

22/25/30/33D-9

Diesel Counterbalance Trucks

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



■ Some of the photos may include optional equipment.

 **HYUNDAI**
CONSTRUCTION EQUIPMENT AMERICAS, INC.

Your satisfaction is **our priority!**

Hyundai introduces a new line of 9-series diesel forklift trucks.

The newly designed 4 wheel counterbalance trucks provide every operator comfortable driving, increased productivity and easy maintenance.



New Diesel Forklift with Proven Quality and Advanced Technology

- Maximum performance
- Spacious operator's cab
- Switch type parking brake
- 5.6 inch LCD color monitor
- Truck incline warning system
- OPSS System for safe operation
- Easy serviceability
- Max speed limit function
- HAC(Hill Assist Control)
- Password starting system
- Load weight indicator
- Auto fork leveling system (Optional)



*Some of the photos may include optional equipment.

High Efficiency & **Optimal Performance**



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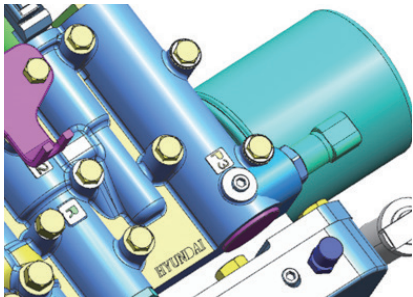
KUBOTA V3307 Engine **EPA Tier IV Final, 67HP/2,300rpm**

High Power Engine - KUBOTA V3307

Market approved quality of KUBOTA V3307 engine ensures incomparable performance, durability and excellent fuel efficiency.

Powerful Tier IV Final Diesel engine and high technology system provide you with enhanced performance and highest productivity.

22/25/30/33D-9



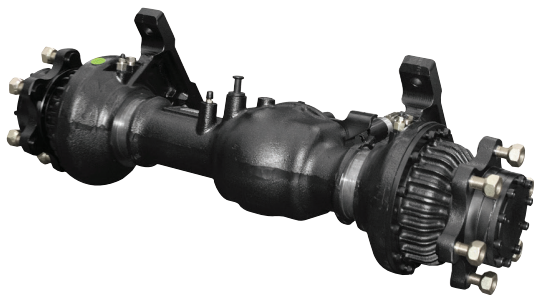
Clutch Protection System

The clutch protection system discourages excessive use of inching as well as minimizes wear and tear.



Boosting Type Brake Valve (Optional)

The boosting type brake valve is applied for strong braking performance.



Highly Durable Drive Axle with Wet Disc Type Brake

The strengthened drive axle has a U-Joint connection to the transmission to ensure low vibration and easy maintenance.



Fully Hydrostatic Power Steering

The hydraulic steering system always guarantees smooth and flexible steering, preventing over-run and kick-back.



Travel Speed (MAX)

Model	mph
22D-9	11.5
25D-9	11.5
30D-9	12.4
33D-9	12.3

Gradeability (MAX)

Model	%
22D-9	45.8
25D-9	40.7
30D-9	31.4
33D-9	29.0

Faster Travel Speed & Gradeability

The powerful high-output engine provides dynamic acceleration, excellent gradeability and optimal travel speed on any terrains and slopes.

Optimized Ergonomics



Spacious Operator Cabin

The newly designed cabin provides wide visibility and spacious environment, ensuring all day comfort for the operator.



Optimized Pedal Position

On the 9-series the pedals are mounted to the console to reduce operator fatigue, noise and dust from the engine compartment.



Low Entrance Height

The low entrance height ensures easy and safe access for the operator.



Adjustable Steering Wheel

To achieve a comfortable driving position, the angle of the steering column can easily be adjusted by a lever on the right-hand side of the steering column.



Comfortable Grammer Seat

Easily adjustable suspension seat, based on a human engineering design, reduces operator fatigue and provides great comfort and durability.

