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MOVING YOU FURTHER

35·40
45D-9F
50DA-9F



Some of the photos may include optional equipment.

Your satisfaction is our priority!

Qualified performance! The best design! Hyundai 9 Series medium-size diesel forklift

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

These forklifts deliver outstanding performance for every working environment and economic value.

The new Hyundai diesel forklifts will bring you pride beyond satisfaction.

- Powerful performance
- Spacious operating space
- Grammer seat (hot wire) as a standard
- Push-type inching system
 - inching pedal, pedal force relieved
- 5.6 inch LCD color monitor
- Machine inclination warning system
- Speed limit setting
- Operator presence sensing system (OPSS)
- Load weight indicator (OPT)
- Auto fork leveling system (OPT)





Power & Performance

Strong power, High performance

The 9F-series forklifts are designed to achieve optimized performance in any work environment and improve system. You will be impressed beyond the customer satisfaction.



Some of the photos may include optional equipment.



Powerful and economical KUBOTA V3800 Engine!

(Complies with Tier-4 exhaust gas regulation)

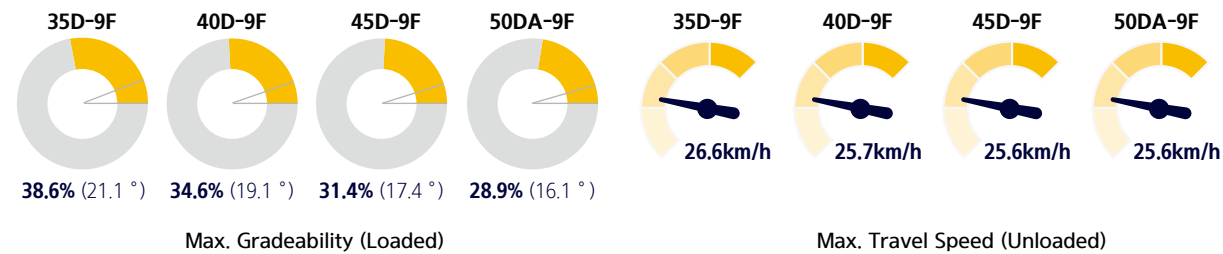
No Adblue required due to adoption of device for postprocessing DOC exhaust gas

The electronic turbo KUBOTA engine guarantees optimized work efficiency under any working conditions. Fuel efficiency is enhanced and high capacity with low noise is realized by direct injection and optimized driving system. In particular, there's no need to inject Adblue due to adoption of the Diesel Oxidation Catalyst (DOC) as an exhaust gas postprocessing device. It is possible to reduce maintenance costs and maintain easily.

75.3PS/2,200rpm (gross)
31.6kgf · m/1,500rpm (gross)

Excellent gradeability and travel speed

Equipped with the most powerful engine in its class, the 9F-series can perform stable operations and provides excellent gradeability and fast travel speed on any tough terrain or slope.



Highly durable two-speed transmission

Powershift transmission of forward 2 stages and reverse 2 stages provides fast travel speed under any working environments. And the clutch protection system prevents excessive use of inching as well as minimized change-impact.



Powerful drive axle and wet brake

The drive axle has excellent efficiency and long durability and the wet disc brake can be used semipermanently.



Economical transmission (OPT)

Transmission which has the torque converter with the dual-state type guarantees uniform driving performance and durability.



Hydraulic brake system

The master cylinder and wet disk brake system make strong and reliable braking power with a simple operation.



Fully hydraulic steering system

The hydraulic steering system guarantees simple and quick operation, preventing kick-back.



Integrated wheel rim

The integrated wheel rim provides significantly increased service life.



