

Standard & Option

Details			25/30/ 35D(n)-9V	Details			25/30/ 35D(n)-9V
OPERATION ROOM	OHG & Cabin	Overheadguard (25D-9V : 2,160mm, Other Models : 2,180mm)	●	HYDRAULIC	MCV & Piping	3 Spool MCV	●
		Overheadguard with Rain Cover (25D-9V : 2,170mm, Other Models : 2,190mm)	○			4 Spool MCV	○
		Cabin Options (One Door, Two Door)	○			Attached Piping for All MCVs & Masts	○
		Partial Cabin (Front Glass with Wiper, Rear Glass & Top Rain Cover)	○	Brake		Brake - Genaral type	●
	A/C	A/C & Heater, Heater only	○			Brake - Booster type	○
				TIRE	Tires	Pneumatic Tire (Single)	●
	Seat	Non-suspension, OPSS, Orange Belt, S/S, PVC	○			Solid Tire	○
		Non-suspension, OPSS, Orange Belt, S/S, B/S, PVC, Interlock Option Available	○			Non-Marking Tire	○
		Grammer, OPSS, Orange Belt, S/S, PVC	○			Front Pneumatic + Rear Solid	○
		Grammer, OPSS, Orange Belt, S/S, B/S, Arm Rest, PVC, Interlock Option Available	○			Front Solid + Rear Pneumatic	○
		Grammer, OPSS, Orange Belt, S/S, Arm Rest, PVC	●			Pneumatic Double or Solid Double (15" Wheel Rim)	○
		Grammer, OPSS, Orange Belt, S/S, Arm Rest, PVC, Heat	○	VISIBILITY	LED Work Lamp	Front only	●
		Grammer, OPSS, Orange Belt, S/S, Arm Rest, PVC, Heat, Back Rest Extension	○			Front & Rear	○
		Grammer, OPSS, Orange Belt, S/S, Arm Rest, PVC, Heat, Interlock Option Available	○		Safety Lamp	Rear Blue Spot	○
		Grammer, OPSS, Orange Belt, S/S, B/S, PVC, Interlock Option Available	○			LED Beacon Lamp	○
		Grammer, OPSS, Orange Belt, S/S, B/S, Arm Rest, Fabric, Interlock Option Available	○		Mirror	Panorama Mirror	●
	Lever	Lever - General	●			Panorama Mirror & Back Mirror LH	○
						Panorama Mirror & Back Mirror LH/RH	○
	Other Options	Rear Horn	●	Camera		Rear camera	○
		Extinguisher	○				
MAST	Mast	2 Stage Mast - Standard (V)	●	CONVENIENCE	-	Knob-Switch with Direction & Horn	○
		2 Stage Mast - Single Full Free (VF), Dual Full Free (VS)	○			Master Switch to Cut off Electricity from Battery	●
		3 Stage Mast - Single Full Free (TF), Dual Full Free (TS)	○			Hazard Switch, Auto Tilt, Load Sensor	●
		4 Stage Mast - Single Full Free (QF)	○			Hydraulic Pressure Display	●
	Fork	Length:1,050mm	●	OTHERS	-	Rear Tire Cover + Under Cover	○
		Length:900, 1,000, 1,200, 1,350, 1,500, 1,650, 1,800, 2,100mm	○			Fuel Cap with Key	○
	Carriage	Type	Hook			Pre-Cleaner	○
			Hook Integral - Sideshift			Hi-Mate Basic	○
		Width	Integral Special - Sideshift + Fork Positioner			Hi-Mate Premium	○
			Narrow (1,102mm)			Hyd. Oil Std. VG 46	●
	Attachment		Wide (1,442mm)			Hyd. Oil Opt. VG 68 (Tropical) / 15 (Cold) / 32 (Cold)	○
			Fork Positioner - Synchronized or Independent			Accumulator	○
			Side Shift			Clamp Interlock (3SP or 4SP)	○
			Quick Disconnecter				

● STD / ○ OPT

25/30D
35Dn-9V

Internal Combustion Diesel Engine Forklift Truck



9V series satisfies our customers’ demands through adaptation of HDI & HDX’s 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

Eco-friendly engine

- EPA/CARB Tier-4 Regulation Satisfaction,
Powerful Performance
 - HDI DM02 Engine

Innovative cost-effectiveness and reliable durability

- HDX T/M 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/PWD mode
- Wide work sight of the TS mast **Option**

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
- DOC management without weight disintegration
- Waterproof and dustproof fuse & relay box
- Remote type engine oil filter



ENVIRONMENT FRIENDLY
GREAT PRODUCTIVITY, DURABILITY

PERFORMANCE^{UP}

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

Experience newly changed performance.



