

PPM

**Discovering
the new truck cranes**



C 330 - C 380 - C 580

PERFORMANCE - SAFETY - SERVICE - ECONOMY

C 580

TELESCOPIC TRUCK CRANE 8 × 4 ou 8 × 6

UPPERSTRUCTURE

Boom and telescoping

- 4 section standard boom consisting of a basic boom (10 m) and 3 hydraulically powered sections (31 m). Automatic synchronisation through a positive mechanical system and a single control lever — Double acting telescoping ram — No hoses inside the boom — Sections are longitudinally and laterally guided by bearing mounted rollers (life time greased).
 - Continuous telescoping stroke : 21 m.
 - Telescoping capacity (out or in) : 30 T.
 - 2 speed ranges : 72 s and 101 s out or in
- Optional : Lattice extension (3 positions : 9 m-12 m-16 m) folded along the basic section for transport-Fly jib (4.70 m) with tie ropes for 0° and 20° offset.

Derricking system

- Single, double acting ram — Negative boom angle for easy reeving and servicing of boom head — Boom angles max : 82° — mini : -5° — Two speed ranges : 44 s or 88 s (from — 5° up to + 82°).

Main Winch and auxiliary winch

- P.P.M. type winch with high pressure hydraulic motor and single reduction gear — Grooved drum and cable press device standard — Safe braking system : spring applied, hydraulically released, multi disc type — Non return sprag clutch.

	Main	Auxiliary
Motor Reductor	80 cc 1 : 32.4	54,8 cc 1 : 25.5
Max. line pull (1st layer)	6 T	4,2 T
Speeds (4th layer) (m/mn)	0- 63 0- 95 0-127	0-46 0-92
∅ rope/length	19 mm/180 m	15 mm/150 m
Drum ∅	420 mm	330 mm

Slewing

- By hydraulic motor through reduction gear and electromagnetic brake release — Cross roller slewing ring with external gear teeth mounted and bolted on machined surface — Transport lock, pneumatically operated from the cab.
- Slewing speed : 0 - 1,9 r.p.m.

Operator's cab

- Full all round vision type with removable front windshield sliding side window, electric windscreen wiper and washer, cab interior light, working light, three-way adjustable seat, independant cab heater, electric horn.

Cab controls and instrumentation

- Front panel with electric warning lights and controls for engine, cab heater, windscreen wiper and washer, lighter.
- Crane controls through 4 short levers and 2 interconnected pedals for independent or simultaneous operation of crane functions — Hoisting, derricking and telescoping controls are fitted with electric switches to provide 2 speed ranges.

CHASSIS AND TRANSMISSION

Chassis

Specific P.P.M. chassis. Designed and built for truck crane duty. Unitary welded torsion box construction with integral outriggers housing — Fitted with rigid and removable deck plates (with non slip protection) — Towing bracket with pin on front and rear — Lateral tool box — Stowable ladders to assist acces to upperstructure cab.

Outriggers

Independent type with 4 horizontal double extension beams — 4 vertical jacks mounted upside down with fixed rods protected by sleeves and fitted with bolt-on lock valves-Long vertical stroke (650 mm) — Removal and stowable pads
Direct controls located at the rear of the chassis in lockable housing-Sight levelling bubble indicator — Partial extension facility.

Engine

Diesel DEUTZ BF 6L 413 FRC turbo charged and air cooled — 270 CV DIN (199 Kw) at 2300 r.p.m. — Dry type air filter with electric warning light — Fuel tank capacity : 350 l.

NOTE : P.P.M. reserves the right to modify the above specifications which are given as a guide only. (Figures in accordance with metric system.)

Transmission

- Drive : 8 × 4 or 8 × 6 (option).
- Clutch : Single dry plate — Servo assisted.
- Gearbox : ZF synchromeshed 6 speeds type fitted with air operated overdrive device to provide intermediate gears — Single lever control with integral air switch to operate 12 forward and 2 reverse speeds.
- Transfer box : 2 speed ranges (off or on road) — Automatic front axle connection on low range (8 × 6 option).

Front and rear axles- Suspension

- Front : 2 steering axles (8 × 4 version) with 1 steering drive axle in 8 × 6 option. Leaf type spring suspension with hydraulic shock absorbers.
- Rear : Tandem axles with double planetary type reduction gear in the hubs — Interaxle and interwheel differential locks — Leaf type spring suspension.

