

autovictor



Keep on moving to the future.

DATASHEET TEREX RC 45

RC45




44 t

Crane performance data	
Capacity at 2.5 m from slewing axis (CE)	44 t
Boom length (retracted/extended)	9.5 / 37.4 m
Altezza testa braccio	39.5 m

Truck performance data ⁽¹⁾	
Max. travelling speed (on 16.00R25 tyres)	34 km/h
Max. travelling speed (on 20.5R25 tyres)	34 km/h
Max. theoretical ramp during operation (on 16.00R25 tyres)	84 %
Max. theoretical ramp during operation (on 20.5R25 tyres)	87 %

⁽¹⁾Standard crane in operating conditions: no auxiliary winch and no extensions

Weights ⁽²⁾		
1 st axle	2 nd axle	Total
12.0 t	15.8 t	27.8 t

⁽²⁾Standard crane: no auxiliary winch and no extensions, on 16.00R25 tyres

Operating speed / Times ⁽³⁾	
Main winch (max. speed under direct pull at first layer)	67 m/min
Auxiliary winch (max. speed under direct pull at first layer)	80 m/min
Telescopic boom lifting / lowering	83/83 s
Telescopic boom extension / retraction (9.5 m to 37.4 m)	200/212 s
Upper structure slewing	30 s
Extension of single outrigger beam	20 s
Extension of single outrigger	25 s

⁽³⁾Average reference indicative values measured at 2000 rpm of engine

Truck	
Traction/Steering	4x4x4
Frame	With twin body side member. Front tow point (back tow point on request)
Outriggers	no. 4 independent hydraulic outriggers onto hydraulic beams. Outrigger beams can be fully retracted, partially or fully extended. Outrigger controls in the operating cab.
Engine	CUMMINS B5.9: no. 6 in-line cylinders - displacement: 5.88 cu dm - water cooling with intercooler - turbo supercharger. Max. power 113 kW at 2500 rpm - Max. torque 614 Nm at 1500 rpm. 97/68/CE Step 2 approved.
Tank	240 l
Transmission	DANA series 20000: Powershift-type transmission with torque converter. 3 + 3 forward speeds and 3 + 3 reverse speed: slow and fast speed mode. Automatic engagement of 4WD after selecting slow speed mode
Brakes	Operating brakes: double-circuit hydro-pneumatic drum brakes on all wheels. Parking / Emergency brake: negative action onto front transmission shaft. Pneumatic spring brake.
Axles	no. 2 driving / steering axles equipped with planetary gearboxes into hubs. On request, differential locks
Suspension	Stiff suspension for front axle, swinging suspension for rear axle. Rear suspension is automatically locked by hydraulic jacks if lifting boom is not aligned with centreline within front crane area
Steering	Hydrostatic steering controlled by steering wheel into the operating cab. Steering of front axle alone or both axles in concentric or crab mode.
Tyres	no. 4 16.00R25 tubeless tyres On request, no. 4 20.5R25 tubeless tyres

