

44 t
RC45





SPECIFICATIONS

CRANE PERFORMANCE DATA

Capacity at 2.5 m from slewing axis (CE)	44 t
Boom length (retracted/extended)	9.5 / 37.4 m
Boom head height	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
11.5 t	16.1 t	27.6 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 QSB6.7: no. 6 in-line cylinders - displacement 6.70 cu dm - water cooling with intercooler - turbo supercharger - Common rail. Max. power 119 kW at 2200 rpm - Max. torque 732 Nm at 1400 rpm. 2004/26/CE Step IIIA approved.
Tank	300 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 $+78^{\circ}$
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. Extension under partial load possible.
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	Stop valves onto extension / lifting boom jacks and outriggers. Max. pressure valves for each hydraulic circuit. Balancing braking valve for the slewing unit. Balancing braking valve for the winch. Limit switch onto boom head for hoisting block lift. Limit switch for having three winding turns around the winch. Load limiting device with indicator for: <ul style="list-style-type: none">Boom inclinationBoom lengthLoad weightMax. load which can be lifted Telescopic boom movement limit can be set.

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. Outrigger 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

MAIN OPTIONS

- Extension 8 m, offsettable at 0° , 20° , 40°
- Air conditioning / heating system into operating cab
- Operating kit for temperatures up to -20°C
- Operating kit for temperatures up to $+45^{\circ}\text{C}$
- Auxiliary winch
- 10 t hook block
- 5 t hook

Refer to your local dealer for a complete list of available options.

