SPECIFICATIONS

HX430 L

ENGINE

Maker / Model			Cummins QSL9
Type			Water cooled, 4 cycle Diesel, 6-cylinders in line, Direct injection, Turbocharged, Charger air cooled, Low emission
Rated flywheel horse power	SAE	J1995 (gross)	277 kW (372 HP) at 1,800 rpm
		J1349 (net)	267 kW (358 HP) at 1,800 rpm
	DIN	6271/1 (gross)	277 kW (377 PS) at 1,800 rpm
		6271/1 (net)	267 kW (363 PS) at 1,800 rpm
Max. torque			166 kgf·m (1,186 lbf·ft) at 1,500 rpm
Bore × stroke			114 × 145 mm (4.5" × 5.7")
Piston displacement			8,900 cc (543 cu in)
Batteries			2 × 12 V × 160 Ah
Starting motor			24 V - 7.8 kW
Alternator			24 V - 95 A

HYDRAULIC SYSTEM

MAIN PUMP

Type	Variable displacement tandem axis piston pumps
Max. flow	2 × 333 ℓ/min (88.0 U.S. gpm / 73.2 U.K. gpm)
Sub-pump for pilot circuit	Gear pump

Cross-sensing and fuel saving pump system

HYDRAULIC MOTORS

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

RELIEF VALVE SETTING

Implement circuits	330 kgf/cm² (4,690 psi)
Travel	360 kgf/cm² (5,120 psi)
Power boost (boom, arm, bucket)	360 kgf/cm² (5,120 psi)
Swing circuit	290 kgf/cm² (4,125 psi)
Pilot circuit	40 kgf/cm² (569 psi)
Service valve	Installed

HYDRAULIC CYLINDERS

No. of cylinder bore × stroke	Boom: Ø 2-160 × 1,500 mm (6.3" x 59.1")
	Arm: Ø 1-170 × 1,760 mm (6.7" x 69.3")
	Bucket: Ø 1-150 × 1,295 mm (5.9" x 51.0")

DRIVES & BRAKES

Drive method	Fully hydrostatic type
Drive motor	Axial piston motor, in-shoe design
Reduction system	Planetary reduction gear
Max. drawbar pull	33,500 kgf (73,854 lbf)
Max. travel speed (high / low)	5.3 km/hr (3.3 mph) / 3.0 km/hr (1.9 mph)
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	Two joysticks with one safety lever (LH): Swing and arm (RH): Boom and bucket (ISO)
Traveling and steering	Two levers with pedals
Engine throttle	Electric, Dial type

SWING SYSTEM

Swing motor	Fixed displacement axial piston motor
Swing reduction	Planetary gear reduction
Swing bearing lubrication	Grease-bathed
Swing brake	Multi wet disc
Swing speed	9.2 rpm

SERVICE REFILL CAPACITIES

Re-filling	Liter	US gal	UK gal
Fuel tank	600	159	132
Engine coolant	55	14.5	12.1
Engine oil	30	7.9	6.6
Swing device (each)	8	2.1	1.8
Final drive (each)	12	3.2	2.6
Hydraulic system (including tank)	414	109.7	91.1
Hydraulic tank	210	55.5	41.8

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 a track chain with double or triple grouser shoes.

Center frame	X - leg type
Track frame	Pentagonal box type
No. of shoes on each side	53 EA
No. of carrier roller on each side	2 EA
No. of track roller on each side	9 EA
No. of rail guard on each side	2 EA

OPERATING WEIGHT (APPROXIMATE)

Operating weight, including 6,500 mm (21' 4") boom, 3,200 mm (10' 6") arm, SAE heaped 1.9 m³ (2.49 yd³) Rock bucket, lubricant, coolant, full fuel tank, full hydraulic tank, and all standard equipments.

