50/70D-9

Diesel Counterbalance Trucks

HYUNDAI FORKLIFT

HYUNDAI
FORKLIFT

Your satisfaction is **our priority!**

Hyundai introduces a new line of 9-series diesel forklift trucks.
The newly designed four-wheel counterbalance trucks provide operator comfort, increased productivity and easy maintenance.

Proven quality and advanced technology

- Maximum performance
- Spacious operator cab
- Switch-type parking brake
- 4.3 inch LCD color cluster
- Truck inclination warning system
- Maximum speed limit function
- Easy serviceability
- Password starting system
- Weight indicator (optional)
- Full automatic temperature control (FATC)
- Operator presence sensing system (OPSS) for safe operation

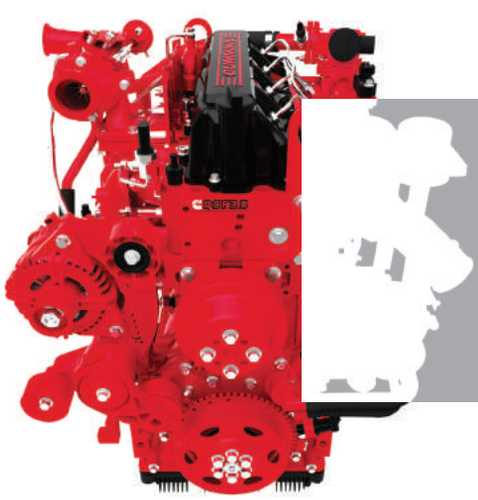
*Photos may include optional equipment.

High efficiency, **optimal performance**

*Photos may include optional equipment.

CUMMINS QSF3.8 Engine

101 hp / 2,200 rpm
306 lbf·ft / 1,600 rpm



Powerful engine

The four-cylinder, turbo-charged engine is built for power, reliability and economy. This engine meets EPA Tier 4 and EU Stage IV emissions regulations.

Excellent fuel efficiency

These new models feature improved fuel consumption compared to previous models.

SCR (Selective Catalytic Reduction)

EGR (Exhaust Gas Recirculation)

- High torque at low speeds
- Excellent transient behavior

A powerful engine and high-tech systems combine to provide enhanced performance and productivity.

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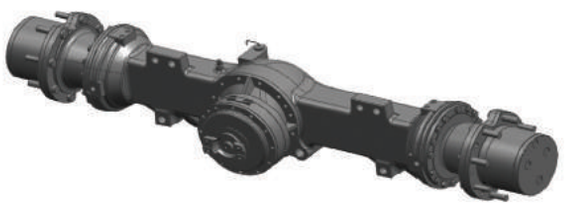
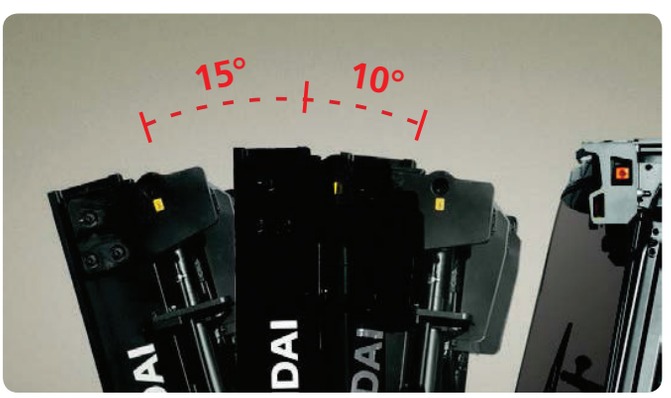


Highly durable drive axle
The strengthened drive axle, separable from the transmission, ensures low vibration and easy maintenance. The maintenance-free wet disc brakes are easy to operate and deliver smooth response.

Negative parking brake system
The wet disc parking brake provides effective performance and easy operation.

Highly durable transmission
The two-stage powershift transmission enhances work efficiency and provides fast speed and quiet travel under any heavy load condition. The clutch protection system prevents excessive use of inching and minimizes change-impact.

Fully hydrostatic power steering
The hydraulic steering system ensures smooth and flexible steering, preventing overrun and kick-back.



Increased mast tilting angle
The mast tilting angle adjusts 15 degrees forward and 10 degrees backward, allowing the operator to perform loading and unloading jobs safely and rapidly.