*ELR (Energy Locking Retractor) Type Seat Belt (Standard)

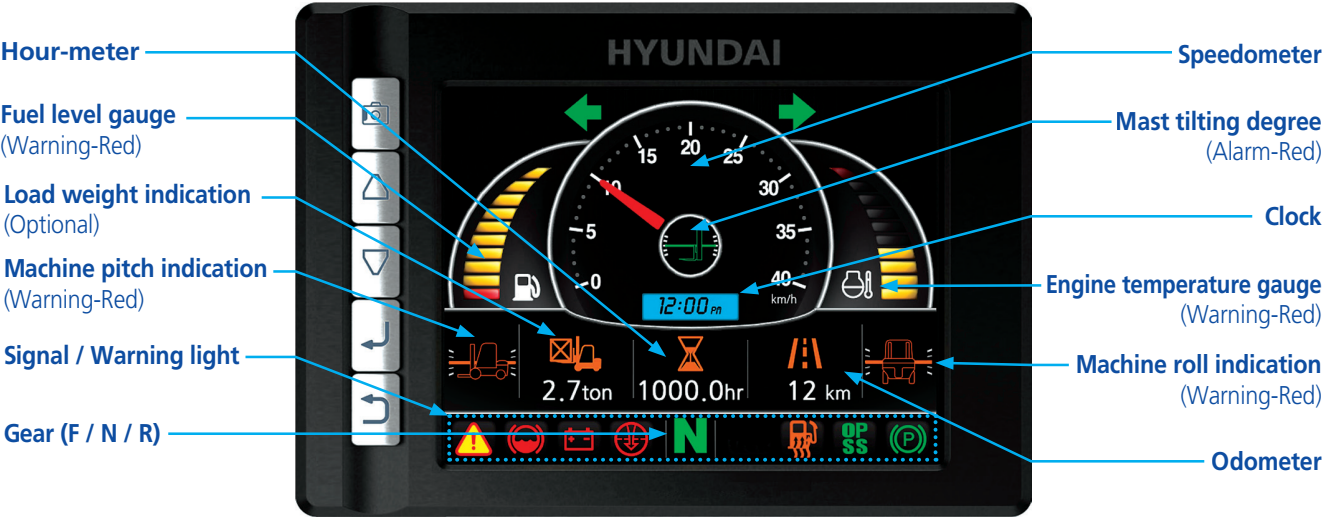
*Heated seat and Head-rest (Optional)

The ergonomically designed cabin and the new style LCD color monitor provides full support and comfort to the operator.

22/25/30/33D-9

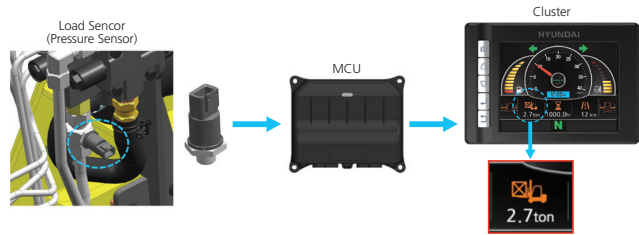
Advanced LCD Monitor

The 5.6 inch wide screen LCD color monitor allows the operator to control the machine with ease. The monitor features speed, travel direction, battery discharge indicator and hour meter.



Max Speed Limit System

- Safety function for the customer
- Maximum speed limit range : 5mph - 12mph (Selectable)
- Easy to set the maximum speed limit
- Smooth acceleration while reaching maximum speed



Load Indicator

The load indicator displays the load weight on the monitor. The load sensor reduces the time to check loaded weight and the alarm alerts the driver when overloaded.



Auto Fork Leveling System (Optional)

To improve the productivity, the auto fork leveling system will automatically stop the tilt movement when the mast is in a straight position.

Advanced **Safety**



Excellent Visibility for Safe Operation

Optimized lift cylinder arrangement provides operator with wider visibility.
The panoramic mirror expands the driver's view when backing up.

*Some of the photos may include optional equipment.



Strong Overhead Guard

Exceeding CEE and ANSI regulations, the overhead guard offers optimal protection combined with excellent all round visibility.



Steel Side Cover (Optional)

The strengthened steel side cover provides enhanced durability.

Enhanced operator compartment allows for comfortable operation.

22/25/30/33D-9



HAC (Hill Assist Control)

Automatically activates the HAC when the truck stops on an uneven surface.

Fork Safety Features

When the forks are being lowered, a down-control valve maintains the controlled speed. The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.

OPSS (Operator Presence Sensing System)

All mast and drive movements stop functioning when the operator is not in the seat.

