



MOVING YOU FURTHER

**35·40·45**

**50L-9**



Some of the photos may include optional equipment.

 **HYUNDAI**  
MATERIAL HANDLING

# Your satisfaction is our priority!

## Internal combustion LPG Engine Forklift Truck 35/40/45/50L-9 Series

Having produced products with verified excellent durability and high reliability in various customer and operation environments for many years, Hyundai Industrial Vehicle launches a new LPG forklift truck that is eco-friendly and cost-effective 4.5-ton class with improved fuel consumption rate and capabilities satisfying EPA Tier 2 and Stage V Emission Regulation.

### Environment Friendly

- Satisfying Euro Stage 5, EPA Tier 2, and low fuel consumption

### Productivity & Durability

- Dramatic reduction of TCO: Optimized engine, improved loads on cooling and hydraulic system
  - Fuel consumption rate improved by 7% (VDI 2198)
- Highest traveling speed and improved traction power: Applying new transmission and drive axle
  - \* Transmission durability improved: Capability of clutch back power transfer by 25%, increase of transmission oil volume by 4 liters
- Prolonged service life of wet-type disk brake system: Drive axle oil volume increased by 2.5 liters
- Wheel base extended: Reduced effects on traveling stability and hydraulic system

### Enhanced Safety

- Auto Parking brake: Automatically activated in case of engine OFF or OPSS operating
- Restriction of operation of drive, lift, and tilt function while the operator is absent (standard)
- Load weight indicator (optional)
- System operation stopped when the seat belt is not worn (optional)
- Allowable speed on-site identical to equipment speed (standard)
- Operator and equipment controller-certified manufacture

### Outstanding Operability (Ergonomics)

- Information visibility improved, versatile additional functions added
- Steering wheel diameter reduced and Danfoss 4th-generation Obitrol applied: Steering capability increased, noise reduced, and catching phenomenon during inverse rotation resolved
- Deluxe suspension seat of Grammer: Adjustable cushion, ELR seat belt
- Knob-on switch & horn: Convenient driving and responding to emergency situation (optional)
- Bolt on Type Deluxe Cabin, Air con, Heater (optional)

### Easy Service

- Applying standalone 3-way catalytic converter: Saving on follow-up management costs
- Versatile service functions of cluster: Alerting on consumable exchange timing and engine failure
- Mounting MCV in the horizontal direction for easy maintenance: Emergency lowering screw & regulator embedded
- IP 67-class fuse & relay box: Preventing contamination caused by dust and moisture
- Indication of LPG remainder of pressure switch (standard)





# Environment Friendly & Great Productivity Durability



Some of the photos may include optional equipment.



## Eco-friendly Kubota WG3800 LPG engine

WG3800 engine of excellent durability developed based on diesel engine of equivalent class satisfies EPA Tier 2 and Euro Stage V emission regulations; engine noise is reduced, and fuel consumption rate is improved. Catalyst converter applies as post-treatment system of exhaust gas. The compact design of the engine allows larger space in the engine room for facilitating services.

**Displacement : 3,769cc (4cyl)**  
**93ps @ 2,300rpm**  
**29.6kgm @ 1,200rpm**

## Optimized Fuel Consumption

Fuel efficiency  
**7%**

The advantages of the engine include: Optimized engine displacement and power; uniform torque throughout the rpm range; decrease in cooling system load; readjustment of tilt line pressure; and improvement of fuel consumption (VDI mode) by 7% (VDI 2198) compared to competitor products by minimizing loss of hydraulic pressure at the lifting line.

## Driving Performance

Travel speed **24%**↑  
Drawbar pull **5.3%**↑



Maximum travel speed and drawbar pull are increased by 24% and 5.3%, respectively, by resetting rpm in the high-speed region of the engine and applying the gear of new transmission and drive axle of Hyundai Core Motion.

## ▲ HYUNDAI CORE MOTION New Transmission & Drive axle



**F2/R1 - Transmission**

Power transfer capability of clutch pack and transmission oil volume are increased by 25% and 4 liters, respectively, by taking into account the continuous work environments of 2 shifts/day or more: the reverse gear, which is not frequently used, is configured in a single step to enhance durability and practicality. As a transmission controller, DCSR prevents failure of internal gear train caused by impact when changing the traveling direction between forwarding and reversing without halting vehicle operation.



**Drive axle**

Planetary reducing gear, final reduction system optimal for applications of significant torque variation applied: oil sump capacity designed to be larger for the rapid absorption and emission of braking heat. Maintenance-free auto parking system is configured on the front of the differential assembly.



**Auto shifting system**

A transmission control program is installed on the digital cluster for automatic gear shifting of the first and second gears depending on the rotation rate of transmission-out shaft to prevent the reduction of service life of transmission caused by forced start at forward second gear. (Switching to manual mode allowed)



**Wet Disc Brake**

The wet-type braking system with semi-permanent service life, designed with increased volume of drive axle oil for the rapid cooling of heat generated from braking, ensures uniform braking capability and prolonged service life even in environments of frequent braking.



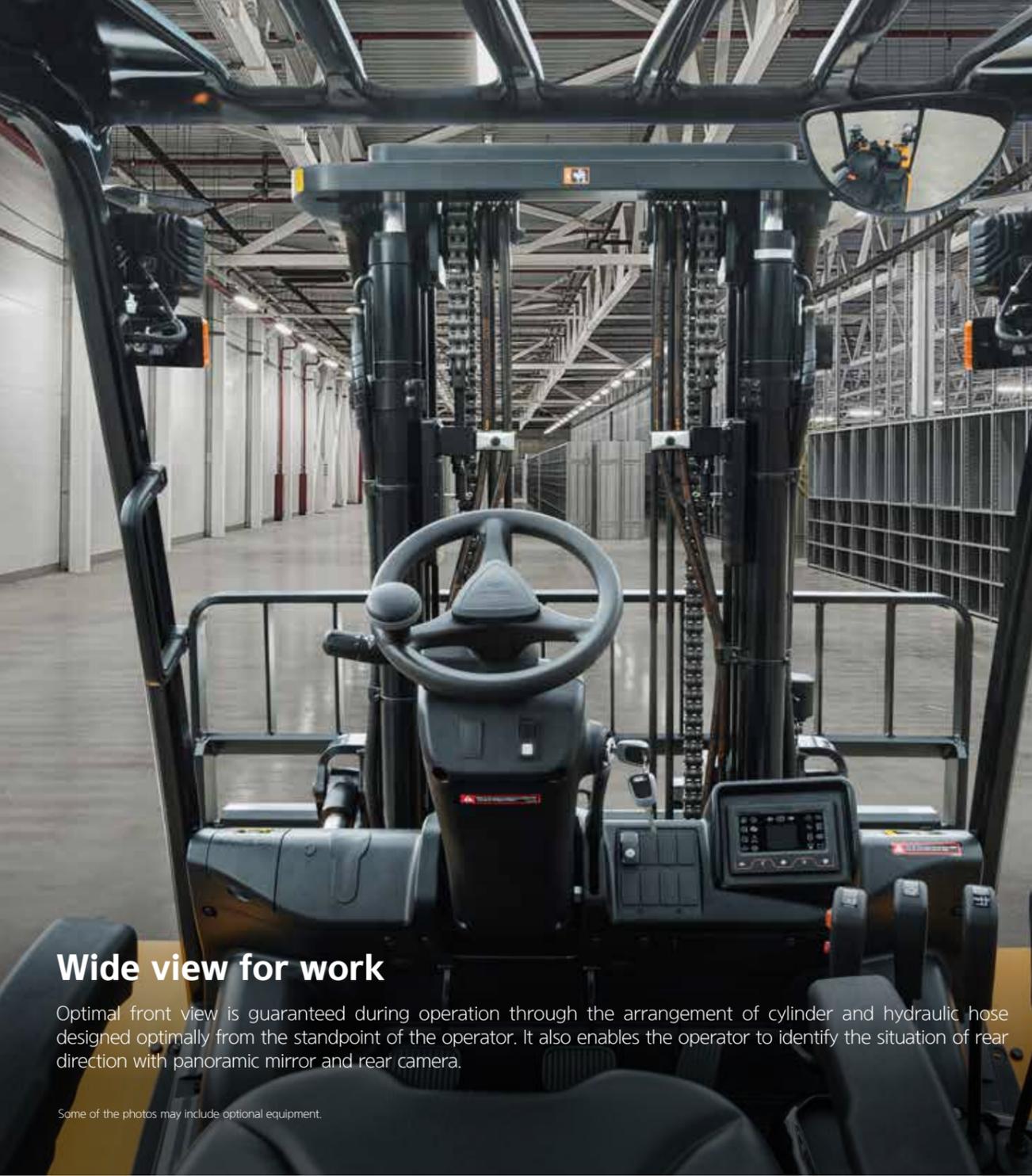
**4.5/5.0ton : 2,100mm**

## Incised Wheel Base - 4.5/5.0t

Wheel base of heavy-duty specifications (4.5/5.0 tons) is expanded by 100 mm to improve travel and work safety; the service life of the steering tire is extended, and the reliability of the steering system is improved. In addition, the capacity of the hydraulic oil tank is increased to reduce the effects of heat on the hydraulic system.



