



April 11, 2024

Grant Parish Police Jury Roads Department
200 Main Street – Courthouse
Colfax, LA 71417

BID SUBMISSION – COMPACT EXCAVATOR

One New Hyundai HX40A hydraulic excavator powered by a Yanmar 4TNV88C, 37.9 hp diesel engine. Equipped with a canopy cab, 14" (350mm) rubber tracks, vinyl seat, 4 way angle dozer blade, 2-tine hydraulic thumb, 12" digging bucket and 24" digging bucket, quick coupler, and all other standard equipment. All equipment and accessories, except the additional bucket, come factory installed. Machine operating weight as configured: 9,440 lbs with a maximum digging depth of 141".

3 Year 3,000 Hour Standard Warranty
No Travel Time and No Mileage for Warranty Work

Machine Price Including Delivery	\$ 66,976.89
Trade in Allowance for 2004 Case CX31	<u>\$ 14,000.00</u>
Sales Price Less Trade In	\$ 52,976.89



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Hyundai • Liebherr
Construction Equipment

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HD HYUNDAI CONSTRUCTION EQUIPMENT

HX40A SPECIFICATIONS

Net Power
37.7 hp (29.1 kW)
at 2,200 rpm

Operating Weight
9,680 lb (4,390 kg)

Bucket Breakout Force
9,835 lbf /
(ISO) 4,461 kgf

Arm Digging Force
4,541 lbf /
(ISO) 2,060 kgf

ENGINE

MODEL	YANMAR 4TNV88C		
Emissions certification	Tier-4 final		
Output	SAE	J1995 (gross)	39 hp (29.1 kw) @ 2,200 rpm
		J1349 (net)	37.9 hp (28.1 kw) @ 2,200 rpm
Displacement	cu.in. (cc)	133.64 (2,190)	
Number of cylinders	4		
Bore x Stroke	in. (mm)	3.46 (88) x 3.51 (90)	
Aspiration	Natural		

HYDRAULIC SYSTEM

Pump Type	Load Sensing System		
Maximum flow	gal (l)/min	26.2 (99.00)	
Maximum Pressure	psi (bar)	3,613 (254)	
AUXILIARY HYDRAULICS			
1st aux.	Flow	gpm (lpm)	21.1(79.87)
	Pressure	gpm (lpm)	3,613 (254)
2nd aux.	Flow	gpm (lpm)	10.1 (40.0)
	Pressure	gpm (lpm)	3,613 (254)

HYDRAULIC MOTORS

Travel	Two fixed displacement axial piston motors		
Swing	Fixed displacement axial piston motor		

RELIEF VALVE SETTINGS

Implement circuits	psi (bar)	3,699 (260)	
Travel circuit	psi (bar)	3,280 (230)	
Swing circuit	psi (bar)	2,990 (210)	

HYDRAULIC CYLINDERS

Number of cylinders bore diameter x stroke	Arm cylinder	in (mm)	3.15 x 1.77 x 2.61 (80 x 45 x 549)	
	Bucket cylinder	in (mm)	2.75 x 2.61 x 20.47 (70 x 45 x 520)	
	Boom swing cylinder	in (mm)	2.61 x 3.15 x 15.79 (45 x 80 x 401)	
	Dozer cylinder	in (mm)	1.97 x 3.74 x 5.98 (50 x 95 x 152)	
	Angle dozer cylinder	in (mm)	2.17 x 3.94 x 5.98 (55 x 100 x 152)	
	Angle swing cylinder	in (mm)	1.18 x 2.17 x 1.30 (30 x 55 x 33)	

TRAVEL SYSTEM

Drive motor	Two fixed displacement axial piston motors		
Reduction system	2 - stage planetary		
Max. travel speed	Low	mph (kph)	2.05 (3.3)
	High	mph (kph)	3.04 (4.9)
Gradeability	degrees	35	
Parking brake	Automatic, spring applied hydraulic released		
Traveling and steering	Two levers with pedals		
Engine throttle	Electric, dial type		

SWING SYSTEM

Swing motor	Fixed displacement axial piston motor		
Swing reduction	2 - stage planetary		
Swing brake	Automatic, spring applied hydraulic released		
Swing speed	rpm	9.9	

SERVICE REFILL CAPACITIES

Fuel tank	gal(l)	17.6 (66.8)	
Engine coolant	gal(l)	12.4 (46.8)	
Engine oil	gal(l)	2.5 (9.5)	
Hydraulic tank	gal(l)	1.8 (7)	
Hydraulic system	gal(l)	9.5 (36)	