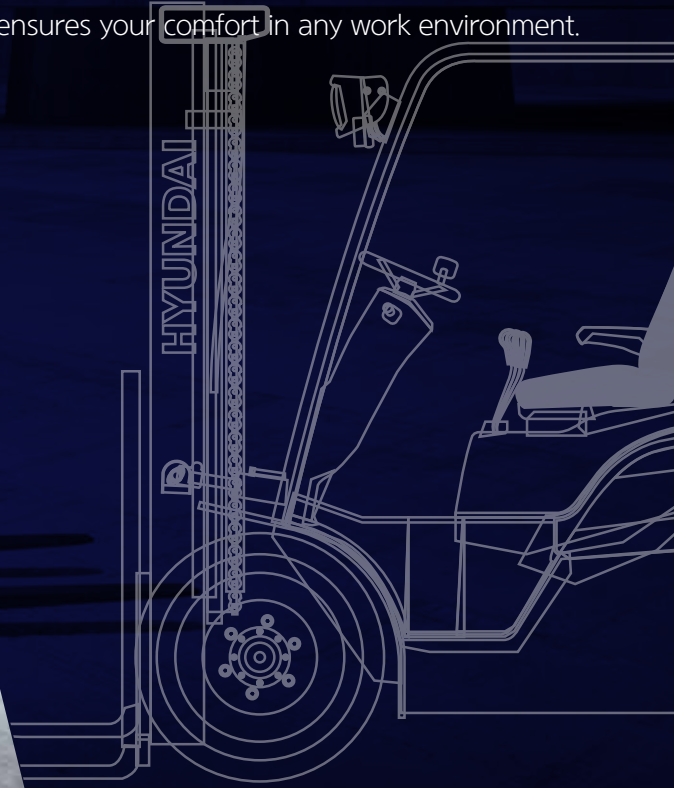
Easy & Comfort

Comfortable work space Intuitive monitoring

Ergonomic design for convenience of the operator
Wider visibility and intuitively configured monitoring system
We ensures your comfort in any work environment.



Some of the photos may include optional equipment.



Ergonomically designed operating space

The ergonomically designed operating space will further enhance the operator's work efficiency. The elevated seat with back rest and a handle with a reduced diameter enlarge the frontal view while reducing the operator's fatigue. The adoption of an A4-sized tray increases the convenience of document storage, while the 12V power socket (optional) facilitates the use of small electronic products.



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)



Automatic gear shift

When accelerating at 5 km/h or faster, the gear shifts automatically from first to second; and when decelerating at 3 km/h or slower, it shifts from second to first. So it enhances the operator's convenience.



Adjustable tilting handle

The steering column on the right can be easily adjusted by a lever.



Open footplate

A larger safety footplate with antislip provides convenience and safe access for the operator.

5.6-inch large screen LCD monitor

The TFT LCD color monitor with 5.6-inch large screen allow the operator to identify speed, driving direction, and operating hours at a glance and control the vehicle efficiently. Fault diagnosis is possible without any additional diagnostic apparatus due to the message delivery function.



Speed limit setting

As the vehicle's speed limit can be set up between 8 and 20km/h at 1km/h, operator can comply with the speed limit.

Machine inclination indication

The grade and slope sensors are built into the MCU and provide the machine's inclination in real time. A warning alarm is triggered if the KS STD limit is exceeded.

Load weight indicator (OPT)

The precise load sensor reduces the time taken to measure a carriage load, and a warning is given at the time of overload.

Main monitoring features

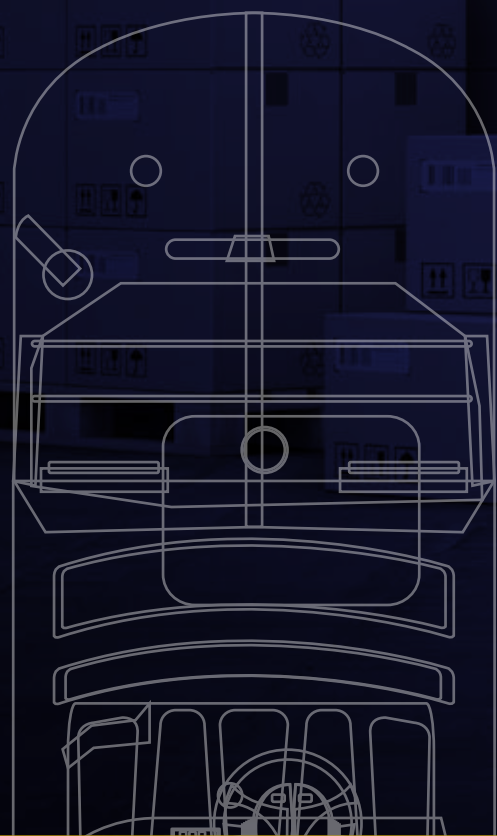
- Driving speed gauge
- Hour-meter
- Fuel gauge
- Engine temperature gauge
- Gear status indicator
- Other indicator lights / warning lights



Secure & Safety

Excellent visibility Reliable safety

Interior space and strengthened safety device are designed with safety as the priority, thus enable the operator to focus on work safely and conveniently.



EXCELLENT VISIBILITY

ADVANCED SAFETY

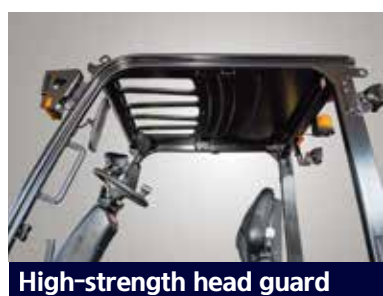
Some of the photos may include optional equipment.

Wide visibility for Safe Operation

The optimized lift cylinder array design provides a clear, wide field of vision for the operator. The adoption of a panorama mirror improves the rear side view, further enhancing safety.

