

# BACKHOE LOADER

## ALL TERRAIN

YUCHAI  
WEICHAI

**CUMMINS**

### Description

ZB388H using key components from world-renowned brands. Cummins or WeiChai or YUCHAI engine, Tier 2, Tier 3 and Tire 5 emission standard options. 4 wheel drive and **4 wheel steering** system can make sure ZB388H passing most of the hard road condition.

### Features

**Outriggers** - Two outrigger type options, Mid-mounted wing type and Vertical side-shift type, can meet the preferences of different customers.

**Wet-brake** - Full hydraulic maintenance-free wet brake axle, dual-pedal control, with unilateral braking, realizes in-situ steering, adapts to smaller working space,

**Higher loading performance** - The forward-rotating eight-link loading working device has high dumping height, large breakout force, high bucket stability and high work efficiency.

**Higher digging performance** - High-strength structure design digger working device, key components are thickened and reinforced, can be equipped with a variety of work accessories, standard equipped with a hydraulic system of breakers, and work efficiently.

**Extended digger arm(option)** - On the basis of standard configuration, an extendable arm can be selected to meet higher work requirements.

**Easy maintenance** - Easy retilling from ground level for hydraulic oil and fuel, easy and quick lubricating points.

**Warranty and service** - Backed by a comprehensive warranty, service extended warranty period.



### QUICK VIEW

Model	Engine (std)	Power (HP)	Brake type	Cabin	Tire size	Bucket m³ / ft³	Extending dipper
ZB388H	YC4A105Z-T20	105	Wet	ROPS, A/C	14-17.5 19.5L-24	1.0 / 0.3 m³ 35.31 / 10.6 ft³	/
ZB388H-1	YC4A105Z-T20	105	Wet	ROPS, A/C	14-17.5 19.5L-24	1.0 / 0.3 m³ 35.31 / 10.6 ft³	standard

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Engine		Std
	Unit	YC4A105Z-T20
Manufacturer		YUCHAI
Emission std		Non-Road China National II
Aspiration		Turbocharged
Displacement	L / in³	4.84L / 295 in³
No. of cylinders		4
No. of stroke		4
Bore x Stroke	mm	108 x 132
	in	4.25 x 5.20
Rated engine	rpm	2300
<b>Power ratings</b>		
Gross	HP (kW)	105(75)
<b>Maximum torque</b>		
Rated	Nm	420
Max	rpm	1600-1800
Min fuel consumption@full load	g/kW.h	≤205
Fuel injection pump		Mechanical pump
Engine form		Vertical, in-line, water-cooled, direct injection
Fuel type		Diesel

Operating weight		
Standard weight with cabin	kg	10050

Hydraulic system		
Working pump flow	ml/r	63
Working pump pressure	Mpa	20
Steering gear model		BZZ5-250

Torque converter		
Model		315
Cooling Method		Oil-cooling Pressure Circulation

Transmission		
Type		Mechanically Operated Hydraulic Synchronized Shift
<b>Travel speeds</b>		
Gears	Forward	Reverse
1st	5 km/h	5 km/h
2nd	10 km/h	10 km/h
3rd	18 km/h	18 km/h
4th	32 km/h	32 km/h



## Brakes

Manufacturer	SEM
Service Brake	Wet, multi-disc
	Internal Type
	Self-regulation
	Self-balance
Emergency Brake	Spring brake / hydraulic terminating brake
	Manual operation power terminating brake

## Tyres

Manufacturer	ARMOUR
Type	Tubeless Nylon
Front / rear	16.9-28

## Cabin

### Standard

ROPS high-strength cab designed in order to offer the best visibility, ergonomics, low noise and comfort. Two doors, full opening rear window with front and rear windscreen wipers. Internal lay out includes full adjustable seat, fresh filtered air intake ventilation and easy to read front and side dash board.

## Frame chassis

The frame is a reinforced and closed box structure, which increases stiffness and reliability.