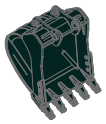
OPERATING WEIGHT

Shoes		Operating weight	Ground pressure
Type	Width mm (in)	kg (lb)	kgf / cm² (psi)
Triple grouser	600 (24")	44,120 (97,270)	0.76 (10.81)
	700 (28")	44,640 (98,410)	0.66 (9.39)
	750 (30")	44,900 (98,990)	0.62 (8.82)
	800 (32")	45,170 (99,580)	0.59 (8.39)
	900 (36")	45,680 (100,710)	0.53 (7.54)
Triple grouser (Heavy duty)	600 (24")	44,300 (97,660)	0.77 (10.95)
	700 (28")	44,850 (98,880)	0.67 (9.53)
Double grouser	600 (24")	43,930 (96,850)	0.76 (10.81)
	700 (28")	44,050 (97,110)	0.60 (9.39)

HYUNDAI HEAVY INDUSTRIES EUROPE

BUCKET SELECTION GUIDE HX430 L & DIGGING FORCE

BUCKETS



SAE heaped
m^3 (yd^3)

◆1.90 (2.49)
◆2.10 (2.75)

Capacity m^3 (yd^3)		Width mm (in)	Weight kg (lb)	Recommendation mm (ft.in)	
				6,500 (21' 4") Boom	
SAE heaped	CECE heaped			2,600 (8' 6") Arm	3,200 (10' 6") Arm
◆ 1.90 (2.49)	1.65 (2.16)	1,665 (66")	1,980 (4,370)	●	⊙
◆ 2.10 (2.75	1.84 (2.41)	1,800 (71")	2,080 (4,590)	⊙	○

◆ Rock-Heavy duty bucket

● : Applicable for materials with density of 2,000 kg /m^3 (3,370 lb/ yd^3) or less
⊙ : Applicable for materials with density of 1,600 kg /m^3 (2,700 lb/ yd^3) or less
○ : Applicable for materials with density of 1,100 kg /m^3 (1,850 lb/ yd^3) or less

ATTACHMENT

Booms and arms are welded with a low-stress, full-box section design.
6.5 m & 10.2 m Booms and 2.1 m; 2.5 m; 3.05 m; 3.75 m & 7.85 m. Arms are available.

DIGGING FORCE

Arm	Length	mm (ft.in)	2,600 (8' 6")	3,200 (10' 6")	Remarks:
	Weight	kg (lb)	1,990 (4,390)	2,080 (4,590)	
Bucket digging force	SAE	kN	201.0 [219.3]	201.0 [219.3]	[ ]: Power Boost
		kgf	20,500 [22,360]	20,500 [22,360]	
		lbf	45,190 [49,300]	45,190 [49,300]	
	ISO	kN	228.5 [249.3]	228.5 [249.3]	
		kgf	23,300 [25,420]	23,300 [25,420]	
		lbf	51,370 [56,040]	51,370 [56,040]	
Arm crowd force	SAE	kN	180.7 [197.2]	160.8 [175.4]	
		kgf	18,430 [20,110]	16,400 [17,890]	
		lbf	40,630 [44,330]	36,160 [39,440]	
	ISO	kN	188.0 [205.1]	165.7 [180.8]	
		kgf	19,170 [20,910]	16,900 [18,440]	
		lbf	42,260 [46,100]	37,260 [40,650]	

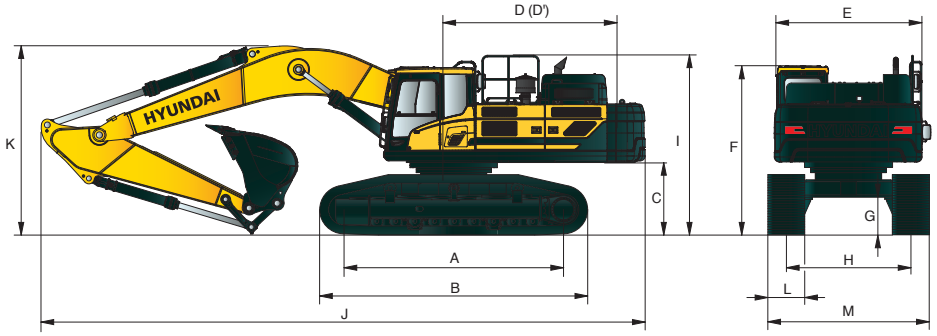
Note : Boom weight includes arm cylinder, piping, and pin
Arm weight includes bucket cylinder, linkage, and pin