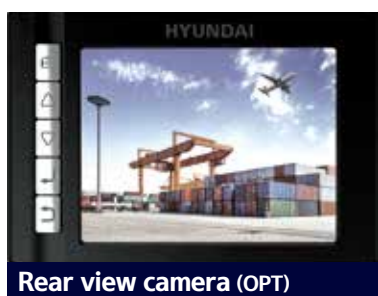


Some of the photos may include optional equipment.



High-strength head guard

The strong head guard meets the ANSI regulations and provides wide visibility by increasing the opening in the ceiling.



Rear view camera (OPT)

The rear-view camera and monitor inter-operated with the reverse gear ensure a safer rear-side work environment.



Panoramic mirror

The adoption of the panoramic mirror eliminates blind spots at the rear and ensures a wider rear view.

Various Safety System

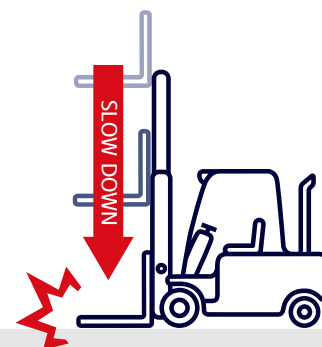
The adoption of a high-sensitivity sensor and advanced safety system eliminates the risk of safety accidents.

AUTO PARKING



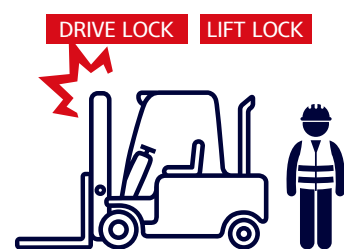
Auto parking brake (OPT)

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.



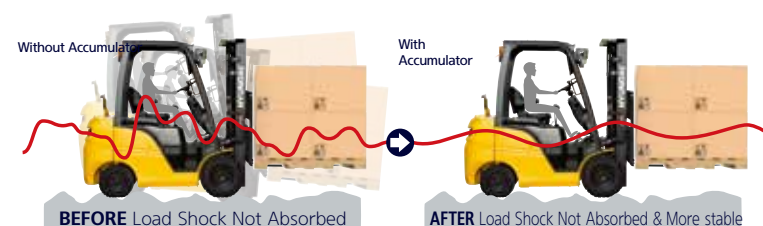
Fork safety features

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.



Mast Accumulator for load cushioning (OPT)

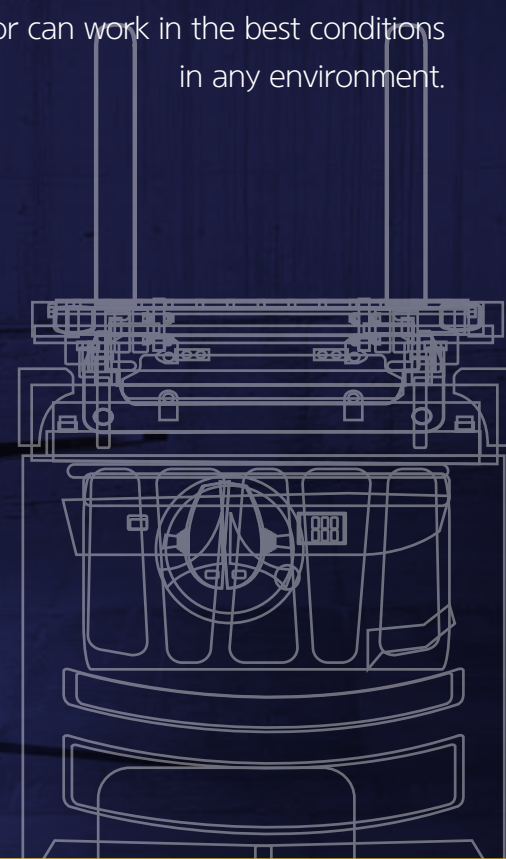
The accumulator installed at the side of mast prevents the lift cylinder from moving up and down when driving on an uneven road surface.



Maintenance & Convenience

Easy maintenance Various convenience devices

Ideal design for daily inspection and maintenance.
High-quality convenience devices for operator
Operator can work in the best conditions
in any environment.



BEST CONVENIENCE

EASY MAINTENANCE

Some of the photos may include optional equipment.

Large Engine Hood

An ideal arrangement of components ensures easy access and convenience for maintenance.
The enlarged air cleaner (8") has extended service time of engine and durability has been improved with the adoption of a bonnet gas spring (left/right).



Waterproof & Dustproof cover

Newly developed waterproof and dustproof fuse box and relay box for ease of maintenance.



Engine fault diagnosis

Details of engine fault diagnosed by the engine control unit (ECU) can be checked on the dashboard.



Maintenance management

This indicator automatically alerts the operator of the replacement cycle of key consumable items.

Various convenience devices

Various functions provide safety and convenience for operator.