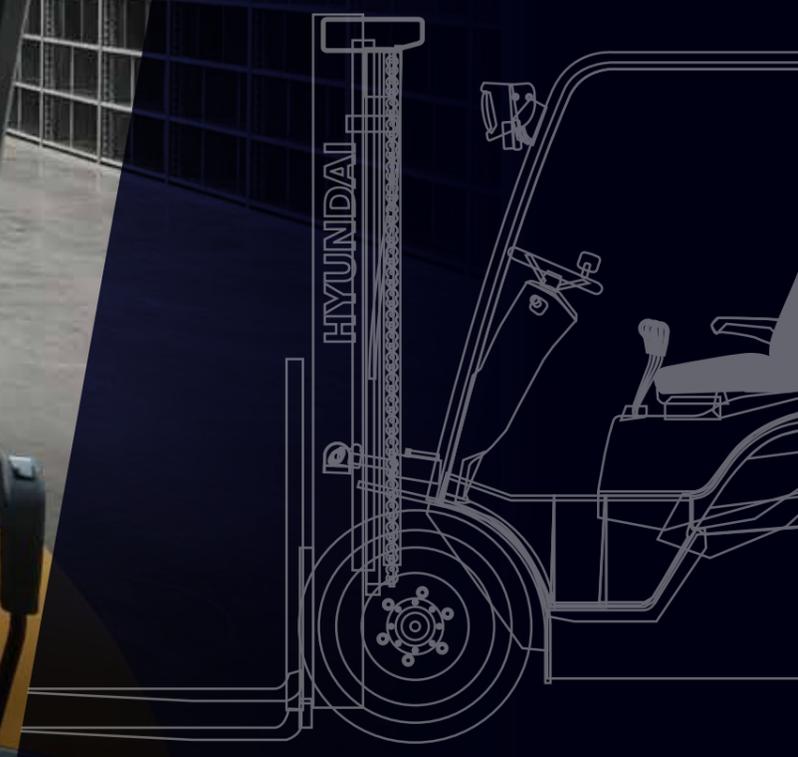
# Enhanced Safety



## Wide view for work

Optimal front view is guaranteed during operation through the arrangement of cylinder and hydraulic hose designed optimally from the standpoint of the operator. It also enables the operator to identify the situation of rear direction with panoramic mirror and rear camera.

Some of the photos may include optional equipment.



## LED lamps

LED lamps include headlamp, rear work lamp, and combination lamp, which provide higher luminance than halogen lamps. LED lamps with semi-permanent service life apply to ensure good view and visibility during night work.

## Various safety system

Functions and systems for preventing safety accidents caused by erroneous operation of the driver or unexpected situation prevent accidents, if any, in advance. Moreover, such functions and systems relieve the burden for safety during difficult and complicated works.

DRIVE LOCK    LIFT LOCK    TILT LOCK



## Operator presence sensing system

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



## Auto parking

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



## Fork safety features

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



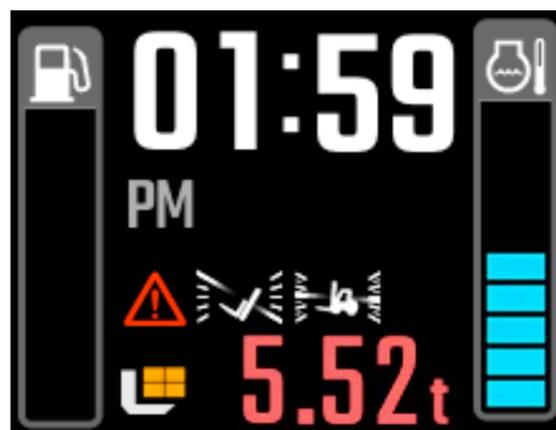
## Speed limit

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



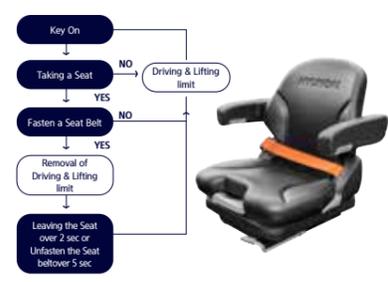
## Pass word - Start limit

A function of password input on the cluster applies for preventing safety accident or damage that may take place on the equipment when any unauthorized operator or administrator operates the equipment. (Up to ten passwords are allowed.)



## Overload warning(OPT)

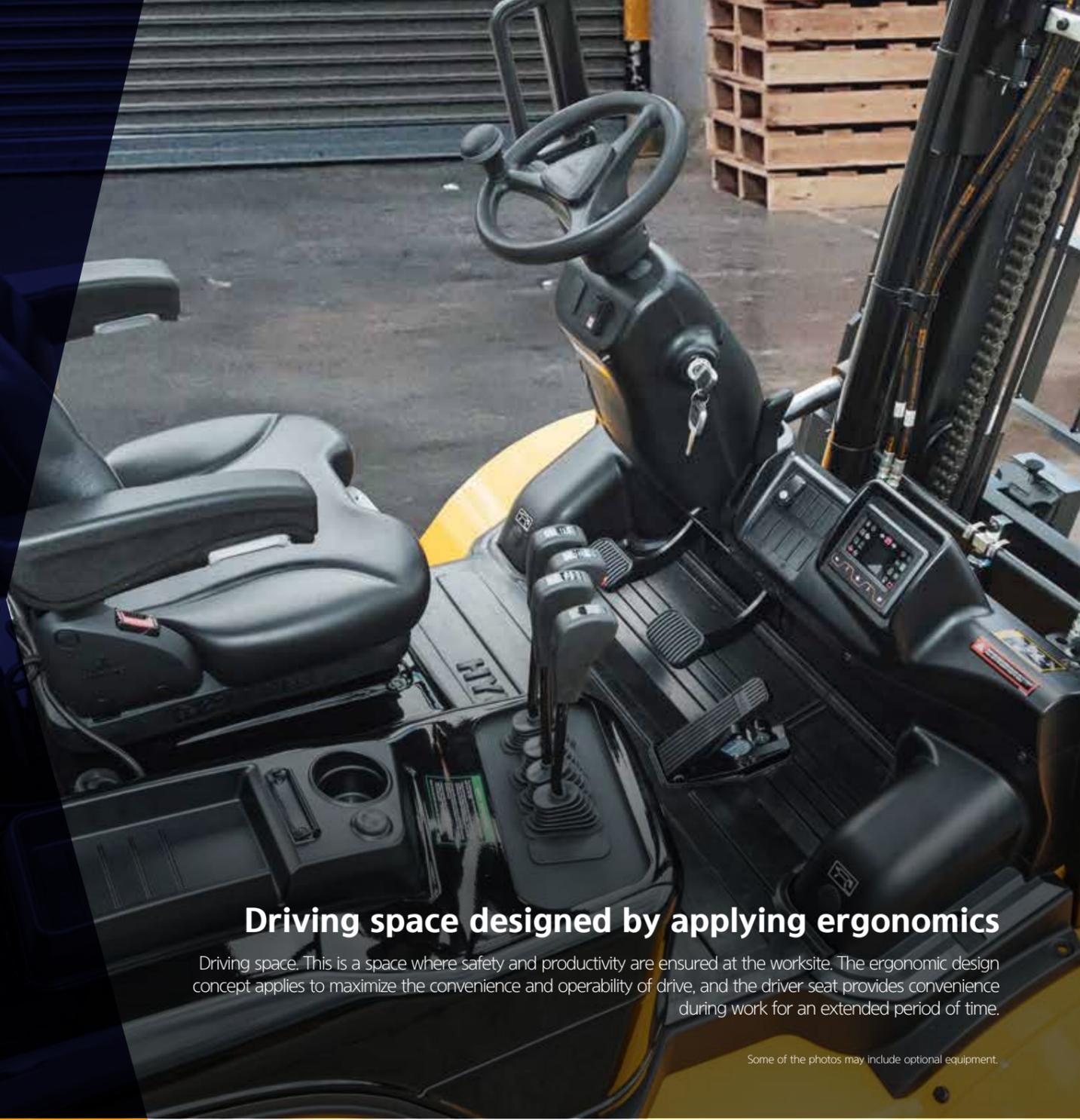
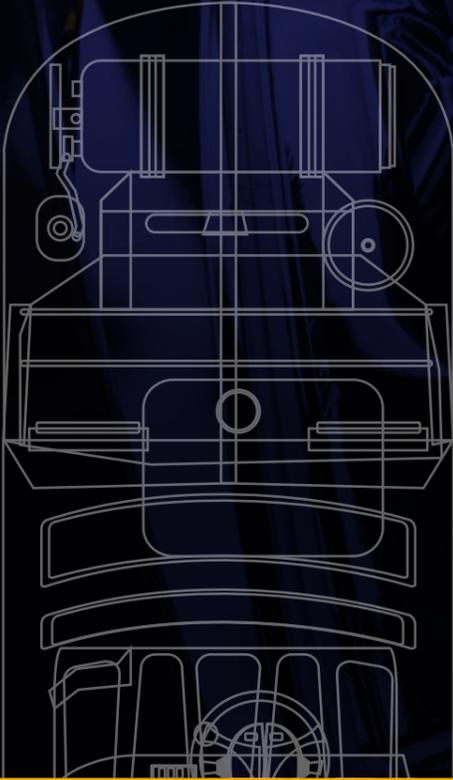
Cargo weight measurement function configured with pressure sensor of lift line and cluster program provides real-time indication of weight of lifted cargo and prompts a warning on the cluster in case of overloading to remind the operator of safety.



