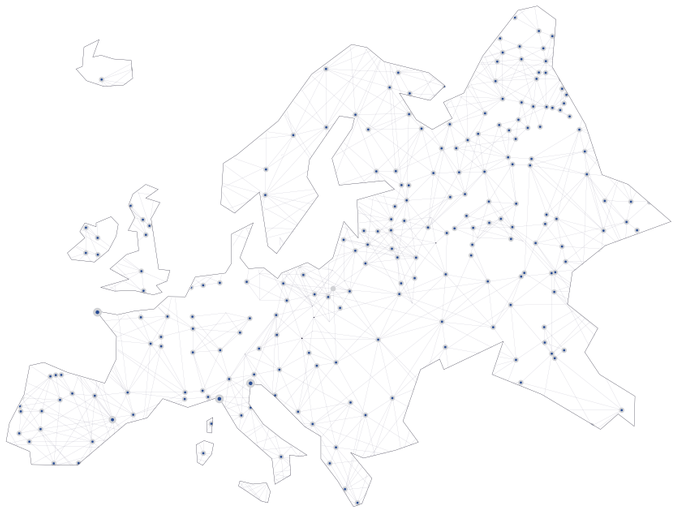
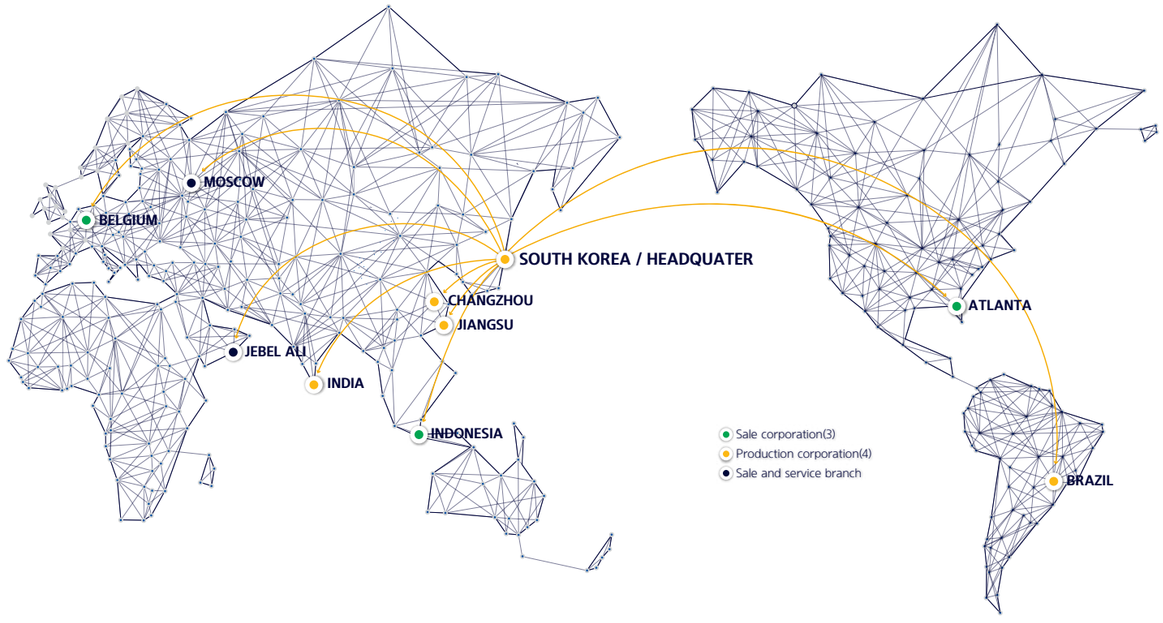
EUROPE DEALER NETWORK



