



CONTAINERHANDLING EQUIPMENT & SOLUTIONS

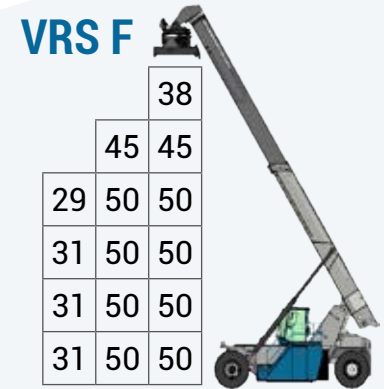
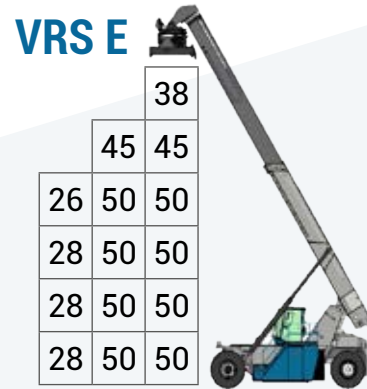
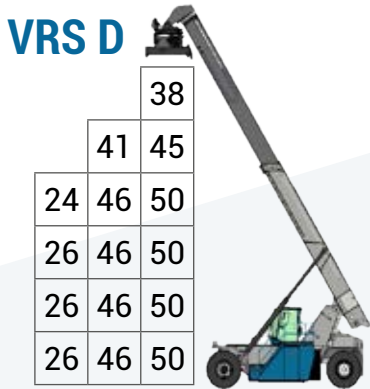
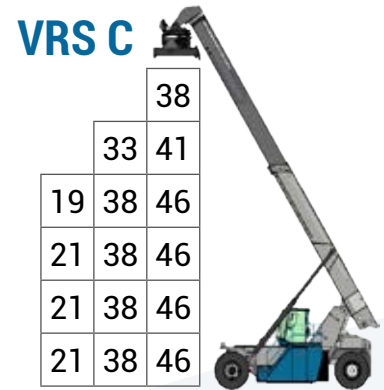
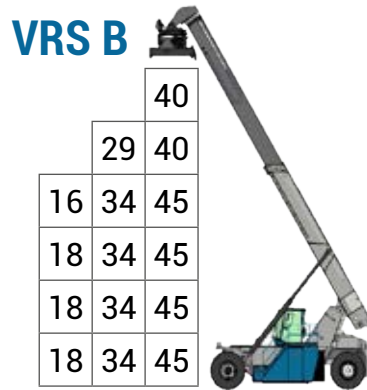
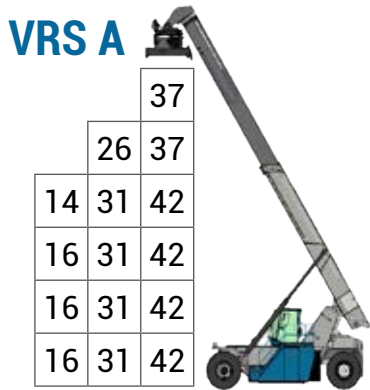