## Seatbelt interlock(OPT)

The operation of forklift truck stops if the wearing sequence of seat belt is not observed when starting the truck or the seat belt is intentionally unfastened. This system protects the operator from safety accidents that may take place when the seat belt is not worn

# Outstanding Operability



## Driving space designed by applying ergonomics

Driving space. This is a space where safety and productivity are ensured at the worksite. The ergonomic design concept applies to maximize the convenience and operability of drive, and the driver seat provides convenience during work for an extended period of time.

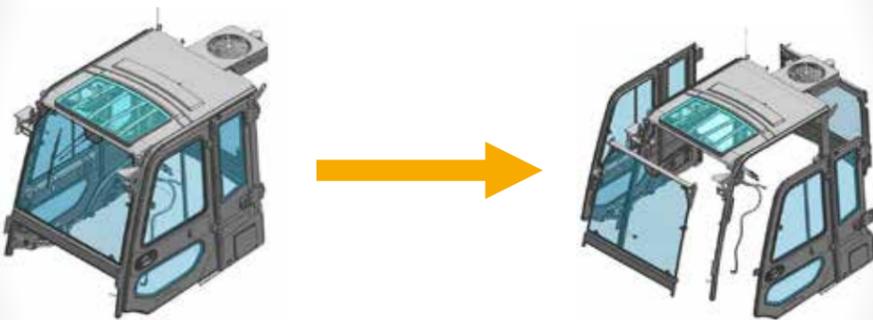
Some of the photos may include optional equipment.



### Multifunction Digital cluster

The driver is able to check the operation conditions in real time on the multifunction digital cluster designed to ensure the visibility of major information during operation, and the standard LPG remainder alarm lamp prevents the shutdown of equipment operation. In addition, various additional functions are embedded in the cluster for safe and convenient equipment management.

- Major additional functions: Control of consumable exchange timing, conversion and display of cargo weight



### Deluxe cabin, Air con, Heater(OPT)

The bolt-on type cabin consists of four components such as front glass, roof, side door, and rear glass, which can be installed and replaced with original parts easily and cost-effectively. Cabin is available in module or parts. Air-conditioner and heater are individually available as well for a pleasant driving environment.



### Full suspension seat

The full suspension seat of Grammer of Germany has an adjustable cushion depending on the weight of the driver, and convenience specifications such as seat belt switch, arm rests, and heater are optional.



### Knob on Switch & Horn(OPT)

Forward/Reverse direction switching button and horn switch are mounted on the side of the lift lever to improve rapid traveling direction switching and response to emergency situation and reduce the driver's fatigue accordingly.



### Auto tilting(OPT)

During tilt operation, forks automatically stop at a position parallel to the ground. This function enhances safety and work efficiency when loading and unloading pallets on and from the rack at high elevation. (Error may take place on the surface applied with auto tilt function when the engine rpm is kept high.)



### Steer Handle

The diameter of the steering wheel is reduced by 40 mm to ensure operation convenience and reduce the driver's fatigue. Furthermore, applying new functional devices and optimal turning function prevents jamming, heavy feeling, and noise resulting from sudden handling.

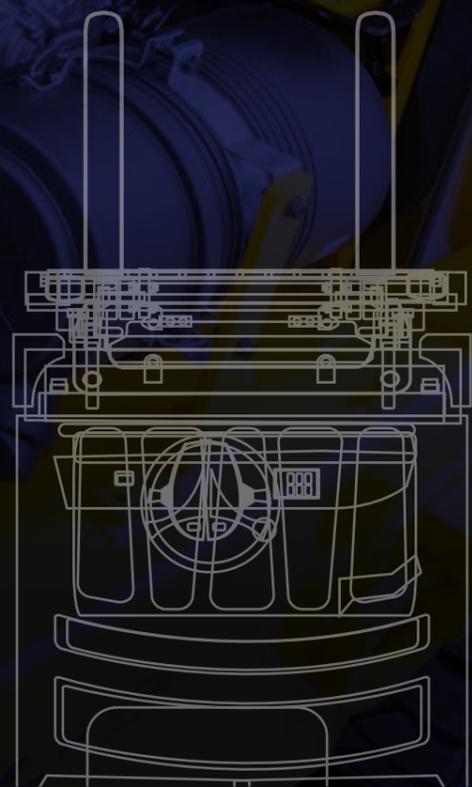
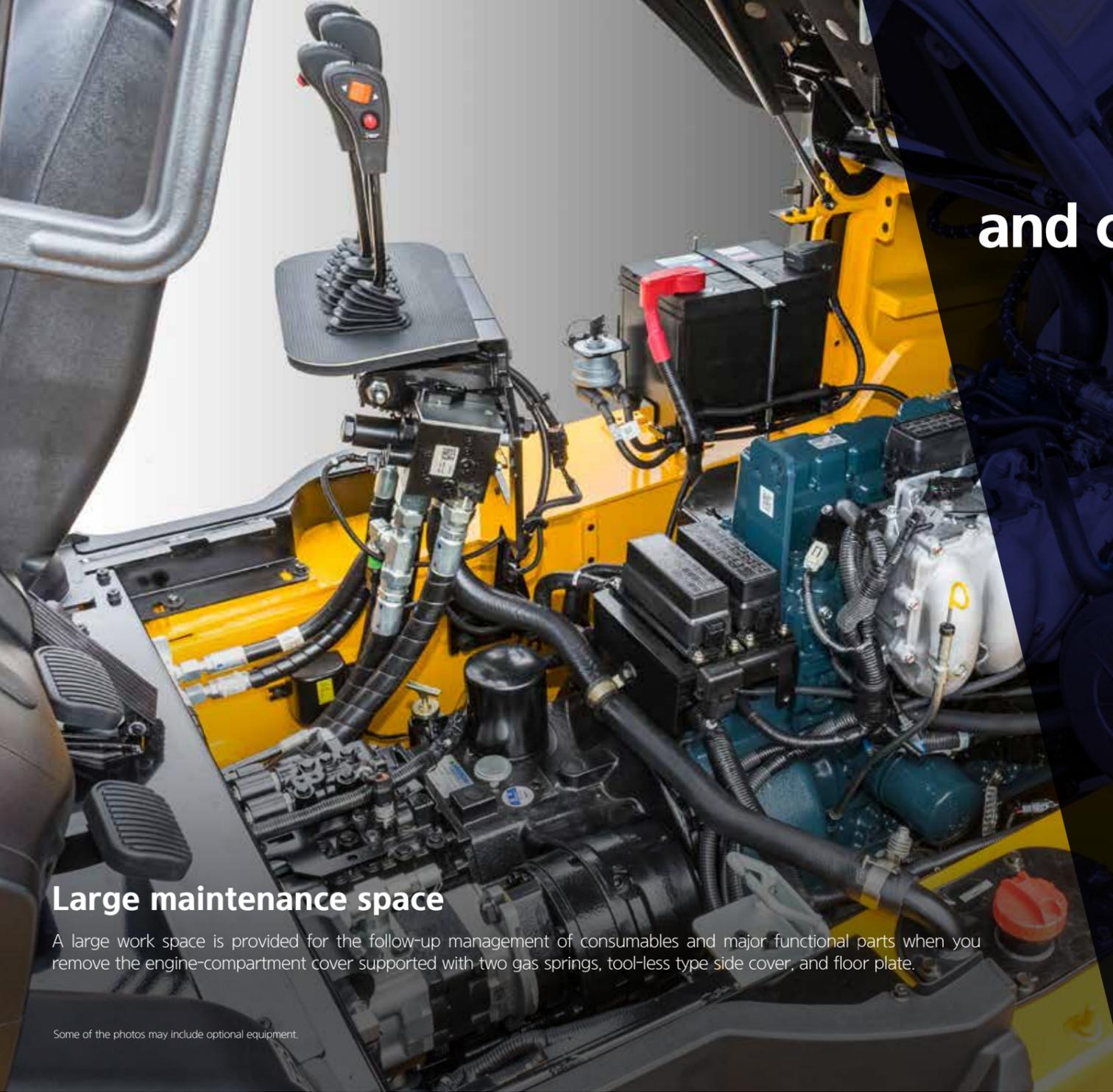


### Rear Grip Bar & Horn

The rear steering wheel with horn embedded allows the driver to keep a stable, convenient posture during rear driving and operate the horn rapidly without changing the driving posture in case of an emergency situation.



