



郑州高德机械设备有限公司

Gaode Equipment Co., Ltd.

地址 ADD: 郑州市金水区丰庆路 4 号院 14 号楼 9 号

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No.9, Building 14, Yard No.4, Fengqing Road, Jinshui District, Zhengzhou, Henan China

网站 (Web) : www.gaodetec.com

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GF30A Hydraulic high-pressure type lightweight concrete work plant

I. Machine performance:

1. Lightweight concrete pumping system adopts hydraulic pushing mechanism, high pumping pressure, vertical conveying height up to 160 meters, horizontal conveying distance up to 1,000 meters, can meet the requirements of high-rise building roof insulation project and ground filling long-distance conveying;

2. Adopting the high and low pressure density stabilization technology developed by our company, it ensures that the density of the lightweight concrete output from the equipment in the near and far distances is constant, and will not change due to the changes in the conveying distance or conveying height;

3. The whole equipment adopts containerized structure, which is easy to install and move and transport, and the GF30A machine can be transported with a 4.2-meter truck;

4. Equipped with lightweight concrete density monitoring and control device, adopting touch screen intelligent control system, the working status of the equipment and various parameters are intuitively displayed on the screen, which is convenient for the judgment of the working status and centralized control;

5. Powder metering, slurry mixing, and slurry storage are divided into a three-tier structure, which can be added or subtracted in combination as needed;

6. Standard with material batching and measuring device, cement, powder, water, etc. can be measured separately, accurate control of material ratios;

7. It is equipped with daily production report output interface or printing device as standard, which can summarize and output or print the daily consumption of cement, fly ash, foaming agent and other materials as well as the output of lightweight concrete;

8. Optional lightweight concrete density monitoring and control device developed by our company has reached the domestic leading level, which can instantly detect the wet density and dry density of lightweight concrete produced by the equipment and provide reliable data for the engineering quality inspection department;



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9. Full-automatic control, equipped with lightweight concrete density monitoring and control device, the equipment can automatically adjust the ratio of materials at the front end according to the density data detected, so that the density of the lightweight concrete produced meets the set requirements;





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II. Technical data

Item		Equipment name	GF30A Hydraulic high-pressure type lightweight concrete work plant	Remark
Pumping and foaming systems	Capacity (m ³ /h)		25~30	Density 450kg/m ³
	Conveying distance (m)	Horizontal	1200	
		Vertical	160	
	Motor power (kw)	Pump motor	22	
		Foaming motor	7.5	
	Concrete cylinder diameter (mm)		Φ120	
	Pumping form		Ball valve double cylinder hydraulic push	
	Density range (kg/m ³)		350-800	
	Foam multiplication rate		Adjustable	
	Wet density testing		Precision <5%	Optional accessories
	Dry density testing		Precision <5%	Optional accessories
	Flow testing	Cement slurry flow detection display	Precision <2%	Optional accessories
		Lightweight concrete flow detection	Precision <2%	Optional accessories



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		display		
		Foaming agent flow detection display	Precision <2%	Optional accessories
	Pipe Diameter (mm)		Φ50	
Mixing system	Mixer tank volume (L)		500	
	Storage mixer volume (L)		760	
	Motor power (kw)	Mixer	4	
		Storage Mixer	4	
		Water pump	0.75	
		Screw conveyor	7.5	
	Screw conveyor		Φ165x6m	
Auto-weighing system		Cumulative measurement	Optional	
Control system	Control method		PLC control, touch screen display and input	Optional
	Parameter Printing	Lightweight Concrete Proportions Printable		Optional
		Lightweight Concrete Productivity Printable		Optional
Overall Dimension	Mainframe(Length x Width x Height mm)		3350x1540x2672	
Weight (kg)			2500	



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III. Configuration of major components

Model	GF30A hydraulic high-pressure type lightweight concrete work station
Technical data	
main oil pump	Hefeiwanye
Motor	Shandonghuali/Qingdaohongqi
valve assembly	Taiwan North Precision Machinery
Pressure gauge	Seismic pressure gauge made in Wuxi
Hydraulic hose	Manuli, Italy
Seal	American Parker
PLC Unit	OMRON Japan
Relay	OMRON Japan
proximity switch	Schneider France
Remote controls	wireless remote
Button	Schneider France

IV. Configuration list (including $\Phi 50$ delivery hose 100m)

No.	Name	Spec.	U ni t	Qty.
1	High Pressure Conveying Hose	$\Phi 50$ -20m/pc	P cs	5
2	High Pressure Hose Rings	$\Phi 50$	P cs	5
3	Three-phase submersible pump	QX7-18-0.75	se t	1
4	Water Packages	3m ³	P c	1
5	Water pack holder		se t	1
6	Conveying piston	BS25C.1-13($\Phi 120$)	P cs	2
7	O-ring	GF30A	se	1



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			t	
8	Proximity switch	ZLJ-A18-8ANA-Q	P c	1
9	Water Pump Accessories		se t	1
10	Canvas sleeve	Φ165	P c	1
11	Rubber Cylinder	170x12x380	P c	1
12	Hose clamps	Φ165	P cs	4
13	Remote control	220V	P c	1
14	Toolbox	GF30A	P c	1
15	Instruction manual	GF30A	P c	1

V. Construction Cases





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Lanzhou Highway Project



Taizhou Coastal Highway Project



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