Steering

Power steering unit with rack and pinion. Emergency steering pump flanged on transfer box. — Assistance steering cylinder fitted on linkage.

Brakes

- Service brakes (foot operated) acting on all wheels through dual air system.
- Emergency brake acting automatically on front or rear wheels. Parking brake on rear wheels, spring applied, air released. Exhaust brake, foot operated. Optional : electric retarder (TELMA).

Wheels and tyres

- 12 identical tyres and wheels.
- Front : single 1200 x 20 - Rear : twin 1200 x 20.
- Stand^t spare wheel (on chassis) with fast handling device.

Cab and instrumentation

- Full width three man cab, flexibly mounted in front of engine with 2 lockable doors — Full vision, large window surface (2 m²) 4 way adjustable driver's seat — Complete equipment including 2 rear view mirrors, sun vizor, twin heater/ defroster, separate ventilation, electric windshield washer and wipers, cab interior light, electric horn — Instrument panel with full road instrumentation and warning lights, ashtray, lighter, radio-cassette player and lockable glove compartment — Lined interior finish with sound absorbing and heat insulating material on doors, roof and floor.

CIRCUITS

Hydraulic

- Two main pumps with power take-off mounted on transfer box (4 × 48 l/min) + (2 × 100 l/min + 87 l/min).
- One separate steering pump directly flanged on the engine (24 L/mn).
- One emergency steering pump driven from transfer box.
- Separated selector blocks and independent feeding flows for combined or individual crane motions.
- Oil tank capacity : 620 l with centralized filters and sight level gauge.

Electric

24 volts equipment — Two 12 volts batteries (160 Ah) each and alternator with integral electronic regulator — Specific wiring for chassis and upperstructure with separate and pre-wired modules connection boxes and instrument panels — Multicore cables with plug-in connections and simple identification with number guide marks-Fuses grouped in 2 locations (chassis and turret cabs) — Complete road working equipment including back up lights high intensity fog and hazard lights.

Air circuit

Single cylinder air compressor (293 cm³) — Air regulator, anti-freeze device, automatic dryer, tyre inflating connection. Separate air tanks for brakes and general service (4 × 30 l) + (1 × 10 l).

SAFETY DEVICES

- Braking, steering and electrical roading circuits EEC approved.
- Safety lock valves bolted on all load bearing cylinders (derricking, telescoping, vertical outriggers).
- Hydraulic speed limiter on all load lowering motions (hoisting, derricking), telescoping).
- Block to block limit switch.
- Boom length and boom angle indicator.
- Mechanical lock of the upperstructure-Power operated.
- Emergency steering pump.



C 580

- Capacité maximum à 3 m/360° :
- Maximum capacity at 3 m/360° :
- Capacidad maxima a 3 m/360° :
- Maximale Hubkraft bei 3 m/360° :

Tonnes métriques		US tons
45	50	55
75 %	85 %	85 %

CARACTÉRISTIQUES PRINCIPALES

Pour le levage :

- Courbe sur 360° en continu sans béquille frontale.
- Hauteur maxi sous fléchette : 54 m.
- Flèche entièrement hydraulique à synchronisation automatique de 10 m à 31 m.
- Capacité de télescopage maxi : 30 T en rentrée et en sortie.
- Circuit hydraulique à 2 plages de vitesse et simultanéité de mouvements.

Pour la route et le chantier :

- Porteur spécifique P.P.M. de type 8 × 4 ou 8 × 6.
- Vitesse de déplacement : 80 km/h.
- Cabine grand confort à 3 places.
- Boîte 6 vitesses synchronisées avec doubleur de gamme.
- Stabilisateurs indépendants à longues courses de calage.
- Moteur DEUTZ turbo chargé et refroidi — 270 CV DIN.

MAIN CHARACTERISTICS

High lifting performances

- Full 360° lifting duties without additional front jack.
- Maximum boom and jib tip height : 54 m.
- Fully synchronized and powered boom up to 31 m.
- Maximum boom telescoping capacity : 30 T out or in.
- Two speeds hydraulic circuit — Simultaneous motions.

High mobility on and off road

- Specific P.P.M. carrier with 8 × 4 or 8 × 6 drive. Rear differential locks.
- Turbocharged air cooled DEUTZ engine — 270 HP (DIN).
- Maximum road speed : 80 Km/h.
- 12 forward speeds through synchromesh gear box and over-drive device.
- Full width three-man cab.

