

# 15/18/20D-9S

Diesel Counterbalance Trucks

MOVING YOU FURTHER

HYUNDAI CONSTRUCTION EQUIPMENT



 **HYUNDAI**  
CONSTRUCTION EQUIPMENT

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■ Some of the photos may include optional equipment.

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# 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 room
- Switch type parking brake
- 5.6 inch LCD color monitor
- Truck inclination warning system
- Easy serviceability
- Password starting system
- OPS System for safe operation (Optional)
- Auto fork leveling system (Optional)
- Load weight indicator (Optional)



\*Some of the photos may include optional equipment.

# High Efficiency & Optimal Performance



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

**15/18/20D-9S**

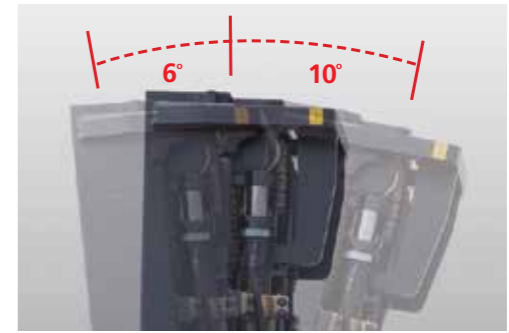


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### Clutch Protection System

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



### Mast Tilt Angle

Utilizing the standard mast tilting angle of 6 degrees forward and 10 degrees backward, the operator can safely and rapidly perform loading and unloading jobs.



### 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.



## KUBOTA V2203 Engine 30.8kW/2,400rpm

### High Power Engine - KUBOTA V2203

The Kubota V2203 engine ensures an incomparable performance and durability; with its market approved quality, this engine gives an additional value to the machine. With its power of 30.8kW, it will fit for any work, even with special attachments that require extensive power.



### Travel Speed (MAX)

Model	km / h
15D-9S	19.4
18D-9S	19.4
20D-9S	19.4

### Gradeability (MAX)

Model	%
15D-9S	32.9
18D-9S	29.5
20D-9S	27.4

### Faster Travel Speed & Gradeability

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

# Best Convenience & Optimized Ergonomics



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

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\*Some of the photos may include optional equipment.

## Spacious Operator Compartment

The new design provides wide visibility and spacious environment, ensuring all day comfort 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.



## 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

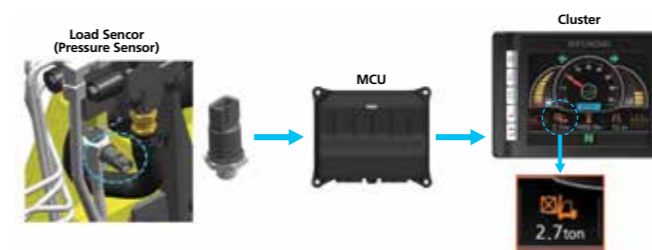
To achieve a comfortable drive position, the angle of the steering column can easily be adjusted.



## Comfortable Grammer Seat

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

- \*ELR (Energy Locking Retractor) Type Seat Belt
- \*Heating and Head-rest (OPT)
- \*Movable Armrests



## Load Indicator (Optional)

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.



## 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



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

**15/18/20D-9S**



## 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 ISO6055 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.



## Low Step Height

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



\*Some of the photos may include optional equipment.

## 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



## 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

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

**15/18/20D-9S**



## Large Engine Hood

Highly accessible engine compartment assures fast and efficient maintenance.

\*Some of the photos may include optional equipment.



**Parking Brake Switch**  
With auto parking function when the operator is not in the seat



**Emergency Switch (Optional)**

\*Some of the photos may include optional equipment.



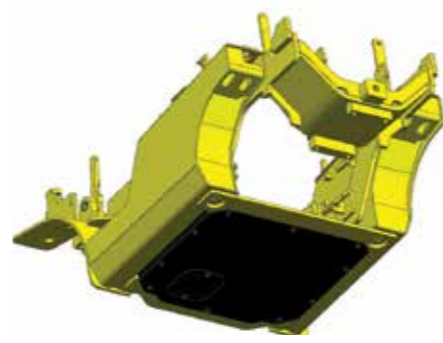
## Waterproof & Dustproof Cover

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



## Air cleaner

The air cleaner(6") is readily accessible for cleaning or replacement.



