

Standard & Option

Details			35/45/ 50D(n)-9VB	Details			35/45/ 50D(n)-9VB			
OPERATION ROOM	OHG & Cabin	Overhead Guard - Standard		●	HYDRAULIC	MCV & Piping	3 Spool MCV		●	
		Overhead Guard - High		○			4 Spool MCV		○	
		Overhead Guard - Standard & with Rain Cover		○			5 Spool MCV		○	
		Overhead Guard - High & with Rain Cover		○			Attached Piping for All MCVs & Masts		○	
		Cabin Options (One Door, Two Door)		○	TIRE	Tires	Pneumatic		●	
		Partial Cabin (Front Glass with Wiper, Rear Glass & Top Rain Cover)		○			Solid		○	
	A/C	A/C & Heater, Heater only		○			Non-Marking		○	
							Front Pneumatic + Rear Solid		○	
	Seat	Non-susp., OPSS, Orange Belt, S/S, B/S, PVC, Interlock Option Available		●			Front Solid + Rear Pneumatic		○	
		Grammer, OPSS, Orange Belt, S/S, PVC		○			Front Double (16inch)		○	
		Grammer, OPSS, Orange Belt, S/S, B/S, Arm Rest, PVC, Interlock Option Available		○		Front Double (15inch)		○		
		Grammer, OPSS, Orange Belt, S/S, Arm Rest, PVC		○		VISIBILITY	LED Work Lamp	Front LED		●
		Grammer, OPSS, Orange Belt, S/S, B/S, Arm Rest(LH), PVC, Interlock Option Available		○				Front & Rear LED		○
		Grammer, OPSS, Orange Belt, S/S, Arm Rest, PVC, Heat		○				Front LED & Rear Blue Spot		○
		Grammer, OPSS, Orange Belt, S/S, Arm Rest, PVC, Heat		○	Safety Lamp		LED Beacon Lamp		●	
		Grammer, OPSS, Orange Belt, S/S, Arm Rest, PVC, Heat, Back Rest Extension		○			Mirror	Panorama Mirror		●
		Grammer, OPSS, Orange Belt, S/S, B/S, PVC, Interlock Option Available		○	Panorama Mirror & Side Mirror LH/RH			○		
		Grammer, OPSS, Orange Belt, S/S, B/S, Arm Rest, Fabric, Interlock Option Available		○	Panorama Mirror & Outside Mirror LH/RH			○		
	Grammer, OPSS, Orange Belt, S/S, B/S, Arm Rest(LH), Fabric, Interlock Option Available		○	Panorama Mirror & Side Mirror LH/RH & Outside Mirror LH/RH		○				
	Lever		Lever - General	●	CONVENIENCE	-	Knob-Switch with Direction & Horn		○	
Other Options	Rear Horn		○	Master Switch to Cut off Electricity from Battery			○			
	Extinguisher		○	Hazard Switch			○			
Mast	2 Stage Mast - Standard (V)		●	Auto Tilt			○			
	2 Stage Mast - Single Full Free (VF)		○	Load Sensor			○			
	3 Stage Mast - Single Full Free (TF)		○	Radio & USB			○			
	3 Stage Mast - Dual Full Free (TS)		○							
Fork	Length : 48"(1,220mm)		●	OTHERS	-	Fuel Cap with Key		○		
	Length : 42"(1,070mm), 54"(1,370mm), 60"(1,520mm), 66"(1,670mm), 72"(1,820mm), 77"(1,970mm), 83"(2,120mm), 94"(2,400mm)		○			RMS(Remote Management System)-Mobile		○		
Carriage	Type	Hook				●	Hi-Mate Premium		○	
		Integral Shaft				○	Hyd. Oil Std. VG 46		●	
	Width	Narrow (For Single Tire)				●	Hyd. Oil Opt. VG 68 (Tropical) / 15 (Cold) / 32 (Cold)		○	
		Special (For Single Tire)				○	Accumulator		○	
		Wide (For Double Tire)				○	Under cover for Frame		○	
							Steel Side Cover		○	
Attachment	Side Shift		○			Hydraulic Oil Cooler		○		
	Side Shift with Fork Positioner (Synchronized or Independent)		○							

● STD / ○ OPT



35/45D
50DN-9VB

Internal Combustion Diesel Engine Forklift Truck



9V series satisfies our customers' demands through adaptation of HDI & HDX power train <Diesel engine for industrial vehicles, enhanced durability of transmission and drive axle> and enhanced driving comfort.