DIMENSIONS & WORKING RANGE

HX430 L

HX430 L DIMENSIONS

6.5 m (21' 4") BOOM and 2.6 m (8' 6"); 3.2 m (10' 6") ARM

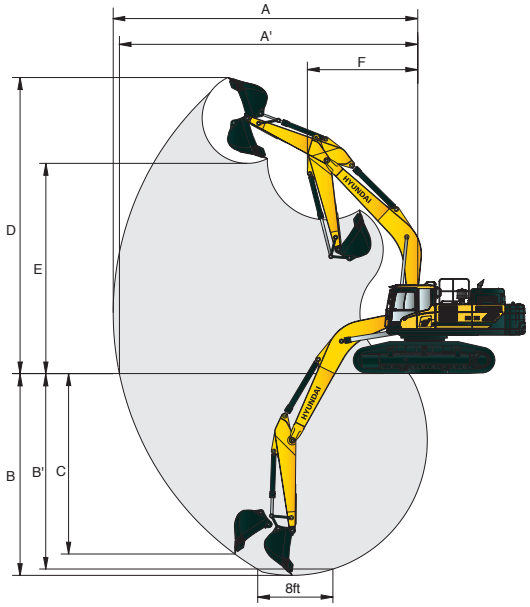


Unit : mm (ft·in)

A	Tumbler distance	4,470 (14' 8")
B	Overall length of crawler	5,462 (17' 11")
C	Ground clearance of counterweight	1,295 (4' 3")
D	Tail swing radius	3,615 (11' 10")
D'	Rear-end length	3,555 (11' 8")
E	Overall width of upperstructure	3,095 (10' 2")
F	Overall height of cab	3,240 (10' 8")
G	Min. ground clearance	565 (1' 10")
H	Track gauge	2,740 (9' 00")
I	Overall height of guardrail	3,445 (11' 4")

	Boom length	6,550 (21' 4")			
	Arm length	2,600 (8' 6")		3,200 (10' 6")	
J	Overall length	11,270 (37' 0")		11,400 (37' 5")	
K	Overall height of boom	3,740 (12' 3")		3,630 (11' 11")	
L	Track shoe width	600 (24")	700 (28")	750 (30")	800 (32")	900 (36")
M	Overall width	3,340 (10' 11")	3,440 (11' 3")	3,490 (11' 5")	3,540 (11' 7")	3,640 (11' 11")

HX430 L WORKING RANGE



Unit : mm (ft·in)

	Boom length	6,500 (21' 4")	
	Arm length	2,600 (8' 6")	3,200 (10' 6")
A	Max. digging reach	10,750 (35' 3")	11,160 (36' 7")
A'	Max. digging reach on ground	10,520 (34' 6")	10,930 (35' 10")
B	Max. digging depth	6,910 (22' 8")	7,500 (24' 7")
B'	Max. digging depth (8ft level)	6,730 (22' 1")	7,350 (24' 1")
C	Max. vertical wall digging depth	5,100 (16' 9")	5,440 (17' 10")
D	Max. digging height	10,390 (34' 1")	10,290 (33' 9")
E	Max. dumping height	7,250 (23' 9")	7,200 (23' 7")
F	Min. swing radius	4,540 (14' 11")	4,490 (14' 9")

LIFTING CAPACITY

HX430 L

Rating over-front Rating over-side or 360 degrees

HX430 L

6.5 m (21' 4") boom; 2.6 m (8' 6") arm equipped with 2.10 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoes.

