

LOCATELLI
CRANE



GRIL 8700T 
HEAVY DUTY

CAMION

SASIU

Cadru sudat, construit din materiale cu rezistenta superioara.

STABILIZATORI HIDRAULICI

Hidraulici independenti cu trasee telescopice si iesire orizontala si 4 cilindri verticali cu valve de blocare.

Picioare de sprijin demontabile.

Comenzi electrohidraulice cu posibilitate de iesire partiala actionate de cabina de pilotaj.

MOTOR

CATERPILLAR ACERT C6.6, 6 cilindri diesel turbo intercooler cu control electronic si racire cu apa. Putere max 168 Kw cu 2.200 rotatii /min.

Cuplu max 986 Nm la 1.400 rotatii/min. Filtru uscat de admisie a aerului cu cartus de siguranta si indicator de colmatare. Capacitate rezervor carburant 300 l.

TRANSMISIE

Convertor de cuplu si schimbator "power shift" cu 6 trepte inainte si 6 trepte marsalier.

POMPE HIDRAULICE

La pinion – una tripla si una dubla actionata de PTO pe convertor si motor. Sarcina totala 460 l/min la capacitate maxima. Capacitate rezervor 560 l.

AX

Anterior: conducere/ ax directie cu diferential si reductii planetare montate rigid pe sasiu. Posterior: conducere/ax directie cu blocaj diferential si reductii planetare, oscilante pentru utilizare off-road. Blocare automata a oscilatiei axului posterior pentru lucrari pe pneuri.

DIRECTIE

Anterioara: actionata hidraulic cu comanda volan.

Posterioara: independenta, hidraulica, cu indicator de aliniere a rotelor posterioare.

Patru posibilitati de directie: numai roti anterioare; roti posterioare; coordonata; cu crab. Blocaj mecanic al directiei posterioare pentru mersul pe strada.

FRANE

De serviciu/urgenta: cu actionare hidropneumatica cu circuit independent.

Comanda cu pedale care actioneaza pe toate rotile.

De stationare : cu cilindru cu arc pe toate rotile.

PNEURI

23.5 x 25 - tip off road, montate individual.

INSTALATIE ELECTRICA

De pomire si iluminare la 24 Volți conform cu normativa CE.

TURELA MACARA

STRUCTURA TURELA

Construita cu placi si profile din otel cu rezistenta superioara.

BRAT TELESCOPIC

Cu 4 sectiuni.

Brat cu extindere integral hidraulica si sincronizat de la 10.1 m la 32.3 m.

Inaltime maxima cap brat 35.4 m.

ROTATIE TURELA

Rotatie continua la 360°. Motor hidraulic cu reductor cu reductie tripla epicycloidal.

Frana de rotatie automata cu discuri multiple.

Sistem de rotatie libera.

Roata/pinion zimtat extern.

Blocare manuala rotatie cu comanda din cabina de pilotaj.

TROLIU

Hidraulic cu 2 viteze.

Motor hidraulic cu pistoane 2 viteze cuplat la reductor cu dubla reductie epicycloidal. Tambur canelat.

Frana automata cu discuri multiple si valva de contrabalansare.

CABINA

Construita din otel si suspendata elastic pe partea stanga a turelei.

Vizibilitate panoramica completata de ferestre mari de siguranta.

Scaun operator culisant si reglabil in sus si jos.

COMENZI MACARA

Manipulatori montati pe bratele scaunului operator prin comanda independenta sau simultana cu miscarea macaralei.

Butoane electrice pentru comanda stabilizatori, si rotatie libera.

DISTRIBUTORI

Distributorii hidraulici individuali garanteaza combinarea simultana a miscarilor macaralei. Sistem centralizat pentru control presiune hidraulica.

COMENZI MISCARI MACARA

Volan inclinabil pentru comanda directie roti anterioare.

Buton electric pentru directie independent pentru rotile posterioare.

Selector pentru schimbator de viteza, schimbare directie si frana de parcare.

Buton electric pentru comanda mers incet si rapid cu actionare automata pentru 2/4 roti conducatoare. Instrumente diagnoza motor.

