



BR13S-9 / BR15S-9 / BR18S-9
BR20S-9 / BR25S-9

9 SERIES REACH TRUCK

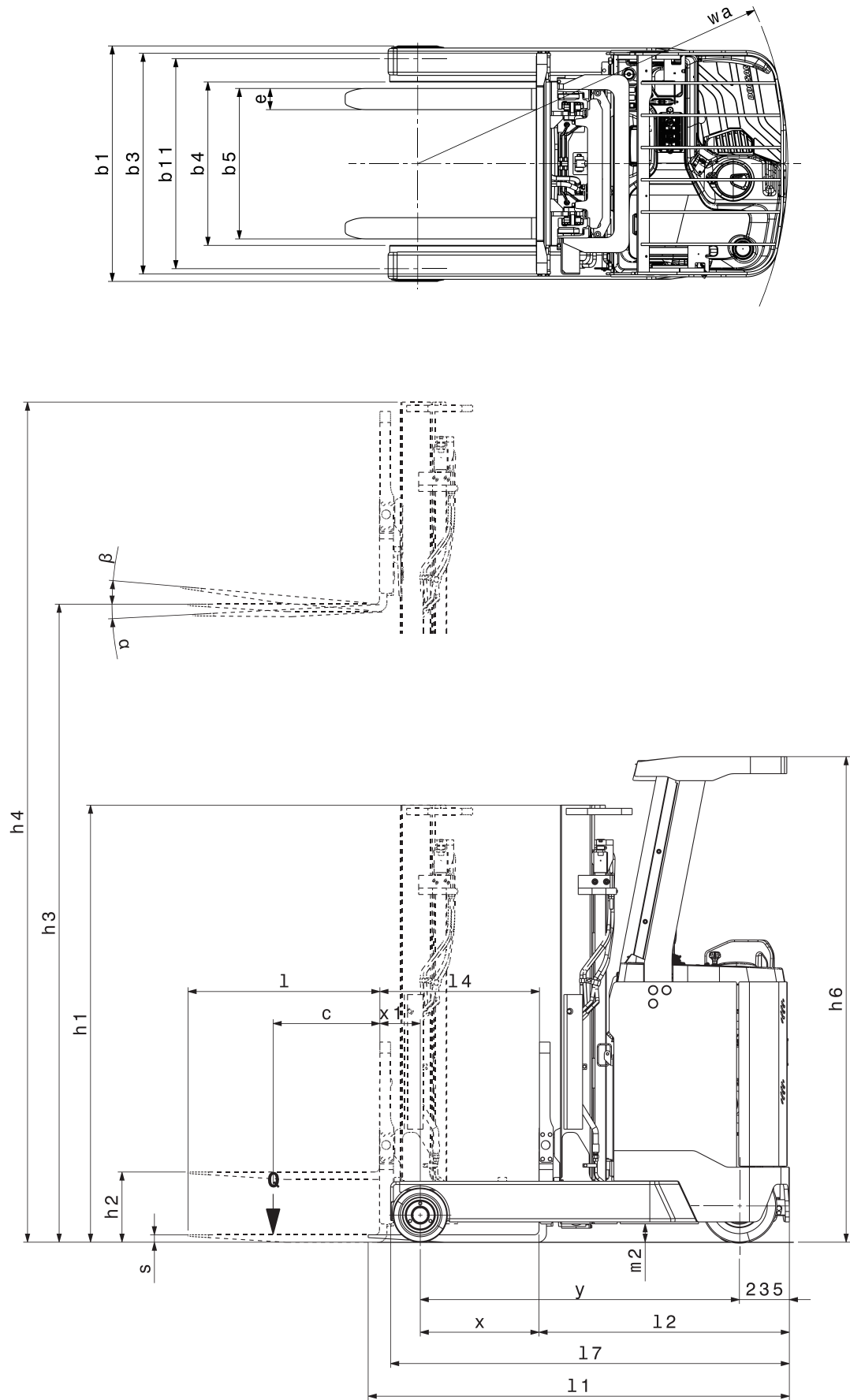
Electric 1.3 to 2.5ton capacity-Standing type