Load point height m (ft)		Load radius								At max. reach		
		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		Capacity		Reach
												m (ft)
9.0 m (30 ft)	kg									*6110	*6110	6.70
	lb									*13470	*13470	(22.0)
7.5 m (25 ft)	kg									*6020	*6020	8.02
	lb									*13270	*13270	(26.3)
6.0 m (20 ft)	kg					*7120	*7120	*6600	*6600	*6110	5360	8.86
	lb					*15700	*15700	*14550	*14550	*13470	11820	(29.1)
4.5 m (15 ft)	kg			*11000	*11000	*8440	*8440	*7210	*7210	*6270	4660	9.37
	lb			*24250	*24250	*18610	*18610	*15900	*15900	*13820	10270	(30.7)
3.0 m (10 ft)	kg			*14280	*14280	*10020	*10020	*8020	7050	*6500	4310	9.59
	lb			*31480	*31480	*22090	*22090	*17680	15540	*14330	9500	(31.5)
1.5 m (5 ft)	kg			*16530	15120	*11380	9660	*8800	6730	*6770	4240	9.56
	lb			*36440	33330	*25090	21300	*19400	14840	*14930	9350	(31.4)
Ground Line	kg			*17270	14740	*12190	9310	*9320	6510	*7070	4450	9.27
	lb			*38070	32500	*26870	20530	*20550	14350	*15590	9810	(30.4)
-1.5 m (-5 ft)	kg	*18230	*18230	*16960	14720	*12320	9190	*9370	6430	*7360	5020	8.68
	lb	*40190	*40190	*37390	32450	*27160	20260	*20660	14180	*16230	11070	(28.5)
-3.0 m (-10 ft)	kg	*21990	*21990	*15720	14940	*11590	9290			*7530	6250	7.73
	lb	*48480	*48480	*34660	32940	*25550	20480			*16600	13780	(25.4)
-4.5 m (-15 ft)	kg	*17990	*17990	*13070	*13070					*7190	*7190	6.24
	lb	*39660	*39660	*28810	*28810					*15850	*15850	(20.5)

6.5 m (21' 4") boom; 3.2 m (10' 6") arm equipped with 1.90 m³ (SAE heaped) bucket and 600 mm (24") triple grouser shoes.

Load point height m (ft)		Load radius										At max. reach		
		1.5 m (5 ft)		3.0 m (10 ft)		4.5 m (15 ft)		6.0 m (20 ft)		7.5 m (25 ft)		9.0 m (30 ft)		Capacity		Reach
																m (ft)
9.0 m (30 ft)	kg													*5440	*5440	7.31
	lb													*11990	*11990	(24.0)
7.5 m (25 ft)	kg									*5330	*5330			*5490	*5490	8.53
	lb									*11750	*11750			*12100	*12100	(28.0)
6.0 m (20 ft)	kg									*6000	*6000			*5630	5080	9.32
	lb									*13230	*13230			*12410	11200	(30.6)
4.5 m (15 ft)	kg							*7670	*7670	*6690	*6690	*5290	*5290	*5850	4450	9.80
	lb							*16910	*16910	*14750	*14750	*11660	*11660	*12900	9810	(32.2)
3.0 m (10 ft)	kg					*12950	*12950	*9350	*9350	*7600	7290	*6650	5220	*6110	4130	10.01
	lb					*28550	*28550	*20610	*20610	*16760	16070	*14660	11510	*13470	9110	(32.8)
1.5 m (5 ft)	kg					*15710	15610	*10910	9940	*8500	6920	*7140	5020	*6420	4040	9.98
	lb					*34630	34410	*24050	21910	*18740	15260	*15740	11070	*14150	8910	(32.7)
Ground Line	kg			*12890	*12890	*17110	14960	*11990	9480	*9200	6640	*7490	4880	*6770	4190	9.70
	lb			*28420	*28420	*37720	32980	*26430	20900	*20280	14640	*16510	10760	*14930	9240	(31.8)
-1.5 m (-5 ft)	kg	*13760	*13760	*17830	*17830	*17340	14770	12430	9270	*9490	6490			*7150	4640	9.15
	lb	*30340	*30340	*39310	*39310	*38230	32560	*27400	20440	*20920	14310			*15760	10230	(30.0)
-3.0 m (-10 ft)	kg	*18570	*18570	*23870	*23870	*16570	14860	*12110	9270	*9150	6510			*7520	5610	8.26
	lb	*40940	*40940	*52620	*52620	*36530	32760	*26700	20440	*20170	14350			*16580	12370	(27.1)
-4.5 m (-15 ft)	kg	*24270	*24270	*20790	*20790	*14620	*14620	*10670	9500					*7700	*7700	6.89
	lb	*53510	*53510	*45830	*45830	*32230	*32230	*23520	20940					*16980	*16980	(22.6)

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 load point is a hook located on the back of the bucket.
4. (*) indicates load limited by hydraulic capacity.

