HYUNDAI MATERIAL HANDLING

Some of the photos may include optional equipment.

25-30 3D-9E

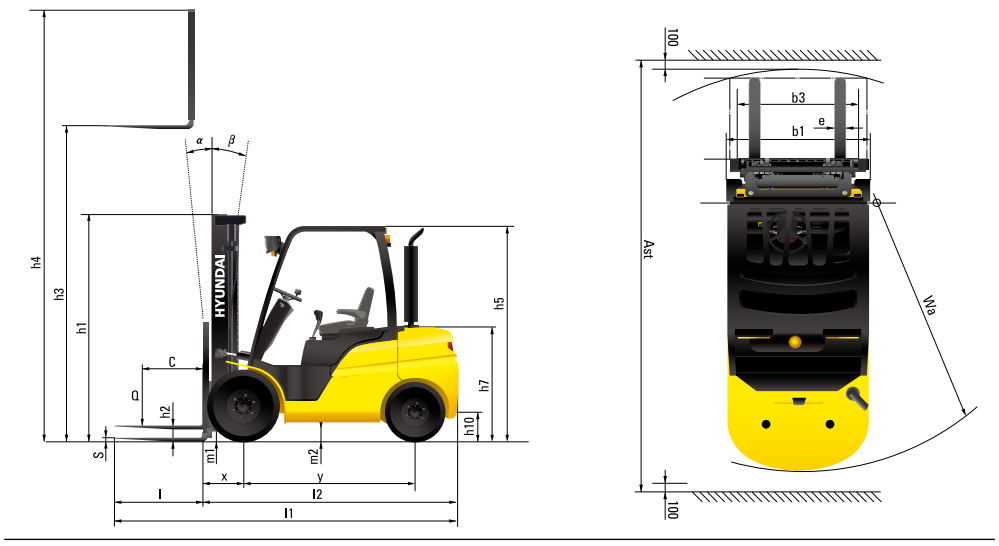
MOVING YOU FURTHER

Specification

Distinguishing mark					
1.1	Manufacturer		Hyundai		
1.2	Manufacturer's model designation		25D-9E	30D-9E	33D-9E
1.3	Drive: electric (battery or mains),diesel,petrol,fuel gas,manual		DIESEL	DIESEL	DIESEL
1.4	Type of operation:hand,pedestrian,standing,seated,order-picker		seated	seated	seated
1.5	Load capacity / Rated load	kg	2500	3000	3300
1.6	Load center distance	c mm	500	500	500
1.8	Load distance, center of drive axle to fork	x mm	468	468	468
1.9	Wheelbase	y mm	1650	1700	1700
Weight					
2.1	Service weight	kg	3825	4219	4500
2.2	Axle loading, loaded front/rear	kg	5549 / 776	6355 / 863	6788 / 1012
2.3	Axle loading, unloaded front/rear	kg	1582 / 2243	1647 / 2572	1609 / 2891
Tires, chassis					
3.1	Tires : Pneumatic(P), Solid(S), Non-marking(N)		P	P	P
3.2	Tires size, front		7.00 - 12, 14PR	28X9 - 15, 14PR	28X9 - 15, 14PR
3.3	Tires size, rear		6.50 - 10, 14PR	6.50 - 10, 14PR	6.50 - 10, 14PR
3.4	Number of wheels front / rear (x=driven wheels)		2x / 2	2x / 2	2x / 2
3.5	Track width, front	mm	999	1005	1005
3.6	Track width, rear	mm	980	980	980
Dimension					
4.1	Mast / fork carriage tilt forward / backward (/)	degrees	6 / 10	6 / 10	6 / 10
4.2	Lowered mast height	h1 (mm)	2175	2190	2260
4.3	Free lift	h2 (mm)	155	155	155
4.4	Lift height	h3 (mm)	3305	3305	3305
4.5	Extended mast height	h4 (mm)	4485	4485	4485
4.7	Overhead guard height (cabin)	h5 (mm)	2160 (2170)	2180 (2190)	2180 (2190)
4.8	Seat height / standing height rel. to SIP	h7 (mm)	1187	1212	1212
4.12	Coupling height	h10 (mm)	295	320	320
4.19	Overall length	l1 (mm)	3657	3726	3782
4.20	Length to face of forks	l2 (mm)	2607	2676	2732
4.21	Overall width	b1 (mm)	1200	1228	1228
4.22	Fork dimensions(hook type)	l / e / s (mm)	1050 x 100 x 45	1050 x 122 x 45	1050 x 122 x 45
4.23	Fork carriage ISO 2328, class / type A,B		2A	3A	3A
4.24	Fork-carriage width	b3 (mm)	1102	1102	1102
4.31	Ground clearance, loaded, under mast	m1(mm)	130	145	145
4.32	Ground clearance, centre of wheelbase	m2(mm)	157	181	181
4.33	Aisle width for pallets 1,000x1,200 crossways (LxW)	Ast(mm)	4010	4081	4131
4.34	Aisle width for pallets 800x1,200 lengthways (WxL)	Ast(mm)	4210	4281	4331
4.35	Turning radius	Wa(mm)	2342	2413	2463
4.36	Smallest pivot point distance	b13 (mm)	714	731	731

Performance data					
5.1	Travel speed, unloaded	km/h	17.1	18.4	18.4
5.2	Lift speed, loaded/ unloaded	mm/s	520 / 590	440 / 490	430 / 490
5.3	Lowering speed, loaded/unloaded	mm/s	500 / 450	500 / 450	500 / 450
5.5	Drawbar pull, loaded	kg	1959	1772	1772
5.7	Gradient performance, loaded	%	28.5	22.3	20.6
5.9	Acceleration time, loaded/ unloaded(10m)	sec	-	-	-
5.10	Service brake		FOOT	FOOT	FOOT
Engine					
6.1	Engine manufacturer / type		Yanmar 4TNE92	Yanmar 4TNE92	Yanmar 4TNE92
6.2	Engine power acc. to ISO 1585	kW/rpm	33.4(45.4ps) / 2450	33.4(45.4ps) / 2450	33.4(45.4ps) / 2450
6.3	Maximum Torque	kgf.m/rpm	14.7 / 1600	14.7 / 1600	14.7 / 1600
6.4	No. of cylinder / cubic capacity	EA/cc	4 / 2659	4 / 2659	4 / 2659
6.5	Fuel consumption acc. To VDI cycle	ℓ /h	3.2	3.4	3.6
Addition data					
8.1	Type of drive control		PowerShift	PowerShift	PowerShift
8.2	Operating pressure, system / attach	bar	182 / 162	196 / 162	196 / 162
8.3	Attach oil volume	ℓ /min	54	54	54
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

Dimension



* All specifications in this catalog are subject to change according to the optional items.