Emergency switch (OPT)

A button-type switch enables to notify of emergency situations quickly.



Password starting system

The equipment can be managed safely and protected from theft by designating operator's right.



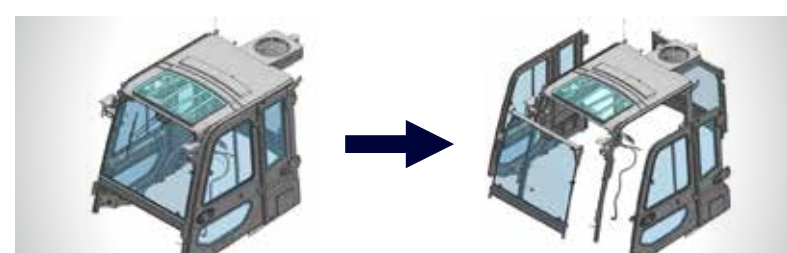
Wide cabin (OPT)

A wide cabin can be selected (60 mm wide and 125 mm long) for wider indoor space.



Fuel cover with key

The key on the fuel inlet door prevents people from stealing fuel.



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.

New 9 Series Mast Specifications

35/40/45D-9F
50DA-9F

35D-9F

Mast Type		Max-imum Fork Heigh	Overall Height (Lowered)		Free lift		Tilt Angle		Load Capacity (600mm LC) w/o side shift		Load Capacity (600mm LC) with side shift		Truck weight (unloaded)	
			Single wheel	Dual wheel	Back rest included	Back rest excluded	Fwd	Bwd						
			mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg
2-Stage Limited free lift	V270	2720	2085	2070	120	120	8	10	3500	3500	3500	3500	5864	6013
	※V300	3020	2235	2220	120	120	8	10	3500	3500	3500	3500	5894	6043
	V330	3320	2385	2370	120	120	8	10	3500	3500	3500	3500	5932	6081
	V350	3520	2535	2520	120	120	8	10	3500	3500	3500	3500	5955	6104
	V370	3720	2635	2620	120	120	8	10	3500	3500	3500	3500	5975	6124
	V400	4020	2845	2830	120	120	8	10	3500	3500	3400	3450	6017	6166
	V430	4320	2995	2980	120	120	8	10	3500	3500	3350	3400	6047	6196
	V450	4520	3095	3080	120	120	8	6	3500	3500	3300	3350	6130	6279
	V500	5020	3345	3330	120	120	8	6	3400	3500	3200	3250	6181	6330
2-Stage full free lift	VF280	2805	2135	2120	931	1258	8	8	3500	3500	3500	3500	5922	6073
	VF300	3005	2235	2220	1031	1358	8	8	3500	3500	3500	3500	5948	6099
	VF315	3155	2325	2310	1121	1448	8	8	3500	3500	3500	3500	5967	6119
3-Stage full free lift	TF/TS370	3730	2035	2020	822	1149	8	8	3500	3500	3350	3450	6108	6257
	TF/TS400	4030	2135	2120	922	1249	8	8	3500	3500	3300	3400	6138	6287
	TF/TS430	4330	2235	2220	1022	1349	8	8	3500	3500	3250	3350	6196	6318
	TF/TS450	4510	2295	2280	1082	1409	8	8	3500	3500	3200	3300	6188	6337
	TF/TS470	4720	2385	2370	1172	1499	8	8	3400	3500	3150	3250	6224	6373
	TF/TS500	5020	2485	2470	1272	1599	8	6	3300	3400	3100	3200	6247	6396
	TF/TS550	5520	2665	2650	1452	1779	8	6	3200	3300	2850	3100	6309	6458
	TF/TS600	6030	2845	2830	1632	1959	8	6	3100	3200	2450	3000	6347	6523
	TF/TS650	6540	3025	3010	1812	2139	8	6	3000	3000	2350	2900	6461	6610

