

14/16/20/25BRJ-9

Electric Reach Trucks

MOVING YOU FURTHER

HYUNDAI HEAVY INDUSTRIES



■ Photo may include optional equipment

 **HYUNDAI**

Your satisfaction is **our priority!**

Hyundai introduces a new line of **9-series** battery forklift trucks. The newly designed sit-on reach trucks provide every operator comfortable driving, increased productivity and easy maintenance.



■ Photo may include optional equipment

Compact forklift with proven AC technology

- **Maximum performance**
- **Comfortable operating room**
- **Curve control system**
- **Load indicator (optional)**
- **Camera (optional)**
- **Auto Tilt Levelling (optional)**



Superior Power & **Optimal Performance**



Minimum Turning Radius

Compact design suitable for narrow aisle operation guarantees work efficiency and maximum space utilization.



Versatile Reach Stroke

Multi-roller reach assembly provides for a smooth, controlled and safe load handling system, extended reach allows unsurpassed versatility.

■ Photo may include optional equipment

Efficient, smooth running and powerful performance make your work more productive.

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Automatic Center Position at Starting

When the key ON, prox switch detects the position of drive wheel, and the wheel turns to the center position automatically.



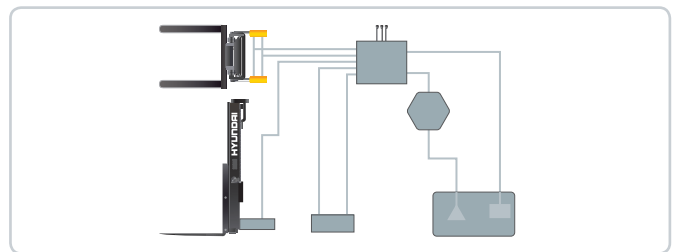
Electro Magnetic Brake

Increased brake torque and brake stability by electromagnetic load wheel brake.



Forward/Reverse (FWD/REV) Switch

The Forward/Reverse control provides the operator with precise and smooth directional control.



State-of-the-art Hydraulic System

The latest large-capacity hydraulic system reacts quickly during operation and the low noise control valve increases both efficiency and durability.



Drive Motor & Pump Motor

Efficient AC motor guarantees reliability and an optimized motor design provides for low noise levels. Temperature sensor ensures long motor life.



High Technology ZAPI Controller

The efficient, almost noiseless, 8kHz (high frequency) controller provides smooth quiet operation and protection for low & high voltage, overheating and fault recording.

Energy Efficiency

- H (High) mode: 100%
- N (Normal) mode: 110%
- E (Economic) mode: 120%

Reach Cutback Control

Reach cutback control system reduces a reach in/out speed automatically at reach in/out end to suppress a shock and to secure a user safety & comfort

Traction Speed Cutback

Traction speed will be reduced automatically in case of mast going higher than free cylinder section for better user safety

End-Tip Cut Back

Lift speed will be reduced automatically at 100mm prior to lift-end to suppress a shock for securing a user safety & comfort



Excellent Grade-ability Operation & Anti Roll Back

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

Optimised Ergonomics & **Advanced Safety**



■ Photo may include optional equipment



Newly Designed Steer Control Handle

A newly designed steering control coupled with our new Electric Power Steering control gives the operator exceptionally smooth and controlled steering for tight spaces.



Proportional Fingertip Control

Minimal operator effort is required for precise, safe and productive control. The operator can control the machine very easily at fingertip.



Non-Slip Floor Mat

A heavy, vibration dampening, non-slip floor mat reduces operator fatigue and allows for increased productivity.



Break Pedal

Smother breaking is assured by the balanced design of the pedal and maintenance costs are lowered, as the cover is easily replaceable.

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

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Excellent visibility for safe operation

Optimized lift cylinder arrangement provides operator with wider visibility.



Strong Overhead Guard

The safety overhead guard meets ISO 6055 and ANSI regulations and protects the operator during hazardous work.



Headrest Cushion Pad

A large and soft cushion pad is positioned for operator's safety and comfort.



Cup Holder, Console Box & Storage Space

Additional storage spaces are located inside the operating space for operator's convenience.