DISPOZITIVE DE SIGURANTA

Limita urcare si coborare carlig. Valve de blocare pe toti cilindrii hidraulici.

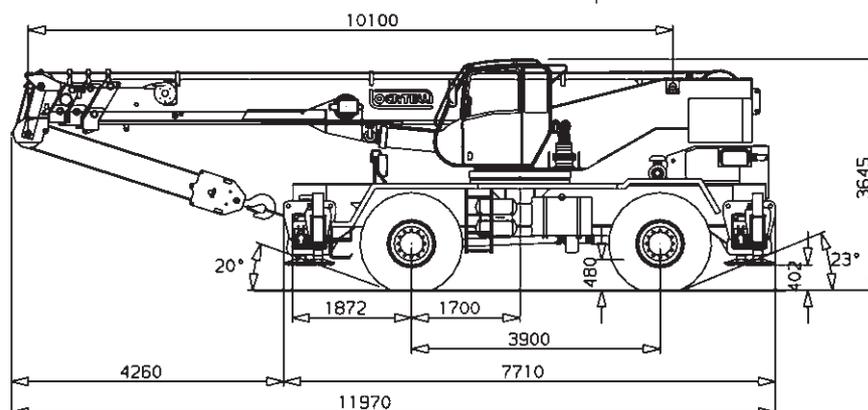
Valve de presiune maxima pe toate circuitele hidraulice.

CONFIGURARE STABILIZATORI

ACCESORII LA CERERE

- Extensie cu traseu electric inclinabila de 9 m
- Extensie telescopica inclinabila de la 10.0 la 17.5 m
- Carlig cu bila 5.000 kg
- Bloc cu 1 scripete de 15.000 kg
- Troliu auxiliar tiraj 4.000 kg
- Far de lucru (cabina si sectiunea baza a bratului)

- Radiocomanda
 - Indicator electronic de sarcina *
 - Dispozitiv reducere miscari *
 - Incalzire independenta cabina *
 - Aer conditionat
 - Roata de rezerva 23.5x25
- *Aparatura standard cf normelor CE



Dimensiuni (mm)

CHASSIS

CHASSIS

Heavy duty, all welded box type section frame.

OUTRIGGERS

Four independent horizontal extension hydraulically operated outrigger beams with vertical hydraulic jacks and lock valves. Removable floats. Electro-hydraulic controls with partial extension facility controlled from the cab.

ENGINE

CATERPILLAR ACERT C6.6, six cylinders turbocharged intercooler diesel engine, electronically controlled and water cooled.

Max power 168 kW at 2.200 rpm. Max torque 986 Nm at 1.400 rpm. Dry type air cleaner with safety cartridge and service indicator. Fuel tank capacity 300 L.

TRANSMISSION AND TORQUE CONVERTER

Engine mounted torque converter driving an electro-hydraulically controlled power-shift transmission having 6 forward and 6 reverse speeds.

HYDRAULIC PUMPS

5 gear type hydraulic pump system, driven from two power-take-offs mounted on torque converter and engine. Total pumps capacity 460 L/min. Oil tank capacity 560L.

AXLES

Front: driving/steering axle with differential and planetary reduction solidly mounted to frame.

Rear: driving/steering axle with differential lockout and planetary reduction, pivot mounted. Automatic rear axle oscillation lockout.

STEERING

Front: hydraulically powered steering controlled by steering wheel.

Rear: independent hydraulically powered steering with rear wheel alignment indicator. Four steering modes: only front, only rear, coordinated and crab steering. Positive lock to hold in center line rear wheels for road travel.

BRAKES

Service and emergency: compressed air pressure dual independent braking system, foot operated on all wheels.

Parking: spring set, air released brake actuator acting on front axle.

TYRES

23.5 x 25 – earthmover type, single mounted front and rear.

ELECTRICAL EQUIPMENT

24 V starting and lighting equipment according to EC traffic regulations.

SUPERSTRUCTURE

SUPERSTRUCTURE FRAME

Fabricated from high tensile steel plate.

BOOM

4 sections 10,1 m to 32,3 m automatically synchronized fully powered telescopic boom. Max. boom head height 35,4 m.