# Easy and cost-effective follow-up management



## Large maintenance space

A large work space is provided for the follow-up management of consumables and major functional parts when you remove the engine-compartment cover supported with two gas springs, tool-less type side cover, and floor plate.

Some of the photos may include optional equipment.

**✦ Engine oil & filt..**

Cycle	500
Elaps. Time	174
History	0

**Control of consumable exchange timing**

The exchange timing of consumables such as engine oil filter and air cleaner is displayed on the cluster screen in compliance with the exchange cycle indicated on the manual to prevent the degradation of capability of functional parts due to late exchange.



**IP67 Class Fuse & Relay box**

The fuse and relay, which are vulnerable to contamination, are installed in water- and dust-tight box that is in turn installed in the engine compartment to reduce the downtime for maintenance.

**✦ Active Fault**

DTC	SPN	FMI
P2264	97	2

**Water in Fuel Sensor Circuit Low**

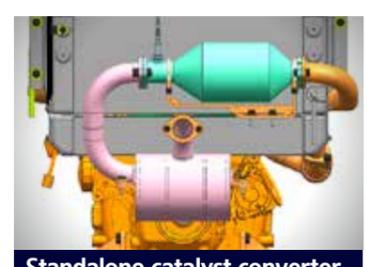
**Engine failure control**

It is possible to check the engine's failure code, which is recorded and stored by ECU on the cluster screen without any additional tool to ensure rapid and precise services.



**Detachable radiator cover**

The plastic tool-less radiator sub-hood on top of the counterweight separated from the main hood reduces the downtime for checking the cooling water level and makeup.



**Standalone catalyst converter**

A three-way catalyst converter added pursuant to Stage 5 (EPA tier 2) emission regulations is installed separately from the silence muffler to save on the follow-up management costs of the exhaust system.



**Warning of LPG remainder**

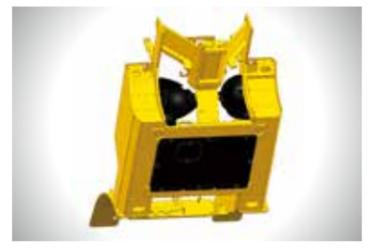
When the pressure inside the LPG tank drops below the setting due to consumption of fuel during drive, the Fuel Symbol lamp lights on the cluster to prevent any inconvenience caused by the exhaustion of LPG during work.



**Easy Service MCV**

MCV, one of the major functional parts of the hydraulic system, is installed in a horizontal direction to allow the adjustment of hydraulic pressure and exchange of spool without opening the MCV assembly.

- \* Embedded flow regulator - Easy to regulate the lowering speed
- \* Embedded emergency screw - Allowing mast lowering in an emergency situation



**Rear dust cover**

A rubber cover is installed between the steering wheel housing and engine compartment to prevent the intrusion of foreign substances into the engine compartment. This design extends the maintenance interval of the cooling system.

## Hi-MATE, a solution for field control based on data

Data collected at the sensors and modules mounted on equipment during the operation of forklift truck at the operation control system of Hyundai Industrial Vehicle is provided to the mobile device or computer of the customer in real time through the server of Hyundai Construction Equipment. Such visual data can be used for establishing a control plan for safety control in fields, productivity improvement, and cost saving.



### Equipment operation management

\* Real-time monitoring and follow-up management of individual vehicles, drivers, equipment on-site, and operation information

- Key-on time, travel hours, work hours, and traveling position



### Equipment status management

\* Supplying information of the forklift truck linked with operation hours, establishing a follow-up management plan

- Indicating fuel remainder, failure information  
- Indicating consumable exchange timing, service timing



### Safe traveling control

\* Checking and follow-up management of safety accident caused by collision between the field system and forklift truck during operation

- Count of collision, size of impact

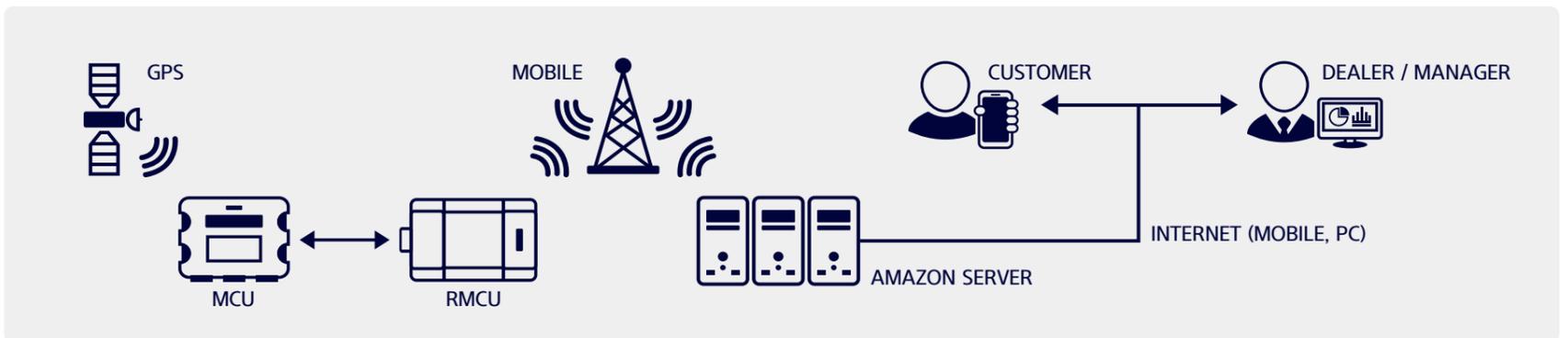


### Human resource management

\* Checking and follow-up management such as matching between self-diagnosis and equipment conditions before operation

