LOCATELLI
CRANE

GRIL 8300T

GRIL 8300T

CAMION

SASIU
Cadru sudat, construit din material cu rezistenta superioara.

STABILIZATORI HIDRAULICI
Hidraulici independenti cu 4 trasee si iesire orizontala si 4 cilindri verticali cu valve de blocare. Picioare de sprijin demontabile.
Comenzi hidraulice cu posibilitate de iesire partial actionate de cabina de pilotaj.

MOTOR
CUMMINS Q S B 4.5, 4 cilindri diesel turbo intercooler cu control electronic si racire cu apa. Putere max 113 Kw cu 2.200 rotatii /min. Cuplu max 549 Nm la 1.500 rotatii/min. Filtru uscat de admisie a aerului cu cartus de siguranta si indicator de colmatare. Capacitate rezervor carburant 200 l.

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

POMPE HIDRAULICE
La pinion – una tripla actionata de PTO pe convertor. Sarcina totala 365 l/min la capacitate maxima. Capacitate rezervor 430 l.

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

DIRECTIE
Anterioara: actionata hidraulic cu comanda volan.
Posterioara: independenta, hidraulica, cu indicator de aliniere a rotielor 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 dublu independent.
Comanda cu pedale care actioneaza pe toate rotile.
De stationare : cu disc montat pe axa anterioara si comandat de cilindru cu arc.

PNEURI
16.00 x 25 – tip "off-road, montate individual.

INSTALATIE ELECTRICA
De pornire si iluminare la 24 Volti conform cu normativa CE.

TURELA

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 1.1 m la 25.5 m. Inaltime maxima cap brat 27.5 m.

RIDICARE BRAT
Cilindru hidraulic cu efect dublu. Ridicare de la -2° la 79°.

ROTATIE TURELA
Rotatie continua la 360°. Motor hidraulic cu reductor cu reductie dubla epicicloidala.
Frana de rotatie automata cu discuri multiple.
Sistem de rotate libera. Roata/pinion zimtat intern.
Blocare manuala rotatie cu comanda din cabina de pilotaj.

TROLIU
Hidraulic. Motor hidraulic cu pistoane cuplat la reductor cu dubla reductie epicicloidala.
Tambur canelat.
Frana automata cu discuri multiple si valve 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
Distribuitorii hidraulici individuali garanteaza combinarea simultana a miscarilor macaralei. Sistem centralizat pentru control presiune hidraulica.

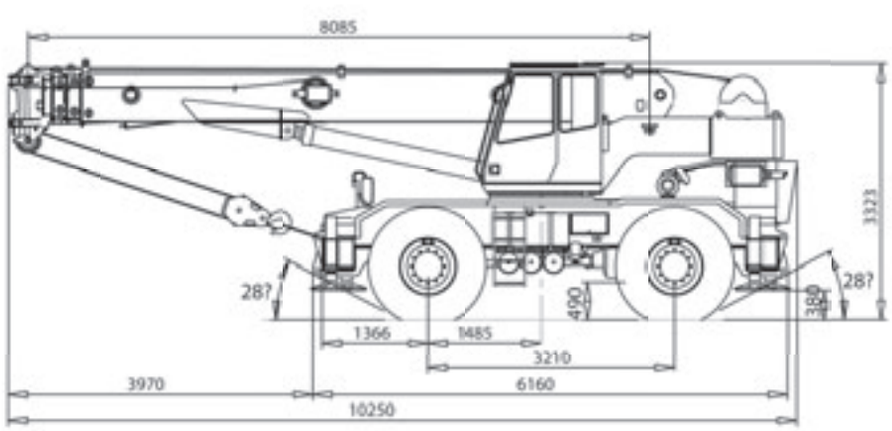
COMENZI MISCARI MACARA
Volan pentru comanda directie roti anterioare.
Buton electric pentru directie independenta roti posterioare.
Selector schimb de viteze , schimbare directie si frana de parcare.
Buton electric pentru comanda mers incet si rapid cu activare automata 2/4 roti conducatoare. Instrumente diagnoza motor.

DISPOZITIVE DE SIGURANTA
Limita urcare si coborare carlig. Valve de blocare pe toti cilindrii hidraulici.
Valve de presiune maxima pe totate circuitele hidraulice.

CONFIGURARE STABILIZATORI

ACCESORII LA CERERE
- Extensie inclinabila de 8 m
- Carlig cu bila 5.000 kg
- Bloc cu 1 scripete de 12.000 kg
- Troliu auxiliar tiraj 4.000 kg
- Far de lucru (cabina si sectiunea baza a bratului)
- Radiocomanda
- Dispozitiv reducere miscari *
- Incalzire independenta cabina *
- Aer conditionat
- Roata de rezerva 16.00x25

*Aparatura standard cf normelor CE



Dimensiuni (mm)

CHASSIS

CHASSIS
Heavy duty, all welded box type section frame.