PRODUCT FEATURES OVERVIEW

**UP
VALUE**

As times change, the standard
for high performance should
also change

■ Applied new power train

13%

50Dn-9VB, 13% Improved top
travel speed

■ Increased wheel base

8%

50Dn-9VB, 400kg 8% Improved
tipping load & safety factor

Eco-friendly engine

- Stage 3A regulation satisfaction, powerful performance
 - HDI DN03 engine

Innovative cost-effectiveness and reliable durability

- HDX with improved capacity for heavy
duty and durability
 - Increased clutch capacity by 36%, oil volume by 70%
- HDX D/A with increased strength of the bevel gear set
and differential gear set
- Selection of engine working mode
 - 'STD / PWR'
- Increased wheel base
 - Improve travel & work efficiency

Enhanced safety

- Human error prevention - auto-parking brake system
- HAC (Hill Start Assist Control)
- OPSS - travel, lift, and tilt lock
- Forced seat belt wearing - seat belt interlock **Option**
- Engine start limit - password function

Outstanding operability ergonomics

- New digital-type cluster with MCU function
- Ergonomic pedal
 - Hanging-type brake and inching pedal
- Improved steering quality
 - Reduced operating force & jamming reduced
during reverse rotation
- New air conditioner with enhanced air flow **Option**
- New heater with defrost function **Option**

Easy service

- Tool-less type Floor plate & Side cover
- Additional features of the cluster with MCU
 - Engine failure diagnosis and history check
 - Management of consumable replacement cycle
- Remote management system - Hi-MATE **Option**
- Muffler management without weight disintegration
- Waterproof and dustproof fuse & relay box
- Horizontal placed MCV with an embedded emergency
lowering screw



35/45D
50Dn-9VB

Powerful & efficient HG Engine

HDI DN03 engine is the optimal engine that requires high torque in low rpm, and one that satisfies EU stage 3A emission regulation.

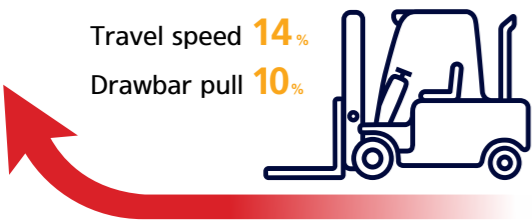
- * Use of BOSCH Fuel system: common rail & ECU, high pressure(1,800bar) injection
- * Use of timing chain : Superb durability
- * Easy maintenance : Apply fan belt auto-tensioner
- * **Rated power (ps/rpm) : 95.0 / 2,300**
- * **Max torque (kg-m/rpm) : 35.7 / 1,600**



Driving Performance

Maximum travel speed and drawbar pull are increased by 14% and 10%, respectively, by resetting rpm in the high-speed region of the engine and applying the gear of new transmission and drive axle of HDX.

Driving Performance(50Dn-9VB)



Increased wheel base - 4.5/5.0t

Wheel base of heavy-duty specifications (4.5/5.0 tons) is expanded by 100 mm to improve travel and work safety; the service life of the steering tire is extended, and the reliability of the steering system is improved. In addition, the capacity of the hydraulic oil tank is increased to reduce the effects of heat on the hydraulic system.



ENVIRONMENT FRIENDLY
GREAT PRODUCTIVITY, DURABILITY

UP
PERFORMANCE

Eco-friendly engine and powertrain with significantly increased performance and durability!

Experience newly changed performance.

New HDX Transmission

Power transfer capability of clutch pack and transmission oil volume are increased by 25% and 4 liters, respectively, by taking into account the continuous work environments of 2 shifts/day or more; the reverse gear, which is not frequently used, is configured in a single step to enhance durability and practicality. As a transmission controller, DCSR prevents failure of internal gear train caused by impact when changing the traveling direction between forwarding and reversing without halting vehicle operation.



New HDX Drive axle

Planetary reducing gear, final reduction system optimal for applications of significant torque variation applied; oil sump capacity designed to be larger for the rapid absorption and emission of braking heat. Maintenance-free auto parking system is configured on the front of the differential assembly.



Engine performance Up/Down

Drivers can select engine power according to their work environment conveniently with the STD/PWR button located on the dashboard. Moreover, they can save over 5.5% more in fuel cost when selecting STD mode than when selecting PWR mode.



