

濟南沃能德機械有限公司
JINAN WONDEC MACHINERY CO.,LTD

-  山東濟南市歷下區工業南路楓潤大廈 A-12B09
A-12B09, Fengrun Building, No.100 Gongyenan Rd., Lixia Dist., Jinan, China
-  +86-531-68820622
-  +86-531-68820621
-  sales@wondecmachine.com
-  www.wondecmachine.com

聲明：版權所有濟南沃能德機械有限公司，保留所有權利。未經書面許可，本手冊內容不得被複制或抄襲用于任何目的。本公司保留對所有設備的外觀、結構、顏色、型號及價格等變更的權利，如有變動恕不另行通知。本手冊圖片與實物可能不符，請以實物為準。

Statmen: The company reserved the right to change the appearance, structure, color, model and price about all equipments. If the above will be modified, please forgive us not to notify. The pictures in this manual may be different from the object, please make the object as the standard.



WONDEC
沃能德機械

IG Glass Processing Equipment
for World user Services
中空玻璃智能加工设备全球供应商

Brief Introduction

關於沃能德

WONDEC:

Jinan WONDEC Machinery Co., Ltd. is located in beautiful spring city Jinan, is specialized in high-quality upvc and aluminum door-window machines, insulating glass mahines research and development, production, sales and technical services of modern high-tech enterprises.

INNOVATION:

WONDEC adhering to the tradition and constant innovation, adhere to the introduction of the world's most advanced technology and independent research and development of both R & D ideas to guide the trend of technology to create

SERVICE:

WONDEC Machinery provide 24-hour telephone and online service to ensure efficient, fast, timely and convenient full-service. WONDEC will take concrete actions to express our attitude towards the service.

DEVELOPMENT:

WONDEC has exported equipment to more than 50 countries and regions around the world, the company will be intelligent equipment to automation as the direction of development, to better meet the needs of the system of windows and doors and a variety of insulating glass production needs, do not forget the beginning, efforts forward.

濟南沃能德機械有限公司座落在美麗泉城濟南，是專業從事高質量塑料門窗設備，鋁門窗設備，中空玻璃設備研發、生產、銷售與技術服務的現代化高新技術型企業。

創新：公司秉承傳統，不斷創新，堅持引進世界最先進技術與自主研發并舉的研發思路，以技術引導潮流，以質量打造品牌，使沃能德機械與國際需求接軌。

服務：濟南沃能德機械提供 24 小時電話和網絡售后服務，保證高效、快捷、及時、方便的全方位服務，沃能德機械會以實際行動來表達我們對服務的態度。



WONDEC--let the world fall in love with China

沃能德 -- 讓世界愛上中國造



WONDEC as the leading global supplier of intelligent processing equipment for insulating glass, has made use of the industry accumulation in recent ten years, has undertaken the equipment planning and construction work in many countries of the world, established long-term cooperative relationship with users, and established a sales service network all over the world.

沃能德作為行業領先的中空玻璃智能加工設備全球供應商，利用近十年的行業積累，承擔了全球多個國家地區的設備規劃建設工作，與用戶建立了長期的合作關係，并在主要地區建立了銷售服務網絡。





Provide the Best Equipment Configuration Scheme and Personalized Customization

提供最佳設備配置方案及個性化定制

WONDEC Machinery according to the needs of customers, the company can provide customers with capital budget, process standards, efficiency, cost control, energy saving and other aspects of technical and programmatic support, and can provide users with personalized selection device, to meet the different needs of users, to provide the best equipment purchase solution.

沃能德機械根據客戶的需求，公司可為客戶提供資金預算、工藝標準、效率產能、成本控制、節能等諸多方面的技術和方案支持，并可為用戶提供個性化的選配裝置，滿足用戶不同的需求，提供最佳的設備購置解決方案。

" Quality" is the foundation of the survival and development of WONDEC, WONDEC adhere to the principle of " quality first", the implementation of parts one by one inspection, strict control of nonconforming products into the company 's production link, and provide users with original factory pure accessories, maintain the accuracy of the use of equipment, to ensure the interests of users.