GENERAL SPECIFICATION

Identification	1.1	Manufacturer	Doosan	Doosan	Doosan	Doosan	Doosan	
	1.2	Model designation	BR13S-9	BR15S-9	BR18S-9	BR20S-9	BR25S-9	
	1.3	Drive	Electric	Electric	Electric	Electric	Electric	
	1.4	Operator type	stand-on	stand-on	stand-on	stand-on	stand-on	
	1.5	Load capacity	Q (kg)	1250	1500	1800	2000	2500
	1.6	Load centre	c (mm)	500	500	500	500	500
	1.8	Load distance - Mast pushed forward	x1 (mm)	179	179	179	192	192
	1.9	Wheelbase	y (mm)	1250	1350	1500	1530	1700
	2.1	Total Weight (/w battery)	kg	2265	2365	2385	2760	2780
	Wheels, Chassis	3.1	Tyres size, front	dia. x width(mm)	343 x 140	343 x 140	343 x 140	343 x 140
3.2		Tyres size, rear, load	dia. x width(mm)	255 x 120	255 x 120	255 x 120	267 x 114	267 x 114
3.3		Tyres size, rear, caster	dia. x width(mm)	165 x 60	165 x 60	165 x 60	165 x 60	165 x 60
3.5		Wheels, number front/rear (x=driven)		2/3(1)	2/3(1)	2/3(1)	2/3(1)	2/3(1)
3.6		Tread, front	b10 (mm)	990	990	990	1112	1112
3.7		Tread, rear	b11 (mm)	680	680	680	680	680
Basic Dimensions		4.1	Tilt of fork carriage forward/backward	α/β (°)	3/5	3/5	3/5	3/5
	4.2	Closed mast height Height, mast lowered	h1 (mm)	2055	2055	2055	2045	2045
	4.3	Free lift	h2 (mm)	320	320	320	335	335
	4.4	Max. fork height with STD mast	h3 (mm)	3300	3300	3300	3000	3000
	4.5	Height of mast, extended	h4 (mm)	4250	4250	4250	4055	4055
	4.7	Height of overhead guard	h6 (mm)	2285	2285	2285	2285	2285
	4.19	Overall length	l1 (mm)	2077	2077	2077	2285	2285
	4.20	Length to face of forks	l2 (mm)	1164	1164	1164	1315	1315
	4.21	Overall width	b1 (mm)	1110	1110	1110	1230	1230
	4.22	Fork dimensions (Shaft type)	s/e/l (mm)	35/100/900	35/100/900	35/100/900	45/100/1000	45/100/1000
	4.23	Fork carriage ISO 2328, class/type A,B		2A	2A	2A	2A	2A
	4.24	Fork carriage width	b3 (mm)	1016	1016	1016	1176	1176
	4.25	Width across forks	b5 (mm)	721/233	721/233	721/233	841/233	841/233
	4.26	Distance between wheel arms/loading surfaces	b4 (mm)	770	770	770	896	896
	4.28	Reach distance	l4 (mm)	505	600	750	655	825
	4.31	Ground clearance, loaded, below mast	m1 (mm)	85	85	85	85	85
	4.32	Ground clearance, centre of wheelbase	m2 (mm)	86.5	86.5	86.5	86.5	86.5
	4.33	Aisle width for pallets 1000x1200 long	Ast (mm)	2686	2718	2754	2829	2901
		Aisle width for pallets 800x1200 wide	Ast (mm)	2449	2503	2590	2642	2768
4.35	Turning radius	Wa (mm)	1495	1595	1745	1775	1945	
4.37	Length across wheel arms	l7 (mm)	1625	1725	1875	1911	2081	
Performance Data	5.1	Travel speed, loaded/unloaded	km/h	10.5/10.5	10.5/10.5	10.5/10.5	11.5/11.5	11.5/11.5
	5.2	Lift speed, loaded/unloaded	m/s	0.31/0.54	0.31/0.54	0.31/0.54	0.28/0.5	0.28/0.5
	5.3	Lowering speed, loaded/unloaded	m/s	0.5/0.45	0.5/0.45	0.5/0.45	0.5/0.45	0.5/0.45
	5.8	Max. gradeability, loaded/unloaded	%	15/-	15/-	15/-	11/-	11/-
	5.10	Service brake		MECH.DISCS	MECH.DISCS	MECH.DISCS	MECH.DISCS	MECH.DISCS
E-Motor	6.1	Drive motor rating S2 60 min.	kW	4	4	4	5	5
	6.2	Lift motor rating S3 15%	kW	8	8	8	14	14
	6.4	Battery voltage/capacity at 5 hours rate	V/Ah	48/230	48/280	48/280	48/335	48/335
	6.5	Battery weight	kg	427	427	427	530	530
		Battery dimensions	l/w/h (mm)	956/375/568	956/375/568	956/375/568	956/375/568	956/375/568
	6.6	Energy consumption according to VDI cycle	kWh/h at number of cycle	4.02	4.02	4.02	4.44	4.44
Others	10.2	Operating pressure (Main valve / attachments)	bar	200/140	200/140	200/140	200/140	200/140
	10.2	Oil volume for attachments	l/min	Default 7.6 (Max. 46)	Default 7.6 (Max. 46)	Default 7.6 (Max. 46)	Default 10.2 (Max. 61)	Default 10.2 (Max. 61)
	10.7	Sound level at operator's ear according to EN12053	dB(A)	66	66	66	67	67