HYUNDAI CONSTRUCTION EQUIPMENT GLOBAL NETWORK



BELGIUM



ATLANTA



JIANGSU



INDIA



BRAZIL



Internal Combustion Diesel Engine Forklift Truck

40/45D 50DN-9VC

35/40/45D 50DN-9VB

TECHNICAL SPECIFICATION



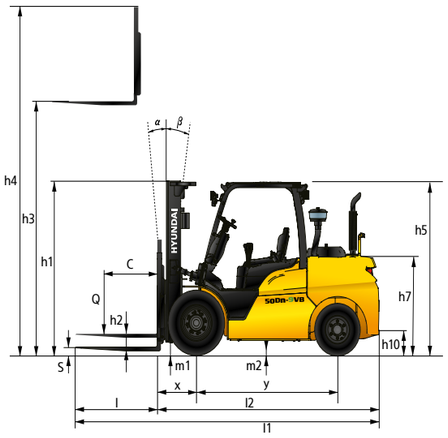
SPECIFICATIONS

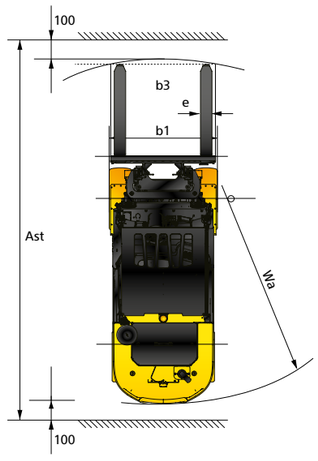
Distinguishing marks	1.1	Manufacturer				Hyundai	Hyundai	Hyundai
	1.2	Manufacturer's Model Designation				40D-9VC	45D-9VC	50DN-9VC
	1.3	Drive				Diesel	Diesel	Diesel
	1.4	Type Of Operation				Seated	Seated	Seated
	1.5	Load Capacity		C	kg (lb)	4,000 (9,000)	4,500 (10,000)	4,990 (11,000)
	1.6	Load Center Distance		x	mm (in)	500 (20)	500 (20)	500 (20)
	1.8	Load Distance(Center of Drive Axle to Fork)		y	mm (in)	561 (22.1)	561 (22.1)	561 (22.1)
	1.9	Wheelbase			mm (in)	2,030 (79.98)	2,030 (79.98)	2,100 (82.74)
Weights	2.1	Service Weight			kg (lb)	5,851 (12,899)	6,405 (14,121)	6,860 (15,124)
	2.2	Axle Loading, Loaded	Front/Rear		kg (lb)	8,988 (19,815) / 863 (1,902)	9,895 (21,814) / 1,010 (2,226)	10,667 (23,516) / 1,183 (2,608)
	2.3	Axle Loading, Unloaded	Front/Rear		kg (lb)	2,700 (5,953) / 3,151 (6,946)	2,822 (6,220) / 3,584 (7,900)	2,919 (6,434) / 3,942 (8,690)
Tires/Chassis	3.1	Tires				Pneumatic	Pneumatic	Pneumatic
	3.2	Tire Size	Front			8.25-15-14PR	7.50-16-12PR	7.50-16-12PR
	3.3	Tire Size	Rear			7.00-12-14PR	7.00-12-14PR	7.00-12-14PR
	3.5	Number of Wheels (x = Driven Wheels)	Front/Rear			2x2	4x2	4x2
	3.6	Tread	Front		mm (in)	1,132 (44.6)	1,282 (50.5)	1,282 (50.5)
	3.7	Tread	Rear		mm	1,140 (44.9)	1,140 (44.9)	1,140 (44.9)
Dimensions	4.1	Tilt of Mast/Fork Carriage Forward/Backrward		α /β	degree	8/10	8/10	8/10
	4.2	Height, Mast Lowered		h1	mm (in)	2,235 (87.9)	2,220 (87.4)	2,220 (87.4)
	4.3	Free Lift		h2	mm (in)	120 (4.7)	120 (4.7)	120 (4.7)
	4.4	Lift Height		h3	mm (in)	3,020 (118.90)	3,020 (118.89)	3,020 (118.89)
	4.5	Height, Mast Extended		h4	mm (in)	4,234 (166.69)	4,234 (166.69)	4,234 (166.69)
	4.7	Height of Overhead Guard (Cabin)		h5	mm (in)	2,350 (92.52)	2,340 (92.13)	2,340 (92.13)
	4.8	Seat Height / Stand Height Rel. to SIP		h7	mm (in)	1,316 (51.80)	1,304 (51.35)	1,304 (51.35)
	4.12	Coupling Height		h10	mm (in)	372 (14.66)	372 (14.66)	360 (14.18)
	4.19	Overall Length		l1	mm (in)	4,219 (166.23)	4,284 (168.79)	4,504 (177.46)
	4.20	Length to Face of Forks		l2	mm (in)	3,149 (124.07)	3,204 (126.24)	3,284 (129.39)
	4.21	Overall Width		b1	mm (in)	1,370 (53.9)	1,746 (68.7)	1,746 (68.7)
	4.22	Fork Dimensions		lxexs	mm (in)	50x122x1,070 (1.9x4.8x42)	50x150x1,070 (1.9x5.9x42)	50x150x1,220 (1.9x5.9x48)
	4.23	Fork Carriage Iso 2328, Class / Type A, B				III / A	III /A	III /A
	4.24	Fork-Carriage Width		b3	mm (in)	1,300 (51.18)	1,600 (62.99)	1,600 (62.99)
	4.31	Ground Clearance, Below Mast, Loaded		m1	mm (in)	170 (6.69)	155 (6.10)	155 (6.10)
	4.32	Ground Clearance, Center of Wheelbase		m2	mm (in)	202 (7.95)	202 (7.95)	190 (7.48)
	4.34.1	Aisle Width For Pallets 1000 X 1200 Crossways		Ast	mm (in)	4,656 (183.3)	4,705 (185.2)	4,799 (188.9)
	4.34.2	Aisle Width For Pallets 800 X 1200 Lengthways		Ast	mm (in)	4,856 (191.2)	4,905 (193.1)	4,999 (196.8)
	4.35	Turning Radius		Wa	mm (in)	2,895 (114)	2,944 (115.9)	3,038 (119.6)
	4.36	Smallest Pivot Point Distance			mm (in)	1,023 (40.3)	1,023 (40.3)	1,074 (42.3)
Performance data	5.1	Travel Speed	Loaded / Unloaded		km/h (mph)	26.4/29.2 (16.4/18.2)	26.2/28.4 (16.3/17.6)	25.9/28.2 (16.1/17.5)
	5.2	Lift Speed	Loaded / Unloaded		mm/s (ft/min)	510/540 (100/106)	510/540 (100/106)	480/540 (95/106)
	5.3	Lowering Speed	Loaded / Unloaded		mm/s (ft/min)	550/550 (108/108)	550/550 (108/108)	550/550 (108/108)
	5.6	Max. Drawbar Pull	Loaded / Unloaded		N (lb)	41,751/39,407 (9,383/8,856)	41,506/40,430 (9,328/9,086)	41,536/40,346 (9,334/9,067)
	5.8	Max. Gradeability	Loaded / Unloaded		%	42.2/25.1	37.2/24.1	33.9/23.4
	5.10	Service Brake				Hydraulic	Hydraulic	Hydraulic
Engine	7.1	Engine Manufacturer / Type				HMC D4CC	HMC D4CC	HMC D4CC
	7.2	Engine Power Acc. to Iso 1585			kW/rpm (hp/rpm)	54.4/2,200 (73.2/2,200)	54.4/2,200 (73.2/2,200)	54.4/2,200 (73.2/2,200)
	7.3	Maximum Torque			kgf · m/rpm (lbf · ft/rpm)	34.5/1,500 (248/1,500)	34.5/1,500 (248/1,500)	34.5/1,500 (248/1,500)
	7.4	No. of Cylinders / Displacement			EA/cc	4/2,891	4/2,891	4/2,891
	7.5	Fuel Consumption Acc. to Vdi Cycle			l/h	3.5	3.8	4.0
Additional data	8.1	Type of Drive Control			AC	Power Shift	Power Shift	Power Shift
	8.2	Operating Pressure, System / Attachments			bar (psi)	210/140 (3,050/2,030)	210/140 (3,050/2,030)	210/140 (3,050/2,030)
	8.3	Oil Volume For Attachments			LPM (GPM-US)	60 (16)	60 (16)	60 (12)
	8.5	Trailer Coupling, Type Din				PIN	PIN	PIN

* The above specifications are based on V300 mast.
* In accordance with guideline 2198, this specification sheet provides details of the standard truck only.
  Non-standard tires, different masts, optional equipment, etc. may result in different values.

