

50/70D-9

Diesel Counterbalance Trucks

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



■ Photo may include optional equipment



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 cab**
- **Switch type parking brake**
- **4.3 inch LCD color cluster**
- **Truck inclination warning system**
- **OPSS System for safe operation**
- **Easy serviceability**
- **Max speed limit function**
- **Password starting system**
- **Weight indicator (Optional)**
- **FATC (Full Automatic Temperature Control) (Optional)**



■ Photo may include optional equipment

High Efficiency & **Optimal Performance**



■ Photo may include optional equipment



CUMMINS QSF3.8 Engine

75 kW / 2,200 rpm

42.3 kgf·m / 1,600 rpm

Powerful Engine

The 4 cylinders turbo-charged engine is built for power, reliability and economy. This engine meets EPA Tier 4 Final and EU stage IV emission regulation.

Excellent Fuel Efficiency

Fuel consumption rate is improved than previous model.

SCR (Selective Catalytic Reduction)

EGR (Exhaust Gas Recirculation)

- High torque at low speeds
- Excellent transient behavior

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

50/70D-9



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.



Negative Parking brake system

Multi wet discs type parking brake provides effective brake performance and easy operation by switch.



Highly Durable Transmission

Powershift transmission of forward 2 stages and reverse 2 stages provides fast travel speed and quiet travel under any heavy load condition, and enhances work efficiency. The clutch protection system prevents excessive use of inching as well as minimizes change-impact.



Fully hydrostatic power steering

The hydraulic steering system always guarantees smooth and flexible steering, preventing overrun and kick-back.



Increased Mast Tilting Angle

The mast tilting angle of 15 degrees forward and 10 degrees backward, the operator can perform loading and unloading jobs safely and rapidly.



Max. Travel Speed

Model	Km / h (mph)
50D-9	33.9 (21)
70D-9	33.6 (20.8)

Max. Gradeability

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

Faster Travel Speed and 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



Spacious Operator Cabin

■ Photo may include optional equipment

The newly designed cabin provides wide visibility and spacious environment, ensuring all day comfort for the operator.



Centralized Instrument Switch Panel



Quick Response of Operating Control Levers

Only minimal operator's effort is required for precise, safe and productive control.
(4 Lever : Standard), (2/3/5 Lever : Optional)



Grammer Seat (STD)

An attractive and adjustable seat, based on a human engineering design, provides great comfort. And the angle of the armrest can be adjusted to reduce the fatigue of the driver.

- Applied the weight of the driver (45~170 kg)
- ELR type seat belt standard
- Heater and Head Rest (Option)



Optimized Pedal Position



Multi-Function Switch Lever

A design based on human engineering
relieves fatigue and increases
operator’s efficiency.

50/70D-9



New design and Concentrated Cluster Panel

1	Parking lamp	9	Hour meter	17	Rear wheel angle (option)
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-con 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	Load weight indicator(option)	16	Urea level gauge		



Full Automatic Temperature Control

The system automatically controls the temperature of a cabin to maintain the optimal working environment.



Adjustable Steering Wheel

Steering wheel with horn button can be adjusted by a lever on the right-hand side for the most comfortable operator position.



Advanced **Safety**



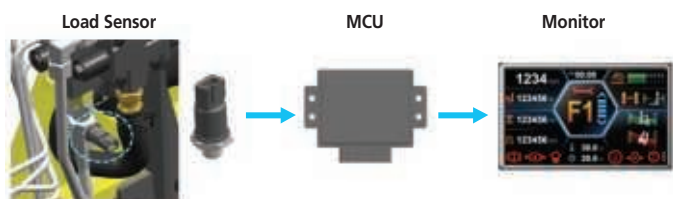
Electrical Interlock

When parking brake engaged travel electric power intercepted. Even if when forward or reverse lever operated, vehicle can't be traveled.



Adjustable Engine Low Idle RPM

While engine runs, low idle rpm can be increased by unit of 25rpm and it keeps previously set rpm when 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.



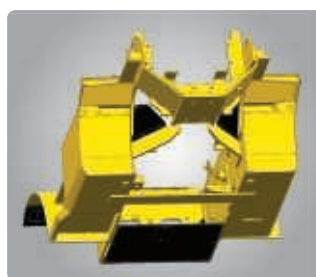
Efficient Cooling System

Aluminum radiator provides excellent cooling capacity with improved air flow.



Large Footboard & Hand Grip

Wide "open" step offers convenience and safety when entering and exiting truck.



Rear Tire Cover/Under Cover (Optional)

The cover protect the engine and components from damage caused foreign substances.