Maximum travel speed

Model	mph
50D-9	21
70D-9	20.8

Maximum gradeability

Model	%
50D-9	58.7
70D-9	44.4

Faster travel speed, improved gradeability
The powerful engine provides greater acceleration, improved gradeability and faster travel speed in the toughest terrain and on the steepest slopes.

Unmatched convenience, **optimized ergonomics**

*Photos may include optional equipment.

Spacious operator cabin
The newly designed cabin provides more space, a wider field of view and greater operator comfort.

Centralized instrument switch panel

Quick-response control levers
Minimal operator effort is required to provide precise, safe and productive control. Available as a four-lever configuration (standard) or a 2/3/5-lever configuration (optional).

Optimized pedal position

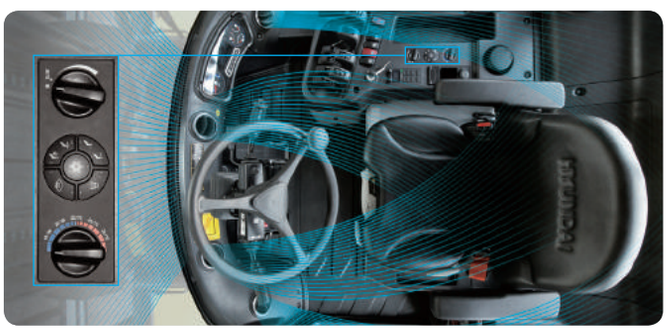
Multi-function switch lever

Grammer seat (standard)
An adjustable ergonomic seat provides unmatched comfort. The adjustable armrest further reduces operator fatigue.
- Accommodates operator weights from 99 to 375 lb
- ELR type seat belt standard
- Heater and headrest (optional)

The ergonomic cab design relieves fatigue and increases operator efficiency.

New design and concentrated cluster panel

1	Parking lamp	9	Hour meter	17	Rear-wheel angle (optional)
2	Engine check warning lamp	10	Odometer	18	Right-turn signal indicator lamp
3	High-beam indicator lamp	11	Outside temperature indicator	19	Engine coolant temperature gauge
4	Operator presence indicator lamp	12	Air-conditioning setting temp indicator	20	Transmission oil temperature gauge
5	Seat belt warning lamp	13	Vehicle tilt angle indicator	21	Fuel gauge
6	Left-turn signal indicator lamp	14	Clock	22	Speed gauge
7	Engine RPM indicator	15	T/M information display		
8	Weight indicator (optional)	16	Urea level gauge		



Automatic temperature control
The system automatically controls cab temperature to maintain an optimal working environment.

Adjustable steering wheel
Featuring a horn button, the steering wheel can be adjusted by a right-hand lever to set the most comfortable position for the operator.

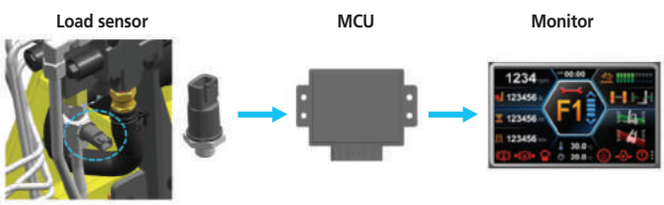
Advanced **safety**

Electrical interlock

When the parking brake is engaged, electric power for travel is interrupted, even while the forward or reverse lever is operating.

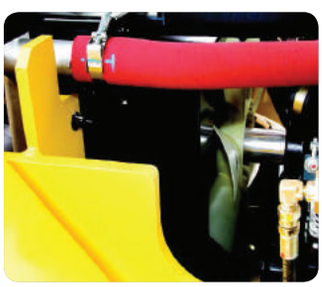
Adjustable engine, low idle RPM

While the engine is running, low idle RPM can be increased by 25 RPM, maintaining the previously set rpm when the engine restarts.



Weight 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.

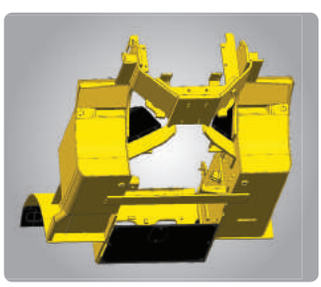


Efficient cooling system

The aluminum radiator provides excellent cooling capacity and improved air flow.