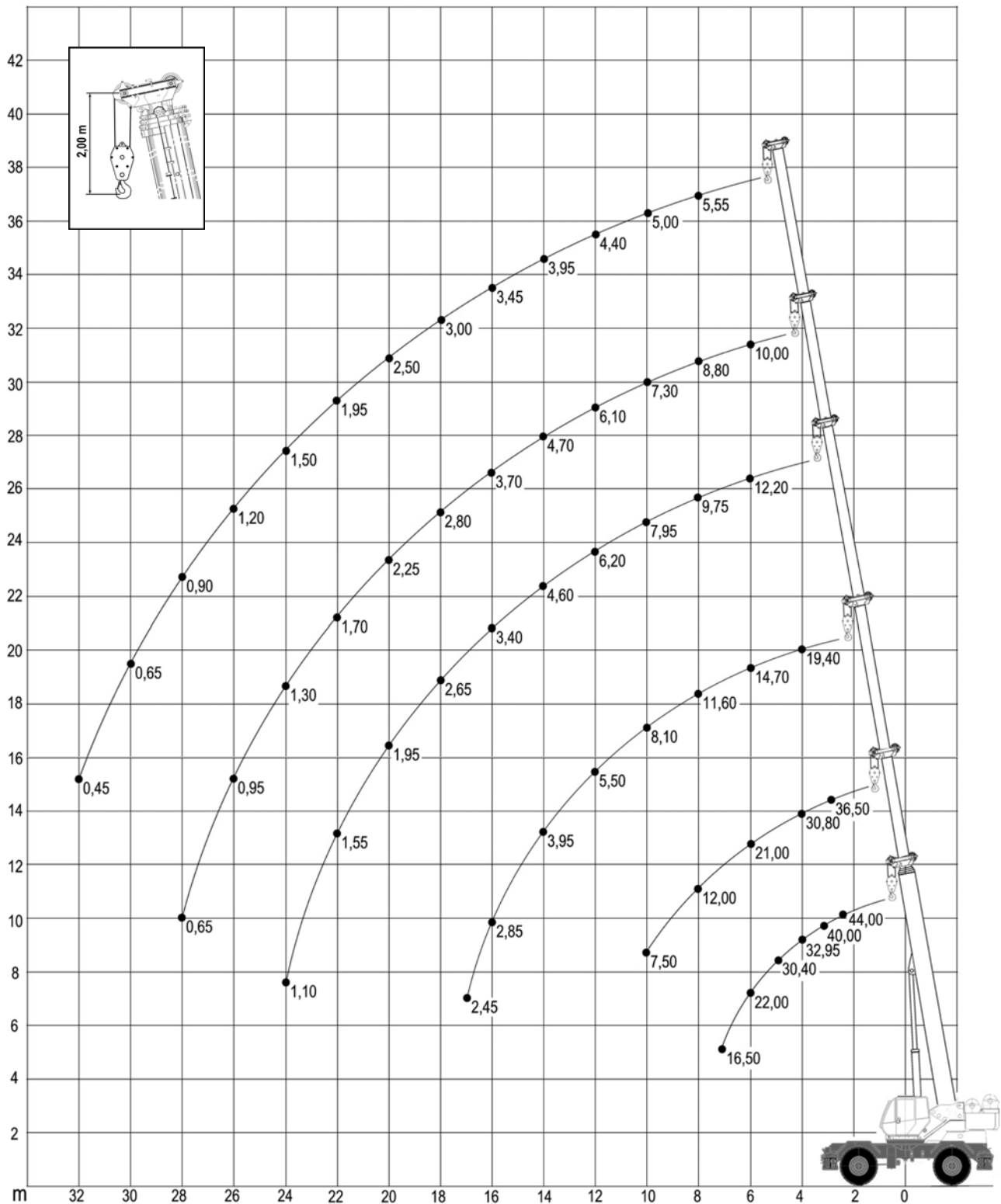
Upper structure	
Boom	no. 5 elements
Lifting	no. 1 double action hydraulic jack. Boom inclination: -2° to +78°
Extension	Element 2 slides out regardless of the other parts; elements 3, 4 and 5 slide out in a proportional and continuous way. Extension cylinder with two independent strokes, chain and rope drive system.
Winch	Controlled by fixed displacement hydraulic motor equipped with axial pistons and planetary gearbox. Automatic negative brake for winch. Cable tensioner. Two different rotation speeds. Rope diameter 16 mm, length 185 m. (max. lifting capacity 4500 daN). On request, auxiliary winch (max. lifting capacity 3800 daN), rope diameter 15 mm length 150 m
Slewing	360° non-stop rotation controlled by hydraulic motor equipped with planetary gearbox on slewing ring having double ball ring and inner toothing. Automatic negative brake. Brake release for direct alignment of boom along load vertical line.
Operating cab	Sliding door. Wide visibility. Equipped with heating system. Front and upper window with windscreen wiper. Upper and back windows can be opened. Fully adjustable seat onto shockproof suspensions. Equipped with tiltable arm rests with integrated hand controls for crane operation
Safety	Load limiting device with indicator.