Your satisfaction is our priority!

New Diesel Forklift with Proven Quality and Advanced Technology

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.

High Efficiency
- Tier 4, High power engine : YANMAR 4TNE92 (33.4kW)
- Reduce inching impact : Clutch protection system
- Wet disc brake

Advanced Safety
- Auto parking brake system
- Hill Start Assist Control
- Operator Presence Sensing System (OPT)
- Machine inclination indication

Best Convenience
- 5.6 inch LCD color monitor
- Auto fork leveling system (OPT)
- Load weight indicator (OPT)
- 4 pieces bolt on cabin (OPT)

Easy Maintenance
- Password starting system
- Consumable item replacement cycle warning
- Rear tire cover & under cover (OPT)

Some of the photos may include optional equipment

Power & Performance

High Efficiency & Optimal Performance

Powerful engine and high technology systems provide you with enhanced performance and highest productivity.

Some of the photos may include optional equipment.

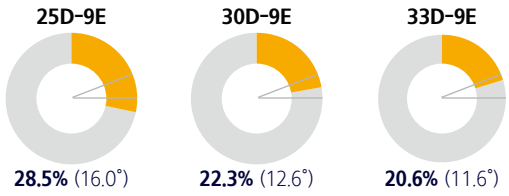
High Power Engine YANMAR 4TNE92

Market approved quality of YANMAR 4TNE92 engine ensures incomparable performance, durability and excellent fuel efficiency. This engine meets EU stage III A emission regulations.

YANMAR 4TNE92 Engine
33.4kW/2,450rpm

Faster Travel Speed & Gradeability

The powerful high-output engine provides greater acceleration, better gradeability and faster travel speed on any tough terrain or slope.

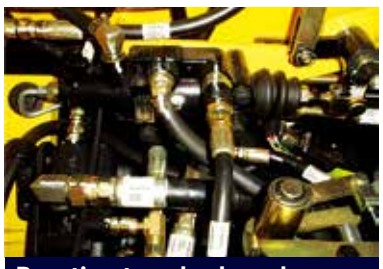


Max. Gradeability(Loaded)

Max. Travel Speed(Unloaded)

Clutch Protection System

The clutch protection system prevents excessive use of inching as well as minimizes change-impact.



Boosting type brake valve (OPT)

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

Highly durable drive axle

The strengthened drive axle separable from transmission ensures low vibration and easy maintenance. The wet disc type brake is applied for easy operation, smooth response and maintenance free.

Fully hydrostatic power steering

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

Oil cooled disc brake

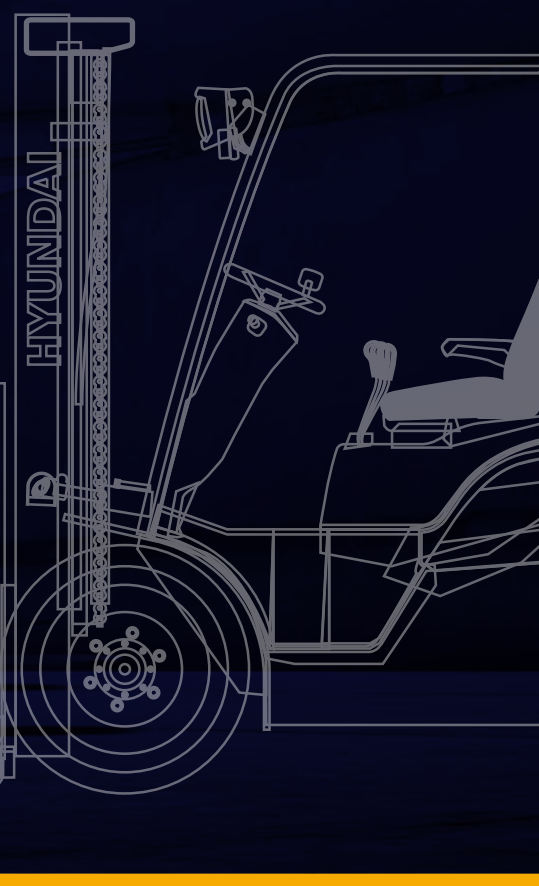
The wet brakes with excellent braking power and durability offer a stable and reliable braking power. Also, an oil cooler has been added to improve durability in working environments where the frequency of brake operation is high.

Some of the photos may include optional equipment.

Easy & Comfort

Best Convenience & Optimized Ergonomics

Powerful engine and high technology systems provide you with enhanced performance and high productivity.



Spacious Operator Cabin

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

Grammer Seat (STD)

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

- ELR(Emergency Locking Retractor) type seat belt as a standard
- Heating(STD) and head rest(OPT)

Optimized pedal position

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

Adjustable steering Wheel

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

Low entrance height

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

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.

Main monitoring features

- Hour-meter
- Fuel level gauge(Warning-Red)
- Signal / Warning light
- Gear (F / N / R)
- Speedometer
- Mast tilting degree(Alarm-Red)
- Clock
- Engine temperature gauge(Warning-Red)
- Odometer

❶ Load Indicator (OPT)

The optional 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.

❷Auto Fork Leveling System (OPT)

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

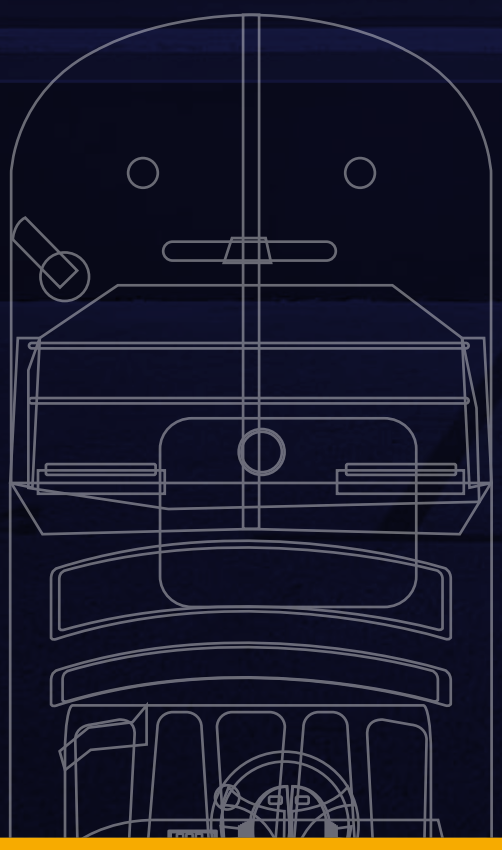
❸ Machine inclination indication

The grade (left) and slope (right) sensors are built into the MCU and provide the grade and slope status information of the vehicle connected with the road surface condition in real time.