**DATASHEET
VRS SERIES A - F**

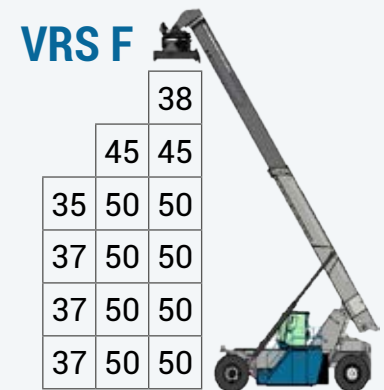
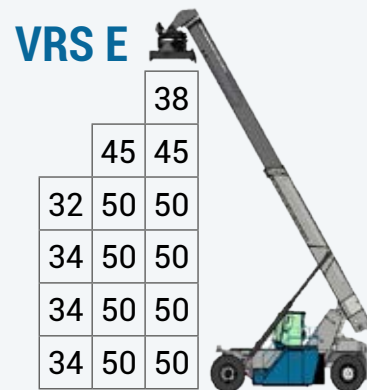
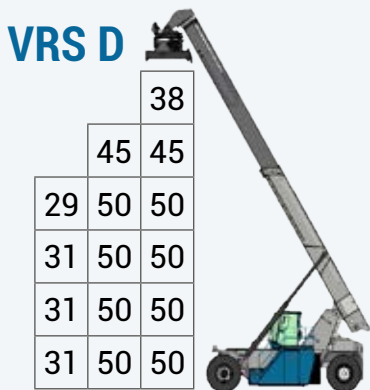
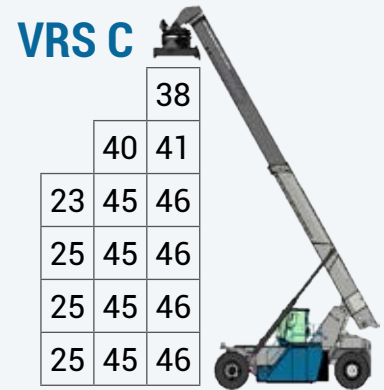
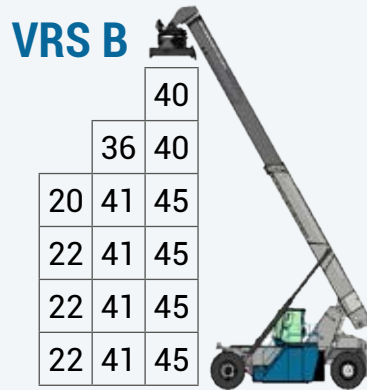
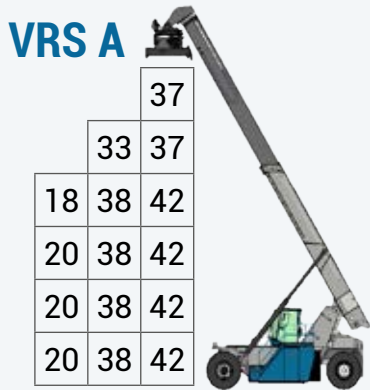
VRS VERSATILE REACH STACKER

Lifting capacities at wheelbase 8.5m

WITHOUT STABILIZERS



WITH STABILIZERS



All capacities are based on containers 8'6" height, stacking height of 9'6" containers is one layer less. Capacities with crane hook are +5t, capacities with piggyback spreader are -3t

SPECIFICATION	Manufacturer				CES		CES	
	Model				VRS A		VRS B	
	Wheelbase		Y	m	6.5	8.5	6.5	8.5
	Lifting Capacity	1st / 2nd / 3rd Row		t	42 / 27 / 13	42 / 31 / 16	45 / 30 / 14	45 / 34 / 18
	Load Center	1st / 2nd / 3rd Row	L1/L2/L3	mm	1.780 / 3.850 / 6.400		1.780 / 3.850 / 6.400	
	Steering				Hydrostatic Steering		Hydrostatic Steering	

DIMENSIONS	Lifting Height		H3	mm	16.063		16.063	
	With of Spreader	20 ft		mm	6.042		6.042	
		40 ft		mm	12.175		12.175	
	Side Tilting	Mechanical		Deg	+3° / -3°		+3° / -3°	
	Rotation	Hyraulical		Deg	+105° / -195°		+105° / -195°	
	Side Shifter	Max.		mm	+800 / -800		+800 / -800	
	Boom Angle	Min. / Max.		Deg	0° / 60°		0° / 60°	
	Overall Dimension	Lenght Without Boom	L3	mm	8.475	10.475	8.475	10.475
		Width	B	mm	4.187		4.187	
		Min. Boom Height	H1	mm	5.150		5.150	
		Max. Boom Height	H4	mm	18.650		18.650	
		Height - Top of Cab	H5	mm	3.966		3.966	
		Seat Height	H	mm	2.808		2.808	
		Min. Dist. Speader from Ground	H2	mm	1.800		1.800	
	Turning Radius	Inner / Outer	R2 / R1	mm	1.613 / 9.114	2.771 / 11.422	1.613 / 9.114	2.771 / 11.422
Aisle for 90°-Stacking	Incl. 200mm. Safety margin 20' / 40'	J		12.563 / 13.349	14.872 / 15.099	12.563 / 13.349	14.872 / 15.099	
Stability (static)				EN 1459		EN 1459		