Large footboard and hand grip

The wide step provides safety and ease when entering and exiting the truck.



Rear tire cover / under cover (optional)

The cover protects the engine and components from damage caused by foreign materials.

Safe, easy shift lever

A single lever on the left side of the steering column provides fast, easy directional control. The lever must be in the neutral position before the engine can be started.

Hyundai forklifts are designed
for safety and durability.

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*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 and causing sudden damage to the hydraulic line.

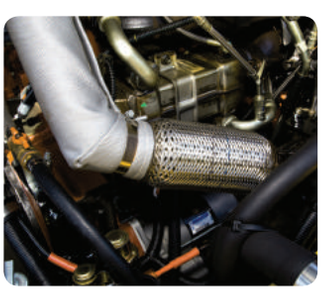
Operator presence sensing system (OPSS)

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

Lift Lock Tilt Lock Drive Lock Parking

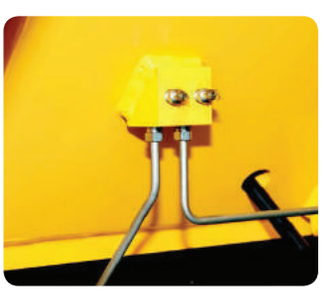
Bright, protected headlights

Standard front and back work lamps provide visibility in all circumstances.



Expansion bellows

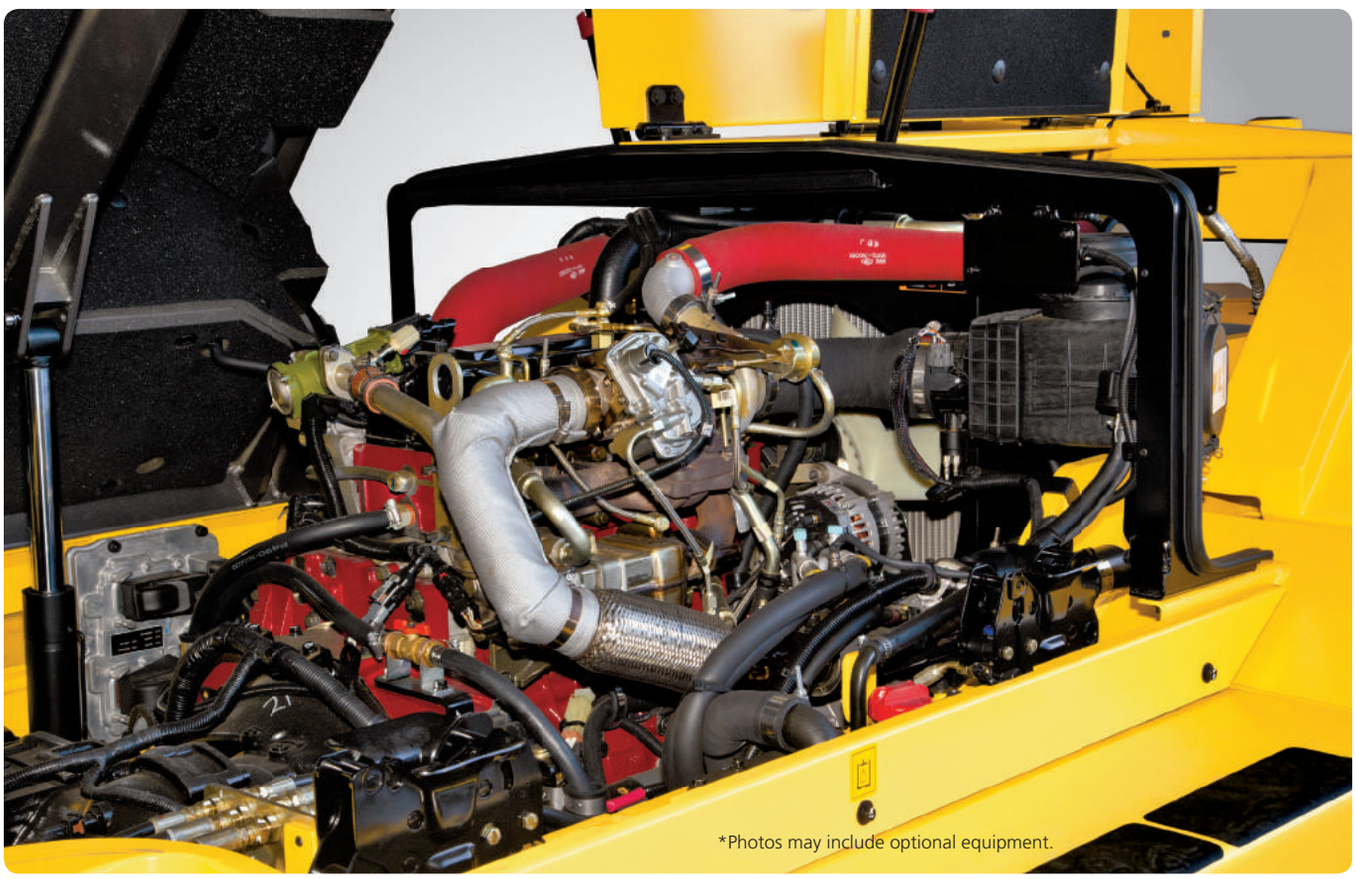
The sufficient length of the bellows pipe between the exhaust pipe and engine exhaust manifold ensures the durability of the muffler and exhaust pipe.