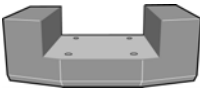
Systems	
Hydraulic system	Feeding: no. 2 double gear pumps. Movement control: distributors controlled by hydraulic hand controls. More proportional operations can be carried out at the same time. Outtrigger control: solenoid valves controlled by separate buttons. Filtering: no. 1 cartridge filter in return circuit Heat exchanger for oil cooling-down
Electric system	24 V, 70 A generator and no.2 132 Ah batteries Lighting devices in compliance with current EU directives.
Pneumatic system	247 cu cm compressor, no.2 45l reservoirs and drier Auxiliary air intake and tyre inflating kit

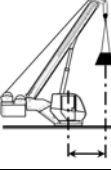
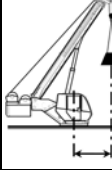
OPTIONS

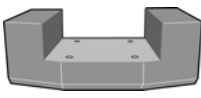
25 t hook block
10 t hook block
Extension 8 m, offsettable at 0°, 20°, 40°
Air conditioning / heating system into operating cab
Spare wheel
Operating kit for temperatures up to -20°C
Operating kit for temperatures up to +45°C

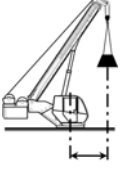
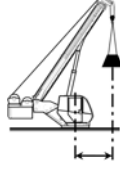
Capacità di sollevamento, altezze e raggio
Lifting capacities, heights and radium
Charges, hauteurs et portées
Traglasten / Hubhöhen



				
5.8 m	9.5m ÷ 37.4m	5.5 t	360°	

	t2 = 0% t3 = 0% t4 = 0% t5 = 0%	t2 = 50% t3 = 0% t4 = 0% t5 = 0%	t2 = 100% t3 = 0% t4 = 0% t5 = 0%	t2 = 100% t3 = 16% t4 = 16% t5 = 16%	t2 = 100% t3 = 33% t4 = 33% t5 = 33%	t2 = 100% t3 = 49% t4 = 49% t5 = 49%	t2 = 100% t3 = 67% t4 = 67% t5 = 67%	t2 = 100% t3 = 84% t4 = 84% t5 = 84%	t2 = 100% t3 = 100% t4 = 100% t5 = 100%	
	9.5 m	13.0 m	16.5 m	19.8 m	23.5 m	26.8 m	30.5 m	34.1 m	37.4 m	
										
	44.00	36.50	25.95	22.80	18.90	14.45	10.00	7.45	5.55	
2.5	44.00									2.5
3.0	40.00	36.50	25.95	22.80						3.0
3.5	35.70	33.30	23.70	21.00	18.90					3.5
4.0	32.95	30.80	22.00	19.40	17.55					4.0
4.5	30.40	28.70	20.45	17.95	16.25	14.45				4.5
5.0	28.50	26.70	19.00	16.75	15.15	13.85				5.0
6.0	22.00	21.00	16.70	14.70	13.30	12.20	10.00			6.0
7.0	16.50	16.00	14.90	13.00	11.80	10.90	9.65	7.45		7.0
8.0		12.00	12.00	11.60	10.55	9.75	8.80	7.45	5.55	8.0
9.0		9.70	9.40	9.70	9.55	8.75	8.00	7.05	5.35	9.0
10.0		7.50	7.40	8.10	8.60	7.95	7.30	6.70	5.00	10.0
11.0			6.00	6.50	7.10	6.70	6.65	6.15	4.65	11.0
12.0			5.00	5.50	5.85	6.20	6.10	5.75	4.40	12.0
13.0			4.25	4.60	5.00	5.20	5.55	5.30	4.15	13.0
14.0			3.45	3.95	4.40	4.60	4.70	4.95	3.95	14.0
15.0				3.25	3.70	4.00	4.20	4.40	3.70	15.0
16.0				2.85	3.25	3.40	3.70	3.75	3.45	16.0
17.0				2.45	2.85	3.00	3.30	3.35	3.20	17.0
18.0					2.50	2.65	2.80	2.90	3.00	18.0
19.0					2.05	2.25	2.50	2.60	2.70	19.0
20.0					1.85	1.95	2.25	2.35	2.50	20.0
21.0					1.55	1.80	1.90	2.10	2.15	21.0
22.0						1.55	1.70	1.80	1.95	22.0
23.0						1.35	1.50	1.60	1.75	23.0
24.0						1.10	1.30	1.40	1.50	24.0
25.0							1.10	1.25	1.35	25.0
26.0							0.95	1.10	1.20	26.0
27.0							0.80	0.95	1.00	27.0
28.0							0.65	0.80	0.90	28.0
29.0								0.70	0.80	29.0
30.0								0.55	0.65	30.0
31.0								0.45	0.55	31.0
32.0									0.45	32.0
	13.00	6.00	3.00	2.00	1.40	0.95	0.60	0.40	0.45	