Lift Lock **Tilt Lock** **Drive Lock** **Parking**



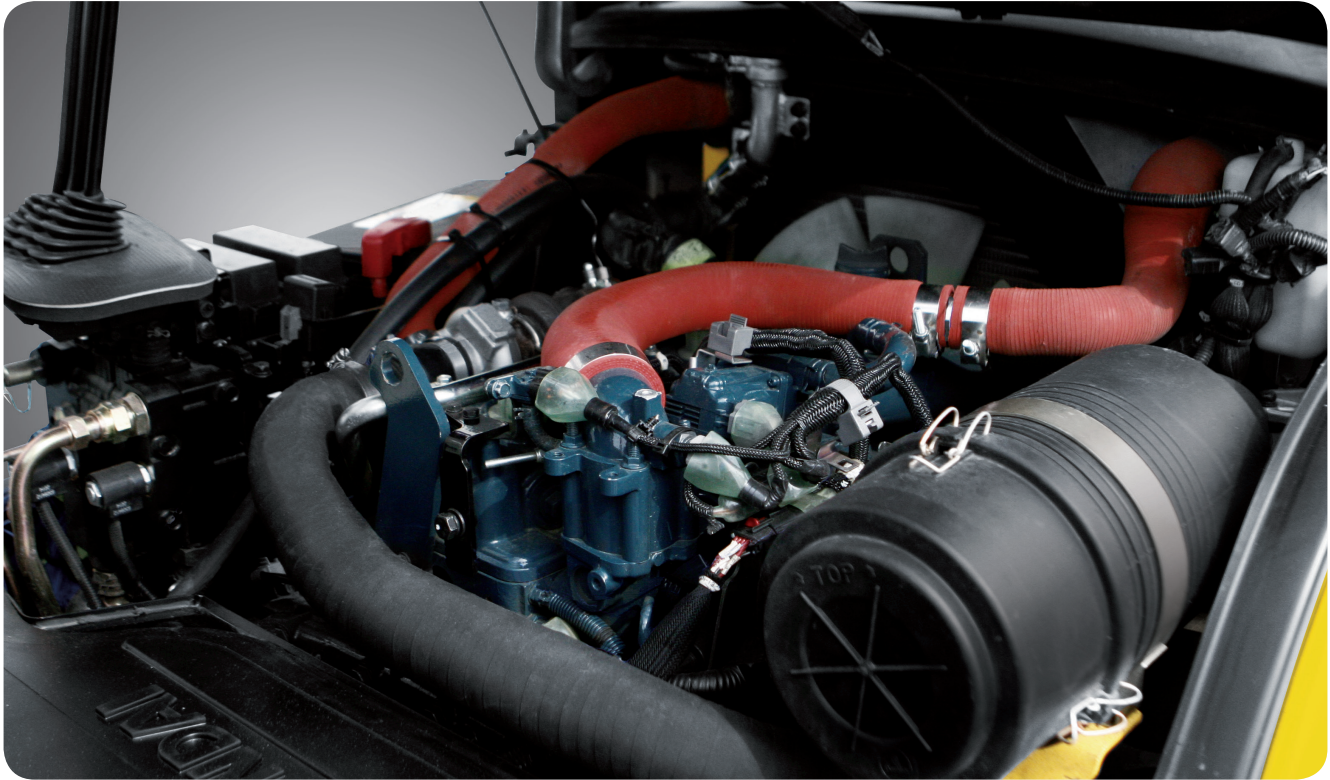
*Some of the photos may include optional equipment.



Safety Lamps & Rear Reflectors

Halogen headlights and rear LED combination lights offer the driver visibility in all circumstances. Rear reflectors mounted on the counterweight enhance safety for the driver and the application.

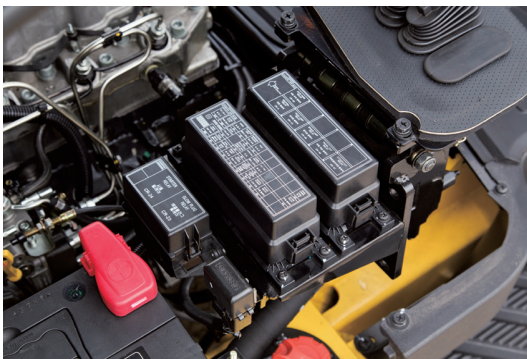
Fast and Easy Maintenance



Large Engine Hood

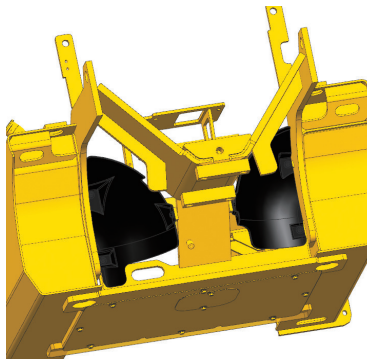
Easily accessible engine compartment assures fast and efficient maintenance.
The enlarged air cleaner (8") provides extended service life.