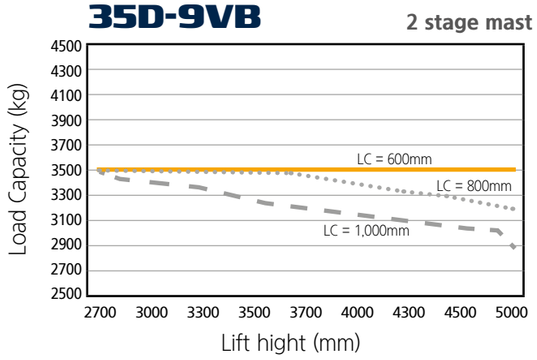
Distinguishing marks	1.1	Manufacturer				Hyundai	Hyundai	Hyundai	Hyundai
	1.2	Manufacturer's Model Designation				35D-9VB	40D-9VB	45D-9VB	50DN-9VB
	1.3	Drive				Diesel	Diesel	Diesel	Diesel
	1.4	Type Of Operation				Seated	Seated	Seated	Seated
	1.5	Load Capacity		C	kg (lb)	3,500 (8,000)	4,000 (9,000)	4,500 (10,000)	4,990 (11,000)
	1.6	Load Center Distance		x	mm (in)	600 (24)	600 (24)	600 (24)	600 (24)
	1.8	Load Distance(Center of Drive Axle to Fork)		y	mm (in)	561 (22.1)	561 (22.1)	561 (22.1)	576 (22.7)
	1.9	Wheelbase			mm (in)	2,030 (80.0)	2,030 (80.0)	2,100 (82.7)	2,100 (82.7)
Weights	2.1	Service Weight			kg (lb)	5,851 (12,899)	6,405(14,121)	6,860(15,124)	7,264(16,014)
	2.2	Axle Loading, Loaded	Front/Rear		kg (lb)	8,202 (18,082) / 1,149 (2,533)	9,109 (20,082) / 1,296 (2,857)	9,906 (2,1840) / 1,454 (3,206)	1,0749 (2,3698) / 1,515 (3,340)
	2.3	Axle Loading, Unloaded	Front/Rear		kg (lb)	2,700 (5,952) / 3,151(6,946)	2,822 (6,220) / 3,584 (7,900)	2,919 (6,434) / 3,942 (8,690)	2,949 (6,502) / 4,315 (9,513)
Tires/Chassis	3.1	Tires				Pneumatic	Pneumatic	Pneumatic	Pneumatic
	3.2	Tire Size	Front			8.25-15-14PR	7.50-16-12PR	7.50-16-12PR	7.50-16-12PR
	3.3	Tire Size	Rear			7.00-12-14PR	7.00-12-14PR	7.00-12-14PR	7.00-12-14PR
	3.5	Number of Wheels (x = Driven Wheels)	Front/Rear			2x2	4x2	4x2	4x2
	3.6	Tread	Front		mm (in)	1,132 (44.6)	1,282 (50.5)	1,282 (50.5)	1,282 (50.5)
	3.7	Tread	Rear		mm	1,140 (44.9)	1,140 (44.9)	1,140 (44.9)	1,140 (44.9)
Dimensions	4.1	Tilt of Mast/Fork Carriage Forward/Backrward		α /β	degree	8/10	8/10	8/10	8/10
	4.2	Height, Mast Lowered		h1	mm (in)	2,235 (88.0)	2,220 (87.4)	2,220 (87.4)	2,220 (87.4)
	4.3	Free Lift		h2	mm (in)	120 (4.7)	120 (4.7)	120 (4.7)	120 (4.7)
	4.4	Lift Height		h3	mm (in)	3,020 (119.0)	3,020 (119.0)	3,020 (119.0)	2,930 (115.4)
	4.5	Height, Mast Extended		h4	mm (in)	4,234 (166.7)	4,234 (166.7)	4,234 (166.7)	4,147 (163.3)
	4.7	Height of	Overhead Guard	h5	mm (in)	2,350(92.5)	2,340 (92.1)	2,340 (92.1)	2,340 (92.1)
			Cabin			2,360(92.9)	2,350 (92.5)	2,350 (92.5)	2,350 (92.5)
	4.8	Seat Height / Stand Height Rel. to SIP		h7	mm (in)	1,316 (51.8)	1,304 (51.4)	1,304 (51.4)	1,304 (51.4)
	4.12	Coupling Height		h10	mm (in)	372 (14.7)	372 (14.7)	360 (14.2)	360 (14.2)
	4.19	Overall Length		l1	mm (in)	4,219 (166.2)	4,284 (168.8)	4,504 (177.5)	4,547 (179.2)
	4.20	Length to Face of Forks		l2	mm (in)	3,149 (124.1)	3,204 (126.2)	3,284 (129.4)	3,347 (131.9)
	4.21	Overall Width		b1	mm (in)	1,370 (53.9)	1,746 (68.7)	1,746 (68.7)	1,746 (68.7)
	4.22	Fork Dimensions		lxexs	mm (in)	50x122x1070 (1.9x4.8x42.0)	50x150x1070 (1.9x4.8x42.0)	50x150x1220 (1.9x5.9x48)	60x150x1200 (2.3x5.9x47.2)
	4.23	Fork Carriage Iso 2328, Class / Type A, B				III / A	III / A	III / A	III / A
	4.24	Fork-Carriage Width		b3	mm (in)	1,300 (51.2)	1,600 (63.0)	1,600 (63.0)	1,600 (63.0)
	4.31	Ground Clearance, Below Mast, Loaded		m1	mm (in)	170 (6.7)	155 (6.1)	155 (6.1)	155 (6.1)
	4.32	Ground Clearance, Center of Wheelbase		m2	mm (in)	202 (8.0)	202 (8.0)	190 (7.5)	190 (7.5)
	4.34.1	Aisle Width For Pallets 1000 X 1200 Crossways		Ast	mm (in)	4,656 (183.3)	4,705 (185.2)	4,799 (188.9)	4,857 (191.2)
	4.34.2	Aisle Width For Pallets 800 X 1200 Lengthways		Ast	mm (in)	4,856 (191.2)	4,905 (193.1)	4,999 (196.8)	5,057 (199.1)
	4.35	Turning Radius		Wa	mm (in)	2,895 (114.0)	2,944 (115.9)	3,038 (119.6)	3,081 (121.3)
	4.36	Smallest Pivot Point Distance			mm (in)	1,023 (40.3)	1,023 (40.3)	1,074 (42.3)	1,074 (42.3)
Performance data	5.1	Travel Speed	Loaded / Unloaded		km/h (mph)	26.8/29.2 (16.6/18.2)	26.5/28.4 (16.4/17.6)	26.1/28.2 (16.2/17.5)	25.8/28.1 (16.0/17.5)
	5.2	Lift Speed	Loaded / Unloaded		mm/s (ft/min)	520/540 (102/106)	510/540 (100/106)	510/540 (100/106)	410/460 (81/91)
	5.3	Lowering Speed	Loaded / Unloaded		mm/s (ft/min)	550/550 (108/108)	550/550 (108/108)	550/550 (108/108)	500/550 (99/109)
	5.6	Max. Drawbar Pull	Loaded / Unloaded		N (lb)	41,432/39,409 (9,311/8,856)	41,382/40,430 (9,300/9,086)	41,405/40,346 (9,305/9,067)	41,460/40,256 (9,317/9,047)
	5.8	Max. Gradeability	Loaded / Unloaded		%	44.5/25.1	39.2/24.1	35.4/23.4	32.6/22.3
	5.10	Service Brake				Hydraulic	Hydraulic	Hydraulic	Hydraulic
Engine	7.1	Engine Manufacturer / Type				HMC D4CC	HMC D4CC	HMC D4CC	HMC D4CC
	7.2	Engine Power Acc. to Iso 1585			kW/rpm (hp/rpm)	54.4/2,200 (73.2/2,200)	54.4/2,200 (73.2/2,200)	54.4/2,200 (73.2/2,200)	54.4/2,200 (73.2/2,200)
	7.3	Maximum Torque			kgf · m/rpm (lbf · ft/rpm)	34.5/1,500 (248/1,500)	34.5/1,500 (248/1,500)	34.5/1,500 (248/1,500)	34.5/1,500 (248/1,500)
	7.4	No. of Cylinders / Displacement			EA/cc	4/2,891	4/2,891	4/2,891	4/2,891
	7.5	Fuel Consumption Acc. to Vdi Cycle			l/h	3.5	3.8	4.0	4.4
Additional data	8.1	Type of Drive Control			AC	Power Shift	Power Shift	Power Shift	Power Shift
	8.2	Operating Pressure, System / Attachments			bar (psi)	210/140 (3,050/2,030)	210/140 (3,050/2,030)	210/140 (3,050/2,030)	210/140 (3,050/2,030)
	8.3	Oil Volume For Attachments			LPM (GPM-US)	60 (16)	60 (16)	60 (16)	60 (16)
	8.5	Trailer Coupling, Type Din				PIN	PIN	PIN	PIN

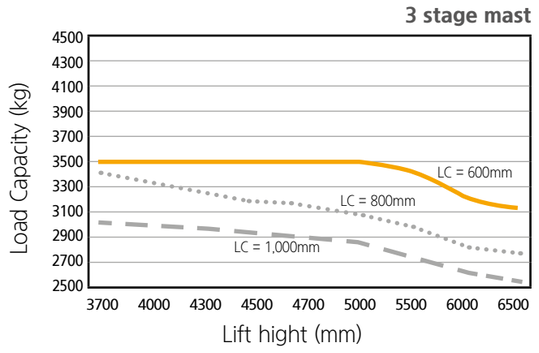
* The above specifications are based on V300 mast.
* In accordance with guideline 2198, this specification sheet provides details of the standard truck only.
  Non-standard tires, different masts, optional equipment, etc. may result in different values.