35/45D
50Dn-9VB

Password setting – Startup restriction

A function of password input on the cluster applies for preventing safety accident or damage that may take place on the equipment when any unauthorized operator or administrator operates the equipment. (Up to ten passwords are allowed.)



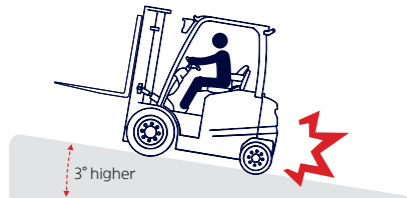
Auto-parking brake

When the engine stops or OPSS starts, the parking brake is automatically activated to prevent human errors. If the driver needs to use the parking brake while the engine is running, driver can apply/release the brake using a dedicated button.



Hill start assist control

When the forklift stops while climbing a sloped road, the automatic parking brake is temporarily applied to prevent the forklift from rolling back when moving again. This safety feature is very useful when transporting heavy cargo on a sloped road.



Seat belt interlock – forced belt wearing **Option**

The seat belt interlock system, which restricts forklift operation when the seat belt-wearing order is not observed or the operator releases the belt while driving, prevents operator injury from safety accidents that may occur when the seat belt is not fastened.



ENHANCED SAFETY

UP
SAFETY

Safety at the logistics site is most important, safety is supported by complete reliability

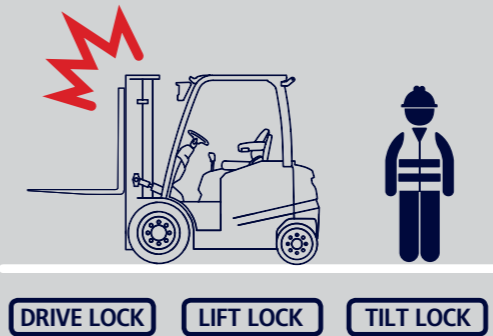
Speed limit

The maximum driving speed can be set to prevent accidents caused by exceeding the speed limit. Even though the maximum driving speed is set, hill-climbing ability and mast working performance are maintained at the highest level.



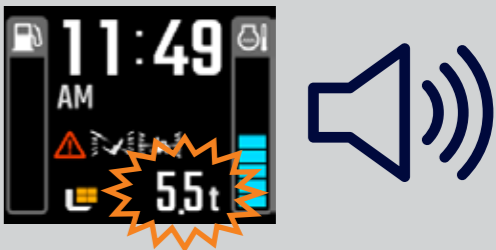
Operator presence sensing system

The OPSS restricts driving, lifting, and tilting in when the operator leaves the driver's seat in order to prevent safety accidents.



Overload operation warning – Load sensing system **Option**

Cargo weight measurement function configured with pressure sensor of lift line and cluster program provides real-time indication of weight of lifted cargo and prompts a warning on the cluster in case of overloading to remind the operator of safety.



35/45D 50Dn-9VB

Cabin Option

With wide field of vision and easy-to-open/shut cabin doors, D-9VB's cabin provides a pleasant driving environment. Furthermore, its modularized design reduces post management costs.



Air con / Heater Option

① The air conditioner has four air outlets that prevent the blow of cold air from being directed to a particular the body. And it is easy to perform maintenance work because the outdoor and indoor unit are integrated.

② The heaters supplies warm air separately to the operator's upper and lower body. A discharge port for removing moisture and frost has been added.



Multi-functional digital color monitor

The size of the key information displayed on the color LCD window is increased. Various additional features are also available as the MCU (master control unit for the forklift) is integrated with the cluster. Considering the Optionion selection by the customer, Hi-MATE support function and seat belt interlock module are installed.



Full-suspension seat – Grammer

The full suspension seat of Grammer of Germany has an adjustable cushion depending on the weight of the driver, and convenience specifications such as seat belt switch, arm rests, and heater are optional.



Ergonomic pedal - Hydraulic boosted brake pedal

The work pedal structure is changed to the hanging type and ergonomically rearranged in consideration of the driver's convenience. Moreover, braking force is improved compared to that of the existing systems by adding a hydraulic booster to the brake system.