UNDERCARRIAGE

No. of upper rollers on each side	1		
No. of lower rollers on each side	4		

OPERATING WEIGHT

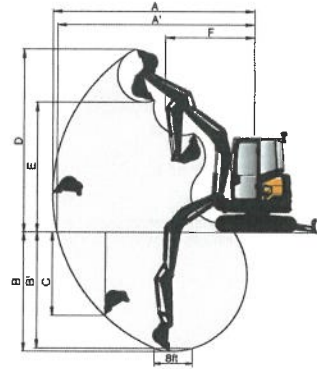
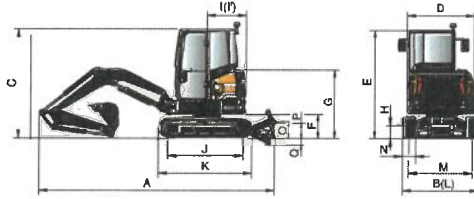
Operating weight (canopy)	lbs (kg)	9,410 (4,270)	
Ground pressure (canopy)	psi (kg/cm)	4.68 (0.33)	
Operating weight (cab)	lbs (kg)	9,680 (4,390)	
Ground pressure (cab)	psi (kg/cm)	4.82 (0.34)	

● : Standard / ○ : Option

ENGINE	CABIN	CANOPY
Electrical controlled Yanmar engine	● Adjustable Mechanical Suspension Seat	● 12V power socket
Double-element air filter	● Retractable seatbelt with warning alarm	● Side Mirror
Auto idling system	● Heating & Air Conditioning	● Cup holder
Water separator with filter	● Travel levers with foot pedals	● Horn
HYDRAULIC SYSTEM	Emergency hammer for exit	WORKING EQUIPMENT
Load-sensing hydraulic system	● Power-assisted front window	● Boom swing function
Two-speed travel with auto-shift	● Rear view camera	○ Arm with thumb bracket
Floating dozer blade	● LED beacon lamp	○ Hyundai quick coupler
Angle dozer blade	○ 5" Digital cluster with IP68 water & dust proof	● Quick coupler piping
Pressure accumulator	● Radio with USB	● Travel alarm
Proportional Aux. control	● 12V power socket	● Safety lock valves for Boom/Arm
1 way Aux. hydraulic line for breaker	● Side & Rear Mirrors	● Overload warning alarm
2 way Aux. hydraulic line for grapple	● Cup holder	● Travel & Swing motor
4 way Aux. hydraulic line for rotating	○ Pattern change valve inside cabin	● 1 LED work light on boom
Divert valve for 2 way hydraulic	● Horn	● 2 LED work lights on cabin
Adjustable Aux. flow control on cluster	● CANOPY	UNDERCARRIAGE
CABIN	ROPS (Roll-over Protective structure, ISO3471)	● Rubber track
ROPS (Roll-over Protective structure, ISO3471)	● OPS (Operator Protective Guard) Level 1	○ Steel track
OPS (Operator Protective Guard) Level 1	● Adjustable Mechanical Suspension Seat	● Interchangeability between rubber and steel track
FOG Guard	○ Retractable seatbelt with warning alarm	Telematics
	Travel levers with foot pedals	● Hi-Mate: Mobile (4G) Type
	5" Digital cluster with IP68 water & dust proof	●

DIMENSIONS & WORKING RANGE

HX40A



HX40A DIMENSIONS

Operating Weight	kg (lb)	4,390	9,680
A Overall length		5,425 (17' 10")	
B Overall width		1,740 (5' 9")	
Overall width with Dozer		1,740 (5' 9")	
C Overall height		2,525 (8' 3")	
D Overall width of upperstructure		1,700 (5' 7")	
E Overall height of cab		2,525 (8' 3")	
F Ground clearance of counterweight		555 (1' 10")	
G Overall height of engine hood		1,550 (5' 1")	
H Minimum ground clearance	mm	185 (0' 7")	
I Rear-end distance	(ft-in)	1,300 (4' 3")	
I' Rear-end swing radius		1,300 (4' 3")	
J Distance between tumblers		1,720 (5' 8")	
K Undercarriage length (without grouser)		2,185 (7' 2")	
L Undercarriage width		1,740 (5' 9")	
M Track gauge		1,390 (4' 7")	
N Track shoe width, standard		350 (1' 2")	
O Height of blade		380 (1' 3")	
P Ground clearance of blade up		400 (1' 4")	
Q Depth of blade down		480 (1' 7")	
Travel speed (low/high)	mph (kph)	2.05/ 3.04 (3.33/ 4.9)	
Swing speed	rpm	9.9	
Gradeability	Degree (%)	35	
Ground pressure	psi (kgf/cm)	4.82 (0.34)	
Max traction force	lb (kg)	6,640 (3,013)	

