FULL PRE-PROCESSING SOLUTIONS

ENTER THE GLASS INDUSTRIAL 4.0



MAC GLASTECH

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About MAC

1998
Journey Begins

Start from automatic glass processing machinery, well known as HANJIANG

2004
Global Market

Reach to the global market as pioneers in the Chinese glass industry

2012
Intelligent Equipments and full factory solution

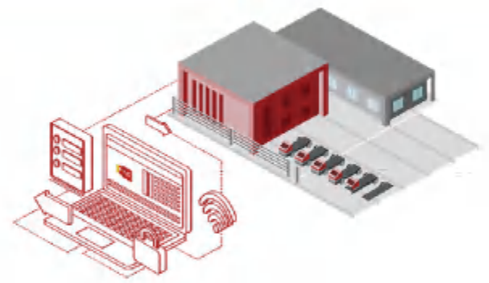
Based on more than 2000 users, the intelligent machinery begin to be developed to receive order and process from database

ERP software

First glass industrial concentrated database
Continuous development and upgrade to more than 5000 users in following 20 years

2017
Full automatic IG processing

Super spacer robotic IG line developed for labor free insulating glass production



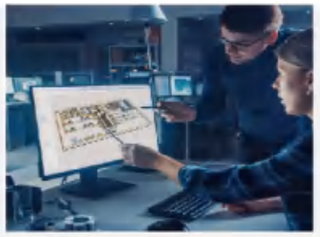
2018
Full Glass Industrial Solution

Supply full solution of integration of database, automatic system and intelligent processing machinery for architecture glass, solar glass, appliance glass and automotive glass production



2025
30+ global service center
100+ countries
200+ full automatic projects
8000+ global customers









MAC is committed to global customers value.

1. Professional engineering teams support from project plan, factory design, software implement to equipment installation and global service.
2. Reliable partner for integration of business management software, automatic system and intelligent machinery
3. Global services covering pre-sales, execution and after-sales

Contents

Automatic Systems

Glass Online Warehouse 07

Shuttling Storage System 09

Gantry Storage System 11

Compact Storage System 13

Automatic Sorting Solutions 15

Vertical Sorting System 15

Horizontal Sorting System 17

Automatic Loader/Unloader 19



Architectural Glass Solutions

Cutting and Breaking 25

Laser Marker 26

Automatic Double Edging Line 27

Horizontal Seaming Machine 31

Glass Door-Balustrade Solutions

Corner Grinding Machine 37

Straight Edgers Line 38

Multiple spindle Drilling Machines with tool magazine 39

Waterjet (Online & Offline) 41

Solar Glass Solutions

Laser Driller MAClas 47

Appliance-Automotive Glass Solutions

CNC Processing Center (Online/Offline) 55

4-in-1 Processing Center Velocity 61

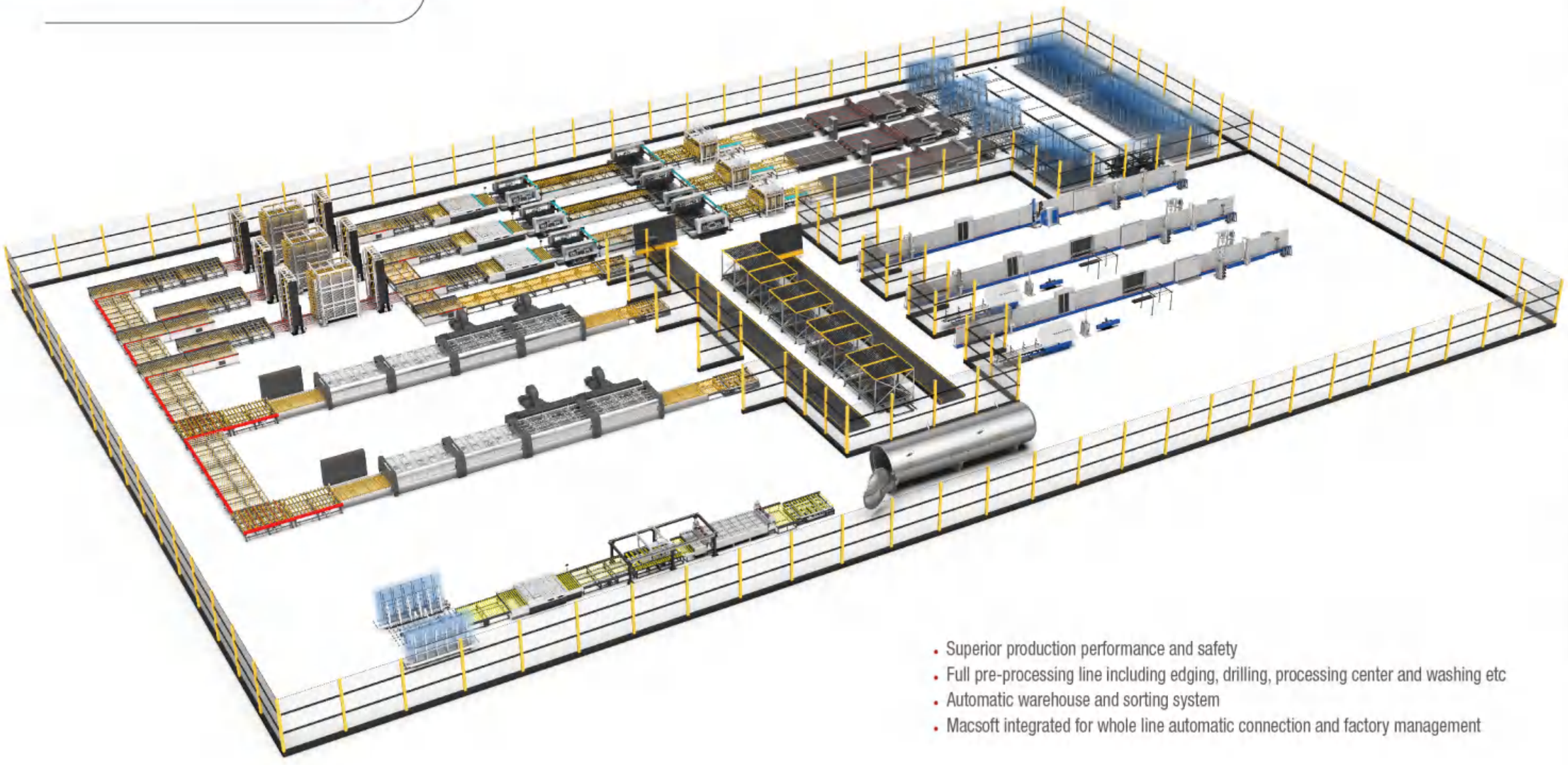
Washing Machine 63

WaterTec 64

Software

MACsoft 65

Automatic Systems



- Superior production performance and safety
- Full pre-processing line including edging, drilling, processing center and washing etc
- Automatic warehouse and sorting system
- Macsoft integrated for whole line automatic connection and factory management

Glass Online Warehouse

Begin from the most scientific raw glass management

MAC STORE will help sort and store all the raw glass very well and achieve glass automatic record, positioning, collection and loading according to processing OPT management. Dramatically save space and laboring on the basis of safe production. It is also the beginning of the data flow for the glass factory.

Glass Online Warehouse

The shuttle storage system includes 1 set or multi sets of shuttle system, guide rail system, glass racks and cutting lines .The shuttle system can automatically supply full pack of glass to the loading table of cutting line. There is a glass feeding entrance for float glass unloaded from truck. The shuttle system will automatically send the glasses to the rack positions that identified by the control system. At the same time, all the raw glass specifications are recorded by scan reader at the entrance. After getting the instruction from the control system or cutting line, the ordered glasses with the rack will be selected and sent to the loading area of cutting line. The whole system is full automatic and digitalized, it is safe and reliable.

