



# MINI EXCAVATOR

# YW31ME



## MINI EXCAVATOR

AMOUNT	2
BRAND	YANWA
MODEL	YW31ME
ORIGIN	CHINA
YEAR	2023
OPERATIONAL WEIGHT	3100KG

## ENGINE

BRAND	YANWA
MODEL	3YM21,5NA
CYLINDERS	3 IN LINE
COMBUSTION	INTERNAL 4 TIMES
FUEL	DIESEL
SUCTION SYSTEM	NATURAL
INJECTION SYSTEM	DIRECT
CYLINDER CAPACITY	1331 CC
NET POWER	21.5 HP @ 2200RPM
TORQUE	87 NM @ 1200RPM
FUEL TANK CAPACITY	40LT
EMISSIONS	TIER III



## HYDRAULIC SYSTEM

### VARIABLE FLOW AXIAL PISTON PUMP (X2)

MAIN SYSTEM - MAXIMUM FLOW	537.2 L/MIN(74.4 L/MIN × 2 PUMPS)
MAXIMUM PRESSURE	210 KGF/CM2 (205 BAR)

### ROTARY GEAR PILOT PUMP

MAXIMUM FLOW	10.8 L/MIN
RELIEF VALVE ADJUSTMENT	21.6MPA
HYDRAULIC TANK CAPACITY	30LT

## TRANSMISSION

HILL CLIMBING	30°/59%
SPEEDS	LOW HIGH
LOW SPEED	2.6 KM/H
HIGH SPEED	4.6 KM/H

## UNDERCARRIAGE

SHOE TYPE	ERASER
NUMBER OF TRACK ROLLERS (EACH SIDE)	4
NUMBER OF TOP ROLLERS(EACH SIDE)	1
RUBBER SHOE WIDTH	300MM
UNDERCARRIAGE OVERALL LENGTH	2100MM

## ROTATION MECHANISM

ROTATION SPEED	9.67RPM
BACK ROTATION RADIUS	775MM

## PESOS

OPERATING WEIGHT WITH CAB	3100KG
OPERATING WEIGHT WITH ROOF FRAME	2980KG
GROUND PRESSURE WITH CAB	0.29 KGF/CM2
GROUND PRESSURE WITH ROOF FRAME	0.28 KGF/CM2