BOOM ELEVATION

Single double-acting hydraulic cylinder. Elevation from -3° a $+80^{\circ}$.

SLEW

360° continuous rotation. Hydraulic motor driving slewing pinion through planetary triple reduction unit. Spring applied, hydraulically released multidisc type slew brake. Free swing device. External gear teeth slew ring. Hand operated slewing lock, controlled from the operator's cab.

MAIN HOIST

Hydraulic, two speeds. Twin piston type hydraulic motor, driving grooved hoist drum through double reduction gear unit.

Spring applied, automatically released fail-safe hoist brake and counterbalance valve.

OPERATOR'S CAB

Turntable mounted on rubber grommets, left hand drive, fully enclosed, all steel construction with safety glass and operator's seat on slides with height and rake adjustment.

CRANE CONTROLS

Armrest mounted joysticks for independent or simultaneous operation of crane motions; electric switches for control of outriggers, fast hoist speed and free swing.

CONTROL VALVES

Individual valve banks permitting simultaneous independent control of multiple crane functions. Centralized system for hydraulic pressure control.

TRAVEL CONTROLS

Adjustable steering wheel for control of front steering axle. Electric switch for independent steering of rear axle. Transmission gear selection, forward-reverse shift and parking brake control. Control switch for high-low range speeds with automatic 2 or 4 wheel drive selection. Master gauge for engine diagnostic.

SAFETY DEVICES

Overhoist and overlower limit switches; lock valves on all cylinders; hydraulic overload valves on all systems.

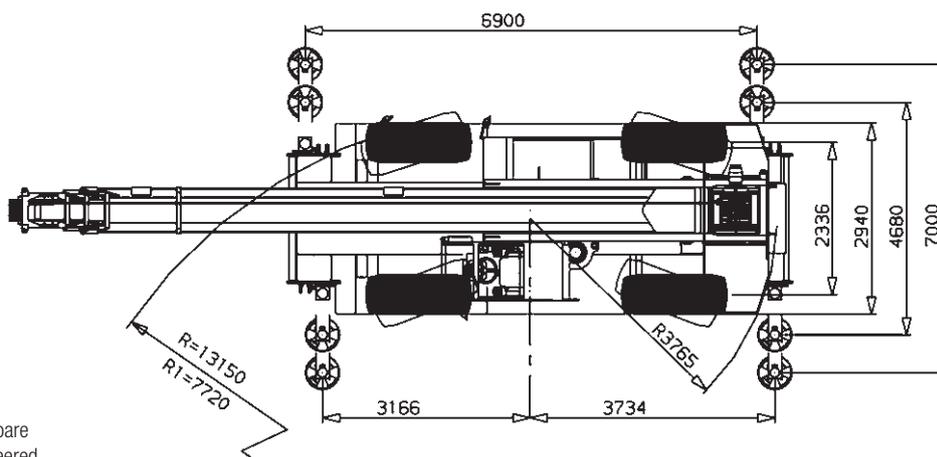
Automatic outriggers extension sensing system.

MAIN OPTIONAL EQUIPMENT

- 9,0 m offsetable lattice extension
- 10,0 m - 17,5 m telescopic offsetable extension
- Single hook 5.000 kg capacity
- Hookblock 15.000 kg
- Auxiliary hoist, max line pull 4.000 kg
- Working lights (on cab and base boom)

- Remote control
- Motion cut equipment*
- Electronic safe load indicator*
- Independent cab heater/defroster*
- Air conditioned
- Spare tyre

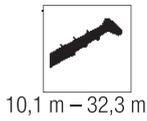
*Standard equipment for CE machine



4 roti directoare
4 wheels steered

Dimensiuni (mm)