HX40A WORKING RANGE

Parameter	Unit	Value	Value
A Max digging reach	mm	5,525	(18' 2")
A' Max digging reach on ground	mm	5,390	(17' 8")
B Max digging depth	mm	3,420	(11' 3")
B' Max digging depth (8 ft level)	mm	3,010	(9' 11")
C Max vertical wall digging depth	(ft-in)	2,620	(8' 7")
D Max digging height	mm	5,360	(17' 7")
E Max dumping height	mm	3,945	(12' 11")
F Min swing radius	mm	2,260	(7' 5")
Bucket digging force	SAE	kN	39
		kgf	3,962
		lbf	8,735
	ISO	kN	44
		kgf	4,461
		lbf	9,835
Arm digging force	SAE	kN	20
		kgf	2,005
		lbf	4,421
	ISO	kN	20
		kgf	2,060
		lbf	4,541

Rating over-front Rating over-side or 360 degree

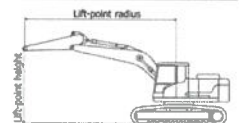
HX40A LIFTING CAPACITY

Unit : mm (ft-in)

2.6m (8' 6") boom, 1.3m (4' 3") arm, no bucket, equipped with 350mm (1' 2") rubber track, dozer down position.

Lift-point height (m/ft)		Lift-point radius								At max. reach		
		1.0m (3.3ft)		2.0m (6.6ft)		3.0m (9.8ft)		4.0m (13.1ft)		Capacity	Reach	
												m (ft)
4.0m	kg									*1,000	900	3.62
13.1ft	lb									*2,200	1,980	(11.9)
3.0m	kg							*950	780	*930	670	4.35
9.8ft	lb							*2,090	1,720	*2,050	1,480	(14.3)
2.0m	kg			*1,220	1,180	*1,040	760	*1,040	760	*910	590	4.72
6.6ft	lb			*2,690	2,600	*2,290	1,680	*2,290	1,680	*2,010	1,300	(15.5)
1.0m	kg			*1,630	1,110	*1,190	730	*1,190	730	*960	560	4.81
3.3ft	lb			*3,590	2,450	*2,620	1,610	*2,620	1,610	*2,120	1,230	(15.8)
0.0m	kg		*1,480	*1,480	*1,860	1,060	*1,280	710	*1,050	580	4.66	
0.0ft	lb		*3,260	*3,260	*4,100	2,340	*2,820	1,570	*2,310	1,280	(15.3)	
-1.0m	kg	*1,680	*1,680	*2,800	1,970	*1,800	1,050	*1,200	710	*1,070	660	4.22
-3.3ft	lb	*3,700	*3,700	*6,170	4,340	*3,970	2,310	*2,650	1,570	*2,360	1,460	(13.8)
-2.0m	kg	*3,070	*3,070	*2,200	2,010	*1,340	1,070			*1,050	920	3.37
-6.6ft	lb	*6,770	*6,770	*4,850	4,430	*2,950	2,360			*2,310	2,030	(11.1)

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



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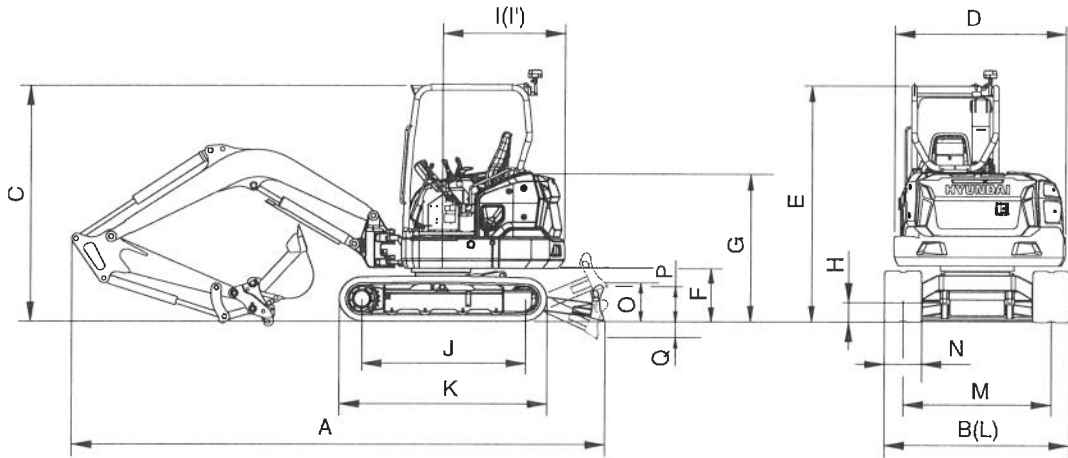
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HX40A 00 AF11/2023 v9b