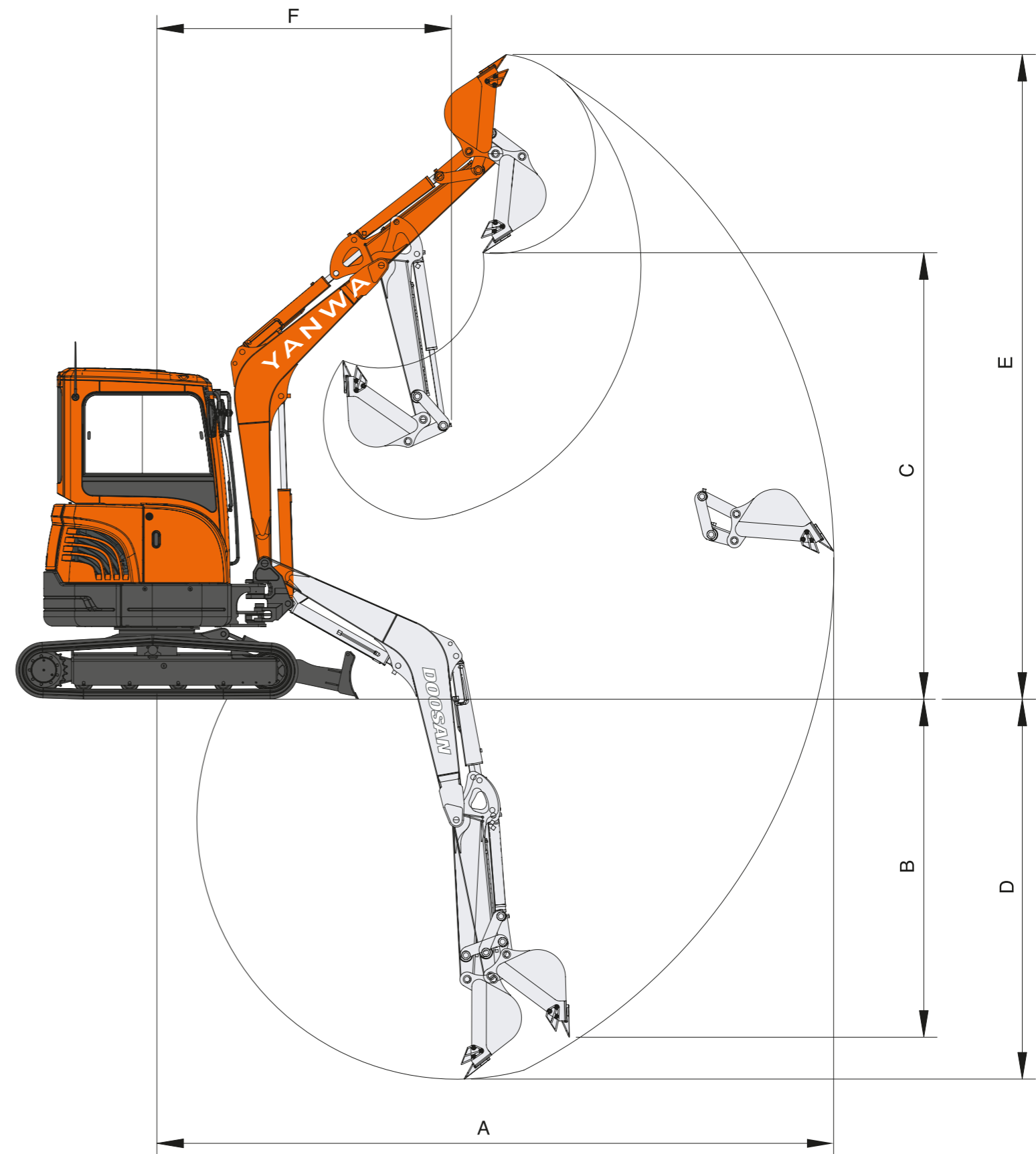
## OPERATING RANGES

BOOM LENGTH - 2280 MM

ARM LENGTH - 1300 MM

BUCKET CAPACITY 0.09 M<sup>3</sup>

A) MAXIMUM DIGGING REACH	4984MM
B) MAXIMUM HEIGHT OF THE DEPTH OF THE WALL	2383MM
C) MAXIMUM LOADING HEIGHTL	2948MM
D) MAXIMUM DIGGING DEPTH	3185MM
E) MAXIMUM DIGGING HEIGHT	4618MM
F) RADIUS OF GYRATION	2200MM
DISCHARGE HEIGHT	3210MM
BUCKET DIGGING FORCE	2.80 KGF / 27.5 KN
ARM DIGGING FORCE	1.70KGF / 16.7KN
ROTATION ANGLE RIGHT	50°
ROTATION ANGLE LEFT	70°



## CABIN

TYPE	CLOSED SOUNDPROOF
SECURITY	ROPS / TOPS
VENTILATION	INCLUDES
ADJUSTABLE / ERGONOMIC SEAT)	INCLUDES
2 POINT SEAT BELT	INCLUDES
REAR VIEW MIRRORS	INCLUDES
ANTI VANDALISM LOCKS	INCLUDES
RADIO (BLUETOOTH+AM/FM+USB)	INCLUDES
ADJUSTABLE STEERING WHEEL	INCLUDES
NOISE INSIDE THE CABIN	81DB(A)
NOISE OUTSIDE THE CABIN	93DB(A)

## ELECTRIC SYSTEM

VOLTAGE	12 VOLT
ALTERNATOR	40A
BATTERY VOLTAGE	12V

### ELECTRICAL SYSTEM - INCLUDES

TWO NIGHT WORK LIGHTS ON THE CAB – ONE ON THE BOOM	INCLUDES
ELECTRIC HORN	INCLUDES
BACKUP ALARM	INCLUDES

## DASHBOARD

EQUIPMENT CONTROLS	INCLUDES
INDICATOR LIGHTS (ALERT)	INCLUDES
TACHOMETER	INCLUDES
HYDROMETER	INCLUDES
HOUR METER	INCLUDES
SPEEDOMETER	INCLUDES
TEMPERATURE METER	INCLUDES
WARNING LIGHTS	INCLUDES
BATTERY WARNING LIGHTS	INCLUDES
ENGINE WARNING LIGHTS	INCLUDES
ENGINE OIL WARNING LIGHTS	INCLUDES
PARKING BRAKE WARNING LIGHTS	INCLUDES
SEDIMENT INDICATOR	INCLUDES
INDICATOR AIR FILTER	INCLUDES


## SERVICE FILLING CAPACITY

FUEL TANK CAPACITY	40LT
REFRIGERATION SYSTEM	3.5LT
MOTOR OIL	5.5LT
HYDRAULIC RESERVOIR	30LT
MINIMUM LOADING HEIGHT	2170MM
MAXIMUM DEPTH OF CUT TO OBTAIN A HORIZONTAL BOTTOM OF 2440 MM (8'0")	6550MM
MAXIMUM DIGGING DEPTH ON A VERTICAL FACE	5,190MM
BUCKET BREAKOUT FORCE (ISO)	15336 KGF /150 KN
ARM BREAKOUT FORCE (ISO)	10910 KGF / 107 KN
BUCKET BREAKOUT FORCE (ISO) – DIGGING REINFORCEMENT	16651 KGF / 163 KN
STICK BREAKOUT FORCE (ISO) – DIGGING REINFORCEMENT	11775 KGF / 115 KN