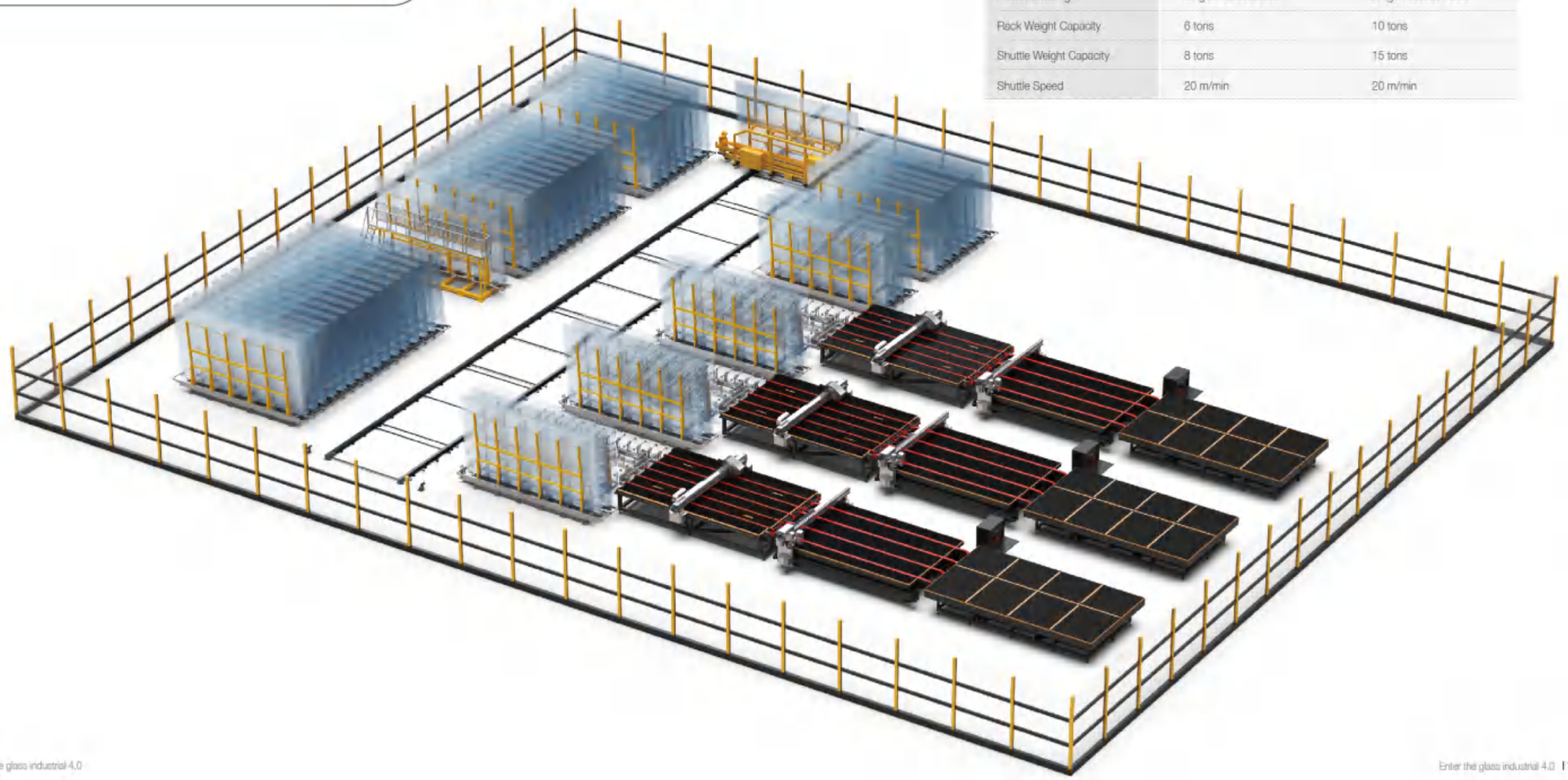


Highlights:

- High productivity and automation
- Space efficiency for more glass storage
- Intelligent data communication with cutting table or ERP
- Safety and labor free of massive glass management and transport
- Non stop working while feeding glass

Technical Data:

SSR series	SSR2737	SSR3361
Max Glass	2700x3700 mm	3300x6100 mm
Shuttle Loading	Single / Double Side	Dingle / Double Side
Rack Weight Capacity	6 tons	10 tons
Shuttle Weight Capacity	8 tons	15 tons
Shuttle Speed	20 m/min	20 m/min

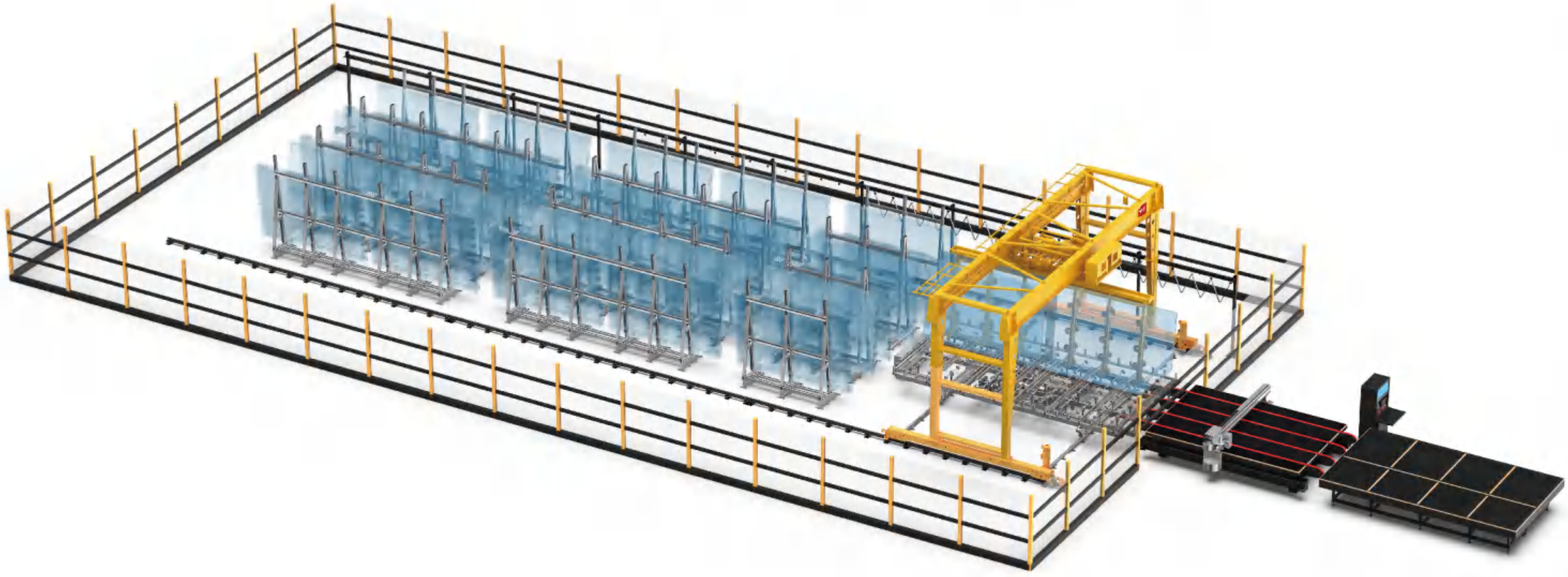


Glass Online Warehouse

Gantry Storage System

The gantry system is suitable to connect 1 to 2 cutting lines at the same time and reach fully automatic operation from storage system to cutting line. The suction cup takes the specified one or two pieces of raw glass from the rack after reading the cutting order and transfers to the cutting machine.
Visible interface on the computer which customer can check the glass details of all racks. For example glass quantity, size, color, supplier, thickness, type of glass.
Applicable for cutting processing mixed with various glass sizes.





Highlights:

- Fast and flexible for variety of glass production
- Space efficiency
- Intelligent communication with cutting table or ERP
- Safety and labor free system

Technical Data:

GSR series	
Max Glass	2440x3660 mm / 2800x4200 mm / 3300x6100 mm
Loading	Single / Double Side
Sucker Weight Capacity	1500-2000 kg
Transfer Speed	70-100 m/min

Glass Online Warehouse

Compact Storage System

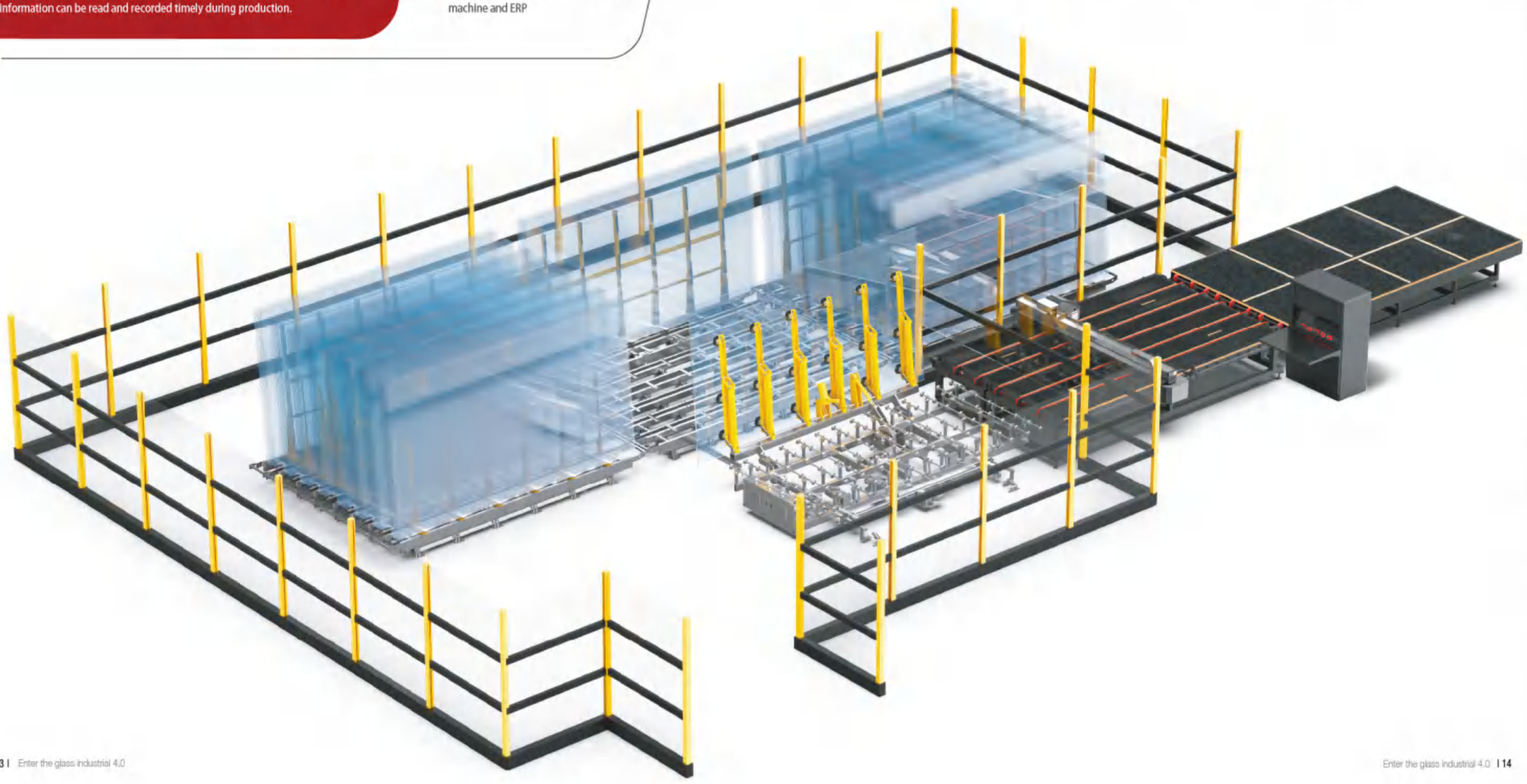
Fully automatic glass storage loading system is intelligent and combining functions of glass storage and glass loading machine. It transfers raw glass sheet to automatic cutting line through software control.
The glass rack system is suitable to connect 1 to 2 cutting lines at the same time to reach fully automatic operation from storage to cutting line. It can connect to the ERP system and read the optimized file from cutting machine. After the system read the cutting file, the specified rack moves to the rail, the loader takes the glass from the rack and transfers to the cutting machine. All glass information can be read and recorded timely during production.

