

Mast Specifications

TRUCK	MAST	Lift height (h3)	OVHD height (h6)		Closed mast height (h1)	FREE LIFT(h2)	
			STANDARD	W/OPTION*		W/LBR	WO/LBR
MODEL	TYPE	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
BR14J-9 Narrow	FFT	5000	2186	2275	2160	1265	1340
	FFT	5600	2186	2275	2360	1465	1540
	FFT	6000	2186	2275	2490	1600	1675
	FFT	6500	2186	2275	2660	1765	1840
	FFT	7100	2186	2275	2860	1965	2040
	FFT	7500	2186	2275	2990	2100	2175
	FFT	7800	2186	2275	3090	2200	2275
	FFT	8420	2186	2275	3300	2405	2480
	FFT	8720	2186	2275	3400	2505	2580
BR16J-9 Narrow	FFT	5000	2186	2275	2160	1265	1340
	FFT	5600	2186	2275	2360	1465	1540
	FFT	6000	2186	2275	2490	1600	1675
	FFT	6500	2186	2275	2660	1765	1840
	FFT	7100	2186	2275	2860	1965	2040
	FFT	7500	2186	2275	2990	2100	2175
	FFT	7800	2186	2275	3090	2200	2275
	FFT	8420	2186	2275	3300	2405	2480
	FFT	8720	2186	2275	3400	2505	2580
BR14JW-9 STD	FFT	5000	2186	2275	2160	1265	1340
	FFT	5600	2186	2275	2360	1465	1540
	FFT	6000	2186	2275	2490	1600	1675
	FFT	6500	2186	2275	2660	1765	1840
	FFT	7100	2186	2275	2860	1965	2040
	FFT	7500	2186	2275	2990	2100	2175
	FFT	7800	2186	2275	3090	2200	2275
	FFT	8420	2186	2275	3300	2405	2480
	FFT	8720	2186	2275	3400	2505	2580
	FFT	9110	2186	2275	3530	2635	2710
	FFT	9620	2186	2275	3700	2805	2880
	FFT	10520	2186	2275	4000	3105	3180
	FFT	11510	2186	2275	4330	3435	3510
BR16JW-9 STD	FFT	5000	2186	2275	2160	1265	1340
	FFT	5600	2186	2275	2360	1465	1540
	FFT	6000	2186	2275	2490	1600	1675
	FFT	6500	2186	2275	2660	1765	1840
	FFT	7100	2186	2275	2860	1965	2040
	FFT	7500	2186	2275	2990	2100	2175
	FFT	7800	2186	2275	3090	2200	2275
	FFT	8420	2186	2275	3300	2405	2480
	FFT	8720	2186	2275	3400	2505	2580
	FFT	9110	2186	2275	3530	2635	2710
	FFT	9620	2186	2275	3700	2805	2880
	FFT	10520	2186	2275	4000	3105	3180
	FFT	11510	2186	2275	4330	3435	3510
FFT	12530	2186	2275	4670	3775	3850	

OVERHEAD GUARD HEIGHT / CLOSED MAST HEIGHT / FREE LIFT
* OPTION : TMS, STROBE, BLUE LED LIGHT

TRUCK	MAST	Lift height (h3)	OVHD height (h6)		Closed mast height (h1)	FREE LIFT(h2)	
			STANDARD	W/OPTION*		W/LBR	WO/LBR
MODEL	TYPE	(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
BR20JW-9 Heavy	FFT	5000	2186	2275	2320	1425	1620
	FFT	5600	2186	2275	2520	1625	1820
	FFT	6000	2186	2275	2650	1760	1955
	FFT	6500	2186	2275	2820	1925	2120
	FFT	7100	2186	2275	3020	2125	2320
	FFT	7500	2186	2275	3150	2260	2455
	FFT	7800	2186	2275	3250	2360	2555
	FFT	8420	2186	2275	3460	2565	2760
	FFT	8720	2186	2275	3560	2665	2860
	FFT	9110	2186	2275	3690	2795	2990
	FFT	9620	2186	2275	3860	2965	3160
	FFT	10520	2186	2275	4160	3265	3460
	FFT	11510	2186	2275	4490	3595	3790
BR25JW-9 Heavy	FFT	5000	2186	2275	2320	1425	1620
	FFT	5600	2186	2275	2520	1625	1820
	FFT	6000	2186	2275	2650	1760	1955
	FFT	6500	2186	2275	2820	1925	2120
	FFT	7100	2186	2275	3020	2125	2320
	FFT	7500	2186	2275	3150	2260	2455
	FFT	7800	2186	2275	3250	2360	2555
	FFT	8420	2186	2275	3460	2565	2760
	FFT	8720	2186	2275	3560	2665	2860
	FFT	9110	2186	2275	3690	2795	2990
	FFT	9620	2186	2275	3860	2965	3160
	FFT	10520	2186	2275	4160	3265	3460
	FFT	11510	2186	2275	4490	3595	3790
FFT	12530	2186	2275	4830	3935	4130	
FFT	13000	2186	2275	4985	4090	4290	

