



**ALL YOU
NEED
FOR LIFTING
AND HANDLING**

www.cessrl.com

HLM 500

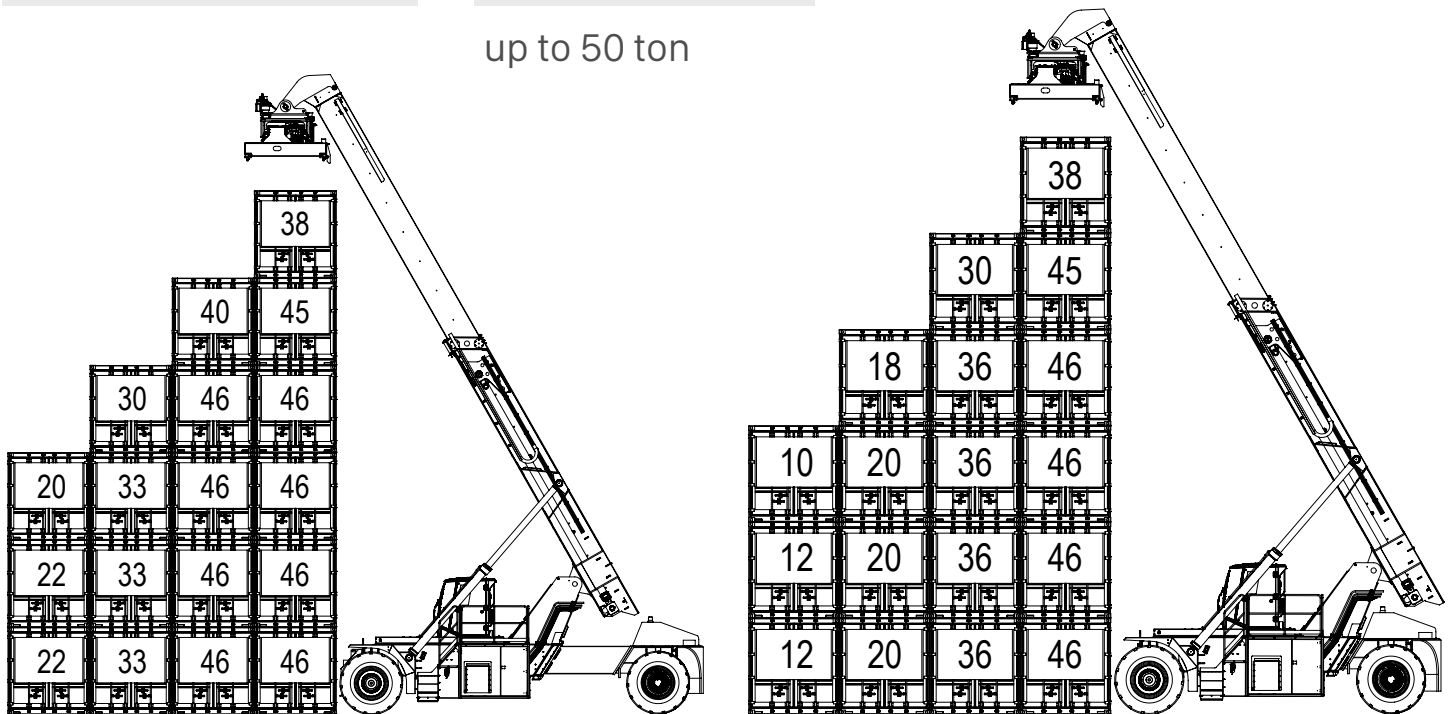
HEAVY LOAD MACHINE

CONTAINER HANDLING

Laden containers

Capacity

up to 50 ton



SPECIFICATIONS	Wheelbase		Y	mm	6,5	6,5
	Tyres	Size front		ins	18.00 -25	18.00 -33
	Lifting Capacity (1)(2)(3)	First Row/Second Row/Third Row		kg	46/32/17	50/38/21
	Load Centre	First Row/Second Row/Third Row	L1/L2/L3	mm	1780 / 3850 / 6400 /	
	Wheels	Number at Front/Rear			4 / 2	
DIMENSION	Lifting height		H3	mm	16063	
	Width of Spreader	20 ft/40 ft		mm	6042 / 12175	
	Side Tilting	Mechanical		Deg	+3° / -3°	
	Rotation	Hydraulic		Deg	+105° / -195°	
	Side Shifter	Max		mm	+800 / -800	
	Boom Angle	Min / Max		Deg	0° / 60°	
	Overall dimension	Lenght without boom	L3	mm	8.475	8.475
		Lenght with boom	L	mm	11.176	11.176
		Width	B	mm	4.200	
		Boom height, Min.	H1	mm	5.150	
		Boom height, Max.	H4	mm	18.650	
		Min. Dist. Spreader from Ground	H2	mm	1.800	
	Turning Radius	Inner/Router	R2/R1	mm	1613 / 9114	1613 / 9114
	Aisle for 90° stacking	Incl. 200 mm. Safety margin 20' 40'	J		12563 / 13349	12563 / 13349
	Stability (static)				EN 1459	
PERFORMANCE	Speed	Traveling F. R. Laden/unladen			20 / 22	
	Speed	Lifting : laden / unladen 1800 rpm		m/s	0,24 / 0,58	
	Speed	Lowering laden / unladen 1800 rpm		m/s	0,42 / 0,42	
	Drawbar pull	Max laden		kN	350	
	Gradeability	Max at 0 km / h - laden		%	21%	
