

JB40R Diesel Concrete Mixer with Pump



Brief description:

Hoisting bucket type Mixing Concrete Pump is our company's patented product in 2008. It combines the concrete mixer and concrete pump together, achieving integration of pump station. It is most suitable for the houses and commercial buildings under 30 floors, small bridges, water conservancy, power and communication for which the sites are scattered and on-site mixing is required.

It has the advantages of rapid and flexible, convenient to move, high speed, labor saving, etc

Main advantages:

- Hydraulic valves is Beijing Huade(Chinese best brand),
- Main pump is Kawasaki Brand
- Sealing American Parker brand
- Hydraulic Hose is Italy Manuali
- electric elements are France Schneider brand,
- PLC Japanese OMRON brand,
- The mixer drum made by Q345B strengthened plate (6mm thickness), and pipe by high wear-resistant steel

Main features: Main features:

- It combines mixer and pump together, easy and flexible to move, high mobility.
- It can be done by only one operator to control complete mixing and pumping, saving labors.
- The machine has two functions. Mixer and pump can work independently; also can join each other quickly without dismantling the machine.
- As long as the amount of the stone of which the size is over 40mm is not more than 20% of the total amount, this machine is workable after screening.
- Pull rail connection between mixer and the pump makes it easy to replace the piston.
- The frame of the machine is designed to be telescopic, can be adapted to narrow roads and streets.
- Adopting double open circuit hydraulic system
- Relay integrated electric control system is simple and reliable and ensures the discharging efficiency
- Independent cooling system, the cooling efficiency is high; automatic lubrication system, fuel efficient and reliable
- The drum friction wheel is driven synchronously by double bevel gear shaft; it is reliable and non skid.

Technical performance:

①Hydraulic System:

- ◆ Double open hydraulic loops (pumping hydraulic circuit is independent of distributing hydraulic circuit) with two pumps, makes the whole hydraulic system much simpler. The reliability of the whole system is also much higher as well as the components' life is prolonged greatly. This is convenient for judging and removing trouble.
- ◆ Large valve changing direction, makes the main pumping loop quick



response, small leakage, good stability, high reliability and high resist contaminative capability.

- ◆ Hydraulic system has safe relief protection, at the same time, when the system pressure is over; the main oil pump cutting device makes itself be protected reliably.
- ◆ Distributing hydraulic circuit adopts constant pressure pump, which can provide strong distributing pressure and economic energy control.
- ◆ Cone sealing of all pipes make the pipe joints seal reliably.
- ◆ The high-low pressure switch adopting cartridge valve of reduces the trouble of dismantling and installing the oil pipe.
- ◆ Adopt emulsification technology of initiative and passivity recovery integration.

② Electric control system

- ◆ Compared with domestic product, the electric control system is simplest, the element quantity is fewest and its reliability is highest.
- ◆ The wireless remote equipment is convenient for operation far away.
- ◆ Adopting proximity switch in hydraulic cylinder can realize changing direction with non-touch, which ensures that the direction can be changed reliably.



③ Mechanical system

- ◆ The design of hopper and S valve and so on adopt I—DEAS software to caculate, the hopper and S valve have good rigidity to avoid the phenomenon of hopper distortion and S valve breakage.
- ◆ The agitator have unique form, which separates the hydraulic motor from agitator bearing pedestal. At the same time, adopting large displacement motor ensures that the agitator moment is big enough.
- ◆ To make sure the pumping is good and declines the phenomenon of pipe jam, the spectacles wear plate and cutting ring should be useed in lower abrasion. Changli's spectacles wear plate and cutting ring use high wear material, making the components' life prolonged greatly.



④ Lubrication system

The hydraulic circuit will take high oil into double distributor, and then the lubricating part can obtain hydraulic oil. It ensures the lubrication of the concrete cylinder's piston and other parts and prolongs the life of piston and other sealings.

⑤ Cooling system

The radiator equipment makes the working oil temperature of hydraulic system below 70°C and makes the machine in normal status.

I. Technical Parameters

Items		Units	Parameters
			JB40R
Whole performance of machine	Pump Max. theo. concrete output	m ³ /h	40
	Charging (hopper)capacity of mixer	m ³	0.56
	Discharging capacity of mixer	m ³	0.35
	Max.concrete pumping pressure	MPa	10
	Distribution valve type		S Valve
	Concrete cylinder diameter stroke	mm	Φ160×1000
	Hopper capacity	L	400
Power system	Outlet diameter	mm	Φ125
	Diesel engine model	--	Weichai
	Electrical engineering power	kW	82
	Rotate speed	r/min	2300
Hydraulic system	Circuit type		Open circuit
	Pumping system pressure	MPa	31.5
	Mixing system pressure	MPa	6
	Capacity of oil tank	L	350
The biggest transportation is away from vertically (/horizontal)		m	150/600
	Mixer capacity	M3/h	10-14m3/h
	Max. aggregate diameter	mm	40
Other parameters	Inside diameter of delivering pipe	mm	Φ125
	Dimensions: length×width×height	mm	6000x2300x3150
	Total weight	kg	5800kg
	Tire	Pcs	4