OUTSTANDING OPERABILITY ERGONOMICS

CONVENIENCE^{UP}

Increasing work efficiency
to the next level with
consistent convenience in
any condition

Steering handle that is easy to operate

The diameter of the handle is reduced by 70mm to minimize the operator's fatigue and the Danfoss 4th generation Orbitrol is applied to reduce noise and improve the reverse rotation jam of the handle.



35/45D
50Dn-9VB

Larger maintenance space

A lager work space is provided for the follow-up management of consumables and major function parts when you open the engine hood) supported with two gas springs, tool less type side cover and floor plate.

Engine diagnosis and consumable maintenance

Engine failure can be checked in clusters without the need for a separate engine diagnostic tool, and the parts to be replaced are displayed in the cluster during operation when the replacement timing of all consumables requiring periodic maintenance is set in the cluster.

✖ Active Fault

DTC

0141

SPN

110

FMI

4

Engine Coolant Temperature Sensor voltage too Low

✖ Engine oil & filt..

Cycle

500

Elaps. Time

174

History

0

Fuse & Relay box

The fuse and relay, which are vulnerable to contamination, are installed in water- and dust-tight box that is in turn installed in the engine compartment to reduce the downtime for maintenance.



Detachable radiator cover

The plastic tool-less radiator sub-hood on top of the counterweight separated from the main hood reduces the downtime for checking the cooling water level and makeup.



EASY SERVICE

UP
MAINTENANCE

Easy maintenance and cost-effective after-sales service
Even though the work is finished, the satisfaction continues

Counter weight cover

To eliminate the inconvenience of removing the counterweight to inspect the aftertreatment device inside the weight, the opening of the counterweight has been expanded to the maximum extent possible. The aftertreatment device is accessible by removing the protective screen on the back of the counterweight.



Easy Service MCV

MCV, one of the major functional parts of the hydraulic system, is installed in a horizontal direction to allow the adjustment of hydraulic pressure and exchange of spool without opening the MCV assembly.
* Embedded flow regulator - Easy to regulate the lowering speed
* Embedded emergency screw - Allowing mast lowering in an emergency situation



Hi-MATE, a solution for field control based on data

Data collected at the sensors and modules mounted on equipment during the operation of forklift truck at the operation control system of Hyundai Industrial Vehicle is provided to the mobile device or computer of the customer in real time through the server of Hyundai Construction Equipment. Such visual data can be used for establishing a control plan for safety control in fields, productivity improvement, and cost saving.



Equipment operation management

* Real-time monitoring and follow-up management of individual vehicles, drivers, equipment on-site, and operation information

- Key-on time, travel hours, work hours, and traveling position



Equipment status management

* Supplying information of the forklift truck linked with operation hours, establishing a follow-up management plan

- Indicating fuel remainder, failure information
- Indicating consumable exchange timing, service timing



Safe traveling control

* Checking and follow-up management of safety accident caused by collision between the field system and forklift truck during operation