Grease fittings

Grease fittings are installed for fast service access to the steering axle center pin.

Fast, easy **maintenance**



*Photos may include optional equipment.

Enlarged engine hood cover
The highly accessible engine compartment assures fast, efficient maintenance.

Cab tilt system
The cab tilt system makes servicing of all powertrain components quick and easy. An electrically assisted hydraulic actuated cylinder tilts the operator cab 54 degrees to the left for easy access to truck components.

Pre-fuel filter replacement
The highly accessible engine compartment ensures quick filter replacement.

Electrically monitored air filter
The air cleaner sensor alerts the operator to a clogged air filter for timely replacement before damage occurs.

Water- and dust-proof cover
The newly developed water- and dust-proof fuse box and relay box ensure greater ease of maintenance.

Components are arranged for
easy service and
maintenance access.

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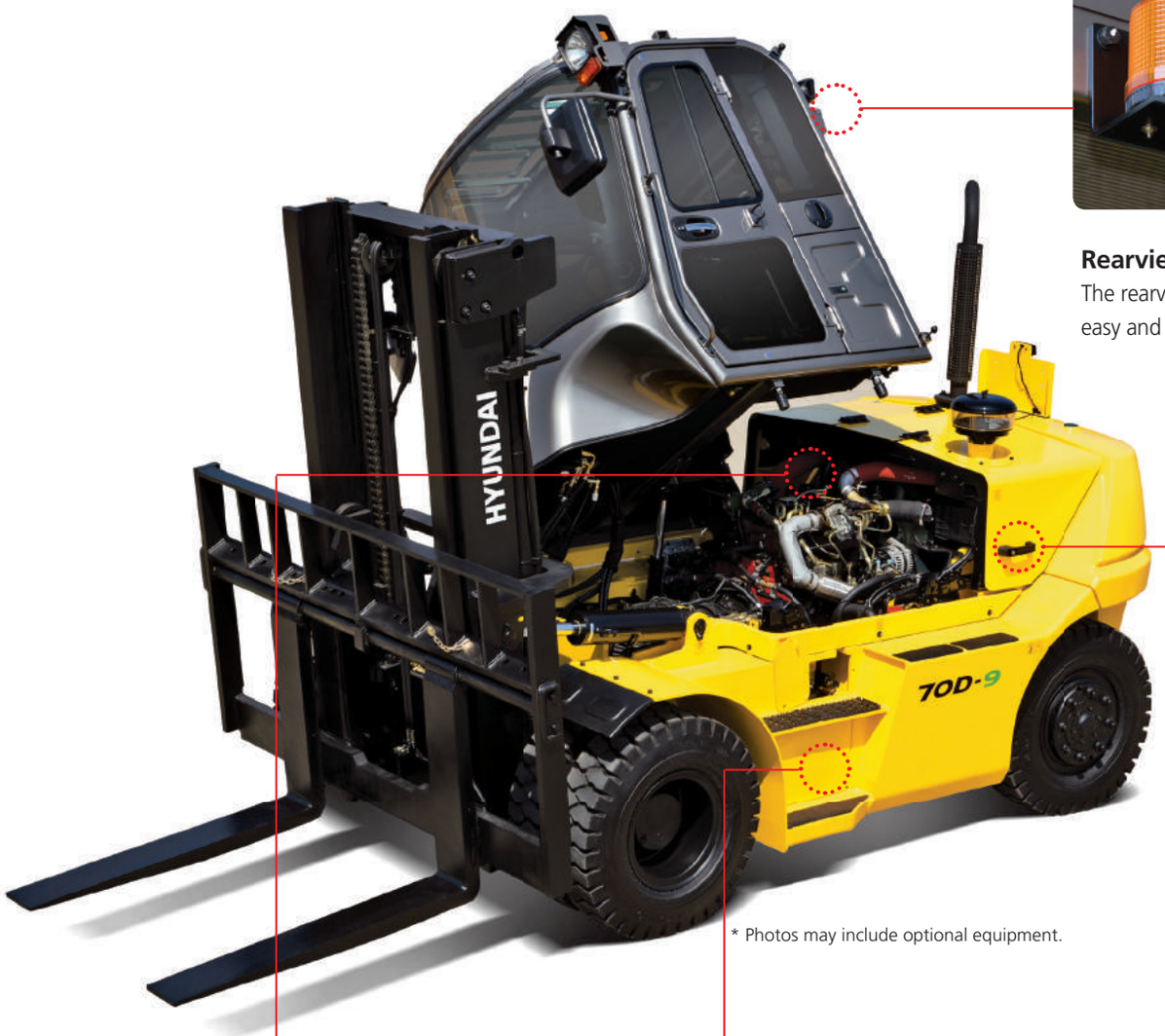
Rearview camera
The rearview camera provides easy and convenient operation.