DIMENSIONAL DRAWING



MAST SPECIFICATION AND RATED CAPACITIES

BR13S-9, BR15S-9, BR18S-9

Mast Type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Tilt Angle		BR13S-9		BR15S-9		BR18S-9	
							Load Capacity		Load Capacity		Load Capacity	
			With Load Backrest	With Load Backrest	Forward	Backward	LC 500mm	LC 600mm	LC 500mm	LC 600mm	LC 500mm	LC 600mm
	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg
STD	3000	2055	3950	320	3	5	1300	1135	1500	1310	1800	1570
	3300	2205	4250	320	3	5	1300	1135	1500	1310	1800	1570
	3500	2305	4450	320	3	5	1250	1090	1450	1265	1750	1525
	3700	2405	4650	320	3	5	1200	1050	1400	1220	1650	1440
	4000	2605	4950	320	3	5	1150	1005	1350	1180	1500	1310
	4500	2855	5450	320	3	5	900	785	1150	1005	1250	1090
	5000	3130	5950	320	3	5	800	700	1000	875	1100	960
FFT	6000	3655	6950	320	3	5	700	610	900	785	900	785
	4500	2030	5450	1125	3	5	900	785	1150	1005	1250	1095
	5000	2230	5950	1325	3	5	850	745	1000	875	1050	920
	5500	2465	6455	1560	3	5	775	680	900	785	1000	875
	6000	2630	6950	1725	3	5	750	655	850	745	900	785
	6500	2795	7450	1890	3	5	675	590	750	655	800	700
	7000	3065	8050	2160	3	5	650	570	700	615	780	685
	7500	3230	8450	2325	3	5	600	525	650	570	750	655
8000	3500	9050	2590	3	5	500	440	500	440	500	440	

BR20S-9, BR25S-9

Mast Type	Maximum Fork Height	Maximum Lowered Height	Fully Extended Height	Free Lift	Tilt Angle		BR20S-9		BR25S-9	
							Load Capacity		Load Capacity	
			With Load Backrest	With Load Backrest	Forward	Backward	LC 500mm	LC 600mm	LC 500mm	LC 600mm
	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg
STD	2950	2020	4005	335	3	5	2000	1750	2500	2185
	3230	2160	4285	335	3	5	2000	1750	2500	2185
	3500	2410	4560	335	3	5	2000	1750	2500	2185
	3800	2560	4860	335	3	5	2000	1750	2500	2185
	3950	2635	5010	335	3	5	2000	1750	2500	2185
	4350	2835	5410	335	3	5	2000	1750	2400	2100
	4960	3135	6010	335	3	5	1850	1620	2200	1925
FFT	3900	1870	4960	860	3	5	2000	1750	2500	2185
	4290	2005	5365	995	3	5	2000	1750	2400	2100
	4730	2145	5785	1135	3	5	1900	1660	2300	2010
	5260	2395	6310	1385	3	5	1850	1620	2100	1835
	5560	2495	6610	1485	3	5	1730	1515	2050	1795
	6010	2645	7060	1635	3	5	1600	1400	1950	1705
	6500	2885	7555	1875	3	5	1300	1140	1500	1315

2018 November

AUTHORIZED DEALER



Doosan Industrial Vehicle
Web site : www.doosan-iv.com