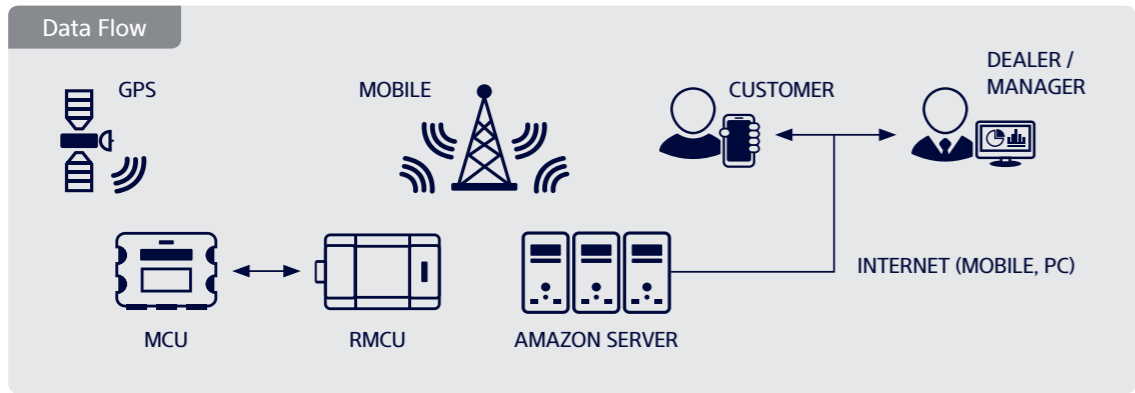
- Count of collision, size of impact



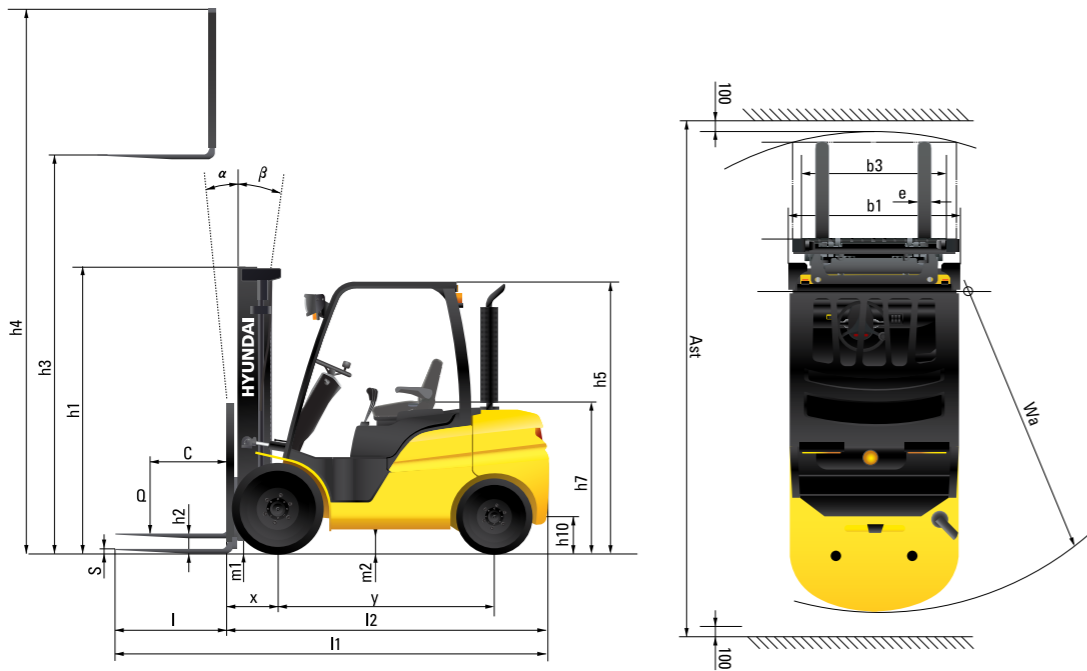
Human resource management

* Checking and follow-up management such as matching between self-diagnosis and equipment conditions before operation