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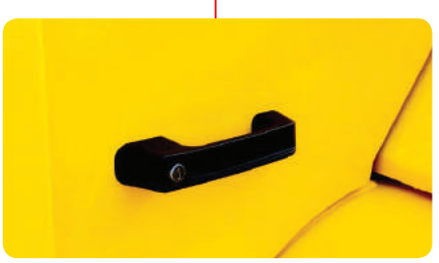


Wing cover locking system

Maintenance-free batteries

Easy-to-access windshield washer tank

New 9 Series

Mast Specification (50D-9) Standard: Hook-On Type Fork & Carriage

Mast Type		Maximum Fork Height	Overall Height			Free Lift		Tilt Angle		Load Capacity Without Side Shift At 24 in LC	Load Capacity With Side Shift At 24 in LC	Truck Weight Unloaded
			Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Fwd	Rev			
				Without Load Backrest	With Standard Load Backrest							
		in	in	in	in	in	in	deg	deg	lb	lb	lb
2-stage limited free lift	V270	107	93	145	158	6	6	15	10	11000	11000	19548
	V300	119	99	157	170	6	6	15	10	11000	11000	19654
	V330	131	105	169	182	6	6	15	10	11000	11000	19760
	V350	139	109	177	190	6	6	15	10	11000	11000	19828
	V370	147	113	185	198	6	6	15	10	11000	11000	19899
	V400	159	119	196	209	6	6	15	10	11000	11000	20022
	V450	178	131	216	229	6	6	15	10	11000	11000	20525
	V500	198	140	236	249	6	6	15	10	11000	11000	20701
	V550	218	150	256	269	6	6	15	10	11000	11000	20875
	V600	237	160	275	288	6	6	15	10	11000	11000	21050
	V700	277	180	315	328	6	6	15	6	11000	10915	21394
3-stage full free lift	TF/TS450	180	101	218	229	62	50	15	10	11000	11000	21006
	TF/TS500	199	227	238	248	70	58	15	10	11000	11000	21208
	TF/TS560	220	117	259	269	78	66	15	10	11000	10805	21453
	TF/TS600	239	125	277	288	86	74	15	10	10805	10584	21647