CAPACITATI RIDICARE BRAT PRINCIPAL - LIFTING CAPACITIES TELESCOPIC BOOM



100%



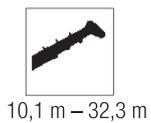
360°



8 t



	10,1 m	13,8 m	17,5 m	21,2 m	24,9 m	26,7 m	28,6 m	32,3 m	
3,0	65,0								3,0
4,0	44,8	42,1	35,0						4,0
5,0	35,4	34,3	29,9	22,6	22,3	22,1	21,5		5,0
6,0	29,1	28,5	26,8	22,4	20,1	19,4	18,7	13,3	6,0
7,0	24,8	24,2	22,6	19,7	17,7	17,1	16,5	12,0	7,0
8,0		21,0	20,6	17,6	15,8	15,2	14,7	11,1	8,0
9,0		17,8	17,4	16,0	14,2	13,7	13,2	10,2	9,0
10,0		15,1	14,6	14,3	12,9	12,5	12,1	9,5	10,0
11,0		12,8	12,6	12,5	12,0	11,6	11,1	8,9	11,0
12,0			10,8	10,6	10,4	10,3	10,2	8,3	12,0
13,0			9,6	9,3	9,1	9,1	9,0	7,8	13,0
14,0			8,4	8,2	8,1	8,0	8,0	7,3	14,0
15,0			7,6	7,3	7,2	7,2	7,4	6,8	15,0
16,0				6,6	6,5	6,4	6,4	6,3	16,0
17,0				5,9	5,8	5,8	5,8	5,7	17,0
18,0				5,4	5,3	5,2	5,2	5,2	18,0
19,0					4,8	4,8	5,1	4,7	19,0
20,0					4,4	4,3	4,3	4,3	20,0
21,0					4,0	4,0	3,9	3,9	21,0
22,0					3,7	3,6	3,6	3,6	22,0
23,0						3,3	3,3	3,2	23,0
24,0						3,1	3,0	3,0	24,0
25,0							2,8	2,7	25,0
26,0							2,6	2,5	26,0
27,0								2,3	27,0
28,0								2,1	28,0
29,0								2,0	29,0



100%



360°

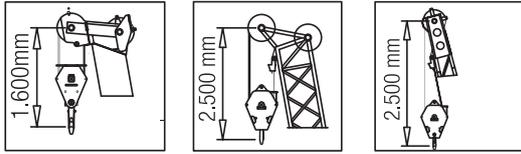


8 t



	10,1 m	13,8 m	17,5 m	21,2 m	24,9 m	26,7 m	28,6 m	32,3 m	
2,5	70,0								2,5
3,0	65,0								3,0
4,0	44,8	42,1	35,0						4,0
5,0	35,4	34,3	29,9	22,6	22,3	22,1	21,5		5,0
6,0	29,1	28,5	26,8	22,4	20,1	19,4	18,7	13,3	6,0
7,0	24,8	24,2	22,6	19,7	17,7	17,1	16,5	12,0	7,0
8,0		21,0	20,6	17,6	15,8	15,2	14,7	11,1	8,0
9,0		19,1	17,4	16,0	14,2	13,7	13,2	10,2	9,0
10,0		16,0	14,6	14,3	13,1	12,5	12,1	9,5	10,0
11,0		13,5	13,8	12,5	12,0	11,6	11,1	8,9	11,0
12,0			11,9	11,7	10,4	10,3	10,2	8,3	12,0
13,0			10,6	10,2	9,1	9,1	9,0	7,8	13,0
14,0			9,6	9,0	8,1	8,0	8,0	7,3	14,0
15,0			8,4	8,0	7,2	7,2	7,4	6,8	15,0
16,0				7,3	6,5	6,4	6,4	6,3	16,0
17,0				6,5	5,8	5,8	5,8	5,7	17,0
18,0				5,9	5,7	5,2	5,2	5,5	18,0
19,0					5,3	4,8	5,1	5,1	19,0
20,0					4,8	4,7	4,3	4,7	20,0
21,0					4,4	4,4	3,9	4,2	21,0
22,0					4,0	4,0	3,6	3,9	22,0
23,0						3,6	3,5	3,5	23,0
24,0						3,4	3,4	3,3	24,0
25,0							3,1	2,9	25,0
26,0							2,8	2,7	26,0
27,0								2,5	27,0
28,0								2,3	28,0
29,0								2,2	29,0

