

The Rocla Boomerang series of reach trucks have been designed to meet the demands of the market. Boomerang reach trucks are built for hard work. They provide operators with complete control and easy truck maintenance, as well as being pleasing to the eye. One of the most important objectives in developing this series has in attention to driver ergonomics, with particular focus on ease of control, comfort and operator visibility.



Rocla

S16/S20

Reach trucks

- Advanced control with AC technology
- Excellent ergonomics with Boomerang operator interface
- Easy maintenance with clear access due to swing-open cabin design
- Comfortable driving position with high specification cabin
- Controlled performance with individually adjustable operating characteristics
- Agility and safety with progressive steering
- High operator visibility thanks to the mast and overhead guard design

ROCLA BOOMERANG S16/20

IDENTIFICATION				
1.1	Manufacturer		Rocla Oyj	Rocla Oyj
1.2	Model		S16	S20
1.3	Power source		Electric	Electric
1.4	Operating mode (pedestrian, stand-on, sit on)		Sit-on	Sit-on
1.5	Nominal capacity / load	Q [kg]	1600	2000
1.6	Load centre	c [mm]	600	600
1.8	Load wheel axle to fork face (forks lowered)	x [mm]	See table	See table
1.9	Wheelbase (forks lowered)	y [mm]	1400	1500
WEIGHTS				
2.1	Truck weight (with nominal load & 700 kg battery)	[kg]	5400	6050
2.3	Axle loadings (without load & with battery) Drive / Load side	[kg]	2100 / 2x850	2450 / 2x800
2.4	Axle loadings (with nominal load & battery) mast out, Drive / Load side	[kg]	700 / 2x2350	800 / 2x2625
2.5	Axle loadings (with nominal load & battery) mast retracted, Drive / Load side	[kg]	2050 / 2x1675	2100 / 2x1975
WHEELS & TYRES				
3.1	Tyres, material (Vul=Vulkollan) Drive / Load side		vul/vul	vul/vul
3.2	Load wheel dimensions (diameter x width)	[mm]	Ø310x120	Ø310x120
3.3	Drive wheel dimensions (diameter x width)	[mm]	Ø343x114	Ø343x120
3.5	Number of the wheels (x=driven) Drive / Load side	[mm]	1 / 2	1 / 2
3.6	Track width (centre of tyres) Load side	b10 [mm]	1150	1150
DIMENSIONS				
4.1	Mast or fork tilting, forwards/backwards	°	2 / 4	2 / 4
4.2	Lowered mast height (see tables)	h1 [mm]	See table	See table
4.3	Free lift	h2 [mm]	See table	See table
4.4	Lift	h3 [mm]	See table	See table
4.5	Raised mast height (see tables)	h4 [mm]	See table	See table
4.7	Height of the overhead guard	h6 [mm]	2175	2175
4.8	Seat (compressed or platform height)	h7 [mm]	1050	1050
4.10	Height of the support legs	h8 [mm]	330	330
4.15	Fork height, fully lowered	h13 [mm]	40	40
4.19	Overall length (platform up / down)	l1 [mm]	2400	2500
4.20	Powerhead length (to fork face)(platform up / down)	l2 [mm]	See table	See table
4.21	Chassis (overall width)	b1/b2 [mm]	1270	1270
4.22	Fork dimensions (thickness/ width/ length)	s/e/l [mm]	40 / 100 / 1150	40 / 100 / 1150
4.23	DIN 15173		FEM 2A	FEM 2A
4.24	Width of the fork carriage	b3 [mm]	840	840
4.25	Outside width over forks	b5 [mm]	315 - 710	315 - 710
4.26	Inner width of the support legs	b4 [mm]	900	900
4.28	Reach movement	l4 [mm]	See table	See table
4.32	Ground clearance, centre of wheelbase (forks lowered)	m2 [mm]	75	75
4.33	Working aisle width (Ast3), pallet 1000x1200 mm, load crosswise (platform up /	Ast [mm]	See table	See table
4.34	Working aisle width (Ast3), pallet 800x1200 mm, load lengthwise (platform up /	Ast [mm]	See table	See table
4.35	Turning radius (forks lowered, platform up / down)	Wa [mm]	1685	1780
4.37	Lenght of the truck without forks	l7 [mm]	1830	1930
PERFORMANCE				
5.1	Travel speed, with/without load	[km/h]	11 / 11	11 / 11
5.2	Lifting speed, with/without load	[m/s]	0.32 / 0.55	0.28 / 0.55
5.3	Lowering speed, with/without load	[m/s]	0.50 / 0.46	0.45 / 0.40
5.4	Reach speed, with/without load	[m/s]	0.1 / 0.1	0.1 / 0.1
5.8	Maximum gradeability, with/without load	[%]	10 / 15	8 / 12
5.9	Acceleration time (10 meters), with/without load	[s]	5.8 / 5.5	6.0 / 5.5
5.10	Service Brake		Mechanical	Mechanical
MOTORS				
6.1	Drive motor S3 60 min	[kW]	5,5	7,5
6.2	Lift motor S3 15%	[kW]	10	14
6.4	Battery voltage / capacity (5hr. rating)	[V/Ah]	48 / 465, 620, 775	48 / 620, 775, 930
6.5	Battery weight	[kg]	700, 900, 1100	900, 1100, 1300
MISCELLANEOUS				
8.1	Speed control type		Stepless	Stepless
8.2	Max. working pressure	[bar]	195	195

Manufacturer reserves the right to make technical changes.