Secure & Safety

Advanced Safety

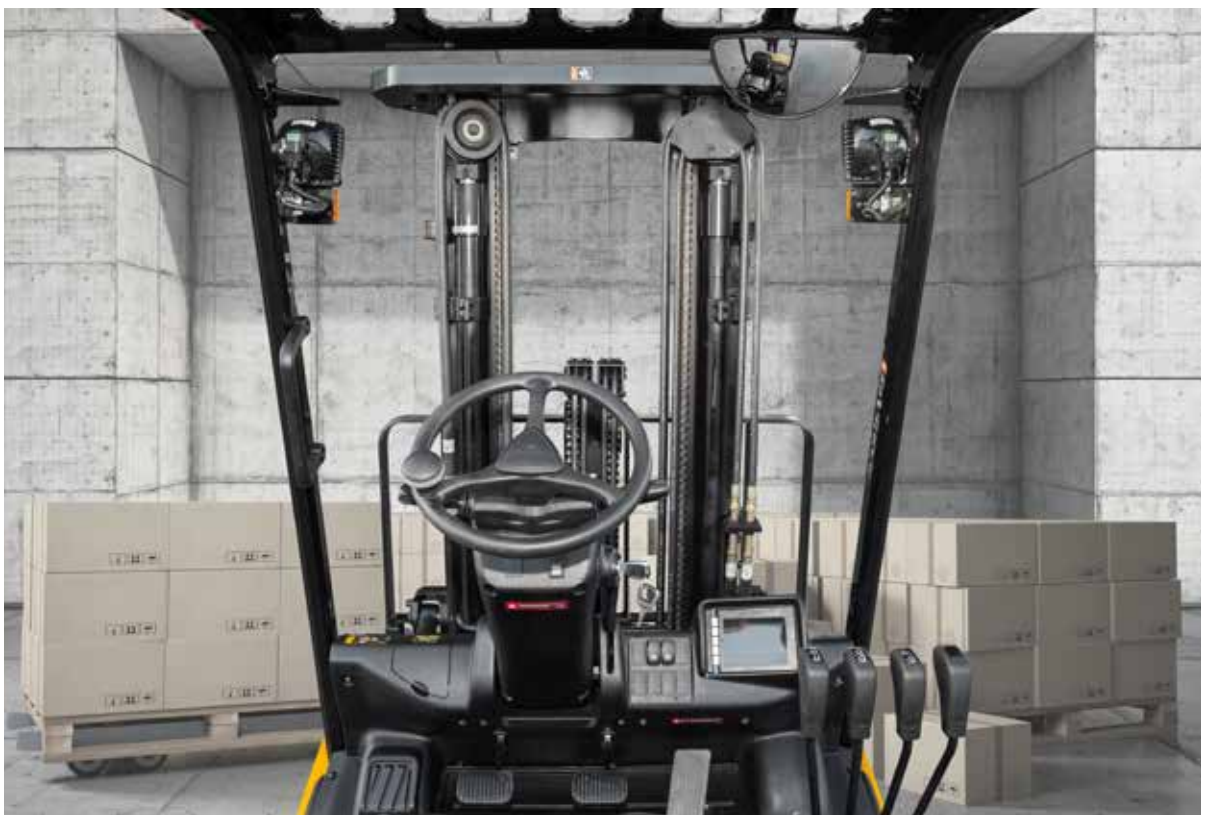
The safely designed driver's space makes your operating more comfortable.



Some of the photos may include optional equipment.

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.

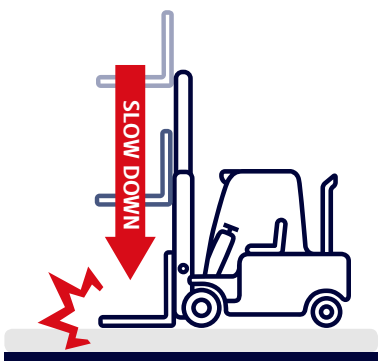


Safety Lamps & Rear Reflectors

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.

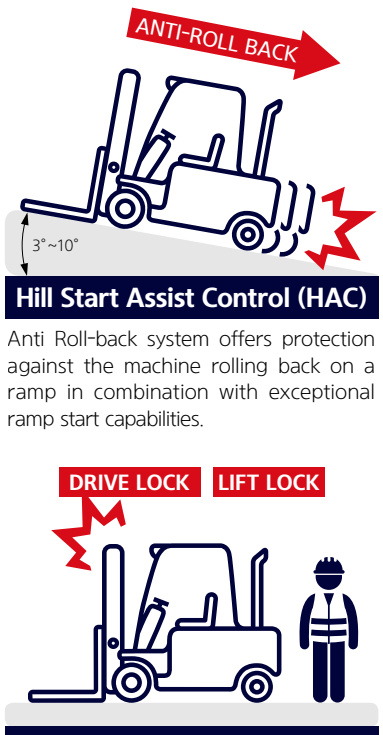
Various Safety System

The adoption of a high-sensitivity sensor and advanced safety system eliminates the risk of safety accidents.



Fork Safety Features

The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.



Operator Presence Sensing System

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

Strong overhead guard

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

Hill Start Assist Control (HAC)

Anti Roll-back system offers protection against the machine rolling back on a ramp in combination with exceptional ramp start capabilities.