PERFORMANCE	Speed	Traveling F. R. Laden / Unladen		km/h	20 / 22		20 / 22	
		Lifting Laden / Unladen 1.800rpm		m/s	0,24 / 0,58		0,24 / 0,58	
		Lowering Laden / Unladen 1.800rpm		m/s	0,42 / 0,42		0,42 / 0,42	
	Drawbar pull	Max. Laden		kN	350		350	
	Gradeability	Max. at 0 km/h - laden		%	21%		21%	

WEIGHT	Gross Vehicle Weight	With Spreader		kg	69.000		71.000	
	Axle Load - Front	Unladen		kg	39.400	43.600	39.400	43.600
		Laden		kg	98.400	98.500	102.600	102.400
	Axle Load - Rear	Unladen		kg	29.600	25.500	31.600	27.500
		Laden		kg	12.700	12.500	13.500	13.600
Gross Vehicle Weight	Without Spreader		kg	59.800		61.800		

TYRE BRAKES CHASSIS	Tyres	Number at Front / Rear (*driven)			4* / 2		4* / 2	
	Tyre Type	Front & Rear			Pneumatic		Pneumatic	
	Tyre Size	Front & Rear		ins	18.00-25		18.00-25	
	Wheelbase		Y	mm	6.5 - 8.5		6.5 - 8.5	
	Track Front	Between Centers - Driven Wheels	T1	mm	3.065		3.065	
	Track Rear	Between Centers - Steering Wheels	T2	mm	2.960		2.960	
	Ground Clearance	Mid-way along the Wheelbase	M1	mm	420		420	
	Service Brake System	Type			Wet Disk Brake on Driven Wheels		Wet Disk Brake on Driven Wheels	
	Parking Brake	Type			Spring Brake on Driven Wheels		Spring Brake on Driven Wheels	

STEERING SYSTEM AND DRIVING SYSTEM	Steering System	Type			Hydrostatic		Hydrostatic		
	Engine	Manufacturer Type			Volvo TAD873VE Tier IV		Volvo TAD873VE Tier IV		
		Rating - DIN 6271		Kw / Hp	235 / 320		235 / 320		
		Rated Speed		RPM max.	1.700		1.700		
		Peak Torque - at Engine Speed		Nm/RPM	1.424 / 1.500		1.424 / 1.500		
		Number Cylinder - Displacement		cm³	6 / 7.700		6 / 7.700		
		Compression rate			17.5 : 1		17.5 : 1		
		Fuel Consumption (average)		l/h	10 - 14		10 - 14		
	Alternator	Type - Rating		A	100		100		
	Battery	Voltage / Capacity		V / Ah	2 x 12 / 200		2 x 12 / 200		
	Drive Axle	Type			KESSLER		KESSLER		
	Transmission System				Hydrostatic Continuous		Hydrostatic Continuous		
			N° Forward and Reverse Gears		n°	3 + 3		3 + 3	
			1 > 2 Gear		km/h	4		4	
		2 > 3 Gear		km/h	9		9		
Hydraulic pressure	For Attachment		bar	140		140			
Sound Level	Inside Cabin		dB (A)	68		68			

	N° Pump Hydraulic System		n°	2		2	
	Pressure		bar max.	330		330	
	Hydraulic Pump Max. Flow Rate		l/min	500		500	
	N° Pump Hydrostatic System		n°	1		1	
	Pressure		bar max.	450		450	