Comfortable Operator Environment

A practically designed full suspension seat is fully adjustable for optimum operating position, reducing operating fatigue. *Fabric seat (STD), PVC seat (optional)



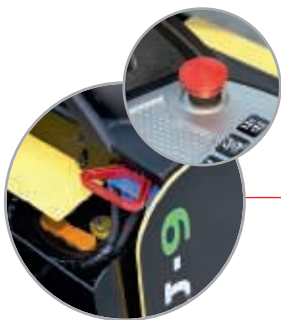
Camera & LCD monitor (optional)

A camera installed on fork side provides the operator with another excellent visibility. (Apply to mast over TF700)



Durability, Easy Maintenance

Maintenance



Battery Disconnect Lever & Emergency Switch



Easy Battery Replacement



Concentrated Fuse Box for Easy Inspection



DC-DC Converter

DC-DC converter satisfied with UL & CE prevents from short circuit overload and reverse polarity.



Reliable MOSFET Type Controller



Hydraulic Filter

■ Photo may include optional equipment

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

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Advanced LCD Monitor

Steering Wheel Position and running direction

Turtle mode

Speed (Digital)

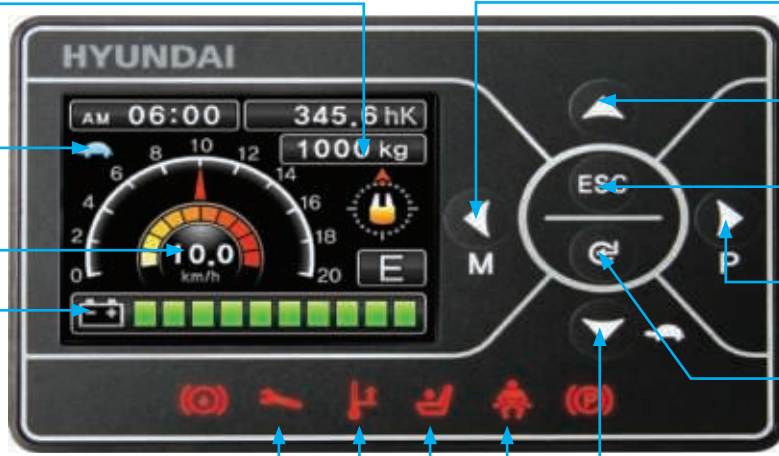
Battery's state of charge

Wrench warning lamp

Thermometer warning lamp

Seat warning lamp

Seat belt warning lamp



Key3 button
(Set down/Menu)

Key1 button
(Roll up)

Key5 button
(ESC Out)

Key4 button
(Set up/Performance)

Key6 button
(Enter)

Key2 button
(Roll down/Turtle)

The LCD colour monitor with 3.5-inch graphic smart display allows the operator to easily and efficiently control the machine. The monitor provides information about speed & accelerator level, steer angle & travel direction, battery discharge indicator, hour meter & working mode. The optional load indicator displays the load weight in the monitor. The optional indicator displays the height of fork in the monitor. The operator can select various performance modes to meet all working conditions. It is available multi-languages (maximum 11) for operator.

The monitor also displays information about operation error, system fault, battery level, hour meter plus other various functions. It enables the operator to maintain the forklift in optimum operating condition.

H (High) mode **N** (Normal) mode **E** (Economic) mode

Turtle mode



Easy maintenance

Hinged good makes daily maintenance easy and convenient.



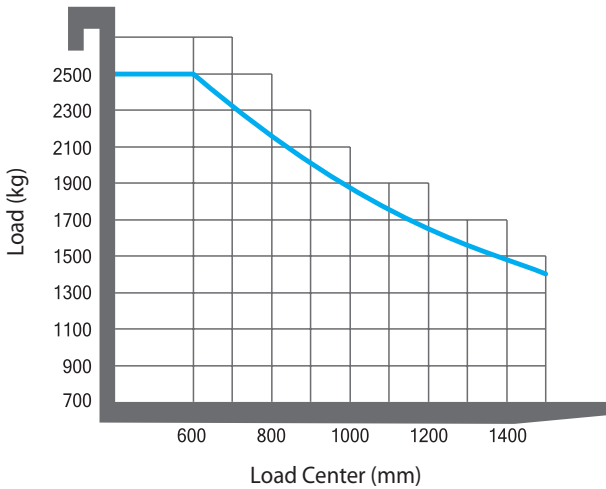
LCD Monitor (Option for Height Indicator)