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

ENGINE
CUMMINS Q S B 4.5, four cylinders turbocharged intercooler diesel engine, electronically controlled and water cooled.
Max power 113 kW at 2.200 rpm. Max torque 549 Nm at 1.500 rpm. Dry type air cleaner with safety cartridge and service indicator. Fuel tank capacity 200 l.

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

HYDRAULIC PUMPS
Three sections gear type hydraulic pump, driven from power-take-offs mounted on torque converter. Total pumps capacity 365 l/min. Oil tank capacity 430 l.

AXLES
Front: driving/steering axle with differential and planetary reduction solidly mounted to frame.
Rear: driving/steering axle with differential 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 over hydraulic pressure dual independent braking system, foot operated on all wheels. Parking: disk type, spring set, air released brake actuator acting on front axle.

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

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

SUPERSTRUCTURE

SUPERSTRUCTURE FRAME
Fabricated from high tensile steel plate.

BOOM
Four sections 8.1 to 25.5 m automatically synchronized fully powered telescopic boom. Max. boom head height 27.5 m.

BOOM ELEVATION
Single double-acting hydraulic cylinder. Elevation from -2° a + 79°.

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

MAIN HOIST
Hydraulic. Piston type hydraulic motor driving grooved hoist drum through double reduction gear unit. Spring applied, hydraulically 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 and free swing.

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

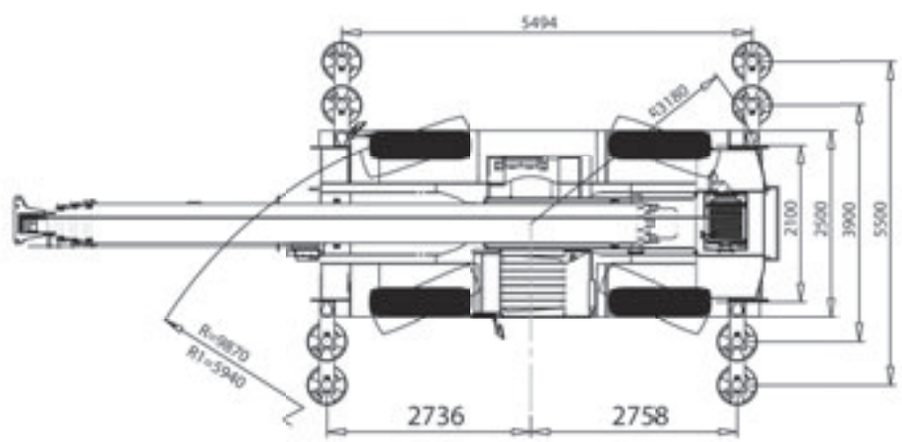
TRAVEL CONTROLS
Steering wheel for control of front steering axle. Electric switch for independent steering of rear axle. Trasmission gear selection, forward-reverse shift and parking brake control. Control switch for high-low range speeds with automatic 2 or 4 wheel drive selection. Master gauge for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

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

OUTRIGGER EXTENSION SENSING SYSTEM

OPTIONAL EQUIPEMENT
- 8.0 m offsetable extension
- Single hook 5.000 kg capacity
- Hookblock 12.000 kg
- Auxiliary hoist, max line pull 4.000 kg
- Work lights (on cab and base boom)
- Remote control
- Motion cut equipment*
- Electronic safe load indicator*
- Independent cab heather/defroster*
- Air conditioned
- Spare tyre 16.00 x 25

*Standard equipment for CE machine



R1:
4 roti directoare
4 steered wheels

Dimensiuni (mm)

CAPACITATI RIDICARE BRAT PRINCIPAL - LIFTING CAPACITIES TELESCOPIC BOOM

 8,1 m - 25,5 m

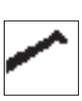
 100 %

 360°

 4,5 t

CE

m	8,1 m	14,0 m	19,8 m	23,8 m	25,5 m	m
3,0	30,0					**3,0**
3,5	26,2	19,0	12,5			**3,5**
4,0	22,5	19,0	12,5	11,7		**4,0**
4,5	20,2	18,5	12,5	11,7		**4,5**
5,0	18,0	18,0	11,7	10,8		**5,0**
6,0	14,5	14,6	11,1	9,9	8,2	**6,0**
7,0		12,5	10,5	8,5	7,7	**7,0**
8,0		9,3	8,4	7,4	7,2	**8,0**
9,0		7,5	7,5	6,6	6,4	**9,0**
10,0		6,3	6,3	5,8	5,7	**10,0**
11,0		5,4	5,4	5,2	5,1	**11,0**
12,0		4,9	4,9	4,7	4,6	**12,0**
13,0		4,0	4,2	4,2	4,2	**13,0**
14,0			3,7	3,7	3,7	**14,0**
15,0			3,2	3,2	3,2	**15,0**
16,0			2,8	2,8	2,8	**16,0**
17,0			2,5	2,5	2,5	**17,0**
18,0			2,2	2,2	2,2	**18,0**
19,0				2,0	2,0	**19,0**
20,0				1,8	1,8	**20,0**
21,0				1,6	1,6	**21,0**
22,0				1,4	1,4	**22,0**
23,0					1,2	**23,0**
24,0					1,1	**24,0**

