STANDARD / OPTION

ENGINE		STD	OPT
Cummins F3.8		●	
HYDRAULIC SYSTEM			
3-power mode, 2-work mode, user mode		●	
Variable power control		●	
Engine auto idle		●	
CAB & INTERIOR			
ISO STANDARD CABIN			
Rise-up type windshield wiper		●	
Radio / USB player		●	
USB socket		●	
Electric horn		●	
All-weather steel cab with 360° visibility		●	
Sliding fold-in front window		●	
Sliding side window(LH)		●	
Lockable door		●	
Storage compartment		●	
Sun visor			●
Door and cab locks, one key		●	
Mechanical suspension seat		●	
Pilot-operated slidable joystick		●	
Cabin lights			●
Cabin roof-steel cover		●	
AUTOMATIC CLIMATE CONTROL			
Air conditioner & heater		●	
Defroster		●	
Starting aid (air grid heater) for cold weather		●	
CENTRALIZED MONITORING			
Engine speed or trip meter / Accel.		●	
Engine coolant temperature gauge		●	
Max power		●	
Low speed / High speed		●	
Auto idle		●	
Air cleaner clogging		●	
Indicators		●	
Fuel level gauge		●	
Hyd. oil temperature gauge		●	
Fuel warmer		●	
Warnings		●	
Communication error		●	
Low battery		●	
Clock		●	
CABIN FOPS (ISO 10262) LEVEL 2			
FOPS (Falling Object Protective Structure)·ISO 10262 Level 2	Front & Tops guard		●

SAFETY	STD	OPT
Battery master switch	●	
Two front working lights (1 boom mounted, 1 front frame mounted)	●	
Travel alarm	●	
Beacon lamp		●
Automatic swing brake	●	
Boom holding system	●	
Arm holding system	●	
Two outside rearview mirror	●	
ATTACHMENT		
BOOMS		
4.60m, Mono	●	
ARMS		
2.50m	●	
OTHERS		
Removable clean-out dust net for cooler	●	
Fuel pre-filter	●	
Fuel warmer	●	
Self-diagnostics system	●	
Batteries (2 x 12V x 72 AH)	●	
Single-acting piping kit (breaker, etc.)		●
Accumulator for lowering work equipment	●	
Tool kit	●	
COUNTERWEIGHT		
1,800kg CWT	●	
UNDERCARRIAGE		
Lower frame under cover (normal)	●	
TRACK SHOES		
Triple grousers shoes ((500mm)	●	
Track rail guard	●	

* Standard and optional equipment may vary. Contact your Hyundai dealer for more information. The machine may vary according to International standards.
* 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.

HD HYUNDAI | Navitrans

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PLEASE CONTACT

2022. OCT

Best Quality, Customer First

Robex

130 VS PRO

CS-III engine installed

*The sample may include optional equipment.

Net Power : 86kW/2,200rpm | Operating weight : 13,400kg | Bucket capacity : 0.52m^3

HD HYUNDAI | Navitrans

Best Quality, Customer First

Hyundai VS Series Excavator is equipped with CS-III Engine, showing excellent performance and quality.

It has excellent safety, durability, comfort, work efficiency, contaminant exhaust reduction, and energy-saving effect. The noise level is very low.

Hyundai Construction Equipment established “Best Quality, Customers First” as the first goal based on an innovative mind. The company satisfies customers’ needs through a standardized production process having constructed an advanced customer service system – and values customer experiences as well as the best products in the world.

Creating values for customers!

VS Series Excavator: Perfect harmonization of environment-friendliness, performance, and quality!

More power, higher speed, and less fuel consumption

- Application of advanced diesel high-pressure common rail electronically controlled spray technology to new engine to meet the CS-III National Off-Road Exhaust Standard
- Sufficient combustion of diesel oil and significant enhancement of performances
- More environment-friendliness with the guaranteed durability of engines and reduced exhaust of harmful gases thanks to the multiple-fuel filter system
- Enhanced work speed and complex work capability with optimized design of MCV
- Increased per-hour work volume with enhanced loading operation efficiency
- Enhanced profit rate with reduced operation costs

VPC (Variable Power Control)

- The VPC system guarantees work speeds in all work modes through the variable control of pilot pressure and when combined with high fuel efficiency, it ensures high performance and low fuel cost.