Easy and Safe Shift Lever

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

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

50/70D-9

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)

When the operator is not in the seat all mast and drive movements are impossible.



■ Photo may include optional equipment



Bright, Protected Headlights / Full lighting

In order to provide the driver exceptional visibility in all circumstances, work lamps are standard both to the front and to the back.



Expansion Bellows

Sufficient length of bellows pipe between exhaust pipe and engine exhaust manifold certifies the durability of muffler and exhaust pipe.



Grease Fittings

Grease fittings are installed for fast access to steering axle center pin when doing your service checks.

Fast and Easy Maintenance



Enlarged Engine Hood Cover

■ Photo may include optional equipment

Highly accessible engine compartment assures fast and 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 operator cab to left side about 54 degrees for access to open truck components.



Mechanic friendly Pre-Fuel Filter Replacement

Highly accessible engine compartment allows for quick replacement of filters.



Electrically Monitored Air Filter Easy-to-Access

Air cleaner sensor alerts the operator of a clogged air filter and allows replacement before damage.



Waterproof & Dustproof Cover

Newly developed Waterproof and Dustproof fuse box and relay box for ease of maintenance.

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

50/70D-9



Rear View Camera

The rear view camera makes the operation more easy and convenient.

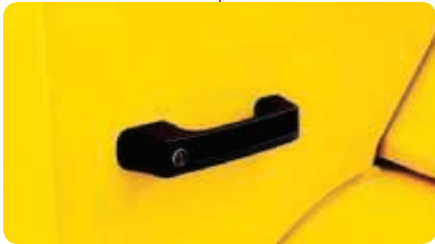
■ Photo may include optional equipment



Easy-to-Access Washer Tank



Maintenance Free Batteries



Wing Cover Locking System

New 9 Series

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

Mast Type		Maximum Fork Height		Overall Height						Free Lift				Tilt Angle		Load Capacity w/o Side Shift At 24 in (600mm)LC		Load Capacity w/ Side Shift At 24 in (600mm)LC		Truck Weight Unloaded	
				Lowered		Extended				Without Load Backrest		With Std Load Backrest		Fwd	Bwd						
						in	mm	in	mm							in	mm	in	mm	in	mm
2- Stage Limited free lift	V270	107	2730	93	2365	145	3691	158	4020	6	140	6	140	15	10	11000	5000	11000	5000	19548	8865
	*V300	119	3030	99	2515	157	3991	170	4320	6	140	6	140	15	10	11000	5000	11000	5000	19654	8913
	V330	131	3330	105	2665	169	4291	182	4620	6	140	6	140	15	10	11000	5000	11000	5000	19760	8961
	V350	139	3530	109	2765	177	4491	190	4820	6	140	6	140	15	10	11000	5000	11000	5000	19828	8992
	V370	147	3730	113	2865	185	4691	198	5020	6	140	6	140	15	10	11000	5000	11000	5000	19899	9024
	V400	159	4030	119	3015	196	4991	209	5320	6	140	6	140	15	10	11000	5000	11000	5000	20022	9080
	V450	178	4530	131	3315	216	5491	229	5820	6	140	6	140	15	10	11000	5000	11000	5000	20525	9308
	V500	198	5030	140	3565	236	5991	249	6320	6	140	6	140	15	10	11000	5000	11000	5000	20701	9388
	V550	218	5530	150	3815	256	6491	269	6820	6	140	6	140	15	10	11000	5000	11000	5000	20875	9467
	V600	237	6030	160	4065	275	6991	288	7320	6	140	6	140	15	10	11000	5000	11000	5000	21050	9546
	V700	277	7030	180	4565	315	7991	328	8320	6	140	6	140	15	6	11000	5000	10915	4950	21394	9702
3- Stage full free lift	TF/TS450	180	4560	101	2565	218	5545	229	5805	62	1580	50	1275	15	10	11000	5000	11000	5000	21006	9526
	TF/TS500	199	5060	227	5765	238	6045	248	6305	70	1780	58	1475	15	10	11000	5000	11000	5000	21208	9618
	TF/TS560	220	5600	117	2965	259	6585	269	6845	78	1980	66	1675	15	10	11000	5000	10805	4900	21453	9729
	TF/TS600	239	6060	125	3165	277	7045	288	7305	86	2180	74	1875	15	10	10805	4900	10584	4800	21647	9817