				
5.8 m	34.1m ÷ 37.4m	5.5 t	360°	8.0m

	t2 = 100% t3 = 84% t4 = 84% t5 = 84%	t2 = 100% t3 = 84% t4 = 84% t5 = 84%	t2 = 100% t3 = 84% t4 = 84% t5 = 84%	t2 = 100% t3 = 100% t4 = 100% t5 = 100%	t2 = 100% t3 = 100% t4 = 100% t5 = 100%	t2 = 100% t3 = 100% t4 = 100% t5 = 100%	
	34.1m + 8.0m 0° 	34.1m + 8.0m 20° 	34.1m + 8.0m 40° 	37.4m + 8.0m 0° 	37.4m + 8.0m 20° 	37.4m + 8.0m 40° 	
	3.20	1.90	1.40	2.80	1.80	1.35	
	8.0						
9.0	3.20						9.0
10.0	3.00			2.80			10.0
11.0	2.90	1.90		2.70			11.0
12.0	2.70	1.80		2.70	1.80		12.0
13.0	2.60	1.75	1.40	2.60	1.75		13.0
14.0	2.45	1.70	1.35	2.50	1.70	1.35	14.0
15.0	2.35	1.65	1.35	2.35	1.65	1.35	15.0
16.0	2.25	1.60	1.30	2.25	1.60	1.30	16.0
17.0	2.15	1.55	1.30	2.15	1.60	1.30	17.0
18.0	2.10	1.55	1.25	2.05	1.55	1.25	18.0
19.0	2.00	1.50	1.25	1.95	1.50	1.25	19.0
20.0	1.95	1.45	1.25	1.85	1.50	1.25	20.0
21.0	1.85	1.45	1.25	1.80	1.45	1.25	21.0
22.0	1.80	1.40	1.20	1.75	1.40	1.20	22.0
23.0	1.75	1.40	1.20	1.65	1.40	1.20	23.0
24.0	1.70	1.35	1.20	1.60	1.40	1.20	24.0
25.0	1.60	1.35	1.20	1.50	1.35	1.20	25.0
26.0	1.45	1.30	1.20	1.45	1.30	1.20	26.0
27.0	1.30	1.30	1.20	1.30	1.30	1.20	27.0
28.0	1.15	1.25	1.20	1.20	1.25	1.20	28.0
29.0	1.05	1.15	1.20	1.05	1.20	1.15	29.0
30.0	0.95	1.05	1.10	0.95	1.05	1.15	30.0
31.0	0.85	0.95	0.95	0.85	0.95	1.00	31.0
32.0	0.75	0.85	0.85	0.75	0.85	0.90	32.0
33.0	0.65	0.75	0.75	0.70	0.75	0.80	33.0
34.0	0.60	0.65	0.65	0.60	0.70	0.70	34.0
35.0	0.50	0.55	0.55	0.55	0.60	0.60	35.0
36.0					0.50	0.55	36.0
37.0							37.0
 min							 min



16.0025/20.5R25




0 km/h0°

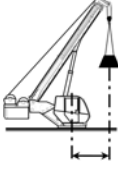
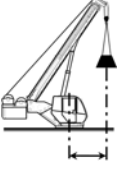



0 km/h360°




2 km/h0°



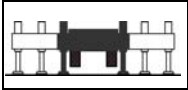
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	9.5 m	13.0 m	16.5 m	9.5 m	13.0 m	9.5 m	13.0 m	16.5 m	
									
