SECTION 1 GENERAL

Group	1	Safety Hints	1-1
Group	2	Specifications	1-10

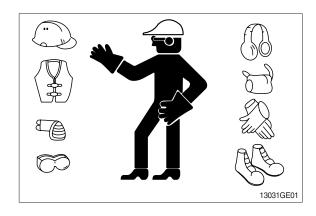
GROUP 1 SAFETY

FOLLOW SAFE PROCEDURE

Unsafe work practices are dangerous. Understand service procedure before doing work; Do not attempt shortcuts.

WEAR PROTECTIVE CLOTHING

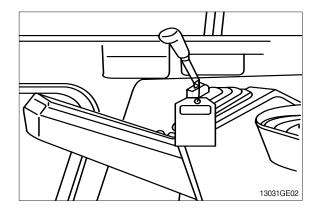
Wear close fitting clothing and safety equipment appropriate to the job.



WARN OTHERS OF SERVICE WORK

Unexpected machine movement can cause serious injury.

Before performing any work on the excavator, attach a 「Do Not Operate」 tag on the right side control lever.



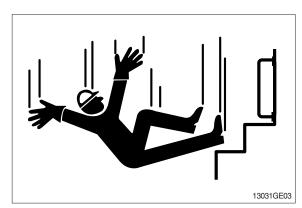
USE HANDHOLDS AND STEPS

Falling is one of the major causes of personal injury.

When you get on and off the machine, always maintain a three point contact with the steps and handrails and face the machine. Do not use any controls as handholds.

Never jump on or off the machine. Never mount or dismount a moving machine.

Be careful of slippery conditions on platforms, steps, and handrails when leaving the machine.

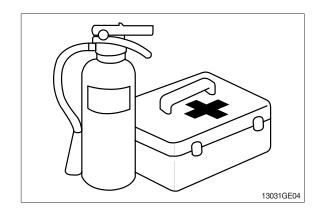


PREPARE FOR EMERGENCIES

Be prepared if a fire starts.

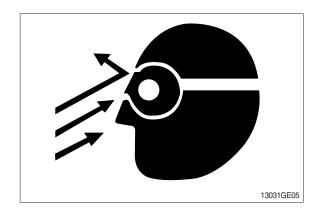
Keep a first aid kit and fire extinguisher handy.

Keep emergency numbers for doctors, ambulance service, hospital, and fire department near your telephone.



PROTECT AGAINST FLYING DEBRIS

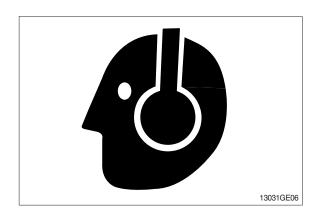
Guard against injury from flying pieces of metal or debris; Wear goggles or safety glasses.



PROTECT AGAINST NOISE

Prolonged exposure to loud noise can cause impairment or loss of hearing.

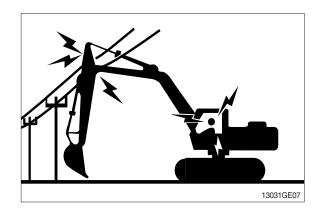
Wear a suitable hearing protective device such as earmuffs or earplugs to protect against objectionable or uncomfortable loud noises.



AVOID POWER LINES

Serious injury or death can result from contact with electric lines.

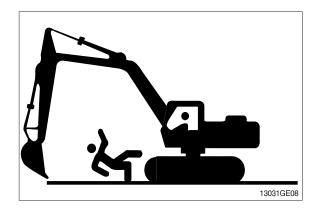
Never move any part of the machine or load closer to electric line than 3m(10ft) plus twice the line insulator length.



KEEP RIDERS OFF EXCAVATOR

Only allow the operator on the excavator. Keep riders off.

Riders on excavator are subject to injury such as being struck by foreign objects and being thrown off the excavator. Riders also obstruct the operator's view resulting in the excavator being operated in an unsafe manner.

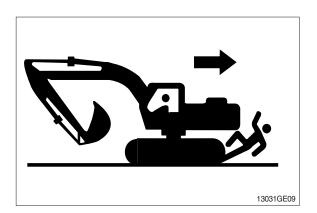


MOVE AND OPERATE MACHINE SAFELY

Bystanders can be run over. Know the location of bystanders before moving, swinging, or operating the machine.

Always keep the travel alarm in working condition. It warns people when the excavator starts to move.

Use a signal person when moving, swinging, or operating the machine in congested areas. Coordinate hand signals before starting the excavator.



OPERATE ONLY FORM OPERATOR'S SEAT

Avoid possible injury machine damage. Do not start engine by shorting across starter terminals.

NEVER start engine while standing on ground. Start engine only from operator's seat.