Enhanced cooling performance

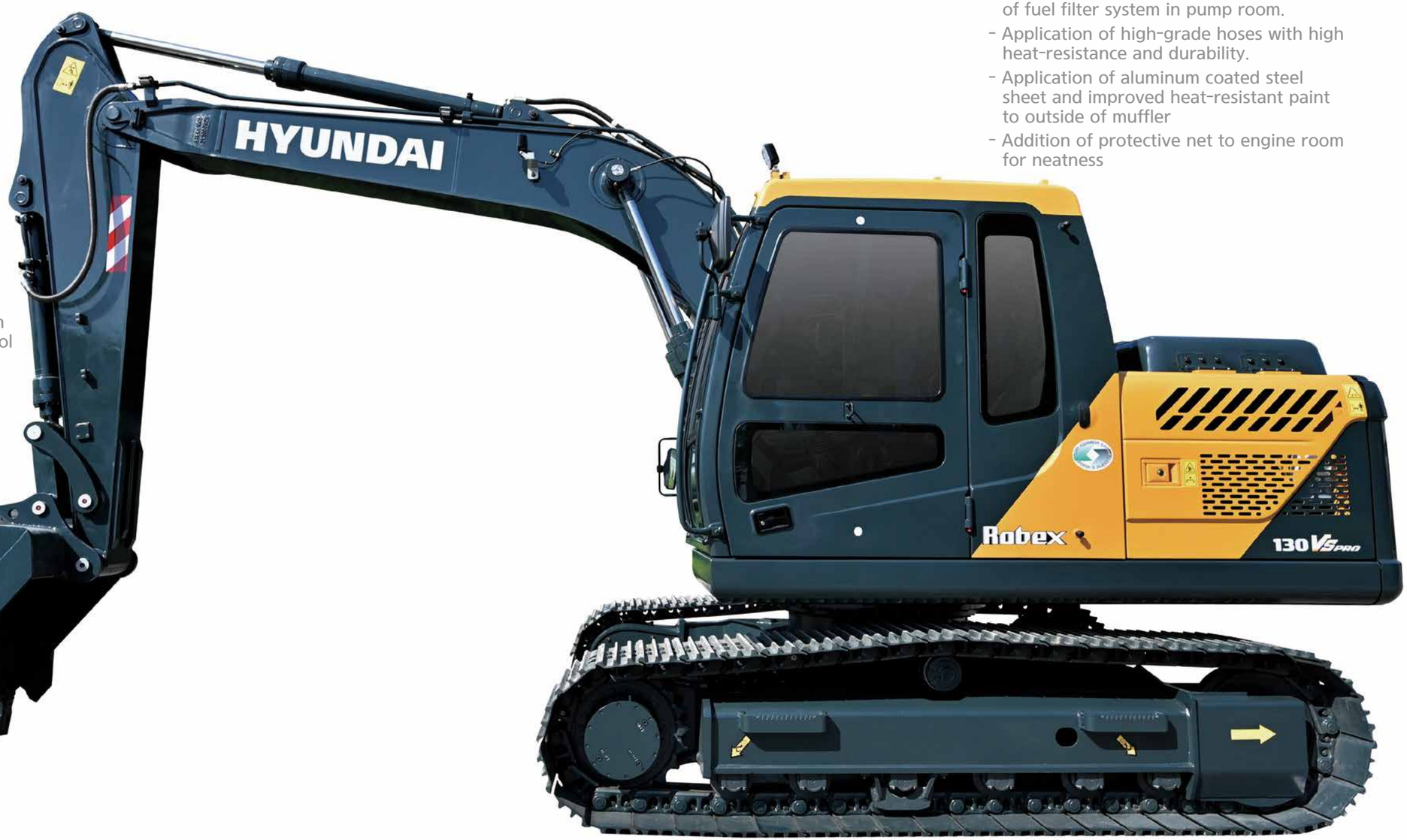
- High-capacity, high-efficiency direct cooling fans are applied.
- Polyurethane sponge with high oil resistance and heat resistance is used for cooling module ceilings.

Durable shaft, cover, and resin gasket

- Durability is enhanced, and lubrication cycle is extended with the enhanced lubrication of shafts and covers.
- Resin gaskets are used for enhanced lateral lubrication and prevention of damage and noise caused by abrasion.
- Loosening of working parts is minimized.

Better durability of structural components

- Convenient maintenance with installation of fuel filter system in pump room.
- Application of high-grade hoses with high heat-resistance and durability.
- Application of aluminum coated steel sheet and improved heat-resistant paint to outside of muffler
- Addition of protective net to engine room for neatness



Deluxe operating space

A comfortable environment is provided with low-noise operation and enhanced visibility in order to reduce the operation fatigue of the operator.