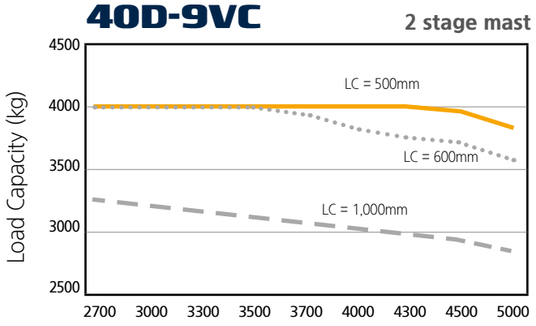


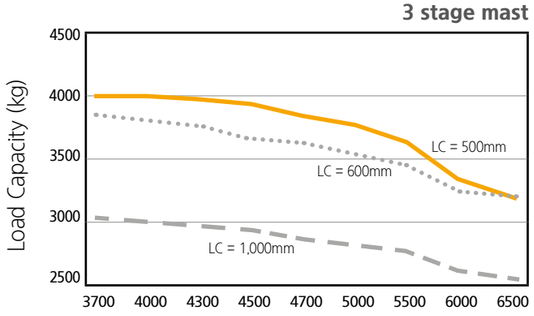
35D-9VB



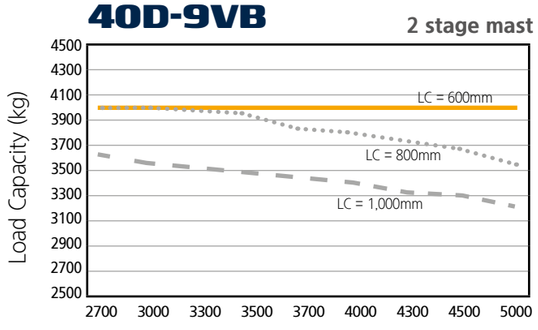


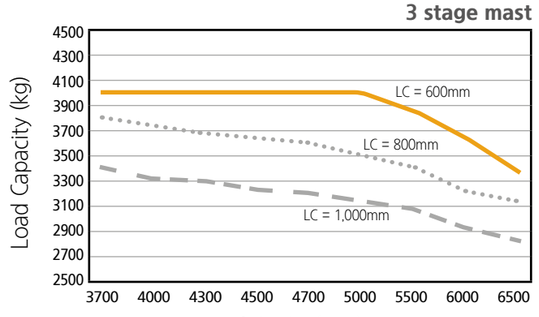
40D-9VC



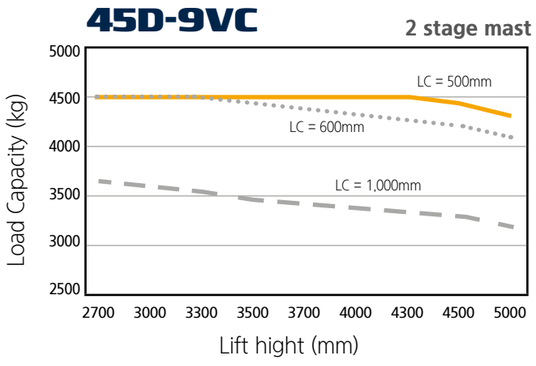


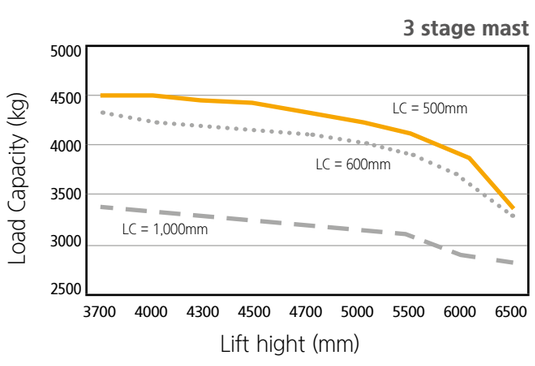
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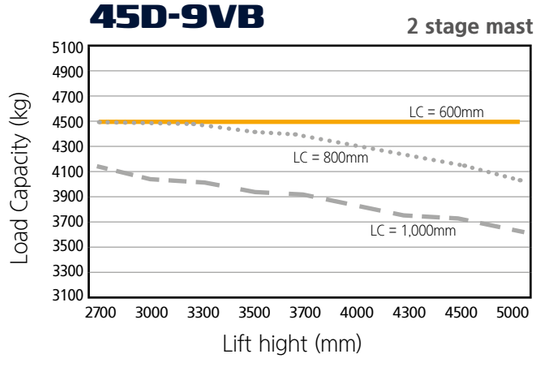