Auto parking brake

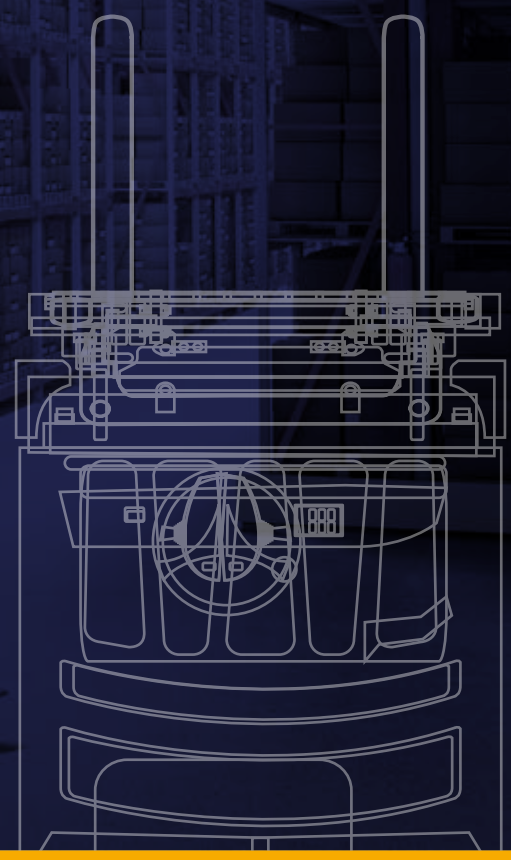
If the operator leaves the seat while the gear lever is in neutral, the parking brake is automatically engaged to secure safety, and released upon the operator's return to the seat.

Maintenance & Convenience

Fast and Easy Maintenance

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

Some of the photos may include optional equipment.



Large Engine Hood

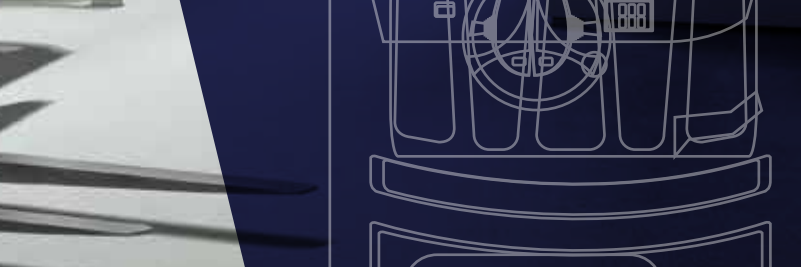
Highly accessible engine compartment assures fast and efficient maintenance. The enlarged air cleaner(8") has extended service time of engine.

Rear view camera (OPT)

The rear view camera and monitor connected with the reverse switch guarantee a safe working environment.

Parking brake switch (STD) & Emergency switch (OPT)

A button-type switches enables to notify of emergency situations quickly and operate easily.



Bolt on type cabin

The bolt on type cabin consists of front side, door front, door rear, and rear side. It is easy to assemble by bolt and mount parts. Also, cabin can be selected by module or parts and air conditioner and heater are separately available for driver's convenience.

Waterproof & Dustproof cover

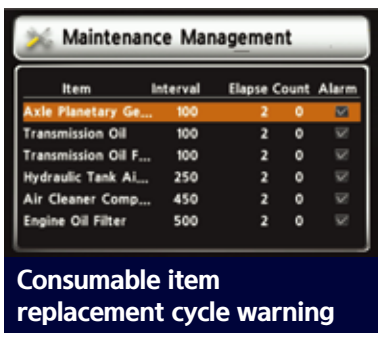
Newly developed Waterproof and Dustproof fuse box and relay box for ease of maintenance.

Rear tire & Under cover (OPT)

The rear tire cover and under cover with PE material protect the engine, radiator, and components from dusts caused by ground. Also, these options can be selected separately.

Password starting system

By granting the operation authority only to the designated driver, it is possible to manage the vehicle and prevent theft.



Consumable item replacement cycle warning

This indicator automatically alerts the operator of the replacement cycle of key consumable items before a failure occurs; making managing maintenance easy, and to help extend the life of the machine.