## TOOLS (1 KIT PER ROAD TEAM MINI-EXCAVATOR)

HYDRAULIC BOTTLE JACK	5 TONS ACTION LEVER JACK KEY
TYPE I WHEEL WRENCH	32X30 FORCE LEVER
TOOLBOX	PLIERS SCREWDRIVER PHILLIPS SCREWDRIVER 10" SPANNER COMBINATION WRENCHES (10 TO 23)MM
EXTINGUISHER	PQS TYPE CLASS A,B,C FIRES 10 KG
MEDICINE CABINET	ANTISEPTIC ALCOHOL OXYGENATED WATER POROUS ADHESIVE TAPE GAUZE COTTON BANDAGE (1 TRIANGULAR -1 LONGITUDINAL) SCISSORS ANALGESICS (PARACETAMO IBUPROFEN) GLOVES
FLASHLIGHT	LED TYPE
SAFETY TRIANGLES 2 UNITS	2 UNITS 50 CM EACH SIDE FLUORESCENT SURFACE ABS MATERIAL RED REFLECTIVE PLATE POLYETHYLENE BASE (WEIGHT 2KG)

**BOOM: 2280 MM - ARM: 1300 MM - BUCKET: SAE 0.09 M3 - SHOE: 300 MM**

A (m)	2				2,5				3				3,5				Izado máx.						
	Hoja arriba		Hoja abajo		Hoja arriba		Hoja abajo		Hoja arriba		Hoja abajo		Hoja arriba		Hoja abajo		Dozer up		Hoja abajo				
																			A (m)			A (m)	
3										0,46	0,46	0,46	0,46	0,52	0,38	0,52	0,38	0,52	0,35	3,63	0,54	0,35	3,63
2,5										0,51	0,50	0,51	0,50	0,53	0,38	0,53	0,38	0,46	0,31	3,92	0,56	0,31	3,92
2					0,66	0,66	0,66	0,66	0,61	0,49	0,61	0,49	0,55	0,38	0,58	0,38	0,42	0,28	4,11	0,58	0,28	4,11	
1,5					0,92	0,63	0,92	0,63	0,70	0,48	0,74	0,48	0,55	0,37	0,65	0,37	0,40	0,27	4,22	0,60	0,27	4,22	
1					0,92	0,61	1,17	0,61	0,69	0,46	0,88	0,46	0,54	0,36	0,74	0,36	0,39	0,26	4,26	0,63	0,26	4,26	
0,5					0,90	0,59	1,34	0,59	0,68	0,45	1,00	0,45	0,53	0,36	0,81	0,36	0,39	0,26	4,22	0,66	0,26	4,22	
0 (suelo)	1,29	0,82	1,29	0,82	0,89	0,58	1,43	0,58	0,67	0,45	1,07	0,45	0,53	0,35	0,86	0,35	0,41	0,27	4,11	0,69	0,27	4,11	
-0,5	1,30	0,83	1,90	0,83	0,89	0,58	1,44	0,58	0,67	0,44	1,09	0,44	0,52	0,35	0,87	0,35	0,44	0,30	3,91	0,73	0,30	3,91	
-1	1,31	0,83	1,92	0,83	0,89	0,59	1,39	0,59	0,67	0,44	1,06	0,44	0,53	0,35	0,83	0,35	0,50	0,34	3,61	0,78	0,34	3,61	
-1,5	1,33	0,84	1,70	0,84	0,90	0,59	1,24	0,59	0,67	0,45	0,93	0,45					0,62	0,41	3,18	0,83	0,41	3,18	

INDICATES LOAD IS LIMITED BY HYDRAULIC LIFT CAPACITY RATHER THAN TIPPING LOAD. THE ABOVE LOADS MEET SAE J1097 HYDRAULIC EXCAVATOR LIFT CAPACITY STANDARD. THEY DO NOT EXCEED 87% OF THE HYDRAULIC LIFTING CAPACITY\* OR 75% OF THE TIPPING LOAD. THE WEIGHT OF ALL LIFTING ACCESSORIES MUST BE SUBTRACTED FROM THE ABOVE LIFTING CAPACITIES. LIFT CAPACITIES ARE BASED ON POSITIONING THE MACHINE ON A FIRM, LEVEL SURFACE. USING AN IMPLEMENT HITCH POINT TO HANDLE/LIFT OBJECTS COULD AFFECT THE LIFTING PERFORMANCE OF THE MACHINE.





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