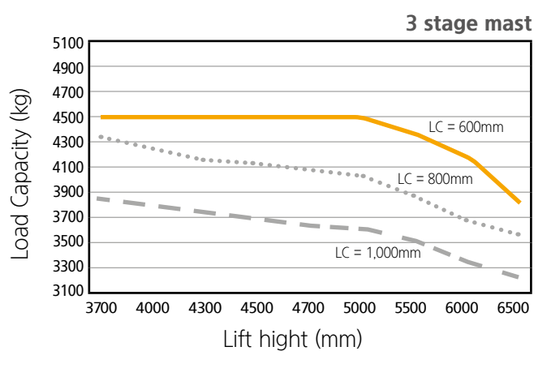
45D-9VC



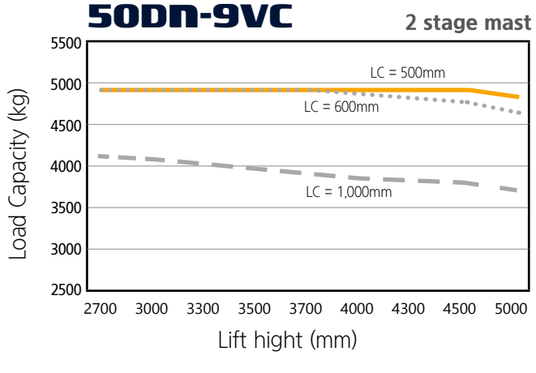


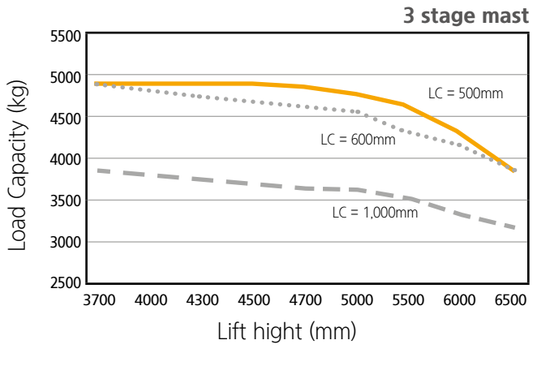
45D-9VB



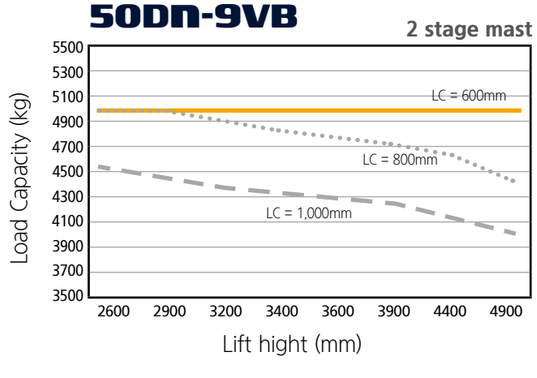


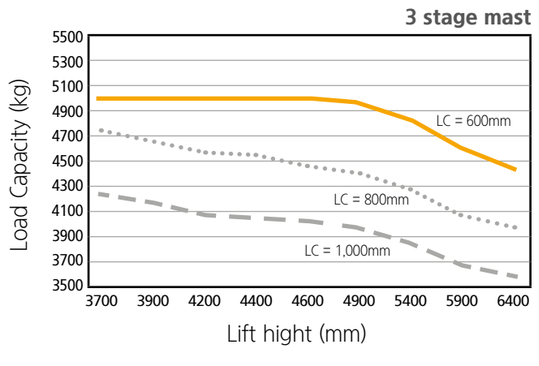
50DN-9VC





50DN-9VB





MAST SPECIFICATION

40D-9VC

Mast Type		Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Mast Tilt		Load capacity without Sideshift				Load capacity with Sideshift				Truck Weight (Unloaded)			
				Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire		Double Tire		Single Tire		Double Tire		Single Tire		Double Tire	
														20 in LC	500mm LC	20 in LC	500mm LC	24 in LC	600mm LC	24 in LC	600mm LC				
		in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
2 Stage Limited Free Lift	V270	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	12,826	5,818	13,164	5,971
	V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	12,899	5,851	13,234	6,003
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,920	4,000	9,000	4,000	12,976	5,886	13,313	6,039
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,796	3,990	8,950	4,000	13,027	5,909	13,364	6,062
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,664	3,930	8,818	4,000	13,069	5,928	13,408	6,082
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,488	3,850	8,620	3,910	13,164	5,971	13,502	6,124
	V430	170.1	4,320	117.9	2,995	117.3	2,980	4.7	120	4.7	120	8	10	8,815	4,000	9,000	4,000	8,311	3,770	8,488	3,850	13,296	6,031	13,574	6,157
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	8,770	3,980	9,000	4,000	8,157	3,700	8,333	3,780	13,413	6,084	13,750	6,237
	V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	8,465	3,840	8,708	3,950	7,871	3,570	8,047	3,650	13,525	6,135	13,863	6,288
2 Stage Full Free Lift	VF280	110.4	2,805	84.1	2,135	83.5	2,120	36.7	931	49.5	1,258	8	8	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	12,917	5,859	13,248	6,009
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	40.6	1,031	53.5	1,358	8	8	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	12,974	5,885	13,306	6,035
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	44.1	1,121	57.0	1,448	8	8	9,000	4,000	9,000	4,000	8,970	4,000	9,000	4,000	13,016	5,904	13,348	6,055
3 Stage Full Free Lift	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	32.4	822	45.2	1,149	8	8	9,000	4,000	9,000	4,000	8,532	3,870	8,686	3,940	13,393	6,075	13,730	6,228
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	36.3	922	49.2	1,249	8	8	9,000	4,000	9,000	4,000	8,356	3,790	8,510	3,860	13,459	6,105	13,796	6,258
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	40.2	1,022	53.1	1,349	8	8	8,995	3,990	9,000	4,000	8,179	3,710	8,333	3,780	13,528	6,136	13,865	6,289
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	42.6	1,082	55.5	1,409	8	8	8,685	3,940	8,818	4,000	8,069	3,660	8,223	3,730	13,569	6,155	13,906	6,308
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	46.1	1,172	59.0	1,499	8	8	8,530	3,870	8,774	3,980	7,937	3,600	8,113	3,680	13,649	6,191	13,986	6,344
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	50.1	1,272	63.0	1,599	8	6	8,355	3,790	8,598	3,900	7,782	3,530	7,937	3,600	13,700	6,214	14,037	6,367
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	57.2	1,452	70.0	1,779	8	6	8,065	3,660	8,311	3,770	7,518	3,410	7,672	3,480	13,834	6,275	14,172	6,428
	TF/TS600	237.4	6,030	112.0	2,845	111.4	2,830	64.3	1,632	77.1	1,959	8	6	7,340	3,330	7,804	3,540	7,033	3,190	7,187	3,260	13,986	6,344	14,323	6,497
	TF/TS650	257.5	6,540	119.1	3,025	118.5	3,010	71.3	1,812	84.2	2,139	8	6	7,055	3,200	7,452	3,380	6,768	3,070	6,856	3,110	14,077	6,385	14,415	6,538

45D-9VC

Mast Type		Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Mast Tilt		Load capacity without Sideshift				Load capacity with Sideshift				Truck Weight (Unloaded)			
				Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire		Double Tire		Single Tire		Double Tire		Single Tire		Double Tire	
														20 in LC	500mm LC	20 in LC	500mm LC	24 in LC	600mm LC	24 in LC	600mm LC				
		in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
2 Stage Limited Free Lift	V270	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	13,779	6,250	14,061	6,378
	V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	13,858	6,286	14,121	6,405
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	13,878	6,295	14,143	6,415
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	9,899	4,490	9,899	4,490	13,913	6,311	14,169	6,427
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	9,766	4,430	9,766	4,430	13,949	6,327	14,213	6,447
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	9,546	4,330	9,568	4,340	14,043	6,370	14,307	6,490
	V430	170.1	4,320	117.9	2,995	117.3	2,980	4.7	120	4.7	120	8	10	9,921	4,500	10,000	4,500	9,370	4,250	9,392	4,260	14,132	6,410	14,418	6,540
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	9,877	4,480	9,940	4,500	9,215	4,180	9,237	4,190	14,290	6,482	14,555	6,602
	V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	9,546	4,330	9,612	4,360	8,907	4,040	8,929	4,050	14,403	6,533	14,667	6,653
2 Stage Full Free Lift	VF280	110.4	2,805	84.1	2,135	83.5	2,120	36.1	916	48.9	1,243	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	13,717	6,222	14,052	6,374
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	40.0	1,016	52.9	1,343	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	13,774	6,248	14,109	6,400
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	43.5	1,106	56.4	1,433	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	13,817	6,267	14,152	6,419
3 Stage Full Free Lift	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	31.8	807	44.6	1,134	8	8	10,000	4,500	10,000	4,500	9,612	4,360	9,634	4,370	14,270	6,473	14,535	6,593
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	35.7	907	48.6	1,234	8	8	10,000	4,500	10,000	4,500	9,414	4,270	9,436	4,280	14,336	6,503	14,601	6,623
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	39.6	1,007	52.5	1,334	8	8	9,877	4,480	10,000	4,500	9,215	4,180	9,237	4,190	14,405	6,534	14,670	6,654
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	42.0	1,067	54.9	1,394	8	8	9,766	4,430	9,833	4,460	9,105	4,130	9,127	4,140	14,446	6,553	14,711	6,673
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	45.6	1,157	58.4	1,484	8	8	9,612	4,360	9,678	4,390	8,973	4,070	8,995	4,080	14,527	6,589	14,792	6,709
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	49.5	1,257	62.4	1,584	8	6	9,414	4,270	9,502	4,310	8,796	3,990	8,818	4,000	14,578	6,612	14,842	6,732
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	56.6	1,437	69.4	1,764	8	6	9,105	4,130	9,171	4,160	8,488	3,850	8,510	3,860	14,712	6,673	14,977	6,794
	TF/TS600	237.4	6,030	112.0	2,845	111.4	2,830	63.7	1,617	76.5	1,944	8	6	8,554	3,880	8,620	3,910	7,981	3,620	8,003	3,630	14,863	6,742	15,128	6,862
	TF/TS650	257.5	6,540	119.1	3,025	118.5	3,010	70.7	1,797	83.6	2,124	8	6	7,297	3,310	8,289	3,760	7,033	3,190	7,672	3,480	14,955	6,783	15,220	6,904

