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HYUNDAI
MATERIAL HANDLING



MOVING YOU FURTHER

35·40
45D-9F
50DA-9F



Some of the photos may include optional equipment.

HYUNDAI
MATERIAL HANDLING

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.



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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)



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.

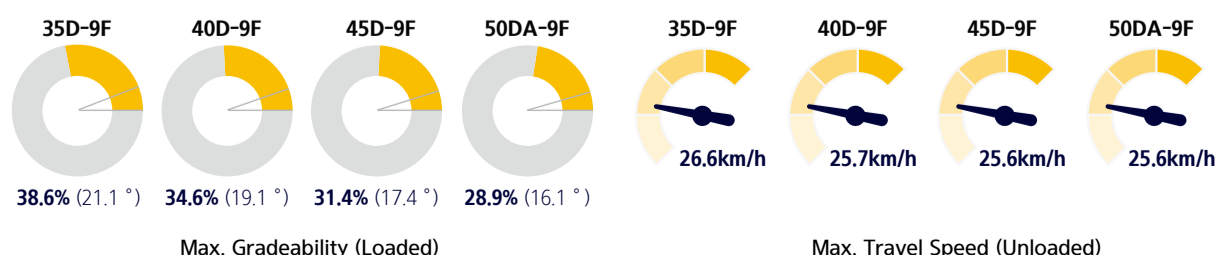


Integrated wheel rim

The integrated wheel rim provides significantly increased service life.

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.

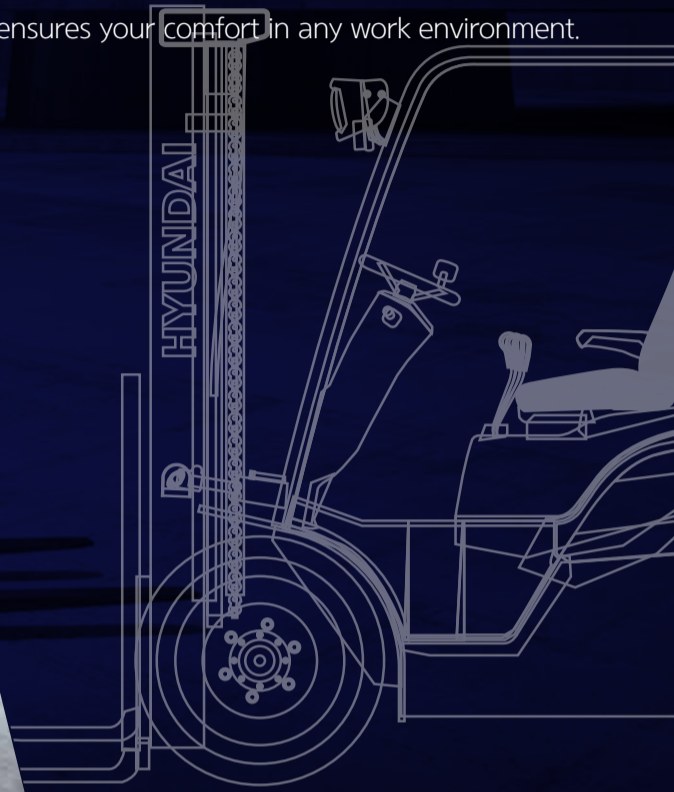




Easy & Comfort

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 anti-slip 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

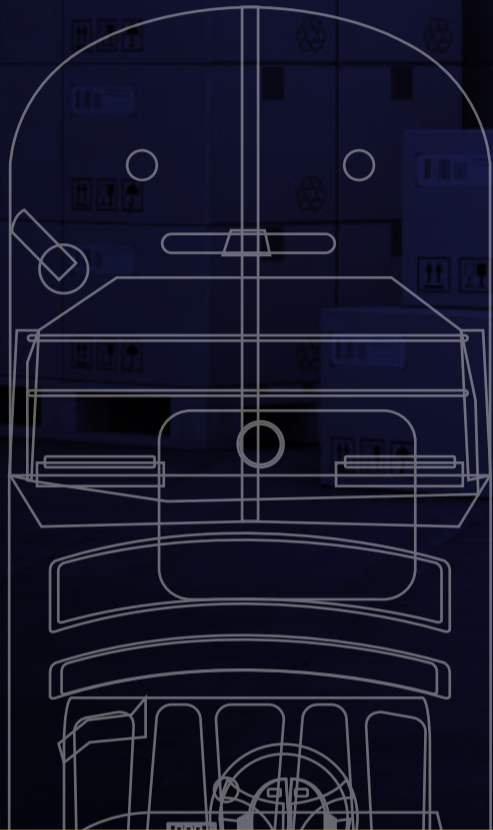
- Driving speed gauge
- Hour-meter
- Fuel gauge
- Engine temperature gauge
- Gear status indicator
- Other indicator lights / warning lights