	16.00	15.00	15.50	9.00	8.80	12.00	11.00	11.45	
2.5	16.00			9.00		12.00			2.5
3.0	14.00	15.00	15.50	8.00	8.80	10.15	11.00	11.45	3.0
3.5	12.00	13.00	13.20	6.75	7.50	9.05	9.75	10.20	3.5
4.0	10.15	11.00	11.45	5.80	6.45	8.10	8.75	9.15	4.0
4.5	9.05	9.75	10.20	5.00	5.65	7.30	7.90	8.25	4.5
5.0	8.10	8.75	9.15	4.35	4.95	6.60	7.20	7.50	5.0
6.0	7.30	7.90	8.25	3.35	3.85	5.50	6.00	6.30	6.0
7.0	6.60	7.20	7.50	2.60	3.05	4.60	5.10	5.35	7.0
8.0		6.00	6.30		2.45		4.30	4.60	8.0
9.0		5.10	5.35		1.95		3.50	3.75	9.0
10.0		4.30	4.60		1.55		2.90	3.15	10.0
11.0			3.75					2.60	11.0
12.0			3.15					2.15	12.0
13.0			2.60					1.85	13.0
14.0			2.15					1.50	14.0
15.0									15.0
 min	5.50	3.50	1.85	2.25	1.00	4.20	2.20	1.20	 min



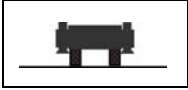
Outriggers fully extended
Stabilisateurs en extension totale
Stabilizzatori completamente estesi
Voll ausgefahrne Abstützungen