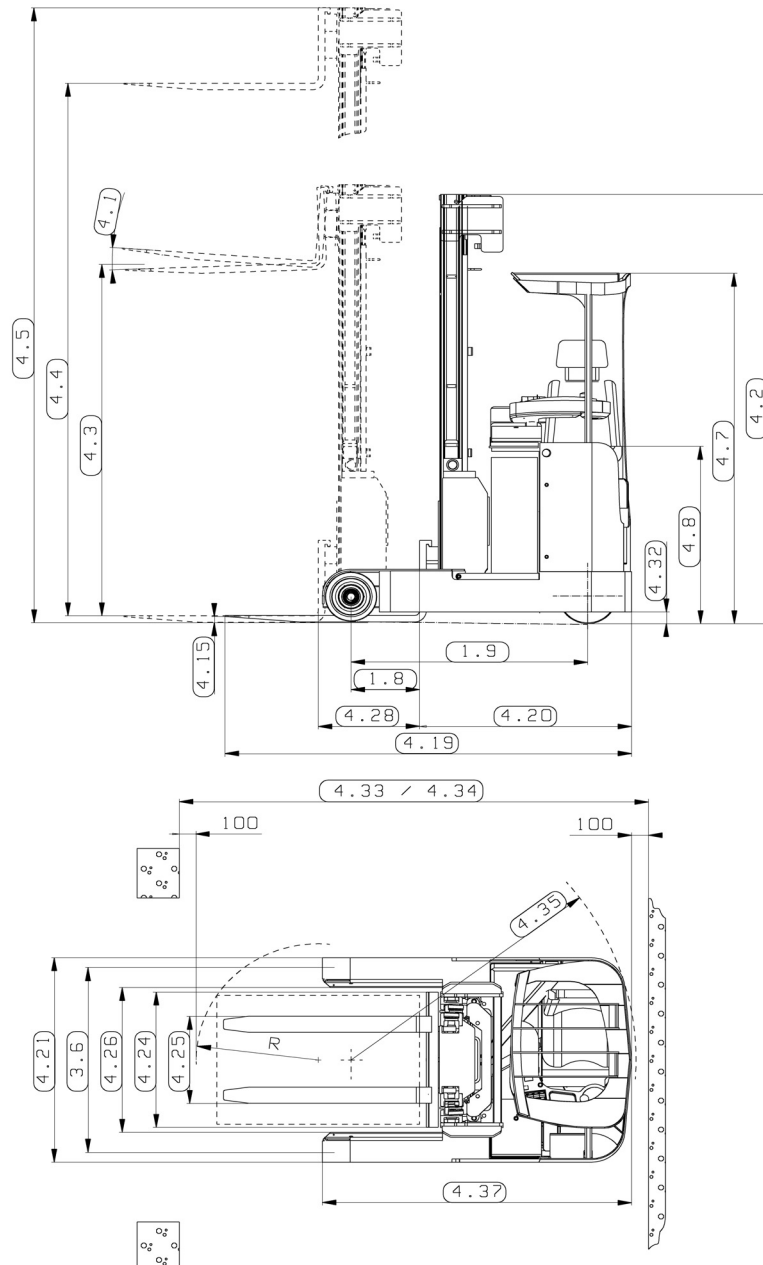
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Model	Battery capacity	Battery weight	4.33		4.34		L4	L2	X
	[Ah]	[kg]	Ast [mm]	Ast3 [mm]	Ast [mm]	Ast3 [mm]	4.28 [mm]	4.20 [mm]	1.8 [mm]
S16	465	700	2730	2480	2775	2680	600	1255	405
	620	900	2782	2552	2840	2752	528	1327	333
	775	1100	2837	2624	2906	2824	456	1399	261
S20	620	900	2825	2575	2870	2775	600	1350	405
	775	1100	2877	2647	2935	2847	528	1422	333
	930	1300	2932	2719	3001	2919	456	1494	261

Ast = Wa + R + 200
Ast3 = Wa - X + L6 + 200

Type	Mast type	h3 Lifting height	h4 Upper mast height	h1 Mast height	h2 Free lift	Tilting
S16, S20	TREV	4800	5360*	2210	1600	Tilting carriage 2° / 4°
	TREV	5400	5960*	2410	1800	
	TREV	5700	6260*	2510	1900	
	TREV	5900	6460*	2577	1967	
	TREV	6300	6860*	2710	2100	
	TREV	7000	7560*	2943	2333	
	TREV	7500	8060*	3110	2500	
	TREV	8000	8560*	3277	2667	
	TREV	8500	9060*	3543	2833	
	TREV	9000	9560*	3710	3000	
S20	TREV	9500	10060*	3877	3167	
	TREV	10000	10560*	4043	3333	

* With the load backrest +290 mm



Ergonomic control with the Boomerang operator interface is the best in its class. The versatile functions of the display allow a centralised view of all the necessary information. The highly automated functions of the display enhance the control of the truck and provide further options for the adjustment of user settings, diagnostics and the flexible addition of supplementary functions at a later stage. The Boomerang control panel together with the drivers cabin and seat enhances the comfortable and secure working environment.

Reach trucks



Advanced AC technology makes the trucks movements smooth and precise and offers maximum control over acceleration, speed adjustment, braking and parking. The handling of the truck in places and situations requiring precision becomes considerably easier.

With progressive steering agility is increased in low speeds, whereas safety and stability are improved in top speeds. In addition the operating characteristics of reach trucks can be individually adjusted by service personnel to meet the requirements of operator and application.

Ease of inspection and maintenance with the swing-open design of the control cabin is a feature particularly appreciated by service personnel. All components requiring routine inspection or service are easily accessible. Changing batteries is also quick and easy with fast battery changing rolls available as an option.



Thanks to the advanced design of the overhead guard and the mast assembly, blind spots have been reduced to a minimum. Visibility in all directions and to the fork tips is therefore excellent.



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