New 9 Series Mast Specifications

25/30/33D-9E

25D-9E

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Free lift height						Tilt Angle		Load capacity w/o side shift				Load capacity w/side shift				TRUCK WEIGHT (UNLOADED)			
						With Load Backrest		Without Load Backrest		Without Load Backrest (3/4-SPOOL)				Single Tire		Double Tire		Single Tire		Double Tire		Single Tire		Double Tire	
														24 in LC	500mm LC	24 in LC	500mm LC	24 in LC	500mm LC	24 in LC	500mm 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	V300	118.3	3005	79.7	2025	4.5	155	4.5	155	4.5	155	6	10	5000	2500	5000	2500	5000	2500	5000	2500	8391	3806	8664	3930
	*V330	130.1	3305	85.6	2175							6	10	5000	2500	5000	2500	5000	2500	5000	2500	8433	3825	8708	3950
	V350	138.0	3505	89.6	2275							6	10	5000	2500	5000	2500	5000	2500	5000	2500	8470	3842	8746	3967
	V370	145.9	3705	95.5	2425							6	10	5000	2500	5000	2500	5000	2460	5000	2500	8496	3854	8774	3980
	V400	157.7	4005	101.4	2575							6	10	5000	2500	5000	2500	5000	2380	5000	2500	8585	3894	8860	4019
	V430	169.5	4305	107.3	2725							6	6	5000	2480	5000	2500	5000	2360	5000	2500	8699	3946	8975	4071
	V450	177.4	4505	113.2	2875							6	6	5000	2430	5000	2500	4870	2310	5000	2460	8748	3968	9023	4093
	V470	185.2	4705	117.1	2975							6	6	4960	2390	5000	2500	4740	2270	5000	2380	8781	3983	9054	4107
	V500	197.0	5005	123.0	3125							6	6	4850	2330	5000	2430	4630	2210	5000	2310	8829	4005	9103	4129
2-STAGE FULL FREE LIFT	VF295	117.2	2976	79.7	2025	33.3	845	54.2	1377	54	1377	6	6	5000	2500	5000	2500	5000	2500	5000	2500	8435	3826	8719	3955
	VF325	129.0	3276	85.1	2175	38.7	995	60.2	1527	60	1527	6	6	5000	2500	5000	2500	5000	2460	5000	2500	8508	3859	8794	3989
	VF345	136.9	3476	89.6	2275	43.1	1095	64.1	1627	64	1627	6	6	5000	2500	5000	2500	5000	2380	5000	2460	8560	3883	8865	4021
3-STAGE FULL FREE LIFT	TF370	145.9	3705	71.9	1825	25.4	645	46.3	1177	43	1081	6	6	5000	2500	5000	2500	5000	2460	5000	2500	8633	3916	8920	4046
	TF400	157.7	4005	75.8	1925	29.3	745	50.3	1277	46	1181	6	6	5000	2500	5000	2500	5000	2380	5000	2500	8686	3940	8973	4070
	TF430	169.5	4305	79.7	2025	33.3	845	54.2	1377	50	1281	6	6	5000	2440	5000	2500	5000	2320	5000	2460	8726	3958	9012	4088
	TF450	177.4	4505	83.7	2125	37.2	945	58.1	1477	56	1431	6	6	5000	2410	5000	2500	4850	2290	5000	2380	8774	3980	9061	4110
	TF470	185.2	4705	85.6	2175	39.2	995	60.1	1527	56	1431	6	6	4920	2360	5000	2450	4700	2240	4860	2330	8805	3994	9090	4123
	TF500	197.0	5005	89.6	2275	43.1	1095	64.1	1627	60	1531	6	6	4810	2310	4940	2400	4590	2190	4720	2280	8854	4016	9138	4145
	TF550	216.7	5505	97.4	2475	51.0	1295	71.9	1827	70	1781	6	6	3240	1550	4780	2310	3020	1430	4560	2190	8940	4055	9224	4184
	TF600	236.4	6005	105.3	2675	58.9	1495	79.8	2027	78	1981	6	6	2930	1400	4590	2210	2710	1280	4370	2090	9083	4120	9367	4249
	TF650	256.1	6505	113.2	2875	66.7	1695	80.5	2044	75	1904	3	3	2840	1350	4540	2180	2620	1230	4320	2060	9184	4166	9471	4296
	TF700	275.8	7005	121.1	3075	74.6	1895	88.3	2244	83	2104	3	3	2430	1150	4370	2100	2210	930	4150	1980	9268	4204	9555	4334
	TS370	145.9	3705	71.9	1825	25.4	645	46.3	1177	37	946	6	6	5000	2500	5000	2500	5000	2460	5000	2500	8633	3916	8920	4046
	TS400	157.7	4005	75.8	1925	29.3	745	50.3	1277	41	1046	6	6	5000	2500	5000	2500	5000	2380	5000	2500	8686	3940	8973	4070
	TS430	169.5	4305	79.7	2025	33.3	845	54.2	1377	45	1146	6	6	5000	2440	5000	2500	5000	2320	5000	2460	8726	3958	9012	4088
	TS450	177.4	4505	83.7	2125	37.2	945	58.1	1477	53	1346	6	6	5000	2410	5000	2500	4850	2290	5000	2380	8774	3980	9061	4110
	TS470	185.2	4705	85.6	2175	39.2	995	60.1	1527	51	1296	6	6	4920	2360	5000	2450	4700	2240	4860	2330	8805	3994	9090	4123
	TS500	197.0	5005	89.6	2275	43.1	1095	64.1	1627	55	1396	6	6	4810	2310	4940	2400	4590	2190	4720	2280	8854	4016	9138	4145
	TS550	216.7	5505	97.4	2475	51.0	1295	71.9	1827	67	1696	6	6	3240	1550	4780	2310	3020	1430	4560	2190	8940	4055	9224	4184
	TS600	236.4	6005	105.3	2675	58.9	1495	79.8	2027	75	1896	6	6	2930	1400	4590	2210	2710	1280	4370	2090	9083	4120	9367	4249
	TS650	256.1	6505	113.2	2875	66.7	1695	79.4	2016	74	1876	3	3	2840	1350	4540	2180	2620	1230	4320	2060	9184	4166	9471	4296
	TS700	275.8	7005	121.1	3075	74.6	1895	87.2	2216	82	2076	3	3	2430	1150	4370	2100	2210	930	4150	1980	9268	4204	9555	4334
4-STAGE FULL FREE LIFT	QF610	240.7	6115	85.0	2160	38.6	980	59.5	1512	56	1412	3	3	3330	1600	4410	2120	3110	1480	4190	2000	9616	4362	9947	4512
	QF660	260.4	6615	92.9	2360	46.5	1180	67.4	1712	63	1612	3	3	2910	1400	4230	2040	2690	1280	4010	1920	9749	4422	10077	4571
	QF700	276.2	7015	96.9	2460	50.4	1280	71.3	1812	67	1712	3	3	2290	1100	4120	1980	2070	980	3900	1860	9815	4452	10146	4602
	QF745	293.9	7465	102.8	2610	56.3	1430	75.4	1915	69	1762	3	3	1680	800	3420	1650	1460	680	3200	1530	9916	4498	10247	4648
	QF790	311.6	7915	108.7	2760	62.2	1580	75.4	1915	69	1762	3	3	1260	600	2600	1250	1240	480	2380	1130	10137	4598	10467	4748