WEIGHT	Gross vehicle weight	With spreader		kg	74.000	80.000
	Axle load - Front	Unladen		kg	39.400	39.500
		Laden		kg	103.900	110.300
	Axle load - rear	Unladen		kg	34.600	40.500
		Laden		kg	16.100	19.700
	Gross vehicle weight	Without spreader		kg	64.800	70.800
	Axle load - Front	Unladen		kg	26.500	26.500
	Axle load - rear	Unladen		kg	38.300	44.400
BRAKES CHASSIS	Track Front	Between centres - driven wheels	T1	mm	3065	
	Track Rear	Between centres - steering wheels	T2	mm	2960	
	Ground Clearance	Mid-way along the wheelbase	M1	mm	420	
	Foot brake System	Type/ brake wheels			wet brake / driven wheels	
	Parking brake	Type/ brake wheels			spring brake / driven wheel	
STEERING AND DRIVING SYSTEM	Steering System	Type			hydrostatic	
	Engine	Manufacturer type			VOLVO TAD871 EURO IV	
	Drive Axle	Type			KESSLER	
	Transmission System				hydrostatic continuous	
	Gears	N° forward and reverse gears		n°	3 + 3	
	Sound Level	Inside cabin			68 dB (A)	
HYDRAULIC SYSTEM	N° pump hydraulic system			n°	2	
	Pressure			bar/max	330	
	N° pump hydrostatic system			n°	1	
	Pressure			bar/max	450	

- (1) With spreader weight 9200 kg
(2) with piggyback lifting capacity is decreased by 4 ton
(3) with special option extendible chassis to increase capacity in distance

HEAVY LOAD MACHINE

BARGE INTERMODAL HANDLING

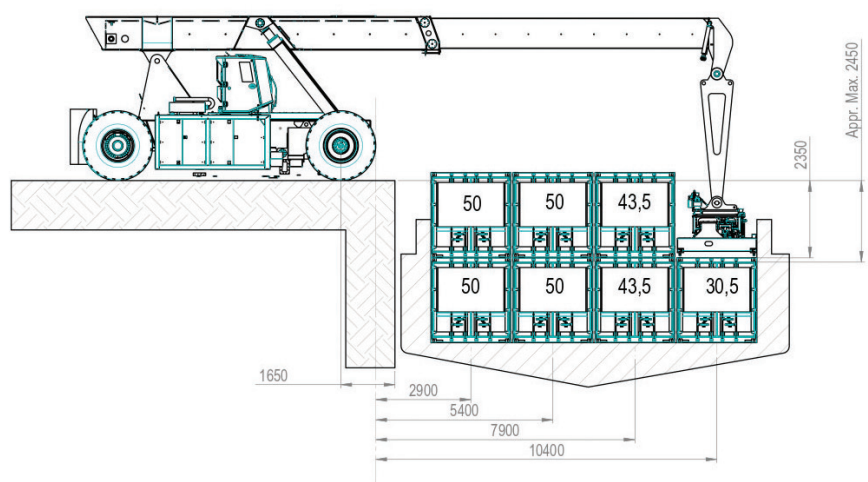
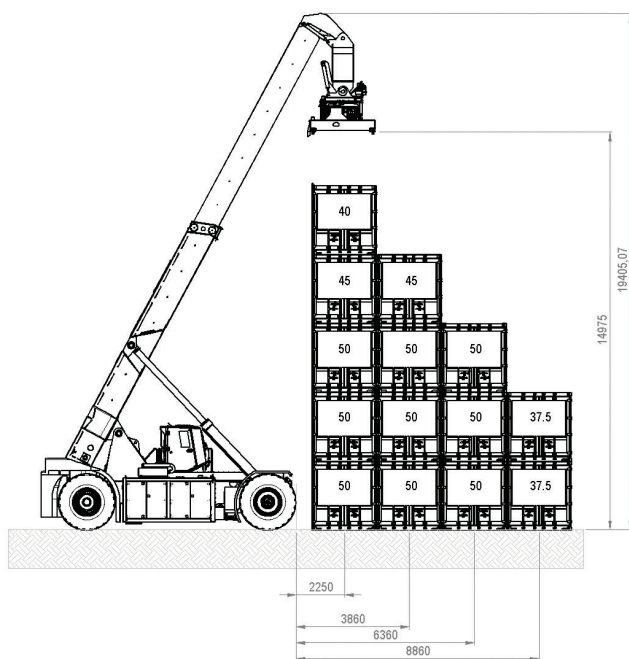
Capacity