## Under Cover (Optional)

The Under cover protect the engine and components from dusts caused by ground. It helps to lengthen Components life.



**Stylish and convenient switch**



**Password Starting System (Anti-theft system)**

# New 9 Series

**15/18/20D-9S**

## Mast Specification (15D-9S)

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)		Fwd	Bwd	24 in LC	500mm LC	24 in LC	500mm LC	lb	kg	
	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	
2-STAGE LIMITED FREE LIFT	V250	99.4	2,525	69.1	1,755	1.4	35	1.4	35	1.4	35	6	10	3,000	1,500	2,900	1,425	6,202	2,819
	V270	107.3	2,725	73.0	1,855							6	10	3,000	1,500	2,900	1,425	6,230	2,832
	V300	119.1	3,025	78.9	2,005							6	10	3,000	1,500	2,900	1,425	6,274	2,852
	V330	130.9	3,325	84.8	2,155							6	10	3,000	1,500	2,900	1,425	6,316	2,871
	V350	138.8	3,525	88.8	2,255							6	10	3,000	1,500	2,900	1,425	6,347	2,885
	V370	146.7	3,725	92.7	2,355							6	10	3,000	1,500	290	1,425	6,376	2,898
	V400	158.5	4,025	98.6	2,505							6	10	3,000	1,500	2,900	1,425	6,428	2,922
	V450	178.1	4,525	112.4	2,855							6	6	2,900	1,425	2,770	1,350	6,600	3,000
	V500	197.8	5,025	122.2	3,105							6	6	2,750	1,350	2,640	1,275	6,677	3,035
	V550	217.5	5,525	132.1	3,355							6	5	2,150	1,050	2,040	1,000	6,743	3,065
2-STAGE FULL FREE LIFT	VF300	119.1	3,025	78.9	2,005	39.6	1,007	58.3	1,480	52.8	1,340	6	6	3,000	1,500	2,900	1,425	6,376	2,898
	VF330	130.9	3,325	84.8	2,155	45.6	1,157	64.2	1,630	58.7	1,490	6	6	3,000	1,500	2,900	1,425	6,450	2,932
	VF350	138.8	3,525	88.8	2,255	49.5	1,257	68.1	1,730	62.6	1,590	6	6	3,000	1,500	2,900	1,425	6,481	2,946
3-STAGE FULL FREE LIFT	TF370	147.0	3,735	71.1	1,805	31.8	807	48.6	1,235	43.1	1,095	6	6	3,000	1,500	2,900	1,425	6,514	2,961
	TF400	158.9	4,035	75.0	1,905	35.7	907	52.6	1,335	47.0	1,195	6	6	2,990	1,475	2,880	1,400	6,556	2,980