※ : **Standard**

New 9 Series Mast Specifications

30D-9E

Mast Type		Maximum Fork Height		Overall Height (Lowered)		Free lift height						Tilt Angle		Load capacity w/o side shift				Load capacity w/side shift				TRUCK WEIGHT (UNLOADED)			
						With Load Backrest		Without Load Backrest		Without Load Backrest (3/4-SPOOL)				Single Tire		Double Tire		Single Tire		Double Tire		Single Tire		Double Tire	
														24 in LC	500mm LC	24 in LC	500mm LC	24 in LC	500mm LC	24 in LC	500mm 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	V300	118.3	3005	80.3	2040	4.5	155	4.5	155	4.5	155	6	10	6000	3000	6000	3000	6000	3000	6000	3000	9257	4199	9464	4293
	*V330	130.1	3305	86.2	2190							6	10	6000	3000	6000	3000	6000	3000	6000	3000	9301	4219	9508	4313
	V350	138.0	3505	90.2	2290							6	10	6000	3000	6000	3000	6000	3000	6000	3000	9341	4237	9548	4331
	V370	145.9	3705	96.1	2440							6	10	6000	3000	6000	3000	6000	2930	6000	3000	9370	4250	9577	4344
	V400	157.7	4005	102.0	2590							6	10	6000	3000	6000	3000	6000	2820	6000	3000	9458	4290	9667	4385
	V430	169.5	4305	107.9	2740							6	6	6000	2960	6000	3000	6000	2780	6000	2950	9575	4343	9782	4437
	V450	177.4	4505	113.8	2890							6	6	6000	2920	6000	3000	5800	2740	6000	2825	9625	4366	9832	4460
	V470	185.2	4705	117.7	2990							6	6	5910	2850	6000	2930	5610	2670	5830	2755	9658	4381	9866	4475
	V500	197.0	5005	123.6	3140							6	6	5820	2650	5970	2890	5520	2470	5670	2715	9709	4404	9916	4498
2-STAGE FULL FREE LIFT	VF295	117.2	2976	80.3	2040	33.9	860	51.7	1314	51.7	1314	6	6	6000	3000	6000	3000	6000	3000	6000	3000	9400	4264	9605	4357
	VF325	129.0	3276	85.1	2190	38.7	1010	60.2	1464	58	1464	6	6	6000	3000	6000	3000	6000	2950	6000	3000	9478	4299	9683	4392
	VF345	136.9	3476	90.2	2290	43.7	1110	61.6	1564	62	1564	6	6	6000	3000	6000	3000	6000	2820	6000	2950	9555	4334	9760	4427
3-STAGE FULL FREE LIFT	TF370	145.9	3705	72.4	1840	26.0	660	43.9	1114	43	1081	6	6	6000	3000	6000	3000	6000	2820	6000	3000	9641	4373	9846	4466
	TF400	157.7	4005	76.4	1940	29.9	760	47.8	1214	46	1181	6	6	6000	3000	6000	3000	6000	2800	6000	2950	9696	4398	9899	4490
	TF430	169.5	4305	80.3	2040	33.9	860	51.7	1314	50	1281	6	6	6000	2930	6000	3000	5810	2750	6000	2825	9744	4420	9947	4512
	TF450	177.4	4505	84.3	2140	37.8	960	55.7	1414	56	1414	6	6	5930	2880	6000	2940	5630	2700	5830	2765	9799	4445	10004	4538
	TF470	185.2	4705	86.2	2190	39.8	1010	57.6	1464	56	1431	6	6	5890	2850	5970	2900	5590	2670	5670	2725	9830	4459	10035	4552
	TF500	197.0	5005	90.2	2290	43.7	1110	61.6	1564	60	1531	6	6	5730	2700	5840	2840	5430	2520	5540	2665	9881	4482	10084	4574
	TF550	216.7	5505	98.0	2490	51.6	1310	69.4	1764	69	1764	6	6	3660	1750	5640	2720	3360	1570	5340	2545	9978	4526	10181	4618
	TF600	236.4	6005	105.9	2690	59.4	1510	77.3	1964	77	1964	6	6	3020	1450	5450	2630	2720	1270	5150	2455	10132	4596	10335	4688
	TF650	256.1	6505	113.8	2890	67.3	1710	81.1	2061	76	1921	3	3	2930	1400	5380	2590	2630	1220	5080	2415	10245	4647	10448	4739
	TF700	275.8	7005	121.7	3090	75.2	1910	89.0	2261	84	2121	3	3	2540	1200	5200	2500	2240	1020	4900	2325	10340	4690	10545	4783
	TS370	145.9	3705	72.4	1840	26.0	660	43.9	1114	41	1053	6	6	6000	3000	6000	3000	6000	2820	6000	3000	9641	4373	9846	4466
	TS400	157.7	4005	76.4	1940	29.9	760	47.8	1214	45	1153	6	6	6000	3000	6000	3000	6000	2800	6000	2950	9696	4398	9899	4490
	TS430	169.5	4305	80.3	2040	33.9	860	51.7	1314	49	1253	6	6	6000	2930	6000	3000	5810	2750	6000	2825	9744	4420	9947	4512
	TS450	177.4	4505	84.3	2140	37.8	960	55.7	1414	55	1403	6	6	5930	2880	6000	2940	5630	2700	5830	2765	9799	4445	10004	4538
	TS470	185.2	4705	86.2	2190	39.8	1010	57.6	1464	55	1403	6	6	5890	2850	5970	2900	5590	2670	5670	2725	9830	4459	10035	4552
	TS500	197.0	5005	90.2	2290	43.7	1110	61.6	1564	59	1503	6	6	5730	2700	5840	2840	5430	2520	5540	2665	9881	4482	10084	4574
	TS550	216.7	5505	98.0	2490	51.6	1310	69.4	1764	69	1753	6	6	3660	1750	5640	2720	3360	1570	5340	2545	9978	4526	10181	4618
	TS600	236.4	6005	105.9	2690	59.4	1510	77.3	1964	77	1953	6	6	3020	1450	5450	2630	2720	1270	5150	2455	10132	4596	10335	4688
	TS650	256.1	6505	113.8	2890	67.3	1710	80.0	2033	75	1893	3	3	2930	1400	5380	2590	2630	1220	5080	2415	10245	4647	10448	4739
	TS700	275.8	7005	121.7	3090	75.2	1910	87.9	2233	82	2093	3	3	2540	1200	5200	2500	2240	1020	4900	2325	10340	4690	10545	4783
4-STAGE FULL FREE LIFT	QF610	240.7	6115	85.6	2175	39.2	995	57.0	1449	57	1449	3	3	3530	1700	5290	2560	3230	1520	4990	2385	10545	4783	10789	4894
	QF660	260.4	6615	93.5	2375	47.0	1195	64.9	1649	65	1649	3	3	3130	1500	5090	2460	2830	1320	4790	2285	10677	4843	10922	4954
	QF700	276.2	7015	97.4	2475	51.0	1295	68.9	1749	69	1749	3	3	2510	1200	4960	2400	2210	1020	4660	2225	10743	4873	10988	4984
	QF745	293.9	7465	103.3	2625	56.9	1445	74.8	1899	69	1762	3	3	1870	900	4830	2320	1570	720	4530	2145	10844	4919	11089	5030
	QF790	311.6	7915	109.3	2775	62.8	1595	75.4	1915	69	1762	3	3	1480	700	4650	2230	1180	520	4350	2055	11065	5019	11312	5131