SPECIFICATION	Manufacturer				CES		CES		
	Model				VRS C		VRS D		
	Wheelbase		Y	m	6.5	8.5	6.5	8.5	
	Lifting Capacity	1st / 2nd / 3rd Row		t	46 / 32 / 17	46 / 38 / 21	50 / 38 / 21	50 / 46 / 26	
	Load Center	1st / 2nd / 3rd Row	L1/L2/L3	mm	1.780 / 3.850 / 6.400		1.780 / 3.850 / 6.400		
	Steering				Hydrostatic Steering		Hydrostatic Steering		
DIMENSIONS	Lifting Height		H3	mm	16.063		16.173		
	With of Spreader	20 ft		mm	6.042		6.042		
		40 ft		mm	12.175		12.175		
	Side Tilting	Mechanical		Deg	+3° / -3°		+3° / -3°		
	Rotation	Hyraulical		Deg	+105° / -195°		+105° / -195°		
	Side Shifter	Max.		mm	+800 / -800		+800 / -800		
	Boom Angle	Min. / Max.		Deg	0° / 60°		0° / 60°		
	Overall Dimension	Lenght Without Boom	L3	mm	8.475	10.475	8.475	10.475	
		Width	B	mm	4.187		4.187		
		Min. Boom Height	H1	mm	5.150		5.260		
		Max. Boom Height	H4	mm	18.650		18.760		
		Height - Top of Cab	H5	mm	3.966		4.076		
		Seat Height	H	mm	2.808		2.918		
		Min. Dist. Speader from Ground	H2	mm	1.800		1.910		
	Turning Radius	Inner / Outer	R2 / R1	mm	1.613 / 9.114	2.771 / 11.422	1.613 / 9.114	2.771 / 11.422	
Aisle for 90°-Stacking	Incl. 200mm. Safety margin 20' / 40'	J		12.563 / 13.349	14.872 / 15.099	12.563 / 13.349	14.872 / 15.099		
Stability (static)				EN 1459		EN 1459			
PERFORMANCE	Speed	Traveling F. R. Laden / Unladen		km/h	20 / 22		20 / 22		
		Lifting Laden / Unladen 1.800rpm		m/s	0,24 / 0,58		0,24 / 0,58		
		Lowering Laden / Unladen 1.800rpm		m/s	0,42 / 0,42		0,42 / 0,42		
	Drawbar pull	Max. Laden		kN	350		350		
	Gradeability	Max. at 0 km/h - laden		%	21%		21%		
WEIGHT	Gross Vehicle Weight	With Spreader		kg	74.000		80.000		
	Axle Load - Front	Unladen		kg	39.400	43.500	39.500	43.600	
		Laden		kg	103.900	103.700	110.300	109.600	
	Axle Load - Rear	Unladen		kg	34.600	30.500	40.500	36.400	
		Laden		kg	16.100	16.300	19.700	20.500	
Gross Vehicle Weight	Without Spreader		kg	64.800		70.800			
TYRE BRAKES CHASSIS	Tyres	Number at Front / Rear (*driven)			4* / 2		4* / 2		
	Tyre Type	Front & Rear			Pneumatic		Pneumatic		
	Tyre Size	Front & Rear		ins	18.00-25		18.00-33		
	Wheelbase		Y	mm	6.5 - 8.5		6.5 - 8.5		
	Track Front	Between Centers - Driven Wheels	T1	mm	3.065		3.065		
	Track Rear	Between Centers - Steering Wheels	T2	mm	2.960		2.960		
	Ground Clearance	Mid-way along the Wheelbase	M1	mm	420		530		
	Service Brake System	Type			Wet Disk Brake on Driven Wheels		Wet Disk Brake on Driven Wheels		
	Parking Brake	Type			Spring Brake on Driven Wheels		Spring Brake on Driven Wheels		
STEERING SYSTEM AND DRIVING SYSTEM	Steering System	Type			Hydrostatic		Hydrostatic		
	Engine	Manufacturer Type			Volvo TAD873VE Tier IV		Volvo TAD873VE Tier IV		
		Rating - DIN 6271		Kw / Hp	235 / 320		235 / 320		
		Rated Speed		RPM max.	1.700		1.700		
		Peak Torque - at Engine Speed		Nm/RPM	1.424 / 1.500		1.424 / 1.500		
		Number Cylinder - Displacement		cm³	6 / 7.700		6 / 7.700		
		Compression rate			17.5 : 1		17.5 : 1		
		Fuel Consumption (average)		l/h	10 - 14		10 - 14		
	Alternator	Type - Rating		A	100		100		
	Battery	Voltage / Capacity		V / Ah	2 x 12 / 200		2 x 12 / 200		
	Drive Axle	Type			KESSLER		KESSLER		
	Transmission System				Hydrostatic Continuous		Hydrostatic Continuous		
			N° Forward and Reverse Gears		n°	3 + 3		3 + 3	
			1 > 2 Gear		km/h	4		4	
		2 > 3 Gear		km/h	9		9		
Hydraulic pressure	For Attachment		bar	140		140			
Sound Level	Inside Cabin		dB (A)	68		68			
	N° Pump Hydraulic System			n°	2		2		
	Pressure			bar max.	330		330		
	Hydraulic Pump Max. Flow Rate			l/min	500		500		
	N° Pump Hydrostatic System			n°	1		1		
Pressure			bar max.	450		450			