*Some of the photos may include optional equipment.



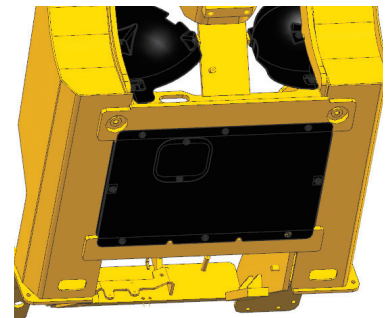
Waterproof & Dustproof Cover

Newly developed Waterproof and Dustproof fuse box and relay box eliminates premature failures and provides extended life.



Rear Tire Cover (Optional)

The rear tire cover with polyethylene material is well-suited for preventing foreign substances from clogging the radiator.



Under Cover (Optional)

The under cover protects the engine and components from dust and debris, extending component life.

An ideal arrangement of components ensures easy access and convenience for maintenance.

22/25/30/33D-9



Rear View Camera
(Optional)



Parking Brake
Switch

With auto parking
function when the
operator is not in
the seat

*Some of the photos may include
optional equipment.

Maintenance Management				
Item	Interval	Elapse Count	Alarm	
Axle Planetary Ge...	100	2 0	0	✓
Transmission Oil	100	2 0	0	✓
Transmission Oil F...	100	2 0	0	✓
Hydraulic Tank Al...	250	2 0	0	✓
Air Cleaner Comp...	450	2 0	0	✓
Engine Oil Filter	500	2 0	0	✓

Maintenance Management
Display

Enter current password	

1	2
3	4
5	-
6	7
8	9
0	↩
Please enter password (5-10 digits).	



Fuel Cap with Key

New 9 Series

Mast Specification (22D-9)

Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free Lift Height		Tilt Angle	Load Capacity without side shift		Load Capacity with side shift		Truck Weight (Unloaded)	
				With Load Backrest	Without Load Backrest		Single Tire	Double Tire	Single Tire	Double Tire	Single Tire	Double Tire
				in	in		24 in LC	24 in LC	24 in LC	24 in LC	lb	lb
2- Stage Limited free lift	V300	118.3	79.7	4.5	4.5	6 / 10	4400	4400	4400	4400	7833	8128
	*V330	130.1	85.6	4.5	4.5	6 / 10	4400	4400	4400	4400	7877	8172
	V350	138.0	89.6	4.5	4.5	6 / 10	4400	4400	4400	4400	7914	8210
	V370	145.9	95.5	4.5	4.5	6 / 10	4400	4400	4280	4400	7943	8239
	V400	157.7	101.4	4.5	4.5	6 / 10	4390	4400	4170	4280	8029	8325
	V430	169.5	107.3	4.5	4.5	6 / 6	4280	4390	4060	4170	8144	8439
	V450	177.4	113.2	4.5	4.5	6 / 6	4210	4320	3990	4110	8192	8488
	V470	185.2	117.1	4.5	4.5	6 / 6	4140	4250	3920	4030	8223	8519
2- Stage full free lift	V500	197.0	123.0	4.5	4.5	6 / 6	4080	4190	3860	3970	8272	8567
	VF295	117.2	79.7	33.3	54.2	6 / 6	4400	4400	4400	4400	7877	8183
	VF325	129.0	85.1	38.7	60.2	6 / 6	4400	4400	4400	4400	7952	8258
	VF345	136.9	89.6	43.1	64.1	6 / 6	4400	4400	4400	4400	8003	8329
3- Stage full free lift	TF370/TS370	145.9	71.9	25.4	46.3	6 / 6	4400	4400	4400	4400	8078	8384
	TF400/TS400	157.7	75.8	29.3	50.3	6 / 6	4340	4400	4120	4270	8131	8437
	TF430/TS430	169.5	79.7	33.3	54.2	6 / 6	4250	4370	4030	4150	8170	8477
	TF450/TS450	177.4	83.7	37.2	58.1	6 / 6	4210	4280	3990	4060	8219	8525
	TF470/TS470	185.2	85.6	39.2	60.1	6 / 6	4120	4230	3900	4010	8247	8554
	TF500/TS500	197.0	89.6	43.1	64.1	6 / 6	4030	4120	3810	3900	8296	8602
	TF550/TS550	216.7	97.4	51.0	71.9	6 / 6	3000	3970	2780	3750	8384	8688
	TF600/TS600	236.4	105.3	58.9	79.8	6 / 6	2820	3840	2600	3620	8525	8832
	TF650/TS650	256.1	113.2	66.7	87.7	3 / 3	2710	3790	2490	3570	8629	8935
4- Stage full free lift	TF700/TS700	275.8	121.1	74.6	95.6	3 / 3	2310	3660	2090	3440	8713	9019
	QF610	240.7	85.0	38.6	59.5	3 / 3	3110	3520	2890	3400	9059	9411
	QF660	260.4	92.9	46.5	67.4	3 / 3	2690	3460	2470	3240	9191	9541
	QF700	276.2	96.9	50.4	71.3	3 / 3	2070	3350	1850	3130	9259	9610
	QF745	293.9	102.8	56.3	77.2	3 / 3	1460	2730	1240	2510	9358	9711
	QF790	311.6	108.7	62.2	83.1	3 / 3	1060	2010	940	1890	9581	9932