① The lever distance is reduced (550→500mm)
② The lever angle is changed (19° → 23°)
③ The operator seat is adjustable in a wide range of angles to meet the operator's physical condition.
④ Digital entertainment equipment and storage box, etc. are installed in the operation room.

More efficient work performance and lower fuel consumption

Cummins F3.8 Engine

Cummins F3.8 Engine is accepted by the industry for high usability and profitability due to its excellent credibility and durability, excellent fuel efficiency, low noise, good operability, and convenient maintenance and satisfies off-road engine equipment exhaust standard that is becoming stricter day by day.

Main pump

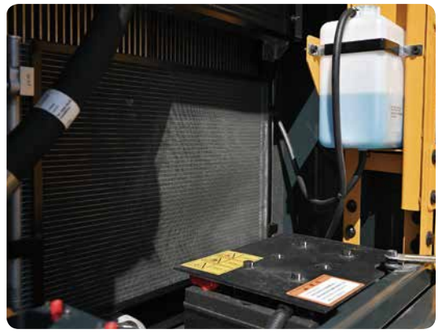
Imported original main pump guarantees high credibility and evaluation level. Filters are arranged with concentration for convenient maintenance after shutdown of equipment.

Hydraulic system

Imported rotary engine guarantees credibility and safety of rotary equipment.

LED lights are installed at boom, operating room, and crane to enhance safety and efficiency of night operation.

FULL UPGRADE



The cooling system passed poor environment tests and guarantees excellent cooling performance. Protective net is installed to prevent possible blocking of radiator with foreign substances.

21T large capacity air filter reduces restriction of air inflow and enhances engine performance.

0.52m^3 of bucket shows excellent digging and loading performances.

270L super large fuel tank and double-lock cover of fuel tank

Super large tool box

A large material storage is arranged in wide rear space of the cabin.

SPECIFICATIONS

ENGINE

Model		Cummins F3.8
Type		4-cycle, turbocharged, charged air cooled, electronic controlled diesel engine
Gross	SAE J1995	115hp (86kW) @ 2,200 rpm
Net	SAE J1349	113hp (84kW) @ 2,200 rpm
Max. Torque		47.9 kgf.m @ 2,200 rpm
Batteries		2 x 12V x 75Ah
Piston Displacement		3,760 cc

HYDRAULIC SYSTEM

MAIN PUMP

Type	Two variable displacement piston pumps
Rated flow	2 x 124 l/min
Sub-pump for pilot circuit	Gear pump

Cross-sensing & fuel saving pump system

HYDRAULIC MOTORS

Travel	Two speed axial piston motor with counter valve and parking brake
Swing	Axial piston motor with automatic brake

RELIEF VALVE SETTINGS

Implement circuits	350 kgf/cm^2
Travel	365 kgf/cm^2
Power boost (boom, arm, bucket)	380kgf/cm^2
Swing circuit	285 kgf/cm^2
Pilot circuit	40 kgf/cm^2
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder bore x stroke	Boom: 2-105 x 1,075 mm (4.1"x 42.3")
	Arm: 1-115 x 1,138 mm (4.5"x 44.8")
	Bucket: 1 - 100 x 850mm

DRIVE & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	13,300 kgf
Max. travel speed (high) / (low)	5.5 kmph / 3.2 kmph
Gradeability	35° (70%)
Parking brake	Multi wet disc

CONTROL

Pilot pressure operated joysticks and pedals with detachable lever provide almost effortless and fatigueless operation.

Pilot control (ISO)	Two joysticks with one safety lever (LH): Swing and Arm, (RH): Boom and bucket
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type
Lights	1 x Boom, 1 x Toolbox,

SWING SYSTEM

Swing motor	Axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease bathed
Swing brake	Multi wet disc
Swing speed	12.0 rpm

COOLANT & LUBRICANT CAPACITY

Refilling	liter
Fuel tank	270
Engine coolant	15.5
Engine oil	11.0
Swing device	2.5
Final drive (each)	3.0
Hydraulic system (Including tank)	210
Final drive (each)	124

UNDERCARRIAGE

The X-leg type center frame is integrally welded with reinforced box-section track frames. The undercarriage includes lubricated rollers, idlers, track adjusters with shock absorbing springs and sprockets and track chain with triple grouser shoes.

