



郑州高德机械设备有限公司

Gaode Equipment Co., Ltd.

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## GF40A Automatic foaming concrete equipment

### I. 产品性能特点 Product performance characteristics

1. 轻质混凝土泵送系统采用液压推送机构，泵送压力高，垂直输送高度可达 160 米，水平输送距离最远可达到 1000 米，能满足高层建筑屋面保温工程和地面填充远距离输送的要求；

1. Lightweight concrete pumping system adopts hydraulic push mechanism, with high pumping pressure, vertical conveying height up to 160 meters, horizontal conveying distance up to 1000 meters, which can meet the requirements of high-rise building roof insulation engineering and ground filling long-distance conveying;

2. 采用我公司研发的高低压密度稳定技术，确保设备近距离和远距离输出的轻质混凝土密度是恒定的，不会因为输送距离远近或输送高度发生变化而变化；

2. The high and low pressure density stability technology developed by our company is adopted to ensure that the density of light concrete output by the equipment at short distance and long distance is constant, and will not change because of the change of conveying distance or conveying height;

3. 设备整体采用集装箱式结构，便于安装和移动、运输，GF40A 型机用一辆 4.2 米的货车就可运输了；

3. The whole equipment adopts container structure, which is easy to install, move and transport. GF40A can be transported by a 4.2m truck;

4. 配有轻质混凝土密度监测与控制装置的机型，采用触摸屏智能控制系统，设备工作状态和各种参数直观的显示在屏幕上，便于工作状态判断和集中操控；

4. The model equipped with lightweight concrete density monitoring and control device adopts touch screen intelligent control system, the working state and various parameters of the equipment can be intuitively displayed on the screen, which is convenient for working state judgment and centralized control;



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5. 粉料计量、浆料搅拌、浆料储存分为三层结构，可根据需要进行增减组合；

5. Powder metering, slurry stirring, and slurry storage are divided into three layers of structures;

6. 标配有材料配料计量装置，水泥、粉料、水等可分别进行计量，准确控制材料配比；

6. The standard ingredients metering device is standard, and cement, powder, water, etc. can be measured separately to accurately control the material ratio;

7. 标配有日生产报表输出接口或打印装置，可将每天的水泥、粉煤灰、发泡剂等材料的消耗量及轻质混凝土产量进行汇总输出或打印；

7. Standard daily production report output interface or printing device, can be daily cement, fly ash, blowing agent and other materials consumption and light concrete output summary output or printing;

8. 可选配我公司研发的达到国内领先水平的轻质混凝土密度监测与控制装置，即时检测设备产出的轻质混凝土的湿密度和干密度，为工程质量检测部门提供可靠数据；

8. The lightweight concrete density monitoring and control device developed by our company to reach the domestic leading level can be selected to detect the wet density and dry density of the lightweight concrete produced by the equipment, so as to provide reliable data for the engineering quality inspection department;

9. 全自动控制，配有轻质混凝土密度监测与控制装置的设备，设备可根据检测出的密度数据自动调节前端的材料配比，使生产的轻质混凝土密度满足控制设定的要求；

9. Automatic control, equipped with lightweight concrete density monitoring and control device equipment, the equipment can automatically adjust the front material ratio according to the detected density data, so that the production of lightweight concrete density to meet the control set requirements;



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## II. 产品技术参数表 Product technical parameter table

项 目 Item		设备名称 name	GF40A Automatic foaming concrete equipment	note	
泵送及发泡系统 Pump and foam system	output (m3/h)		40	Density 450kg/m3	
	Convey distance (m)	horizontal	1200		
		vertical	160		
	Motor power (kw)	pump motor	30		
		foaming system	11		
	Diameter of concrete cylinder(mm)		Φ120		
	Pumping form		Ball valve double cylinder hydraulic push		
	Density range of lightweight concrete (kg/m3)		350-800		
	foaming ratio		adjustable		
	Wet density testing of lightweight concrete		accuracy<5%	Options	
	Dry density testing of lightweight concrete		accuracy<5%	Options	
	flow measurement	Cement slurry flow detection display		accuracy<2%	Options
		Light concrete flow test shows		accuracy<2%	Options
Foaming agent flow detection shows		accuracy<2%	Options		
Conveying pipe diameter (mm)		Φ50			
搅拌系统	Volume of mixer (L)		600		
	Volume of material storage mixer (L)		720		



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Mix syst em	Motor power (kw)	Mixer	5.5	
		Storage mixer	4	
		Water pump	0.75	
		Screw conveyor	5.5	
	Screw conveyor		φ 165x6m	
	Weighing system		Cumulative weighing	
控制 系统  Cont rol syst em	Control model		PLC control, touch screen display and input	
	Parameters to print		Lightweight concrete proportioning printing	选配件
			Lightweight concrete productivity printing	选配件
Size	The host part (LxWxH mm)		4100x1750x2065	
Weight (kg)			3500	
Price ( usd)			20300usd	

### III. 主要部件配置 Configuration of Main Components

参数 parameter	型号 model	GF40A
主油泵 main oil		合肥皖液 hefei wanye
电机 motor		山东华力 huali /青岛红旗 hongqi
阀组 Valve group		台湾北部精机 Taiwan Northman
压力表 Press gauge		无锡产抗震压力表 made in Wuxi
液压胶管 Hydraulic rubber pipe		意大利玛努利 Italy Manuli
密封 Seal ring		美国派克 USA Parker
PLC 单元 PLC Units		日本欧姆龙 Omron





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中间继电器 Intermediate relay	日本欧姆龙 Omron
接近开关 Proximity switch	法国施耐德 Schneider Electric
遥控器 remote control	无线遥控 wireless remote control
按钮 button	法国施耐德 Schneider Electric

#### IV. 产品附件配置清单 (含 $\Phi 50$ 输送胶管 100 米)

序号	名称 name	规格 model	单位 UNIT	数量 QT	备注 NOTE
1	高压输送胶管 Hydraulic hose	$\Phi 50-20m/根$ pc	根 pc	5	
2	高压胶管胶圈 Hydraulic hose	$\Phi 50$	个 pc	5	
3	三相潜水泵 water pump	QX7-18-0.75	台 set	1	
4	水包 water drum	$3m^3$	个 pc	1	
5	水包支架 water drum holder		套 set	1	
6	输送活塞 piston	BS25C. 1-13 ( $\Phi 120$ )	个 pc	2	
7	O 型圈 O Ring	GF40A	套 set	1	
8	接近开关 Proximity switch	ZLJ-A18-8ANA-Q	支 pc	1	
9	水泵附件 Water pump accessories		套 set	1	
10	帆布套 canvas cover	$\Phi 165$	件 pc	1	
11	胶筒 rubber sleeve	170x12x380	件 pc	1	
12	喉箍卡子 Throat hoop clamp	$\Phi 165$	件 pc	4	
13	发泡剂 foam agent	HF30	桶 drum	1	(200Kg/drum)
14	遥控器 remote control	Wireless 220V	个 pc	1	



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15	工具箱 tool box		套 set	1	
16	说明书 operate guide	GF40A	分 pc	1	
17	合格证 Certification	GF40A	份 pc	1	

## V. 施工案例 Application examples





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