up to 30 ton at 10 m

Distance

10,5 mt

Laden containers



SPECIFICATION	Wheelbase		Y	mm	7,2	9,2
	Tyres	Size front/rear		ins	24.00-35	
	Lifting Capacity	under spreader / under crane hook		t	50 /63	
	Load Centre	First Row/Second Row/Third Row	L1/L2/L3	mm	2900 / 5400 / 7900 / 10400	
	Lifting Capacity (1)	First /Second / third / four		t	50 / 50 / 43,5 / 30,5	
	Steering				Hydrostatic Steering	
	Wheels	Number at Front/Rear			4 / 2	
DIMENSIONS	Lifting Height		H3	mm	16.063	
	Width of Spreader	20 ft / 40 ft		mm	6042 / 12175	
	Side Tilting	Mechanical		Deg	+3° / -3°	
	Rotation	Hydraulic		Deg	+105° / - 195°	
	Side Shifter	Max.		mm	+800 / -800	
	Boom Angle	Min. / Max.		Deg	0° / 60°	
	Overall	Length	L	mm	14800	17300
	Overall	Width	B	mm	6.500	
	Overall	Min. Boom Height	H1	mm	5.000	
	Height	Max. Boom Height	H4	mm	18.700	
	Spreader groundclearance	Min. Dist. Spreader from Ground	H2	mm	1.850	
	Turning Radius	Inner / Outer	R2 / R1	mm	1900/9000	2800 /12500
	Aisle for 90°-Stacking	Incl. 200mm. Safety margin 20' / 40'	J		14.650 / 15.400	
	Stability (static)				EN 1459	
PERFORMANCE	Speed	Continuous		km/h	0-17	
	Lifting speed	Laden / Unladen		m/s	0.24 / 0.58	
	Lowering speed	Laden / Unladen		m/s	0.42 / 0.42	
	Drawbar pull	Max. Laden		kN	350	
	Gradeability	Max. at 0 km/h - laden		%	12,5%	
WEIGHT	Gross Vehicle Weight	With Spreader		kg	120.000	
	Axle Load - Front	Unladen		kg	60.000	64.400
		Laden		kg	136.000	133.000
	Axle Load - Rear	Unladen		kg	58.000	54.300
		Laden		kg	32.400	35.700
	Gross Vehicle Weight	Without Spreader		kg	108.000	
CHASSIS BRAKES	Ground Clearance	Mid-way along the Wheelbase	M1	mm	400	
	Service Brake System	Type			Disk Brake on Front Wheels	
	Parking Brake	Type			Inside Wheel Motors	
STEERING SYSTEM AND DRIVING SYSTEM	Steering System	Type			Hydrostatic	
	Engine	Manufacturer Type			Volvo TAD1172VE Tier IV	
	Drive System	Type			Wheel Motors	
	Transmission System				Bosch Rexroth Wheel Motors	
	Gears	N° Forward and Reverse Gears		n°	1 continuous	
	Sound Level	Inside Cabin		dB (A)	68	
HYDRAULIC SYSTEM	Pump Hydraulic System			n°	2	
	Pressure			bar max.	330	
	Hydraulic Pump Max. Flow Rate			l/min	500	
	N° Pump Hydrostatic System			n°	1	
	Pressure			bar max.	450	