50DN-9VC

Mast Type		Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Mast Tilt		Load capacity without Sideshift				Load capacity with Sideshift				Truck Weight (Unloaded)			
				Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire		Double Tire		Single Tire		Double Tire		Single Tire		Double Tire	
														20 in LC	500mm LC	20 in LC	500mm LC	24 in LC	600mm LC	24 in LC	600mm LC				
		in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
2 Stage Limited Free Lift	V270	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	14,804	6,715	15,060	6,831
	V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	14,846	6,734	15,124	6,860
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	14,861	6,741	15,189	6,890
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	14,894	6,756	15,240	6,913
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	14,916	6,766	15,284	6,933
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	10,803	4,900	10,913	4,950	14,988	6,798	15,378	6,975
	V430	170.1	4,320	115.9	2,945	117.3	2,980	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	10,604	4,810	10,714	4,860	15,097	6,848	15,450	7,008
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	11,000	4,990	11,000	4,990	10,428	4,730	10,538	4,780	15,236	6,911	15,626	7,088
	V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	10,781	4,890	10,957	4,970	10,097	4,580	10,207	4,630	15,349	6,962	15,739	7,139
2 Stage Full Free Lift	VF280	110.4	2,805	84.1	2,135	83.5	2,120	33.6	853	56.8	1,442	8	8	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	14,729	6,681	15,119	6,858
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	37.5	953	60.7	1,542	8	8	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	14,786	6,707	15,176	6,884
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	41.1	1,043	63.1	1,602	8	8	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	14,829	6,726	15,219	6,903
3 Stage Full Free Lift	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	31.3	796	43.9	1,114	8	8	11,000	4,990	11,000	4,990	10,891	4,940	11,000	4,990	15,216	6,902	15,611	7,081
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	35.3	896	47.8	1,214	8	8	11,000	4,990	11,000	4,990	10,670	4,840	10,759	4,880	15,282	6,932	15,677	7,111
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	39.2	996	51.7	1,314	8	8	11,000	4,990	11,000	4,990	10,450	4,740	10,560	4,790	15,351	6,963	15,746	7,142
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	41.6	1,056	54.1	1,374	8	8	11,000	4,990	11,000	4,990	10,318	4,680	10,428	4,730	15,392	6,982	15,787	7,161
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	45.1	1,145	58.4	1,484	8	8	10,869	4,930	11,000	4,990	10,163	4,610	10,274	4,660	15,473	7,018	15,868	7,198
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	49.1	1,246	61.6	1,564	8	6	10,648	4,830	10,825	4,910	9,965	4,520	10,075	4,570	15,524	7,041	15,919	7,221
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	56.1	1,426	68.7	1,744	8	6	10,296	4,670	10,450	4,740	9,634	4,370	9,744	4,420	15,658	7,103	16,054	7,282
	TF/TS600	237.4	6,030	112.0	2,845	111.4	2,830	63.2	1,606	75.7	1,924	8	6	9,678	4,390	9,833	4,460	9,061	4,110	9,149	4,150	15,809	7,171	16,204	7,350
	TF/TS650	257.5	6,540	119.1	3,025	118.5	3,010	70.3	1,786	82.8	2,104	8	6	8,598	3,900	9,480	4,300	8,289	3,760	8,818	4,000	15,901	7,213	16,296	7,392

MAST SPECIFICATION

35D-9VB

Mast Type		Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Mast Tilt		Load capacity without Sideshift								Load capacity with Sideshift								Truck Weight (Unloaded)			
				Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire				Double Tire				Single Tire				Double Tire				Single Tire		Double Tire	
														24 in LC		600mm LC		24 in LC		600mm LC		24 in LC		600mm LC		24 in LC		600mm LC					
		in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
2 Stage Limited Free Lift	V270	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,826	5,818	13,164	5,971								
	V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,899	5,851	13,234	6,003								
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,976	5,886	13,313	6,039								
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	13,027	5,909	13,364	6,062								
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	13,069	5,928	13,408	6,082								
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	7,870	3,500	8,000	3,500	13,164	5,971	13,502	6,124								
	V430	170.1	4,320	117.9	2,995	117.3	2,980	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	7,700	3,500	7,830	3,500	13,296	6,031	13,574	6,157								
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	8,000	3,500	8,000	3,500	7,600	3,470	7,730	3,500	13,413	6,084	13,750	6,237								
	V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	7,870	3,500	8,000	3,500	7,340	3,350	7,490	3,420	13,525	6,135	13,863	6,288								
2 Stage Full Free Lift	VF280	110.4	2,805	84.1	2,135	83.5	2,120	36.7	931	49.5	1,258	8	8	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,917	5,859	13,248	6,009								
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	40.6	1,031	53.5	1,358	8	8	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,974	5,885	13,306	6,035								
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	44.1	1,121	57.0	1,448	8	8	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	13,016	5,904	13,348	6,055								
3 Stage Full Free Lift	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	32.4	822	45.2	1,149	8	8	8,000	3,500	8,000	3,500	7,930	3,500	8,000	3,500	13,393	6,075	13,730	6,228								
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	36.3	922	49.2	1,249	8	8	8,000	3,500	8,000	3,500	7,760	3,500	7,890	3,500	13,459	6,105	13,796	6,258								
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	40.2	1,022	53.1	1,349	8	8	8,000	3,500	8,000	3,500	7,600	3,470	7,740	3,500	13,528	6,136	13,865	6,289								
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	42.6	1,082	55.5	1,409	8	8	8,000	3,500	8,000	3,500	7,510	3,430	7,650	3,490	13,569	6,155	13,906	6,308								
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	46.1	1,172	59.0	1,499	8	8	7,930	3,500	8,000	3,500	7,400	3,380	7,540	3,440	13,649	6,191	13,986	6,344								
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	50.1	1,272	63.0	1,599	8	6	7,780	3,500	7,970	3,500	7,250	3,310	7,390	3,380	13,700	6,214	14,037	6,367								
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	57.2	1,452	70.0	1,779	8	6	7,510	3,430	7,730	3,500	7,010	3,200	7,160	3,270	13,834	6,275	14,172	6,428								
	TF/TS600	237.4	6,030	112.0	2,845	111.4	2,830	64.3	1,632	77.1	1,959	8	6	7,070	3,230	7,270	3,320	6,590	3,010	6,720	3,070	13,986	6,344	14,323	6,497								
	TF/TS650	257.5	6,540	119.1	3,025	118.5	3,010	71.3	1,812	84.2	2,139	8	6	6,810	3,110	6,940	3,170	6,340	2,900	6,420	2,930	14,077	6,385	14,415	6,538								

45D-9VB

Mast Type		Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Mast Tilt		Load capacity without Sideshift								Load capacity with Sideshift								Truck Weight (Unloaded)			
				Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire				Double Tire				Single Tire				Double Tire				Single Tire		Double Tire	
														24 in LC		600mm LC		24 in LC		600mm LC		24 in LC		600mm LC		24 in LC		600mm LC					
		in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
2 Stage Limited Free Lift	V270	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,804	6,715	15,060	6,831								
	V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,846	6,734	15,124	6,860								
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,861	6,741	15,189	6,890								
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,894	6,756	15,240	6,913								
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,400	14,916	6,766	15,284	6,933								
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,988	6,798	15,378	6,975								
	V430	170.1	4,320	115.9	2,945	117.3	2,980	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	9,920	4,500	9,870	4,500	15,097	6,848	15,450	7,008								
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	10,000	4,500	10,000	4,500	9,720	4,440	9,811	4,480	15,236	6,911	15,626	7,088								
	V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	10,000	4,500	10,000	4,500	9,410	4,300	9,500	4,340	15,349	6,962	15,739	7,139								
2 Stage Full Free Lift	VF280	110.4	2,805	84.1	2,135	83.5	2,120	33.6	853	56.8	1,442	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,729	6,681	15,119	6,858								
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	37.5	953	60.7	1,542	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,786	6,707	15,176	6,884								
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	41.1	1,043	63.1	1,602	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,829	6,726	15,219	6,903								
3 Stage Full Free Lift	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	31.3	796	43.9	1,114	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	15,216	6,902	15,611	7,081								
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	35.3	896	47.8	1,214	8	8	10,000	4,500	10,000	4,500	9,920	4,500	10,000	4,500	15,282	6,932	15,677	7,111								
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	39.2	996	51.7	1,314	8	8	10,000	4,500	10,000	4,500	9,720	4,440	9,810	4,480	15,351	6,963	15,746	7,142								
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	41.6	1,056	54.1	1,374	8	8	10,000	4,500	10,000	4,500	9,610	4,390	9,700	4,430	15,392	6,982	15,787	7,161								
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	45.1	1,145	58.4	1,484	8	8	10,000	4,500	10,000	4,500	9,480	4,320	9,560	4,370	15,473	7,018	15,868	7,198								
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	49.1	1,246	61.6	1,564	8	6	9,920	4,500	10,000	4,500	9,300	4,250	9,390	4,290	15,524	7,041	15,919	7,221								
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	56.1	1,426	68.7	1,744	8	6	9,590	4,380	9,740	4,440	9,010	4,110	9,080	4,150	15,658	7,103	16,054	7,282								
	TF/TS600	237.4	6,030	112.0	2,845	111.4	2,830	63.2	1,606	75.7	1,924	8	6	9,060	4,130	9,190	4,190	8,480	3,880	8,570	3,910	15,809	7,171	16,204	7,350								
	TF/TS650	257.5	6,540	119.1	3,025	118.5	3,010	70.3	1,786	82.8	2,104	8	6	8,550	3,860	8,860	4,040	8,200	3,740	8,260	3,770	15,901	7,213	16,296	7,392								