SPECIFICATION	Manufacturer			CES		CES			
	Model			VRS E		VRS F			
	Wheelbase		Y	m	6.5	8.5	6.5	8.5	
	Lifting Capacity	1st / 2nd / 3rd Row			t	50 / 41 / 23	50 / 50 / 28	50 / 45 / 25	50 / 50 / 31
	Load Center	1st / 2nd / 3rd Row	L1/L2/L3		mm	1.780 / 3.850 / 6.400		1.780 / 3.850 / 6.400	
	Steering					Hydrostatic Steering		Hydrostatic Steering	

DIMENSIONS	Lifting Height		H3	mm	16.173		16.173		
	With of Spreader	20 ft		mm	6.042		6.042		
		40 ft		mm	12.175		12.175		
	Side Tilting	Mechanical		Deg	+3° / -3°		+3° / -3°		
	Rotation	Hyraulical		Deg	+105° / -195°		+105° / -195°		
	Side Shifter	Max.		mm	+800 / -800		+800 / -800		
	Boom Angle	Min. / Max.		Deg	0° / 60°		0° / 60°		
	Overall Dimension	Lenght Without Boom	L3		mm	8.475	10.475	8.475	10.475
		Width	B		mm	4.187		4.187	
		Min. Boom Height	H1		mm	5.260		5.260	
		Max. Boom Height	H4		mm	18.760		18.760	
		Height - Top of Cab	H5		mm	4.076		4.076	
		Seat Height	H		mm	2.918		2.918	
		Min. Dist. Speader from Ground	H2		mm				
	Turning Radius	Inner / Outer	R2 / R1		mm	1.613 / 9.114	2.771 / 11.422	1.613 / 9.114	2.771 / 11.422
Aisle for 90°-Stacking	Incl. 200mm. Safety margin 20' / 40'	J			12.563 / 13.349	14.872 / 15.099	12.563 / 13.349	14.872 / 15.099	
Stability (static)					EN 1459		EN 1459		

PERFORMANCE	Speed	Traveling F. R. Laden / Unladen		km/h	20 / 22		20 / 22	
		Lifting Laden / Unladen 1.800rpm		m/s	0,24 / 0,58		0,24 / 0,58	
		Lowering Laden / Unladen 1.800rpm		m/s	0,42 / 0,42		0,42 / 0,42	
	Drawbar pull	Max. Laden		kN	350		350	
	Gradeability	Max. at 0 km/h - laden		%	21%		21%	