Battery Bed Size

TRUCK	BATTERY	W	D	H
BR14/16J-9	315AH	1070	347	780
	L / W / H	1070 / 347 / 780	1070 / 347 / 780	1070 / 412 / 780
	(Max)	1073 / 350 / 785	1073 / 350 / 785	1073 / 415 / 785
BR14/16JW-9	420AH	1220	290	780
	L / W / H	1220/290/780	1220/355/780	1220/425/780
	(Max)	1223/293/785	1223/358/785	1223/428/785
BR20/25JW-9	700AH	1220	500	780
	L / W / H	1220/425/780	1220/500/780	1220/500/780
	(Max)	1223/428/785	1223/503/785	1223/503/785



BR14JW-9 / BR16JW-9 / BR20JW-9 / BR25JW-9
BR14J-9 / BR16J-9

ELECTRIC REACH TRUCK
1,400 to 2,500 kg Capacity
Mast moving type



Technical Specifications

Dimensional Drawing

Identification	Doosan																				
	1.1	Manufacturer	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan	Doosan
1.2	Model designation	BR14J-9	BR14J-9	BR14J-9	BR16J-9	BR16J-9	BR16J-9	BR14JW-9	BR14JW-9	BR14JW-9	BR16JW-9	BR16JW-9	BR16JW-9	BR20JW-9	BR20JW-9	BR20JW-9	BR25JW-9	BR25JW-9	BR25JW-9	BR25JW-9	
		315AH	465AH	620AH	315AH	465AH	620AH	420AH	560AH	700AH	420AH	560AH	700AH	700AH	775AH	930AH	700AH	775AH	930AH	930AH	
1.3	Drive	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	Electric	
1.4	Operator type	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	Seat	
1.5	Load capacity	Q (kg)	1,250	1,400	1,400	1,250	1,600	1,600	1,400	1,400	1,400	1,400	1,600	1,600	1,600	2,000	2,000	2,000	2,400	2,400	2,450
1.6	Load centre	c (mm)	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600	600
1.8	Load distance	x (mm)	210.5	210.5	145.5	226	226	161	287.5	222.5	152.5	307.5	242.5	172.5	197.5	140.5	140.5	317.5	242.5	242.5	
	Mast pushed forward	x1 (mm)	215	215	215	215	215	215	215	215	215	215	215	215	220	220	220	220	220	220	
1.9	Wheelbase	y (mm)	1,390	1,390	1,390	1,410	1,410	1,410	1,410	1,410	1,410	1,430	1,430	1,430	1,520	1,520	1,520	1,640	1,640	1,640	
2.1	Unload weight	kg	3,021	3,219	3,427	3,026	3,224	3,432	3,266	3,459	3,647	3,269	3,462	3,650	4,312	4,429	4,587	4,325	4,442	4,600	
2.3	Axle loading, unload, front/rear	kg	1,733/1,288	1,844/1,375	1,902/1,525	1,769/1,257	1,895/1,329	1,967/1,465	1,929/1,337	1,986/1,473	1,356/2,291	1,986/1,283	2,029/1,433	2,054/1,596	2,398/1,914	2,394/2,035	2,490/2,097	2,525/1,800	2,511/1,931	2,611/1,989	
2.4	Axle loading, fork advanced, load, front/rear	kg	877/3,394	933/3,686	1,051/3,776	912/3,364	909/3,915	1,041/3,991	1,447/3,219	1,500/3,359	851/4,196	1,512/3,357	1,543/3,519	1,554/3,696	1,811/4,501	1,794/4,635	1,890/4,697	2,012/4,713	1,963/4,879	2,062/4,988	
2.5	Axle loading, fork retracted, load, front/rear	kg	1,652/2,619	1,754/2,865	1,747/3,080	1,704/2,572	1,811/3,013	1,810/3,222	1,917/2,749	1,909/2,950	1,210/3,837	1,994/2,875	1,965/3,097	1,911/3,339	2,263/4,049	2,184/4,245	2,280/4,307	2,550/4,175	2,427/4,415	2,526/4,524	
3.1	Tyres		Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	Vmax/Vulkollan®	