25/30D
350N-9V

Powerful & efficient HDI Engine

HDI DM02 engine is the optimal engine that requires high torque in low rpm, and one that satisfies EPA Tier 4 final emission regulation.

- * Use of Germany's BOSCH Fuel system: common rail & ECU (DPF: DOC)
- * Use of timing chain: Superb durability
- * Use of HLA system: Valve clearance check is not required
- * Easy maintenance: Remote type oil filter & simple fuel line (Without feed pump)

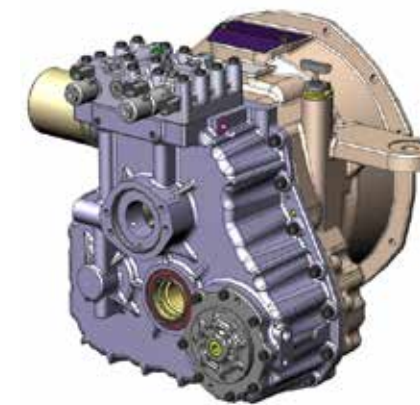
* Engine power (kW/rpm): 50.5 / 2,300

* Max torque (kgf-m/rpm): 25 / 1,600



New HDX transmission

Clutch pack capacity & oil volume are increased and starting shock is decreased by 36% compared to the previous model. The DCSR system as a protection function implemented by MCU and the auto-parking pack, which is a very important safety specification, are added.



New HDX drive axle

Noise transmitted to the axle housing is reduced by applying a ring gear to the hub reduction. Durability is significantly improved compared to existing products as the strength of the gears composing the bevel & pinion and differential assembly including the oil amount are enhanced. This product is also equipped with wet disc brakes.



Engine performance Up/Down

Drivers can select engine power according to their work environment conveniently with the STD/PWD button located on the dashboard. Moreover, they can save over 4% more in fuel cost when selecting STD mode than when selecting PWD mode.



Wide work sight of the 3-stage mast-TS mast **Option**

Usually, the 3-stage mast causes some inconvenience in securing a clear front view due to the primary cylinder in the center. The 3-stage TS mast provides wider work sight by placing the primary cylinder on the left and right sides.



UP SAFETY

Safety at the logistics site is most important!
Safety is backed by complete reliability



25/30D
35Dn-9V

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.



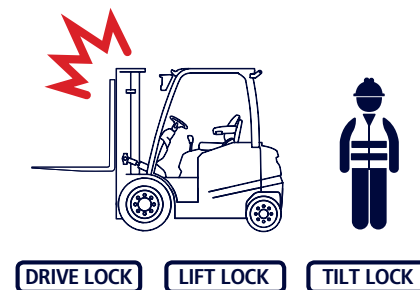
Hill start assist control

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.



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.



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.

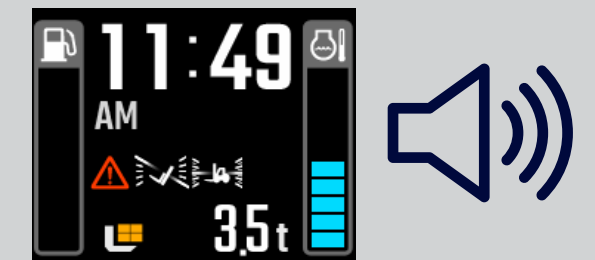
Speed limit

The maximum driving speed can be set to prevent safety 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.



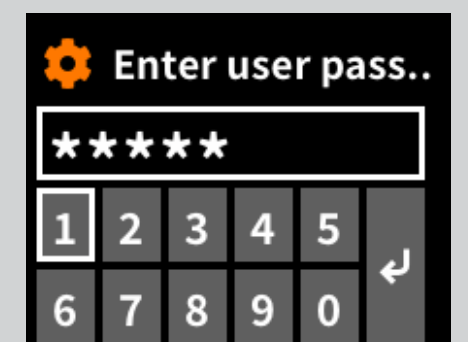
Overload operation warning – Load sensing system Option

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.