2) CANOPY TYPE

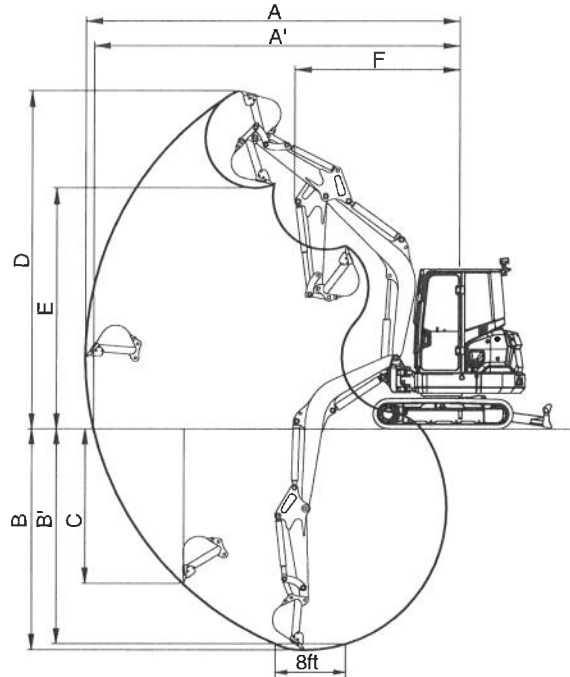
(1) 2.6 m (8' 6") boom, 1.6 m (5' 3") thumb bracket arm, rubber track, quick coupler



40A2SP05

Description	Unit	Specification
Operating weight	kg (lb)	4280 (9440)
Bucket capacity (SAE heaped), standard	m ³ (yd ³)	0.11 (0.14)
Overall length	A	5425 (17' 10")
Overall width, with 350 mm shoe	B	1740 (5' 9")
Overall width, with dozer	-	1740 (5' 9")
Overall height	C	2510 (8' 3")
Overall width of upper structure	D	1700 (5' 7")
Overall height of cab	E	2510 (8' 3")
Ground clearance of counterweight	F	555 (1' 10")
Overall height of engine hood	G	1550 (5' 1")
Minimum ground clearance	H	185 (0' 7")
Rear-end distance	I	1300 (4' 3")
Rear-end swing radius	I'	1300 (4' 3")
Distance between tumbler	J	1720 (5' 8")
Undercarriage length (without grouser)	K	2185 (7' 2")
Undercarriage width	L	1740 (5' 9")
Track gauge	M	1390 (4' 7")
Track shoe width, standard	N	350 (1' 2")
Height of blade	O	380 (1' 3")
Ground clearance of blade up	P	400 (1' 4")
Depth of blade down	Q	480 (1' 7")
Travel speed (low/high)	km/hr (mph)	3.3/4.9 (2.1/3.0)
Swing speed	rpm	9.9
Gradeability	Degree (%)	35 (70)
Ground pressure	kgf/cm ² (psi)	0.33 (4.69)
Max traction force	kg (lb)	3013 (6640)

2) 2.6 m (8' 6") BOOM, WITH QUICK COUPLER



40A2SP10

Description		Unit	1.6 m (5' 3" Arm)
Max digging reach	A	mm (ft-in)	5690 (18' 8")
Max digging reach on ground	A'		5560 (18' 3")
Max digging depth	B		3590 (11' 9")
Max digging depth (8ft level)	B'		3200 (10' 6")
Max vertical wall digging depth	C		2450 (8' 0")
Max digging height	D		5530 (18' 2")
Max dumping height	E		3780 (12' 5")
Min swing radius	F		2260 (7' 5")
Boom swing radius (left/right)		degree	75°/55°
Bucket digging force	SAE	kN	33 [36.2]
		kgf	3358 [3690]
		lbf	7403 [8135]
	ISO	kN	35 [39.4]
		kgf	3653 [4020]
		lbf	8053 [8863]
Arm crowd force	SAE	kN	18 [20.1]
		kgf	1862 [2050]
		lbf	4105 [4519]
	ISO	kN	19 [20.6]
		kgf	1908 [2100]
		lbf	4206 [4630]

[] : Power boost