PARK MACHINE SAFELY

Before working on the machine:

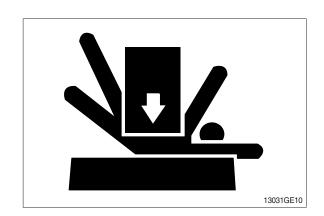
- · Park machine on a level surface.
- · Lower bucket to the ground.
- · Turn auto idle switch off.
- · Run engine at 1/2 speed without load for 2 minutes.
- Turn key switch to OFF to stop engine. Remove key from switch.
- · Move pilot control shutoff lever to locked position.
- · Allow engine to cool.

SUPPORT MACHINE PROPERLY

Always lower the attachment or implement to the ground before you work on the machine. If you must work on a lifted machine or attachment, securely support the machine or attachment.

Do not support the machine on cinder blocks, hollow tiles, or props that may crumble under continuous load.

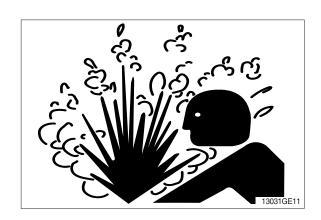
Do not work under a machine that is supported solely by a jack. Follow recommended procedures in this manual.



SERVICE COOLING SYSTEM SAFELY

Explosive release of fluids from pressurized cooling system can cause serious burns.

Shut off engine. Only remove filler cap when cool enough to touch with bare hands.



HANDLE FLUIDS SAFELY-AVOID FIRES

Handle fuel with care; It is highly flammable. Do not refuel the machine while smoking or when near open flame or sparks. Always stop engine before refueling machine.

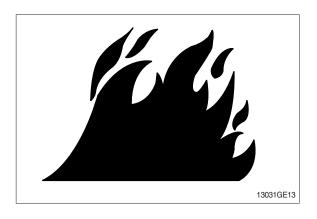
Fill fuel tank outdoors.



Store flammable fluids away from fire hazards. Do not incinerate or puncture pressurized containers.

Make sure machine is clean of trash, grease, and debris.

Do not store oily rags; They can ignite and burn spontaneously.



BEWARE OF EXHAUST FUMES

Prevent asphyxiation. Engine exhaust fumes can cause sickness or death.

If you must operate in a building, be positive there is adequate ventilation. Either use an exhaust pipe extension to remove the exhaust fumes or open doors and windows to bring enough outside air into the area.

REMOVE PAINT BEFORE WELDING OR HEATING

Avoid potentially toxic fumes and dust.

Hazardous fumes can be generated when paint is heated by welding, soldering, or using a torch.

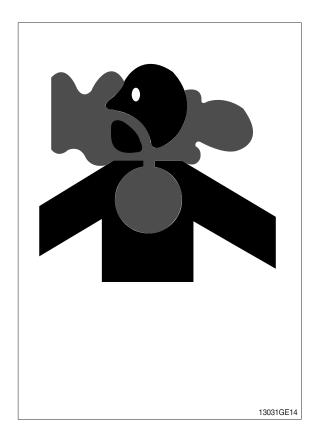
Do all work outside or in a well ventilated area. Dispose of paint and solvent properly.

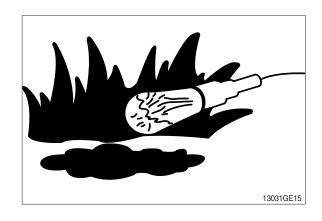
Remove paint before welding or heating:

- If you sand or grind paint, avoid breathing the dust.
 - Wear an approved respirator.
- · If you use solvent or paint stripper, remove stripper with soap and water before welding. Remove solvent or paint stripper containers and other flammable material from area. Allow fumes to disperse at least 15 minutes before welding or heating.



Illuminate your work area adequately but safely. Use a portable safety light for working inside or under the machine. Make sure the bulb is enclosed by a wire cage. The hot filament of an accidentally broken bulb can ignite spilled fuel or oil.

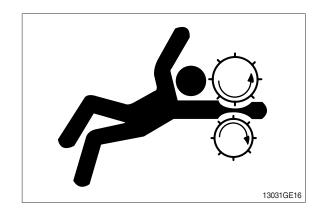




SERVICE MACHINE SAFELY

Tie long hair behind your head. Do not wear a necktie, scarf, loose clothing or necklace when you work near machine tools or moving parts. If these items were to get caught, severe injury could result.

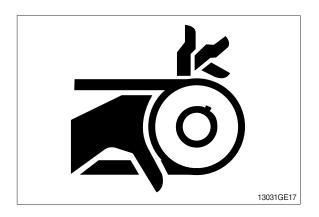
Remove rings and other jewelry to prevent electrical shorts and entanglement in moving parts.



STAY CLEAR OF MOVING PARTS

Entanglements in moving parts can cause serious injury.

To prevent accidents, use care when working around rotating parts.



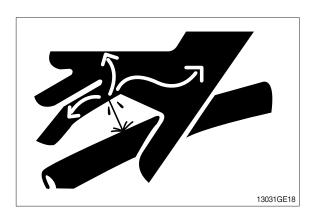
AVOID HIGH PRESSURE FLUIDS

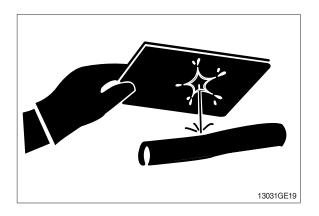
Escaping fluid under pressure can penetrate the skin causing serious injury.