DIAGRAMA DE LUCRU- WORKING DIAGRAM

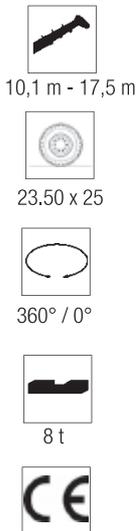
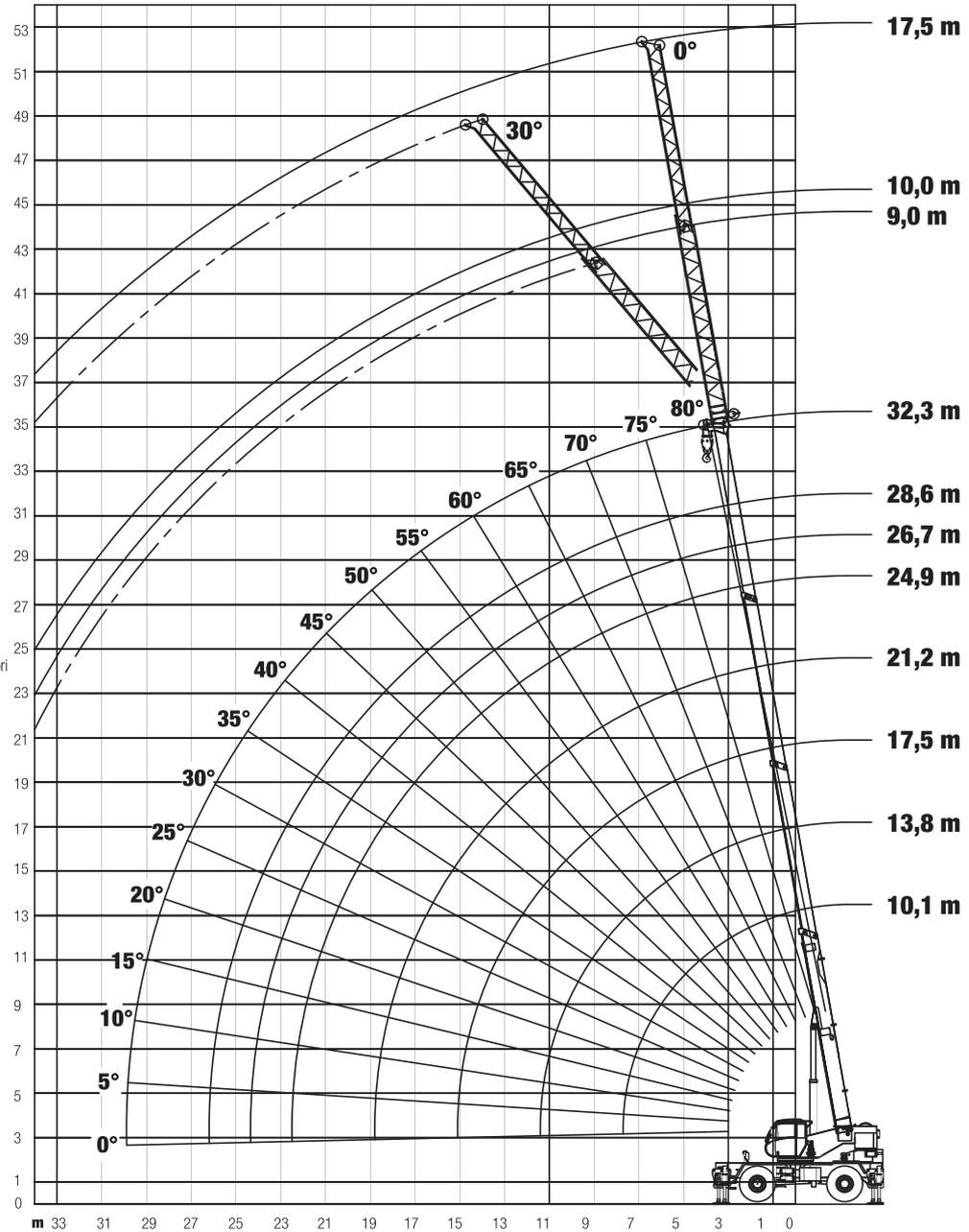