沃能德機械“質量”是公司生存及發展的根本，公司信守“質量至上”的原則，實施零部件逐一檢查，嚴格控制不合格品流入公司生產環節，并為用戶提供原廠純正配件，保持設備的使用精度，確保用戶利益。



High Efficiency Energy Saving Automatic Insulating
Glass Production Line

高效，節能中空玻璃自動生產線



WONDEC GLASS SOLUTIONS
INNOVATIVE TECHNOLOGY
INNOVATIVE SOLUTION



WZX20-C/WZX25-C

Insulating Glass Automatic Sealing Robot 中空玻璃全自動封膠線



Equipment Advantages 設備優勢

- Automatic corner repair function ,realizing glass corner repairing automatically.
- The integrated frame design,to minimize the size of the equipment,saving installation space.
- Automatic glue discharging function to avoid the pipe blockage caused by human factors.
- Special design for checking the depth of sealant in order to control the spread of sealant automatically.
- Two sets of spreading sealant system can work independently (including mixer). One key switch for changing two sets of sealant.
- Coating with glass edge neatly,no dislocation.After coating the glass edge without seam,enrich the corner,quadrilateral smooth surface no need to repair the glass corner.
- Transfer integral V type rubber synchronous belt,make the glass transmission smooth and accurate positioning,and can realize the processing of ultra small pieces of glass.
- Convenient operation.

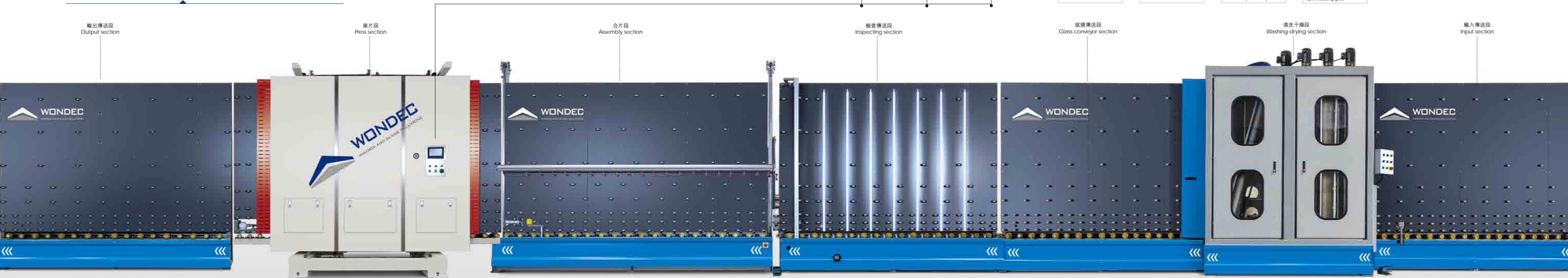
Technical Parameter 技術參數

WZX20-C	WZX25-C
Max. glass size	玻璃最大尺寸
2500×2000mm	3500×2500mm
Min. glass size	玻璃最小尺寸
300×180mm	300×180mm
Glass thickness	中空玻璃厚度
12~60mm	12~60mm
Coating depth	塗膠深度
3~18mm	3~18mm
Aluminum frame width	鋁框寬度
6~24mm	6~24mm
Coating speed	塗膠速度
5~40m/min	5~40m/min
Transmission speed	傳輸速度
5~50m/min	5~50m/min
Hydraulic pressure	液壓壓力
<100kgf/cm ²	<100kgf/cm ²
Air pressure	氣源
0.6~0.8Mpa	0.6~0.8Mpa
Total power	總功率
15kW	19kW
Overall dimension	設備尺寸
8200×3500×2900mm	11010×3500×3400mm



ZK1800A/2000A/2500A

Automatic Insulating Glass Production Line 中空玻璃自動生產線



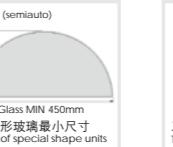
数字化输入控制系统
Numerical Control System



可生产大、小片幕墙中空玻璃
Suitable for stepped units



可生产大、小片幕墙中空玻璃
Suitable for stepped units



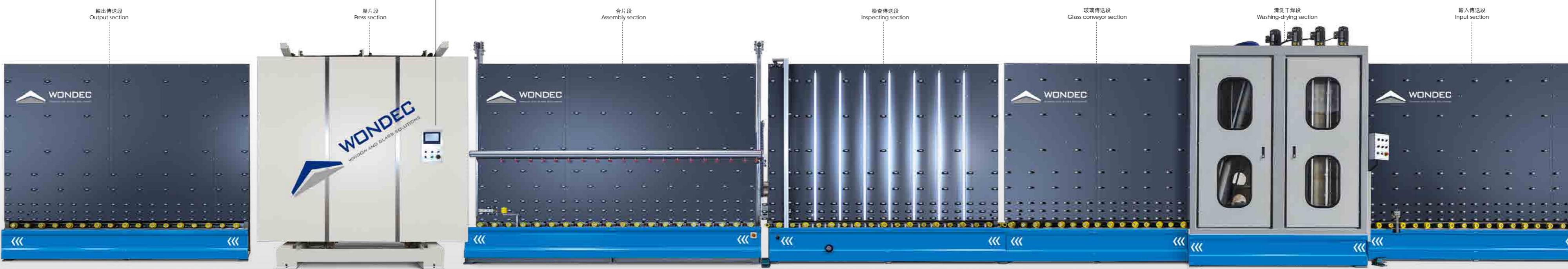
半自动 (semiauto)
Gloss MIN 200mm
生产异形玻璃最小尺寸
Minsize of special shape units