HLM 1800

HEAVY LOAD MACHINE

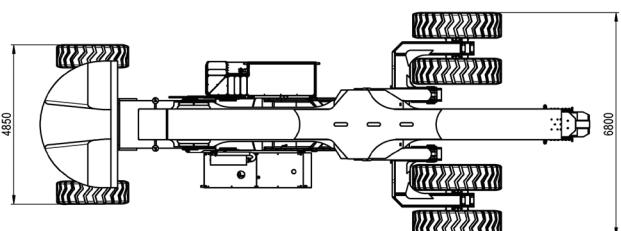
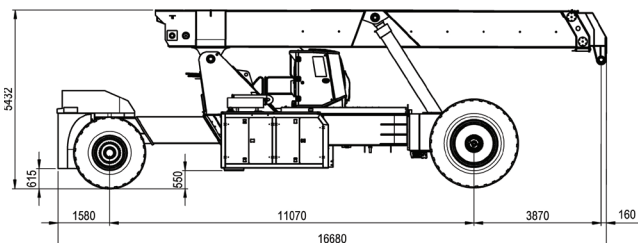
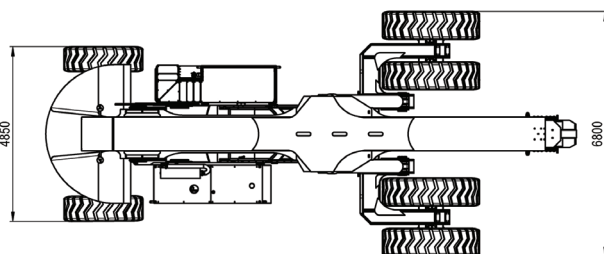
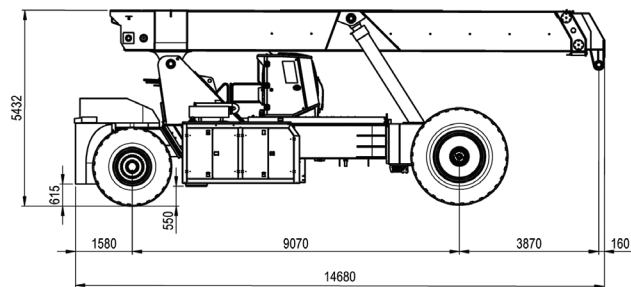
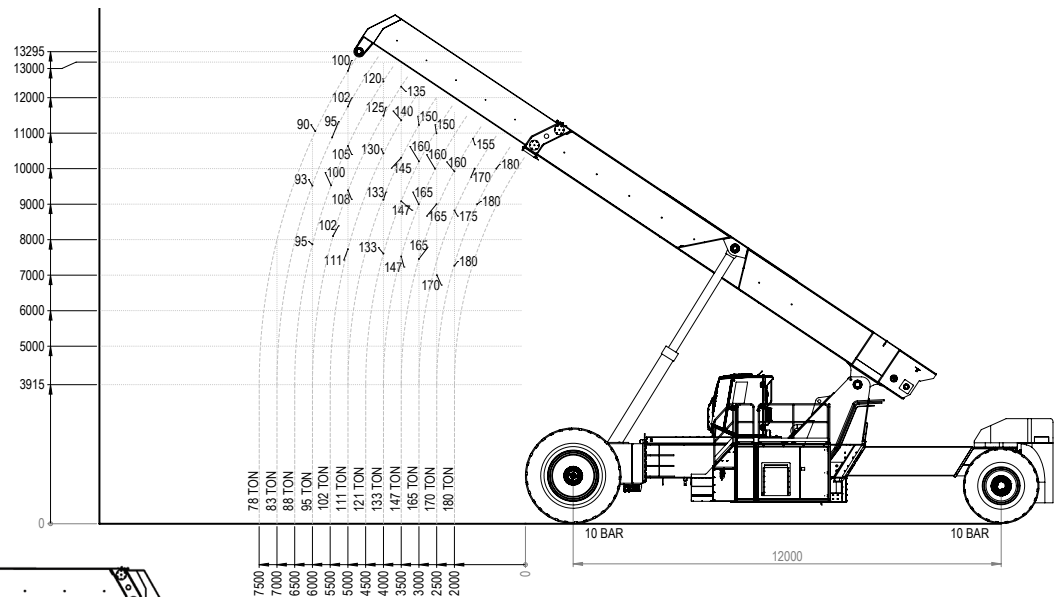
INDUSTRIAL HANDLING