NOTE LA CAPACITATE DE RIDICARE

- Capacitatile de ridicare tabulate sunt conforme cu standardele CE.
 - Capacitatile de ridicare sunt prezentate in tone metrice.
 - Ponderea carligului, extensiilor, troliu si toate dispozitivele auxiliare de ridicare trebuie sa fie deduse din capacitatile de ridicare pentru a obtine sarcina neta care poate fi ridicata.
 - Razele de lucru se masoara de la axa de rotire.
 - Pentru lungimi de brat si/sau raze care nu sunt enumerate utilizati cea mai mica sarcina data pentru urmatoarea lungime de brat mai mare si/sau raza.
 - Capacitatile pe stabilizatori sunt valabile numai in cazul in care toate grinzile de stabilizatori sunt complet extinse si macaraua nivelata cu precizie pe o suprafata de sprijin ferma.
 - Capacitatile de pe anvelope sunt valabile numai in cazul in care pneurile sunt umflate la presiunea recomandata si macaraua functioneaza pe o suprafata plana, solida si orizontala:
- pentru capacitatile de 360° statice, oscilatiile axului spate trebuie sa fie blocate.
 - pentru sarcinile frontale trebuie sa fie adaugata blocarea rotatiei si mersul cu incarcatura suspendata trebuie sa se faca cu incarcatura usor ridicata de la pamant, evitand oscilatiile incarcaturii

NOTES TO LOAD CHARTS

- The tabulated lifting capacities comply with the CE standards.
 - Lifting capacities are given in metric tons.
 - The weight of the hookblocks, boom extensions, sling and all auxiliary lifting devices must be deducted from the lifting capacities to obtain the net load to be lifted.
 - Working radii are measured from the slewing centreline.
 - For boom lengths and/or radii not listed use the smallest load given for the next longer boom length and/or radius.
 - The capacities on outriggers are valid only if all outrigger beams are fully extended and the crane accurately levelled on a firm supporting surface.
 - The capacities on tyres are valid only if the tyres are inflated to the recommended pressure and the crane works on a flat, solid and horizontal surface:
- for 360° static capacities the rear axle oscillation must be locked.
 - for over front travelling capacities the swing lock pin must be fully engaged and the travel with suspended load should be carried out with the load little raised from the ground, close to the crane and avoiding load oscillations.



m	0 km/h			3 km/h			m
	360°			0°			
	10,1 m	13,8 m	17,5 m	10,1 m	13,8 m	17,5 m	
4,0	14,0	14,0	14,0	13,3	13,3	13,1	4,0
5,0	10,5	10,5	10,5	10,9	11,0	10,9	5,0
6,0	7,9	7,8	7,7	9,1	9,2	9,1	6,0
7,0	6,1	6,0	5,9	7,6	7,8	7,8	7,0
8,0		4,8	4,8		6,7	6,7	8,0
9,0		3,9	3,9		5,7	5,8	9,0
10,0		3,1	3,1		5,0	5,0	10,0
11,0		2,5	2,5		4,3	4,0	11,0
12,0			2,0			3,8	12,0
13,0			1,4			3,3	13,0

CAPACITATI RIDICARE EXTENSIE BRAT - LIFTING CAPACITIES BOOM EXTENSION



100 %



360°



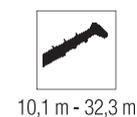
8 t



9,0 m



m	10,1 m		24,9 m		32,3 m		m
	9,0 m		9,0 m		9,0 m		
	0°	30°	0°	30°	0°	30°	
3,0	4,7						3,0
4,0	4,1		5,9				4,0
5,0	3,8	2,3	5,5		6,0		5,0
6,0	3,4	2,0	5,1		5,7		6,0
7,0	3,0	1,9	4,7		5,3		7,0
8,0	2,7	1,8	4,3	2,3	5,1		8,0
9,0	2,5	1,6	4,0	2,1	4,8	2,4	9,0
10,0	2,3	1,5	3,8	2,0	4,5	2,2	10,0
11,0	2,1	1,4	3,6	1,9	4,2	2,1	11,0
13,0		1,1	3,3	1,7	3,8	1,9	13,0
15,0			2,9	1,6	3,5	1,8	15,0
17,0			2,6	1,5	3,2	1,7	17,0
19,0			2,4	1,4	2,8	1,6	19,0
21,0			2,1	1,2	2,6	1,5	21,0
23,0			1,8	1,1	2,4	1,4	23,0
25,0				0,9	2,2	1,3	25,0
27,0					2,0	1,1	27,0
29,0					1,7	0,9	29,0
31,0						0,7	31,0
33,0						0,5	33,0