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.)



OUTSTANDING OPERABILITY ERGONOMICS

CONVENIENCE^{UP}

Improving work efficiency to the next level with consistent convenience in any environment

**25/30D
35Dn-9V**

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.



Ergonomic pedal - Hydraulic boosted(Optional) 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.



Steering handle that is easy to operate

The diameter of the handle is reduced by 2.76inch to minimize the operator's fatigue and the Danfoss 4th generation Obitrol pump is applied to reduce noise and improve the reverse rotation jam of the handle.



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.



Cabin Option

With wide field of vision and easy-to-open/shut cabin doors, D-9V'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.



MAINTENANCE^{UP}

Easy maintenance and cost-effective after-sales service

Even though the work is finished, the satisfaction continues.



Larger maintenance space

A larger 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	SPN	FMI
0141	110	4

Engine Coolant Temperature Sensor voltage too Low

Engine oil & filt..

Cycle	500
Elaps. Time	174
History	0

Convenient maintenance of HYD control valve

Along with this feature, the lift emergency lowering screw and a descending speed adjustable regulator of the MCV reduce the maintenance frequency and downtime.



Hi-MATE Option

Forklift operation and status, safety, and human resources can be remotely managed using the on-site management solution Hi-MATE. The accumulated data can be used for devising a forklift operation plan.



Junction Box & Remote type Engine oil filter

The fuses and relays that are vulnerable to contamination are placed inside a box with enhanced waterproof and dustproof functions. And engine oil filter is separated from the engine assembly and configured as a remote type to improve convenience of oil change.



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.