Avoid the hazard by relieving pressure before disconnecting hydraulic or other lines. Tighten all connections before applying pressure.

Search for leaks with a piece of cardboard. Protect hands and body from high pressure fluids.

If an accident occurs, see a doctor immediately. Any fluid injected into the skin must be surgically removed within a few hours or gangrene may result.





AVOID HEATING NEAR PRESSURIZED FLUID LINES

Flammable spray can be generated by heating near pressurized fluid lines, resulting in severe burns to yourself and bystanders. Do not heat by welding, soldering, or using a torch near pressurized fluid lines or other flammable materials.

Pressurized lines can be accidentally cut when heat goes beyond the immediate flame area. Install fire resisting guards to protect hoses or other materials.



PREVENT BATTERY EXPLOSIONS

Keep sparks, lighted matches, and flame away from the top of battery. Battery gas can explode.

Never check battery charge by placing a metal object across the posts. Use a volt-meter or hydrometer.

Do not charge a frozen battery; It may explode. Warm battery to 16°C (60°F).



PREVENT ACID BURNS

Sulfuric acid in battery electrolyte is poisonous. It is strong enough to burn skin, eat holes in clothing, and cause blindness if splashed into eyes.

Avoid the hazard by:

- 1. Filling batteries in a well-ventilated area.
- 2. Wearing eye protection and rubber gloves.
- 3. Avoiding breathing fumes when electrolyte is added.
- 4. Avoiding spilling of dripping electrolyte.
- 5. Use proper jump start procedure.

If you spill acid on yourself:

- 1. Flush your skin with water.
- 2. Apply baking soda or lime to help neutralize the acid.
- Flush your eyes with water for 10-15 minutes. Get medical attention immediately.

If acid is swallowed:

- 1. Drink large amounts of water or milk.
- 2. Then drink milk of magnesia, beaten eggs, or vegetable oil.
- 3. Get medical attention immediately.

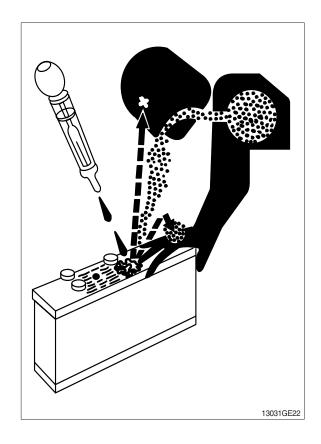
USE TOOLS PROPERLY

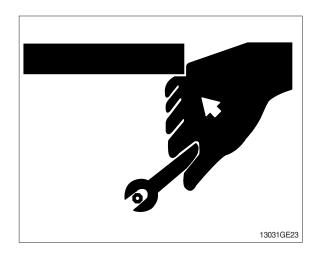
Use tools appropriate to the work. Makeshift tools, parts, and procedures can create safety hazards.

Use power tools only to loosen threaded tools and fasteners.

For loosening and tightening hardware, use the correct size tools. DO NOT use U.S. measurement tools on metric fasteners. Avoid bodily injury caused by slipping wrenches.

Use only recommended replacement parts. (See Parts catalogue.)



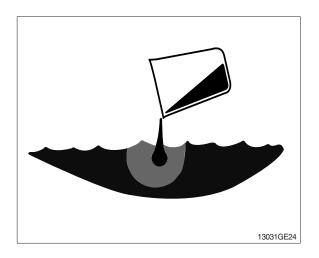


DISPOSE OF FLUIDS PROPERLY

Improperly disposing of fluids can harm the environment and ecology. Before draining any fluids, find out the proper way to dispose of waste from your local environmental agency.

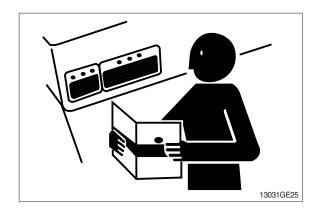
Use proper containers when draining fluids. Do not use food or beverage containers that may mislead someone into drinking from them.

DO NOT pour oil into the ground, down a drain, or into a stream, pond, or lake. Observe relevant environmental protection regulations when disposing of oil, fuel, coolant, brake fluid, filters, batteries, and other harmful waste.



REPLACE SAFETY SIGNS

Replace missing or damaged safety signs. See the machine operator's manual for correct safety sign placement.