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

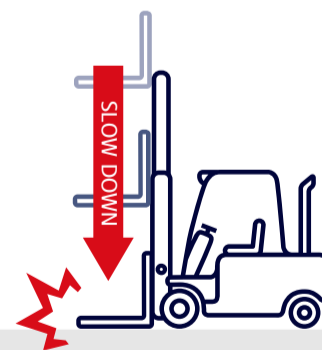
The adoption of a high-sensitivity sensor and advanced safety system eliminates the risk of safety accidents.

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

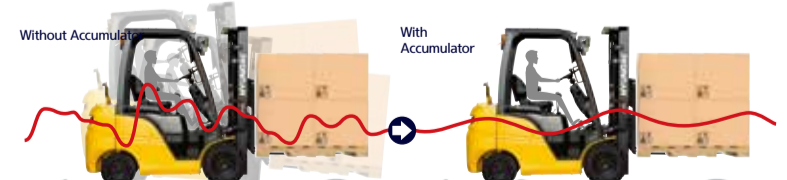
The down-safety valve prevents forks from dropping down in case of sudden damage of hydraulic line.

DRIVE LOCK LIFT LOCK



Operator Presence Sensing System

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



BEFORE Load Shock Not Absorbed

AFTER Load Shock Not Absorbed & More stable

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.



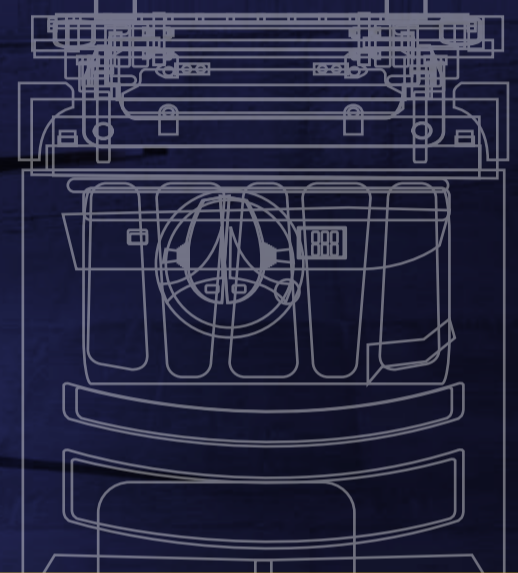
Maintenance & Convenience

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).



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.



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.



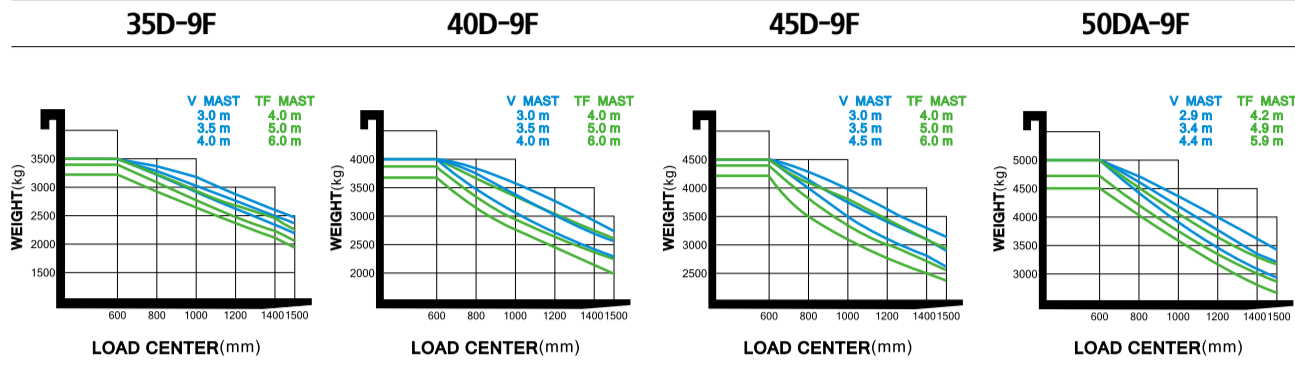
Bolt on type cabin

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.