40D-9VB

Mast Type		Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Mast Tilt		Load capacity without Sideshift								Load capacity with Sideshift								Truck Weight (Unloaded)			
				Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire				Double Tire				Single Tire				Double Tire				Single Tire		Double Tire	
														24 in LC		600mm LC		24 in LC		600mm LC		24 in LC		600mm LC		24 in LC		600mm LC					
		in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
2 Stage Limited Free Lift	V270	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,779	6,250	14,061	6,378								
	V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,858	6,286	14,121	6,405								
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,878	6,295	14,143	6,415								
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,913	6,311	14,169	6,427								
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	8,888	4,000	13,949	6,327	14,213	6,447								
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,860	4,000	8,775	4,000	14,043	6,370	14,307	6,490								
	V430	170.1	4,320	117.9	2,995	117.3	2,980	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,700	3,980	8,663	3,980	14,132	6,410	14,418	6,540								
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	9,000	4,000	9,000	4,000	8,560	3,910	8,550	3,920	14,290	6,482	14,555	6,602								
	V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	8,860	4,000	8,930	4,000	8,290	3,790	8,325	3,790	14,403	6,533	14,667	6,653								
2 Stage Full Free Lift	VF280	110.4	2,805	84.1	2,135	83.5	2,120	36.1	916	48.9	1,243	8	8	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,717	6,222	14,052	6,374								
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	40.0	1,016	52.9	1,343	8	8	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,774	6,248	14,109	6,400								
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	43.5	1,106	56.4	1,433	8	8	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,817	6,267	14,152	6,419								
3 Stage Full Free Lift	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	31.8	807	44.6	1,134	8	8	9,000	4,000	9,000	4,000	8,910	4,000	8,888	4,000	14,270	6,473	14,535	6,593								
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	35.7	907	48.6	1,234	8	8	9,000	4,000	9,000	4,000	8,730	3,990	8,663	4,000	14,336	6,503	14,601	6,623								
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	39.6	1,007	52.5	1,334	8	8	9,000	4,000	9,000	4,000	8,580	3,910	8,550	3,920	14,405	6,534	14,670	6,654								
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	42.0	1,067	54.9	1,394	8	8	9,000	4,000	9,000	4,000	8,470	3,870	8,550	3,870	14,446	6,553	14,711	6,673								
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	45.6	1,157	58.4	1,484	8	8	8,930	4,000	8,970	4,000	8,360	3,810	8,438	3,820	14,527	6,589	14,792	6,709								
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	49.5	1,257	62.4	1,584	8	6	8,750	4,000	8,820	4,000	8,200	3,740	8,213	3,750	14,578	6,612	14,842	6,732								
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	56.6	1,437	69.4	1,764	8	6	8,470	3,870	8,530	3,900	7,940	3,620	7,700	3,630	14,712	6,673	14,977	6,794								
	TF/TS600	237.4	6,030	112.0	2,845	111.4	2,830	63.7	1,617	76.5	1,944	8	6	7,880	3,650	8,050	3,670	7,480	3,410	7,480	3,410	14,863	6,742	15,128	6,862								
	TF/TS650	257.5	6,540	119.1	3,025	118.5	3,010	70.7	1,797	83.6	2,124	8	6	7,320	3,310	7,740	3,530	7,210	3,290	7,260	3,280	14,955	6,783	15,220	6,904								

50DM-9VB

Mast Type		Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Mast Tilt		Load capacity without Sideshift								Load capacity with Sideshift								Truck Weight (Unloaded)			
				Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	Single Tire				Double Tire				Single Tire				Double Tire				Single Tire		Double Tire	
														24 in LC		600mm LC		24 in LC		600mm LC		24 in LC		600mm LC		24 in LC		600mm LC					
		in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
2 Stage Limited Free Lift	V260	103.5	2,630	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,708	7,125	15,975	7,246								
	V290	115.4	2,930	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,741	7,140	16,014	7,264								
	V320	127.2	3,230	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,765	7,151	16,052	7,281								
	V340	135.0	3,430	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,789	7,162	16,084	7,295								
	V360	142.9	3,630	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,825	7,178	16,120	7,312								
	V390	154.7	3,930	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,903	7,214	16,198	7,347								
	V440	174.4	4,430	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	11,000	4,990	11,000	4,990	10,670	4,870	10,840	4,950	16,131	7,317	16,426	7,451								
	V490	194.1	4,930	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	11,000	4,990	11,000	4,990	10,360	4,730	10,530	4,810	16,224	7,359	16,519	7,493								
2 Stage Full Free Lift	VF270	106.4	2,702	84.1	2,135	83.5	2,120	35.6	905	48.1	1,223	8	8	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,754	7,146	16,041	7,276								
	VF290	114.3	2,902	88.0	2,235	87.4	2,220	39.6	1,005	52.1	1,323	8	8	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,809	7,171	16,096	7,301								
	VF305	120.2	3,052	91.5	2,325	90.9	2,310	43.1	1,095	55.6	1,413	8	8	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	15,849	7,189	16,136	7,319								
3 Stage Full Free Lift	TF/TS360	144.6	3,672	80.1	2,035	79.5	2,020	31.8	807	42.3	1,074	8	8	11,000	4,990	11,000	4,990	11,000	4,990	11,000	4,990	16,160	7,330	16,429	7,452								
	TF/TS390	156.4	3,972	84.1	2,135	83.5	2,120	35.7	907	46.2	1,174	8	8	11,000	4,990	11,000	4,990	10,840	4,950	11,000	4,990	16,218	7,356	16,487	7,478								
	TF/TS420	168.2	4,272	88.0	2,235	87.4	2,220	39.6	1,007	50.2	1,274	8	8	11,000	4,990	11,000	4,990	10,620	4,850	10,800	4,930	16,273	7,381	16,542	7,503								
	TF/TS440	175.3	4,452	90.4	2,295	89.8	2,280	42.0	1,067	52.5	1,334	8	8	11,000	4,990	11,000	4,990	10,530	4,810	10,710	4,890	16,309	7,398	16,578	7,519								
	TF/TS460	183.5	4,662	93.9	2,385	93.3	2,370	45.5	1,157	56.1	1,424	8	8	11,000	4,990	11,000	4,990	10,400	4,750	10,580	4,830	16,361	7,421	16,630	7,543								
	TF/TS490	195.4	4,962	97.8	2,485	97.2	2,470	49.5	1,257	60.0	1,524	8	6	10,860	4,960	11,000	4,990	10,200	4,670	10,400	4,750	16,417	7,446	16,685	7,568								
	TF/TS540	215.0	5,462	104.9	2,665	104.3	2,650	56.6	1,437	67.1	1,704	8	6	10,560	4,820	10,800	4,930	9,940	4,530	10,110	4,610	16,531	7,498	16,800	7,620								
	TF/TS590	235.1	5,972	112.0	2,845	111.4	2,830	63.6	1,617	74.2	1,884	8	6	10,000	4,560	10,750	4,910	9,410	4,290	10,070	4,600	16,620	7,539	16,888	7,660								
	TF/TS640	255.2	6,482	119.1	3,025	118.5	3,010	70.7	1,797	81.3	2,064	8	6	9,700	4,430	10,470	4,780	9,120	4,170	9,810	4,480	16,711	7,580	16,980	7,702								