※ : Standard

40D-9F

Mast Type		Max-imum Fork Heigh	Overall Height (Lowered)		Free lift		Tilt Angle		Load Capacity (600mm LC) w/o side shift		Load Capacity (600mm LC) with side shift		Truck weight (unloaded)	
			Single wheel	Dual wheel	Back rest included	Back rest excluded	Fwd	Bwd						
			mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg
2-Stage Limited free lift	V270	2720	2085	2070	120	120	8	10	4000	4000	4000	4000	6292	6408
	※V300	3020	2235	2220	120	120	8	10	4000	4000	4000	4000	6322	6438
	V330	3320	2385	2370	120	120	8	10	4000	4000	4000	4000	6360	6476
	V350	3520	2535	2520	120	120	8	10	4000	4000	4000	4000	6383	6499
	V370	3720	2635	2620	120	120	8	10	4000	4000	3950	3950	6403	6519
	V400	4020	2845	2830	120	120	8	10	4000	4000	3900	3900	6446	6562
	V430	4320	2995	2980	120	120	8	10	4000	4000	3850	3850	6475	6591
	V450	4520	3095	3080	120	120	8	6	4000	4000	3800	3800	6558	6674
	V500	5020	3345	3330	120	120	8	6	3900	4000	3700	3700	6609	6725
2-Stage full free lift	VF280	2805	2135	2120	916	1243	8	8	4000	4000	4000	4000	6350	6446
	VF300	3005	2235	2220	1016	1343	8	8	4000	4000	4000	4000	6376	6472
	VF315	3155	2325	2310	1106	1433	8	8	4000	4000	4000	4000	6395	6491
3-Stage full free lift	TF/TS370	3730	2035	2020	807	1134	8	8	4000	4000	3900	3950	6536	6595
	TF/TS400	4030	2135	2120	907	1234	8	8	4000	4000	3850	3850	6566	6625
	TF/TS430	4330	2235	2220	1007	1334	8	8	4000	4000	3800	3800	6597	6656
	TF/TS450	4510	2295	2280	1067	1394	8	8	4000	4000	3800	3800	6616	6675
	TF/TS470	4720	2385	2370	1157	1484	8	8	4000	4000	3700	3750	6653	6711
	TF/TS500	5020	2485	2470	1257	1584	8	6	3900	3900	3600	3650	6676	6734
	TF/TS550	5520	2665	2650	1437	1764	8	6	3700	3800	3350	3500	6737	6796
	TF/TS600	6030	2845	2830	1617	1944	8	6	3600	3600	2950	3400	6803	6861
	TF/TS650	6540	3025	3010	1797	2124	8	6	3500	3500	2850	3300	6889	6948

※ : Standard

New 9 Series Mast Specifications

45D-9F

Mast Type		Max-imum Fork Heigh	Overall Height (Lowered)		Free lift		Tilt Angle		Load Capacity (600mm LC) w/o side shift		Load Capacity (600mm LC) with side shift		Truck weight (unloaded)	
			Single wheel	Dual wheel	Back rest included	Back rest excluded	Fwd	Bwd						
			mm	mm	mm	mm	deg	deg	kg	kg	kg	kg	kg	kg
2-Stage Limited free lift	V270	2720	2085	2070	120	120	8	10	4500	4500	4500	4500	6702	6864
	※V300	3020	2235	2220	120	120	8	10	4500	4500	4500	4500	6732	6894
	V330	3320	2385	2370	120	120	8	10	4500	4500	4500	4500	6770	6932
	V350	3520	2535	2520	120	120	8	10	4500	4500	4500	4500	6793	6955
	V370	3720	2635	2620	120	120	8	10	4500	4500	4400	4400	6813	6975
	V400	4020	2845	2830	120	120	8	10	4500	4500	4350	4350	6855	7017
	V430	4320	2945	2980	120	120	8	10	4500	4500	4300	4300	6885	7047
	V450	4520	3095	3080	120	120	8	6	4500	4500	4200	4200	6968	7130
	V500	5020	3345	3330	120	120	8	6	4400	4400	4050	4050	7019	7181
2-Stage full free lift	VF280	2805	2135	2120	853	1442	8	8	4500	4500	4500	4500	6739	6875
	VF300	3005	2235	2220	953	1542	8	8	4500	4500	4500	4500	6765	6901
	VF315	3155	2325	2310	1043	1602	8	8	4500	4500	4500	4500	6784	6920
3-Stage full free lift	TF/TS370	3730	2035	2020	796	1114	8	8	4500	4500	4350	4350	6931	7067
	TF/TS400	4030	2135	2120	896	1214	8	8	4500	4500	4300	4300	6961	7097
	TF/TS430	4330	2235	2220	996	1314	8	8	4500	4500	4200	4200	6992	7128
	TF/TS450	4510	2295	2280	1056	1374	8	8	4500	4500	4150	4150	7011	7147
	TF/TS470	4720	2385	2370	1145	1484	8	8	4400	4400	4100	4100	7047	7183
	TF/TS500	5020	2485	2470	1246	1564	8	6	4300	4300	4000	4000	7070	7206
	TF/TS550	5520	2665	2650	1426	1744	8	6	4200	4200	3850	3850	7132	7268
	TF/TS600	6030	2845	2830	1606	1924	8	6	4000	4000	3250	3750	7197	7333
	TF/TS650	6540	3025	3010	1786	2104	8	6	3900	3900	3150	3650	7284	7420