	TF430	170.7	4,335	78.9	2,005	39.6	1,007	56.5	1,435	51.0	1,295	6	6	2,900	1,425	2,790	1,350	6,598	2,999
	TF450	178.5	4,535	82.9	2,105	43.6	1,107	66.3	1,685	60.8	1,545	6	6	2,830	1,400	2,720	1,325	6,644	3,020
	TF470	186.4	4,735	84.8	2,155	45.6	1,157	62.4	1,585	56.9	1,445	6	6	2,790	1,375	2,600	1,300	6,668	3,031
	TF500	198.2	5,035	88.8	2,255	49.5	1,257	66.3	1,685	60.8	1,545	6	6	2,750	1,350	2,610	1,275	6,708	3,049
	TF550	217.9	5,535	96.7	2,455	57.4	1,457	76.2	1,935	70.7	1,795	6	5	2,310	1,125	2,220	1,075	6,798	3,090
	TF600	237.6	6,035	104.5	2,655	65.2	1,657	84.1	2,135	78.5	1,995	6	5	1,650	800	1,580	750	6,897	3,135
	TF650	257.3	6,535	112.4	2,855	73.1	1,857	91.1	2,315	85.6	2,175	3	3	1,250	600	1,180	550	6,998	3,181
	TF700	277.0	7,035	120.3	3,055	81.0	2,057	99.6	2,529	94.1	2,389	3	3	830	400	770	350	7,102	3,228
	TS370	147.0	3,735	71.1	1,805	31.8	807	44.8	1,137	38.1	967	6	6	3,000	1,500	2,900	1,425	6,514	2,961
	TS400	158.9	4,035	75.0	1,905	35.7	907	48.7	1,237	42.0	1,067	6	6	2,990	1,475	2,880	1,400	6,556	2,980
	TS430	170.7	4,335	78.9	2,005	39.6	1,007	52.6	1,337	45.9	1,167	6	6	2,900	1,425	2,790	1,350	6,598	2,999
	TS450	178.5	4,535	82.9	2,105	43.6	1,107	62.5	1,587	55.8	1,417	6	6	2,830	1,400	2,720	1,325	6,644	3,020
	TS470	186.4	4,735	84.8	2,155	45.6	1,157	58.5	1,487	51.9	1,317	6	6	2,790	1,375	2,600	1,300	6,668	3,031
	TS500	198.2	5,035	88.8	2,255	49.5	1,257	62.5	1,587	55.8	1,417	6	6	2,750	1,350	2,610	1,275	6,708	3,049
	TS550	217.9	5,535	96.7	2,455	57.4	1,457	72.3	1,837	65.6	1,667	6	5	2,310	1,125	2,220	1,075	6,798	3,090
TS600	237.6	6,035	104.5	2,655	65.2	1,657	80.2	2,037	73.5	1,867	6	5	1,650	800	1,580	750	6,897	3,135	
TS650	257.3	6,535	112.4	2,855	73.1	1,857	87.3	2,217	80.6	2,047	3	3	1,250	600	1,180	550	6,998	3,181	
TS700	277.0	7,035	120.3	3,055	81.0	2,057	94.4	2,397	87.7	2,227	3	3	830	400	770	350	7,102	3,228	