- Driver authorization, self-diagnosis of equipment conditions

## Data Flow



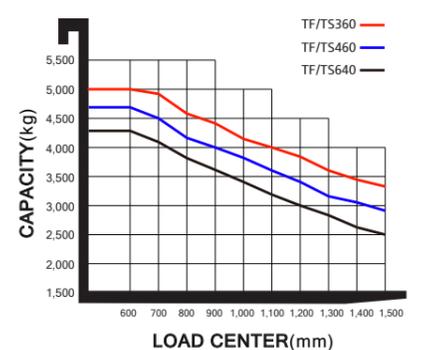
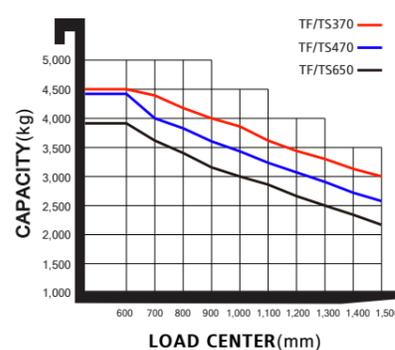
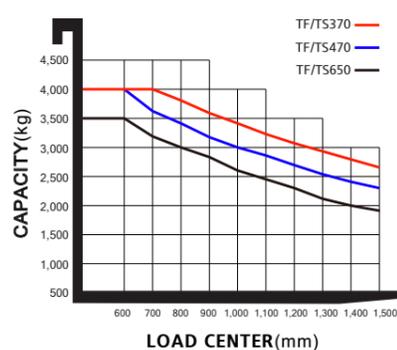
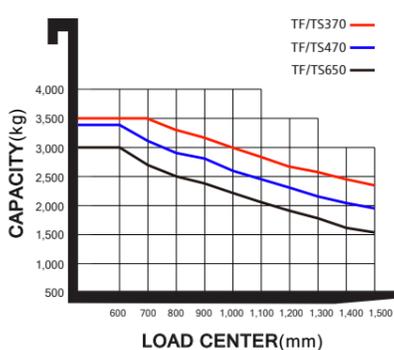
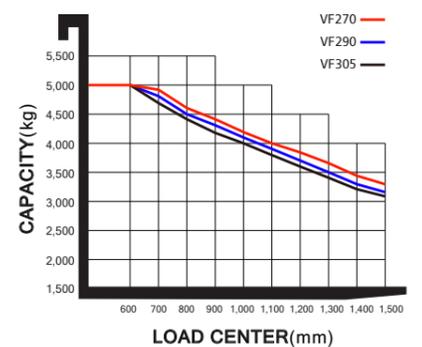
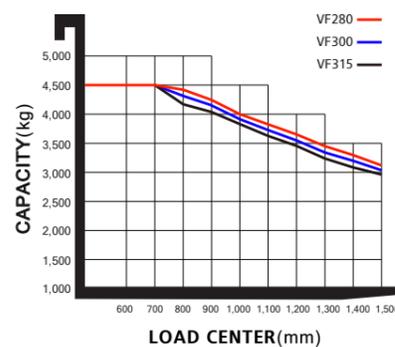
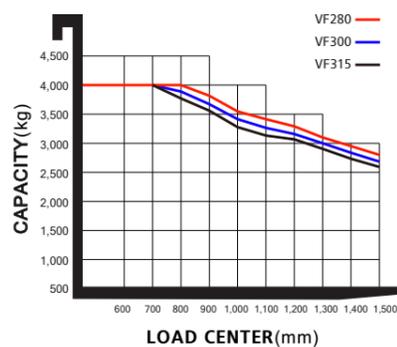
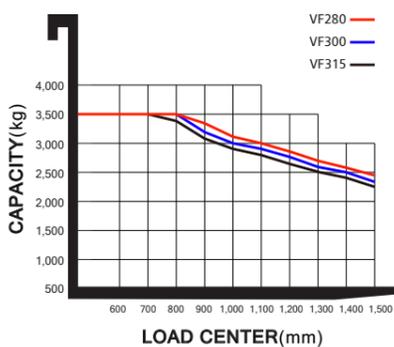
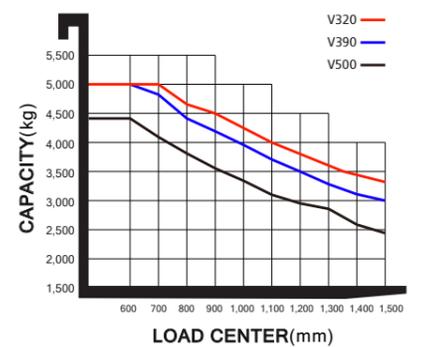
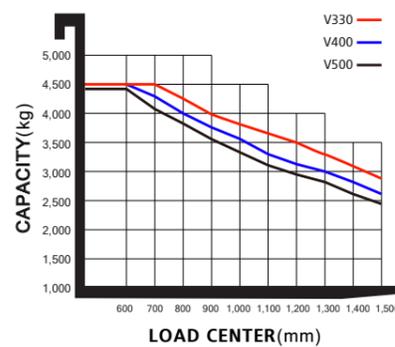
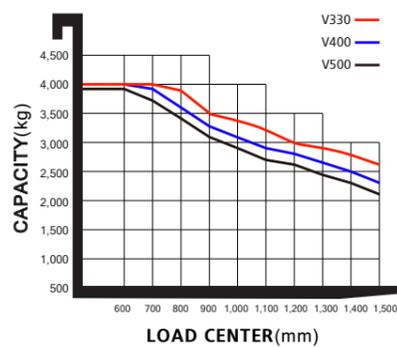
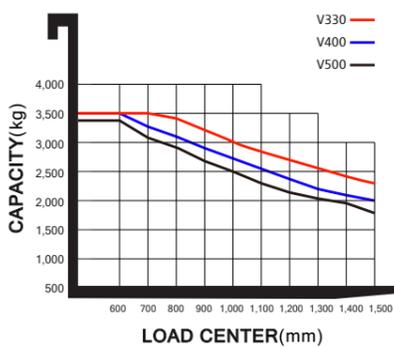
## Load Capacity

35L-9

40L-9

45L-9

50L-9



## Standard & Option

	Part	Description	35L-9	40L-9	45L-9	50L-9
OPERATION ROOM	OHG	Overhead Guard *35L-9 : 2,220mm, 40/45/50L-9 : 2,210mm	●	●	●	●
		High Overhead Guard *35L-9 : 2,350mm, 40/45/50L-9 : 2,340mm	○	○	○	○
		Overhead Guard & Rain cover *35L-9 : 2,230mm, 40/45/50L-9 : 2,220mm	○	○	○	○
		High Overhead Guard & Rain cover *35L-9 : 2,360mm, 40/45/50L-9 : 2,350mm	○	○	○	○
	Cabin	Cabin Options - One door, Two door	○	○	○	○
		Cabin accessories - Front glass with Wiper, Rear glass & Top Rain Cover	○	○	○	○
	A/C	Air Conditioner and/or Heater	○	○	○	○
	Seat	Full Suspension Synthetic Leather Seat + Orange Belt, Arm Rest, Seat Switch	●	●	●	●
		Seat Options - Non Suspension Seat	○	○	○	○
	Lever	Seat accessories - Back Rest, Seat Switch, Belt Switch, Heat	○	○	○	○
Lever - General		●	●	●	●	
Radio & USB		○	○	○	○	
Ect.	Rear Horn	●	●	●	●	
	Extinguisher	○	○	○	○	
	3 Stage mast - 4,700mm Single full free(TF)	●	●	●	●	
MAST & ATTACHMENT	Mast	2 Stage mast - Standard(V), Single full free(VF)	○	○	○	○
		3 Stage mast - Single full free(TF), Dual full free(TS)	○	○	○	○
		1,220mm Fork (1,200mm for 50L-9)	●	●	●	●
	Fork	Fork Options - 1,070mm~2,300mm	○	○	○	○
		Carriage - Narrow(1,300mm/Hook)	●	●	●	●
	Carriage	Carriage Options	-	-	-	-
		- Wide(1,600mm/Hook)	○	○	○	○
		- Special(1,460mm/Shaft)	○	○	○	○
	Attachment	Side Shift (Shaft - Intergral type)	○	○	○	○
		Side Shift (Hook type) - Hyundai, Cascade	○	○	○	○
Fork Positioner - Independent, Synchronized		○	○	○	○	
Cascade Fork Side Shift & Positioner - Independent (Hook type)		○	○	○	○	

HYDRAULICS	MCV & Hoses	4 Spool MCV + attached piping for TF470 mast	●	●	●	●
		MCV Options - 3 Spool	○	○	○	○
		MCV Options - 5 Spool	○	○	○	○
		Attached Piping for All MCVs & Masts	○	○	○	○
TIRE	Tires	Solid tires	●	●	●	●
		Tire Options	-	-	-	-
		- Pneumatic	○	○	○	○
		- Non Marking	○	○	○	○
		- Front Pneumatic + Rear Solid	○	○	○	○
		- Front Solid + Rear Pneumatic	○	○	○	○
		- Pneumatic Double(15" wheel rim)	○	○	○	○
- Solid Double(15" wheel rim)	○	○	○	○		
VISIBILITY	Lamp	Working Lamp - Front LED	●	●	●	●
		Working Lamp Options - Front LED, Rear LED, Front Bulb, Rear Bulb	○	○	○	○
		Rear Blue Spot	○	○	○	○
	Mirror	LED Beacon Lamp	○	○	○	○
		Mirror - L/H & R/H Back Mirror & Panorama Mirror	●	●	●	●
		Mirror Options - Panorama Mirror only, Outside Mirror & Panorama Mirror	○	○	○	○
CONVE-NIENCE	-	Camera	○	○	○	○
		Knob-Switch with Direction & Horn	○	○	○	○
		Auto Tilt	○	○	○	○
SAFETY	-	Load Sensor	●	●	●	●
		OPSS - Travel & Mast	●	●	●	●
		Master Switch to cut off electrcity from battery	●	●	●	●
OTHERS	-	Hazard Switch	○	○	○	○
		Plastic Side Cover	●	●	●	●
		Under Cover	○	○	○	○
		Oil-VG46	●	●	●	●
OTHERS	-	Oil Options - VG68 for Tropical, VG15 & VG32 for Cold Area	○	○	○	○
		Accumulator	○	○	○	○