STANDARD & OPTION

	Part	Description	40D-9VC 35D-9VB	45D-9VC 40D-9VB	50DN-9VC 45D-9VB	50DN-9VB
OPERATION ROOM	OHG	Overhead Guard *40D-9VC, 35D-9VB : 2,350mm / 45D-9VC, 50DN-9VC, 40/45D-9VB, 50DN-9VB : 2,340mm	●	●	●	●
		Overhead guard with Rain Cover *40D-9VC, 35D-9VB : 2,360mm / 45D-9VC, 50DN-9VC, 40/45D-9VB, 50DN-9VB : 2,350mm	○	○	○	○
		Low Overhead guard with Rain Cover *40D-9VC, 35D-9VB : 2,230mm / 45D-9VC, 50DN-9VC, 40/45D-9VB, 50DN-9VB : 2,220mm	○	○	○	○
	Cabin	Cabin Options - One door, Two door	○	○	○	○
		Partial Cabin - Front glass with Wiper, Rear glass & Top Rain Cover	○	○	○	○
	A/C	Air Conditioner and/or Heater	○	○	○	○
	Seat	Full Suspension Synthetic leather Seat + Orange Belt, Seat Switch	●	●	●	●
		Additional options for Full Suspension Seat - Arm Rest, Back Rest, Belt Switch, Heat	○	○	○	○
		Non Suspension Seat + Orange Belt, Seat Switch	○	○	○	○
		Additional options for Non Suspension Seat - Belt Switch	○	○	○	○
	Lever	Lever - Manual	●	●	●	●
		Lever - Finger Tip	○	○	○	○
	Ect.	Radio & USB	○	○	○	○
		Rear Horn	○	○	○	○
		Extinguisher	○	○	○	○
MAST & ATTACHMENT	Mast	2 Stage mast - Standard(V)	●	●	●	●
		2 Stage mast - Single full free(VF)	○	○	○	○
		3 Stage mast - Single full free(TF), Dual full free(TS)	○	○	○	○
	Fork	1,220mm Fork for 40/45D-9VC, 50DN-9VC, 35/40/45D-9VB, 1,200mm Fork for 50DN-9VB	●	●	●	●
		Fork Options - 900mm~2,300mm	○	○	○	○
	Carriage	Carriage - Narrow(1,300mm/Hook)	●	●	●	●
		Carriage options - Class Ⅳ	-	-	○	○
		- Narrow(1,330mm/Shaft)	○	○	○	○
		- Wide(1,600mm/Hook)	○	○	○	○
		- Wide(1,700mm/Shaft)	○	○	○	○
		- Special(1,460mm/Shaft)	○	○	○	○
	Attachment	Cascade Side Shift	○	○	○	○
		Hyundai Side Shift	○	○	○	○
		Hyundai Fork Positioner – Independent	○	○	○	○
HYDRAULICS	MCV & Hoses	3 Spool MCV + attached piping for V330 mast	●	●	●	●
		MCV Options - 4 Spool (only for manual lever)	○	○	○	○
		MCV Options - 5 Spool (only for manual lever)	○	○	○	○
		Attached Piping for All MCVs & Masts	○	○	○	○
TIRE	Tires	Tire - Pneumatic(Single for 40D-9VC, 35D-9VB, Double for 45D-9VC, 50DN-9VC, 40/45D-9VB, 50DN-9VB) * Wheel rim size : Single 15", Double 16"	●	●	●	●
		Tire Options	-	-	-	-
		- Solid	○	○	○	○
		- Non Marking	○	○	○	○
		- Front Pneumatic + Rear Solid	○	○	○	○
		- Front Solid + Rear Pneumatic	○	○	○	○
		- Pneumatic Double(15" wheel rim)	○	○	○	○
		- Solid Double(15" wheel rim)	○	○	○	○
VISIBILITY	Lamp	Working Lamp - Front Bulb	●	●	●	●
		Working Lamp Options - Front LED, Rear LED, Rear Bulb	○	○	○	○
		Rear Blue Spot	○	○	○	○
		LED Beacon Lamp	○	○	○	○
	Mirror	Mirror - Panorama	●	●	●	●
		Mirror Options - L/H & R/H Back Mirror, Outside Mirror	○	○	○	○
	Camera	Rear Camera only	○	○	○	○
CONVENIENCE	-	Knob-Switch with Direction & Horn	●	●	●	●
		Auto Tilt (Manual lever)	○	○	○	○
		Load Sensor	○	○	○	○
		Hydraulic Pressure Display	●	●	●	●
SAFETY	-	OPSS - Travel & Mast	●	●	●	●
		Master Switch to cut off electricty from battery	●	●	●	●
		Hazard Switch	○	○	○	○
OTHERS	-	Plastic Side Cover	●	●	●	●
		Steel Side Cover	○	○	○	○
		Rear Tire Cover	●	●	●	●
		Under Cover	○	○	○	○
		Fuel Cap with Key	●	●	●	●
		Hydraulic Oil - ISO VG46 (Hyundai genuine long life hydraulic oil)	●	●	●	●
		Hydraulic Oil Options - ISO VG68 for Tropical, ISO VG32 Cold Area (Hyundai genuine long life hydraulic oil) ISO VG15 Cold Area (Conventional hydraulic oil)	○	○	○	○
		Accumulator	○	○	○	○

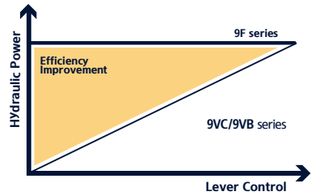
● : STD / ○ : OPT

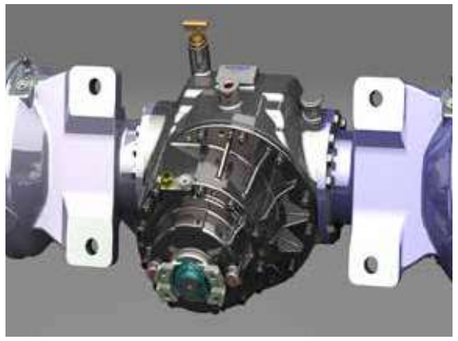
PRODUCT FEATURE

Main hydraulic component



Variable Piston Pump　　Load sensing MCV





Productivity & Durability

- The 9VB series is equipped with an HMC 54.4kW diesel engine, which meets EU Stage5 regulations on gas and achieves both environment friendly and cost saving effects due to its low fuel consumption rates.
- The TCO is dramatically reduced: A load sensing (piston pump) type hydraulic system with an optimized engine is applied.
  → Improvement of fuel efficiency and workflow : 16.7% and 4%, respectively.
- The power transmission capability of clutch pack is improved by 25%, T/M oil is increased by 4L, and durability under heavy load operation is expanded.
- Extended wheel base Running stability and continuous working hours are improved, and temperature increase risk during operation is reduced.

Enhanced Safety

- Auto Parking Brake: When the engine stops, the parking brake works automatically to prevent safety accidents caused by human error.
- HAC (Hill Start Assist Control): Backsliding is prevented upon restarting on a slide.
- OPSS (simultaneously operated with Auto Parking): Driving, lifting, and tilting are restricted when the operator leaves the driver's seat.
- Password setting: Unauthorized use of forklifts is prohibited.



Outstanding Operability

- The optimized size of the engine and LS hydraulic system reduce noise andvibration to the operator.
- Reduced handle diameter and the Danfoss 4th generation Obitrol are applied to improve steering, reduce noise, and improve the reverse rotation jam.
- Deluxe suspension seat : Cushion adjustment and ELR seat belt of Grammer seats are used.
- New fingertip (OPT), which has built in Dither control and controller current feedback systems, ensures improved response time, fine tuning, and adaptability to usage temperature.



Easy Service

- Maintenance of the exhaust gas aftertreatment device is done with screen disassembly only, without weight removal.
- Engine diagnosis without any additional diagnostic tool and consumables replacing interval setting.
- Improved maintainability, thanks to a horizontally placed MCV with an embedded emergency lowering screw.
- Waterproof and dustproof fuse & relay box to prevent dust or water contamination.