Highlights:

- Easy and compact design
- Space efficiency
- Safety and labor free
- Cost friendly and easy to begin the full automatic warehouse
- Intelligent communication with cutting machine and ERP

Technical Data:

CSR series	CSR2737 / CSR2842	CSR3361
Max Glass	2800x4200 mm	3300x6100 mm
Rack Weight Capacity	6 tons	10 tons
Loader Weight Capacity	1500 kg	2000 kg
Loader Speed	20 m/min	20 m/min



Automatic Sorting Solutions

To achieve intelligent glass production, the full automatic production chain connection and powerful central integrated control system (MES) are key points. Between different glass processing procedures, the assortment is playing very important role to buffer··· sequence and optimize the different process and to achieve a best overall productivity.

MAC supplies different sorting system based on our powerful software solutions.

Vertical Sorting System

VSR series assortment with independent glass input/output shuttles track each glass piece ID and works in perfect logics according to MES/ERP system. Glass will be automatically managed according to the database order information to match comprehensive process of tempering/insulating/laminating.

The whole system is consisting of:

A. Glass specification detection table/ID reader
B. Input shuttle
C. Storage crates according to productivity requirements
D. Output shuttle
E. Control system and HMI with MES connected to ERP





Automatic Sorting Solutions

Horizontal Sorting System

HSR series horizontal sorting system is designed on the basis of a powerful and flexible logical programming system. Sorting stacker system includes measuring table/scanner reader, lifting stackers and sorting racks. The system is widely used between cutting-edging line, edging drilling/CNC, processing-tempering furnace etc.

The system will store the glass according to sizes or customer orders. It can store multiple pieces each layer based on the size of the glass. Stacker horizontal sorting system comes with tempering matrix batching system and optimized software to support the tempering process.

1. Maximize the tempering loading capacity
2. Support tempering quality priority batching
3. Customized priority batching set





Automatic Loader/Unloader

For different processing, MAC has all automatic loading/unloading machinery. The professional solution with different working cycle time and weight capacity meets all needs to upgrade the processing automation and reduce labor with safety production.



ACL Series (suitable for cutting line loading)						
Model	ACL/3727/S1	ACL/3727/D2	ACL/3727/D4	ACL/6133/S1	ACL/6133/D2	ACL/6133/D4
Max Size	2440x3660/2800x4200 mm			3300x6100 mm		
Min Size	1350x1500 mm			1350x1600 mm		
Thickness	3-19 mm					
Cycle Time	1st & 2nd station ≤ 45 sec; 3rd & 4th station ≤60 sec					

EL Series (suitable for edging position)						
Model	EL/EUL2520	EL/EUL3025	EL/EUL3525	EL/EUL4025	EL/EUL5025	EL/EUL6025
Max Size (mm)	2000x2500	2500x3000	2500x3500	2500x4000	2500x5000	2500x6000
Min Size	400x700 mm					
Thickness	3-19 mm					
Cycle Time	≤20 sec					





RL Series Robot (suitable for shower door & appliance glass process)						
Model	RL-L-4-100	RL-LZ-5-100	RL-L-4-160	RL-LZ-5-160	RL-L-4-240	RL-LZ-5-240
Glass Size (mm)	200-1000	200-1000	200-1600	200-1600	2400x1200	2400x1200
Glass Thickness (mm)	2-6	2-6	2-12	2-12	2-12	2-12
Drive Method	Servo Motor	Servo Motor	Servo Motor	Servo Motor	Servo Motor	Servo Motor
Number of Axis	4	5	4	5	4	5
Comprehensive Load (kg)	10	10	50	50	100	100
Cycle Time (sec)	4-8	4-8	8-12	8-12	8-12	8-12
Power Supply	220V 50Hz					
Air Supply	0.6 Mpa					



Robots					
Model	KR020	KR050	KR080	KR210	KR360
Axis	6	6	6	6	6
Payload	20 kg	50 kg	80 kg	210 kg	360 kg
Glass Weight	12 kg	30 kg	50 kg	150 kg	250 kg
Arm Length	1700 mm	2100 mm	2100 mm	2700 mm	2700 mm
Cycle Time (sec)	10-20	15-25	25-35	30-35	30-35

Architectural Glass Solutions

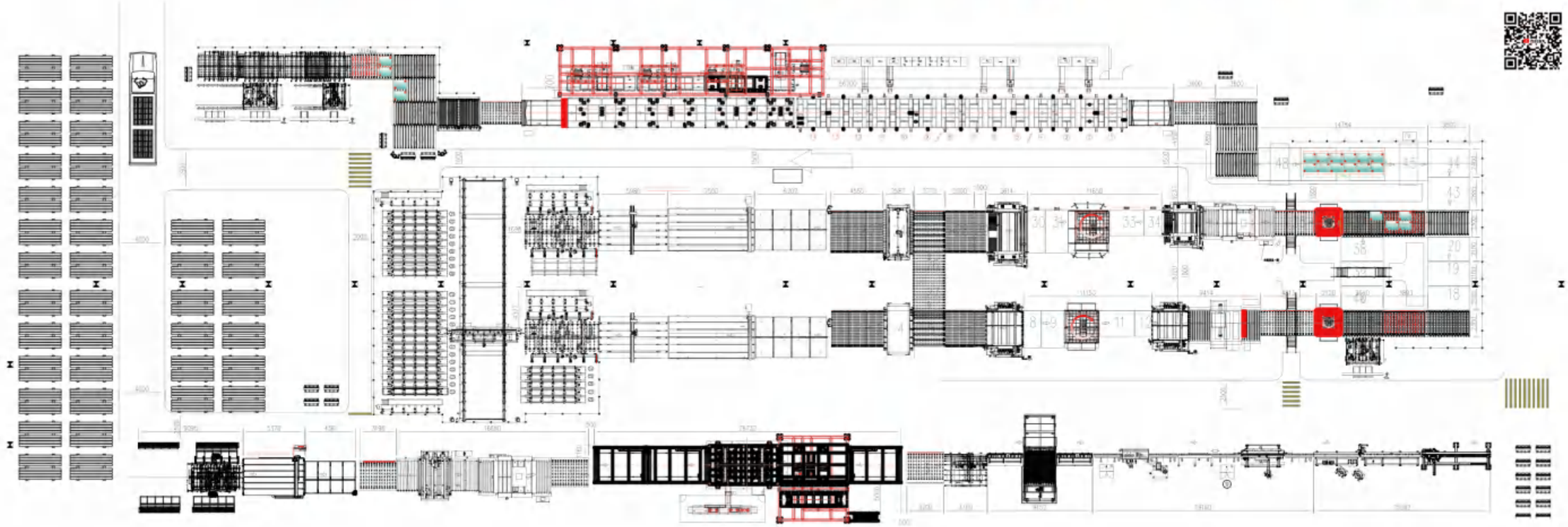
Database and algorithm driving complex variety production to achieve whole procedure accurate control, upgraded productivity, lower cost and superior quality yield.

Based on global glass industrial know-how, supply unified intelligent solutions meeting mixed order, variety size and type, different end products processing and upgrade end user business management.

Architectural Glass Solutions

- Easy business and production management
- Minimum labor with automatic production
- Upgraded productivity with variety orders
- Accurate tracking and record
- Perfect quality control
- High efficiency and low cost
- Ontime Delivery
- Superior safety





Cutting & Breaking Line

Highlights:

- High speed with superior accuracy and silence
- Intelligent HMI interface and easy operation
- Superior shape glass processing
- Glass scan and parameter automatic reading
- High standard safety design
- Self-designed optimized system
- Excellent Low-E film removing option
- Automatic breaking system at option

The complete set of cutting line works together with storage system for the whole glass processing chain supply. High accuracy, efficiency and stability guaranteed by powerful MACsoft system.





Laser Marker

Identify each glass with laser engraving

The LMT Series Laser Marker is placed between the loader and cutting machine. The laser marking system engraves the marks of glass specifications from ERP with a QR code, logo or other information according to the order requst on each cut glass. The system comes with corresponding recognizer, it can complete the online recognition of the laser code and recognize the processing request while glass is transferred to different processing machines.
The laser marking system is designed for glass ID easy tracking in the whole processing and bear the glass specifications to all the machines in the chain for automatic adjustment and record on the basis of ERP system.