Mast Specification (25D-9)

Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free Lift Height		Tilt Angle	Load Capacity without side shift		Load Capacity with side shift		Truck Weight (Unloaded)	
				With Load Backrest	Without Load Backrest		Single Tire	Double Tire	Single Tire	Double Tire	Single Tire	Double Tire
				in	in		24 in LC	24 in LC	24 in LC	24 in LC	lb	lb
2- Stage Limited free lift	V300	118.3	79.7	4.5	4.5	6 / 10	5000	5000	5000	5000	8549	8823
	*V330	130.1	85.6	4.5	4.5	6 / 10	5000	5000	5000	5000	8591	8867
	V350	138.0	89.6	4.5	4.5	6 / 10	5000	5000	5000	5000	8629	8904
	V370	145.9	95.5	4.5	4.5	6 / 10	5000	5000	5000	5000	8655	8933
	V400	157.7	101.4	4.5	4.5	6 / 10	5000	5000	5000	5000	8743	9019
	V430	169.5	107.3	4.5	4.5	6 / 6	5000	5000	5000	5000	8858	9134
	V450	177.4	113.2	4.5	4.5	6 / 6	5000	5000	4870	5000	8907	9182
	V470	185.2	117.1	4.5	4.5	6 / 6	4960	5000	4740	5000	8940	9213
2- Stage full free lift	V500	197.0	123.0	4.5	4.5	6 / 6	4850	5000	4630	5000	8988	9261
	VF295	117.2	79.7	33.3	54.2	6 / 6	5000	5000	5000	5000	8593	8878
	VF325	129.0	85.1	38.7	60.2	6 / 6	5000	5000	5000	5000	8666	8953
	VF345	136.9	89.6	43.1	64.1	6 / 6	5000	5000	5000	5000	8719	9023
3- Stage full free lift	TF370/TS370	145.9	71.9	25.4	46.3	6 / 6	5000	5000	5000	5000	8792	9079
	TF400/TS400	157.7	75.8	29.3	50.3	6 / 6	5000	5000	5000	5000	8845	9131
	TF430/TS430	169.5	79.7	33.3	54.2	6 / 6	5000	5000	5000	5000	8884	9171
	TF450/TS450	177.4	83.7	37.2	58.1	6 / 6	5000	5000	4850	5000	8933	9220
	TF470/TS470	185.2	85.6	39.2	60.1	6 / 6	4920	5000	4700	4860	8964	9248
	TF500/TS500	197.0	89.6	43.1	64.1	6 / 6	4810	4940	4590	4720	9012	9297
	TF550/TS550	216.7	97.4	51.0	71.9	6 / 6	3240	4780	3020	4560	9098	9383
	TF600/TS600	236.4	105.3	58.9	79.8	6 / 6	2930	4590	2710	4370	9242	9526
	TF650/TS650	256.1	113.2	66.7	87.7	3 / 3	2840	4540	2620	4320	9343	9630
4- Stage full free lift	TF700/TS700	275.8	121.1	74.6	95.6	3 / 3	2430	4370	2210	4150	9427	9713
	QF610	240.7	85.0	38.6	59.5	3 / 3	3330	4410	3110	4190	9775	10106
	QF660	260.4	92.9	46.5	67.4	3 / 3	2910	4230	2690	4010	9907	10236
	QF700	276.2	96.9	50.4	71.3	3 / 3	2290	4120	2070	3900	9974	10304
	QF745	293.9	102.8	56.3	77.2	3 / 3	1680	3420	1460	3200	10075	10406
	QF790	311.6	108.7	62.2	83.1	3 / 3	1260	2600	1240	2380	10295	10626