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

Mast Type		Maximum Fork Height		Overall Height						Free Lift				Tilt Angle		Load Capacity w/o Side Shift At 24 in (600mm)LC		Load Capacity w/ Side Shift At 24 in (600mm)LC		Truck Weight Unloaded	
				Lowered		Extended				Without Load Backrest		With Std Load Backrest		Fwd	Bwd						
						W/o Load Backrest		W/Std Load Backrest													
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg
2- Stage Limited free lift	V270	107	2730	93	2365	154	3911	158	4020	6	140	6	140	15	10	15500	7000	15500	7000	22798	10339
	*V300	119	3030	99	2515	166	4211	170	4320	6	140	6	140	15	10	15500	7000	15500	7000	22902	10386
	V330	131	3330	105	2665	178	4511	182	4620	6	140	6	140	15	10	15500	7000	15500	7000	23008	10434
	V350	139	3530	109	2765	185	4711	190	4820	6	140	6	140	15	10	15500	7000	15500	7000	23078	10466
	V370	147	3730	113	2865	193	4911	198	5020	6	140	6	140	15	10	15500	7000	15500	7000	23149	10498
	V400	159	4030	119	3015	205	5211	209	5320	6	140	6	140	15	10	15500	7000	15500	7000	23272	10554
	V450	178	4530	131	3315	225	5711	229	5820	6	140	6	140	15	10	15500	7000	15500	7000	23773	10781
	V500	198	5030	140	3565	245	6211	249	6320	6	140	6	140	15	10	15500	7000	15500	7000	23949	10861
	V550	218	5530	150	3815	264	6711	269	6820	6	140	6	140	15	10	15500	7000	15500	7000	24123	10940
	V600	237	6030	160	4065	284	7211	288	7320	6	140	6	140	15	10	15500	7000	15500	7000	24298	11019
	V700	277	7030	180	4568	323	8211	328	8320	6	140	6	140	15	6	15500	7000	15500	6900	24644	11176
3- Stage full free lift	TF/TS450	180	4560	101	2565	227	5765	229	5805	54	1360	50	1275	15	10	15500	7000	15500	7000	24368	11051
	TF/TS500	199	5060	109	2765	247	6265	248	6305	61	1560	58	1475	15	10	15500	7000	15500	7000	24571	11143
	TF/TS560	220	5600	117	2965	268	6805	269	6845	69	1760	66	1675	15	10	15500	7000	15215	6900	24816	11254
	TF/TS600	239	6060	125	3165	286	7265	288	7305	77	1960	74	1875	15	10	14994	6800	14774	6700	25010	11342

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

Mast Type		Maximum Fork Height		Overall Height						Free Lift				Tilt Angle		Load Capacity w/o Side Shift At 24 in (600mm)LC		Load Capacity w/ Side Shift At 24 in (600mm)LC		Truck Weight Unloaded	
				Lowered		Extended				Without Load Backrest		With Std Load Backrest		Fwd	Bwd						
						W/o Load Backrest		W/Std Load Backrest													
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg
2- Stage Limited free lift	V270	107	2730	93	2365	-	-	156	3975	-	-	6	140	15	10	11000	5000	-	-	19497	8842
	*V300	119	3030	99	2515	-	-	168	4275	-	-	6	140	15	10	11000	5000	-	-	19603	8890
	V330	131	3330	105	2665	-	-	180	4575	-	-	6	140	15	10	11000	5000	-	-	19709	8938
	V350	139	3530	109	2765	-	-	188	4775	-	-	6	140	15	10	11000	5000	-	-	19777	8969
	V370	147	3730	113	2865	-	-	196	4975	-	-	6	140	15	10	11000	5000	-	-	19848	9001
	V400	159	4030	119	3015	-	-	208	5275	-	-	6	140	15	10	11000	5000	-	-	19971	9057
	V450	178	4530	131	3315	-	-	227	5775	-	-	6	140	15	10	11000	5000	-	-	20474	9285
	V500	198	5030	140	3565	-	-	247	6275	-	-	6	140	15	10	11000	5000	-	-	20650	9365
	V550	218	5530	150	3815	-	-	267	6775	-	-	6	140	15	10	11000	5000	-	-	20825	9444
	V600	237	6030	160	4065	-	-	286	7275	-	-	6	140	15	10	11000	5000	-	-	20999	9523
	V700	277	7030	180	4565	-	-	328	8320	-	-	6	140	15	6	11000	5000	-	-	21343	9679
3- Stage full free lift	TF/TS450	180	4560	101	2565	-	-	229	5805	-	-	52	1320	15	10	11000	5000	-	-	20853	9457
	TF/TS500	199	5060	227	5765	-	-	248	6305	-	-	60	1520	15	10	11000	5000	-	-	21056	9549
	TF/TS560	220	5600	117	2965	-	-	269	6845	-	-	68	1720	15	10	11000	5000	-	-	21301	9660
	TF/TS600	239	6060	125	3165	-	-	288	7305	-	-	76	1920	15	10	10805	4900	-	-	21495	9748