Technical Data:

Description	Parameters
Model No.	PQ6133 / PQ4228
Working Height	850 mm
Weight	1700 kg
Power	4.7 kW
Max. Accelerated Speed	8000 mm/s²
Max.Speed	160 m/min
Max.Size	6100X3300 / 4200X2800 mm
Glass Thickness	2-19 mm
Accuracy	+0.15 mm
Voltage	380/50Hz or Customized
Total Air Consumption	600 L/min
Air Pressure	0.8 Mpa

Automatic Double Edging Line

Highlights:

- Superior high speed edging and polished finishing
- Leading full automatic grinding and polishing technology
- Exclusive sorting and stacking system with automatic printer
- Intelligent connection with all related machines, ERP/MES
- MAC Viewer & 4 Camera onside support any trouble-shooting in time

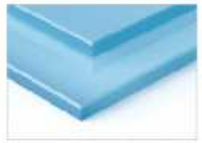
Application:

- Architectural Glass high efficient edging
- Appliance Glass high finishing pencil edging
- Shower Door, Balustrade and Rail Glass perfect polishing performance

Technical Data:

Model	LFHSZM-H25-20	LFHSZM-H42-25	LFHSZM-H60-30	LFHSZM-H60-35
Max Glass (mm)	2500×2000	4200×2500	6000×3000	6000×3500
Min Glass (mm)	350	350	550	550
Glass Thickness (mm)	3-25	3-25	3-25	3-25
Size Adjusting Speed	1-17 m/min	1-17 m/min	1-17 m/min	1-17 m/min
Processing Speed	25 m/min	25 m/min	25 m/min	25 m/min
Power	135 kW	135 kW	155 kW	155 kW
Total Weight	18000 kg	20000 kg	26000 kg	27000 kg
Working Height (mm)	930±30	930±30	930±30	930±30
Machine Size (mm)	12970×11400×2100	14700×13960×2100	18000×17100×2100	18500×17100×2100





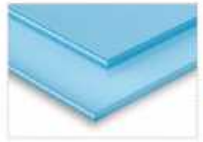
Edging & Polishing



Edging & Corner Dubbing



Grooving



Pencil Edging



Pencil Edging & Corner Dubbing

Automatic Double Edging Line

Highlights:

- Superior high speed edging and polished finishing
- Leading full automatic grinding and polishing technology
- Exclusive sorting and stacking system with automatic printer
- Intelligent connection with all related machines, ERP/MES
- MAC Viewer & 4-Camera onside support any trouble-shooting in time

Application:

- Architectural Glass high efficient edging
- Appliance Glass high finishing pencil edging
- Shower Door, Balustrade and Rail Glass perfect polishing performance

Technical Data:

Model	Spindle	Processing Size (mm)	Diagonal Tolerance (mm/m)	Parallel Tolerance (mm/m)	Speed (m/min)	Working Height (mm)
LFYM-40-1000	6/8/10/12	55-500/1000	±0.5	±0.2	0.5~6.5	830-880
LFYM-55-1000	6/8/10/12	55-500/1000	±0.5	±0.2	0.5~6.5	830-880
LFYM-70-1200	6/8/10/12	70-500/1000/1200	±0.5	±0.2	0.5~6.5	830-880
LFYM-80-1500	6/8/10/12	80-500/1000/1500	±0.5	±0.2	0.5~6.5	830-880
LFYM-100-2000	6/8/10/12	100-500/1200/2000	±0.5	±0.2	0.5~6.5	830-880
LFYM-120-2500	6/8/10/12	120-1000/1500/2500	±0.5	±0.2	0.5~6.5	830-880
LFYM-150-4200	6/8/10/12	150-1000/2500/4200	±0.5	±0.2	0.5~6.5	830-880



MAC Viewer supports all data communication, online factory and online maintenance support

Horizontal Seaming Machine

Every architectural glass processor needs a good seaming line:

- High speed arising and bottom grinding
- Strong structure and reliable performance
- Fully Automatic production for various size and thickness
- Easy maintenance and low production cost
- Good finishing for tempering
- Labor free and superior Safety
- CNC system and strong software integration
- Low-E film removing function at option



Technical Data:

Description	Parameters
Model No.	HSM2000 / HSM2500 / HSM3000
Thickness	3-12 mm
Min Processing Size	350x500 mm
Max Processing Size	2000x3000 / 2500x3600 / 3000x6000 mm
Depth of Arris	0.5-2 mm
Speed	Seaming: 1-40 m/min Seaming with Bottom Edging: 1~30 m/min
No. of Servo Motor	8 sets
Control System	CNC

Description	Parameters
Description	Parameters
Spindle & Wheels	4 Spindles x 5 Wheels
Working Height	900±20 mm
Overall Size	7800x4300x2200 / 8800x4500x2200 mm 13800 x 5100 x 2200 mm
Air Pressure	≥0.6 Mpa
Pump Capacity	200 L
Power	380V 3P 50Hz 18kW





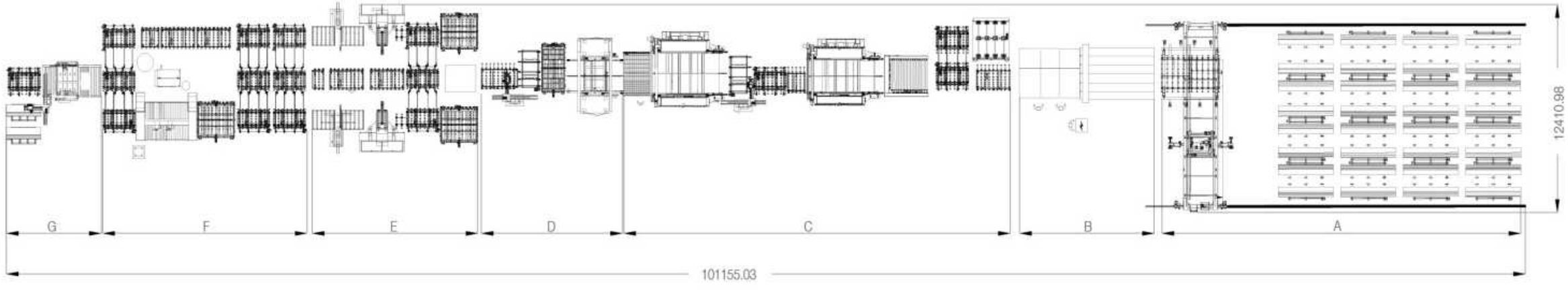
Glass Door -Balustrade Solutions

A complete solution of modern production capacity of crystal glass. Focus on the integration of different pre-processing to achieve intelligent and efficient production of complicated products drawing. Superior CAD drawing application by MACsoft system and all the processing machines online.

Glass Door-Balustrade Solutions

- Easy and automatic process
- Superior efficiency and low cost
- High quality yield rate
- Easy drawing application
- Huge labor reduction
- Production tracking and record





Corner Grinding Machine

To help you reach perfect grinding finishing, MAC-CG 44 series is the best option. It achieves different corner with arc, shape or straight line with CNC control. Make your brand powerful for any end products and distinguish your products from others with totally different finishing.

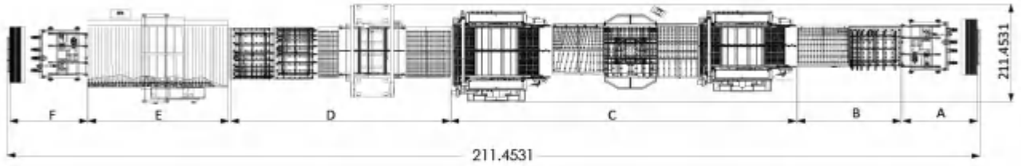
Highlights:

- CNC control with 4 heads online grinding
- Straight corner grinding processing
- Arc or any shape corner with different radius grinding
- Free online connection with other processing machinery
- Support USB data input
- Automatic QR code reading and processing (optional)
- MACsoft integration for full line free communication





Model	MAC-CG44-1000	MAC-CG44-1600	MAC-CG44-2500/3000
Spindle Qty	4 Groups	4 Groups	4 Groups
Glass Size	250x380 mm-1200x1000 mm	250x500 mm-1600x1000 mm	250x500 mm-2500x1500 mm
Chamfer Radius	R2-R40mm (optical R60,R80mm)	R2-R40mm (optical R60,R80mm)	R2-R40mm (optical R60,R80mm)
Precision	+/-0.05 mm	+/-0.05 mm	+/-0.05 mm
Weight	4800 kg	5000 kg	5300 kg
Total Power	23 kW	24 kW	25 kW
Dimension	3600x3500x2200 mm	3900x3800x2200 mm	4100x4700x2200 mm



MAC-GL: Appliance Glass, Door, Balustrade, Architectural Glass					
Max Size (mm)	A/F	B	C	D	E
1000x1000	RL-LZ-5-100/KR60	DT1010+ST1010	LFHSZM10-10/LFYM10-10	MAC-CG44-1000	HQx1300
1500x2000	EL/EUL2520/KR210	DT2015+ST2015	LFHSZM20-20/LFYM20-16	MAC-CG44-2000	HQx2000
2500x3000	EL/EUL3025	DT3025+ST3025	LFHSZM30-25	MAC-CG44-3000	HQx3000