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

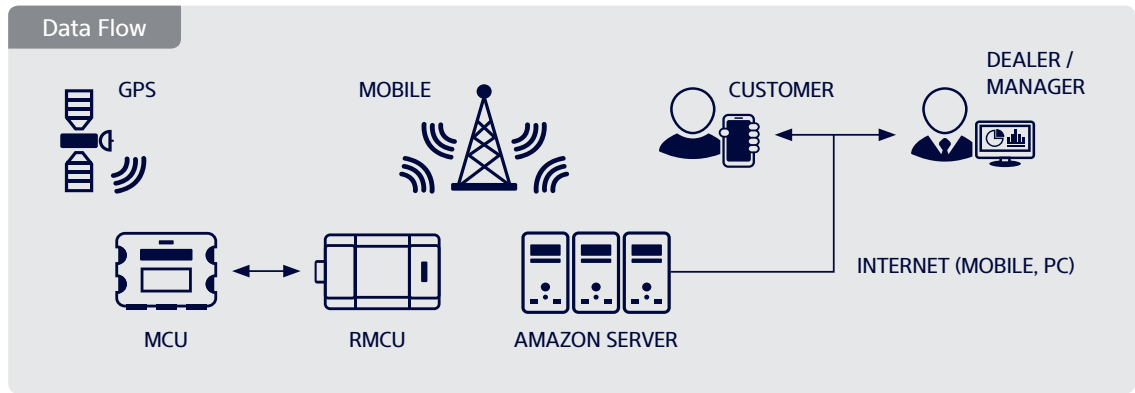
- Count of collision, size of impact



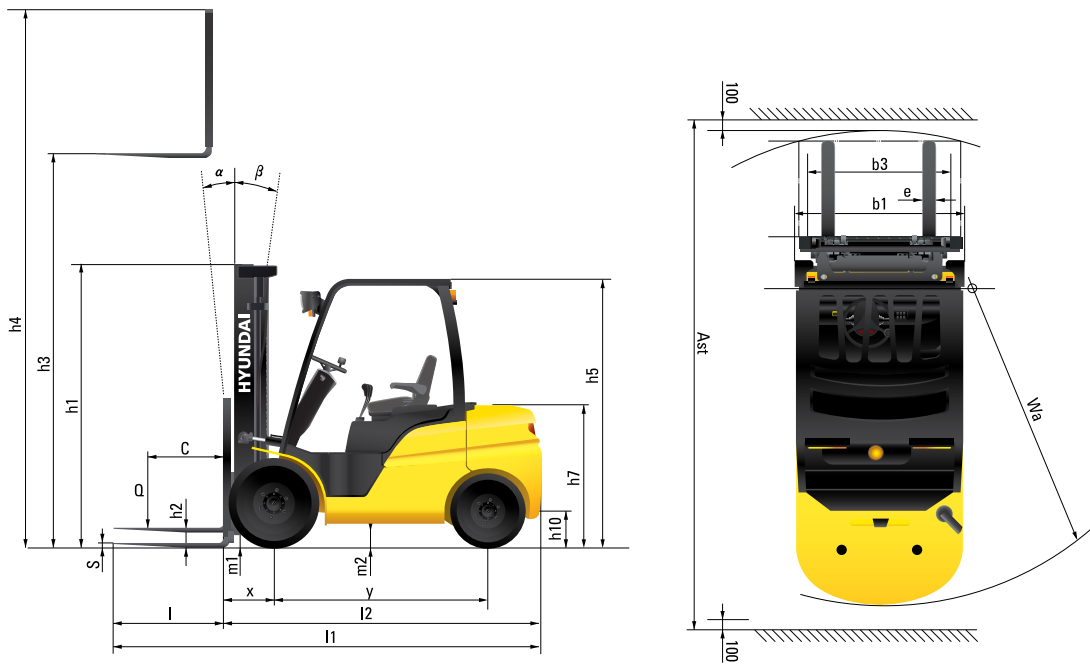
Human resource management

* 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		25D-9V	30D-9V	35Dn-9V
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	2,500	3,000	3500
1.6	Load Center Distance	mm	500	500	500
1.8	Load Distance, Center Of Drive Axle To Fork	mm	468	468	468
1.9	Wheelbase	mm	1,650	1,700	1,700
Weights					
2.1	Service Weight	kg	3,871	4,300	4,616
2.2	Axle Loading, Loaded Front/Rear	kg	5,548/823	6,349/951	7,080/1,035
2.3	Axle Loading, Unloaded Front/Rear	kg	1,581/2,290	1,641/2,659	1,588/3,028
Wheels, Chassis					
3.1	Tires : Solid Rubber, Superelastic, Pneumatic, Polyurethane		Pneumatic	Pneumatic	Pneumatic
3.2	Tire Size, Front		700-12-12PR	8.15-15-14PR	8.15-15-14PR
3.3	Tire Size, Rear		6.50-10-12PR	6.50-10-12PR	6.50-10-12PR
3.5	Wheels, Number Front / Rear (X = Driven Wheels)		2x2	2x2	2x2
3.6	Tread, Front	mm	999	1,005	1005
3.7	Tread, Rear	mm	980	980	980
Basic Dimensions					
4.1	Tilt Of Mast/Fork Carriage Forward/Backward	degree	6/10	6/10	6/10
4.2	Height, Mast Lowered	h1 (mm)	2,175	2,190	2,260
4.3	Free Lift	h2 (mm)	155	155	155
4.4	Lift Height	h3 (mm)	3,305	3,305	3,305
4.5	Height, Mast Extended	h4 (mm)	4,485	4,485	4,485
4.7	Height Of Overhead Guard (Cabin)	h5 (mm)	85.8/2,170	86.4/2,190	86.4/2,190
4.8	Seat Height / Stand Height Rel. To Sip	h7 (mm)	1,187	1,207	1,208
4.12	Coupling Height	h10 (mm)	310	300	295
4.19	Overall Length	l1 (mm)	3,669	3,742	3,785
4.20	Length To Face Of Forks	l2 (mm)	2,619	2,692	2,735