※ : Standard

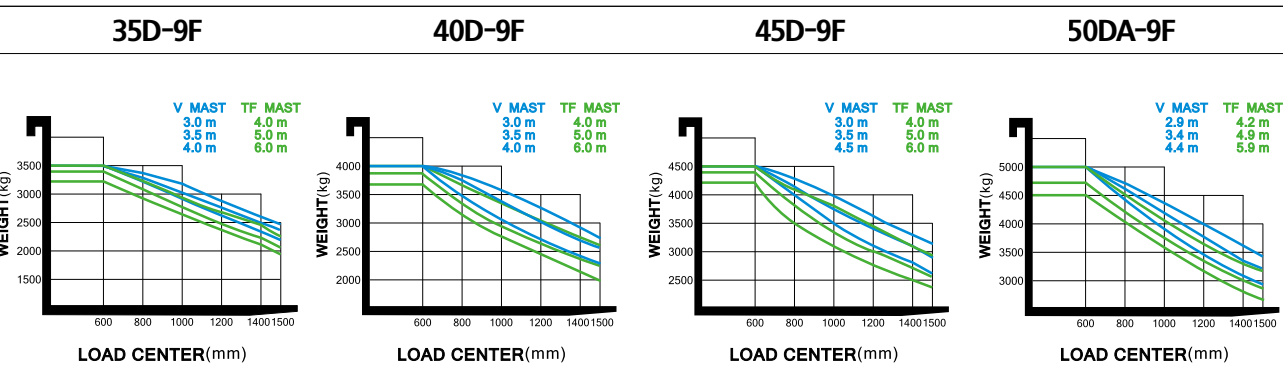
50DA-9F

Mast Type		Max-imum Fork Heigh	Overall Height (Lowered)		Free lift		Tilt Angle		Load Capacity (600mm LC) w/o side shift		Load Capacity (600mm LC) with side shift		Truck weight (unloaded)	
					Back rest included	Back rest excluded	Fwd	Bwd						
			Single wheel	Dual wheel					Single wheel	Dual wheel	Single wheel	Dual wheel	Single wheel	Dual wheel
			mm	mm	mm	mm	mm	mm	deg	deg	kg	kg	kg	kg
2-Stage Limited free lift	V260	2630	2085	2070	120	120	8	10	5000	5000	5000	5000	7152	7273
	※V290	2930	2235	2220	120	120	8	10	5000	5000	5000	5000	7177	7298
	V320	3230	2385	2370	120	120	8	10	5000	5000	5000	5000	7202	7323
	V340	3430	2535	2520	120	120	8	10	5000	5000	4950	4950	7227	7348
	V360	3630	2635	2620	120	120	8	10	5000	5000	4900	4900	7243	7364
	V390	3930	2845	2830	120	120	8	10	5000	5000	4800	4800	7279	7400
	V440	4430	3095	3080	120	120	8	6	4900	5000	4650	4650	7382	7503
	V490	4930	3345	3330	120	120	8	6	4800	4900	4500	4500	7424	7545
2-Stage full free lift	VF270	2702	2135	2120	905	1223	8	8	5000	5000	4700	4750	7117	7238
	VF290	2902	2235	2220	1005	1323	8	8	5000	5000	4650	4700	7143	7264
	VF305	3052	2325	2310	1095	1413	8	8	5000	5000	4550	4600	7162	7283
3-Stage full free lift	TF/TS360	3672	2035	2020	807	1074	8	8	5000	5000	4700	4800	7348	7469
	TF/TS390	3972	2135	2120	907	1174	8	8	5000	5000	4650	4700	7374	7495
	TF/TS420	4272	2235	2220	1007	1274	8	8	4900	5000	4550	4600	7399	7520
	TF/TS440	4452	2295	2280	1067	1334	8	8	4800	5000	4500	4550	7415	7536
	TF/TS460	4662	2385	2370	1157	1424	8	8	4700	4900	4450	4500	7439	7560
	TF/TS490	4962	2485	2470	1257	1524	8	6	4600	4800	4350	4450	7464	7585
	TF/TS540	5462	2665	2650	1437	1704	8	6	4500	4700	4250	4300	7516	7637
	TF/TS590	5972	2845	2830	1617	1884	8	6	4400	4600	4100	4200	7556	7677
	TF/TS640	6482	3025	3010	1797	2064	8	6	4300	4500	4000	4100	7642	7763