Center frame	X -leg type
Track frame	Pentagonal box type
No. of shoes on each side	44
No. of carrier roller on each side	1
No. of track roller on each side	6
No. of rail guard on each side	1

WEIGHT DISTRIBUTION

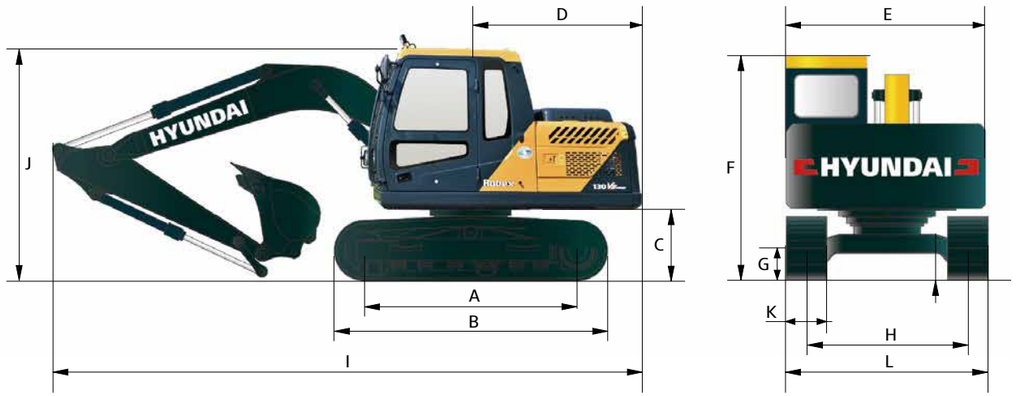
Operating weight, including 4,600mm boom, 2,500mm arm, SAE heaped 0.52m^3 bucket, lubricant, coolant, full fuel tank, and all standard equipment.

OPERATING WEIGHT

Shoes		Operating weight	Ground pressure
Counter weight	Width	kg	kgf/cm^2
Triple grouser	500 mm	13,400	0.43

* Standard equipment

DIMENSIONS



Unit : mm

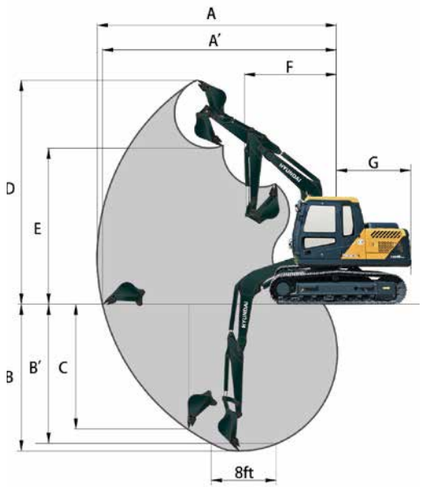
A	Tumbler distance	2,830
B	Overall length of crawler	3,580
C	Ground clearance of counter-weight	940
D	Tail swing radius	2,330
E	Overall width of upperstructure	2,475
F	Overall height of cab	2,775
G	Min. ground clearance	440
H	Track gauge	2,000

	Boom length	*4,600
	Arm length	*2,500
I	Overall length	7,820
J	Overall height of boom	2,780

K	Track shoe width	500
L	Overall width	2,500

* Standard equipment

WORKING RANGE



	Description	Unit		*2,500 Arm
A	Max digging reach	mm		8,330
A'	Max digging reach on ground			8,180
B	Max digging depth			5,550
B'	Max digging depth (8th level)			5,340
C	Max vertical wall digging depth			5,330
D	Max digging height			8,500
E	Max dumping height			6,060
F	Min swing radius			2,650
Bucket digging force		SAE	kN	87.3[94.8]
			kgf	8,900[9,660]
		ISO	kN	102[110.8]
			kgf	10,400[11,290]
Arm crowd force		SAE	kN	62.8[68.2]
			kgf	6,400[6,950]
		ISO	kN	65.7[71.4]
			kgf	6,700[7,270]

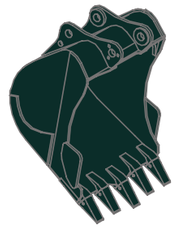
* Standard equipment [] : Power boost

SPECIFICATIONS

BUCKET SELECTION GUIDE

TYPES OF BUCKETS

SAE heaped



*0.52m³

Type	Capacity m³		Width mm		Weight kg	Recommendation	
	SAE heaped	CECE heaped	Without side cutters	With side cutters		*4.6 Boom	
						*2.5 Arm	
GP	0.52	0.45	915	1,015	460	■	▲