4.21	Overall Width	b1 (mm)	1,200	1,230	1,230
4.22	Fork Dimensions	l x e x s (mm)	45x100x1050	45x122x1,050	45x122x1,050
4.23	Fork Carriage Iso 2328, Class / Type A, B		II/A	III/A	III/A
4.24	Fork-Carriage Width	b3 (mm)	1,102	1,102	1,102
4.31	Ground Clearance, Below Mast, Loaded	m1 (mm)	130	145	145
4.32	Ground Clearance, Center Of Wheelbase	m2 (mm)	172	171	171
4.34.1	Aisle Width For Pallets 1000 X 1200 Crossways	Ast (mm)	4,020	4,095	4,149
4.34.2	Aisle Width For Pallets 800 X 1200 Lengthways	Ast (mm)	4,220	4,295	4,349
4.35	Turning Radius	Wa (mm)	2,352	2,427	2,481
4.36	Smallest Pivot Point Distance	mm	714	731	731
Performance Data					
5.1	Travel Speed, Loaded / Unloaded	km/h	15.8/17.2	17.2/18.3	16.4/18.3
5.2	Lift Speed, Loaded / Unloaded	mm/s	550/580	550/580	450/470
5.3	Lowering Speed, Loaded / Unloaded	mm/s	550/500	550/500	510/480
5.6	Max. Drawbar Pull, Loaded / Unloaded	N	27,975/26,209	25,043/24,412	26,298/24,407
5.8	Max. Gradeability, Loaded / Unloaded	%	44.2/21.5	33.3/20.1	34.7/20.2
5.10	Service Brake		FOOT / HYDRAULIC	FOOT / HYDRAULIC	FOOT / HYDRAULIC
Combustion-Engine					
7.1	Engine Manufacturer / Type		HDI DM02	HDI DM02	HDI DM02
7.2	Engine Power Acc. To Iso 1585	kW/rpm	50.5/2,300	50.5/2,300	50.5/2,300
7.3	Maximum Torque	kgf · m/rpm	25/1,600	25/1,600	25/1,600
7.4	No. Of Cylinders / Displacement	EA/cc	4/2392	4/2392	4/2392
Addition Data					
8.1	Type Of Drive Control		HG DM02	HG DM02	HG DM02
8.2	Operating Pressure, System / Attachments	psi	200/140	200/140	200/140
8.3	Oil Volume For Attachments	GPM-US	55	55	55
8.4	Sound Level At The Driver's Ear According To Din 12053	dB (A)	83	83	83
8.5	Trailer Coupling, Type Din		PIN	PIN	PIN