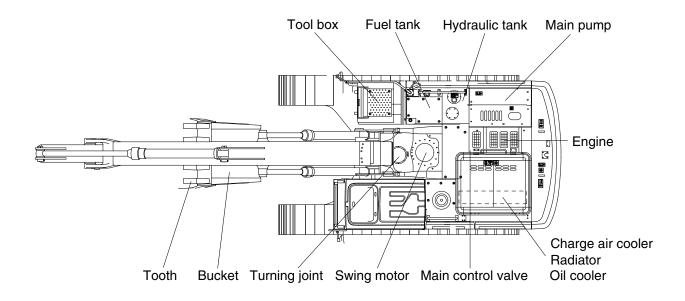


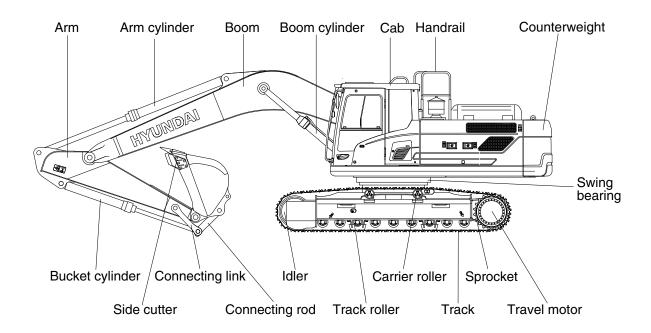
LIVE WITH SAFETY

Before returning machine to customer, make sure machine is functioning properly, especially the safety systems. Install all guards and shields.

GROUP 2 SPECIFICATIONS

1. MAJOR COMPONENT



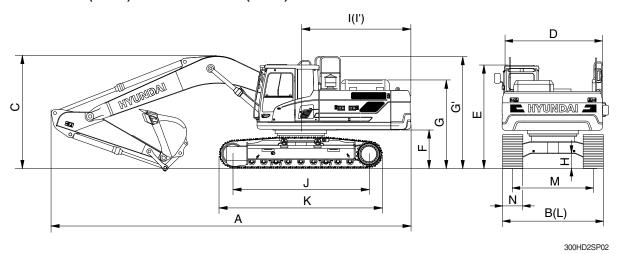


300HD2SP01

2. SPECIFICATIONS

1) HX300HD

(1) 6.25 m (20' 6") boom and 3.05 m (10' 0") arm

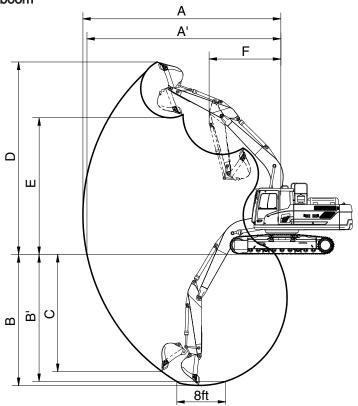


Description		Unit	Specification
Operating weight		kg (lb)	30200 (66580)
Bucket capacity (SAE heaped), standard		m³ (yd³)	1.50 (1.96)
Overall length	Α		10740 (35' 3")
Overall width, with 600 mm shoe	В		3200 (10' 6")
Overall height of boom	С		3320 (10' 11")
Superstructure width	D		2980 (9' 9")
Overall height of cab	Е		3130 (10' 3")
Ground clearance of counterweight	F		1185 (3' 9")
Overall height of engine hood	G		2657 (8' 9")
Overall height of handrail	G'	mm (ft-in)	3336 (10' 11")
Minimum ground clearance	Н		500 (1' 8")
Rear-end distance	I		3265 (10' 9")
Rear-end swing radius	l'		3345 (11' 0")
Distance between tumblers	J		4030 (13' 3")
Undercarriage length	K		4940 (16' 2")
Undercarriage width	L		3200 (10' 6")
Track gauge	М		2600 (8' 6")
Track shoe width, standard	N		600 (24")
Travel speed (low/high)		km/hr (mph)	3.3/5.9 (2.1/3.7)
Swing speed		rpm	10.2
Gradeability		Degree (%)	35 (70)
Ground pressure (600 mm shoe)		kgf/cm² (psi)	0.58 (8.25)
Max traction force	·	kg (lb)	26500 (58420)

3. WORKING RANGE

1) HX300HD

(1) 6.25 m (20' 6") boom



300HD2SP06

Description		2.50 m (8' 2") Arm	3.05 m (10' 0") Arm
Max digging reach	Α	10310 mm (33'10")	10810 mm (35' 6")
Max digging reach on ground	A'	10100 mm (33' 2")	10610 mm (34' 10")
Max digging depth		6780 mm (22' 3")	7330 mm (24' 1")
Max digging depth (8 ft level)		6600 mm (21' 8")	7170 mm (23' 6")
Max vertical wall digging depth		5760 mm (18'11")	6280 mm (20' 7")
Max digging height	D	9980 mm (32' 9")	10200 mm (33' 6")
Max dumping height	Е	6930 mm (22' 9")	7150 mm (23' 5")
Min swing radius	F	4320 mm (14' 2")	4270 mm (14' 0")
		165.7 [180.8] kN	165.7 [180.8] kN
	SAE	16900 [18440] kgf	16900 [18440] kgf
Dualist dissing force		37260 [40650] lbf	37260 [40650] lbf
Bucket digging force		191.2 [208.6] kN	192.2 [209.7] kN
	ISO	19500 [21270] kgf	19600 [21380] kgf
		42990 [46890] lbf	43210 [47130] lbf
		155.9 [170.1] kN	131.4 [143.4] kN
	SAE	15900 [17350] kgf	13400 [14620] kgf
Arm dissing force		35050 [38250] lbf	29540 [32230] lbf
Arm digging force		163.8 [178.7] kN	136.3 [148.7] kN
	ISO	16700 [18220] kgf	13900 [15160] kgf
		36820 [40170] lbf	30640 [33420] lbf