100 %



360°



8 t



10,0 m - 17,5 m



m	10,1 m				24,9 m				32,3 m				m
	10,0 m		17,5 m		10,0 m		17,5 m		10,0 m		17,5 m		
	0°	30°	0°	30°	0°	30°	0°	30°	0°	30°	0°	30°	
3,0			2,5										3,0
4,0	3,5		2,2		5,0								4,0
5,0	3,2	2,6	2,0		4,8		2,7		5,2				5,0
6,0	2,8	2,5	1,8		4,3		2,5		5,0		2,7		6,0
7,0	2,5	2,4	1,7		3,9		2,3		4,6		2,6		7,0
8,0	2,3	2,2	1,6		3,7		2,2		4,3		2,4		8,0
9,0	2,0	2,0	1,4		3,3	2,6	2,0		3,9		2,3		9,0
10,0	1,8	1,8	1,3	1,3	3,2	2,5	1,9		3,7		2,1		10,0
11,0	1,6	1,5	1,2	1,2	3,0	2,4	1,7	1,1	3,5	2,6	2,0		11,0
13,0		1,1	1,1	1,2	2,5	2,1	1,5	1,1	3,2	2,4	1,8		13,0
15,0			0,9	1,0	2,3	1,9	1,4	1,0	2,8	2,2	1,6	1,3	15,0
17,0				0,9	2,1	1,7	1,3	0,9	2,6	2,0	1,5	1,2	17,0
19,0				0,8		1,5	1,2	0,8	2,4	1,8	1,3	1,1	19,0
21,0						1,3	1,1	0,7	2,1	1,6	1,3	1,0	21,0
23,0						1,0	1,0	0,6	1,7	1,4	1,2	1,0	23,0
25,0							0,8			1,2	1,1	1,0	25,0
27,0										1,0	1,0	0,9	27,0
29,0											0,8	0,8	29,0
31,0											0,6	0,7	31,0
33,0												0,6	33,0

DATE TEHNICE - SPECIFICATIONS

	Incarcatura pe axe Axle loads	1	2	Greutate totala Total weight
	t	20,6	23,3	43,9

		1	2	3	R1	R2	R3		
		km/h	4x4	2,2	4,1	11,1	2,2		4,1
		km/h	4x2	5,1	9,7	26,6	5,1	9,7	25%
		23.50 x 25							

	Mecanism Mechanisms	Progresiv variabil Infinitely variable	Diametru/Lungime franghie Rope diameter / Rope length	Putere maxima Max.permissible line pull
		0 -120 m/min	18 mm x 185 m	57,4 kN
		0 - 62 m/min	15 mm x 120 m	39,2 kN
		0 - 2 min ⁻¹		
		-3° / +80°	70 s ca. / 70 s approx. 60 s ca. / 60 s approx.	
		10,1 m - 32,3 m	120 s ca. / 120 s approx.	

	Capacitate ridicare Lifting capacity	Nr de scripeti No of sheaves	Numar franghii No of lines	Greutate Weight
	65 t	6	12	670 kg
	15 t	1	3	290 kg
	5 t	-	1	100 kg

Sub rezerva modificarilor fara preaviz / Subject to modification without notice

Simboluri - Symbols

	Brat telescopic Telescopic boom		Extensie brat Boom extension		Stabilizatori Outriggers		Cauciucuri Tyres		Rotatie Slewing
	Contragreutate Counterweight		Raza Radius		Angrenaj Gear		Gama lenta Low range		Gama rapida High range
	Troliu principal Main hoist		Troliu secundar Auxiliary hoist		Extindere brat Boom telescoping		Alitudine brat Boom elevation		Carlig Hook block

LOCATELLI

CRANE