Mast Specification (70D-9) Standard: Hook-On Type Fork & Carriage

Mast Type		Maximum Fork Height	Overall Height			Free Lift		Tilt Angle		Load Capacity Without Side Shift At 24 in LC	Load Capacity with Side Shift At 24 in LC	Truck Weight Unloaded
			Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Fwd	Rev			
				Without Load Backrest	With Standard Load Backrest							
		in	in	in	in	in	in	deg	deg	lb	lb	lb
2-stage limited free lift	V270	107	93	154	158	6	6	15	10	15500	15500	22798
	V300	119	99	166	170	6	6	15	10	15500	15500	22902
	V330	131	105	178	182	6	6	15	10	15500	15500	23008
	V350	139	109	185	190	6	6	15	10	15500	15500	23078
	V370	147	113	193	198	6	6	15	10	15500	15500	23149
	V400	159	119	205	209	6	6	15	10	15500	15500	23272
	V450	178	131	225	229	6	6	15	10	15500	15500	23773
	V500	198	140	245	249	6	6	15	10	15500	15500	23949
	V550	218	150	264	269	6	6	15	10	15500	15500	24123
	V600	237	160	284	288	6	6	15	10	15500	15500	24298
	V700	277	180	323	328	6	6	15	6	15500	15500	24644
3-stage full free lift	TF/TS450	180	101	227	229	54	50	15	10	15500	15500	24368
	TF/TS500	199	109	247	248	61	58	15	10	15500	15500	24571
	TF/TS560	220	117	268	269	69	66	15	10	15500	15215	24816
	TF/TS600	239	125	286	288	77	74	15	10	14994	14774	25010

Mast Specification (50D-9) Optional: Shaft Type Fork & Carriage

Mast Type		Maximum Fork Height	Overall Height			Free Lift		Tilt Angle		Load Capacity Without Side Shift At 24 in LC	Load Capacity With Side Shift At 24 in LC	Truck Weight Unloaded
			Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Fwd	Rev			
				Without Load Backrest	With Standard Load Backrest							
		in	in	in	in	in	in	deg	deg	lb	lb	lb
2-stage limited free lift	V270	107	93	-	156	-	6	15	10	11000	-	19497
	V300	119	99	-	168	-	6	15	10	11000	-	19603
	V330	131	105	-	180	-	6	15	10	11000	-	19709
	V350	139	109	-	188	-	6	15	10	11000	-	19777
	V370	147	113	-	196	-	6	15	10	11000	-	19848
	V400	159	119	-	208	-	6	15	10	11000	-	19971
	V450	178	131	-	227	-	6	15	10	11000	-	20474
	V500	198	140	-	247	-	6	15	10	11000	-	20650
	V550	218	150	-	267	-	6	15	10	11000	-	20825
	V600	237	160	-	286	-	6	15	10	11000	-	20999
	V700	277	180	-	328	-	6	15	6	11000	-	21343
3-stage full free lift	TF/TS450	180	101	-	229	-	52	15	10	11000	-	20853
	TF/TS500	199	227	-	248	-	60	15	10	11000	-	21056
	TF/TS560	220	117	-	269	-	68	15	10	11000	-	21301
	TF/TS600	239	125	-	288	-	76	15	10	10805	-	21495

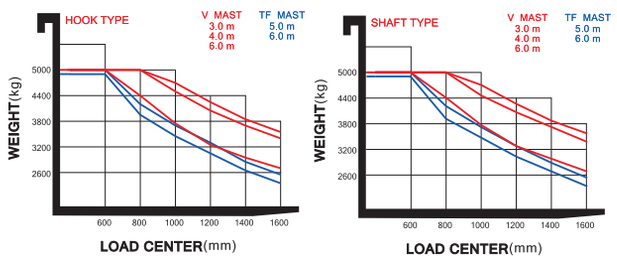
Mast Specification (70D-9) Optional: Shaft Type Fork & Carriage