* Standard bucket

● Applicable for materials with density of 2,000 kg /m³ or less
■ Applicable for materials with density of 1,600 kg /m³ or less
▲ Applicable for materials with density of 1,100 kg /m³ or less
× Not Recommended

LIFTING CAPACITY

Rating over-front Rating over-side or 360 degree

Boom: 4.6 m (15' 1") / Arm: 2.50 m (8' 2") / Shoe: 500mm (1' 8") triple grouser

Lift point height m (ft)		Lift point radius 1.0m (3.3ft)		2.0m (6.6ft)		3.0m (9.8ft)		4.0m (13.1ft)		5.0m (16.4ft)		6.0m (19.7ft)		7.0m (23.0ft)		At max. reach Capacity		Reach
7.0m	kg															*2,750	*2,750	4.41
23.0ft	lb															*6,060	*6,060	(14.5)
6.0m	kg									*3,470	3,190					*2,420	*2,420	5.45
19.7ft	lb									*7,650	7,030					*5,340	*5,340	(17.9)
5.0m	kg									*3,520	3,180	*2,840	2,330			*2,270	2,220	6.15
16.4ft	lb									*7,760	7,010	*6,260	5,140			*5,000	4,890	(20.2)
4.0m	kg							*4,020	*4,020	*3,810	3,110	3,250	2,310			*2,210	1,940	6.62
13.1ft	lb							*8,860	*8,860	*8,400	6,860	7,170	5,090			*4,870	4,280	(21.7)
3.0m	kg					*6,210	*6,210	*4,920	4,220	4,260	2,990	3,190	2,250			*2,220	1,770	6.92
9.8ft	lb					*13,690	*13,690	*10,850	9,300	9,390	6,590	7,030	4,960			*4,890	3,900	(22.7)
2.0m	kg					*8,290	6,100	5,860	3,970	4,120	2,860	3,110	2,180	2,440	1,710	*2,280	1,690	7.06
6.6ft	lb					*18,280	13,450	12,920	8,750	9,080	6,310	6,860	4,810	5,380	3,770	*5,030	3,730	(23.2)
1.0m	kg					*6,100	5,740	5,630	3,770	3,990	2,750	3,040	2,110	2,410	1,680	2,380	1,660	7.05
3.3ft	lb					*13,450	12,650	12,410	8,310	8,800	6,060	6,700	4,650	5,310	3,700	5,250	3,660	(23.1)
0.0m	kg					*6,480	5,580	5,480	3,640	3,890	2,660	2,980	2,060			2,440	1,690	6.90
0.0ft	lb					*14,290	12,300	12,080	8,020	8,580	5,860	6,570	4,540			5,380	3,730	(22.6)
-1.0m	kg			*4,460	*4,460	*8,440	5,550	5,410	3,580	3,840	2,610	2,950	2,030			2,600	1,800	6.59
-3.3ft	lb			*9,830	*9,830	*18,610	12,240	11,930	7,890	8,470	5,750	6,500	4,480			5,730	3,970	(21.6)
-2.0m	kg	*5,390	*5,390	*7,010	*7,010	9,010	5,580	5,410	3,580	3,840	2,610	2,970	2,050			2,910	2,010	6.09
-6.6ft	lb	*11,880	*11,880	*15,450	*15,450	19,860	12,300	11,930	7,890	8,470	5,750	6,550	4,520			6,420	4,430	(20.0)
-3.0m	kg			*10,370	*10,370	*8,820	5,680	5,480	3,630	3,890	2,660					3,540	2,440	5.36
-9.8ft	lb			*22,860	*22,860	*19,440	12,520	12,080	8,000	8,580	5,860					7,800	5,380	(17.6)
-4.0m	kg					*7,060	5,860	*5,200	3,780							*4,640	3,450	4.28
-13.1ft	lb					*15,560	12,920	*11,460	8,330							*10,230	7,610	(14.0)

1. Lifting capacity are based on ISO 10567.
2. Lifting capacity of the Robex Series does not exceed 75% of the tipping load with the machine on firm, level ground or 87% of full hydraulic capacity.
3. The Lift-point is bucket pivot mounting pin on the arm(without bucket mass).
4. *indicates the load limited by hydraulic capacity.