● : STD / ○ : OPT

## New 9 Series

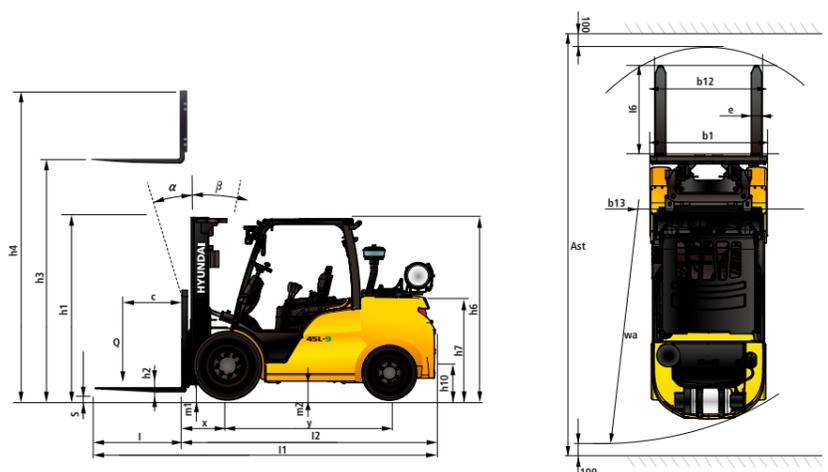
## Specification

Identification		Hyundai				
1.1	Manufacturer	Hyundai				
1.2	Manufacturer's type designation	35L-9	40L-9	45L-9	50L-9	
1.3	Drive: electric (battery or mains),diesel,petrol,fuel gas>manual	LPG	LPG	LPG	LPG	
1.4	Type of operation:hand,pedestrian,standing,seated,order-picker	Seated	Seated	Seated	Seated	
1.5	Load capacity / Rated load	kg	3,500	4,000	4,500	5,000
1.6	Load center distance	c mm	600	600	600	600
1.8	Load distance, center of drive axle to fork	x mm	561	561	561	576
1.9	Wheelbase	y mm	2,000	2,000	2,100	2,100
Weights						
2.1	Service weight	kg	5,801	6,348	6,689	7,058
2.2	Axle loading, loaded front/rear	kg	8,155/1,146	9,062/1,286	9,896/1,293	10,698/1,360
2.3	Axle loading, unloaded front/rear	kg	2,625/3,176	2,742/3,606	2,911/3,779	2,898/4,160
Wheels, Chassis						
3.1	Tires:solid rubber, superelastic, pneumatic, polyurethane	Pneumatic	Pneumatic	Pneumatic	Pneumatic	
3.2	Tires size, front(Φ x width)	8.25-15-14PR	7.50-16-12PR	7.50-16-12PR	7.50-16-12PR	
3.3	Tires size, rear(Φ x width)	7.00-12-14PR	7.00-12-14PR	7.00-12-14PR	7.00-12-14PR	
3.5	Wheels, number front x rear (x=driven wheels)	2x2	2x2	2x2	2x2	
3.6	Track width, front	b10 (mm)	1,132	1,282	1,282	1,282
3.7	Track width, rear	b11 (mm)	1,140	1,140	1,140	1,140
Basic Dimensions						
4.1	Mast/fork carriage tilt forward/backward	degrees	8/10	8/10	8/10	8/10
4.2	Lowered mast height	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	Extended mast height	h4 (mm)	4,234	4,234	4,234	4,147
4.7	Overhead load guard (Opt.) height	h6 (mm)	2,210(2,340)	2,210(2,340)	2,210(2,340)	2,210(2,340)
4.8	Seat height/ standing height	h7 (mm)	1,070	1,070	1,070	1,070
4.12	Coupling height	h10 (mm)	373	372	364	360
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	3,283	3,347
4.21	Overall width	b1 (mm)	1,370	1,370	1,370	1,370
4.22	Fork dimensions(hook type)	s/e/l(mm)	50x122x1070	50x150x1070	50x150x1220	60x150x1200
4.23	Fork carriage ISO 2328, class/type A,B	III/A	III/A	IV/A	IV/A	
4.24	Fork-carriage width	b2 (mm)	1,300	1,300	1,300	1,300
4.31	Ground clearance, loaded, under mast	m1(mm)	170	155	155	155
4.32	Ground clearance, centre of wheelbase	m2(mm)	215	205	205	200
4.34.1	Aisle width for pallets 1000x1200 crossways	Ast(mm)	4,628	4,677	4,771	4,828
4.34.2	Aisle width for pallets 800x1200 lengthways	Ast(mm)	4,828	4,877	4,971	5,028
4.35	Turning radius	Wa(mm)	2,867	2,916	3,010	3,052
4.36	Smallest pivot point distance	b13(mm)	1,009	1,009	1,054	1,054
Performance Data						
5.1	Travel speed, unloaded	km/h	30.7	29.9	29.8	29.7
5.2	Lift speed, loaded/ unloaded	mm/s	510/530	510/530	510/530	440/460

※ All technical data & Charts on brochure are based on MAST V300 (35/40/45L-9) / V290(50L-9), Hook type Carriage, No Side shift and Fork positioner, Fork 1,070 (35/40L-9) / 1,220 (45L-9) / 1,200 (50L-9)mm

5.3	Lowering speed, loaded/unloaded	mm/s	550/550	550/550	550/550	550/500
5.5	Drawbar pull, loaded	kg		-	-	-
5.6	Max. drawbar pull, laden/unladen	kg	3,861	3,852	3,863	3,869
5.7	Gradient performance, loaded	%	-	-	-	-
5.8	Max. gradeability, laden/unladen	%	40.2	35.5	32.6	30.1
5.1	Service brake		Hydraulic	Hydraulic	hydraulic	Hydraulic
Engine						
7.1	Engine manufacturer / type		KUBOTA/WG3800	KUBOTA/WG3800	KUBOTA/WG3800	KUBOTA/WG3800
7.2	Engine power acc. to ISO 1585	kW	63.5	63.5	63.5	63.5
7.3	Rated speed	1/min	2,450	2,450	2,450	2,450
7.4	No. of cylinder / cubic capacity	anz/cm <sup>3</sup>	4/3769	4/3769	4/3769	4/3769
7.5	Fuel consumption acc. To VDI cycle	ℓ/h	9.3	10.0	10.7	11.4
Other Details						
8.1	Type of drive control		Power shift 2/1	Power shift 2/1	Power shift 2/1	Power shift 2/1
8.2	Operating pressure for attachments(System)	bar	140(190)	140(190)	140(190)	140(190)
8.3	Oil volume for attachments	l/min	60	60	60	60
8.4	Sound level at driver's ear according to DIN 12 053	dB(A)	99.1	99.1	99.1	99.1

## Dimension



# New 9 Series Mast Specification

## 35L-9



Mast Type	Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Tilt Angle		Load Capacity without side shift				Load Capacity with side shift				TRUCK WEIGHT (UNLOADED)				
													Single Tire		Double Tire		Single Tire		Double Tire						
			Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	600mm LC	24 in LC	600mm LC	24 in LC	600mm LC	24 in LC	600mm LC	Single Tire		Double Tire		
			in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
2-STAGE LIMITED FREE LIFT	V300	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,760	5,788	13,100	5,942
	*V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,826	5,818	13,167	5,972
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,909	5,856	13,250	6,010
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,960	5,879	13,301	6,033
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	13,004	5,899	13,345	6,053
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	7,480	3,400	7,590	3,450	13,098	5,941	13,439	6,096
	V430	170.1	4,320	117.9	2,995	117.3	2,980	4.7	120	4.7	120	8	10	8,000	3,500	8,000	3,500	7,370	3,350	7,480	3,400	13,223	5,998	13,563	6,152
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	8,000	3,500	8,000	3,500	7,260	3,300	7,370	3,350	13,347	6,054	13,687	6,208
V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	7,480	3,400	8,000	3,500	7,040	3,200	7,150	3,250	13,459	6,105	13,799	6,259	
2-STAGE FULL FREE LIFT	VF280	110.4	2,805	84.1	2,135	83.5	2,120	36.7	931	49.5	1,258	8	8	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,851	5,829	13,185	5,981
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	40.6	1,031	53.5	1,358	8	8	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,908	5,855	13,242	6,007
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	44.1	1,121	57.0	1,448	8	8	8,000	3,500	8,000	3,500	8,000	3,500	8,000	3,500	12,951	5,874	13,285	6,026
3-STAGE FULL FREE LIFT	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	32.4	822	45.2	1,149	8	8	8,000	3,500	8,000	3,500	7,370	3,350	7,590	3,450	13,326	6,045	13,667	6,199
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	36.3	922	49.2	1,249	8	8	8,000	3,500	8,000	3,500	7,260	3,300	7,480	3,400	13,392	6,075	13,733	6,229
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	40.2	1,022	53.1	1,349	8	8	8,000	3,500	8,000	3,500	7,150	3,250	7,370	3,350	13,461	6,106	13,801	6,260
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	42.6	1,082	55.5	1,409	8	8	8,000	3,500	8,000	3,500	7,040	3,200	7,260	3,300	13,502	6,125	13,843	6,279
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	46.1	1,172	59.0	1,499	8	8	7,480	3,400	8,000	3,500	6,930	3,150	7,150	3,250	13,583	6,161	13,923	6,315
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	50.1	1,272	63.0	1,599	8	6	7,260	3,300	7,480	3,400	6,820	3,100	7,040	3,200	13,634	6,184	13,974	6,338
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	57.2	1,452	70.0	1,779	8	6	7,040	3,200	7,260	3,300	6,270	2,850	6,820	3,100	13,768	6,245	14,109	6,400
	TF/TS600	237.4	6,030	112.0	2,845	111.4	2,830	64.3	1,632	77.1	1,959	8	6	6,820	3,100	7,040	3,200	5,390	2,450	6,600	3,000	13,919	6,314	14,259	6,468
TF/TS650	257.5	6,540	119.1	3,025	118.5	3,010	71.3	1,812	84.2	2,139	8	6	6,600	3,000	6,600	3,000	5,170	2,350	6,380	2,900	14,011	6,355	14,351	6,510	