Straight Edgers Line



Straight Edger (Chain Type)	Straight Edge (Bearing Type)	Beveling (Chain Type)	Beveling (Bearing Type)	Mitering	Pencil Edger
CSE9325E	BSE252E	CBM261D	BBM471D (Front beam)	CMM945G (Chain)	YDM6.319
CSE10325E/P	BSE262E	CBM361D	BBH471D (Premium)	CMM1045G (Chain)	-
CSE11325E/P	BSE272E	CBM261C (PLC)	-	CMM1145G (Chain)	-
CSE12325E/P	BSE282E	CBM261S	-	BMM1145/60 (Bear)	-
CSE13325E/P	BSE383E	CBM371A/C	-	BMM1045/60 (Bear)	-

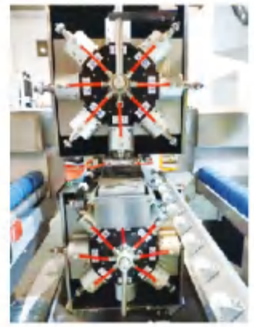
Multiple spindle Drilling Machine with tool magazine

Highlights:

- CNC control with free ERP communication
- Free online connection with other processing machinery
- 8 spindles with automatic changing for different diameter drilling
- MACsoft integration for full line free communication







Technical Data:

Model	MAC-D8
X1/X2 Axis Processing Range	0-2500 mm
Y Axis Processing Range	0-1200 mm
Drilling Diameter	6-30 mm
Glass Thickness	4-12 mm
The speed of screw propulsion	0-3 mm/s
Overall Size	5850x3800x1750 mm
The height of the table	900+/-20 mm

Waterjet (Online & Offline)

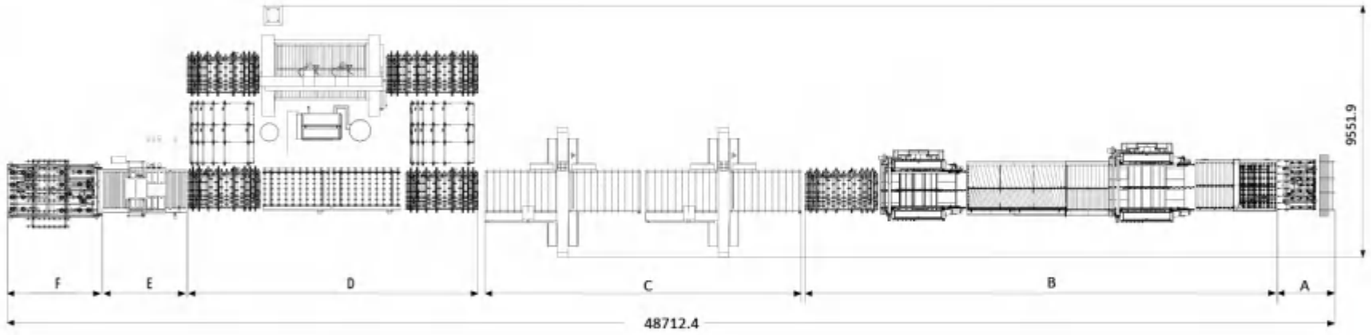
AWJ Series / WJ Series

Highlights:

- Automatic online working with other processing
- Online/offline scanner to read and process
- Superior accuracy and processing capacity
- MAC software support and ERP/MES connection

Application:

- Architectural Glass
- Appliance Glass
- Automotive Glass
- Shower Door



MAC-SD Line: Architectural Glass and Shower Door Processing						
Max processing Size	A/H	B	C	D	E	F
1500X2000mm	EL2520	LFHSZM20-20	DAS11/D8	AWJ3020	HQX2000	EUL2520
2500X4000mm	EL4025	LFHSZM42-25	DAS11/D8	AWJ4025	HQX2500	EUL4025

Cutting Platform Machine Platform	Model	AWJ2515 / AWJ3020 / AWJ4020
	Moving Speed	3-8 m/min
	Driving Mode	servo
	Control Accuracy	±0.05 mm
	Cutting Accuracy	Fixed cutting: ± 0.2 mm Transmission cutting: ± 0.5 mm
Numerical Control System	Industrial control computer and LCD are adopted	
High Voltage Generator Size: 2130mmx1500mm	Pressurization type	Liquid to liquid (pressurized by water supply of hydraulic system)
	Maximum displacement of oil pump	80 L/mine
	Maximum water displacement	3.6 L/min
	Maximum nozzle diameter	0.33 mm
	Maximum water pressure	413 Mpa (60000 psi)
	Normal working pressure	300-340 Mpa
	Motor power	37kW, 380V / 50Hz (motor brand: Siemens Bede motor)
	Commutation mode	Electronic commutation
	Main high-pressure components	The high-pressure assembly is from U.S.A.









Solar Glass Solutions

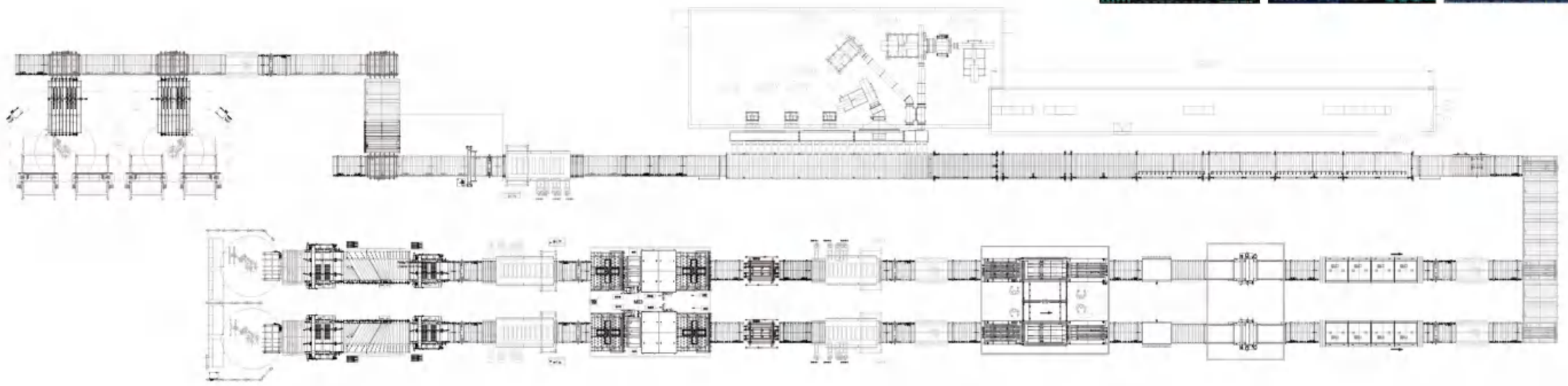
MAC robust machinery and MACsoft powerful automation joint on solar glass processing line to guarantee the 24h/260d reliable massive production. Comprehensive integration expertise and worldwide service chain obtain big investment value and dependable partnership.

Solar Glass Solutions

- High reliability and stability
- Full automatic production
- Low consumption and cost
- High yield rate
- Perfect cycle time control
- Production tracking and record