DIAGRAMMA DI LAVORO / WORKING RANGES / DIAGRAMME DE TRAVAIL / ARBEITSBEREICHE

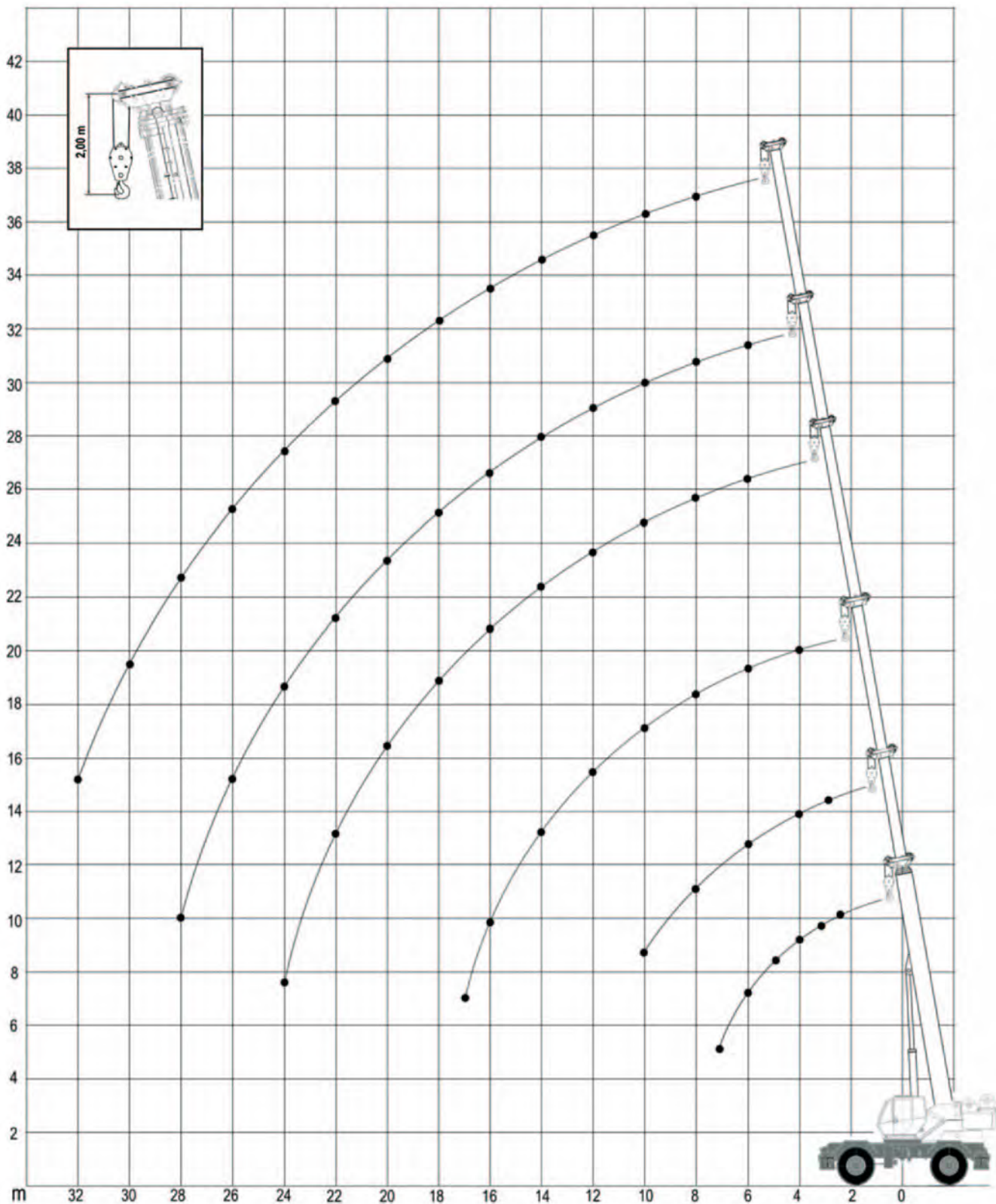












TABELLE / CHART / TABLEAU / TABELLE

5.8 m	9.5m ÷ 37.4m	5.5 t	360°	

	t2 = 0%	t2 = 50%	t2 = 100%	t2 = 100%	t2 = 100%	t2 = 100%	t2 = 100%	t2 = 100%	t2 = 100%	
	t3 = 0%	t3 = 0%	t3 = 0%	t3 = 16%	t3 = 33%	t3 = 49%	t3 = 67%	t3 = 84%	t3 = 100%	
	t4 = 0%	t4 = 0%	t4 = 0%	t4 = 16%	t4 = 33%	t4 = 49%	t4 = 67%	t4 = 84%	t4 = 100%	
	t5 = 0%	t5 = 0%	t5 = 0%	t5 = 16%	t5 = 33%	t5 = 49%	t5 = 67%	t5 = 84%	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

				
Outriggers fully extended Stabilisateurs en extension totale Stabilizzatori completamente estesi Voll ausgefahrene Abstützungen	Outriggers half-extended Stabilisateurs en extension partielle Stabilizzatori parzialmente estesi Teilweise ausgefahrene	Outriggers unextended Stabilisateurs fermés Stabilizzatori chiusi Eingefahrene 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
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ARGANO 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
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ARGANO 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
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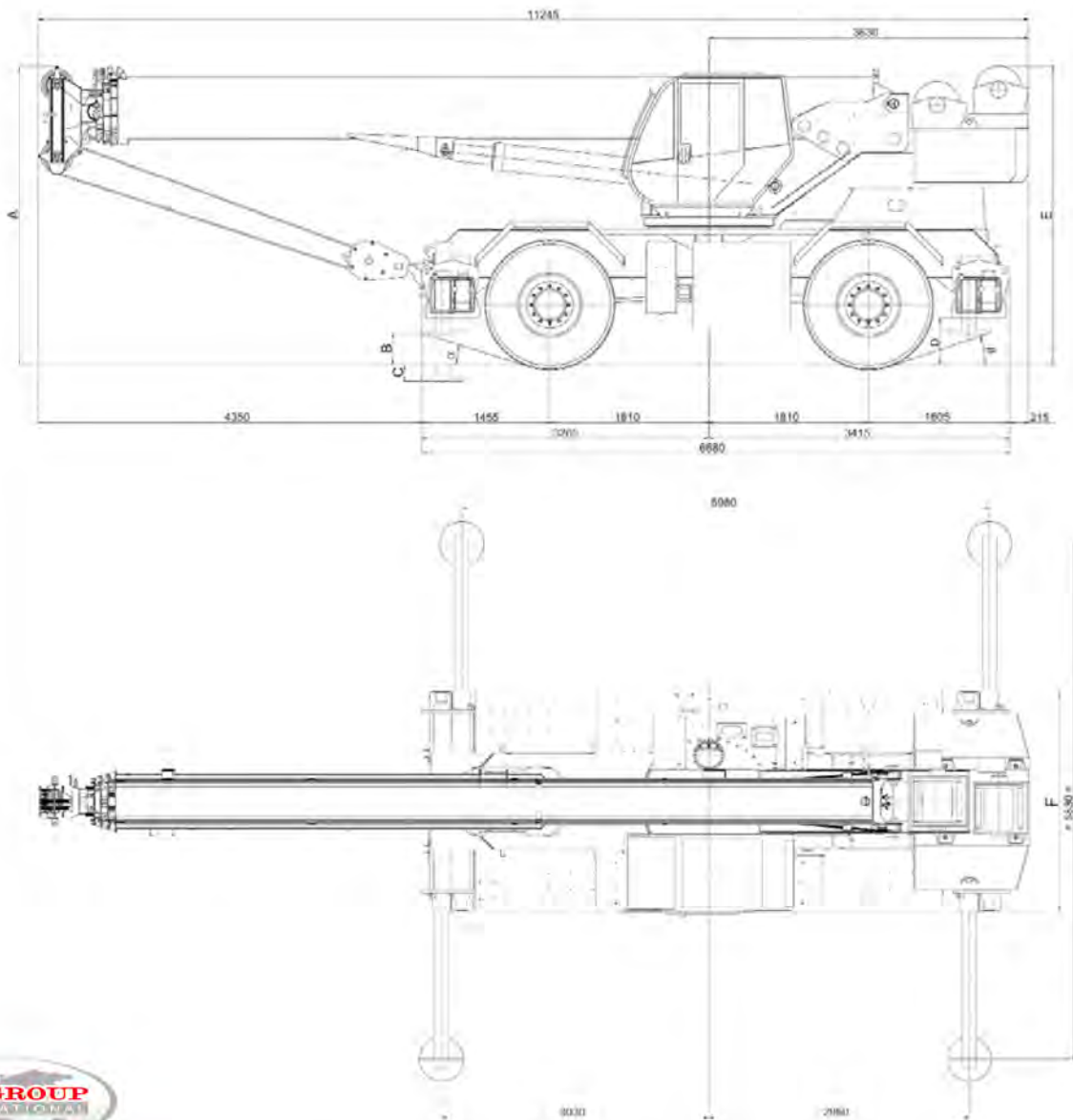
NOTE / NOTES / NOTES / HINWEISE

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 Meter-tonnen ausgedrückt, das Gewicht des Blocks, eventueller am Ausleger angebrachter Verlängerungen und jeglicher Hebezubehörsätze (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

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