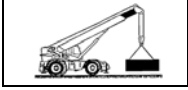
Outriggers half-extended
Stabilisateurs en extension partielle
Stabilizzatori parzialmente estesi
Teilweise ausgefahrne



Outriggers unextended
Stabilisateurs fermés
Stabilizzatori chiusi
Eingefahrne Abstützungen



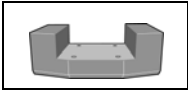
Load capacity on wheels
Charges sur pneus
Portate su pneumatici
Tragfähigkeit auf Reifen



Traveling speed
Vitesse de translation
Velocità traslazione
Bewegungsgeschwindigkeit



Telescopic boom
Flèche télescopique
Braccio telescopico
Teleskoparm



Counterweight
Contrepoids
Contrappeso
Gegengewicht



Upperstructure angle rotation
Angle rotation structure du dessus
Angolo rotazione sovrastruttura
Drehwinkel des Strukturaufbaus



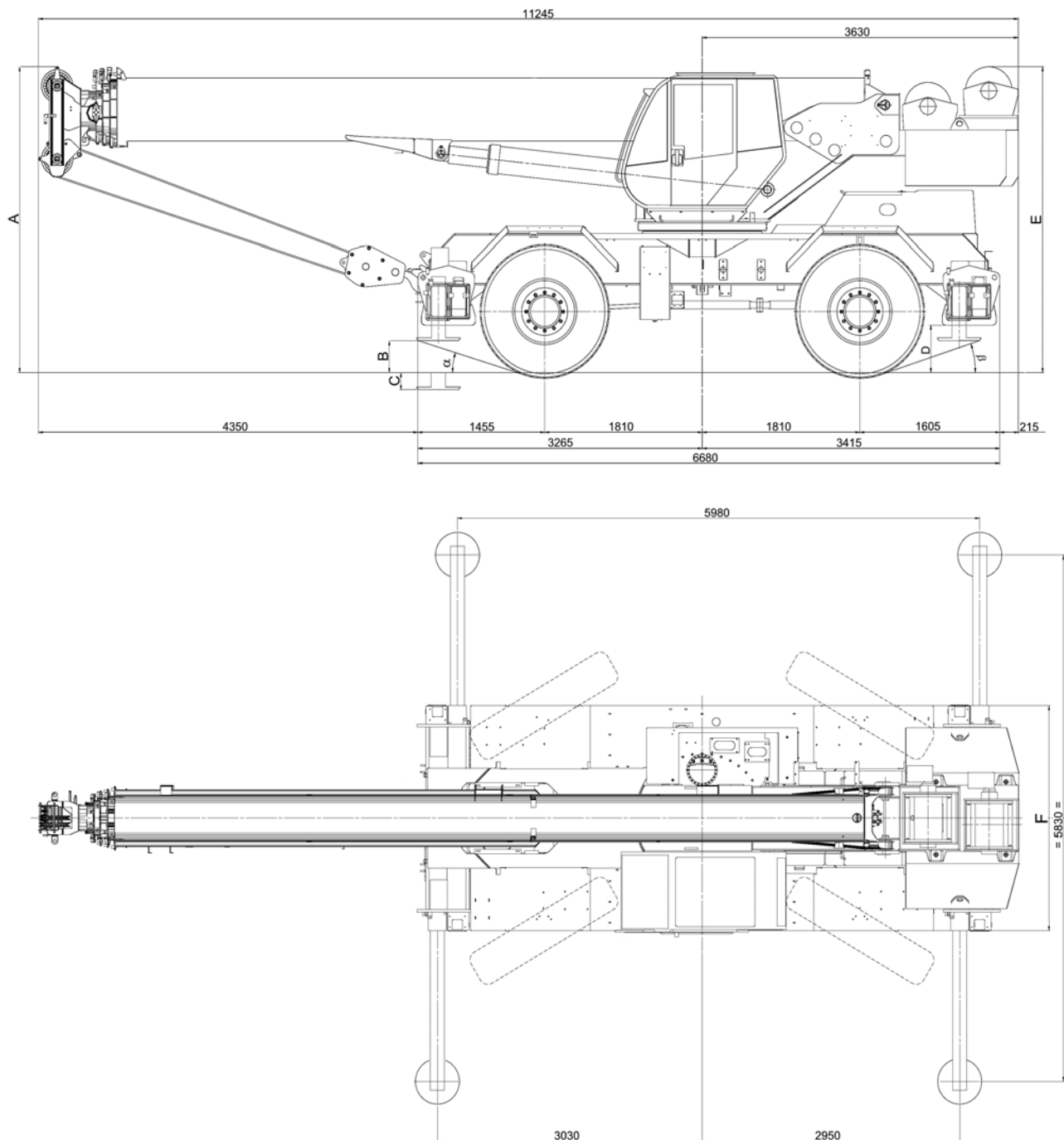
Upperstructure rotation lock
Blocage rotation structure du dessus
Rotazione sovrastruttura bloccata
Bolzen des Strukturaufbaus