Capacity

up to 200 ton

Pick and carry

at 7km/h



SPECIFICATIONS	Wheelbase		Y	m	9	12
	Lifting Capacity			t	180	
	Load Center from front tyre		L1	mm	1.000	
	Gross Vehicle Weight	Without Attachment		kg	120.000	
DIMENSIONS	Lifting Height		H3	mm	12.000	
	Overall Dimension	Lenght Without Boom	L3	mm	15.030	
		Width	B	mm	6.500	
		Min. Boom Height	H1	mm	5.638	
		Max. Boom Height	H4	mm	14.100	
	Turning Radius	Inner / Outer	R2 / R1	mm	2.800 / 11.600	
	Stability (static)				EN 1459	
PERFORMANCE	Speed unloaded	Continuous		km/h	0-12	
	Speed loaded	Continuous		km/h	0-7	
		Lifting Laden / Unladen		m/s	0.24 / 0.58	
		Lowering Laden / Unladen		m/s	0.42 / 0.42	
	Drawbar pull	Max. Laden		kN	350	
	Gradeability	Max. at 0 km/h - laden		%	21%	
WEIGHTS	Axle Load - Front	Unladen		kg	54.900	59.500
		Max Laden at 1,5 m		kg	282.700	285.000
	Axle Load - Rear	Unladen		kg	72.800	68.200
		Max Laden at 1,5 m		kg	19.000	22.600
	Gross Vehicle Weight	Without Attachment		kg	127.700	
	ground pressure			kg/cm ²	6,5	
TYRE BRAKES CHASSIS	Tyres	Number at Front / Rear (*driven)			4* / 2	
	Tyre Size	Front & Rear		ins	29:00-49/24:00-35	
	Wheelbase		Y	mm	12.000	
	Ground Clearance	Mid-way along the Wheelbase	M1	mm	570	
	Service Brake System	Type			Disk Brake on Front Wheels	
	Parking Brake	Type			Inside Wheel Motors	
STEERING AND DRIVE SYSTEM	Engine	Manufacturer Type			Volvo TAD873VE Tier IV	
	Alternator	Type - Rating		A	100	
	Battery	Voltage / Capacity		V / Ah	2 x 12 / 200	
	Drive System	Type			Wheel Motors	
	Steering				Hydrostatic Steering	
	Transmission System				Bosch Rexroth Wheel Motors	
	Gears	N° Forward and Reverse Gears		n°	1 continuous	
	Hydraulic pressure	For Attachment		bar	140	
	Sound Level	Inside Cabin		dB (A)	68	
HYDRAULIC SYSTEM	N° Pump Hydraulic System			n°	2	
	Pressure			bar max.	330	
	Hydraulic Pump Max. Flow Rate			l/min	500	
	N° Pump Hydrostatic System			n°	1	
	Pressure			bar max.	450	

- ◆ Personalized attachments
- ◆ Modular assembly design for easy container shipment
- ◆ Lateral engine box for easy maintenance access
- ◆ Components produced by Europe's best manufacturers
- ◆ Movable rear counterweight for increased load capacity and drive in tight spaces with same machine

FUTURISTIC HYDROSTATIC DRIVES:

Reach Stacker

Hydrostatic Bosch system combined with Dana gear box 3 gears, continuous 0 to 22 km/H

Barge handling

Hydrostatic Bosch system with front axle , 4 wheels motor drive, Gear Planetary Hydraulic Motor and hydraulic differential , continuous from 0 to 22 km/H

Pick and Carry industrial handling

Hydrostatic Bosch system with front axle , 4 wheels motor drive, Gear Planetary Hydraulic Motor and hydraulic differential , continuous from 0 to 22 km/H

ALL CHARACTERISED BY:

- ◆ Fully automatic shifting
- ◆ Outstanding shift quality
- ◆ High productivity
- ◆ Reduced fuel consumption
- ◆ Low noise emission
- ◆ Hydrostatic brake system
- ◆ Field proven and reliable



CES Srl
VAT NO. IT 11918090017
www.cessrl.com
info@cessrl.com

Administrative headquarter
Via Ettore Perrone, 14
10122 Torino
Italy

Production site
via Casetta, 241/b
37015 Domegliara
Verona - Italy