## Mast Specification (18D-9S)

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)		Fwd	Bwd	24 in LC	500mm LC	24 in LC	500mm LC	lb	kg	
	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	
2-STAGE LIMITED FREE LIFT	V250	99.4	2,525	69.1	1,755	1.4	35	1.4	35	1.4	35	6	10	3,500	1,800	3,390	1,675	6,580	2,991
	V270	107.3	2,725	73.0	1,855							6	10	3,500	1,800	3,390	1,675	6,607	3,003
	V300	119.1	3,025	78.9	2,005							6	10	3,500	1,800	3,390	1,675	6,651	3,023
	V330	130.9	3,325	84.8	2,155							6	10	3,500	1,800	3,390	1,675	6,695	3,043
	V350	138.8	3,525	88.8	2,255							6	10	3,500	1,770	3,390	1,675	6,723	3,056
	V370	146.7	3,725	92.7	2,355							6	10	3,500	1,750	3,390	1,675	6,752	3,069
	V400	158.5	4,025	98.6	2,505							6	10	3,450	1,700	3,320	1,625	6,805	3,093
	V450	178.1	4,525	112.4	2,855							6	6	3,300	1,625	3,170	1,550	6,976	3,171
	V500	197.8	5,025	122.2	3,105							6	6	2,860	1,400	2,750	1,325	7,053	3,206
	V550	217.5	5,525	132.1	3,355							6	5	2,060	1,050	1,960	1,000	7,121	3,237
2-STAGE FULL FREE LIFT	VF300	119.1	3,025	78.9	2,005	39.6	1,007	58.3	1,480	52.8	1,340	6	6	3,500	1,800	3,390	1,675	6,752	3,069
	VF330	130.9	3,325	84.8	2,155	45.6	1,157	64.2	1,630	58.7	1,490	6	6	3,500	1,750	3,390	1,675	6,827	3,103
	VF350	138.8	3,525	88.8	2,255	49.5	1,257	68.1	1,730	62.6	1,590	6	6	3,500	1,750	3,390	1,675	6,857	3,117
3-STAGE FULL FREE LIFT	TF370	147.0	3,735	71.1	1,805	31.8	807	48.6	1,235	43.1	1,095	6	6	3,500	1,725	3,370	1,650	6,890	3,132
	TF400	158.9	4,035	75.0	1,905	35.7	907	52.6	1,335	47.0	1,195	6	6	3,410	1,675	3,280	1,600	6,932	3,151
	TF430	170.7	4,335	78.9	2,005	39.6	1,007	56.5	1,435	51.0	1,295	6	6	3,320	1,625	3,190	1,500	6,974	3,170
	TF450	178.5	4,535	82.9	2,105	43.6	1,107	66.3	1,685	60.8	1,545	6	6	3,260	1,600	3,120	1,525	7,022	3,192
	TF470	186.4	4,735	84.8	2,155	45.6	1,157	62.4	1,585	56.9	1,445	6	6	3,060	1,500	2,950	1,425	7,044	3,202
	TF500	198.2	5,035	88.8	2,255	49.5	1,257	66.3	1,685	60.8	1,545	6	6	2,970	1,450	2,860	1,375	7,084	3,220
	TF550	217.9	5,535	96.7	2,455	57.4	1,457	76.2	1,935	70.7	1,795	6	5	2,380	1,150	2,310	1,100	7,174	3,261
	TF600	237.6	6,035	104.5	2,655	65.2	1,657	84.1	2,135	78.5	1,995	6	5	1,650	800	1,580	750	7,273	3,306
	TF650	257.3	6,535	112.4	2,855	73.1	1,857	91.1	2,315	85.6	2,175	3	3	1,250	600	1,190	550	7,374	3,352
	TF700	277.0	7,035	120.3	3,055	81.0	2,057	99.6	2,529	94.1	2,389	3	3	950	450	880	400	7,478	3,399
	TS370	147.0	3,735	71.1	1,805	31.8	807	44.8	1,137	38.1	967	6	6	3,500	1,725	3,370	1,650	6,890	3,132
	TS400	158.9	4,035	75.0	1,905	35.7	907	48.7	1,237	42.0	1,067	6	6	3,410	1,675	3,280	1,600	6,932	3,151
	TS430	170.7	4,335	78.9	2,005	39.6	1,007	52.6	1,337	45.9	1,167	6	6	3,320	1,625	3,190	1,500	6,974	3,170
	TS450	178.5	4,535	82.9	2,105	43.6	1,107	62.5	1,587	55.8	1,417	6	6	3,260	1,600	3,120	1,525	7,022	3,192
	TS470	186.4	4,735	84.8	2,155	45.6	1,157	58.5	1,487	51.9	1,317	6	6	3,060	1,500	2,950	1,425	7,044	3,202
	TS500	198.2																	