WEIGHT	Gross Vehicle Weight	With Spreader		kg	83.000		86.000	
	Axle Load - Front	Unladen		kg	39.500	43.600	39.500	43.600
		Laden		kg	110.300	109.500	110.300	109.500
	Axle Load - Rear	Unladen		kg	43.600	39.400	46.600	42.400
		Laden		kg	22.700	23.500	25.700	26.500
	Gross Vehicle Weight	Without Spreader		kg	73.800		76.800	

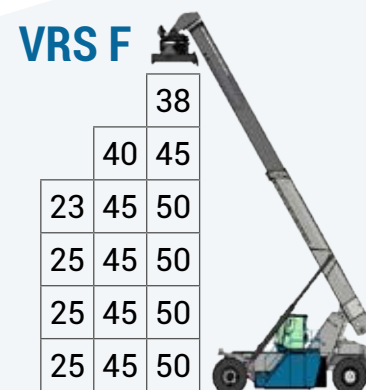
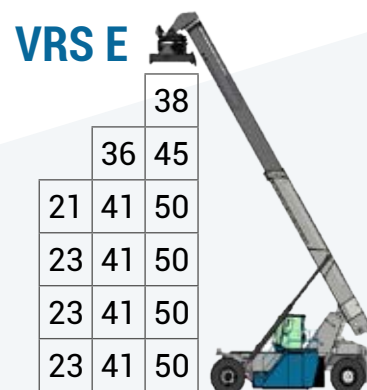
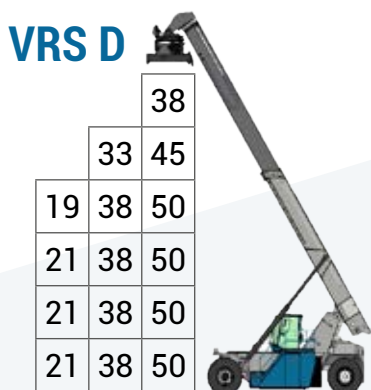
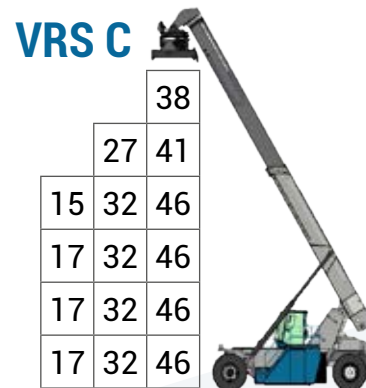
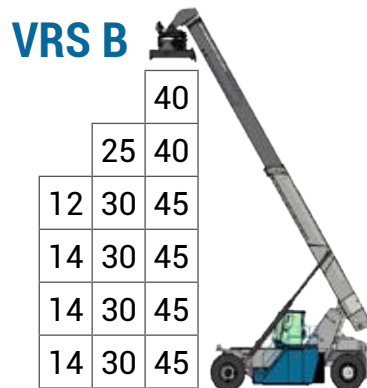
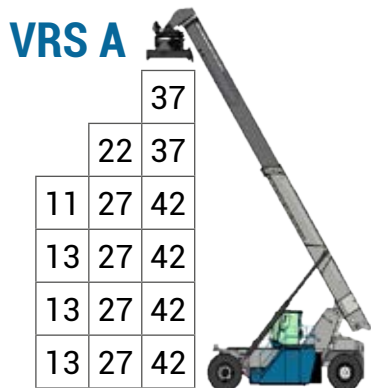
TYRE BRAKES CHASSIS	Tyres	Number at Front / Rear (*driven)			4* / 2		4* / 2		
	Tyre Type	Front & Rear			Pneumatic		Pneumatic		
	Tyre Size	Front & Rear		ins	18.00-33		18.00-33		
	Wheelbase		Y	mm	6.5 - 8.5		6.5 - 8.5		
	Track Front	Between Centers - Driven Wheels	T1	mm	3.065		3.065		
	Track Rear	Between Centers - Steering Wheels	T2	mm	2.960		2.960		
	Ground Clearance	Mid-way along the Wheelbase	M1	mm	530		530		
	Service Brake System	Type				Wet Disk Brake on Driven Wheels		Wet Disk Brake on Driven Wheels	
	Parking Brake	Type				Spring Brake on Driven Wheels		Spring Brake on Driven Wheels	