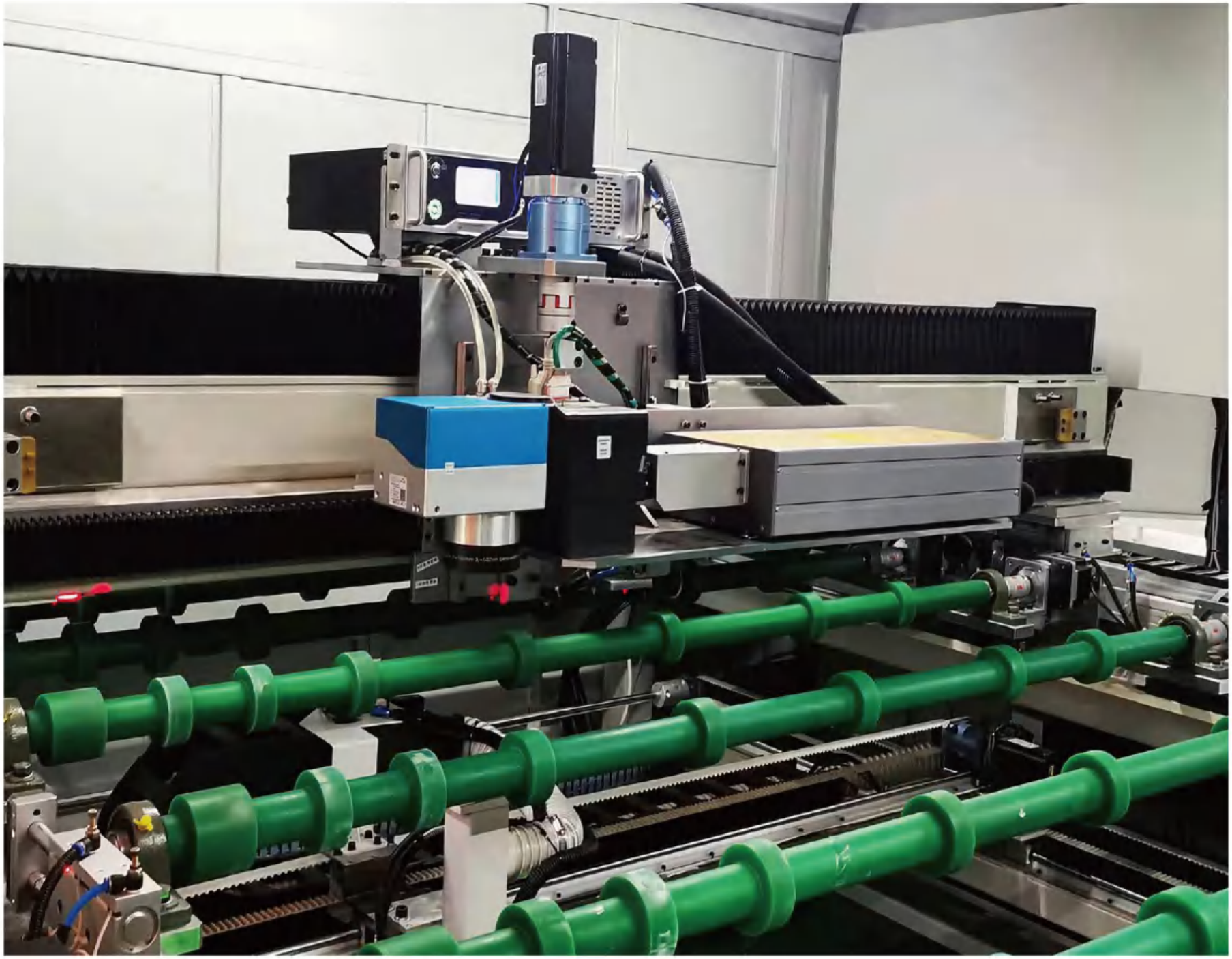


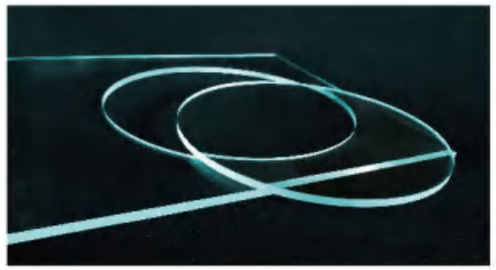


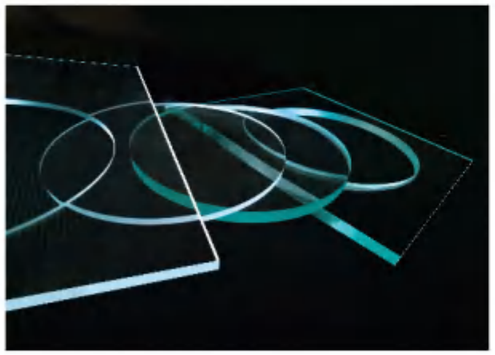
Laser Driller MAClas

Highlights:

- Superior faster
- Dramatical tool saving
- Perfect finishing performance
- No water consumption
- 4s / 3pcs Solar Glass holes







Laser Driller MAClas

Application:

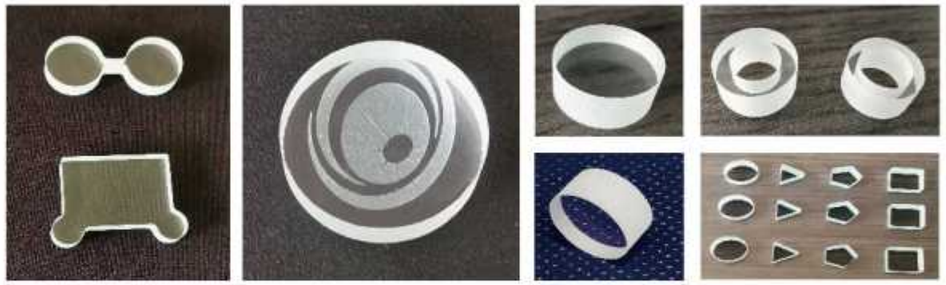
- Glass Cutting
- Glass Drilling
- Glass Decoating
- Glass Engraving inner & surface

- Photovoltaic Glass
- Electronic Glass
- Appliance Glass
- Shower Door





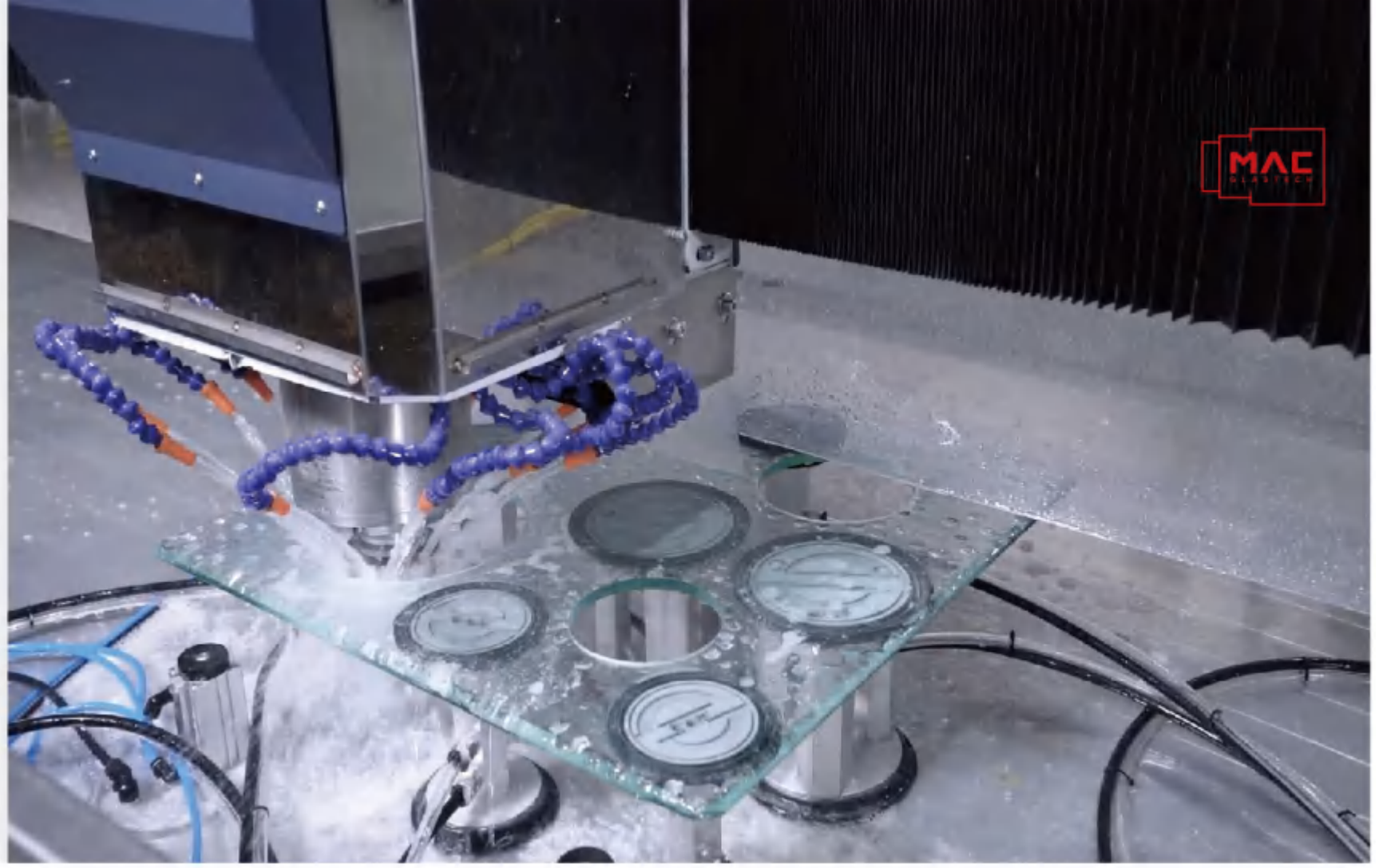
- LM series Laser Marker
- ID the glass anywhere to track your glass processing