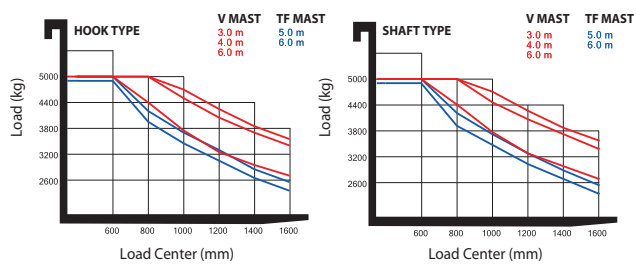
Mast Specification (70D-9) OPT : Shaft Type Fork & Carriage

Mast Type		Maximum Fork Height		Overall Height						Free Lift				Tilt Angle		Load Capacity w/o Side Shift At 24 in (600mm)LC		Load Capacity w/ Side Shift At 24 in (600mm)LC		Truck Weight Unloaded	
				Lowered		Extended				Without Load Backrest		With Std Load Backrest		Fwd	Bwd						
						W/o Load Backrest		W/Std Load Backrest													
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	deg	deg	lb	kg	lb	kg	lb	kg
2- Stage Limited free lift	V270	107	2730	93	2365	-	-	156	3975	-	-	6	140	15	10	15500	7000	-	-	22988	10425
	*V300	119	3030	99	2515	-	-	168	4275	-	-	6	140	15	10	15500	7000	-	-	23096	10474
	V330	131	3330	105	2665	-	-	180	4575	-	-	6	140	15	10	15500	7000	-	-	23200	10521
	V350	139	3530	109	2765	-	-	188	4775	-	-	6	140	15	10	15500	7000	-	-	23268	10552
	V370	147	3730	113	2865	-	-	196	4975	-	-	6	140	15	10	15500	7000	-	-	23338	10584
	V400	159	4030	119	3015	-	-	208	5275	-	-	6	140	15	10	15500	7000	-	-	23462	10640
	V450	178	4530	131	3315	-	-	227	5775	-	-	6	140	15	10	15500	7000	-	-	23965	10868
	V500	198	5030	140	3565	-	-	247	6275	-	-	6	140	15	10	15500	7000	-	-	24141	10948
	V550	218	5530	150	3815	-	-	267	6775	-	-	6	140	15	10	15500	7000	-	-	24315	11027
	V600	237	6030	160	4065	-	-	286	7275	-	-	6	140	15	10	15500	7000	-	-	24490	11106
	V700	277	7030	180	4565	-	-	328	8320	-	-	6	140	15	6	15500	7000	-	-	24745	11222
3- Stage full free lift	TF/TS450	180	4560	101	2565	-	-	229	5805	-	-	52	1320	15	10	15500	7000	-	-	24395	11063
	TF/TS500	199	5060	109	2765	-	-	248	6305	-	-	60	1520	15	10	15500	7000	-	-	24598	11155
	TF/TS560	220	5600	117	2965	-	-	269	6845	-	-	68	1720	15	10	15500	7000	-	-	24842	11266
	TF/TS600	239	6060	125	3165	-	-	288	7305	-	-	76	1920	15	10	14994	6800	-	-	25036	11354

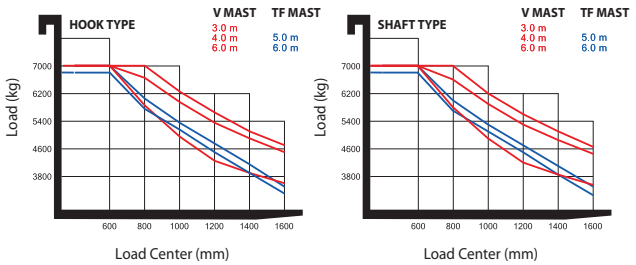
New 9 Series

Load Capacity

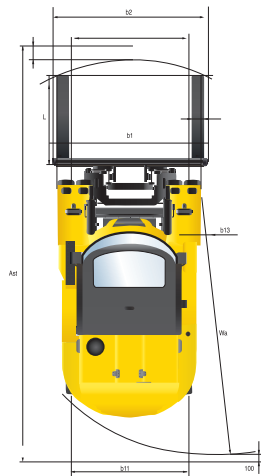
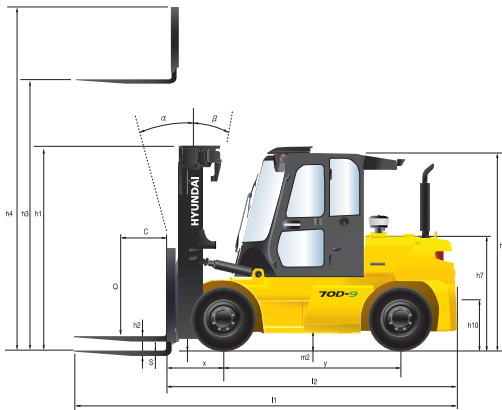
50D-9