※ : Standard

## New 9 Series

## 40L-9



Mast Type	Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Tilt Angle		Load Capacity without side shift				Load Capacity with side shift				TRUCK WEIGHT (UNLOADED)				
													Single Tire		Double Tire		Single Tire		Double Tire						
			Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	600mm LC	24 in LC	600mm LC	24 in LC	600mm LC	24 in LC	600mm LC	Single Tire		Double Tire		
			in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
2-STAGE LIMITED FREE LIFT	V270	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,711	6,219	13,977	6,340
	※V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,778	6,249	14,043	6,370
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,861	6,287	14,126	6,408
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,912	6,310	14,177	6,431
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,888	3,950	8,888	3,950	13,956	6,330	14,222	6,451
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,775	3,900	8,775	3,900	14,050	6,373	14,315	6,493
	V430	170.1	4,320	117.9	2,995	117.3	2,980	4.7	120	4.7	120	8	10	9,000	4,000	9,000	4,000	8,663	3,850	8,663	3,850	14,174	6,429	14,440	6,550
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	9,000	4,000	9,000	4,000	8,550	3,800	8,550	3,800	14,298	6,486	14,564	6,606
V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	8,775	3,900	9,000	4,000	8,325	3,700	8,325	3,700	14,410	6,536	14,676	6,657	
2-STAGE FULL FREE LIFT	VF280	110.4	2,805	84.1	2,135	83.5	2,120	36.1	916	48.9	1,243	8	8	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,724	6,225	14,060	6,377
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	40.0	1,016	52.9	1,343	8	8	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,782	6,251	14,117	6,404
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	43.5	1,106	56.4	1,433	8	8	9,000	4,000	9,000	4,000	9,000	4,000	9,000	4,000	13,824	6,271	14,160	6,423
3-STAGE FULL FREE LIFT	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	31.8	807	44.6	1,134	8	8	9,000	4,000	9,000	4,000	8,775	3,900	8,888	3,950	14,278	6,476	14,543	6,597
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	35.7	907	48.6	1,234	8	8	9,000	4,000	9,000	4,000	8,663	3,850	8,663	3,850	14,343	6,506	14,609	6,627
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	39.6	1,007	52.5	1,334	8	8	9,000	4,000	9,000	4,000	8,550	3,800	8,550	3,800	14,412	6,537	14,678	6,658
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	42.0	1,067	54.9	1,394	8	8	9,000	4,000	9,000	4,000	8,550	3,800	8,550	3,800	14,454	6,556	14,719	6,677
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	45.6	1,157	58.4	1,484	8	8	9,000	4,000	9,000	4,000	8,325	3,700	8,438	3,750	14,534	6,593	14,800	6,713
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	49.5	1,257	62.4	1,584	8	6	8,775	3,900	8,775	3,900	8,100	3,600	8,213	3,650	14,585	6,616	14,851	6,736
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	56.6	1,437	69.4	1,764	8	6	8,325	3,700	8,550	3,800	7,370	3,350	7,700	3,500	14,720	6,677	14,985	6,797
	TF/TS600	237.4	6,03																						

# New 9 Series Mast Specification

45L-9



Mast Type	Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Tilt Angle		Load Capacity without side shift				Load Capacity with side shift				TRUCK WEIGHT (UNLOADED)				
													Single Tire		Double Tire		Single Tire		Double Tire						
			Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	600mm LC	24 in LC	600mm LC	24 in LC	600mm LC	24 in LC	600mm LC	Single Tire		Double Tire		
			in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
2-STAGE LIMITED FREE LIFT	V270	107.1	2,720	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,459	6,559	14,738	6,685
	※V300	118.9	3,020	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,526	6,589	14,805	6,715
	V330	130.7	3,320	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,609	6,626	14,888	6,753
	V350	138.6	3,520	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,660	6,650	14,939	6,776
	V370	146.5	3,720	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	9,680	4,400	9,680	4,400	14,704	6,670	14,983	6,796
	V400	158.3	4,020	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	9,570	4,350	9,570	4,350	14,798	6,712	15,077	6,839
	V430	170.1	4,320	115.9	2,945	117.3	2,980	4.7	120	4.7	120	8	10	10,000	4,500	10,000	4,500	9,460	4,300	9,460	4,300	14,922	6,769	15,201	6,895
	V450	178.0	4,520	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	10,000	4,500	10,000	4,500	9,240	4,200	9,240	4,200	15,046	6,825	15,325	6,951
V500	197.6	5,020	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	9,680	4,400	9,680	4,400	8,910	4,050	8,910	4,050	15,158	6,876	15,437	7,002	
2-STAGE FULL FREE LIFT	VF280	110.4	2,805	84.1	2,135	83.5	2,120	33.6	853	56.8	1,442	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,539	6,595	14,818	6,721
	VF300	118.3	3,005	88.0	2,235	87.4	2,220	37.5	953	60.7	1,542	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,596	6,621	14,875	6,747
	VF315	124.2	3,155	91.5	2,325	90.9	2,310	41.1	1,043	63.1	1,602	8	8	10,000	4,500	10,000	4,500	10,000	4,500	10,000	4,500	14,639	6,640	14,918	6,767
3-STAGE FULL FREE LIFT	TF/TS370	146.9	3,730	80.1	2,035	79.5	2,020	31.3	796	43.9	1,114	8	8	10,000	4,500	10,000	4,500	9,570	4,350	9,570	4,350	15,026	6,816	15,310	6,945
	TF/TS400	158.7	4,030	84.1	2,135	83.5	2,120	35.3	896	47.8	1,214	8	8	10,000	4,500	10,000	4,500	9,460	4,300	9,460	4,300	15,092	6,846	15,376	6,975
	TF/TS430	170.5	4,330	88.0	2,235	87.4	2,220	39.2	996	51.7	1,314	8	8	10,000	4,500	10,000	4,500	9,240	4,200	9,240	4,200	15,161	6,877	15,445	7,006
	TF/TS450	177.6	4,510	90.4	2,295	89.8	2,280	41.6	1,056	54.1	1,374	8	8	10,000	4,500	10,000	4,500	9,130	4,150	9,130	4,150	15,202	6,896	15,486	7,025
	TF/TS470	185.8	4,720	93.9	2,385	93.3	2,370	45.1	1,145	58.4	1,484	8	8	9,680	4,400	9,680	4,400	9,020	4,100	9,020	4,100	15,283	6,932	15,567	7,061
	TF/TS500	197.6	5,020	97.8	2,485	97.2	2,470	49.1	1,246	61.6	1,564	8	6	9,460	4,300	9,460	4,300	8,800	4,000	8,800	4,000	15,333	6,955	15,618	7,084
	TF/TS550	217.3	5,520	104.9	2,665	104.3	2,650	56.1	1,426	68.7	1,744	8	6	9,240	4,200	9,240	4,200	8,470	3,850	8,470	3,850	15,468	7,016	15,753	7,145
	TF/TS600	237.4	6,030	112.0	2,845	111.4	2,830	63.2	1,606	75.7	1,924	8	6	8,800	4,000	8,800	4,000	7,150	3,250	8,250	3,750	15,619	7,085	15,903	7,214
TF/TS650	257.5	6,540	119.1	3,025	118.5	3,010	70.3	1,786	82.8	2,104	8	6	8,580	3,900	8,580	3,900	6,930	3,150	8,030	3,650	15,711	7,126	15,995	7,255	