3.2	Tyres size, front	dia. x width(mm)	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	343 x 140	
3.3	Tyres size, rear	dia. x width(mm)	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	285 x 100	355 x 135	355 x 135	355 x 135	355 x 135	355 x 135	
3.5	Wheels, number front/rear (x=driven)		1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	1x/2	
3.7	Track width, rear	b11 (mm)	995	995	995	995	995	995	995	1145	1145	1145	1145	1145	1199	1,199	1,199	1,199	1,199	1,199	
4.1	Tilt of fork carriage forward/backward	α/β (°)	2/5	2/5	2/5	2/5	2/5	2/5	2/5	2/5	2/5	2/5	2/5	2/5	2/4	2/4	2/4	2/4	2/4	2/4	
4.2	Closed mast height	h1 (mm)	2,490	2,490	2,490	2,490	2,490	2,490	2,490	2,490	2,490	2,490	2,490	2,490	2,820	2,820	2,820	2,820	2,820	2,820	
4.3	Free lift	h2 (mm)	1,990	1,990	1,990	1,990	1,990	1,990	1,990	1,990	1,990	1,990	1,990	1,990	2,310	2,310	2,310	2,310	2,310	2,310	
4.4	Lift height	h3 (mm)	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,000	6,500	6,500	6,500	6,500	6,500	6,500	
4.5	Height of mast, extended	h4 (mm)	6,555	6,555	6,555	6,555	6,555	6,555	6,555	6,555	6,555	6,555	6,555	6,555	7,060	7,060	7,060	7,060	7,060	7,060	
4.7	Height of overhead guard	h6 (mm)	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	2,186	
4.8	Seat height	h7 (mm)	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	1,087	
4.1	Height of wheel arms	h8 (mm)	306	306	306	306	306	306	306	306	306	310	310	310	315	315	315	315	315	315	
4.19	Overall length	l1 (mm)	2,555	2,555	2,620	2,561	2,561	2,561	2,626	2,502	2,567	2,637	2,502	2,567	2,637	2,710	2,767	2,767	2,710	2,785	2,785
4.2	Length to face of forks	l2 (mm)	1,405	1,405	1,470	1,410	1,410	1,410	1,475	1,352	1,417	1,487	1,352	1,417	1,487	1,560	1,617	1,617	1,560	1,635	1,635
4.21	Overall width	b1/b2 (mm)	1,120	1,120	1,120	1,120	1,120	1,120	1,120	1,270	1,270	1,270	1,270	1,270	1,360/1,342	1,360/1,342	1,360/1,342	1,360/1,342	1,360/1,342	1,360/1,342	
4.22	Fork dimensions	s/e/l (mm)	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	40/100/1,150	45/100/1,150	45/100/1,150	45/100/1,150	45/100/1,150	45/100/1,150	45/100/1,150	
4.23	Fork carriage ISO 2328, class/type A,B		2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A	2A
4.24	Fork carriage width	b3 (mm)	663	663	663	663	663	663	663	813	813	813	813	813	813	813	813	813	813	813	
4.25	Width across forks	b5 (mm)	245/603	245/603	245/603	245/603	245/603	245/603	245/603	245/753	245/753	245/753	245/753	245/753	245/753	245/753	245/753	245/753	245/753	245/753	
4.26	Distance between wheel arms/loading surfaces	b4 (mm)	788	788	788	788	788	788	788	938	938	938	938	938	938	938	938	938	938	938	
4.28	Reach distance	l4 (mm)	426	426	361	441	441	376	503	438	368	523	458	388	418	361	361	538	463	463	
4.32	Ground clearance, centre of wheelbase	m2 (mm)	63	63	63	63	63	63	63	63	63	63	63	63	61	61	61	61	61	61	