25D-9V																		
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	
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SPOOL)	Fwd	Bwd	500mm LC		500mm LC		500mm LC		500mm LC		Single Tire	Double Tire
									kg	kg	kg	kg	kg	kg	kg	kg		
		mm	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg	kg			
2 Stage Limited Free Lift	V300	3.005	2.025	155	155	155	6	10	2.500	2.500	2.500	2.500	3.852	4.001				
	V330	3.305	2.175	155	155	155	6	10	2.500	2.500	2.500	2.500	3.871	4.021				
	V350	3.505	2.275	155	155	155	6	10	2.500	2.500	2.500	2.500	3.889	4.038				
	V370	3.705	2.425	155	155	155	6	10	2.500	2.500	2.430	2.500	3.911	4.060				
	V400	4.005	2.575	155	155	155	6	10	2.500	2.500	2.380	2.500	3.941	4.090				
	V430	4.305	2.725	155	155	155	6	6	2.490	2.500	2.370	2.500	3.993	4.141				
	V450	4.505	2.875	155	155	155	6	6	2.450	2.500	2.330	2.450	4.015	4.163				
	V470	4.705	2.975	155	155	155	6	6	2.410	2.500	2.300	2.400	4.029	4.178				
2 Stage Full Free Lift	V500	5.005	3.125	155	155	155	6	6	2.360	2.430	2.250	2.350	4.051	4.200				
	VF295	2.976	2.025	845	1.377	1.377	6	6	2.500	2.500	2.500	2.500	3.872	4.026				
	VF325	3.276	2.175	995	1.527	1.527	6	6	2.500	2.500	2.460	2.500	3.906	4.059				
	VF345	3.476	2.275	1.095	1.627	1.627	6	6	2.500	2.500	2.380	2.500	3.929	4.091				
	TF370	3.705	1.825	645	1.177	1.081	6	6	2.500	2.500	2.430	2.500	3.963	4.116				
	TF400	4.005	1.925	745	1.277	1.181	6	6	2.500	2.500	2.380	2.450	3.987	4.140				
	TF430	4.305	2.025	845	1.377	1.281	6	6	2.480	2.500	2.360	2.400	4.005	4.158				
	TF450	4.505	2.125	945	1.477	1.431	6	6	2.440	2.500	2.330	2.360	4.027	4.180				
3 Stage Full Free Lift	TF470	4.705	2.175	995	1.527	1.431	6	6	2.400	2.490	2.290	2.350	4.040	4.194				
	TF500	5.005	2.275	1.095	1.627	1.531	6	6	2.350	2.440	2.240	2.310	4.062	4.216				
	TF550	5.505	2.475	1.295	1.827	1.781	6	6	1.550	2.310	1.470	2.180	4.101	4.255				
	TF600	6.005	2.675	1.495	2.027	1.981	6	6	1.400	2.210	1.320	2.080	4.166	4.320				
	TF650	6.505	2.875	1.695	2.044	1.904	3	3	1.350	2.180	1.280	2.060	4.213	4.366				
	TF700	7.005	3.075	1.895	2.244	2.104	3	3	1.150	2.100	1.080	1.980	4.251	4.404				
	TS370	3.705	1.825	645	1.177	946	6	6	2.500	2.500	2.430	2.500	3.963	4.116				
	TS400	4.005	1.925	745	1.277	1.046	6	6	2.500	2.500	2.380	2.450	3.987	4.140				
	TS430	4.305	2.025	845	1.377	1.146	6	6	2.480	2.500	2.360	2.400	4.005	4.158				
	TS450	4.505	2.125	945	1.477	1.346	6	6	2.440	2.500	2.330	2.360	4.027	4.180				
	TS470	4.705	2.175	995	1.527	1.296	6	6	2.400	2.490	2.290	2.350	4.040	4.194				
	TS500	5.005	2.275	1.095	1.627	1.396	6	6	2.350	2.440	2.240	2.310	4.062	4.216				
	TS550	5.505	2.475	1.295	1.827	1.696	6	6	1.550	2.310	1.470	2.180	4.101	4.255				
	TS600	6.005	2.675	1.495	2.027	1.896	6	6	1.400	2.210	1.320	2.080	4.166	4.320				
	TS650	6.505	2.875	1.695	2.016	1.876	3	3	1.350	2.180	1.280	2.060	4.213	4.366				
	TS700	7.005	3.075	1.895	2.216	2.076	3	3	1.150	2.100	1.080	1.980	4.251	4.404				
4 Stage Full Free Lift	QF610	6.115	2.160	980	1.512	1.412	3	3	1.600	2.120	1.520	2.000	4.408	4.582				
	QF660	6.615	2.360	1.180	1.712	1.612	3	3	1.400	2.040	1.320	1.930	4.468	4.642				
	QF700	7.015	2.460	1.280	1.812	1.712	3	3	1.100	1.980	1.040	1.870	4.499	4.672				
	QF745	7.465	2.610	1.430	1.915	1.762	3	3	800	1.650	750	1.550	4.544	4.718				
	QF790	7.915	2.760	1.580	1.915	1.762	3	3	600	1.250	550	1.170	4.645	4.819				