# New 9 Series

15/18/20D-9S

## Mast Specification (20D-9S)

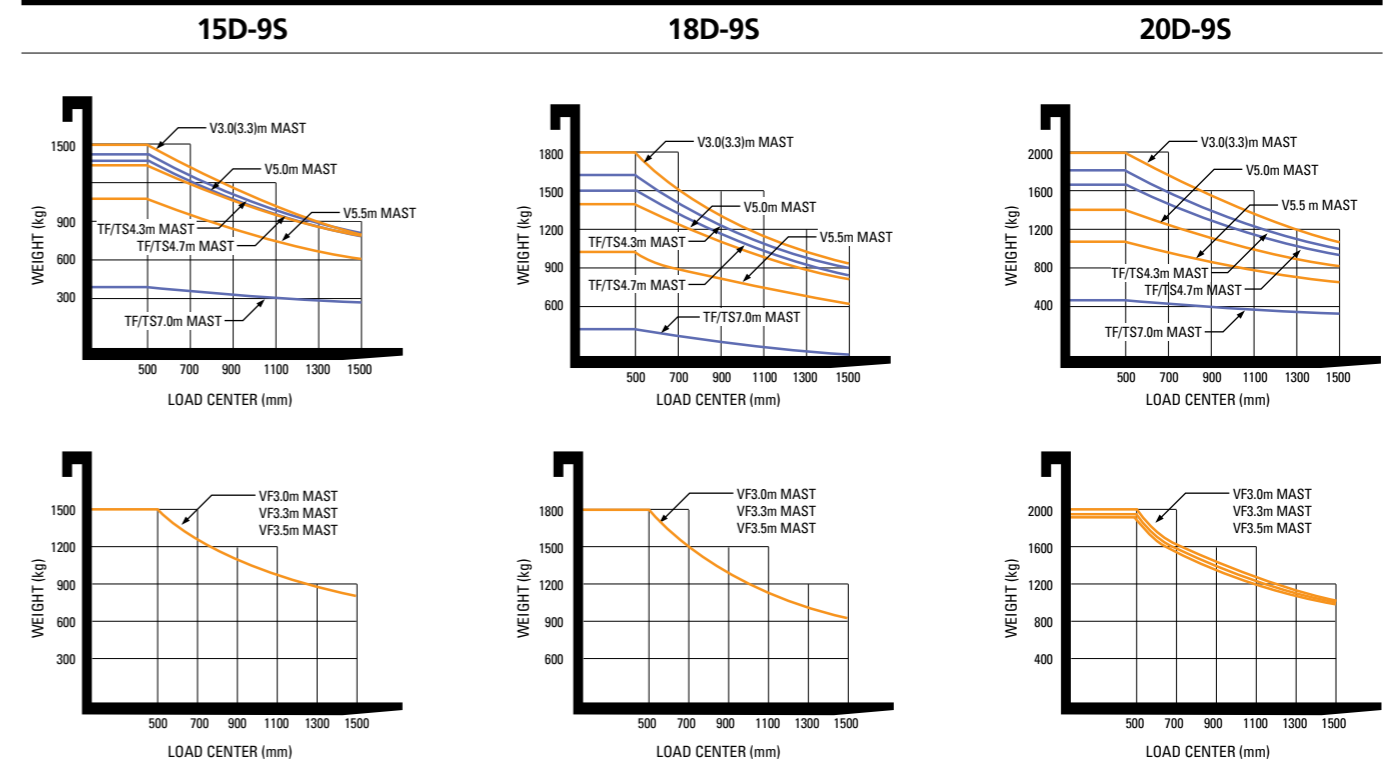
Mast Type	Maximum Fork Height		Overall Height (Lowered)		Free lift height						Tilt Angle		Load capacity w/o side shift		Load capacity w/side shift		TRUCK WEIGHT (UNLOADED)		
					With Load Backrest		Without Load Backrest		Without Load Backrest (3/4-SPOOL)		Fwd	Bwd	24 in LC	500mm LC	24 in LC	500mm LC	lb	kg	
	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	
2-STAGE LIMITED FREE LIFT	V250	99.6	2,530	69.1	1,755	1.6	40	1.6	40	1.6	40	6	10	4,000	2,000	3,870	1,900	6,934	3,152
	V270	107.5	2,730	73.0	1,855							6	10	4,000	2,000	3,870	1,900	6,963	3,165
	V300	119.3	3,030	78.9	2,005							6	10	4,000	2,000	3,870	1,900	7,007	3,185
	V330	131.1	3,330	84.8	2,155							6	10	4,000	2,000	3,870	1,900	7,049	3,204
	V350	139.0	3,530	88.8	2,255							6	10	4,000	2,000	3,870	1,900	7,080	3,218
	V370	146.9	3,730	92.7	2,355							6	10	3,960	1,950	3,810	1,875	7,108	3,231
	V400	158.7	4,030	98.6	2,505							6	10	3,370	1,650	3,230	1,575	7,161	3,255
	V450	178.3	4,530	112.4	2,855							6	6	3,320	1,625	3,190	1,550	7,333	3,333
	V500	198.0	5,030	122.2	3,105							6	6	2,880	1,400	2,750	1,325	7,410	3,368
	V550	217.7	5,530	132.1	3,355							6	5	2,180	1,050	2,090	1,000	7,478	3,399
2-STAGE FULL FREE LIFT	VF300	119.3	3,030	78.9	2,005	39.8	1,012	58.5	1,485	53.0	1,345	6	6	4,000	2,000	3,870	1,900	7,108	3,231
	VF330	131.1	3,330	84.8	2,155	45.7	1,162	64.4	1,635	58.9	1,495	6	6	4,000	1,975	3,830	1,875	7,183	3,265
	VF350	139.0	3,530	88.8	2,255	49.7	1,262	68.3	1,735	62.8	1,595	6	6	3,960	1,950	3,780	1,850	7,214	3,279
	TF370	147.2	3,740	71.1	1,805	32.0	812	48.8	1,240	43.3	1,100	6	6	3,850	1,900	3,720	1,825	7,247	3,294
	TF400	159.1	4,040	75.0	1,905	35.9	912	52.8	1,340	47.2	1,200	6	6	3,760	1,850	3,630	1,775	7,289	3,313
