

**WOOD INDUSTRY** 

# **700T Gantry** Brochure

#### Europe

17 avenue des Grenots 91150 ETAMPES - FRANCE

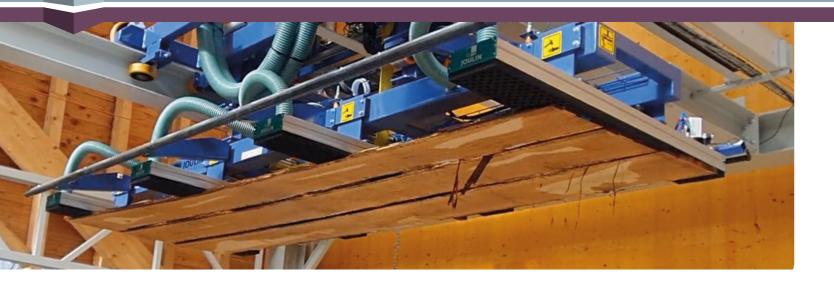
**Tél. +33 (0)1 69 92 16 16** Fax +33 (0)1 64 94 21 35

#### **USA**

2551 HWY 70 SW - HICKORY NC-28602

**Phone:** +(1)828 327 2290 Fax: +(1)828 327 8678





# **700T Gantry Robot** can be used in 80% of the Wood Industry

- Simple, strong design
- **High speed** stacker or destacker
- Quick supply of parts and service
- Flexible handling for all dimensions
- Pick or Release on multiple positions

- Manufactured in series to reduce cost and delivery time
- Manufactured using high quality, internationally known brand components
- Universal Gantry to fit the majority of needs
- Destacking or Stacking layers up to 700kg
- Largest manufacturer of gantry systems in the wood industry
- New grippers 30% more efficent and faster (ExtruGrip)
- Handles off-center boards/layers

## Fast

### & Reliable

Standardized design to reduce cost and delivery time.

#### Infinite Options

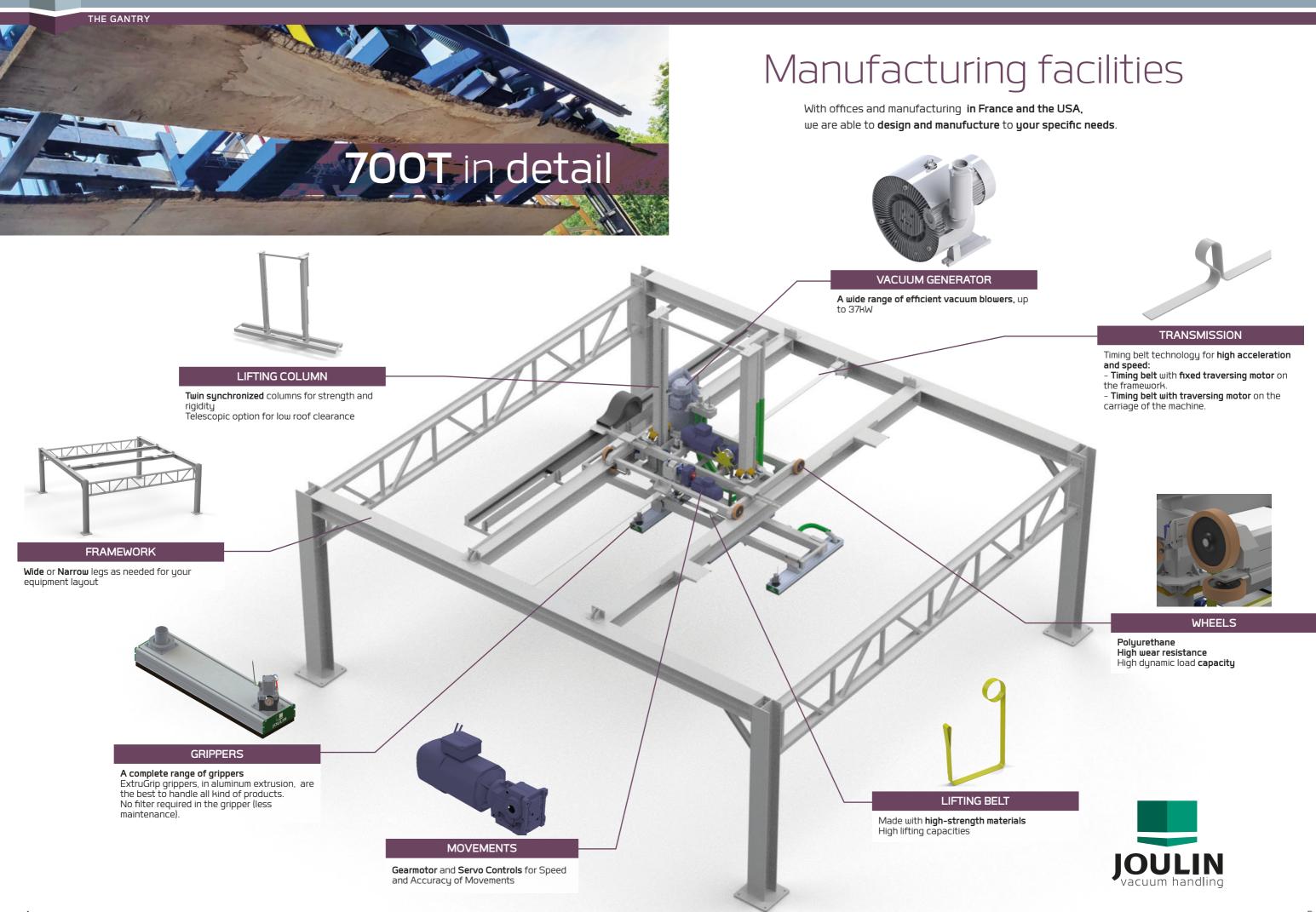
- 2 standard motor configurations; others on
- · Adjustable framework depending on your layout
- Mobile Framework
- Telescopic columns for low roof or ceiling
- Radio control