30D-9V															
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
				With Load Backrest	Without Load Backrest	Without Load Backrest (3/4-SPOOL)	Fwd	Bwd	500mm LC	500mm LC	500mm LC	500mm LC	Single Tire	Double Tire	
									kg	kg	kg	kg	kg	kg	
		mm	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg	
2 Stage Limited Free Lift	V300	3.005	2.040	155	155	155	6	10	3.000	3.000	3.000	3.000	4.280	4.407	
	V330	3.305	2.190	155	155	155	6	10	3.000	3.000	3.000	3.000	4.300	4.427	
	V350	3.505	2.290	155	155	155	6	10	3.000	3.000	3.000	3.000	4.318	4.445	
	V370	3.705	2.440	155	155	155	6	10	3.000	3.000	2.900	3.000	4.341	4.468	
	V400	4.005	2.590	155	155	155	6	10	3.000	3.000	2.850	3.000	4.372	4.499	
	V430	4.305	2.740	155	155	155	6	6	2.990	3.000	2.840	3.000	4.424	4.552	
	V450	4.505	2.890	155	155	155	6	6	2.950	3.000	2.800	2.920	4.447	4.574	
	V470	4.705	2.990	155	155	155	6	6	2.900	2.930	2.750	2.830	4.462	4.589	
2 Stage Full Free Lift	V500	5.005	3.140	155	155	155	6	6	2.840	2.890	2.700	2.770	4.485	4.612	
	VF295	2.976	2.040	860	1.314	1.314	6	6	3.000	3.000	3.000	3.000	4.326	4.412	
3 Stage Full Free Lift	VF325	3.276	2.190	1.010	1.464	1.464	6	6	3.000	3.000	3.000	3.000	4.359	4.445	
	VF345	3.476	2.290	1.110	1.564	1.564	6	6	3.000	3.000	2.850	3.000	4.415	4.501	
	TF370	3.705	1.840	660	1.114	1.081	6	6	3.000	3.000	2.900	2.950	4.455	4.580	
	TF400	4.005	1.940	760	1.214	1.181	6	6	3.000	3.000	2.850	2.900	4.479	4.605	
	TF430	4.305	2.040	860	1.314	1.281	6	6	2.960	3.000	2.810	2.850	4.501	4.627	
	TF450	4.505	2.140	960	1.414	1.414	6	6	2.920	2.990	2.770	2.840	4.527	4.652	
	TF470	4.705	2.190	1.010	1.464	1.431	6	6	2.880	2.950	2.740	2.810	4.541	4.666	
	TF500	5.005	2.290	1.110	1.564	1.531	6	6	2.820	2.890	2.680	2.750	4.563	4.689	
	TF550	5.505	2.490	1.310	1.764	1.764	6	6	1.750	2.720	1.650	2.590	4.607	4.733	
	TF600	6.005	2.690	1.510	1.964	1.964	6	6	1.450	2.630	1.360	2.500	4.677	4.803	
	TF650	6.505	2.890	1.710	2.061	1.921	3	3	1.400	2.590	1.310	2.460	4.728	4.854	
	TF700	7.005	3.090	1.910	2.261	2.121	3	3	1.200	2.500	1.120	2.370	4.772	4.897	
	TS370	3.705	1.840	660	1.114	1.053	6	6	3.000	3.000	2.900	2.950	4.455	4.580	
	TS400	4.005	1.940	760	1.214	1.153	6	6	3.000	3.000	2.850	2.900	4.479	4.605	
	TS430	4.305	2.040	860	1.314	1.253	6	6	2.960	3.000	2.810	2.850	4.501	4.627	
	TS450	4.505	2.140	960	1.414	1.403	6	6	2.920	2.990	2.770	2.840	4.527	4.652	
	TS470	4.705	2.190	1.010	1.464	1.403	6	6	2.880	2.950	2.740	2.810	4.541	4.666	
	TS500	5.005	2.290	1.110	1.564	1.503	6	6	2.820	2.890	2.680	2.750	4.563	4.689	
	TS550	5.505	2.490	1.310	1.764	1.753	6	6	1.750	2.720	1.650	2.590	4.607	4.733	
	TS600	6.005	2.690	1.510	1.964	1.953	6	6	1.450	2.630	1.360	2.500	4.677	4.803	
TS650	6.505	2.890	1.710	2.033	1.893	3	3	1.400	2.590	1.310	2.460	4.728	4.854		
4 Stage Full Free Lift	TS700	7.005	3.090	1.910	2.233	2.093	3	3	1.200	2.500	1.120	2.370	4.772	4.897	
	QF610	6.115	2.175	995	1.449	1.449	3	3	1.700	2.560	1.600	2.420	4.864	5.008	
	QF660	6.615	2.375	1.195	1.649	1.649	3	3	1.500	2.460	1.410	2.330	4.924	5.068	
	QF700	7.015	2.475	1.295	1.749	1.749	3	3	1.200	2.400	1.120	2.270	4.954	5.099	
	QF745	7.465	2.625	1.445	1.899	1.762	3	3	900	2.320	830	2.190	5.000	5.144	
	QF790	7.915	2.775	1.595	1.915	1.762	3	3	700	2.230	640	2.100	5.101	5.245	

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