4.33	Aisle width for pallets 1000x1200 wide	Ast (mm)	2,808	2,808	2,860	2,815	2,815	2,867	2,771	2,822	2,878	2,776	2,826	2,882	2,960	3,006	3,006	2,987	3,044	3,044	
	Aisle width for pallets 1000x1200 long	Ast (mm)	2,925	2,925	2,983	2,931	2,931	2,989	2,881	2,938	3,001	2,883	2,940	3,003	3,078	3,130	3,130	3,092	3,158	3,158	
4.34	Aisle width for pallets 800x1200 wide	Ast (mm)	2,657	2,657	2,704	2,666	2,666	2,713	2,629	2,673	2,723	2,636	2,679	2,728	2,808	2,850	2,850	2,048	2,897	2,897	
	Aisle width for pallets 800x1200 long	Ast (mm)	2,883	2,883	2,944	2,889	2,889	2,949	2,836	2,896	2,961	2,838	2,898	2,963	3,037	3,090	3,090	3,047	3,116	3,116	
4.35	Turning radius	Wa (mm)	1,616	1,616	1,616	1,636	1,636	1,636	1,640	1,640	1,640	1,660	1,660	1,660	1,758	1,758	1,758	1,878	1,878	1,878	
4.37	Length across wheel arms	l7 (mm)	1,784	1,784	1,784	1,804	1,804	1,804	1,808	1,808	1,808	1,828	1,828	1,828	1,955	1,955	1,955	2,075	2,075	2,075	
5.1	Travel speed, load/unload	km/h	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	14/14	
5.2	Lift speed, load/unload	m/s	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.42/0.6	0.37/0.65	0.37/0.65	0.37/0.65	0.37/0.65	0.37/0.65	0.37/0.65	
5.3	Lowering speed, load/unload	m/s	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	0.55/0.55	
5.8	Max. gradeability, load/unload	%	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	10/15	
5.10	Service brake		Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Elec / EAB	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	Electromagnetic	
6.1	Drive motor rating S2 60 min.	kW	5	5	5	5	5	5	5	5	5	5	5	5	7	7	7	7	7	7	
6.2	Lift motor rating S3 15%	kW	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	18	
6.4	Battery voltage/capacity at 5 hours rate	V/Ah	48/315	48/465	48/620	48/315	48/465	48/620	48/420	48/560	48/700	48/420	48/560	48/700	48/700	48/775	48/930	48/700	48/775	48/930	
6.5	Battery weight	kg	606	804	1012	606	804	1,012	757	950	1,138	757	950	1,138	1,138	1,255	1,433	1,135	1,255	1,433	
	Battery dimensions	l/w/h (mm)	1,070/347/780	1,070/347/780	1,070/412/780	1,070/347/780	1,070/347/780	1,070/412/780	1,220/290/780	1,220/355/780	1,220/425/780	1,220/290/780	1,220/355/780	1,220/425/780	1,220/425/780	1,220/425/780	1,220/500/780	1,220/500/780	1,220/425/780	1,220/500/780	1,220/500/780
		(MAX)	(1,072/349/782)	(1,072/349/782)	(1,072/414/782)	(1,072/349/782)	(1,072/349/782)	(1,072/414/782)	(1,222/292/782)	(1,222/357/782)	(1,222/427/782)	(1,222/292/782)	(1,222/357/782)	(1,222/427/782)	(1,222/427/782)	(1,222/427/782)	(1,222/502/782)	(1,222/502/782)	(1,222/427/782)	(1,222/502/782)	(1,222/502/782)
8.1	Type of drive control		AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	AC-MOSFET	
8.2	Operating pressure for attachments	bar	200</																		