※ : **Standard**

New 9 Series Mast Specifications

33D-9E

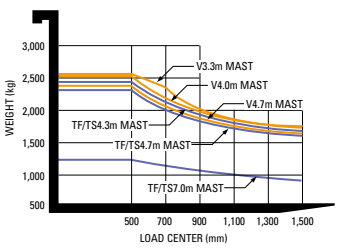
Mast Type		Maximum Fork Height		Overall Height (Lowered)		Free lift height						Tilt Angle		Load capacity w/o side shift				Load capacity w/side shift				TRUCK WEIGHT (UNLOADED)			
						With Load Backrest		Without Load Backrest		Without Load Backrest (3/4-SPOOL)				Single Tire		Double Tire		Single Tire		Double Tire		Single Tire		Double Tire	
														24 in LC	500mm LC	24 in LC	500mm LC	24 in LC	500mm LC	24 in LC	500mm LC				
		in	mm	in	mm	in	mm	in	mm	in	mm	Fwd	Bwd	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg
2-STAGE LIMITED FREE LIFT	V300	118.3	3005	83.1	2110	4.5	155	4.5	155	4.5	155	6	10	6500	3300	6500	3300	6500	3300	6500	3300	9868	4476	10108	4585
	*V330	130.1	3305	89.0	2260							6	10	6500	3300	6500	3300	6500	3300	6500	3300	9921	4500	10161	4609
	V350	138.0	3505	92.9	2360							6	10	6500	3300	6500	3300	6500	3300	6500	3300	9954	4515	10196	4625
	V370	145.9	3705	98.8	2510							6	10	6500	3300	6500	3300	6500	3210	6500	3300	9987	4530	10225	4638
	V400	157.7	4005	104.7	2660							6	10	6500	3300	6500	3300	6500	3120	6500	3300	10077	4571	10317	4680
	V430	169.5	4305	110.6	2810							6	6	6500	3250	6500	3300	6500	3070	6500	3250	10196	4625	10437	4734
	V450	177.4	4505	116.5	2960							6	6	6500	3190	6500	3300	6500	3010	6500	3125	10247	4648	10489	4758
	V470	185.2	4705	120.5	3060							6	6	6500	3140	6500	3240	6300	2960	6500	3065	10282	4664	10523	4773
	V500	197.0	5005	126.4	3210							6	6	6420	3100	6500	3170	6120	2920	6500	2995	10335	4688	10575	4797
2-STAGE FULL FREE LIFT	VF295	117.2	2976	83.1	2110	36.6	930	54.5	1384	54	1384	6	6	6500	3300	6500	3300	6500	3300	6500	3300	10051	4559	10284	4665
	VF325	129.0	3276	88.3	2260	41.9	1080	60.1	1534	60	1534	6	6	6500	3300	6500	3300	6500	3210	6500	3300	10130	4595	10364	4701
	VF345	136.9	3476	89.0	2260	46.5	1180	64.3	1634	64	1634	6	6	6500	3300	6500	3300	6500	3120	6500	3250	10207	4630	10439	4735
3-STAGE FULL FREE LIFT	TF370	145.9	3705	75.2	1910	28.7	730	43.9	1114	44	1114	6	6	6500	3300	6500	3300	6500	3120	6500	3250	10366	4702	10600	4808
	TF400	157.7	4005	79.1	2010	32.7	830	47.8	1214	48	1214	6	6	6500	3250	6500	3300	6500	3070	6500	3125	10414	4724	10648	4830
	TF430	169.5	4305	83.1	2110	36.6	930	51.7	1314	52	1314	6	6	6500	3180	6500	3280	6500	3000	6500	3105	10461	4745	10694	4851
	TF450	177.4	4505	87.0	2210	40.6	1030	55.7	1414	56	1414	6	6	6500	3120	6500	3220	6270	2940	6500	3045	10507	4766	10743	4873
	TF470	185.2	4705	89.0	2260	42.5	1080	57.6	1464	58	1464	6	6	6350	3080	6500	3170	6050	2900	6290	2995	10538	4780	10772	4886
	TF500	197.0	5005	92.9	2360	46.5	1180	61.6	1564	62	1564	6	6	6260	3030	6390	3110	5960	2850	6090	2935	10586	4802	10820	4908
	TF550	216.7	5505	100.8	2560	54.3	1380	69.4	1764	69	1764	6	6	4560	2200	6170	2990	4260	2020	5870	2815	10683	4846	10917	4952
	TF600	236.4	6005	108.7	2760	62.2	1580	77.3	1964	77	1964	6	6	3130	1500	5950	2870	2830	1320	5650	2695	10844	4919	11078	5025
	TF650	256.1	6505	116.5	2960	70.1	1780	85.2	2164	81	2061	3	3	3060	1450	5910	2830	2760	1280	5610	2655	10950	4967	11184	5073
	TF700	275.8	7005	124.4	3160	78.0	1980	93.1	2364	89	2261	3	3	2650	1250	5710	2730	2350	1080	5410	2555	11041	5008	11274	5114
	TS370	145.9	3705	75.2	1910	28.7	730	43.9	1114	44	1114	6	6	6500	3300	6500	3300	6500	3120	6500	3250	10366	4702	10600	4808
	TS400	157.7	4005	79.1	2010	32.7	830	47.8	1214	48	1214	6	6	6500	3250	6500	3300	6500	3070	6500	3125	10414	4724	10648	4830
	TS430	169.5	4305	83.1	2110	36.6	930	51.7	1314	52	1314	6	6	6500	3180	6500	3280	6500	3000	6500	3105	10461	4745	10694	4851
	TS450	177.4	4505	87.0	2210	40.6	1030	55.7	1414	56	1414	6	6	6500	3120	6500	3220	6270	2940	6500	3045	10507	4766	10743	4873
	TS470	185.2	4705	89.0	2260	42.5	1080	57.6	1464	58	1464	6	6	6350	3080	6500	3170	6050	2900	6290	2995	10538	4780	10772	4886
	TS500	197.0	5005	92.9	2360	46.5	1180	61.6	1564	62	1564	6	6	6260	3030	6390	3110	5960	2850	6090	2935	10586	4802	10820	4908
	TS550	216.7	5505	100.8	2560	54.3	1380	69.4	1764	69	1764	6	6	4560	2200	6170	2990	4260	2020	5870	2815	10683	4846	10917	4952
	TS600	236.4	6005	108.7	2760	62.2	1580	77.3	1964	77	1964	6	6	3130	1500	5950	2870	2830	1320	5650	2695	10844	4919	11078	5025
	TS650	256.1	6505	116.5	2960	70.1	1780	85.2	2164	80	2033	3	3	3060	1450	5910	2830	2760	1280	5610	2655	10950	4967	11184	5073
	TS700	275.8	7005	124.4	3160	78.0	1980	93.1	2364	88	2233	3	3	2650	1250	5710	2730	2350	1080	5410	2555	11041	5008	11274	5114
4-STAGE FULL FREE LIFT	QF610	240.7	6115	87.6	2225	41.1	1045	57.0	1449	57	1449	3	3	3750	1800	5930	2870	3450	1620	5630	2695	11122	5045	11367	5156
	QF660	260.4	6615	95.5	2425	49.0	1245	64.9	1649	65	1649	3	3	3330	1600	5730	2770	3030	1420	5430	2595	11254	5105	11499	5216
	QF700	276.2	7015	99.4	2525	53.0	1345	68.9	1749	69	1749	3	3	2710	1300	5600	2700	2410	1120	5300	2525	11321	5135	11565	5246
	QF745	293.9	7465	105.3	2675	58.9	1495	74.8	1899	73	1862	3	3	2090	1000	5420	2620	1790	820	5120	2445	11415	5178	11660	5289
	QF790	311.6	7915	111.2	2825	64.8	1645	79.3	2015	73	1862	3	3	1680	800	5250	2530	1380	620	4950	2355	11642	5281	11889	5393