[]: Power boost

4. WEIGHT

1) HX300HD

lt	HX30	00HD
ltem -	kg	lb
Upperstructure assembly	13740	30290
Main frame weld assembly	2720	6000
Engine assembly	617	1360
Main pump assembly	201	443
Main control valve assembly	220	485
Swing motor assembly	350	770
Hydraulic oil tank assembly	250	550
Fuel tank assembly	240	530
Counterweight	5200	11460
Cab assembly	422	930
Lower chassis assembly	10790	23790
Track frame weld assembly	3750	8270
Swing bearing	435	960
Travel motor assembly	360	790
Turning joint	54	120
Sprocket	83	183
Track recoil spring	225	500
Idler	250	551
Carrier roller	35	80
Track roller	56	123
Track-chain assembly (600 mm standard triple grouser shoe)	1880	4145
Front attachment assembly (6.25 m boom, 3.05 m arm, 1.50 m³ SAE heaped bucket)	5550	12240
6.25 m boom assembly	2285	5040
3.05 m arm assembly	1025	2260
1.50 m³ SAE heaped bucket	1010	2230
Boom cylinder assembly	270	600
Arm cylinder assembly	360	790
Bucket cylinder assembly	220	485
Bucket control linkage total	110	240

5. LIFTING CAPACITIES

Unit: mm

Model	Boom	Boom Boom		Counterweight	Shoe	noe Doze		Outrigge	
iviouei	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX300HD	Mono	6250	2500	5200	600	-	-	-	-

: Rating over-front

· 🖶 : Rating over-side or 360 degree



				L	_ift-point ı	adius (B)				At	max. re	each
Lift-point		3.0 m	(9.8 ft)	4.5 m (14.8 ft)		6.0 m (6.0 m (19.7 ft)		7.5 m (24.6 ft)		Capacity	
height	(A)	U	#	ŀ	#		#	ŀ		·	#	m (ft)
7.5m	kg					*6980	*6980			*6760	6760	6.74
24.6ft	lb					*15390	*15390			*14900	14900	(22.1)
6.0m	kg					*7380	*7380	*7170	5630	*6440	5330	7.74
19.7ft	lb					*16270	*16270	*15810	12410	*14200	11750	(25.4)
4.5m	kg			*10660	*10660	*8470	7750	*7530	5500	*6420	4620	8.34
14.8ft	lb			*23500	*23500	*18670	17090	*16600	12130	*14150	10190	(27.4)
3.0m	kg			*13720	10980	*9850	7320	*8180	5300	*6640	4270	8.64
9.8ft	lb			*30250	24210	*21720	16140	*18030	11680	*14640	9410	(28.3)
1.5m	kg					*11040	6970	8220	5120	6630	4160	8.67
4.9ft	lb					*24340	15370	18120	11290	14620	9170	(28.4)
0.0m	kg			*16170	10220	11300	6770	8080	5000	6840	4270	8.43
0.0ft	lb			*35650	22530	24910	14930	17810	11020	15080	9410	(27.7)
-1.5m	kg	*11150	*11150	*15780	10240	11240	6730	8060	4980	7520	4670	7.89
-4.9ft	lb	*24580	*24580	*34790	22580	24780	14840	17770	10980	16580	10300	(25.9)
-3.0m	kg	*19830	*19830	*14550	10410	*10980	6830			*9000	5590	6.99
-9.8ft	lb	*43720	*43720	*32080	22950	*24210	15060			*19840	12320	(22.9)
-4.5m	kg	*15970	*15970	*11820	10790					*9210	7980	5.55
-14.8ft	lb	*35210	*35210	*26060	23790					*20300	17590	(18.2)

* Note

- 1. Lifting capacity are based on SAE J1097 and ISO 10567.
- 2. Lifting capacity of the ROBEX series does not exceed 75% of tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
- 3. The lift-point is bucket mounting pin on the arm (without bucket).
- 4. *indicates load limited by hydraulic capacity.
- * Lifting capacities are based upon a standard machine conditions.

Lifting capacities will vary with different work tools, ground conditions and attachments.

The difference between the weight of a work tool attachment must be subtracted.

Consult your Hyundai dealer regarding the lifting capacities for specific work tools and attachments.

▲ Failure to comply to the rated load can cause possible personal injury or property damage.

Make adjustments to the rated load as necessary for non-standard configurations.