STEERING SYSTEM AND DRIVING SYSTEM	Steering System	Type			Hydrostatic		Hydrostatic		
	Engine	Manufacturer Type			Volvo TAD873VE Tier IV		Volvo TAD873VE Tier IV		
		Rating - DIN 6271		Kw / Hp	235 / 320		235 / 320		
		Rated Speed		RPM max.	1.700		1.700		
		Peak Torque - at Engine Speed		Nm/RPM	1.424 / 1.500		1.424 / 1.500		
		Number Cylinder - Displacement		cm³	6 / 7.700		6 / 7.700		
		Compression rate			17.5 : 1		17.5 : 1		
		Fuel Consumption (average)		l/h	10 - 14		10 - 14		
		Alternator	Type - Rating		A	100		100	
	Battery	Voltage / Capacity		V / Ah	2 x 12 / 200		2 x 12 / 200		
	Drive Axle	Type			KESSLER		KESSLER		
	Transmission System					Hydrostatic Continuous		Hydrostatic Continuous	
			N° Forward and Reverse Gears		n°	3 + 3		3 + 3	
			1 > 2 Gear		km/h	4		4	
			2 > 3 Gear		km/h	9		9	
Hydraulic pressure	For Attachment		bar	140		140			
Sound Level	Inside Cabin		dB (A)	68		68			

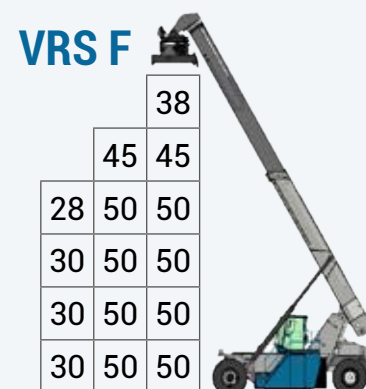
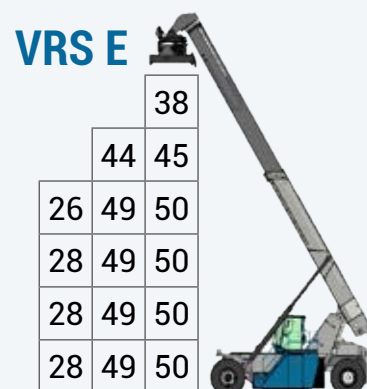
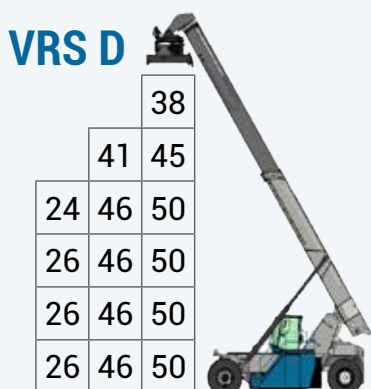
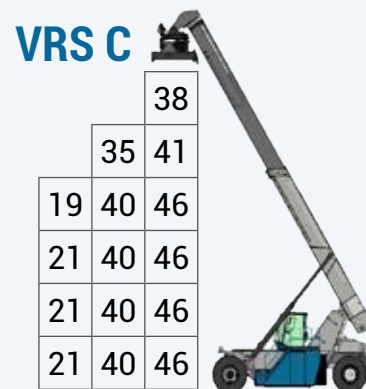
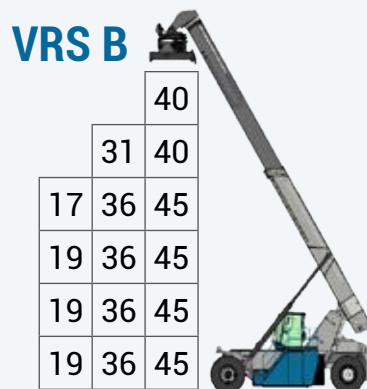
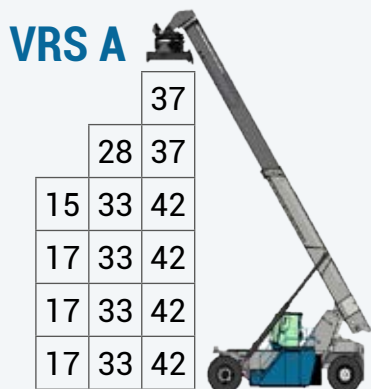
	N° Pump Hydraulic System			n°	2		2	
	Pressure			bar max.	330		330	
	Hydraulic Pump Max. Flow Rate			l/min	500		500	
	N° Pump Hydrostatic System			n°	1		1	
	Pressure			bar max.	450		450	

