QUOTATION

NO:

DATE: Nov 17, 2021

To: Jamshid Rahimi Head Of Flat Glass Division Www.Kavehglass.Com

1. Price and equipment (currency: RMB)

No	Description	UNIT PRICE	Qty	
1	Flat glass frosted production line		1	
	glass size: 2600*3210mm,3000sqm/day 平板玻璃蒙砂生产线			
1-1	Glass automatic loading machine 玻璃自动上片台		1	
1-2	Glass positioning table I 玻璃定位台		1	
1-3	Glass acid washing and drying machine (for acid wash,		1	
	anti-corrosion machine) 酸洗烘干清洗机 (耐腐蚀)			
1-4	Glass frosting fluid spraying and pouring machine (anti-corrosion		1	
	machine)玻璃蒙砂液喷淋机 (耐腐蚀)			
1-5	Glass etching reaction and conveying section (anti-corrosion		1	
	machine) 玻璃腐蚀反应及传输段 (耐腐蚀)			
1-6	Glass washing and drying machine(normal water wash,		1	
	anti-corrosion machine) 玻璃清洗机 (耐腐蚀)			
1-7	Glass positioning table II 定位机		1	
1-8	Glass automatic unloading machine 玻璃自动卸片机		1	
Total				
PS:				

2. Origin of goods: China

3. Terms of payment:付款条件

50% prepay by TT, 50% when machine finish before leaving plant.

4. Delivery time交货期: around 70 working days.大概70工作日

Flat glass frosted production line

glass size: 2600*3210mm 平板玻璃蒙砂生产线

玻璃蒙砂是用玻璃蒙砂粉配成的溶液或其他化学原料对玻璃表面进行处理的一种方法。蒙砂是玻璃深加工的其中一种方法,它能提高玻璃的附加价值,从而提高玻璃制品的价值。是市面上很多艺术玻璃就是通过玻璃蒙砂后,再进行上色等加工的。

平板玻璃超短超高速蒙砂生产线这是一款最为典型,也最为符合用户需求的产品生产解决方案。可实现日产一万平方的玻璃。占地面积相对较小,生产质量能满足绝大部分客户要求。

总个生产线采用现场总线控制系统。现场总线控制系统(FCS)实现将自动化系统现场控制装置与现场智能仪表互连的实时网络控制系统。

Glass frosting is a method of treating glass surface with solution made of glass frosting powder. Frosting processing is basic decoration to make glass value added. Lots of art glass use the frosted glass as the basic plate to make color or other further processing.

The frosted glass production line is the best solution to meet different requirement on its output. It can achieve 10,000sqm per day, with glass quality meet the majority of customer requirements.

The whole production line adopts fieldbus control system (FCS). FCS achieves a real-time network control system that interconnects the automatic field control device with the field intelligent instrument.

控制系统特点 Features of control system:

- (1)系统的开放性 System openness
- (2) 互可操作性与互用性 Operability and interoperability
- (3)现场设备的智能化与功能自治性 Intelligence and function autonomy of field equipment
- (4)系统结构的高度分散性 High dispersion of system structure
- (5)对现场环境的适应性 Adaptability to the site environment

控制系统优越性 Advantage of control system:

- (1)节省硬件数量与投资 Save hardware quantity and investment
- (2)节省安装费用 Save the installation fee
- (3)节省维护开销 Save maintenance charge
- (4) 具有高度的系统集成主动权 With a high degree of system integration initiative

(5)提高了系统的准确性与可靠性 Improve the accuracy and reliability of the system

Technical Parameter of the whole line 整线技术参数:

- 1, Max glass size to be processed 最大加工玻璃尺寸: 2600*3210mm
- 2, Min glass size to be processed 最小加工玻璃长度:1350* 1000mm
- 3, Total length of production line: 60meter
- 4, Thickness range of processing 加工玻璃厚度: 3-19mm
- 6, Voltage 电压功率: according to customer's requirement 根据客户要求
- 7, Total power 总功率: 100 kw
- 8, max glass size to be processed for glass loading table and positioning table 上片台和定位台最大加工玻璃尺寸: 2600*3210mm
- 9, max glass size to be processed for washing machine 清洗机最大清洗尺寸: 2600*3210mm
- 10, Max output 蒙纱线最大生产效率: 500sqm/hr

Main component of Flat glass frosted production line

平板玻璃蒙砂生产线主要电器配置

The configuration brand of Major parts and the feature(Some configuration brands may be replaced due to products improvement without notify and manufacturer will have the right of final explanation.)

