

30.09

SELF PROPELLED ROUGH TERRAIN CRANE 4 x 4 x 4 UPPERSTRUCTURE

Boom and telescoping

- 3 section standard boom consisting of a basic boom (9.50 m) and 2 hydraulically powered sections (24.30 m).
- Optional lattice extension (8.50 m) folded along the basic section.
- Optional fold-under fly jib (4.70 m) with two off-set angles (0° and 20°)
- Maximum boom tip height: 26.80 m. - Maximum extension tip height: 35.30 m. - Maximum fly-jib tip height: 40 m.
- Vertical and horizontal support on bearing mounted rollers.
- Single, double acting internally fed ram. Automatic synchronization through a positive mechanical system with single lever control.
- Any rated load can be telescoped.
- Maximum speed: out or in 65 s.

Derricking system

- Single, double acting ram - negative boom angle for easy reeving and servicing of boom head - Boom angles: Max: + 81° - Min: minus 3.5°.
- Speed: 21 s mini from - 3.5° to 81°.

Main winch

- PPM type with high pressure hydraulic motor and single reduction gear.
- Grooved drum and standard cable press device.
- Safe braking system: spring applied, hydraulically released, multi-plate disc type.
 - Maximum line pull (1st layer): 4.6 T.
 - Permissible line pull (4th layer): 3.35 T - (1st layer: 4.2 T).
 - 15 mm dia rope (anti-spin) Max: breaking strength: 20.55 T.
- 2 speed ranges: 0 - 90 m/mn and 0 - 135 m/mn.

Auxiliary winch

- Same as main winch with independent circuit and separate control - 15 mm dia rope (anti-spin).
- Maximum line pull (1st layer): 4.2 T.
- Permissible line pull (4th layer): 3 T - (1st layer: 3.8 T).
- 2 speed ranges: 0 - 90 m/mn and 0 - 135 m/mn.

Slewing

- By hydraulic motor through reduction gear and electro-magnetic brake release - Cross roller slewing ring with external gear teeth mounted and bolted on machined surface.
- Slewing speed: from 0 to 2.1 r.p.m.

Operator's cab

- Superstructure mounted: full all round vision type with removable front windshield, sliding side windows, electric windscreen wiper and washer, cab interior light, working light, adjustable and hydraulic damped seat, independent cab heater, electric horn.

Cab controls and instrumentation

- Fully instrumented front control panel with warning lights for engine, transmission, brakes - pressure and oil level, road and cab lights.
- Dash mounted controls for stabilizers, transmission, steering, cab heater.
- Crane controls through 4 levers and 2 inter-connected pedals for independent or simultaneous operation of crane functions.

CHASSIS AND TRANSMISSION

Chassis

All welded single unit monocoque construction - Made from high strength steel plates with integral outrigger boxes - Fitted with standard mudguards providing large walking plates around the chassis - Non slip protection - Hook points.

Outriggers

Independent type - Four horizontal beams and four vertical jacks with fixed rods protected by sleeves and fitted with bolt-on lock valves - Two positions non removable pads (400 mm x 400 mm) - Controls operated from the cab or from the chassis - Partial extension facility.

Engine

Diesel DEUTZ engine - Type BF 6L 913 - 160 CV DIN (118 kW at 2500 r.p.m.) - Turbo charged - Air cooled - Fuel tank: 200 l (with level gauge).

Transmission

Direct mounted torque converter - Power shift gear box with 6 (3 x 2) forward and reverse speeds - Four wheel drive selection from the cab. Automatic rear axle disconnect in high range.

Axles

- Double reduction steering drive axles.
- Rear axle fitted with no spin differential.

Hydraulic

- 2 main POCLAIN high pressure pumps (2 x 45 l and 3 x 45 l). Pumps can be disconnected for driving.
- 1 engine mounted pump for steering (1 x 35 l).
- Separated selector blocks for single and combined crane motions.
- Oil tank capacity 250 l with filters and visual level gauge.

Suspension

- Front: Axle fixed to the chassis.
- Rear: Coil springs and hydraulic shock-absorbers, lockable in any position from the cab for free-on-wheels duties.

Tyres

- Standard: 4 tyres 20.5 x 25.
- Optional: 4 tyres 23.5 x 24 or 4 tyres 1600 x 24.

Steering

- Front: Hydrostatic with steering wheel.
- Rear: hydro-electric controlled by independent lever located under the steering wheel.

Braking

- Service brakes: Foot operated on all wheels with 2 independent Hydropneumatic systems for front and rear.
- Emergency brakes: On the front wheels.
- Parking brakes: Operating on front axle, automatically engaged with the reverser in neutral position.

CIRCUITS

Electric

24 volt - Separated circuits for turret and chassis with separated fuse boxes. Complete road and working lights.

Pneumatic

Air regulator, anti-freeze device, automatic purifier - Separate air tanks for front and rear brakes.

SAFETY DEVICES

- Safety lock valves bolted to all load bearing cylinders - (derrick, telescope, outriggers).
- Speed limiter on all load lowering motions (hoist, derrick, telescope).
- Pressure limiters on all hydraulic functions.
- Over hoist knock out.
- Indication of over front duties.
- Indication of boom length and boom angle.
- Mechanical locking of the turret for road travel - power operated from cab.
- All functions come automatically to a stop when the control levers are released.
- Double braking circuit.

OPTIONAL

- Safe load indicator with motion cut.
- Extra large pads for outriggers.
- Lower stroke hook limiter.

- Soundproofing.
- Tropical or arctic equipment.
- Special adaptations to customer requirements.