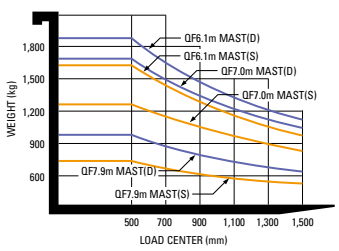
※ : **Standard**

New 9 Series

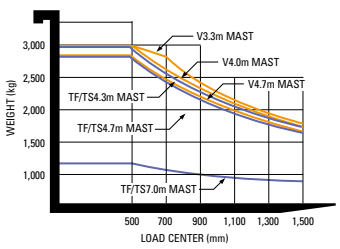
Load Capacity

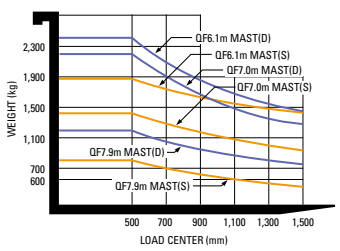
25D-9E



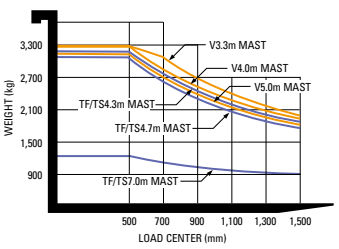


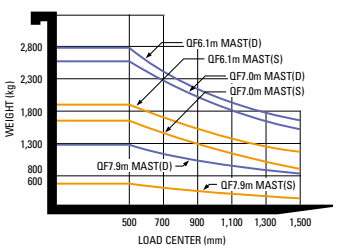
30D-9E





33D-9E

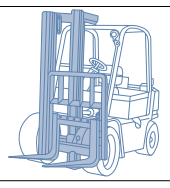
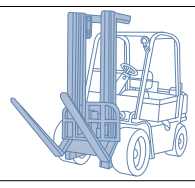
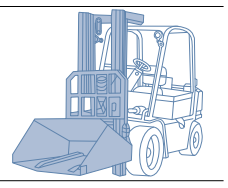
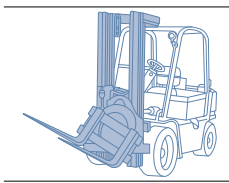
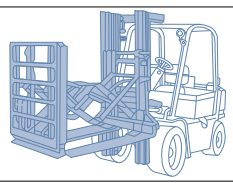
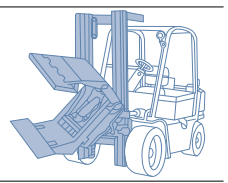
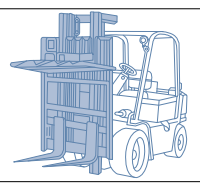
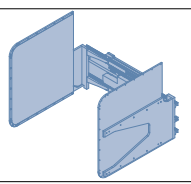
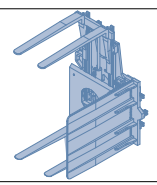
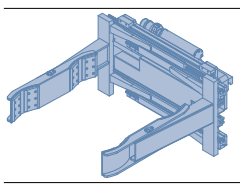
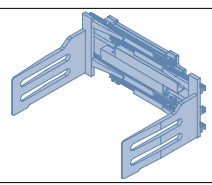
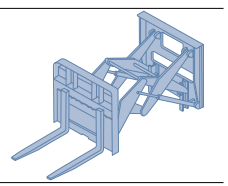
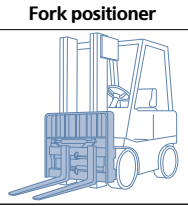




Optional Items

- **Fork(mm)**
  25D-9E : 900, 1000, 1050(STD), 1200, 1350, 1500, 1650, 1800, 2100
  30/33D-9E : 900, 1050(STD), 1150, 1200, 1350, 1500, 1650, 1800, 1970, 2120, 2300, 2400
- **Integral Sideshift, , Fork positioner, Sideshift**
- **Tire : Pneumatic(STD)/ Solid(superelastic) / Non-marking / Front double tire**
- **M.C.V : 4-Spool, 3-Spool(STD), 2-Spool**
- **Seat : Armrest, Heat, Backrest Ext, Buckle SW**
- **Load Indicator**
- **Auto Fork Leveling System**
- **Rear Tire & Under Cover**
- **Rear View Camera**
- **Cabin (Heater)**
- **Hydraulic Pump Temperature / Pressure Monitor**
- **Battery Disconnect Switch (Master Switch)**
- **Beacon Lamp LED (Amber, Red, Blue)**
- **Rear Work Lamp**
- **F-N-R & Horn Knob switch**
- **Rear Horn**
- **Fire Extinguisher**
- **Pre Cleaner**
- **Emergency Switch**
- **OPSS (Travel, Mast)**

Attachments

Side shift	Hinged fork	Hinged bucket
		
Rotating fork	**Push pull**	**Rotating roll clamp**
		
Load stabilizer	**Carton clamp**	**Pallet inverter**
		
Drum clamp	**Veil clamp**	**Load extender**
		
Fork positioner		
		

* All specifications and photos in this catalog are subject to change for quality improvement.