New 9 Series

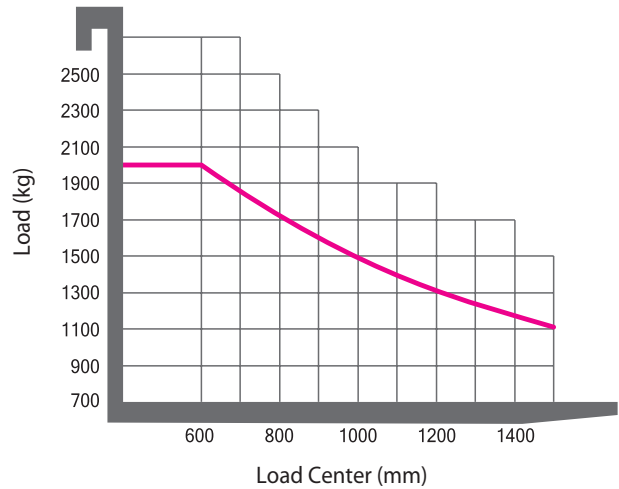
Load Capacity

Model	Mast	Battery weight
14/16BRJ-9	TF530	750 kg
20/25BRJ-9	TF530	940 kg

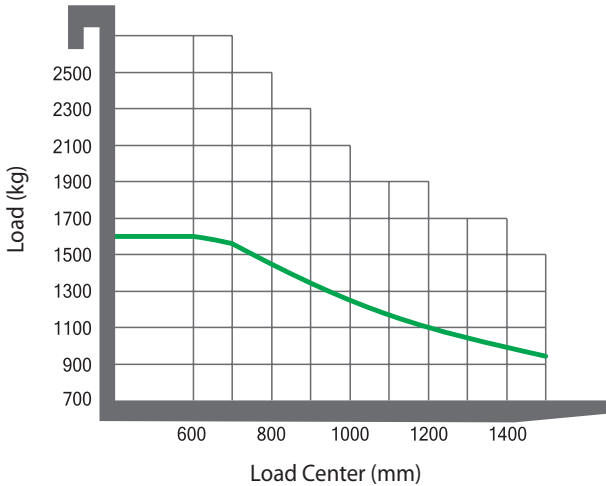
25BRJ-9



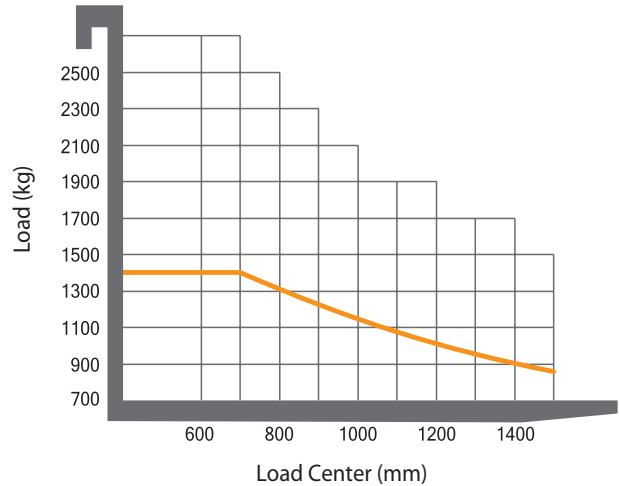
20BRJ-9



16BRJ-9



14BRJ-9



Optional Items

- UL (ES)
- Beacon Lamp (LED / bulb) - Amber, Blue, Red
- Fork Camera, Carriage Camera
- Cold Storage
- Work Lamp (LED)
- Rear Lamp (LED, Bulb)
- Auto Tilt Levelling
- Load Indicator
- Battery

- Charger 3Phrases 220 / 380V, 410V, 440V
- Joystick Lever
- Fork Height Indicator & Preselect
- Fork (mm)
 - 14/16BRJ-9: 900; 950; 1000; 1050; 1150; 1200 (STD); 1350; 1500; 1600
 - 20/25BRJ-9: 1000; 1050; 1200 (STD); 1350; 1500; 1650; 1800
- Sideshift: Max. 140 mm
- Tire: Urethane (STD), Vulkollan (Optional)
- Seat: Fabric (STD), PVC (optional)