Lifting capacities at wheelbase 6.5m

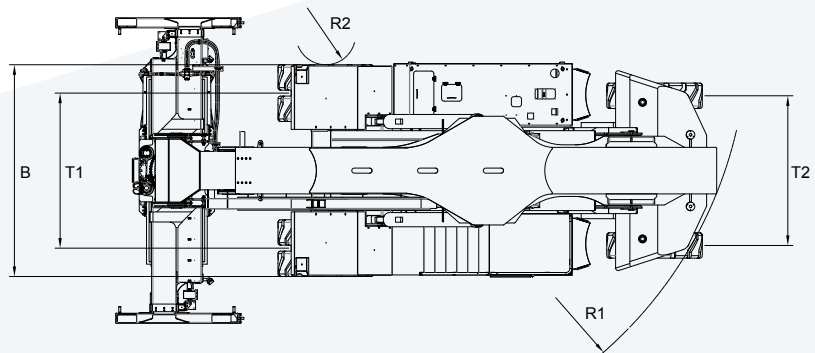
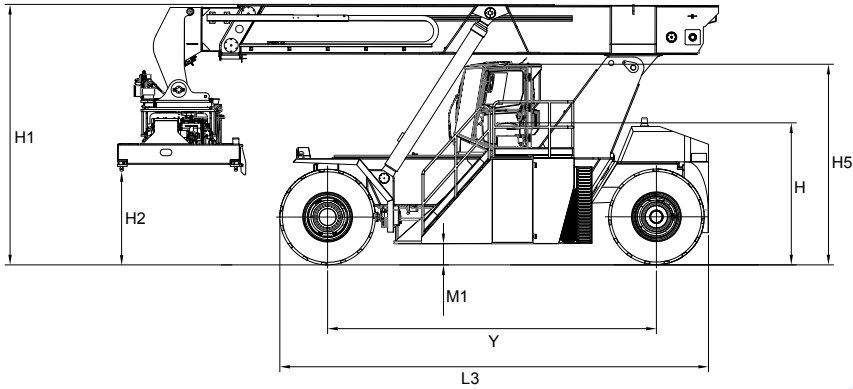
WITHOUT STABILIZERS



WITH STABILIZERS



All capacities are based on containers 8'6" height, stacking height of 9'6" containers is one layer less.
 Capacities with crane hook are +5t, capacities with piggyback spreader are -3t



The manufacturer reserves the right to make changes for any reason



SALES & SERVICE

CES Containerhandling
Equipment & Solutions GmbH
Rudolf-Diesel-Str. 2
76694 Forst / Germany
+49 7251 3657-0
info@ces-gmbh.eu



CEO: Nicolas Huthloff



PRODUCTION

CES Italy Srl
Via Casetta, 241/A
37015 Domegliara (VR) / Italy
info@ces-italy.com



CEO: Robert Huthloff