Glass loading and unloading section 上下片段						
名称	单位 unit	规格型号 Model	数量	生产商 Manufacturer	备注 Remark	
Description	平应 unit	number	Qty	土) 同 Mandiacturer	 田在 Nemark	
减速电机 Gear motor	減速电机 Gear motor 台 set 1.5KW415V50Hz 6	广东优质品牌				
吸述电机 Geal Motor		1.51(00415050112		Guangdong		
刹车电机 Brake motor 台 set 4KW415V50Hz 2	广东优质品牌					
初十七年 Diake motor	□ ऽटा	4KVV415V5UHZ		Guangdong		
伺服电机 Servo motor	⇔ sot	台 set	广东优质品牌			
可加度电视 Servo motor				Guangdong		
真空泵 Vacuum pump	台 set	2	2	广东优质品牌		
其主水 Vacuum pump				Guangdong		
Washing and drying machine 清洗干燥机						
主传动电机 Main drive motor	台 set	1.5KW415V50Hz	2	万鑫电机		
主权如电机 Wall Unive Motor	□ □ Seι	1.5KVV413V3UHZ		Wanxin motor		
上毛刷电机 Upper brush motor	台 set	1.5KW415V50Hz	2	方力电机		

				FangLi motor	
てて別点担 し	/>4	4.51004445)/5011-		方力电机	
下毛刷电机 Lower brush motor	台 set	1.5KW415V50Hz	2	FangLi motor	
升降电机 Lifting motor	台 set	0.75KW415V50Hz	2	方力电机	
				FangLi motor	
风机 Blower	台 set	18.5KW415V50Hz	2	禅通风机 Chantong Blower	
				朝宏水泵	耐腐蚀 corrosion
水泵 Water pump	台 set	0.45KW415V50Hz	6	Chaohong pump	proof
变频器 Frequency converter	个 pc	VEICHI	2		
电器 Electric part	套 set		2	德力西 DELIXI	
发热管 Heater	条 pc	3KW/条 pc	6		
电线 Electric wire				禅城电线 Chancheng	
Glass etching reaction and conve	eying section	n (aqueous frosting	powder)	(anti-corrosion machin	e) 玻璃腐蚀反应及
	传	输段 (耐腐蚀)(水	性蒙砂粉	j)	1
印刷电机 Printing motor	台 set	1.5KW415V50Hz	1		
编码器 Encoder	个 pc		1		
输送电机 Conveying motor	台 set	0.45KW415V50Hz	1		
变频器 Frequency converter	个 pc		2		
光电开关 photoelectric switch	个 pc		2		
减速电机 Gear motor	台 ser	1.5KW415V50Hz	2		
水泵 Water pump	台 set	1.5KW415V50Hz	3	广东优质品牌	耐腐蚀
The victor pamp		1.01000112		Guangdong	Corrosion proof
搅拌器 Stirrer	台 set	1.5KW415V50Hz	3	广东优质品牌	
变频器 Frequency converter	个 pc		2	Guangdong 易能 Yineng	
电器 Electronic part	套 set		1	德力西 Delixi	
七冊 Electronic part	去 301	Control system 控制		版/JE DCIM	
DIO 12 Maria III DIO Constantina		Control system 1±m	水 乳		
PLC 控制器 PLC Controller PLC 扩展 PLC Extend	个 pc			三菱 Mitsubishi	
	-			— # A.G. 1 . 1 .	
触摸屏 Touch screen	个 pc		1	三菱 Mitsubishi	
电磁阀 Electric volve	个 pc				
传感器 Sensor					
急停开关 Emergency switch	↑ pc		4		
警示灯 Caution light	个 pc		3		
各种开关 Other switch	套 set		1		
电缆 Electric wire	套 set		1	珠江电缆 Zhujiang	

电器 Electric part	套 set		1	德力西 Delixi	
控制程序 Control program		软件	1	古德 Gude	
以上为主要电器配置,设备改进配置变化不做另行通知。					

Spare parts list:

NO.	DESCRIPTION	UNIT	QTY
1	Tool Box 工具箱	pcs	1x2
2	Suction cup 吸盘	pcs	6 x2
3	Nozzle 水嘴	pcs	20x2
4	Bevel Gear 伞齿轮	pcs	8x2
5	Indicating Lamp(AD16-22D/r 31AC 220V)指示灯	pcs	4x2
6	Button Switch (LA39-11/r 或 LA39-11/g) 按钮开关	pcs	4x2
7	Contactor(CAN-11A)接触器	pcs	2x2
8	Water Seal(bore Φ30)水封	pcs	10x2
9	Dead Wrench(5.5-24)呆板手	pcs	1x2
10	Inner Six Angle Wrench(3-14)内六角板手	pcs	1x2
11	Roller	pcs	2x2
12	Brush	pcs	1x2

Installation agreement 安装要求:

- Buyer must finish the following preparations before informing seller to go for installation.
 买方在通知卖方进行安装前必须完成以下准备工作。
- 1) device(electric hoist, upright, beam, hanging beam)and "X" suction hanger beam etc. 装置(电动葫芦、立柱、横梁、吊梁)和 "X" 型吸力吊梁等。
- 2)Preparing air conditioning and drying equipment as well as piping system of cleaning room. To ensure indoor temperature reach 25± 3 ℃ and Humidity reach 25±3%。准备空调和干燥设备以及洁净室的管道系统。 保证室内温度达到 25±3℃,湿度达到 25±3%。
- 3)Based on seller's diagrams of water system, power system as well as compressed air system, buyer should prepare all well in advance. 根据卖方提供的安装布局图,买方需提前准备好相应的水电气等安装条件。
- 4)Providing hoisting crane or forklift (can load more than 3 tons), arranging more than 3 workers to assist the installation and debugging and to learn how to use the equipment and daily maintenance.

提供行吊或叉车(不少于 3 吨), 安排至少 3 名工人协助安装工作并学习如何使用机器及日常维护保养。

2. Due to Pandemic, installation service is not available. The quote above is EXW price only.

2021.11.17