	TF430	170.9	4,340	78.9	2,005	39.8	1,012	56.7	1,440	51.2	1,300	6	6	3,670	1,800	3,540	1,725	7,330	3,332
	TF450	178.7	4,540	82.9	2,105	43.8	1,112	62.6	1,590	57.1	1,450	6	6	3,590	1,750	3,450	1,675	7,377	3,353
	TF470	186.6	4,740	84.8	2,155	45.7	1,162	62.6	1,590	57.1	1,450	6	6	3,370	1,650	3,260	1,575	7,401	3,364
	TF500	198.4	5,040	88.8	2,255	49.7	1,262	66.5	1,690	61.0	1,550	6	6	2,990	1,450	2,880	1,400	7,440	3,382
	TF550	218.1	5,540	96.7	2,455	57.6	1,462	76.4	1,940	70.9	1,800	6	5	2,380	1,150	2,290	1,100	7,531	3,423
3-STAGE FULL FREE LIFT	TF600	237.8	6,040	104.5	2,655	65.4	1,662	84.3	2,140	78.7	2,000	6	5	1,670	800	1,580	750	7,630	3,468
	TF650	257.5	6,540	112.4	2,855	73.3	1,862	91.3	2,320	85.8	2,180	3	3	1,300	625	1,230	575	7,731	3,514
	TF700	277.2	7,040	120.3	3,055	81.2	2,062	99.8	2,534	94.3	2,394	3	3	950	450	880	400	7,834	3,561
	TS370	147.2	3,740	71.1	1,805	32.0	812	38.3	972	38.3	972	6	6	3,850	1,900	3,720	1,825	7,247	3,294
	TS400	159.1	4,040	75.0	1,905	35.9	912	42.2	1,072	42.2	1,072	6	6	3,760	1,850	3,630	1,775	7,289	3,313
	TS430	170.9	4,340	78.9	2,005	39.8	1,012	46.1	1,172	46.1	1,172	6	6	3,670	1,800	3,540	1,725	7,330	3,332
	TS450	178.7	4,540	82.9	2,105	43.8	1,112	52.0	1,322	52.0	1,322	6	6	3,590	1,750	3,450	1,675	7,377	3,353
	TS470	186.6	4,740	84.8	2,155	45.7	1,162	52.0	1,322	52.0	1,322	6	6	3,370	1,650	3,260	1,575	7,401	3,364
	TS500	198.4	5,040	88.8	2,255	49.7	1,262	56.0	1,422	56.0	1,422	6	6	2,990	1,450	2,880	1,400	7,440	3,382
	TS550	218.1	5,540	96.7	2,455	57.6	1,462	65.8	1,672	65.8	1,672	6	5	2,380	1,150	2,290	1,100	7,531	3,423
TS600	237.8	6,040	104.5	2,655	65.4	1,662	73.7	1,872	73.7	1,872	6	5	1,670	800	1,580	750	7,630	3,468	
TS650	257.5	6,540	112.4	2,855	73.3	1,862	80.8	2,052	80.8	2,052	3	3	1,300	625	1,230	575	7,731	3,514	
TS700	277.2	7,040	120.3	3,055	81.2	2,062	87.9	2,232	87.9	2,232	3	3	950	450	880	400	7,834	3,561	