Mast Specification (14/16BRJ-9)

Mast Type	Maximum Fork Height		Overall Height (Lowered)		Overall height (Lifted)				Free Lift Height				Tilt Angle		Truck Weight (Unloaded)						
					With Load Backrest		Without Load Backrest		With Load Backrest		Without Load Backrest		Fwd	Bwd							
	14/16BRJ-9																		14BRJ-9		16BRJ-9
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	Degree		lb	kg	lb	kg		
3-STAGE FULL FREE LIFT	TF430	170.9	4340	79.1	2009	244.4	5370	190.8	4846	38.5	979	56.0	1422	2	5	6786	3078	6991	3171		
	TF470	186.6	4740	85.0	2159	227.2	5770	206.5	5246	44.4	1129	61.9	1572	2	5	6878	3120	7083	3213		
	*TF530	208.9	5306	92.4	2348	249.4	6336	228.8	5812	51.9	1318	69.3	1761	2	5	6980	3166	7185	3259		
	TF550	218.1	5540	96.8	2459	258.7	6570	238.0	6046	56.3	1429	73.7	1872	2	5	7068	3206	7273	3299		
	TF600	237.8	6040	104.7	2659	278.3	7070	257.7	6546	64.1	1629	81.6	2072	2	5	7196	3264	7401	3357		
	TF650	257.5	6540	112.6	2859	298.0	7570	277.4	7046	72.0	1829	89.4	2272	2	5	7606	3450	7811	3543		
	TF700	275.8	7006	118.7	3014	316.4	8036	295.7	7512	78.1	1984	95.5	2427	2	5	7670	3479	7875	3572		
	TF750	295.5	7506	122.3	3106	336.1	8536	315.4	8012	81.7	2076	99.2	2519	2	5	7727	3505	7932	3598		
	TF800	315.2	8006	130.2	3306	355.7	9036	335.1	8512	89.6	2276	107.0	2719	2	5	7864	3567	8069	3660		
	TF850	334.9	8506	136.7	3473	375.4	9536	354.8	9012	96.2	2443	113.6	2886	2	5	8060	3656	8265	3749		
	TF900	354.6	9006	143.3	3640	395.1	10036	374.5	9512	102.8	2610	120.2	3053	2	5	8172	3707	8377	3800		
	TF950	374.3	9506	149.9	3807	414.8	10536	394.2	10012	109.3	2777	126.8	3220	2	5	8285	3758	8490	3851		
	TF1000	393.9	10006	157.8	4007	434.5	11036	413.9	10512	117.2	2977	134.6	3420	2	5	8474	3844	8680	3937		
	TF1050	413.6	10506	164.3	4174	454.2	11536	433.5	11012	123.8	3144	141.2	3587	2	5	8587	3895	8792	3988		

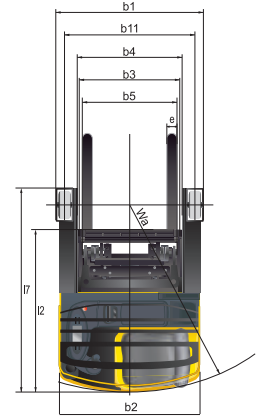
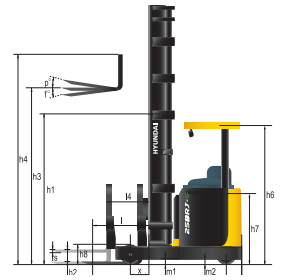
Mast Specification (20/25BRJ-9)