Unit: mm

Model	Boom	Boom	Arm	Counterweight	Shoe	Doze	Dozer		ger
Iviouei	Type	Length	Length	Weight (kg)	Width	Front	Rear	Front	Rear
HX300HD	Mono	6250	3050	5200	600	-	-	-	-

· 🖟 : Rating over-front

· 🖶 : Rating over-side or 360 degree



			Lift-point radius (B)									At max. reach		ach
Lift-poi	int	3.0 m	(9.8 ft)	4.5 m (14.8 ft)	6.0 m (19.7 ft)	7.5 m (24.6 ft)	9.0 m (29.5 ft)	Capa	acity	Reach
height	(A)	H	#		#	H	#	·	#	H	#			m (ft)
7.5 m	kg											*4410	*4410	7.38
(24.6 ft)	lb											*9720	*9720	(24.2)
6.0 m	kg							*6490	5710			*4220	*4220	8.30
(19.7 ft)	lb							*14310	12590			*9300	*9300	(27.2)
4.5 m	kg			*9450	*9450	*7760	*7760	*6980	5540			*4210	4200	8.86
(14.8 ft)	lb			*20830	*20830	*17110	*17110	*15390	12210			*9280	9260	(29.1)
3.0 m	kg			*12510	11250	*9210	7400	*7720	5320	*5490	4000	*4340	3900	9.14
(9.8 ft)	lb			*27580	24800	*20300	16310	*17020	11730	*12100	8820	*9570	8600	(30.0)
1.5 m	kg			*14900	10490	*10550	7000	8210	5110	*6190	3900	*4640	3790	9.17
(4.9 ft)	lb			*32850	23130	*23260	15430	18100	11270	*13650	8600	*10230	8360	(30.1)
0.0 m	kg			*15940	10170	11280	6740	8040	4950			*5160	3870	8.94
(0.0 ft)	lb			*35140	22420	24870	14860	17730	10910			*11380	8530	(29.3)
-1.5 m	kg	*11100	*11100	*15950	10110	11160	6640	7970	4890			*6050	4180	8.44
(-4.9 ft)	lb	*24470	*24470	*35160	22290	24600	14640	17570	10780			*13340	9220	(27.7)
-3.0 m	kg	*17910	*17910	*15100	10220	11210	6690	8050	4960			*7770	4870	7.61
(-9.8 ft)	lb	*39480	*39480	*33290	22530	24710	14750	17750	10930			*17130	10740	(25.0)
-4.5 m	kg	*18100	*18100	*13040	10520	*9550	6920					*8810	6480	6.32
(-14.8 ft)	lb	*39900	*39900	*28750	23190	*21050	15260					*19420	14290	(20.7)
-6.0 m	kg													
(-19.7 ft)														

* Note

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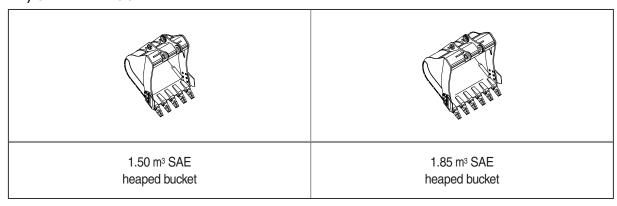
The difference between the weight of a work tool attachment must be subtracted.

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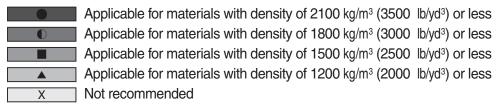
▲ Failure to comply to the rated load can cause possible personal injury or property damage. Make adjustments to the rated load as necessary for non-standard configurations.

6. BUCKET SELECTION GUIDE

1) GENERAL BUCKET



Car	Canacity		dth		Recommendation 6.25 m (20' 6") boom		
Cap	Capacity		ulli				
SAE heaped	CECE heaped	Without side cutter	With side cutter	Weight	2.5 m arm (8' 2")	3.05 m arm (10' 0")	
1.50 m ³ (1.96 yd ³)	1.30 m ³ (1.70 yd ³)	1490 mm (59")	1610 mm (63.0")	1080 kg (2380 lb)	•	0	
1.85 m ³ (2.42 yd ³)	1.60 m ³ (2.09 yd ³)	1800 mm (71")	1920 mm (76")	1230 kg (2710 lb)	•	•	



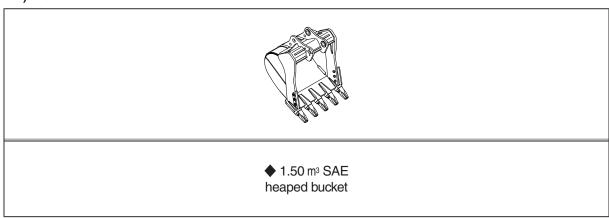
^{*} These recommendations are for general conditions and average use.

Work tools and ground conditions have effects on machine performance.

Select an optimum combination according to the working conditions and the type of work that is being done.

Consult your Hyundai dealer for information on selecting the correct boom-arm-bucket combination.

