

# 永州翊翔机电设备有限公司

YONG ZHOU YI XIANG MACHINERY & EQUIPMENT LTD.



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翊翔机电

# HBT100.16.195RS 输送泵

Main Technical Data

Items		Units	Parameters
			100.16.195RS
Whole performance of pump	Max. theo. output	m <sup>3</sup> /h	100/70
	Concrete pressure	MPa	16/11
	Distributing valve style		S pipe valve
	Concrete cylinder size: diameter × stroke	mm	Φ200×2100
	Hopper capacity × feeding height	L × mm	800×1400
	Outlet diameter	mm	Φ180
Power system	Motor model		TAD721VE
	Motor power	kW	195
	Min. permitted rotation speed	r/min	600
	Max. permitted rotation speed	r/min	2300
Hydraulic system	control type		closed circuit
	Pumping system pressure	MPa	34
	Distributing system pressure	MPa	23
	Mixing system pressure	MPa	14
	Max mixing speed	r/min	42
	Capacity of oil box	L	300
Other parameters	Capacity of oil box	L	250
	Max. grain diameter	mm	Slick scree:50 crushed grain:40
	Inside diameter of delivering pipe	mm	Φ125/Φ150
	Dimensions, length × width × height	mm	6760×2100×2840
	Weight	kg	7500

※ Engine TAD721VE can meet the requirement of environment protection Tier 2.



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## 1.hydraulic system:

- ① Both the main pumping circuit and “S” valve circuit are closed-circuit , each is driven by a pump , which makes the two circuits independent to each other . The simplified system results in a long service life, high reliability and easier troubleshooting.
- ②The main pumping circuit is a parallel connection closed-circuit driven by two hydraulic pump made in “REXROTH” Germany, the main characteristic of this pump is “zero” shock when switching, thus the damage due to excessive pressure peak valve can be avoided.
- ③ Supplied oil by the constant pressure pump and an accumulator , the swivel cylinder can get enough moment , and save power at the same time .
- ④all imported seals kits can ensure higher reliability and have a longer lifetime than ever.

## 2.Electrical system:

Features advanced technology, effortless operation, and high reliability.

- ①Comes with a Programmable Logic Controller (PLC) , which takes the place of many relays , time relays , which not only greatly reduces components but also simplifies wiring in the system , ensures a higher reliability , In combination with PLC a visual display can indicate the status of inputs and outputs , lead to an easier troubleshooting
- ②90% of the electrical components come from the world-class brands, which guarantees reliability.
- ③Equipped with remote controller, of which Zoomlion possess the intellectual property ,makes it convenient to operate from a long distance .
- ④ Fitting the proximity switches can realize contactless automatic direction changeover reliably when pumping



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### **3.The system of distributing valve of mechanical agitation:**

①During the designing of key parts , such as “S” pipe distribution valve ,hopper , software I-DEAS is adopted to realize Finite Element analysis of load distribution , construction rigidity and stress concentration . Owing to its excellent rigidity and process technology, the optimized hopper and “S” valve system can effectively avoid the following phenomena like hopper distortion and breakage of “S” piping valve shaft during high pressure conveying.

②By a special design on sealing structure of agitator , hydraulic motors are completely separated from bearing seats , even under the situation of sealing failure, the slurry has no chance to get into motor. High -torque motors ensure high mixing torque. Thanks to the auto- reversing device and anti- wearing blades, the blockade will never happen even under severe aggregate condition.

③the wearing parts, such as the anti-wearing plate and the cutting ring ,have a long service life up to 70000 m<sup>3</sup> under favorable condition

### **4.power system**

Diesel engines. Equipped with electronic accelerator device.

### **5.Lubrication system:**

The patented central automatic lubrication system comes with a piston grease-pump, features high pressure and reliability, which can realize automatic lubrication of conveying piston, The filters in the suction and pressure lion of pump as double protections guarantee the system reliability.

### **6. Cooling system:**

Compulsory air-cooled heat exchanger keeps the temperature of the hydraulic system below 70℃ , that ensures the whole hydraulic system works at normal status.

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