ENGINE	STD	OPT
Cummins QSL 9 engine	●	
HYDRAULIC SYSTEM		
Intelligent Power Control (IPC)		
3-power mode, 2-work mode, user mode	●	
Variable Power Control	●	
Pump Flow Control	●	
Attachment Mode Flow Control		●
Engine Auto Idle	●	
Engine Auto Shutdown Control		●
Electronic Fan Control	●	
CABIN & INTERIOR		
ISO Standard cabin		
Rise-up type windshield wiper	●	
Radio / USB player	●	
Handsfree mobile phone system with USB	●	
12 volt power outlet (24V DC to 12V DC converter)	●	
Electric horn	●	
All-weather steel cab with 360° visibility	●	
Safety glass windows	●	
Sliding fold-in front window	●	
Sliding side window (LH)	●	
Lockable door	●	
Hot & cool box	●	
Storage compartment & Ashtray	●	
Transparent cabin roof-cover	●	
Sun visor	●	
Door and cab locks, one key	●	
Mechanical suspension seat with heater	●	
Pilot-operated slidable joystick	●	
Console box height adjust system	●	
Automatic climate control		
Air conditioner & heater	●	
Defroster	●	
Starting Aid (air grid heater) for cold weather	●	
Centralized monitoring		
8" LCD display	●	
Engine speed or Trip meter/Accel.	●	
Engine coolant temperature gauge	●	
Max power	●	
Low speed/High speed	●	
Auto idle	●	
Overload	●	
Check Engine	●	
Air cleaner clogging	●	
Indicators	●	
ECO Gauges	●	
Fuel level gauge	●	
Hyd. oil temperature gauge	●	
Fuel warmer	●	
Warnings	●	
Communication error	●	
Low battery	●	
Clock	●	
Cabin lights		●
Cabin front window rain guard		●
Cabin roof-steel cover		●
Seat		
Adjustable air suspension seat with heater		●
Cabin FOPS/FOG		
FOPS (Falling Object Protective Structure) · ISO 3449 Level 2		●
FOG (Falling Object Guard)· Front & Top Guard		●
ISO/DIS 10262 Level 2 Top Guard		●
Cabin ROPS (ISO 12117-2)		
ROPS (Roll Over Protective Structure) · ISO 12117-2	●	

SAFETY	STD	OPT
Battery master switch	●	
Rearview camera	●	
AAVM (Advanced Around View Monitoring)		●
Six front working lights	●	
Travel alarm		●
Rear work lamp		●
Beacon lamp		●
Automatic swing brake	●	
Boom holding system	●	
Arm holding system	●	
Safety lock valve for boom cylinder with overload warning device	●	
Safety lock valve for arm cylinder		●
Swing Lock System		●
Three outside rearview mirrors	●	
OTHER		
Booms		
6.5 m; 21' 4"	●	
Arms		
2.6 m; 8' 6"		●
3.2 m; 10' 6"	●	
Removable clean-out dust net for cooler	●	
Removable reservoir tank	●	
Fuel pre-filter with single warmer	●	
Fuel pre-filter with dual warmer		●
Self-diagnostics system	●	
Hi-mate (Remote Management System) Mobile		●
Hi-mate (Remote Management System) Satellite		●
Batteries (2 × 12 V × 160 Ah)	●	
Fuel filler pump (50 ℓ/min)		●
Single-acting piping kit (breaker, etc.)		●
Double-acting piping kit (clamshell, etc.)		●
Rotating Piping Kit		●
Quick coupler piping		●
Quick coupler		●
Boom floating control		●
One Pedal Straight Travel System		●
Accumulator for lowering work equipment	●	
Pattern change valve (2 patterns)		●
Tool kit		●
UNDERCARRIAGE		
Lower frame under cover (Additional)		●
Lower frame under cover (Normal)	●	
Track shoes		
Triple grouser shoes (600 mm; 24")	●	
Triple grouser shoes (700 mm; 28")		●
Triple grouser shoes (750 mm; 30")		●
Triple grousers shoe (800 mm; 32")		●
Triple grousers shoe (900 mm; 36")		●
Triple grousers shoes (600 mm; 24" - Heavy Duty)		●
Triple grousers shoes (700 mm; 28" - Heavy Duty)		●
Double grousers shoe (600 mm; 24")		●
Double grousers shoe (700 mm; 28")		●
Track rail guard	●	
Full track rail guard high walker		●

STD = Standard
OPT = Optional

* 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.

HYUNDAI HEAVY INDUSTRIES EUROPE | CONSTRUCTION EQUIPMENT

PLEASE CONTACT

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