Mast Type		Maximum Fork Height	Overall Height			Free Lift		Tilt Angle		Load Capacity Without Side Shift At 24 in LC	Load Capacity With Side Shift At 24 in LC	Truck Weight Unloaded
			Lowered	Extended		Without Load Backrest	With Standard Load Backrest	Fwd	Rev			
				Without Load Backrest	With Standard Load Backrest							
		in	in	in	in	in	in	deg	deg	lb	lb	lb
2-stage limited free lift	V270	107	93	-	156	-	6	15	10	15500	-	22988
	V300	119	99	-	168	-	6	15	10	15500	-	23096
	V330	131	105	-	180	-	6	15	10	15500	-	23200
	V350	139	109	-	188	-	6	15	10	15500	-	23268
	V370	147	113	-	196	-	6	15	10	15500	-	23338
	V400	159	119	-	208	-	6	15	10	15500	-	23462
	V450	178	131	-	227	-	6	15	10	15500	-	23965
	V500	198	140	-	247	-	6	15	10	15500	-	24141
	V550	218	150	-	267	-	6	15	10	15500	-	24315
	V600	237	160	-	286	-	6	15	10	15500	-	24490
	V700	277	180	-	328	-	6	15	6	15500	-	24745
3-stage full free lift	TF/TS450	180	101	-	229	-	52	15	10	15500	-	24395
	TF/TS500	199	109	-	248	-	60	15	10	15500	-	24598
	TF/TS560	220	117	-	269	-	68	15	10	15500	-	24842
	TF/TS600	239	125	-	288	-	76	15	10	14994	-	25036

New 9 Series

Load capacity

50D-9



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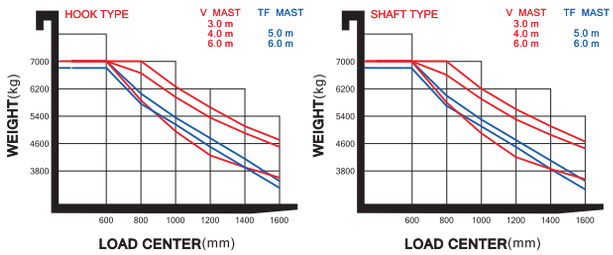


Various Attachments

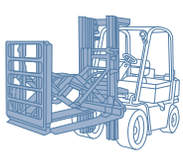
Side Shift

Hinged Fork

Hinged Bucket

Rotating Fork

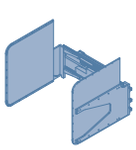
Push Pull



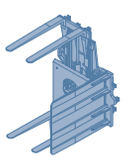
Rotating Roll Clamp

Load Stabilizer

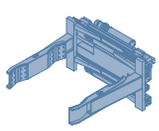
Carton Clamp



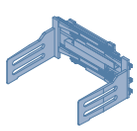
Pallet Invert



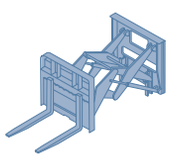
Drum Clamp



Bale Clamp



Load Extender



Fork Positioner

Optional items

- **Fork (in)**

  50/70D-9: 47 (standard), 53, 59, 71, 79, 91, 95
- **Overshoe (in)**

  50D-9: 71, 79, 87, 91

  70D-9: 71, 79, 87, 91
- **Integral side shift, Integral fork positioner, Sideshift**
- **Tire:** Solid (Superelastic) / Non-marking
- **MCV:** 2-spool, 3-spool, 5-spool
- **Seat:** Armrest, Heat, Backrest Ext., Buckle SW
- **Weight indicator**
- **Rearview camera**
- **Cabin (heater & air conditioner)**
- **Battery disconnect switch (master switch)**
- **Beacon lamp (LED) (amber, red, blue)**
- **Rear work lamp**
- **Top wiper**

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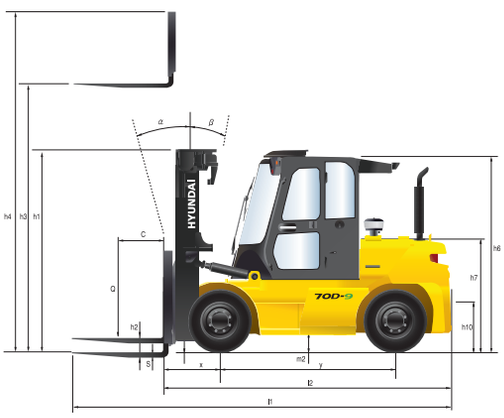
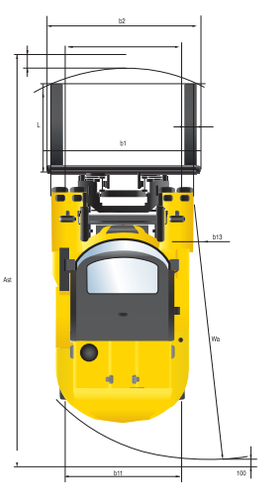
Dimensions