## REFILLS

Engine oil(YUCHAI)	L / gal	10L	2.64 gal(US)
Cooling system	L / gal	17L	4.49 gal(US)
Fuel tank	L / gal	125L	33.02 gal(US)
Hydraulic oil tank	L / gal	125L	33.02 gal(US)
Front axle oil	L / gal	9L	2.38 gal(US)
Rear axle oil	L / gal	20L	5.28 gal(US)
Torque converter	L / gal	20L	5.28 gal(US)

## Loader

### Standard

Bucket width	mm / in	2620 mm	103.15 in
Bucket capacity	m³ / ft³	1.2 m³	42.38 ft³
Lifting capacity at max. height	kg / lb	2500 kg	5511 lb
Breakout force	kN	65	
Lifting Time	s	≤5.5	
Lowering Time	s	≤3.0	
Discharge Time	s	≤2.0	

## Excavator

### Standard

Bucket body width(std)	mm / in	560 mm	22.05 in
Bucket tooth edge width(std)	mm / in	650 mm	25.59 in
Bucket capacity	m³ / ft³	0.3 m³	10.6 ft³
Bucket breakout force	kN	62	
Stick breakout force	kN	44	

## Dimensions

overall length (bucket on ground)	mm / in	6450 mm	298.03 in
overall width (with bucket)	mm / in	2650 mm	88.58 in
overall height (digging boom top)	mm / in	3940 mm	155.12 in
cab top height	mm / in	3120 mm	118.5 in
wheel base	mm / in	2335 mm	89.13 in
wheel tread	mm / in	2139 mm	84.21 in
Turning radius (tire outer edge)	mm / in	5750 mm	226.38 in

### Loader performance

max dumping height (41° dumping angle)	mm / in	3050 mm	120 in
max dumping reach (0°)	mm / in	870 mm	34.25 in
dumping angle	°	45	
rollback angle	°	55	
<b>Collecting bucket angle</b>			
- transport	°	47.7	
- ground	°	50	
digging depth	mm / in	32	1.26 in

### Excavator performance

models		ZB388H	ZB388H-1
max. loading height	mm / in	3740 mm / 136.61 in	4983 mm / 196.18 in
max. digging height	mm / in	5470 mm / 215.35 in	6680 mm / 263 in
max. digging radius	mm / in	5345 mm / 210.43 in	6550 mm / 257.84
max digging depth	mm / in	3820 mm / 150.4 in	4970 mm / 195.67 in
lifting force at max. digging radius	kg	1220	1220
bucket rotation	°	190°	190°



Structure and specification are subject to change without notice. In case there is any difference between the description of the machine and the substantial machine, the substantial machine should govern.

## Standard

- YUCHAI Non-Road II turbo engine
- ROPS, Air conditioning cabin
- 4 wheel steering
- 4 wheel drive
- Foot pedal and hand control accelerator
- Horn
- Maintenance free battery
- Main power switch
- Antifreeze
- Front and rear working lights
- Lights for road travel
- Rotating beacon
- External rear-view mirror
- Deluxe pneumatic suspension seat with safety belt
- Tinted glass
- Front and rear washer and windshield wipers
- Internal storage compartments
- Cup holder
- Sun visor
- Fully opening bonnet
- External lockable toolbox
- Dry type air cleaner
- Fuel filter with integrated water separator
- Gauges & indicators
- Front tyres: 14-17.5
- Rear tyres: 19.5L-24
- General purpose bucket with standard teeth
- Electro-hydraulic backhoe boom lock
- Backhoe swing transport lock
- Outrigger rubber cushions
- Reverse camera
- Hydraulic pipe system for hammer

## Options

- WEICHAH engine WP4G95E221, 95HP
- Cummins engine 4BTA3.9-C100-II, 100HP
- Cummins engine QSB3.9-C100-31, 100HP
- Yuchai Non-Road III turbo engine
- Xinchai Non-Road V turbo engine
- Loader part - quick coupler
- Loader part - triple hydraulic line(valve)
- Loader part - fork
- Loader part - 4 in 1 bucket(must choose triple valve)
- Loader part - 6 in 1 bucket(must choose triple valve)
- Loader part - wood clamp(must choose triple valve)
- Loader part - grass clamp(must choose triple valve)
- Loader part - snow shovel(must choose triple valve)
- Loader part - dozer blade(must choose triple valve)
- Loader part - quick change bucket
- Dipper part - quick coupler (mechanic)
- Dipper part - quick coupler (hydraulic)
- Dipper part - break hammer
- Dipper part - auger(φ300mm, drill depth 1500mm)
- Dipper part - auger(φ600mm, drill depth 2000mm)
- Dipper part - extending boom
- Dipper part - grabber
- Dipper part - width 300/400/600mm bucket
- Dipper part - LCD monitor
- Dipper part - Oil bath filter
- Open type cabin
- Common cabin without ROPS

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