



Shandong Rhinoceros Engineering Machinery CO., LTD

TOWED CONCRETE PUMP: HBT-80C

SCOPE OF APPLICATION

This machine is to convey the concrete to the construction site or other places by horizontal or vertical steel pipes, which save much labor cost and improve the work efficiency. It is widely used in the construction site of high building, municipal construction, electric power, energy, civil and industrial architecture or narrow working site on which needs large demands, high standard concrete.

MAIN FEATURES:

ZHB series mobile concrete pump is with high standard and configuration. The hydraulic system adopt open circuit, and with the features of high efficiency, good heat dissipation, working smooth and steady. The main pump, valve and the connecting are originally imported from German, Rexroth brand. Italy Manuli oil pipes. All the parts and oil pipes are better arranged on the machine and with full-automatic central oiling system, each oiling place are oiled as requested controlled by computer, which can highly save lub oil. Main electrical equipments are imported with original packaging, PLC programmable controller. The machine is adopted low tension control technology, wireless remote control, hommization control panel. The concrete pump is also with the features of constant power control of the pumping system, percent speed regulation of the pumping speed, auto anti-pumping when the pipes are blocked up. The S type distributing valve is with floating high hardness wear-resisting ring and alloy wear plate, which can extremely prolong the using time. Unique distribution, beautiful designing makes the machine compact, light weight and easy to operate, maintain and repair.

1. HYDRAULIC SYSTEM

1.1 This machine adapt open type hydraulic system, the main pumping oil-way and S valve swing oil-way are mutually independent, which make the whole system simple, extend the component lift span, increase the stability, and finally much convenient to detect and remove the faults.

1.2 In order to remove the weakness of open type system of high shock when reversing, the reversing of main pumping oil-way system adopt main reversing valve extrocontrol pilot valve to decrease the pressure, lower the reversing shock. The reversing of main pumping oil-way system are more stable and reliable.

1.3 Pumping hydraulic system have the protection of overflow, at the same time, main pump have auto cut-off equipment when the pumping system is overpressured. The main pump acquire multi-stage protection.

1.4 Constant pressure pump supply oil to swing oil-way, the swing oil-way is with the feature of high swing power and energy conservation.

1.5 All the oil pipes joint are reliablly sealed by adopting conical surface sealing or imported rectangle sealing.

2. ELECTRONIC CONTROL SYSTEM

The main features of electronic control system is advanced technology, simple and high reliability.

2.1 The electrical components are high reliable because 90% components are originally imported from German, Simens brand, French, Schneider brand.

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2.2 The electronic system are much more simple, higher reliable compared to domestic like products.

2.3 The equipments are with wire less remote control device, easy to remote handling.

2.4 The reversing is more reliable and faster by using proximity switch to non-contact reversing.

3. ELECTROMAGNETISM DISTRIBUTING SYSTEM(MINGXING SYSTEM)

3.1 The key force-summing components like the hopper, S type valve and so on tested by the mechanical engineering mechanics accounting routine. The main components are with high strength which prevent the phenomenon such as deformation of hopper, broken of S type valve happened in the like products when deliver to high level.

3.2 Mixing system use unique form of isolating the hydraulic motor from the mixing bearing pedestal. Even if the mixing seal leak, it do not influence the working of hydraulic motor. At the same time, it can prevent the out of sync of two motors when the concrete is not well-distributed by using one motor.

3.3 With the years of striving to make technological breakthrough, the wear-out part such as wear plate and the cutting ring are much more durable.the lift span can reach 20000 m2 when the pumping system goes well.

4. LUBRICATING SYSTEM

Lubricating system adopt centralize self-lubricating method. It is much more durable by installed the gauges of pressure increment and impurity filter on the outlet of lubricate pump.

5. COOLING SYSTEM

The concrete pump adopt forced cooling big radiator in order to keep the oil temperature of the hydraulic system under 60 degree, so that to keep in normal working condition all the time.

MAIN SPECIFICATION:

ITEM		UNITS	SPECIFICATIONS		
Active force		kw	110		
Loading material height		mm	1400		
Main oil pump	Rated operating pressure	Mpa	32		
	Rated operating displacement	L/min	473		
Max. delivery value	High pressure small delivery amount	m ³ /h	60		
	Low pressure high delivery amount		80		
Max. pumping pressure	High pressure	Mpa	15.7		
	Low pressure		9.2		
Max. conveying distance	Pipe diameter	150mm	m	Level 1100	Vertical 270
		125mm	m	Level 1000	Vertical 250
Max. aggregate size	Pipe diameter	150mm	mm	50	
		125mm	Mm	40	
Distributing valve type			S type pipe valve		
Cylinder bore / stroke		mm	200x1800		

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Bycket capacity	m ³	0.6
Discharge hole diameter	mm	180
Soft starter		Yes
Oil-way type		Open circuit
Pumping system oil pressure	Mpa	34
Distribution system oil pressure	Mpa	23
Mixing system oil pressure	Mpa	14
Max. mixing rotate speed	r/min	32
Air fan rotate speed	r/min	3200
Max. aggregate size	mm	Cobble stone: 50 Gravel: 40
Concrete pipe internal diameter	mm	125/150
Alternator/engine model		Y315S-4
Alternator/engine power	kw	110
Rated voltage	v	380
Rated speed	r/min	1500
Dimension(LxWxH)	mm	6200*2000*1800
Total weight	kg	6500
Towing speed	km/h	8

MACHINE PHOTOS