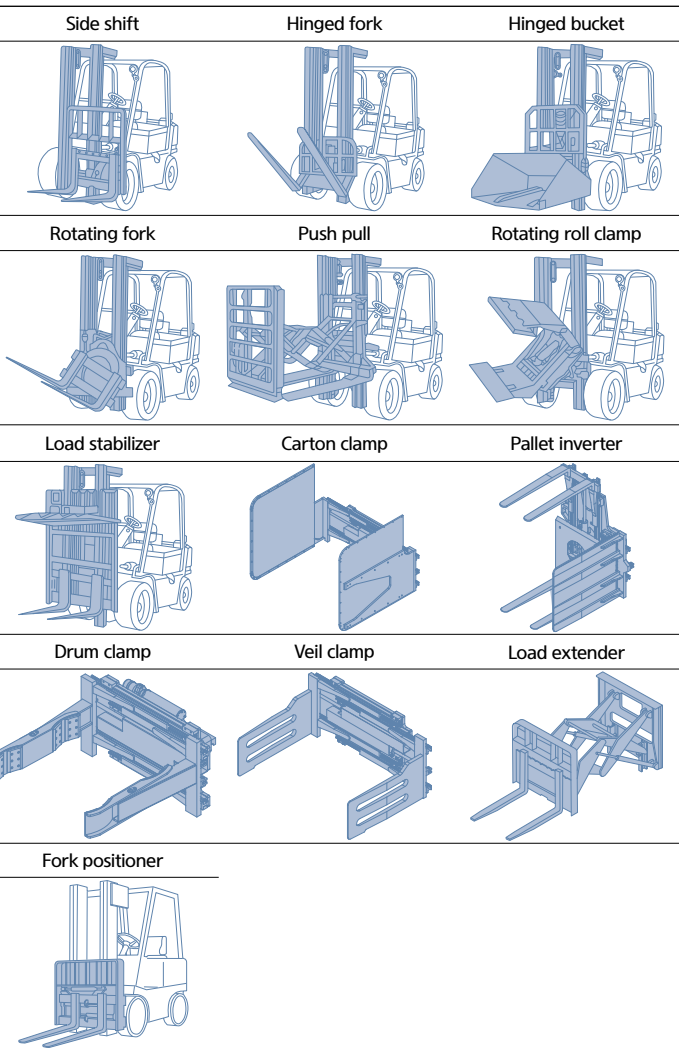
New 9 Series

35/40/45D-9F
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Load Capacity



Attachments



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

Optional Items

- Fork(mm)
35D-9F : 1070 (Std), 1220, 1370, 1520, 1670, 1820, 1970, 2120, 2400
40/45D-9F : 1070, 1220 (Std), 1370, 1520, 1670, 1820, 1970, 2200, 2400
50DA-9F : 1200 (Std), 1350, 1500, 1800, 2000, 2400
 - Tire : pneumatic pressure (standard feature)
(Solid, Non-marking / Front wheel single or Double tire)
 - M.C.V : 3-spool, 4-spool (standard feature)
 - Load weight indicator
 - Rear view camera
- Cabin
 - Seat : Head Rest , Hot wire / Under cover
 - Air-conditioner / Heater-integrated heater
 - Pneumatic temperature / Pressure monitoring system
 - Master switch
 - Under cover
 - Rear Horn
 - LED Work Lamp

