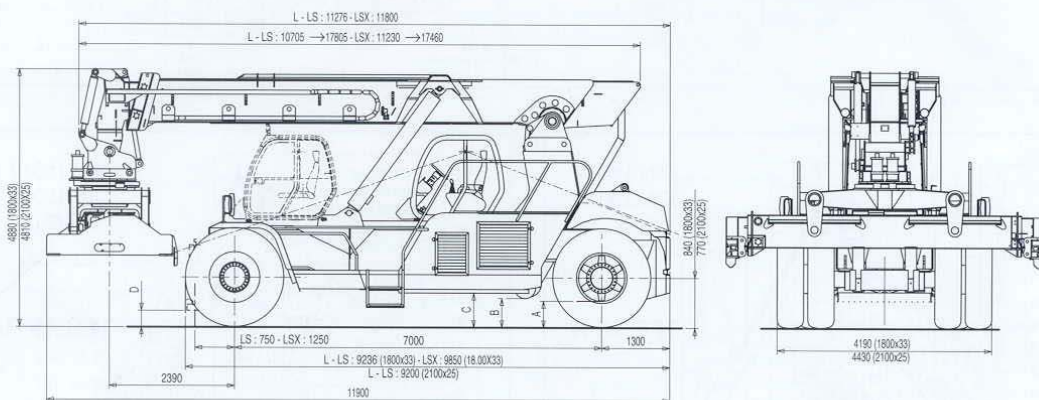
TFC 45 R



GARDE AU SOL - GROUND CLEARANCE		
	1800 x 25	2100 x 25
A	320	390
B	400	470
C	500	570
D (RS)	315	385

VOIES - TRACKS		
	AV / F	AR / R
1800 x 25	3033	2770
2100 x 25	3167	2870
1800 x 33	3033	2770

TFC 45 L - LS - LSX

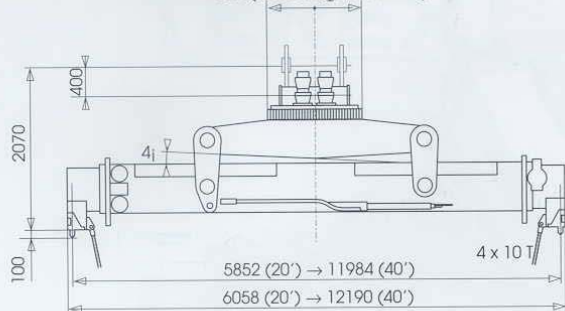


GARDE AU SOL - GROUND CLEARANCE		
	2100 x 25	1800 x 33
A	320	390
B	400	470
C	500	570
D (LS - LSX)	315	385

VOIES - TRACKS		
	AV / F	AR / R
2100 x 25	3167	2870
1800 x 33	3033	2770

PALONNIER STANDARD TOP PICK SPREADER

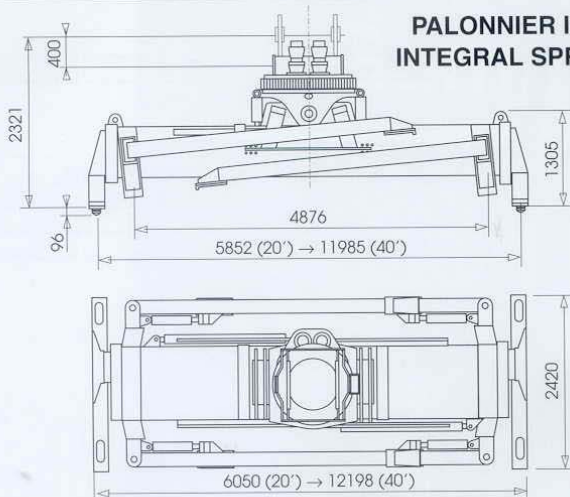
- 800 (chariotage/side shift)



Poids	8,5 t	-
Tilt	± 4°	-
Orientation	+ 95°/-185°	31 s/60 s
Chariotage	± 800 mm	11 s
Télescopage 20' - 40'		12 s
Verrouillage		1 s

Weight	8,5 t	-
Tilting angle	± 4°	-
Slewing	+ 95°/-185°	31 s/60 s
Hydraulic side shift	± 800 mm	11 s
Télescoping 20' - 40'		12 s
Locking		1 s

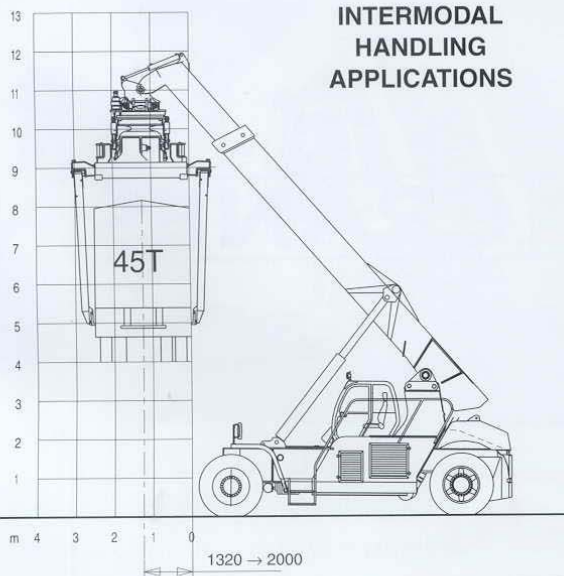
PALONNIER INTERMODAL AVEC TILT INTÉGRÉ INTEGRAL SPREADER WITH PILE POWER SLOPE



Poids	13,4 t	-
Tilt	± 5°	-
Orientation	± 95°/-185°	31 s/60 s
Chariotage	± 800 mm	11 s
Télescopage 20' - 40'	-	25/30 s
Dépliage (2)	-	11 s
Repliage (2)	-	8 s

Weight	13,4 t	-
Tilting angle	± 5°	-
Slewing	± 95°/-185°	31 s/60 s
Hydraulic side shift	± 800 mm	11 s
Telescoping 20' - 40'	-	25/30 s
Lowering (2)	-	11 s
Folding (2)	-	8 s

INTERMODAL HANDLING APPLICATIONS



OPTIONS

- Palonnier top/pick avec piggy back intégré
- Contrôleur d'état de charge
- Contrôleur d'état de charge avec imprimante
- Tilt $\pm 5^\circ$ sur palonnier piloté depuis la cabine
- Crochet fixe capacité 60 t
- Treuil avec moufle 12 brins capacité 60 t
- Pneus 21.00 x 25 pour faible pression au sol
- Pneus 18.00 x 33
- Cabine coulissante

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OPTIONS

- Intermodal spreader
- Load moment indicator
- Load moment indicator with printer
- Pile Slope $\pm 5^\circ$ tilt, side to side
- Fixed hook 60 t
- Winch with 60 t - 12 parts of line hook block
- Tires 2100 x 25 for low ground pressure
- Tires 1800 x 33
- Hydraulic sliding cab

TEREX  **CRANES**

Agent

PPM S.A.S.

Z.I. La Saule - B.P. 106

71304 Montceau-les-Mines Cedex - FRANCE

Tél. (33) 03 85 67 38 58 - Fax (33) 03 85 67 39 35

e-mail : intsales@ppmterex.com