Mast Type	Maximum Fork Height		Overall Height (Lowered)		Overall height (Lifted)				Free Lift Height				Tilt Angle		Truck Weight (Unloaded)						
					With Load Backrest		Without Load Backrest		With Load Backrest		Without Load Backrest		Fwd	Bwd							
	20/25BRJ-9																		20BRJ-9		25BRJ-9
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	Degree		lb	kg	lb	kg		
3-STAGE FULL FREE LIFT	TF430	169.5	4305	80.2	2036	212.8	5406	195.8	4974	36.8	935	53.8	1367	2	5	8190	3715	8686	3940		
	TF470	185.2	4705	86.1	2186	228.6	5806	211.6	5374	42.7	1085	59.7	1517	2	5	8280	3756	8779	3982		
	*TF530	208.9	5305	93.9	2386	252.2	6406	235.2	5974	50.6	1285	67.6	1717	2	5	8375	3799	8874	4025		
	TF570	224.6	5705	99.2	2519	268.0	6806	250.9	6374	55.8	1418	72.8	1850	2	5	8472	3843	8971	4069		
	TF630	248.2	6305	108.0	2744	291.6	7406	274.6	6974	64.7	1643	81.7	2075	2	5	8607	3904	9103	4129		
	TF670	264.0	6705	113.3	2877	307.3	7806	290.3	7374	69.9	1776	86.9	2208	2	5	9039	4100	9535	4325		
	TF700	275.8	7005	117.2	2977	319.1	8106	302.1	7674	73.9	1876	90.9	2308	2	5	9112	4133	9608	4358		
	TF750	295.5	7505	123.8	3144	338.8	8606	321.8	8174	80.4	2043	97.4	2475	2	5	9233	4188	9729	4413		
	TF800	315.2	8005	131.3	3336	358.5	9106	341.5	8674	88.0	2235	105.0	2667	2	5	9372	4251	9870	4477		
	TF850	334.9	8507	137.9	3503	378.3	9608	361.3	9176	94.6	2402	111.6	2834	2	5	9594	4352	10090	4577		
	TF900	354.6	9007	144.5	3670	398.0	10108	380.9	9676	101.1	2569	118.1	3001	2	5	9716	4407	10214	4633		
	TF950	374.4	9509	151.1	3837	417.7	10610	400.7	10178	107.7	2736	124.7	3168	2	5	9839	4463	10335	4688		
	TF1000	394.0	10007	158.6	4029	437.3	11108	420.3	10676	115.3	2928	132.3	3360	2	5	9978	4526	10476	4752		
	TF1050	413.7	10507	165.2	4196	457.0	11608	440.0	11176	121.9	3095	138.9	3527	2	5	10203	4628	10699	4853		
	TF1100	433.3	11007	171.8	4363	476.7	12108	459.7	11676	128.4	3262	145.4	3694	2	5	10318	4680	10814	4905		
	TF1150	453.0	11507	179.3	4555	496.4	12608	479.4	12176	136.0	3454	153.0	3886	2	5	10456	4743	10955	4969		
TF1200	472.7	12007	185.9	4722	516.1	13108	499.1	12676	142.6	3621	159.6	4053	2	5	10578	4798	11074	5023			