ALLGEMEINE DATEN

Für das Heben

- Lastentabelle über 360° ohne zusätzliche Abstützung unter Fahrerkabine.
- Max. Rollenhöhe mit Spitzenausleger : 54 m.
- Ausleger stufenlos, synchron hydraulisch teleskopierbar bis 32 m.
- Teleskopierung unter Last : 30 T ein und aus.
- Hydraulischen Kreislauf mit 2 Geschwindigkeiten und gleichzeitige Bewegungen.

Für das Fahren

- P.P.M.-Kranträger 8 × 4 oder 8 × 6.
- Fahrgeschwindigkeit : 80 Km/St.
- Komfortkabine mit 3 Plätze.
- Synchronisiertes 6 — Ganggetriebe mit Zwischengetriebe.
- Unabhängige Abstützungen mit grossem Niveau-ausgleich
- DEUTZ gekühlte Turbolader — 270 PS DIN.

CARACTERISTICAS PRINCIPALES

Elevacion de cargas

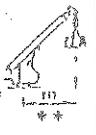
- Diagrama de cargas sobre 360° en continuo sin estabilizador delantero adicional.
- Altura maxima bajo plumín : 54 m.
- Pluma totalmente hidraulica con sincronización automatica de 10 m a 31 m.
- Capacidad maxima de telescopado en carga : 30 T. (salida y entrada).
- Circuito hidraulico consiguiendo simultaneidad de movimientos.
- 2 gamas de velocidades.

Carretera y obra

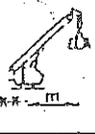
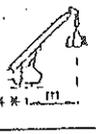
- Camion especifico P.P.M. de tipo 8 × 4 ó 8 × 6.
- Velocidad de desplazamiento : 80 Km/h.
- Cabina de gran confort con 3 asientos
- Caja de 6 velocidades sincronizadas y 6 multiplicadas.
- Estabilizadores independientes, de gran extension.
- Motor Deutz con Turbo y refrigeración — 270 CV (DIN).

P.P.M. 16 50 100

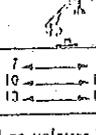
CHARGES SUR STABILISATEURS EN EXTENSION TOTALE = 300°
ON OUTRIGGERS FULLY EXTENDED - OVER 360°

	FLÈCHE PRINCIPALE (3 ÉLÉMENTS - HYDRAULIQUES) / MAIN BOOM														
	ROUGE • RED		VIOLET • PURPLE		BLEU • BLUE		BLANC • WHITE		VERT • GREEN		JAUNE • YELLOW			NOIR • BLACK	
	10 m		13.5 m		17 m		20.5 m		24 m		27.5 m			31 m	
	∠°	∠°	∠°	∠°	∠°	∠°	∠°	∠°	∠°	∠°	∠°	∠°		∠°	∠°
3	66.50	50.00	73.00	41.00	76.00	30.00	70.00	28.90	81.00	23.25	00.00	15.00		3	
3.5	63.50	44.90	70.50	41.00	74.50	30.00	77.00	26.90	79.50	23.25	70.00	5.00	70.00	3.5	
4	60.50	40.55	68.50	40.85	72.50	38.00	76.00	26.90	70.00	22.35	70.00	5.00	79.00	4	
4.5	57.50	35.95	67.50	35.95	71.00	35.45	74.50	25.75	77.00	21.30	70.00	5.00	79.00	4.5	
5	54.50	32.00	64.00	32.00	69.00	32.00	73.00	24.45	70.00	20.35	77.00	0.00	70.00	5	
6	47.50	26.10	60.00	26.10	65.50	20.10	70.00	22.15	73.50	18.60	75.00	5.40	70.50	6	
7	39.50	21.05	54.50	21.05	62.00	21.05	67.00	20.60	71.00	17.10	73.00	4.40	71.50	7	
8	27.00	18.65	49.50	18.00	58.00	18.65	64.50	18.15	60.50	15.70	71.00	3.45	73.00	8	
9			43.50	16.05	54.00	16.45	61.50	16.20	66.00	14.55	69.00	2.55	71.00	9	
10			37.50	14.00	50.00	14.70	58.00	14.45	63.00	13.45	67.00	1.80	69.50	10	
11			30.00	12.60	45.50	13.30	54.50	13.00	60.00	12.55	65.00	1.10	67.50	11	
12			16.00	11.40	40.50	11.40	51.00	11.25	57.50	11.15	62.50	10.35	65.50	12	
13					35.00	9.60	40.50	0.40	54.50	0.60	60.50	9.75	63.50	13	
14					20.00	8.20	44.00	0.65	51.50	0.35	58.00	0.75	61.50	14	
15					19.00	7.40	39.50	7.55	48.50	7.40	55.50	7.75	59.50	15	
16							35.00	6.70	45.00	6.00	52.50	6.05	56.50	16	
17							29.00	6.00	42.00	5.95	49.50	0.00	55.00	17	
18							20.00	5.25	38.50	5.25	46.50	5.25	52.50	18	
19								13.00	7.60	34.50	4.75	43.50	4.70	50.00	19
20									30.00	4.20	40.00	4.15	47.50	20	
21									24.50	3.75	37.00	3.70	45.00	21	
22									17.00	3.30	33.50	3.35	42.50	22	
23											29.50	3.00	39.50	23	
24											24.50	2.65	36.50	24	
25											19.50	2.35	33.00	25	
26											13.00	2.15	29.00	26	
27													24.50	1.85	27
28													19.00	1.60	28
29													13.00	1.45	29