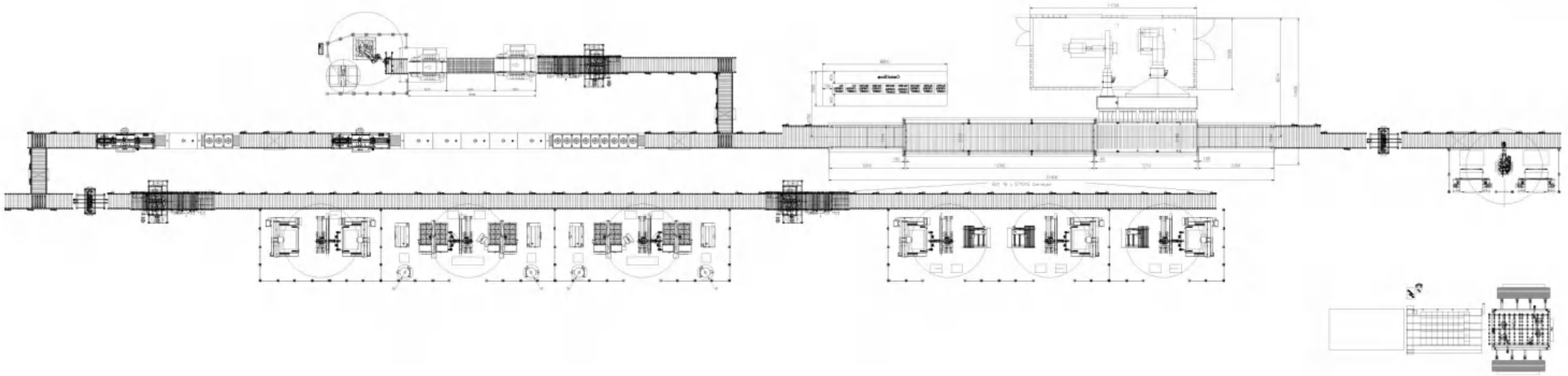


GML-3 Series Laser Driller		
Optical Device Parameters	Laser Wavelength	532nm (Green laser) / 1064nm (infrared)
	Laser Type	Nanosecond Pulse
	laser Power	35W / 50W
Processing Head	Galvanometer + Field Mirror	2.5D Dynamic Focusing
Processing Parameters	Glass Size	Min: 900×600 mm
		Max: 2500×1400 mm
	Glass Thickness	0.8-4 mm (option to 8 mm)
	Hole Diameter	2~40 mm
	Drilling Accuracy	Hole Dia Tolerance+/-0.1 mm Hole Position Tolerance+/-0.5 mm
	Edge Finishing	100~200μm
	Drilling Speed	T=2mmGlass, Φ12 Hole:<6s
	Online Cycle	6 pcs/min
	Yield Rate	>99.5%
Machine Parameters	Overall Dimension	14000(L)x3400(W)x2200(H)mm
	Weight	9000 kg
Power Requirements	Voltage	3P 380V
		Reliable protective ground wire (Electrostatic Prevention)
	Power	Total 20 kW
Ambient Environment	Ambient Temperature	20~40°c
	Ambient Humidity	30%~90%
	Field	The ground shall be flat and free of dust
Compressed Air Supply Requirements	Air Source	≥0.5 Mpa
	Air Flow	>2000 L/min
	Air Supply Quality	Dehumidification and Clean

Appliance Glass Solutions

Through high automatic connection of cutting, grinding, drilling, and painting and tempering processes to provide stylish, practical and reliable production to meet the needs of a variety of home appliances. Achieve outstanding yield rate and quality control.

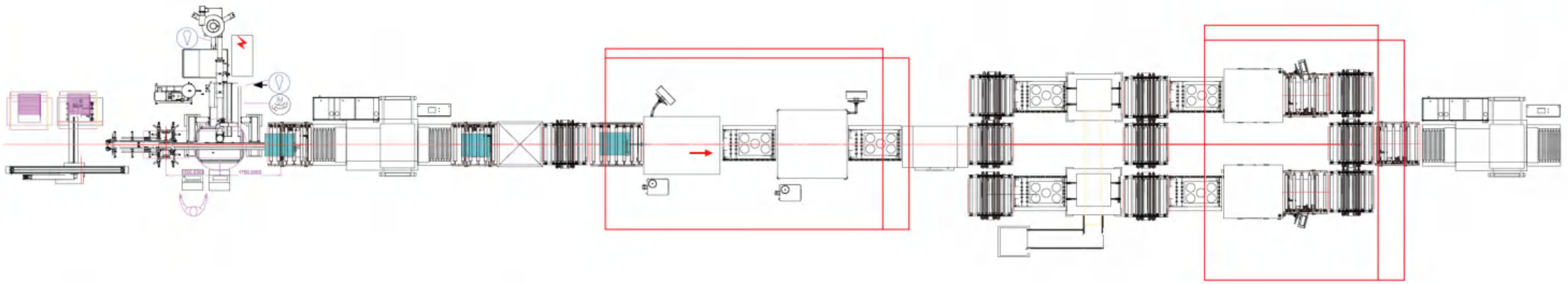




Appliance Glass Solutions

- Flexible for various products
- Full automatic production
- High yield rate
- High efficiency and low cost
- Easy process and high productivity







CNC Processing Center (Online/Offline)

GPC-A Series / GPC Series

Highlights:

- Online automatic processing with cutting, edging , washing Etc
- Timely CAD file reading and processing
- Scan positioning and tracking system for intelligent & accurate processing
- Automatic tool changing magazine
- Automatic sucker lifting and matching system
- Automatic spindle adjusting system for different processing like beveling and shape edging
- Strong control system and intelligent software integration
- Photograph positioning system at option

Application:

- Architectural Glass
- Appliance Glass
- Automotive Glass
- Electronic Glass



MAC glass processing center CNC is an all-in-one machine. It can help you with all different glass processing including cutting, drilling, milling, notching, engraving, inner/outer/shape grinding and polishing etc.

All MAC different processing center solutions can work online integrated with MAC software. It serves your architectural glass, appliance glass, automotive glass and electronic glass processing with a perfect full line solution.





GPC: Offline Glass Processing Center GPC-A: Online Glass Processing Center			
Spindle	Tool magazine and Auto changing Dia:150 mm Cooling type: Oil Cooling Rotating Speed : 12000 rpm/min Power:11kW		
Head Holder	Bt40		
Control System	Industrial PC		
Working Size	1600x800mm	1600x3200mm	1600x3600mm
	2700x1200mm	2700x3200mm	2700x5200mm
	2700x7200mm	2000x1200mm	2000x3200mm
	2000x5200mm	2000x7200mm	
	3300x3200mm	3300x5200mm	
	3300x7200mm	3300x9000mm	
	3300x12000mm	3600x24000mm	
Space Height of Z Axis	200 mm		
Inverter	15 kW		
Machine Model Type	Online / Offline		
Precision of Positioning	0.015 mm		
Precision of Repeat Positioning	0.01 mm		
Max Conveying Speed	30 m/min		
Max Processing Speed	8 m/min		
Power Requirement	AC / 380v / 25kw / 50Hz		

Automotive Glass Solutions

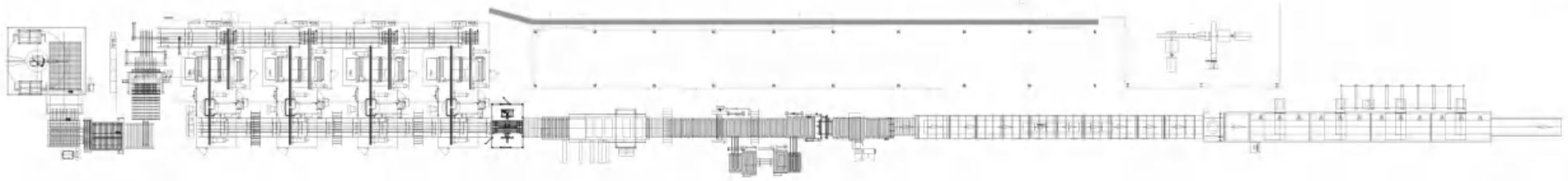
Automotive glass processing require high capacity for different finishing and processing technology in one line. The OEM market products also need superior efficiency and automation. Strong engineering team and some exclusive technology CNC achieve the most competitive efficiency and quality control.

Automotive Glass Solutions

- Full automatic comprehensive production
- Superior cycle time control
- Perfect quality control
- Flexible for different shape process
- High efficiency and low cost









4-in-1 Processing Center Velocity

MGC Series

MGC Series is one center with 4 independent stations working together with high efficient processing. Its superior velocity and processing precision is perfect for automotive and appliance glass processing.
4 stations can be integrated or stand alone working according to processing requirements.

Application:

- Automotive Glass
- Appliance Glass
- Electronic Glass

Highlights:

- CNC control system with 4 stations working synchronously
- Online connection with other processing freely
- Accurate processing for glass 1-6mm
- Superior Velocity and Precision





Technical Data:

	MGC-CBDE Multifunction glass processing unit		MGC-CBDE Multifunction glass processing unit	
	MGC-CBE Multifunctional glass cutting breaking & edging Station	MGC-D Multifunctional glass drilling machine	MGC-CBE Multifunctional glass cutting breaking & edging Station	MGC-D Multifunctional glass drilling machine
Processing Size (mm)	Max: 1300×800	Max: 1300×800	Max: 1900×1300	Max: 1900×1300
	Min: 300×300	Min: 300×300	Min: 600×500	Min: 600×500
Thickness (mm)	1.6-6.0	3.0-6.0	1.6-6.0	3.0-6.0
Overall size (mm)	7200×3900×2600	4500×2600×2400	8900×4600×2600	5830×3100×2400
Total power (kW)	50	20	56	20

Various Washing

For different glass processing, MAC always has a professional washing machine to enhance your production performance.

HQX Series	Architectural Glass / Appliance Glass / Automotive Glass / Photovoltaic Glass
HQX-T Series	Mirror / Coated Glass / Glass Painting
HQX-E Series	Electronic Glass



Water Treatment WaterTec



WaterTec is specially designed for professional treatment, recycling and environment friendly drainage of the water in wet zone of glass processing factory. It is a customized central treatment system for whole factory solution or compact design for single machine water recycling.The whole system is automatically controlled with PLC system for water recycling, filtering, sludge collection and packing.

WaterTec-S applies the RO technology to achieve a high quality purified water yield perfectly for Low-E glass washing. The system is full automatic PLC control with required water conductivity, PH value monitoring and automatic treatment function. The treated water can reach less than 10μs/cm³.