- Driver authorization, self-diagnosis of equipment conditions



Dimension



Specification

Identification					
1.1	Manufacturer (Abbreviation)		Hyundai		
1.2	Manufacturer's Type Designation		35D-9VB (Stage 3A)	45D-9VB (Stage 3A)	50DN-9VB (Stage 3A)
1.3	Drive : Electric (Battery Or Mains), Diesel, Petrol, Fuel Gas		DIESEL	DIESEL	DIESEL
1.4	Type Of Operation: Hand, Pedestrian, Standing, Seated, Order-Picker		Seated	Seated	Seated
1.5	Load Capacity / Rated Load	kg	3,500	4,500	4,990
1.6	Load Center Distance	mm	600	600	600
1.8	Load Distance, Center Of Drive Axle To Fork	mm	561	561	576
1.9	Wheelbase	mm	2,030	2,100	2,100
Weights					
2.1	Service Weight	kg	5,931	6,937	7,278
2.2	Axle Loading, Loaded Front/Rear	kg	8,239/1,192	9,947/1,490	1,0719/1,560
2.3	Axle Loading, Unloaded Front/Rear	kg	2,737/3,194	2,959/3,978	2,919/4,360
Wheels, Chassis					
3.1	Tires : Solid Rubber, Superelastic, Pneumatic, Polyurethane		P	P	P
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	Wheels, Number Front / Rear (X = Driven Wheels)		2x2	4x2	4x2
3.6	Tread, Front	mm	1,132	1282	1,282
3.7	Tread, Rear	mm	1,140	1140	1,140
Basic Dimensions					
4.1	Tilt Of Mast/Fork Carriage Forward/Backward	degree	8/10	8/10	8/10
4.2	Height, Mast Lowered	mm	2,235	2,220	2,220
4.3	Free Lift	mm	120	120	120
4.4	Lift Height	mm	3,020	3,020	2,930
4.5	Height, Mast Extended	mm	4,234	4,234	4,145
4.7	Height Of Overhead Guard (Cabin)	mm	2,365	2,355	2,355
4.8	Seat Height / Stand Height Rel. To Sip	mm	1,310	1,300	1,300
4.12	Coupling Height	mm	372	360	360
4.19	Overall Length	mm	4,219	4,504	4,547
4.20	Length To Face Of Forks	mm	3,149	3,284	3,347
4.21	Overall Width	mm	1,370	1,746	1,746
4.22	Fork Dimensions	mm	50x122x1,070	50x150x1,220	60x150x1,200
4.23	Fork Carriage Iso 2328, Class / Type A, B		III/A	III/A	III/A
4.24	Fork-Carriage Width	mm	1,300	1,600	1,600
4.31	Ground Clearance, Below Mast, Loaded	mm	170	155	155
4.32	Ground Clearance, Center Of Wheelbase	mm	202	190	190
4.34.1	Aisle Width For Pallets 1000 X 1200 Crossways	mm	4,656	4,799	4,857
4.34.2	Aisle Width For Pallets 800 X 1200 Lengthways	mm	4,856	4,999	5,057
4.35	Turning Radius	mm	2,895	3,038	3,081
4.36	Smallest Pivot Point Distance	mm	1,023	1,074	1,074
Performance Data					
5.1	Travel Speed, Loaded / Unloaded	km/h	27.9/30.2	27.4/29.3	27.2/29.3
5.2	Lift Speed, Loaded / Unloaded	mm/s	545/560	545/560	475/480
5.3	Lowering Speed, Loaded / Unloaded	mm/s	570/540	570/540	490/490
5.6	Max. Drawbar Pull, Loaded / Unloaded	kgf	4,459/4,264	4,438/4,356	4,436/4,355
5.8	Max. Gradeability, Loaded / Unloaded	%	47.5/23.0	37.5/21.3	34.6/21.4
5.10	Service Brake		Hydraulic	Hydraulic	FOOT / HYDRAULIC
Combustion-Engine					
7.1	Engine Manufacturer / Type		HDI DN03	HDI DN03	HDI DN03
7.2	Engine Power Acc. To Iso 1585	PS/rpm	95/2,300	95/2,300	95/2,300
7.3	Maximum Torque	kgf · m/rpm	35.7/1,600	35.7/1,600	35.7/1,600
7.4	No. Of Cylinders / Displacement	EA/cc	4/3,409	4/3,409	4/3,409
Addition Data					
8.1	Type Of Drive Control		Power Shift	Power Shift	Power Shift
8.2	Operating Pressure, System / Attachments	kgf/cm ²	210/140	210/140	210/140
8.3	Oil Volume For Attachments	LPM	60	60	60
8.4	Sound Level At The Driver's Ear According To Din 12053	dB (A)	85	85	85
8.5	Trailer Coupling, Type Din		PIN	PIN	PIN