Mast Specification (30D-9)

Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free Lift Height		Tilt Angle	Load Capacity without side shift		Load Capacity with side shift		Truck Weight (Unloaded)	
				With Load Backrest	Without Load Backrest		Single Tire	Double Tire	Single Tire	Double Tire	Single Tire	Double Tire
				in	in		24 in LC	24 in LC	24 in LC	24 in LC	lb	lb
2- Stage Limited free lift	V300	118.3	80.3	4.5	4.5	6 / 10	6000	6000	6000	6000	9431	9638
	*V330	130.1	86.2	4.5	4.5	6 / 10	6000	6000	6000	6000	9475	9683
	V350	138.0	90.2	4.5	4.5	6 / 10	6000	6000	6000	6000	9515	9722
	V370	145.9	96.1	4.5	4.5	6 / 10	6000	6000	6000	6000	9544	9751
	V400	157.7	102.0	4.5	4.5	6 / 10	6000	6000	6000	6000	9632	9841
	V430	169.5	107.9	4.5	4.5	6 / 6	6000	6000	6000	6000	9749	9956
	V450	177.4	113.8	4.5	4.5	6 / 6	6000	6000	5800	6000	9799	10007
2- Stage full free lift	V470	185.2	117.7	4.5	4.5	6 / 6	5910	6000	5610	5830	9832	10040
	V500	197.0	123.6	4.5	4.5	6 / 6	5820	5970	5520	5670	9883	10090
	VF295	117.2	80.3	33.9	51.7	6 / 6	6000	6000	6000	6000	9575	9780
	VF325	129.0	85.1	38.7	60.2	6 / 6	6000	6000	6000	6000	9652	9857
3- Stage full free lift	VF345	136.9	90.2	43.7	61.6	6 / 6	6000	6000	6000	6000	9729	9934
	TF370/TS370	145.9	72.4	26.0	43.9	6 / 6	6000	6000	6000	6000	9815	10020
	TF400/TS400	157.7	76.4	29.9	47.8	6 / 6	6000	6000	6000	6000	9870	10073
	TF430/TS430	169.5	80.3	33.9	51.7	6 / 6	6000	6000	5810	6000	9918	10121
	TF450/TS450	177.4	84.3	37.8	55.7	6 / 6	5930	6000	5630	5830	9974	10179
	TF470/TS470	185.2	86.2	39.8	57.6	6 / 6	5890	5970	5590	5670	10004	10209
	TF500/TS500	197.0	90.2	43.7	61.6	6 / 6	5730	5840	5430	5540	10055	10258
	TF550/TS550	216.7	98.0	51.6	69.4	6 / 6	3660	5640	3360	5340	10152	10355
	TF600/TS600	236.4	105.9	59.4	77.3	6 / 6	3020	5450	2720	5150	10306	10509
4- Stage full free lift	TF650/TS650	256.1	113.8	67.3	85.2	3 / 3	2930	5380	2630	5080	10419	10622
	TF700/TS700	275.8	121.7	75.2	93.1	3 / 3	2540	5200	2240	4900	10514	10719
	QF610	240.7	85.6	39.2	57.0	3 / 3	3530	5290	3230	4990	10719	10963
	QF660	260.4	93.5	47.0	64.9	3 / 3	3130	5090	2830	4790	10851	11096
	QF700	276.2	97.4	51.0	68.9	3 / 3	2510	4960	2210	4660	10971	11162
	QF745	293.9	103.3	56.9	74.8	3 / 3	1870	4830	1570	4530	11019	11263
	QF790	311.6	109.3	62.8	80.7	3 / 3	1480	4650	1180	4350	11239	11486

Mast Specification (33D-9)