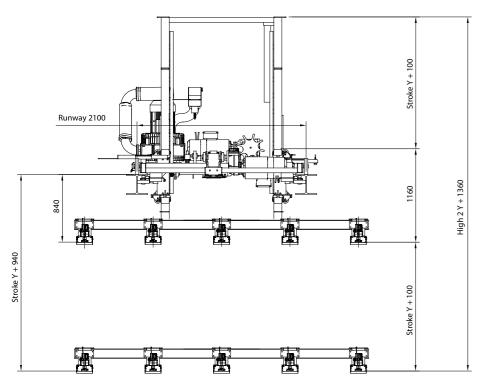
#### Applications

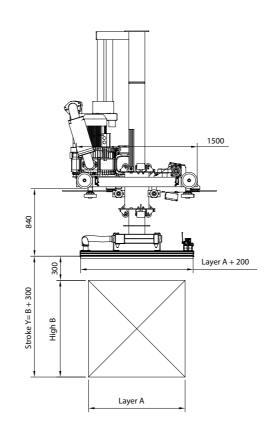
- Sticking or desticking before or after kilns
- Joinery machine infeed and outfeed
- End of line stacking
- · Band saw outfeed
- · Several lines can be fed / stacked with the same gantry robot:
- Molder / planer,
- cross cut saw,
- rip saw infeed, etc

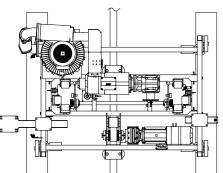
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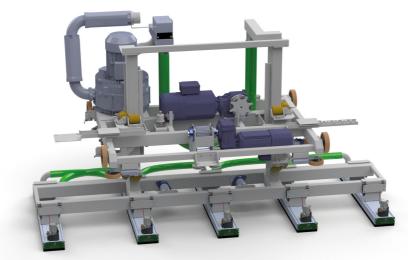












Standard Features	700T-4	700T-5	700T-6		
Board Length	2000 to 6000 mm				
Board Width	minimum 50mm				
Board Thickness	5 to 100 mm				
Pack Width	standard 1200mm				
Pack Height	standard 1200mm				
Weight of board layer	200 Kg	350 Kg	500 Kg		
Vacuum Grippers	4	5	6		
Blower Power	7,5 to 11 kW	11 to 16,5kW	16,5 to 23kW		
Lifting Stroke	300 to 2000 mm				
Lifting Motor	5,5 Kw	7,5 Kw	9,2 Kw		
Lifting Speed	0,6 to 1 m/s				
Traversing Stroke	1500 to 10000 mm				
Traversing Motor	3 Kw	4 Kw	5,5 Kw		
Traversing Speed	1 to 2 m/s				
Cycle Rate	up to 6 cycles/min				

For specifics requirements, possibility to have customized configuration - More inforation page 8

# **60 years** of experience!

Proven lumber grippers with gantry systems that **can be used in most projects**. 60 years of **Joulin experience** with all the **latest technologies**.