※ : Standard

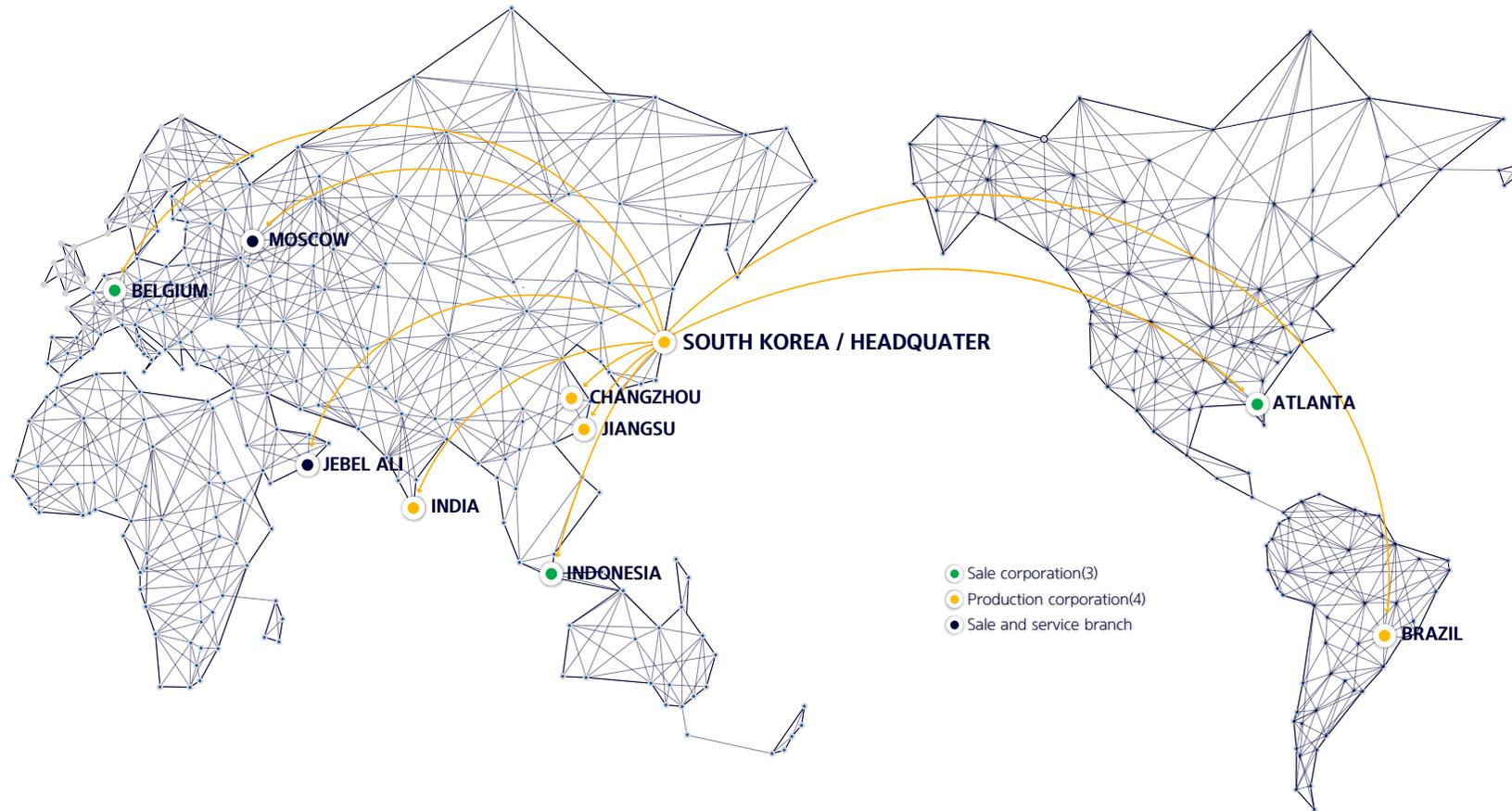
## New 9 Series

50L-9



Mast Type	Maximum Fork Height		Overall Height (Lowered)				Free Lift Height				Tilt Angle		Load Capacity without side shift				Load Capacity with side shift				TRUCK WEIGHT (UNLOADED)				
													Single Tire		Double Tire		Single Tire		Double Tire						
			Single Tire		Double Tire		With Load Backrest		Without Load Backrest		Fwd	Bwd	24 in LC	600mm LC	24 in LC	600mm LC	24 in LC	600mm LC	24 in LC	600mm LC	Single Tire		Double Tire		
			in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg	lb	kg	lb	kg	lb
2-STAGE LIMITED FREE LIFT	V260	103.5	2,630	82.1	2,085	81.5	2,070	4.7	120	4.7	120	8	10	11,000	5,000	11,000	5,000	11,000	5,000	11,000	5,000	15,326	6,952	15,521	7,040
	※V290	115.4	2,930	88.0	2,235	87.4	2,220	4.7	120	4.7	120	8	10	11,000	5,000	11,000	5,000	11,000	5,000	11,000	5,000	15,494	7,028	15,689	7,116
	V320	127.2	3,230	93.9	2,385	93.3	2,370	4.7	120	4.7	120	8	10	11,000	5,000	11,000	5,000	11,000	5,000	11,000	5,000	15,437	7,002	15,632	7,091
	V340	135.0	3,430	99.8	2,535	99.2	2,520	4.7	120	4.7	120	8	10	11,000	5,000	11,000	5,000	10,890	4,950	10,890	4,950	15,491	7,027	15,687	7,115
	V360	142.9	3,630	103.7	2,635	103.1	2,620	4.7	120	4.7	120	8	10	11,000	5,000	11,000	5,000	10,780	4,900	10,780	4,900	15,528	7,043	15,723	7,132
	V390	154.7	3,930	112.0	2,845	111.4	2,830	4.7	120	4.7	120	8	10	11,000	5,000	11,000	5,000	10,560	4,800	10,560	4,800	15,606	7,079	15,801	7,167
	V440	174.4	4,430	121.9	3,095	121.3	3,080	4.7	120	4.7	120	8	6	10,780	4,900	11,000	5,000	10,230	4,650	10,230	4,650	15,834	7,182	16,029	7,270
	V490	194.1	4,930	131.7	3,345	131.1	3,330	4.7	120	4.7	120	8	6	10,560	4,800	10,780	4,900	9,900	4,500	9,900	4,500	15,927	7,224	16,122	7,313
2-STAGE FULL FREE LIFT	VF270	106.4	2,702	84.1	2,135	83.5	2,120	35.6	905	48.1	1,223	8	8	11,000	5,000	11,000	5,000	10,340	4,700	11,000	5,000	15,457	7,011	15,644	7,096
	VF290	114.3	2,902	88.0	2,235	87.4	2,220	39.6	1,005	52.1	1,323	8	8	11,000	5,000	11,000	5,000	10,230	4,650	11,000	5,000	15,512	7,036	15,699	7,121
	VF305	120.2	3,052	91.5	2,325	90.9	2,310	43.1	1,095	55.6	1,413	8	8	11,000	5,000	11,000	5,000	10,010	4,550	11,000	5,000	15,552	7,054	15,738	7,139
3-STAGE FULL FREE LIFT	TF/TS360	144.6	3,672	80.1	2,035	79.5	2,020	31.8	807	42.3	1,074	8	8	11,000	5,000	11,000	5,000	10,340	4,700	10,560	4,800	15,863	7,195	16,032	7,272
	TF/TS390	156.4	3,972	84.1	2,135	83.5	2,120	35.7	907	46.2	1,174	8	8	11,000	5,000	11,000	5,000	10,230	4,650	10,340	4,700	15,921	7,222	16,089	7,298
	TF/TS420	168.2	4,272	88.0	2,235	87.4	2,220	39.6	1,007	50.2	1,274	8	8	10,780	4,900	11,000	5,000	10,010	4,550	10,120	4,600	15,976	7,247	16,144	7,323
	TF/TS440	175.3	4,452	90.4	2,295	89.8	2,280	42.0	1,067	52.5	1,334	8	8	10,560	4,800	11,000	5,000	9,900	4,500	10,010	4,550	16,012	7,263	16,180	7,339
	TF/TS460	183.5	4,662	93.9	2,385	93.3	2,370	45.5	1,157	56.1	1,424	8	8	10,340	4,700	10,780	4,900	9,790	4,450	9,900	4,500	16,064	7,286	16,232	7,363
	TF/TS490	195.4	4,962	97.8	2,485	97.2	2,470	49.5	1,257	60.0	1,524	8	6	10,120	4,600	10,560	4,800	9,570	4,350	9,790	4,450	16,119	7,312	16,288	7,388
	TF/TS540	215.0	5,462	104.9	2,665	104.3	2,650	56.6	1,437	67.1	1,704	8	6	9,900	4,500	10,340	4,700	9,350	4,250	9,460	4,300	16,234	7,364	16,403	7,440
	TF/TS590	235.1	5,972	112.0	2,845	111.4	2,830	63.6	1,617	74.2	1,884	8	6	9,680	4,400	10,120	4,600	9,020	4,100	9,240	4				

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