2) ROCK-HEAVY DUTY BUCKET



Can	Capacity Width				Recommendation		
Cap	Сараспу		vvidui		6.25 m (20' 6") boom		
SAE heaped	CECE heaped	Without side cutter	With side cutter	Weight	2.5 m arm (8' 2")	3.05 m arm (10' 0")	
◆ 1.50 m³ (1.96 yd³)	1.30 m ³ (1.70 yd ³)	1620 mm (64")	-	1440 kg (3170 lb)	0	•	

◆: Rock-Heavy duty bucket

	Applicable for materials with density of 2100 kg/m 3 (3500	lb/yd³) or less
	Applicable for materials with density of 1800 $\mbox{kg/m}^{3}$ (3000	lb/yd³) or less
	Applicable for materials with density of 1500 kg/m 3 (2500	lb/yd³) or less
	Applicable for materials with density of 1200 $\mbox{kg/m}^{3}$ (2000	lb/yd³) or less
X	Not recommended	

7. UNDERCARRIAGE

1) TRACKS

X-leg type center frame is integrally welded with reinforced box-section track frames. The design includes dry tracks, lubricated rollers, idlers, sprockets, hydraulic track adjusters with shock absorbing springs and assembled track-type tractor shoes with triple grousers.

2) TYPES OF SHOES

			Triple grouser			
Model	Shapes					
	Shoe width	mm (in)	600 (24)	800 (32)		
HYSOOUD	Operating weight	kg (lb)	30200 (66580)	31150 (68670)		
HX300HD	Ground pressure	kgf/cm² (psi)	0.58 (8.27)	0.45 (6.4)		
	Overall width	mm (ft-in)	3200 (10' 6")	3400 (11' 1")		

3) NUMBER OF ROLLERS AND SHOES ON EACH SIDE

Item	Quantity
Carrier rollers	2 EA
Track rollers	9 EA
Track shoes	48 EA

4) SELECTION OF TRACK SHOE

Suitable track shoes should be selected according to operating conditions.

Method of selecting shoes

Confirm the category from the list of applications in **table 2**, then use **table 1** to select the shoe. Wide shoes (categories B and C) have limitations on applications. Before using wide shoes, check the precautions, then investigate and study the operating conditions to confirm if these shoes are suitable.

Select the narrowest shoe possible to meet the required flotation and ground pressure. Application of wider shoes than recommendations will cause unexpected problem such as bending of shoes, crack of link, breakage of pin, loosening of shoe bolts and the other various problems.

*** Table 1**

Track shoe	Specification	Category
600 mm triple grouser	Standard	A
800 mm triple grouser	Option	С

* Table 2

Category	Applications	Precautions
А	Rocky ground, river beds, normal soil	Travel at low speed on rough ground with large obstacles such as boulders or fallen trees or a wide range of general civil engineering work
В	Normal soil, soft ground	 These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees Travel at high speed only on flat ground Travel slowly at low speed if it is impossible to avoid going over obstacles
С	Extremely soft ground (swampy ground)	 Use the shoes only in the conditions that the machine sinks and it is impossible to use the shoes of category A or B These shoes cannot be used on rough ground with large obstacles such as boulders or fallen trees Travel at high speed only on flat ground Travel slowly at low speed if it is impossible to avoid going over obstacles

8. SPECIFICATIONS FOR MAJOR COMPONENTS

1) ENGINE

Item	Specification
Model	Hyundai HM8.3
Туре	4-cycle turbocharged, charge air cooled diesel engine
Cooling method	Water cooling
Number of cylinders and arrangement	6 cylinders, in-line
Firing order	1-5-3-6-2-4
Combustion chamber type	Direct injection type
Cylinder bore × stroke	114 \times 134.9 mm (4.49" \times 5.31")
Piston displacement	8290 cc (506 cu in)
Compression ratio	18:1
Rated net horse power (SAE J1349)	245 Hp (183 kW) at 2200 rpm
Rated gross horse power (SAE J1995)	250 Hp (186 kW) at 2200 rpm
Maximum torque	124 kgf · m (899 lbf · ft) at 1300 rpm
Engine oil quantity	26.5 ℓ (7.0 U.S. gal)
Wet weight	617 kg (1360 lb)
High idling speed	2457±50 rpm
Low idling speed	$850\pm100~\mathrm{rpm}$
Rated fuel consumption	151 g/Hp · hr at 1400 rpm
Starting motor	24 V-7.2 kW
Alternator	24 V-90 A
Battery	2 × 12 V × 150 Ah

2) MAIN PUMP

Item	Specification				
Туре	Variable displacement tandem axis piston pumps				
Capacity	2 × 154 cc/rev				
Maximum pressure	350 kgf/cm² (4980 psi) [380 kgf/cm² (5400 psi)]				
Rated oil flow	2 × 285 ℓ /min (75.3 U.S. gpm / 62.7 U.K. gpm)				

[]: Power boost

3) GEAR PUMP

Item	Specification				
Туре	Fixed displacement gear pump single stage				
Capacity	15 cc/rev				
Maximum pressure	40 kgf/cm² (570 psi)				
Rated oil flow	27.75 ℓ /min (7.3 U.S. gpm/7.1 U.K. gpm)				