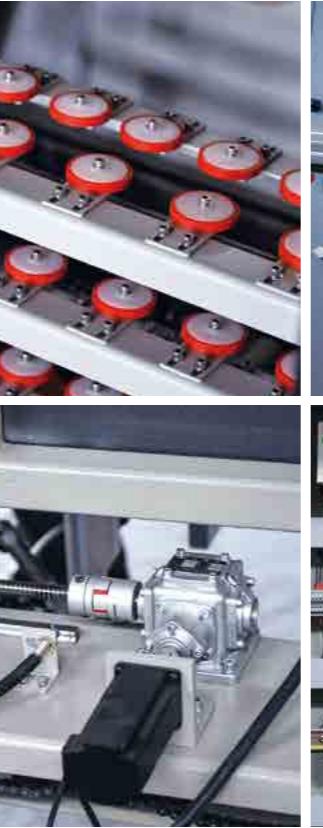
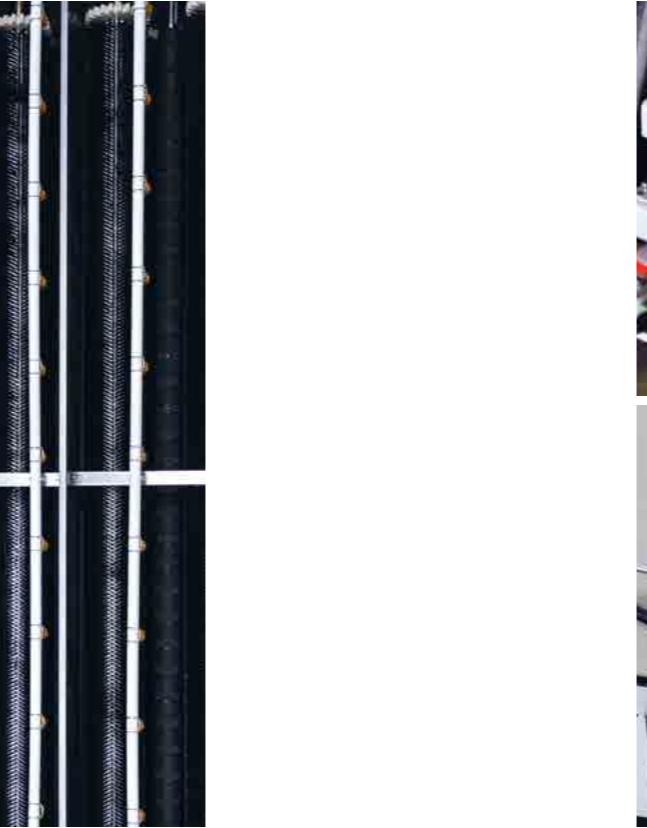
三层玻璃
Triple insulating glass

ZK1800/2000/2500

Automatic Insulating Glass Production Line 中空玻璃自動生產線



Cohesion Master Brand, Intellectually Making Chinese Quality
品牌聯盟 聚力大師品牌 智造中國品質



ABM02

Automatic Spacer Bending Machine
自動鋁條折彎機

Equipment Advantages 設備優勢

ABM02

- PLC control, touch screen simple operation.
 - Feeding system adopts CNC servo motor, bending angle uses CNC control system.
 - Four material storage slots for four different specifications of spacers.
 - Bending and cutting automatically avoid the spacer connection, the roundness, automatically cut after bending.
 - With manual operation model, easy to debug and repair.
 - It can make triangle, rectangle, regular pentagon, regular hexagon, roundness shape and so on.
-
- PLC控制系统，觸摸屏人機界面，設備操作簡單方便。
 - 采用數控伺服電機進料系統，數控折彎角度控制系統。
 - 四個儲料槽，可以分別存放4種不同規格的鋁條。
 - 折彎和切割時自動避讓鋁條之間連接處，圓弧處，折彎後自動切割。
 - 手動操作功能，便于設備的調試和檢修。
 - 可以折三角、矩型、正五邊形、正六邊形、圓弧等形狀。