 8,1 m - 19,8 m

 16.00 R 25

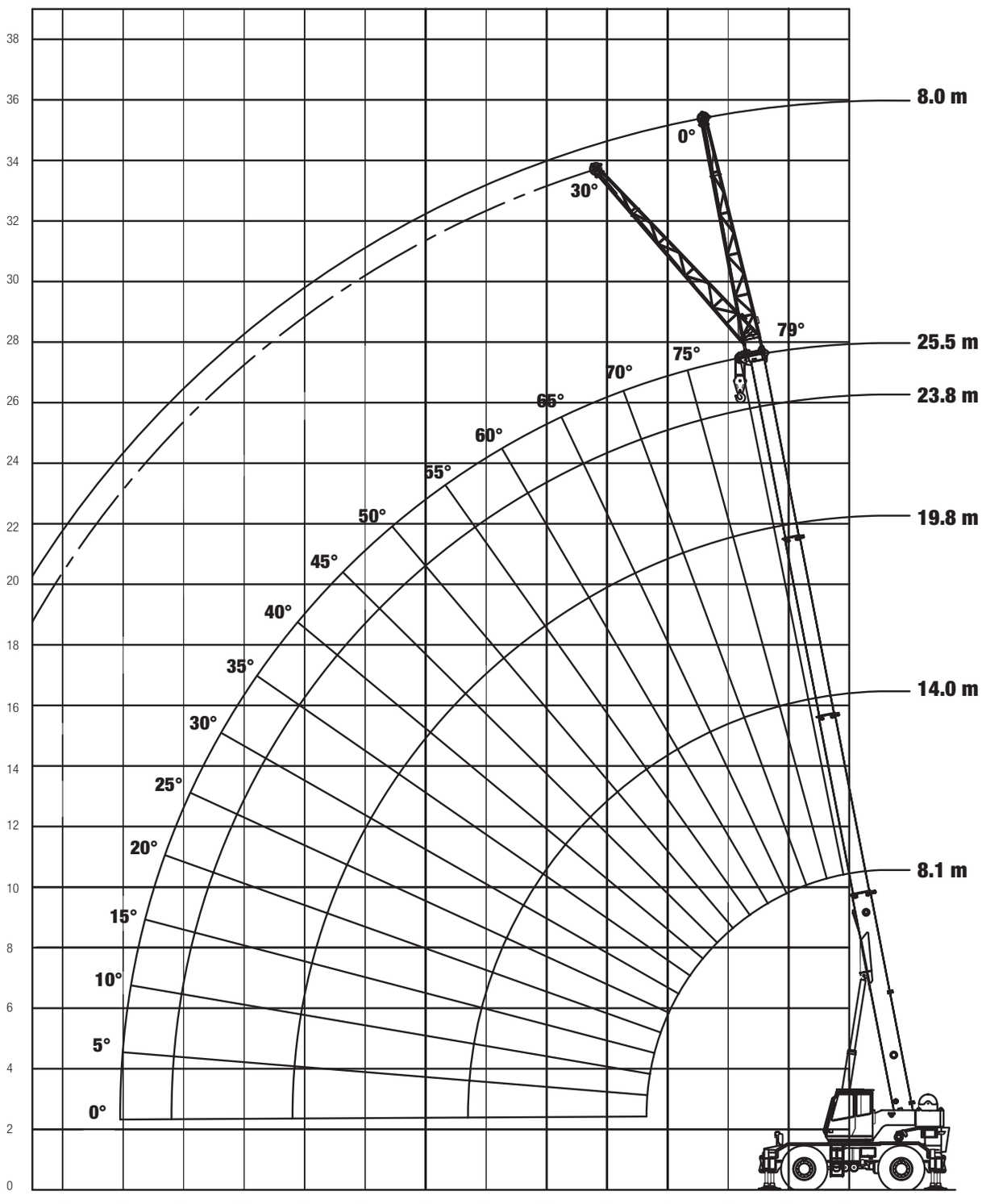
 360° / 0°

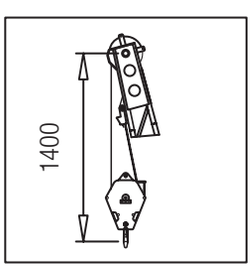
 4,5 t

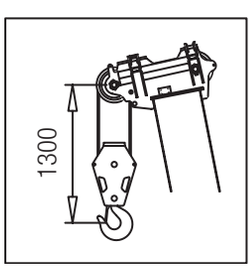
CE

m	0 km/h			0 km/h			3 km/h			m
	360°			0°			0°			
	8,1 m	14,0 m	19,8 m	8,1 m	14,0 m	19,8 m	8,1 m	14,0 m	19,8 m	
3,0	10,1	7,5	5,2	15,0			12,2			**3,0**
3,5	8,8	7,5	5,2	13,4	11,8	6,0	10,8	9,6	6,0	**3,5**
4,0	7,5	7,5	5,2	11,8	11,8	6,0	9,6	9,6	6,0	**4,0**
4,5	6,3	6,3	5,2	10,2	10,2	6,0	8,7	8,7	6,0	**4,5**
5,0	5,2	5,2	5,2	8,6	8,6	6,0	7,8	7,8	6,0	**5,0**
6,0	3,7	3,7	3,7	6,0	6,0	6,0	6,0	6,0	6,0	**6,0**
7,0		2,7	2,7		4,9	4,9		4,8	4,8	**7,0**
8,0		2,0	2,0		3,8	3,8		3,7	3,7	**8,0**
9,0		1,5	1,5		3,0	3,0		2,9	2,9	**9,0**
10,0		1,1	1,1		2,3	2,3		2,3	2,2	**10,0**
11,0			0,8			1,6			1,5	**11,0**
12,0						1,0			1,0	**12,0**

DIAGRAMA DE LUCRU - WORKING DIAGRAM







CAPACITATI RIDICARE EXTENSIE BRAT - LIFTING CAPACITIES BOOM EXTENSION

 8,1 m - 25,5 m

 7.6 / 8 m

 100 %

 360°

 4,5 t

CE

m	8,1 m		19,8 m		25,5 m		m
	8 m		8 m		8 m		
	0°	30°	0°	30°	0°	30°	
3,0	3,0						**3,0**
3,5	2,9						**3,5**
4,0	2,8						**4,0**
4,5	2,7						**4,5**
5,0	2,6		4,0				**5,0**
6,0	2,3	1,2	3,6		4,0		**6,0**
7,0	2,0	1,1	3,3	1,2	3,6		**7,0**
8,0	1,8	1,0	3,0	1,1	3,4	1,2	**8,0**
9,0	1,5	0,9	2,8	1,1	3,2	1,1	**9,0**
10,0	1,3	0,8	2,6	1,1	3,0	1,1	**10,0**
11,0	1,2	0,8	2,4	1,1	2,8	1,1	**11,0**