35D-9VB														
Mast Type		Maximum Fork Height	Overall Height (Lowered)		Free Lift Height		Tilt Angle		Load capacity without Side shift		Load capacity with Integral Side shift		Truck Weight (Unloaded)	
									Single Tire	Double Tire	Single Tire	Double Tire		
			Single Tire	Double Tire	With Load Backrest	Without Load Backrest	Fwd	Bwd	600mm LC	600mm LC	600mm LC	600mm LC	Single Tire	Double Tire
			mm	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg
2 Stage Limited Free Lift	V270	2,720	2,085	2,070	120	120	8	10	3,500	3,500	3,500	3,500	5,918	6,075
	V300	3,020	2,235	2,220	120	120	8	10	3,500	3,500	3,500	3,500	5,948	6,105
	V330	3,320	2,385	2,370	120	120	8	10	3,500	3,500	3,500	3,500	5,986	6,143
	V350	3,520	2,535	2,520	120	120	8	10	3,500	3,500	3,500	3,500	6,009	6,166
	V370	3,720	2,635	2,620	120	120	8	10	3,500	3,500	3,500	3,500	6,029	6,186
	V400	4,020	2,845	2,830	120	120	8	10	3,500	3,500	3,500	3,500	6,071	6,229
	V430	4,320	2,995	2,980	120	120	8	10	3,500	3,500	3,500	3,500	6,128	6,285
	V450	4,520	3,095	3,080	120	120	8	6	3,500	3,500	3,440	3,500	6,184	6,342
	V500	5,020	3,345	3,330	120	120	8	6	3,500	3,500	3,330	3,420	6,235	6,392
2 Stage Full Free Lift	VF280	2,805	2,135	2,120	931	1,258	8	8	3,500	3,500	3,500	3,500	5,959	6,114
	VF300	3,005	2,235	2,220	1,031	1,358	8	8	3,500	3,500	3,500	3,500	5,985	6,140
	VF315	3,155	2,325	2,310	1,121	1,448	8	8	3,500	3,500	3,500	3,500	6,004	6,159
3 Stage Full Free Lift	TF/TS370	3,730	2,035	2,020	822	1,149	8	8	3,500	3,500	3,500	3,500	6,175	6,332
	TF/TS400	4,030	2,135	2,120	922	1,249	8	8	3,500	3,500	3,500	3,500	6,205	6,362
	TS420	4,210	2,175	2,160	992	1,319	8	8	3,500	3,500	3,500	3,500	6,220	6,378
	TF/TS430	4,330	2,235	2,220	1,022	1,349	8	8	3,500	3,500	3,450	3,500	6,236	6,393
	TF/TS450	4,510	2,295	2,280	1,082	1,409	8	8	3,500	3,500	3,410	3,470	6,255	6,412
	TF/TS470	4,720	2,385	2,370	1,172	1,499	8	8	3,500	3,500	3,360	3,420	6,291	6,449
	TF/TS500	5,020	2,485	2,470	1,272	1,599	8	6	3,500	3,500	3,290	3,350	6,314	6,472
	TF/TS550	5,520	2,665	2,650	1,452	1,779	8	6	3,410	3,500	3,180	3,240	6,375	6,533
	TF/TS600	6,030	2,845	2,830	1,632	1,959	8	6	3,200	3,290	2,980	3,050	6,444	6,601
	TF/TS650	6,540	3,025	3,010	1,812	2,139	8	6	3,090	3,150	2,880	2,910	6,485	6,643

45D-9VB														
Mast Type		Maximum Fork Height	Overall Height (Lowered)		Free Lift Height		Tilt Angle		Load capacity without Side shift		Load capacity with Intergral Side shift		Truck Weight (Unloaded)	
									Single Tire	Double Tire	Single Tire	Double Tire		
			Single Tire	Double Tire	With Load Backrest	Without Load Backrest	Fwd	Bwd	600mm LC	600mm LC	600mm LC	600mm LC	Single Tire	Double Tire
		mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg
2 Stage Limited Free Lift	V270	2,720	2,085	2,070	120	120	8	10	4,500	4,500	4,500	4,500	6,807	6,933
	V300	3,020	2,235	2,220	120	120	8	10	4,500	4,500	4,500	4,500	6,837	6,963
	V330	3,320	2,385	2,370	120	120	8	10	4,500	4,500	4,500	4,500	6,875	7,001
	V350	3,520	2,535	2,520	120	120	8	10	4,500	4,500	4,500	4,500	6,898	7,024
	V370	3,720	2,635	2,620	120	120	8	10	4,500	4,500	4,500	4,400	6,918	7,044
	V400	4,020	2,845	2,830	120	120	8	10	4,500	4,500	4,500	4,500	6,960	7,087
	V430	4,320	2,945	2,980	120	120	8	10	4,500	4,500	4,500	4,500	7,017	7,143
	V450	4,520	3,095	3,080	120	120	8	6	4,500	4,500	4,440	4,480	7,073	7,199
	V500	5,020	3,345	3,330	120	120	8	6	4,500	4,500	4,300	4,340	7,124	7,250
2 Stage Full Free Lift	VF280	2,805	2,135	2,120	853	1,442	8	8	4,500	4,500	4,500	4,500	6,843	6,969
	VF300	3,005	2,235	2,220	953	1,542	8	8	4,500	4,500	4,500	4,500	6,869	6,995
	VF315	3,155	2,325	2,310	1,043	1,602	8	8	4,500	4,500	4,500	4,500	6,888	7,015
3 Stage Full Free Lift	TF/TS370	3,730	2,035	2,020	796	1,114	8	8	4,500	4,500	4,500	4,500	7,064	7,193
	TF/TS400	4,030	2,135	2,120	896	1,214	8	8	4,500	4,500	4,500	4,500	7,094	7,223
	TS420	4,210	2,175	2,160	966	1,284	8	8	4,500	4,500	4,450	4,490	7,109	7,238
	TF/TS430	4,330	2,235	2,220	996	1,314	8	8	4,500	4,500	4,440	4,480	7,125	7,254
	TF/TS450	4,510	2,295	2,280	1,056	1,374	8	8	4,500	4,500	4,390	4,430	7,144	7,273
	TF/TS470	4,720	2,385	2,370	1,145	1,484	8	8	4,500	4,500	4,320	4,370	7,180	7,309
	TF/TS500	5,020	2,485	2,470	1,246	1,564	8	6	4,500	4,500	4,250	4,290	7,203	7,332
	TF/TS550	5,520	2,665	2,650	1,426	1,744	8	6	4,380	4,440	4,110	4,150	7,264	7,393
	TF/TS600	6,030	2,845	2,830	1,606	1,924	8	6	4,130	4,190	3,880	3,910	7,333	7,462
	TF/TS650	6,540	3,025	3,010	1,786	2,104	8	6	3,860	4,040	3,740	3,770	7,374	7,503