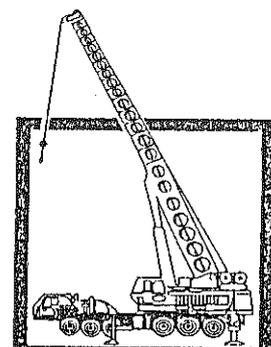
CHARGES SUR STABILISATEURS EN EXTENSION TOTALE - SUR 360°
ON OUTRIGGERS FULLY EXTENDED - OVER 360°

EXTENSION 31 m + 9,1 m			FLÈCHE + EXTENSION + FLÈCHETTE BOOM + EXTENSION + JIB 31 m + 9,10 m + 4,7 m				
∠°	∠°		0°		20°		
		3.5				3.5	
		4				4	
		4.5				4.5	
80.50	6.05	5				5	
79.00	5.85	6	00.50	3.00		6	
78.00	5.65	7	79.50	2.90	00.00	7	
76.50	5.40	8	70.00	2.80	79.00	8	
75.00	5.20	9	77.00	2.75	78.00	9	
74.00	4.95	10	76.00	2.60	77.00	10	
72.50	4.75	11	74.50	2.45	75.50	11	
71.00	4.55	12	73.50	2.40	74.50	12	
70.00	4.40	13	72.50	2.30	73.50	13	
68.50	4.25	14	71.00	2.20	72.50	14	
67.00	4.10	15	69.50	2.15	71.00	15	
65.50	3.90	16	68.50	2.10	70.00	16	
64.00	3.75	17	67.00	1.95	68.50	17	
62.50	3.65	18	66.00	1.90	67.50	18	
61.00	3.55	19	64.50	1.85	66.00	19	
59.50	3.35	20	63.00	1.80	64.50	20	
58.00	3.20	21	61.50	1.75	63.00	21	
56.00	3.10	22	60.00	1.70	62.00	22	
54.50	2.95	23	58.50	1.65	60.50	23	
53.00	2.85	24	57.50	1.60	59.00	24	
51.00	2.75	25	56.50	1.55	57.50	25	
49.50	2.45	26	54.50	1.55	56.00	26	
47.50	2.25	27	52.50	1.45	54.00	27	
45.50	2.00	28	51.50	1.40	52.50	28	
43.50	1.85	29	49.50	1.40	51.00	29	
41.50	1.70	30	48.00	1.35	49.50	30	
		31	46.50	1.35	47.50	31	

		SUR STABILISATEURS ON OUTRIGGERS	
12 m	15 m	1	150 kg
10 m	20 m	1	100 kg
21 m	25 m	1	80 kg
20 m	30 m	1	60 kg

		SUR PNEUS ON WHEELS	
7 m	9 m	4	80 kg
10 m	12 m	4	55 kg
13 m	15 m	4	45 kg

Les valeurs indiquées dans les tableaux ci-dessus sont uniquement à rajouter à la charge aux portées données, dans le cas de pneus 29.5 x 25. Values indicated on above chart must be added to the load corresponding to the radius when machine is fitted with 29.5 x 26 tyres.



Portées et angles sous charge. / Radius and angles with laden boom.
Couleur de repérage des longueurs sur la flèche. / Boom length indicating colors.