## Optional Items

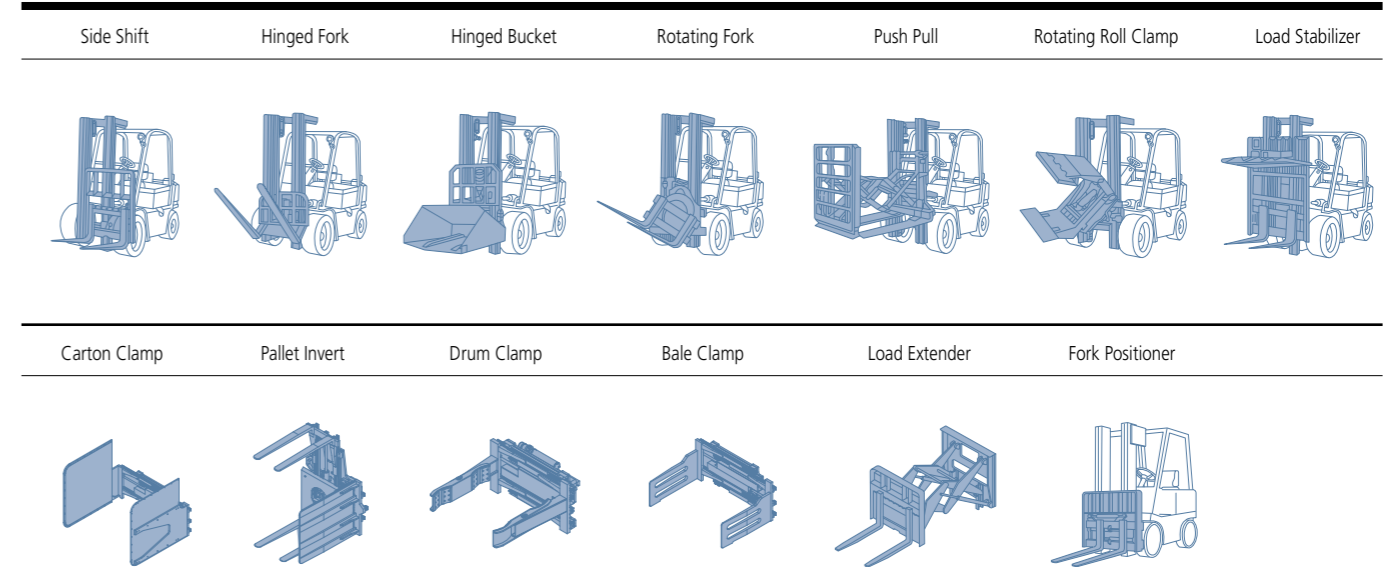
- **Fork(mm)**  
15/18D-9S : 750, 850, 900(STD), 1050, 1200, 1350, 1500  
20D-9S : 900(STD), 950, 1000, 1050, 1150, 1200, 1350, 1500, 1600
- **Overshoe(mm)**  
1300, 1500, 1700
- **Sideshift, Integral Sideshift**
- **Tire** : Pneumatic(STD) / Solid / Non-marking
- **M.C.V** : 2-Spool, 3-Spool(STD), 4-Spool
- **Under cover**
- **Load Indicator**
- **Rear Work Lamp(LED)**
- **Beacon Lamp LED (Blue, Red, Amber)**
- **Auto Fork Leveling System**
- **Seat** : Armrest, Heat, Backrest Ext, Buckle SW
- **Hydraulic Pump Temperature / Pressure on Monitor**
- **Battery Disconnect Switch (Master Switch)**
- **OPSS (Travel, Mast)**
- **Emergency Switch**
- **Fire Extinguisher**
- **Pre Cleaner**

\*The options in this brochure are subject to change improve to performance of the forklift.

## Load Capacity



## Various Attachments

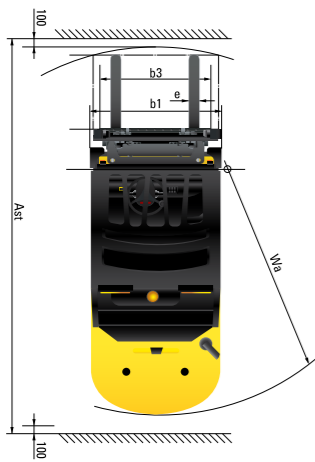
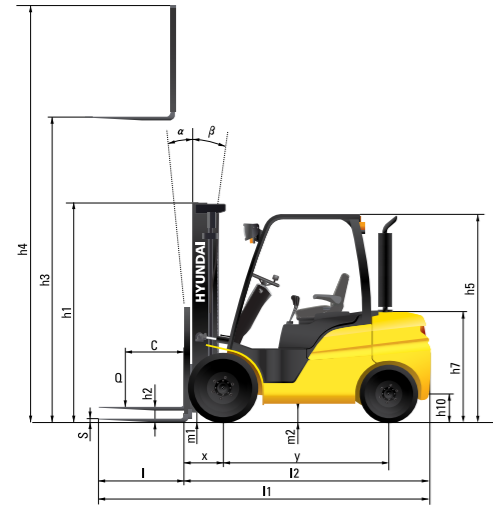




# New 9S Series

# MEMO

## Dimension



\*The specifications in this brochure are subject to change for option.