Extension / Jib
Extension / Jib
Prolunga / Jib
Verlängerung / Jib

Taglie di sollevamento / Hoist reeving / Mouflage / Hubrollen										
N° di taglie / No. of line Nbr. de brins / Seilanzahl	1	2	3	4	5	6	7	8	9	10
Aregano principale / Main winch / Treuil principal / Hauptwinde										
Carico massimo in kN / Max line pull in kN Charges maxi en kN / Höchstlast in kN	45	90	135	180	225	270	315	360	405	450
Aregano ausiliario / Auxiliary winch / Treuil auxiliaire / Zusatzwinde										
Carico massimo in kN / Max line pull in kN Charges maxi en kN / Höchstlast in kN	38	76	114	152	190	228	266	304	342	380

Note	Notes	Notes	Hinweise
I carichi indicati costituiscono i valori massimi coperti dalla garanzia del costruttore per utilizzo rispettivamente secondo le norme della Unione Europea (CE). Sono espressi in tonnellate metriche ed includono il peso del bozzello, delle eventuali prolunghe applicate al braccio e di tutti gli accessori di sollevamento (brache, ecc.) Le operazioni di sollevamento nella configurazione su gomme devono essere effettuate su superficie piana e solida con la corretta pressione di gonfiaggio degli pneumatici e con l'oscillazione dell'assale posteriore bloccata qualora l'operazione non avvenga con braccio entro un settore di +/- 3° rispetto all'asse di mezzeria della autogrù. Le operazioni di traslazione con carico possono avvenire esclusivamente con braccio allineato all'asse di mezzeria della autogrù, perno di bloccaggio meccanico della rotazione della sovrastruttura inserito e avendo cura di mantenere il carico stesso in prossimità della autogrù senza oscillazioni.	The indicated loads are the maximum covered by the manufacturer's warranty for a use which complies with current EU directives (CE). Weights are given in metric tons. They include the weight of the block, all extensions fitted to the boom and all lifting accessories (slings and so on). Crane on wheels: operate the crane on a steady flat surface when hoisting loads and inflate tyres at proper pressure value. Also stop rear axle swinging if the load cannot be lifted having the arm within a +/-3° sector to the crane centreline. The load can be travelled only if the boom is aligned with the crane centreline, the shaft for upper structure rotation stop is fitted and the load is kept close to the crane and is not swinging.	Les charges indiquées constituent les valeurs maximales couvertes par la garantie du fabricant pour une utilisation conforme aux normes de l'Union Européenne. Elles sont exprimées en tonnes métriques et comprennent le poids de la moufle, des éventuelles extensions appliquées à la flèche et de tous les accessoires de levage (élingues, etc.). Les opérations de levage dans la configuration sur pneus doivent être effectuées sur une surface plane et solide avec une pression de gonflage des pneus correcte et l'oscillation de l'essieu arrière bloquée si l'opération n'a pas lieu avec la flèche située dans une zone de +/- 3° par rapport à l'axe de moitié du camion-grue. Les opérations de translation avec charge ne peuvent être effectuées qu'avec flèche alignée dans l'axe de moitié du camion-grue, goujon de blocage mécanique de la rotation de la structure du dessus enclenché et en prenant soin de maintenir la charge à proximité du camion-grue sans oscillations.	Die angegebenen Lasten sind die Grenzwerte, für welche die Herstellergarantie bei Einsatz gemäß den Normen der Europäischen Union (EU). Die Grenzwerte sind in Metertonnen ausgedrückt, das Gewicht des Blocks, eventueller am Ausleger angebrachter Verlängerungen und jeglicher Hebezubehörteile (Schlingen usw.) ist inbegriffen. Hebearbeiten mit bereiftem Kran müssen auf einer ebenen und festen Oberfläche erfolgen; die Reifen müssen richtig befüllt und die Hinterachse festgestellt sein, wenn der Ausleger außerhalb eines Bereichs von +/- 3° im Verhältnis zur Mittelachse des fahrbaren Krans gehoben wird. Transportarbeiten mit belastetem Ausleger sind ausschließlich erlaubt, wenn der Ausleger an der Mittelachse des Krans angereicht ist, der mechanische Verriegelungszapfen, der die Drehung des Oberwagens vermeidet, eingerastet ist und die Last ohne zu schwingen in Nähe des Krans behalten wird.



Dimensioni / Dimensions / Dimensions / Abmessungen⁽⁴⁾

Pneumatici / Tyres Pneumatiques / Reifen	A	E	C	B	D	F	α	β
16.00R25	3323	3390	190	360	410	2550	21°	20°
20.5R25	3318	3385	195	355	405	2670	21°	20°

⁽⁴⁾ Dimensioni medie di riferimento fornite a puro titolo indicativo. Valori espressi in millimetri
⁽⁴⁾ Average reference values, which are indicative only. Values are expressed in mm
⁽⁴⁾ Dimensions moyennes de référence fournies à titre purement indicatif. Valeurs exprimées en millimètres
⁽⁴⁾ Durchschnittsmaße; dienen ausschließlich als Richtwerte. Die Werte sind in Millimetern ausgedrückt

Note	Notes	Notes	Hinweise
Tutte le caratteristiche e le specifiche descritte possono essere soggette a variazioni senza preavviso. Tutti i dati riportati sono forniti a puro titolo informativo e non costituiscono una garanzia dal momento che le prestazioni della macchina variano in funzione dell'utilizzo. La sola garanzia applicabile è quella fornita da TEREX Italia per i propri prodotti	All specifications and features herein described can be changed without prior advice. All indicated data are indicative only and are not binding as crane performs differently depending on its use. Only the warranty terms granted by TEREX Italia for their products can be applied.	Toutes les caractéristiques et spécifications décrites peuvent être sujettes à variations sans préavis. Toutes les données indiquées sont fournies à titre purement indicatif et n'engage pas la responsabilité du fabricant dans la mesure où les performances de la machine varient en fonction de l'utilisation. La seule garantie applicable est celle fournie par TEREX Italia pour ses propres produits.	Unangekündigte Änderungen sämtlicher Eigenschaften und Daten sind möglich. Alle Angaben sind Richtwerte und nicht verbindlich, da die Leistungen der Vorrichtung von deren Einsatz abhängen. Die einzige gültige Garantie ist jene der Firma TEREX Italia für die von dieser hergestellten Produkte.

autovictor



Keep on moving to the future.

DATASHEET TEREX RC 45

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