50Dn-9VB														
Mast Type		Maximum Fork Height	Overall Height (Lowered)		Free Lift Height		Tilt Angle		Load capacity without Side shift		Load capacity with Intergral Side shift		Truck Weight (Unloaded)	
									Single Tire	Double Tire	Single Tire	Double Tire		
			Single Tire	Double Tire	With Load Backrest	Without Load Backrest	Fwd	Bwd	600mm LC	600mm LC	600mm LC	600mm LC	Single Tire	Double Tire
			mm	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg
2 Stage Limited Free Lift	V260	2,630	2,085	2,070	120	120	8	10	5,000	5,000	5,000	5,000	7,193	7,297
	V290	2,930	2,235	2,220	120	120	8	10	5,000	5,000	5,000	5,000	7,219	7,322
	V320	3,230	2,385	2,370	120	120	8	10	5,000	5,000	5,000	5,000	7,244	7,348
	V340	3,430	2,535	2,520	120	120	8	10	5,000	5,000	5,000	5,000	7,268	7,372
	V360	3,630	2,635	2,620	120	120	8	10	5,000	5,000	5,000	5,000	7,285	7,389
	V390	3,930	2,845	2,830	120	120	8	10	5,000	5,000	5,000	5,000	7,320	7,424
	V440	4,430	3,095	3,080	120	120	8	6	5,000	5,000	4,870	4,950	7,424	7,527
	V490	4,930	3,345	3,330	120	120	8	6	5,000	5,000	4,730	4,810	7,466	7,570
2 Stage Full Free Lift	VF270	2,702	2,135	2,120	905	1,223	8	8	5,000	5,000	5,000	5,000	7,253	7,353
	VF290	2,902	2,235	2,220	1,005	1,323	8	8	5,000	5,000	5,000	5,000	7,278	7,378
	VF305	3,052	2,325	2,310	1,095	1,413	8	8	5,000	5,000	5,000	5,000	7,296	7,396
3 Stage Full Free Lift	TF/TS360	3,672	2,035	2,020	807	1,074	8	8	5,000	5,000	5,000	5,000	7,437	7,529
	TF/TS390	3,972	2,135	2,120	907	1,174	8	8	5,000	5,000	4,950	5,000	7,463	7,555
	TF/TS420	4,272	2,235	2,220	1,007	1,274	8	8	5,000	5,000	4,850	4,930	7,488	7,580
	TF/TS440	4,452	2,295	2,280	1,067	1,334	8	8	5,000	5,000	4,810	4,890	7,504	7,596
	TF/TS460	4,662	2,385	2,370	1,157	1,424	8	8	5,000	5,000	4,750	4,830	7,528	7,620
	TF/TS490	4,962	2,485	2,470	1,257	1,524	8	6	4,960	5,000	4,670	4,750	7,553	7,645
	TF/TS540	5,462	2,665	2,650	1,437	1,704	8	6	4,820	4,930	4,530	4,610	7,605	7,697
	TF/TS590	5,972	2,845	2,830	1,617	1,884	8	6	4,560	4,910	4,290	4,600	7,645	7,737
	TF/TS640	6,482	3,025	3,010	1,797	2,064	8	6	4,430	4,780	4,170	4,480	7,687	7,779

Load Capacity