Specification

Identification				
1.1	Manufacturer		Hyundai	Hyundai
1.2	Manufacturer's model designation		50D-9	70D-9
1.3	Drive: electric (battery or mains), diesel, petrol, fuel gas, manual		Diesel	Diesel
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker		Seated	Seated
1.5	Load capacity / Rated load	lb	11,000	15,000
1.6	Load center distance	c in	24	24
1.8	Load distance, center of drive axle to fork	x in	24	24
1.9	Wheelbase	y in	91	91
Weights				
2.1	Service weight	lb	19,599	10,474
2.2	Axle loading, loaded front / rear	lb	26,793 / 3,730	33,347 / 5,011
2.3	Axle loading, unloaded front / rear	lb	9,941 / 9,557	9,758 / 13,166
Wheels, Chassis				
3.1	Tires: Pneumatic (P), Solid (S), Non-marking (N)		P	P
3.2	Tire size, front		82.5 x 15 - 14PR	82.5 x 15 - 14PR
3.3	Tire size, rear		82.5 x 15 - 14PR	82.5 x 15 - 14PR
3.4	Number of wheels front / rear (x = driven wheels)		4 x / 2	4 x / 2
3.5	Track width, front	in	62	62
3.6	Track width, rear	in	63	63
Basic Dimensions				
4.1	Mast / fork carriage tilt forward / backward (α / β)	degrees	15 / 10	15 / 10
4.2	Lowered mast height	h1 (in)	99	99
4.3	Free lift	h2 (in)	6	6
4.4	Lift height	h3 (in)	119	119
4.5	Extended mast height	h4 (in)	168	168
4.7	Overhead guard height (cabin)	h6 (in)	102	102
4.8	Seat height / standing height rel. to SIP	h7 (in)	61	61
4.12	Coupling height	h10 (in)	17	17
4.19	Overall length	l1 (in)	186	192
4.20	Length to face of forks	l2 (in)	138	144
4.21	Overall width	b1 (in)	82	82
4.22	Fork dimensions (hook type)	s / e / l (in)	2.4 x 5.9 x 47	2.6 x 5.9 x 47
4.23	Fork carriage ISO 2328, class / type A, B		Class IV	Class IV
4.24	Fork carriage width	b3 (in)	81	81
4.31	Ground clearance, loaded, under mast	m1 (in)	7.7	7.7
4.32	Ground clearance, center of wheelbase	m2 (in)	7.8	7.8
4.33	Aisle width for pallets 40 x 48 crossways (L x W)	Ast (in)	202	207
4.34	Aisle width for pallets 32 x 48 lengthways (W x L)	Ast (in)	210	215
4.35	Turning radius	Wa (in)	130	135
4.36	Smallest pivot point distance	b13 (in)	48	48
Performance Data				
5.1	Travel speed, unloaded	mph	21	21
5.2	Lift speed, loaded / unloaded	ft / min	87 / 91	83 / 91
5.3	Lowering speed, loaded / unloaded	ft / min	98 / 89	98 / 89
5.5	Drawbar pull, loaded	lb	16,735	16,896
5.7	Gradient performance, loaded	%	58.7	44.4
5.9	Acceleration time, loaded / unloaded (10m)	sec	-	-
5.10	Service brake		Foot (Hydraulic)	Foot (Hydraulic)
Engine				
6.1	Engine manufacturer / type		CUMMINS / QSF3.8	CUMMINS / QSF3.8
6.2	Engine power acc. to ISO 1585	hp / rpm	101 / 2,200	101 / 2,200
6.3	Maximum Torque	lb-ft / rpm	306 / 1,600	306 / 1,600
6.4	No. of cylinders / Displacement	EA / cc	4 / 3,800	4 / 3,800
6.5	Fuel consumption acc. To VDI cycle	ℓ/h	8.1	8.3
Other Details				
8.1	Type of drive control		Full Auto	Full Auto
8.2	Operating pressure, system / attach	bar	185 / 150	185 / 150
8.3	Oil volume (hydraulic)	ℓ	132	132
8.4	Sound pressure level (at driver's ear according to DIN 12053)	dB(A)	79.8	79.8
8.5	Trailer coupling, type DIN		Pin	Pin

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www.hceamericas.com

Hyundai Construction Equipment Americas, Inc.
6100 Atlantic Blvd Norcross, GA 30071
TEL (678) 823-7777 FAX (678) 823-7778

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