70D-9



Dimensions



Specifications

Identification				
1.1	Manufacturer	HYUNDAI		
1.2	Type	50D-9	70D-9	
1.3	Drive: Electric, Diesel, LPG Gas	Diesel	Diesel	
1.4	Type of operation: hand, pedestrian, standing, seated, order-picker	seated	seated	
1.5	Load capacity / Rated load	Q (kg)	5,000	7,000
1.6	Load center distance	c (mm)	600	600
1.8	Load distance, center of drive axle to forks	x (mm)	610	610
1.9	Wheelbase	y (mm)	2,300	2,300
Weights				
2.1	Service weight	kg	8,890	10,474
2.2	Axle loading, loaded front / rear	kg	12,153 / 1,692	15,126 / 2,273
2.3	Axle loading, unloaded front / rear	kg	4,509 / 4,335	4,426 / 5,972
Wheels, Chassis				
3.1	Tires : Pneumatic(P), Solid(S), Non-marking(N)	P	P	
3.2	Tires size, front	8.25-15-14PR	8.25-15-14PR	
3.3	Tires size, rear	8.25-15-14PR	8.25-15-14PR	
3.5	Wheels, number front / rear (x = driven wheels)	4 x / 2	4 x / 2	
3.6	Track width, front	b10 (mm)	1,580	1,580
3.7	Track width, rear	b11 (mm)	1,604	1,604
Basic Dimensions				
4.1	Mast / fork carriage tilt forward / backward (α / β)	degrees	15 / 10	15 / 10
4.2	Lowered mast height	h1 (mm)	2,515	2,515
4.3	Free lift	h2 (mm)	140	140
4.4	Lift height (standard)	h3 (mm)	3,030	3,030
4.5	Extended mast height	h4 (mm)	4,275	4,275
4.7	Overhead load guard (cabin) height	h5 (mm)	2,597	2,597
4.8	Seat height / standing height rel. to SIP	h7 (mm)	1,551	1,551
4.12	Coupling height	h10 (mm)	425	425
4.19	Overall length	l1 (mm)	4,716	4,866
4.20	Length to face of forks	l2 (mm)	3,516	3,666
4.21	Overall width	b1 (mm)	2,088	2,088
4.22	Fork dimensions (hook type) LxWxT	s / e / l (mm)	60 x 150 x 1,200	65 x 150 x 1,200
4.23	Fork carriage ISO 2328, class / type A,B		Class IV	Class IV
4.24	Fork carriage width	b3 (mm)	2,068	2,068
4.31	Ground clearance, loaded, under mast	m1 (mm)	195	195
4.32	Ground clearance, centre of wheelbase	m2 (mm)	199	191
4.33	Aisle width for pallets 1000 x 1200 crossways (L x W)	Ast (mm)	5,129	5,251
4.34	Aisle width for pallets 800 x 1200 lengthways (W x L)	Ast (mm)	5,329	5,451
4.35	Turning radius	Wa (mm)	3,314	3,436
4.36	Smallest pivot point distance	b13 (mm)	1,224	1,224
Performance Data				
5.1	Travel speed, unloaded	km/h	33.9	33.6
5.2	Lift speed, loaded / unloaded	mm/s	440 / 460	420 / 460
5.3	Lowering speed, loaded / unloaded	mm/s	500 / 450	500 / 450
5.5	Drawbar pull, loaded	kg	7,591	7,664
5.7	Gradient performance, loaded	%	58.7	44.4
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	kW (ps)/rpm	75 (102) / 2,200	75 (102) / 2,200
6.3	Maximum Torque	kg.f.m/rpm	42.3 / 1,600	42.3 / 1,600
6.4	No. of cylinder / cubic capacity	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/attachments)	bar	185 / 150	185 / 150
8.3	Hydraulic oil flow (attachments)	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

- * Standard and optional equipment may vary per country. Contact your Hyundai dealer for more information.
- * The photos may include attachments and optional equipment that are not available in your area.
- * Materials and specifications are subject to change without advance notice.
- * All imperial measurements rounded off to the nearest pound or inch.



PLEASE CONTACT