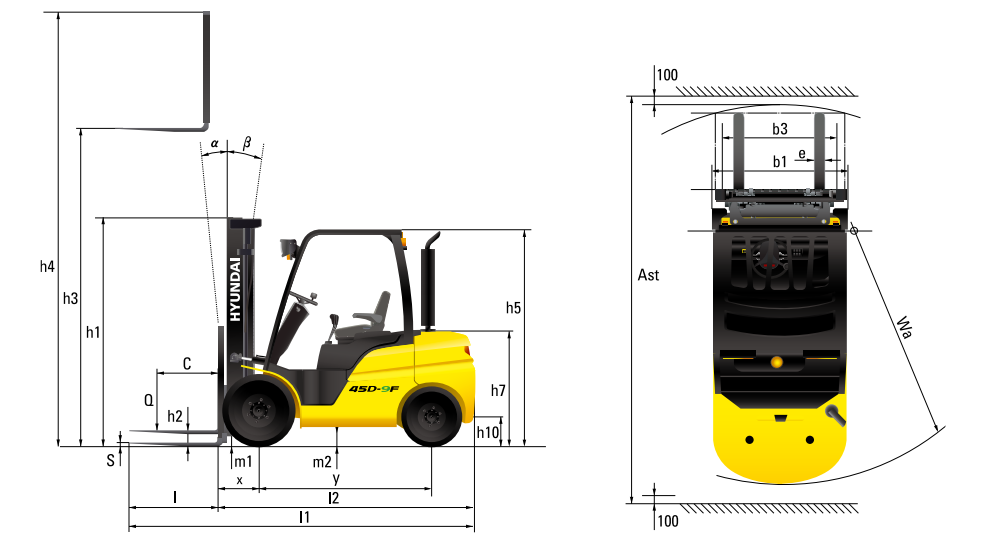
New 9 Series

Specification

Distinguishing mark						
1.1	Manufacturer		Hyundai			
1.2	Manufacturer's type designation		Hyundai	Hyundai	Hyundai	Hyundai
1.3	Drive		35D-9F	40D-9F	45D-9F	50DA-9F
1.4	Type of operation		Diesel	Diesel	Diesel	Diesel
1.5	Load capacity	kg	Seated	Seated	Seated	Seated
1.6	Load center distance	c mm	3,500	4,000	4,500	5,000
1.8	Load center distance	x mm	600	600	600	600
1.9	Wheelbase	y mm	2,000	2,000	2,000	2,000
Weight						
2.1	Service weight	kg	5,894	6,438	6,894	7,298
2.2	Axle loading, loaded front/rear	kg	8,202 / 1,192	9,109 / 1,329	9,869 / 1,525	10,686 / 1,612
2.3	Axle loading, unloaded front/rear	kg	2,672 / 3,222	2,789 / 3,649	2,759 / 4,135	2,786 / 4,512
Tires, chassis						
3.1	Tires : pneumatic, solid rubber, non marking		P	P	P	P
3.2	Tire size, front		8.25-15-14PR	750-16-12PR	750-16-12PR	750-16-12PR
3.3	Tire size, rear		700-12-12PR	700-12-14 PR	700-12-14PR	700-12-14PR
3.5	Wheels, number front / rear (x = driven wheels)		2 x 2	4 x 2	4 x 2	4 x 2
3.6	Tread, front	mm	1,132	1,282	1,282	1,282
3.7	Tread, rear	mm	1,140	1,140	1,140	1,140
Dimension						
4.1	Tilt of mast/fork carriage forward/backward	Degree	8 / 10	8 / 10	8 / 10	8 / 10
4.2	Height, mast lowered	h1 (mm)	2,235	2,220	2,220	2,220
4.3	Free lift	h2 (mm)	120	120	120	120
4.4	Lift height	h3 (mm)	3,020	3,020	3,020	2,930
4.5	Height, mast extended	h4 (mm)	4,234	4,234	4,234	4,147
4.7	Height of overhead guard (cabin)	h5 (mm)	2,220	2,210	2,210	2,210
4.8	Seat height / stand height rel. to sip	h7 (mm)	1,070	1,070	1,070	1,070
4.12	Coupling height	h10 (mm)	364	364	364	364
4.19	Overall length	l1 (mm)	4,180	4,235	4,455	4,500
4.20	Length to face of forks	l2 (mm)	3,110	3,165	3,235	3,300
4.21	Overall width	b1 (mm)	1,370	1,740	1,740	1,740
4.22	Fork dimensions	l x e x s (mm)	1,070 x 122 x 50	1,070 x 150 x 50	1,220 x 150 x 50	1200 x 150 x 60
4.23	Fork carriage ISO 2328		III / A	III / A	IV / A	IV / A
4.24	Fork-carriage width	b3 (mm)	1,300	1,600	1,600	1,600
4.31	Ground clearance, below mast, loaded	m1 (mm)	170	155	155	155
4.32	Ground clearance, center of wheelbase	m2 (mm)	215	205	205	200
4.33	Minimum intersecting angle for pallets	Ast (mm)	4,629	4,676	4,726	4,771
4.34	Aisle width for pallets	Ast (mm)	4,829	4,876	4,926	4,971
4.35	Turning radius	Wa (mm)	2,868	2,915	2,965	3,010
4.36	Smallest pivot point distance		1,009	1,009	1,009	1,009

Performance data						
5.1	Travel speed, unloaded	km/h	26.6	25.7	25.6	25.6
5.2	Lift speed, loaded / unloaded	mm/s	500 / 540	480 / 540	480 / 540	410 / 460
5.3	Lowering speed, loaded / unloaded	mm/s	500 / 500	500 / 500	500 / 500	500 / 500
5.5	Max. drawbar pull, loaded / unloaded	kg	3,767	3,798	3,800	3,807
5.7	Max. gradeability, loaded / unloaded	%	38.6	34.6	31.4	28.9
5.9	Acceleration time, loaded / unloaded (10m)	sec	-	-	-	-
5.10	Service brake		Hydraulic type	Hydraulic type	Hydraulic type	Hydraulic type
Combustion-engine						
6.1	Engine manufacturer / type		KUBOTA V3800 - TIER 4			
6.2	Engine power	ps / rpm	75.3 / 2,200			
6.3	Maximum torque	kgf.m / rpm	31.6 / 1,500			
6.4	No. of cylinders / displacement	EA / cc	4 / 3,769			
6.5	Capacity of Fuel tank	ℓ	132			
Addition data						
8.1	Type of drive control		Power shift 2/2	Power shift 2/2	Power shift 2/2	Power shift 2/2
8.2	Operating pressure, system / attachments	kgf/cm ²	206 / 147	206 / 147	206 / 147	206 / 147
8.3	Attachment oil capacity	ℓ / min	76	76	76	76
8.5	Trailer coupling, type din		PIN			

Dimension



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