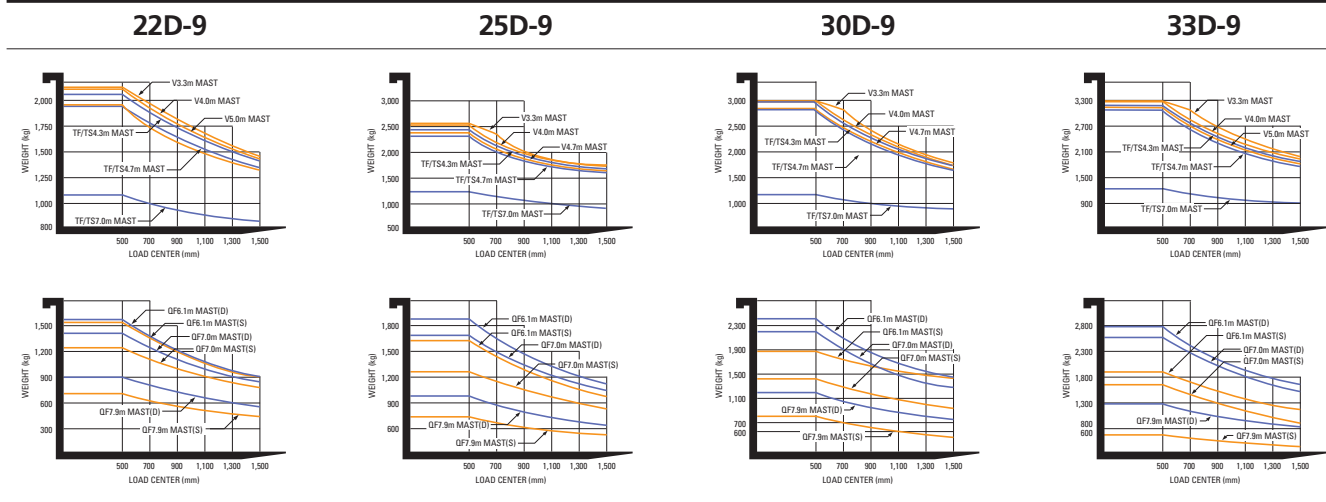
Mast Type		Maximum Fork Height	Overall Height (Lowered)	Free Lift Height		Tilt Angle	Load Capacity without side shift		Load Capacity with side shift		Truck Weight (Unloaded)	
				With Load Backrest	Without Load Backrest		Single Tire	Double Tire	Single Tire	Double Tire	Single Tire	Double Tire
				in	in		24 in LC	24 in LC	24 in LC	24 in LC	lb	lb
2- Stage Limited free lift	V300	118.3	83.1	4.5	4.5	6 / 10	6500	6500	6500	6500	10015	10256
	*V330	130.1	89.0	4.5	4.5	6 / 10	6500	6500	6500	6500	10068	10309
	V350	138.0	92.9	4.5	4.5	6 / 10	6500	6500	6500	6500	10101	10344
	V370	145.9	98.8	4.5	4.5	6 / 10	6500	6500	6500	6500	10135	10373
	V400	157.7	104.7	4.5	4.5	6 / 10	6500	6500	6500	6500	10225	10465
	V430	169.5	110.6	4.5	4.5	6 / 6	6500	6500	6500	6500	10344	10584
	V450	177.4	116.5	4.5	4.5	6 / 6	6500	6500	6500	6500	10395	10637
2- Stage full free lift	V470	185.2	120.5	4.5	4.5	6 / 6	6500	6500	6300	6500	10430	10670
	V500	197.0	126.4	4.5	4.5	6 / 6	6420	6500	6120	6500	10483	10723
	VF295	117.2	83.1	36.6	54.5	6 / 6	6500	6500	6500	6500	10198	10432
	VF325	129.0	88.3	41.9	60.1	6 / 6	6500	6500	6500	6500	10278	10511
3- Stage full free lift	VF345	136.9	89.0	46.5	64.3	6 / 6	6500	6500	6500	6500	10355	10586
	TF370/TS370	145.9	75.2	28.7	43.9	6 / 6	6500	6500	6500	6500	10514	10747
	TF400/TS400	157.7	79.1	32.7	47.8	6 / 6	6500	6500	6500	6500	10562	10796
	TF430/TS430	169.5	83.1	36.6	51.7	6 / 6	6500	6500	6500	6500	10608	10842
	TF450/TS450	177.4	87.0	40.6	55.7	6 / 6	6500	6500	6270	6500	10655	10891
	TF470/TS470	185.2	89.0	42.5	57.6	6 / 6	6350	6500	6050	6290	10686	10919
	TF500/TS500	197.0	92.9	46.5	61.6	6 / 6	6260	6390	5960	6090	10734	10968
	TF550/TS550	216.7	100.8	54.3	69.4	6 / 6	4560	6170	4260	5870	10831	11065
	TF600/TS600	236.4	108.7	62.2	77.3	6 / 6	3130	5950	2830	5650	10992	11226
4- Stage full free lift	TF650/TS650	256.1	116.5	70.1	85.2	3 / 3	3060	5910	2760	5610	11098	11332
	TF700/TS700	275.8	124.4	78.0	93.1	3 / 3	2650	5710	2350	5410	11188	11422
	QF610	240.7	87.6	41.1	57.0	3 / 3	3750	5930	3450	5630	11270	11515
	QF660	260.4	95.5	49.0	64.9	3 / 3	3330	5730	3030	5430	11402	11647
	QF700	276.2	99.4	53.0	68.9	3 / 3	2710	5600	2410	5300	11468	11713
	QF745	293.9	105.3	58.9	74.8	3 / 3	2090	5420	1790	5210	11563	11808
	QF790	311.6	111.2	64.8	80.7	3 / 3	1680	5250	1380	4950	11790	12037