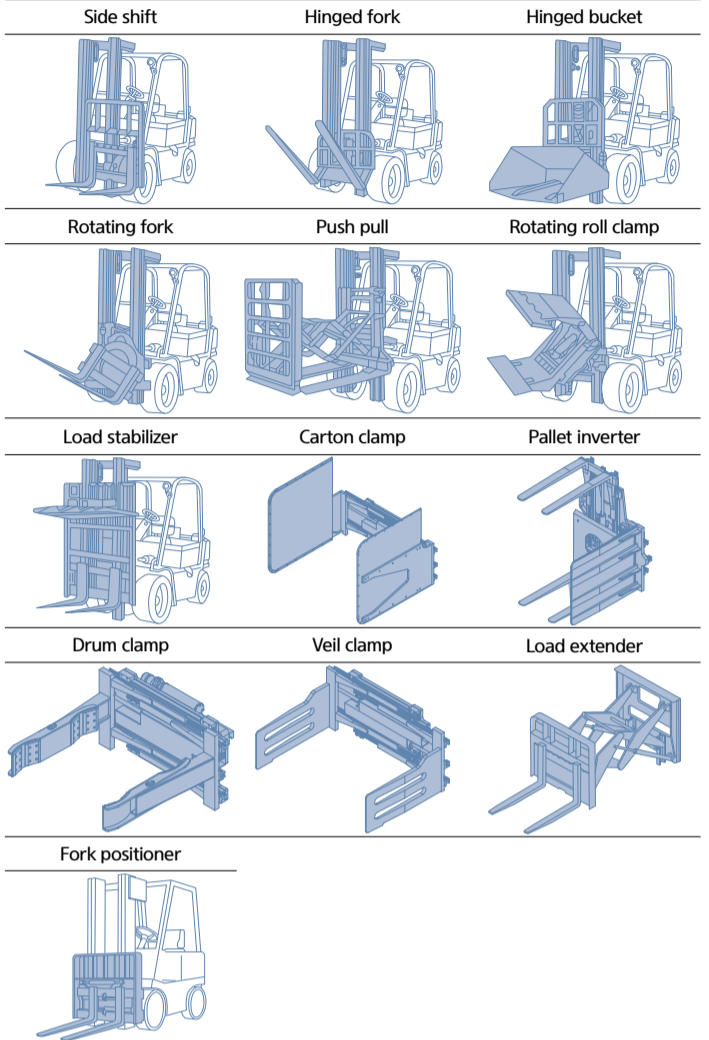
New 9 Series

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

Load Capacity



Attachments



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

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

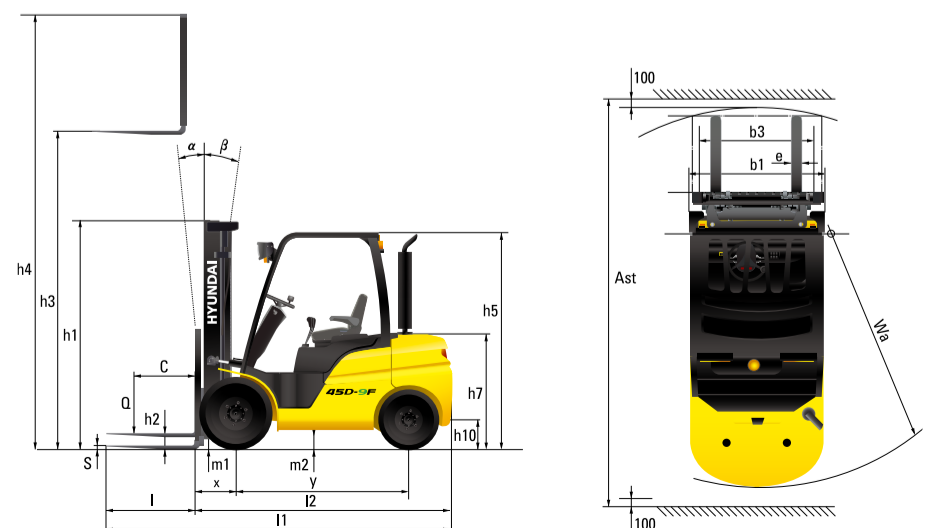
New 9 Series

Specification

Distinguishing mark		Hyundai				
1.1	Manufacturer					
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	
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	7.50-16-12PR	7.50-16-12PR	7.50-16-12PR	
3.3	Tire size, rear	7.00-12-12PR	7.00-12-14 PR	7.00-12-14PR	7.00-12-14PR	
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	1,200 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.