4) MAIN CONTROL VALVE

Item		Specification		
Туре		10 spools		
Operating method		Hydraulic pilot system		
Main relief valve pressure		350 kgf/cm² (4980 psi) [380 kgf/cm² (5400 psi)]		
Port relief valve pressure Boom Arm Bucket		400 kgf/cm² (5690 psi)		
		400 kgf/cm² (5690 psi)		
		400 kgf/cm² (5690 psi)		

[]: Power boost

5) SWING MOTOR

Item	Specification				
Туре	Axial piston motor				
Capacity	156.9 cc/rev				
Relief pressure	300 kgf/cm² (4270 psi)				
Braking system	Automatic, spring applied hydraulic released				
Braking torque	84.4 kgf · m (610 lbf · ft) over				
Brake release pressure	36.6 kgf/cm² (519 psi) below				
Reduction gear type	2 - stage planetary				

6) TRAVEL MOTOR

Item	Specification				
Туре	Variable displacement axial piston motor				
Capacity	282.6/156.9 cc/rev				
Relief pressure	350 kgf/cm² (4980 psi)				
Braking system	Automatic, spring applied hydraulic released				
Braking torque	134 kgf · m (969 lbf · ft)				
Brake release pressure	17 kgf/cm² (242 psi)				
Reduction gear type	2-stage planetary				

7) CYLINDER

Item		Specification				
Boom cylinder	Bore dia × Stroke	Ø140×1465 mm				
Booth cyllider	Cushion	Extend only				
Arm cylinder	Bore dia × Stroke	Ø150×1765 mm				
Anneyinder	Cushion	Extend and retract				
Bucket cylinder	Bore dia × Stroke	Ø135×1185 mm				
Ducket Cyllildel	Cushion	Extend only				

^{*} Discoloration of cylinder rod can occur when the friction reduction additive of lubrication oil spreads on the rod surface.

8) SHOE

Item	Width Ground pressure		Link quantity	Overall width		
Standard	600 mm (24") 0.58 kgf/cm² (8.27 psi)		48	3200 mm (10' 6")		
Option	800 mm (32")	0.45 kgf/cm² (6.40 psi)	48	3400 mm (11' 1")		

^{*} Discoloration does not cause any harmful effect on the cylinder performance.

9. RECOMMENDED OILS

HYUNDAI genuine lubricating oils have been developed to offer the best performance and service life for your equipment. These oils have been tested according to the specifications of HYUNDAI and, therefore, will meet the highest safety and quality requirements.

We recommend that you use only HYUNDAI genuine lubricating oils and grease officially approved by HYUNDAI.

Service		Capacity				Ambi	ent temp	perature °	C(°F)			
point	Kind of fluid	ℓ (U.S. gal)	-50 (-58)	-30 (-22)	-2 (-4	-	10 14) (-	10 50)	20 (68)	30 (86)	40 (104)
								SAE OW-4	iU			
					+64	E 0W-3						
Engine			L		* SA	□ UVV-3						
oil pan	Engine oil*1	26.5 (7.0)					SAE 5	W-30	T			
							SAE	10W-30				
								SA	E 15W-	40		
Swing		11 (2.91)			+0	AE 75V	/-QO					
drive	Gear oil	11 (2.91)				AL 750	V-30					
Final	0.00.	7.8×2						SAE	30W-90)		
drive		(2.1×2)									_	
		Tank : 190					ISO VG	32				
Hydraulic tank	Hydraulic oil	(50) System : 330	ISO VG 46, HBHO VG 46*3									
		(87)	ISO VG 68									
				★A	STM D	975 NC).1					
Fuel tank	Diesel fuel	500 (132)						AST	M D97	'5 NO.2)	
Гініса				\perp							-	
Fitting (grease	Grease	As required			L	★NL(GI NO.1					
nipple)	GII GUGG	7.6 . 6 qa 6 q					T	NLG	I NO.2			
Radiator	Mixture of antifreeze	07 (7.4)			E	thylene	glycol b	ase perm	anent t	ype (50):50)	
(reservoir tank)	and soft water ^{★2}	27 (7.1)	★Ethy	ylene gly	col base p	ermanent t	ype (60 : 40))				

SAE : Society of Automotive Engineers

API : American Petroleum Institute

ISO: International Organization for Standardization

NLGI: National Lubricating Grease Institute

ASTM: American Society of Testing and Material

★ : Cold region

Russia, CIS, Mongolia

*1 : Meet or exceeds API CH-4 grade

★2 : Soft water

City water or distilled water

★3: Hyundai Bio Hydraulic Oil

- * Using any lubricating oils other than HYUNDAI genuine products may lead to a deterioration of performance and cause damage to major components.
- * Do not mix HYUNDAI genuine oil with any other lubricating oil as it may result in damage to the systems of major components.
- * Do not use any engine oil other than that specified above.
- For HYUNDAI genuine lubricating oils and grease for use in regions with extremely low temperatures, please contact HYUNDAI dealers.