## Specification

Identification					
1.1	Manufacturer	Hyundai	Hyundai	Hyundai	
1.2	Manufacturer's model designation	15D-9S	18D-9S	20D-9S	
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	1,500	1,800	2,000
1.6	Load center distance	c mm	500	500	500
1.8	Load distance, center of drive axle to fork	x mm	393	393	398
1.9	Wheelbase	y mm	1,410	1,410	1,410
Weights					
2.1	Service weight	kg	2,886	3,050	3,217
2.2	Axle loading, loaded front / rear	kg	3,803 / 583	4,169 / 630	4,540 / 677
2.3	Axle loading, unloaded front / rear	kg	1,353 / 1,533	1,311 / 1,738	1,266 / 1,951
Wheels, Chassis					
3.1	Tires ; Pneumatic(P), Solid(S), Non-marking(N)		P	P	P
3.2	Tires size, front		6.50-10-14PR	6.50-10-14PR	6.50-10-14PR
3.3	Tires size, rear		5.00-8-8PR	5.00-8-8PR	5.00-8-8PR
3.5	Number of wheels front / rear (x=driven wheels)		2 X / 2	2 X / 2	2 X / 2
3.6	Track width, front	mm	890	890	890
3.7	Track width, rear	mm	910	910	910
Basic Dimensions					
4.1	Mast / fork carriage tilt forward / backward ( $\alpha / \beta$ )	degrees	6 / 10	6 / 10	6 / 10
4.2	Lowered mast height	h1 (mm)	2,155	2,155	2,155
4.3	Free lift	h2 (mm)	35	35	40
4.4	Lift height	h3 (mm)	3,325	3,325	3,330
4.5	Extended mast height	h4 (mm)	4,320	4,320	4,320
4.7	Overhead guard height (cabin)	h5 (mm)	2,120	2,120	2,120
4.8	Seat height / standing height rel. to SIP	h7 (mm)	1,155	1,155	1,155
4.12	Coupling height	h10 (mm)	260	260	260
4.19	Overall length	l1 (mm)	3,124	3,154	3,189
4.20	Length to face of forks	l2 (mm)	2,224	2,254	2,289
4.21	Overall width	b1 (mm)	1,070	1,070	1,070
4.22	Fork dimensions(hook type)	l / e / s (mm)	900 x 100 x 35	900 x 100 x 35	900 x 100 x 40
4.23	Fork carriage ISO 2328, class / type A,B		2A	2A	2A
4.24	Fork-carriage width	b3 (mm)	1,006	1,006	1,006
4.31	Ground clearance, loaded, under mast	m1(mm)	120	120	120
4.32	Ground clearance, centre of wheelbase	m2(mm)	135	135	135
4.33	Aisle width for pallets 1,000x1,200 crossways (LxW)	Ast(mm)	3,599	3,624	3,664
4.34	Aisle width for pallets 800x1,200 lengthways (WxL)	Ast(mm)	3,799	3,824	3,864
4.35	Turning radius	Wa(mm)	2,005	2,030	2,065
Performance Data					
5.1	Travel speed, unloaded	km/h	19.4	19.4	19.4
5.2	Lift speed, loaded/ unloaded	mm/s	620 / 650	620 / 650	620 / 650
5.3	Lowering speed, loaded/unloaded	mm/s	500 / 450	500 / 450	500 / 450
5.5	Drawbar pull, loaded	kg	1,476	1,478	1,483
5.7	Gradient performance, loaded	%	32.9	29.5	27.4
5.10	Service brake		FOOT / WET	FOOT / WET	FOOT / WET
Engine					
6.1	Engine manufacturer / type		Kubota V2203	Kubota V2203	Kubota V2203
6.2	Engine power acc. to ISO 1585	kw/rpm	30.8 / 2,400	30.8 / 2,400	30.8 / 2,400
6.3	Maximum Torque	kgf.m/rpm	14.3 / 1,600	14.3 / 1,600	14.3 / 1,600
6.4	No. of cylinder / cubic capacity	EA/cc	4 / 2,197	4 / 2,197	4 / 2,197
6.5	Fuel consumption acc. to VDI cycle	l/h	N/A	N/A	2.6
Other Details					
8.2	Operating pressure, system / attach	bar	186 / 147	186 / 147	186 / 147

# MEMO