● standard ○optional

Description	HQX3300	HQX3000	HQX2500	HQX2000	HQX1700	HQX1300
Working Speed	0-7m/min	0-7m/min	0-15m/min	0-15m/min	0-15m/min	0-15m/min
Max.Width (mm)	3300	3000	2500	2000	1700	1300
Min.Size (mm)	500x500	500x500	400x400	400x400	400x400	400x400
Thickness (mm)	3-25	3-25	3-25	3-25	3-25	3-25
Total Power (kW)	48	48	45	45	42	37
Machine Size (mm/LxWxH)	7230x5300 x2840	7200x5000 x2840	7080x4500 x2840	7080x4000 x2840	6660x3700 x2840	6640x3300 x2840
Machine weight (kg)	●	4940	3940	3320	2920	2320
Light Inspection	●	●	●	●	●	●
Cylinder	●	●	●	●	●	●
Air Heater	●	●	●	●	●	●
Water Heater	○	○	○	○	○	○
Thickness Setting	Digital Display	Digital Display	Digital Display	Digital Display	Digital Display	Digital Display
PLC & HMI	○	○	○	○	○	○
Brush Diameter	Φ160	Φ160	Φ160	Φ160	Φ160	Φ160
Max Lifting (mm)	350	350	350	350	350	350
Rubber Roller Diameter	Φ75	Φ75	Φ75	Φ75	Φ75	Φ75
Speed Inverter	●	●	●	●	●	●
Brush Inverter	●	●	●	●	●	●
Blower Inverter	○	○	○	○	○	○
LOW-E Function	●	●	●	●	●	●
Output Stop Sensor	○	○	○	○	○	○
Working Height (mm)	900	900	900	900	900	900

Software



MAC is not only for the best glass machinery...
MACsoft helps you one step forward...

MACsoft is your full life cycle management system PLM+PDM. It is including ERP+ MES+ MCS+ WMS. Wherever internet on, the administration is always running on Cloud for your factory or your group companies worldwide.

Management Improvement

MACsoft helps you to build up the scientific management structure to connect your customer, production, workers, logistics and finance efficiently. Your company will be running on a organized basement with clear data flow, record and analyzation.

Reliable Quality Control

Reduce labor involvement in the production and quality control. The uniform quality standard is implemented strictly by machinery and QC scanner online. Reliability is the biggest brand value.

Visible Production Procedure

Production tracking, monitoring and feedback system to show your production to management and customer timely. All data are automatically collected and scientifically analyzed to help you constantly improve your brand and guide your company development effectively.

More efficient and organized production achieves maximized unit square meter and unit manpower output for a factory.

Saving and Safety

Saving on material, labor, space and time by optimized software and logical automatic production. Superior safety is the key points of glass production.

MACsoft is based on deep understanding of more than 1000 different global glass customers. It is practically working for big, medium and even small glass factories development...

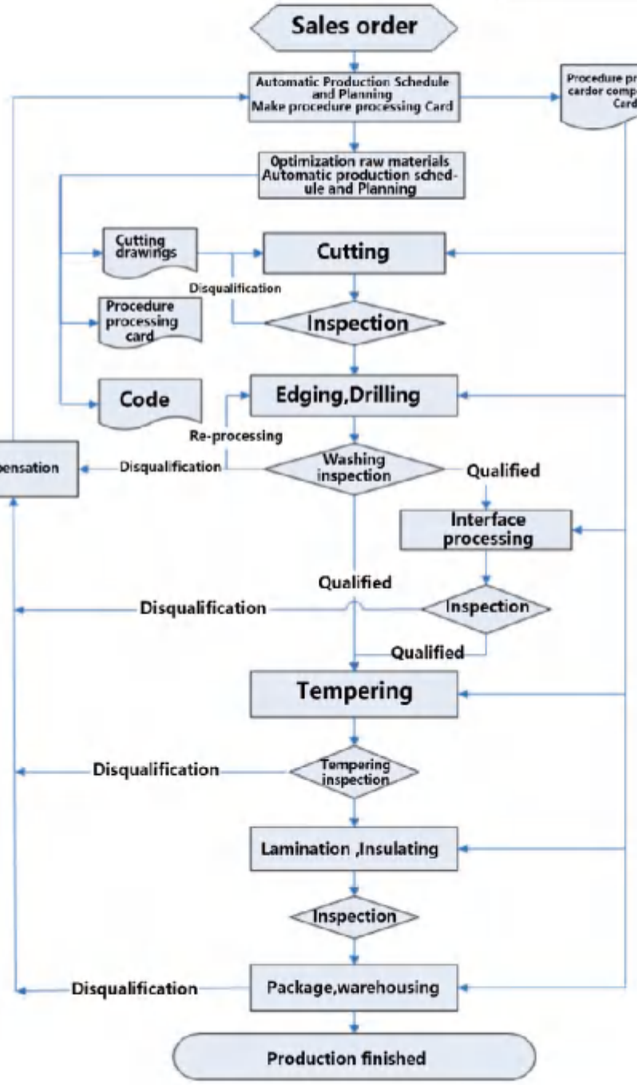
System Management	Data Reporter & Analyzer
Sales Management	Offer & Audit, Order, CRM
Material Management	OPT
Production Monitor and Management	Prodplan, Scheduler, MES, MAC Viewer, QCS, Marker
Logistics Management	WMS
Accounting Management	DOCer

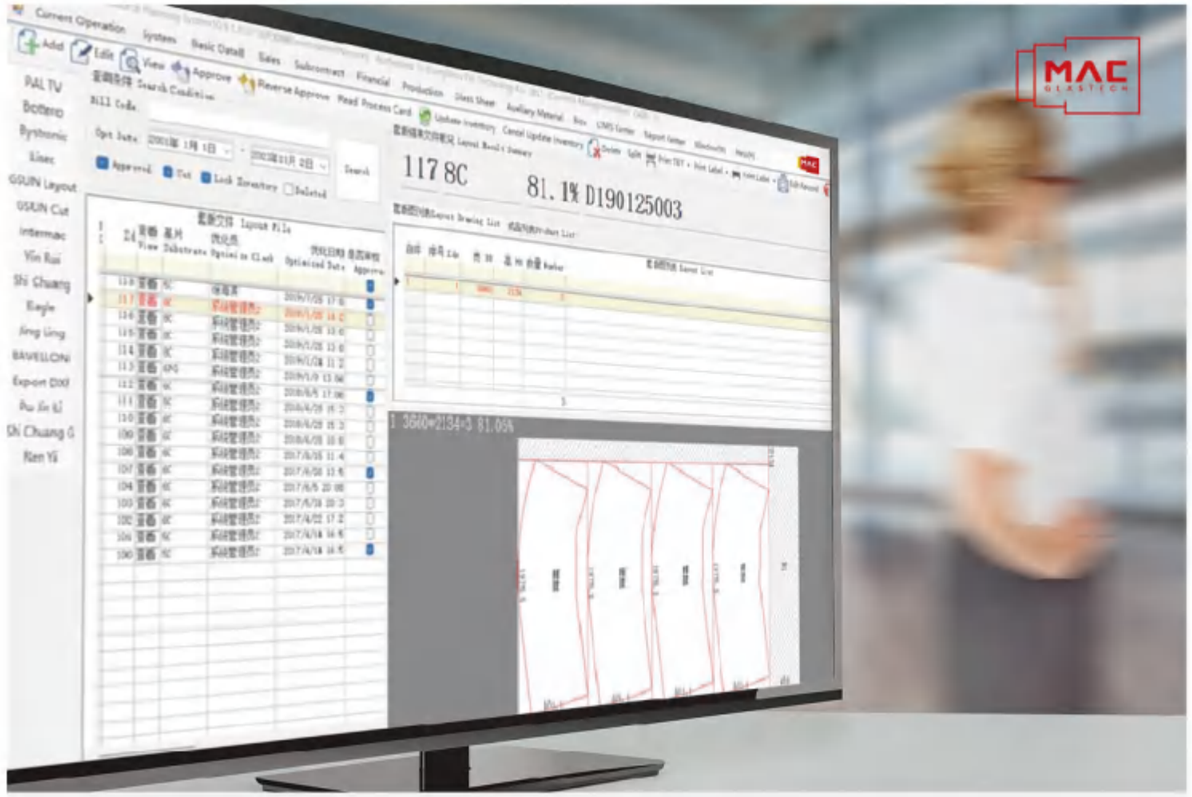
Software

MACsoft-MES: Deeper to Production
Not only the production execution system,
Also a top production optimization Manager

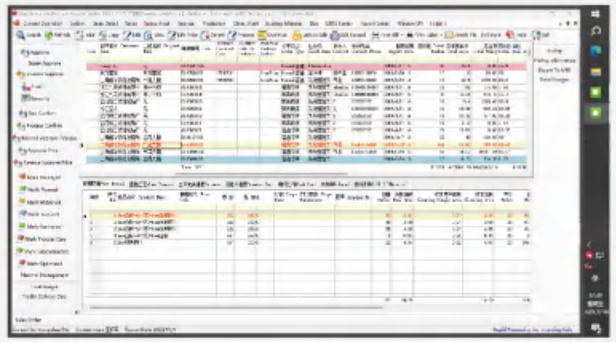
Application:

- Better Optimization Rate
- Integration with online and offline material warehouse
- Advanced process design for complex order structure
- Accurate identification and tracking
- Flexible production logics with advanced algorithm
- Superior productivity for complex orders
- Timely data report and analyzation





Ready to integrate with different cutting system:
Chinese and European brands



PRODPLAN start your production from order and warehousing material optimization, generate the multi-order process task card to share with Laser-cutting and all production procedure. The whole process is tracked according to piece cut.

Software

MACsoft sorting algorithm make a difference of your production. It in practice buffer different production to achieve overall superior productivity. Even for very mixed and complicated order, it can always help the user to achieve production target. Guarantee the tempering/insulating/laminating working out the most with lowest consumption. Production status timely tracked and reported.

- Maximum productivity
- Flexible managing variety order
- Accurate tracking and data flow
- Big storage with various sizes
- Multiple glass with different size running together
- Advanced data analyzation and production administration