* Standard

Technical Data 14/16/20/25BRJ-9

		Hyundai		Hyundai		
		14BRJ-9	16BRJ-9	20BRJ-9	25BRJ-9	
Identification	1.1	Manufacturer	Hyundai		Hyundai	
	1.2	Manufacturer's model designation	14BRJ-9	16BRJ-9	20BRJ-9	25BRJ-9
	1.3	Power supply (electric, diesel, petrol, gas, manual)	Electric	Electric	Electric	Electric
	1.4	Type of operation (hand, pedestrian, standing, seated, order-picker)	Seated	Seated	Seated	Seated
	1.5	Load capacity / rated load	Q (kg) 1400	1600	2000	2500
	1.6	Load center distance	c (mm) 600	600	600	600
	1.8	Load distance, center of drive axle (Load wheel) to fork	x (mm) 314	364	340	490
	1.9	Wheelbase	y (mm) 1410	1460	1520	1670
	Weights	2.1	Service weight (Incl. battery)	kg 3166	3259	3799
2.3		Axle loading, reach in, unloaded front (drive) / rear (load)	kg 1896 / 1270	2015 / 1244	2247 / 1552	2537 / 1488
2.4		Axle loading, reach out, loaded front (drive) / rear (load)	kg 602 / 3964	610 / 4249	631 / 5168	688 / 5837
2.4		Axle loading, reach in, loaded front (drive) / rear (load)	kg 1612 / 2954	1756 / 3103	1905 / 3895	2372 / 4152
Wheels, chassis	3.1	Tires: solid rubber (V), super-elastic (SE), pneumatic (P), polyurethane (PE)	PE	PE	PE	PE
	3.2	Tires size, front (Ø x width)	305 x 140	305 x 140	345 x 140	345 x 140
	3.3	Tires size, rear (Ø x width)	285 x 100	285 x 100	355 x 106	355 x 135
	3.5	Wheels, numbers (x=driven wheels), front (drive) / rear (load)	1x/2	1x/2	1x/2	1x/2
	3.6	Track width, front (drive)	b10 (mm) 0	0	0	0
	3.7	Track width, rear (load)	b11 (mm) 1149	1149	1155	1184
	Basic dimensions	4.1	Mast / fork carriage tilt forward / backward	degrees 2 / 5	2 / 5	2 / 5
4.2		Lowered mast height	h1 (mm) 2348	2348	2386	2386
4.3		Free lift (without backrest)	h2 (mm) 1761	1761	1717	1717
4.4		Lift height	h3 (mm) 5306	5306	5305	5305
4.5		Extended mast height (without backrest)	h4 (mm) 5812	5812	5974	5974
4.7		Overhead load guard (cab) height	h6 (mm) 2116	2116	2135	2135
4.8		Seat height / standing height	h7 (mm) 922	922	942	942
4.10		Height of wheel arms	h8 (mm) 303	303	374	374
4.19		Overall length (Reach In, Fork End)	l1 (mm) 2511	2511	2595	2595
4.20		Length to face of forks (Reach In)	l2 (mm) 1311	1311	1395	1395
4.21		Overall width	b1/b2 (mm) 1279 / 1270	1279 / 1270	1291 / 1270	1349 / 1270
4.22		Fork dimensions (hook type)	s / e / l (mm) 40 x 100 x 1200	40 x 100 x 1200	45 x 100 x 1200	45 x 100 x 1200
4.23		Fork carriage ISO 2328, class/type A, B	2A	2A	2B	2B
4.24		Fork-carriage width	b3 (mm) 800	800	800	800
4.25		Overall fork width	b5 (mm) 732	732	732	732
4.26		Distance between support arms	b4 (mm) 951	951	951	951
4.28		Reach Stroke	l4 (mm) 504	554	544	692
4.31	Ground clearance, loaded, under mast	m1 (mm) 91	91	109	109	
4.32	Ground clearance, centre of wheelbase	m2 (mm) 56	58	71	77	
4.33	Aisle width for pallets 1000x1200 crossways	Ast (mm) 2749	2759	2834	2872	
4.34	Aisle width for pallets 800x1200 lengthways	Ast (mm) 2810	2812	2890	2900	
4.35	Turning radius	Wa (mm) 1638	1685	1742	1885	
4.37	Length across wheel arms	l7 (mm) 1790	1860	1935	2085	
Performance data	5.1	Travel speed, unloaded	km/h 14	14	14	14
	5.2	Lift speed, loaded / unloaded	mm/s 0.37 / 0.58	0.37 / 0.58	0.3 / 0.47	0.3 / 0.47
	5.3	Lowering speed, loaded / unloaded	mm/s 0.5 / 0.45	0.5 / 0.45	0.5 / 0.45	0.5 / 0.45
	5.6	Max. drawbar pull, loaded / unloaded S2 5min	N 580 / 610	570 / 600	710 / 750	700 / 750
	5.8	Max. gradient performance, loaded / unloaded S2 5min	% 13 / 18	12 / 18	12 / 19	11 / 18
	5.10	Service brake	electric	electric	electric	electric
E - Motor	6.1	Drive motor rating S2 60min	kW 7.5	7.5	7.5	7.5
	6.2	Lift motor rating at S2 5min	kW 14	14	14	14
	6.3	Battery acc. to DIN 43531/ 35/ 36 A, B, C, no	DIN43531	DIN43531	DIN43531	DIN43531
	6.4	Battery voltage, nominal capacity K5	V/Ah 48 / 420	48 / 420	48 / 560	48 / 560
	6.5	Battery weight (min)	kg 750	750	940	940
	Battery dimensions L/W/H	mm 1223 / 283 / 787	1223 / 283 / 787	1223 / 353 / 787	1223 / 353 / 787	
Details	8.1	Type of drive control	AC Mosfet	AC Mosfet	AC Mosfet	AC Mosfet
	8.2	Operating pressure for attachments	bar 160	170	170	190
	8.3	Oil volume for attachments	ℓ/min 25	25	25	25
	8.4	Sound level at driver's ear according to DIN 12 053	db(A) 70	70	70	70



- * 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



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