ABM01

- This machine is used for bending aluminum spacer. It can finish locating, bending and cutting aluminum spacer one time automatically.
 - PLC control.
 - It features easy operation, reliable positioning, steady running and large processing range.
-
- 彎框式高檔中空專用設備，解決了插角式中空玻璃角部密封難題，本機由PLC控制、定位、折彎、鋸切自動完成。性能穩定可靠、操作方便。
 - 本機用于中空玻璃鋁間隔條矩形折彎。
 - PLC控制系統，定位可靠，運行平穩，加工鋁框範圍大。

Technical Parameter 技術參數

ABM01
Semi-automatic Spacer Bending Machine
半自動鋁條折彎機

ABM02	ABM01
Power supply	工作電壓
Air pressure	氣壓
Aluminum bar specification	鋁條規格
Aluminium frame size	加工鋁框尺寸
Bending angle error	折彎角度誤差
Total power	總功率
Feeding speed	送料速度
Data base	加工數據庫
Overall dimension	外形尺寸

BEM02

Automatic Butyl Extruder

丁基膠塗布機


Equipment Advantages 設備優勢
BEM02

- Import gas-liquid pressure boost system makes sure the stable pressure and energy saving.
- PLC control, touch screen simple operation.
- Stepless speed regulation of frequency converter.
- Spray nozzle space automatic-adjusting according to the spacer width.
- Preheat available.
- Non butyl automatic alarm system.

- 采用進口的氣液增壓系統，使設備壓力更加穩定且節能。
- 采用PLC控制系統，人機操作界面。
- 變頻器無級調速。
- 膠嘴間距根據鋁框寬度自動調節。
- 設備具有預加熱功能。
- 無膠自動報警系統。

BEM01

- Advanced gas-liquid pressure boost system makes sure the stable pressure and energy saving.
- PLC control.
- Speed frequency control, speed adjustable (optional).
- Spray nozzle space manual-adjusting when working.
- Preheat available.
- Non butyl automatic alarm system.

- 採用先進的氣液增壓系統，使設備壓力更加穩定且節能。
- 採用PLC控制系統，人機操作界面。
- 變頻器多檔傳送速度可調（選裝）。
- 膠嘴間距在工作狀態下具有手動調節功能。
- 設備具有預加熱功能。
- 無膠自動報警系統。

Technical Parameter 技術參數

BEM01

Automatic Butyl Extruder

丁基膠塗布機

BEM02	BEM01
Input power	電功率
Power supply	電源
Conveying speed	輸送速度
Extruding temperature	打膠溫度
Air pressure	氣動壓力
Extruding pressure	擠膠壓力
Adjustable range of extruding nozzle	膠頭可調範圍
Overall dimension	外形尺寸



FGJ-05
 Automatic Desiccant Filling Machine
 自動分子篩灌裝機



Equipment Advantages 設備優勢

- PLC control,desiccant filling in closed condition,improving efficiency and IG service life .
- Aluminum spacer back side drilling,filling and automatic sealing.
- Suitable for bendable aluminum spacer and aluminum spacer with connector.
- Filling height adjustable according to the size of aluminum frame.
- Special filling device with automatic desiccant feeding.
- 鈷對折彎鋁框設計由PLC控制，在密閉條件下灌裝，解決了干燥劑吸水失效，提高效率及中空玻璃壽命。是折彎式中空玻璃生產中的必備設備。
- 鋁條背面打孔、灌裝、自動封膠。
- 可灌裝自動折彎成形鋁框和普通直插角鋁框。
- 灌裝高度可根據鋁框大小調節。
- 獨特的先進上料裝置，可自動補料。

Technical Parameter 技術參數

	FGJ-05
Working pressure	0.5~0.8Mpa
Working power	220V
Filling speed	8~12s/piece(1m×1m 9a)
Aluminum spacer min.	200×250mm
Aluminum spacer max.	2500×2500mm
Overall dimension	1000×820×2900mm

SKJ01
 Spacer Moving Machine
 鋁間隔框輸送機



IGJ03
 Spacer Cutting Machine
 鋁條切割鋸



XZT01

Rotating Table
 旋轉塗膠臺



LTD-300
 Glass Unloading Machine
 吊臂