12,0		0,8	2,0	1,1	2,6	1,0	**12,0**
13,0		0,7	1,8	1,0	2,4	1,0	**13,0**
14,0			1,7	1,0	2,2	0,9	**14,0**
15,0			1,6	0,9	2,0	0,9	**15,0**
16,0			1,5	0,9	1,9	0,9	**16,0**
17,0			1,4	0,8	1,8	0,9	**17,0**
18,0			1,3	0,8	1,7	0,8	**18,0**
19,0			1,2	0,8	1,6	0,8	**19,0**
20,0				0,7	1,5	0,8	**20,0**
21,0				0,7	1,4	0,8	**21,0**
22,0					1,3	0,7	**22,0**
23,0						0,7	**23,0**
24,0						0,7	**24,0**
25,0						0,7	**25,0**

NOTE LA CAPACITATILE 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 fontale 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.

DATE TEHNICE - SPECIFICATIONS

Incarcatura pe axe Axle loads	1	2	Greutate totala Total weight
t	12,3	13,1	25,4

		1	2	3	R1	R2	R3	
km/h	4x4	3	5,5	16	3	5,5	16	70%
km/h	4x2	6	12	37	6	12	37	17%
		16.00 x 25						

Mecanism Mechanisms	Progresiv variabil Infinitely variable	Diametru/Lungime franghie Rope diameter / Rope length	Putere maxima Max.permissible line pull
1.	0 -80 m/min	15 mm x 145 m	39,2 kN
t	0 - 62 m/min	15 mm x 120 m	39,2 kN
	0 - 2,5 min^{-1}		
	-3° - +79°	circa 40 s - approx 40 s	
	8,1 m - 25,5 m	circa 55 s - approx 55 s	

Capacitate ridicare Lifting capacity	Nr de scripeti No of sheaves	Numar franghii No of lines	Greutate Weight
30 t	4	8	310 kg
12 t	1	3	180 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

Altitudine brat
Boom elevation

Carlig
Hook block

LOCATELLI

CRANE