NOTE: P.P.M. reserves the right to modify the above specifications which are given as a guide only.

* SUR STABILISATEURS EN EXTENSION TOTALE – SUR 360°

**	FLECHE PRINCIPALE									
	9,5 m		BLANC 13,2 m		16,9 m		20,6 m		24,3 m	
	0°	75 %	0°	75 %	0°	75 %	0°	75 %	0°	75 %
3	67,50	30,00	71,50	20,00	78,00	20,00				
3,5	62,50	25,20	69,50	20,00	76,00	20,00				
4	60,00	22,90	67,00	20,00	73,50	20,00	77,00	15,50		
4,5	56,50	20,70	65,00	19,95	72,00	19,05	75,00	14,70	78,00	10,80
5	54,00	18,90	63,50	18,30	70,00	17,50	73,00	13,95	76,50	10,40
6	46,50	14,85	58,00	15,35	66,00	15,00	70,50	12,60	75,00	9,55
7	36,00	10,90	53,50	11,15	62,00	11,40	67,00	11,45	72,50	8,85
8	21,00	8,30	49,50	8,60	58,00	8,70	65,00	8,85	70,00	8,15
9			43,00	6,90	54,00	7,10	62,00	7,20	67,00	7,35
10			36,00	5,65	50,00	5,95	58,50	6,10	64,00	6,25
11			24,50	4,70	45,00	5,00	55,50	5,10	61,50	5,20
12			6,50	3,95	39,50	4,25	52,50	4,30	59,00	4,40
13					34,00	3,55	49,00	3,65	56,50	3,80
14					27,00	3,05	45,50	3,10	53,50	3,30
15					17,50	2,60	41,50	2,70	50,50	2,90
16							36,50	2,35	47,00	2,50
17							30,50	2,05	43,00	2,20
18							22,50	1,80	39,50	1,90
19									35,50	1,65
20									31,00	1,45
21									26,00	1,25
22									19,50	1,10
23									11,00	0,95
24										
25										

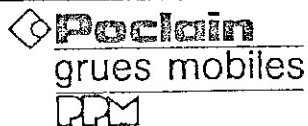
**	FLECHE 33 m + FLECHETTE 4,70 m					
	NOIR 33 m		NOIR 0°		NOIR 20°	
	0°	75 %	0°	75 %	0°	75 %
						3
						3,5
						4
						4,5
						5
						6
79,00	4,60					7
77,50	4,35	79,00	2,90			8
76,00	4,10	77,50	2,75	80,50	1,90	9
74,00	3,90	76,00	2,60	78,50	1,85	10
72,50	3,75	74,50	2,50	77,00	1,80	11
70,50	3,60	73,00	2,40	75,50	1,70	12
68,50	3,40	71,50	2,30	74,00	1,65	13
66,50	3,30	70,00	2,20	72,00	1,55	14
65,00	3,15	68,00	2,10	70,00	1,50	15
63,00	3,05	66,50	2,00	68,50	1,45	16
61,00	2,80	65,00	1,90	67,00	1,40	17
58,50	2,45	63,00	1,80	65,00	1,35	18
56,50	2,15	61,50	1,75	63,00	1,30	19
54,00	1,90	59,50	1,65	61,50	1,25	20
52,00	1,70	58,00	1,60	59,50	1,25	21
49,50	1,50	56,50	1,55	57,50	1,20	22
47,50	1,30	54,50	1,40	55,50	1,15	23
45,00	1,15	52,50	1,25	53,50	1,10	24
42,50	1,00	50,50	1,10	51,50	1,10	25
40,00	0,90	48,50	0,95	49,50	1,05	

* SUR STABILISATEURS EN EXTENSION TOTALE – SUR L'AVANT ± 10°

**	FLECHE PRINCIPALE									
	9,5 m		BLANC 13,2 m		16,9 m		20,6 m		24,3 m	
	0°	75 %	0°	75 %	0°	75 %	0°	75 %	0°	75 %
4,5	56,50	20,70	65,00	19,95	72,00	19,05	75,00	14,70	78,00	10,80
5	54,00	18,90	63,00	18,30	70,00	17,50	73,00	13,95	76,50	10,40
6	44,00	16,10	58,00	15,60	66,00	15,00	70,50	12,60	75,00	9,55
7	32,00	13,50	53,50	13,55	61,50	13,10	67,00	11,45	72,50	8,85
8	17,00	10,60	48,50	11,95	57,50	11,60	65,00	10,40	70,00	8,15
9			43,00	10,55	53,50	10,35	62,00	9,60	67,00	7,50
10			36,50	8,80	49,50	9,00	58,50	8,90	64,00	6,95
11			25,00	7,40	44,00	7,60	55,50	7,60	61,50	6,45
12			7,50	5,60	38,50	6,50	52,50	6,50	59,00	6,00
13					33,00	5,55	49,00	5,60	56,50	5,65
14					26,00	4,75	45,00	4,90	53,50	5,00
15					16,00	4,15	41,00	4,25	50,50	4,35
16							36,00	3,75	47,00	3,85
17							30,00	3,35	43,00	3,45
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19									35,50	2,75
20									30,50	2,45
21									25,50	2,20
22									19,00	1,95
23									10,00	1,75
24										
25										

**	FLECHE 33 m + FLECHETTE 4,70 m					
	NOIR 33 m		NOIR 0°		NOIR 20°	
	0°	75 %	0°	75 %	0°	75 %
						4,5
						5
						6
						7
						8
						9
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* Avec roues décollées du sol sur sol horizontal et dur.
 ** Portées et angles sous charge nominale.



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