Dimension

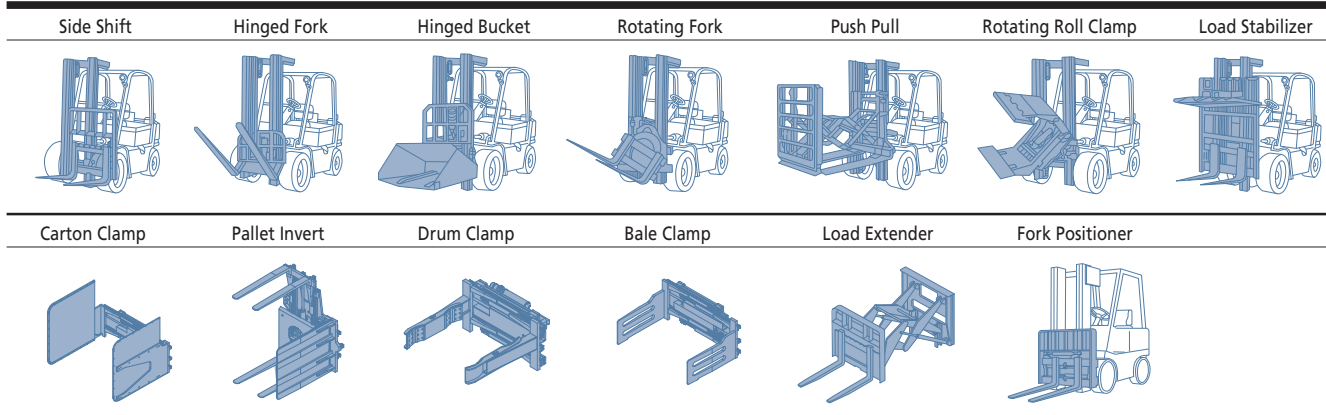


Other Details					
8.1	Type of drive control		PowerShift	PowerShift	PowerShift
8.2	Operating pressure, system / attach	bar	182 / 162	182 / 162	196 / 162
8.3	Oil volume (hydraulic)	l	36	36	38
8.4	Sound pressure level (at driver's ear according to DIN 12053)	dB(A)	80	80	80
8.5	Trailer coupling, type DIN		PIN	PIN	PIN

Load Capacity



Various Applications for Unit



Optional Items

- Fork(in)
 - 22/25D-9 : 36, 42, 48, 54, 60, 72
 - 30/33D-9 : 42, 48, 60, 72
- Sideshift, , Fork positioner
- Tire : Pneumatic(STD)/ Solid(superelastic) / Non-marking /
 - Dual drive (solid or pneumatic)
- M.C.V : 4-Spool
- Auto Fork Leveling System
- Rear View Camera
- Enclosed Cab with Heat
- Beacon Lamp (Bulb or LED) (Amber, Red, Blue)
- Rear work Lamp
- F-N-R & Horn Knob switch
- Rear Horn



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PLEASE CONTACT

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