With over 60 years experience, JOULIN offers solutions to **fit your stacking and destacking needs**. **Custom solutions** can be proposed after studying your requirements.

Configuration	Basic	Mid-Range	Premium						
Standard Equipments									
Lifting/traversing motors & blower	✓	√	✓						
Lifting column & grippers	✓	✓	✓						
Encoder for Traversing Motor	✓	✓	✓						
Sensors mounted and plugged on wiring modules	✓	✓	✓						
Framework	-	✓	✓						
Cable Drag Chain for lift and traverse mvt	-	✓	✓						
Vertical Stroke Optimizer	-	-	✓						
Electrical control Cabinet	-	-	✓						
PLC / Programing	-	-	✓						
Frequency Inverter for Lifting	-	-	✓						
Frequency Inverter for Traversing	-	-	✓						
Touch Screen	-	-	✓						
	Options								
Pack more than 1200mm Wide	✓	✓	✓						
Pack more than 1200mm High	<b>√</b>	✓	✓						
Encoder for Lifting Motor	✓	✓	✓						
Telescopic Column (for low roof ceiling)	✓	✓	✓						
Servomotor for lifting and traversing motors	✓	✓	✓						
Remote blower and traversing motor	✓	✓	✓						
Timing belt for lifting movement	✓	✓	✓						
Rotating grippers	✓	✓	✓						
Radio Remote Control	-		✓						
Modem Connection	-	-	✓						

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# Calculate your speeds/rates!

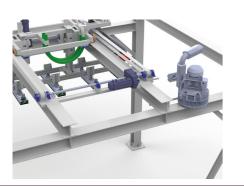


Software is now available on our website allowing you to custom design and confirm a system according to your loads and movements.



#### LIFTING TIMING BELT

Better positioning accuracy Higher speed and acceleration



#### REMOTE TRAVERSING MOTOR / BLOWER

Higher speed and acceleration



#### **GRIPPER ROTATION**

Flexibility for picking a wide range of products



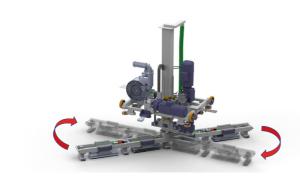
#### **TELESCOPIC COLUMNS**

Space saving for low roof / ceiling



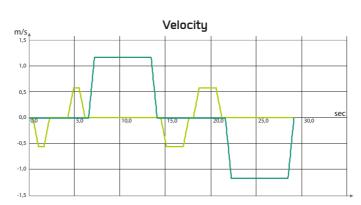
#### **SERVOMOTOR**

High speed and acceleration

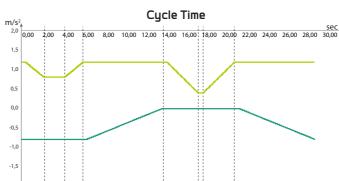


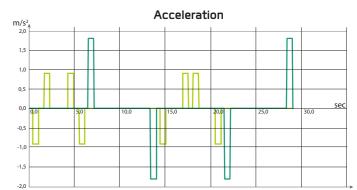
#### FRAME ROTATION

Flexibility for picking a wide range of products

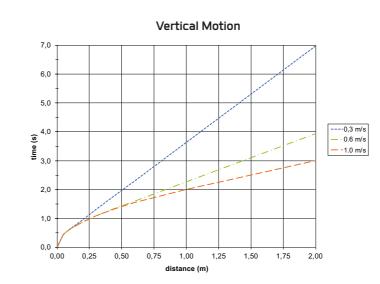


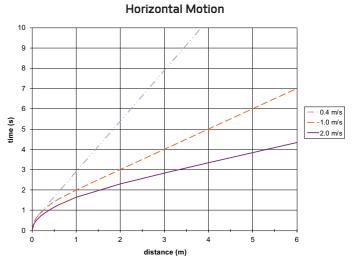






Simply fill your data and our software will help you to determine your cycle rates



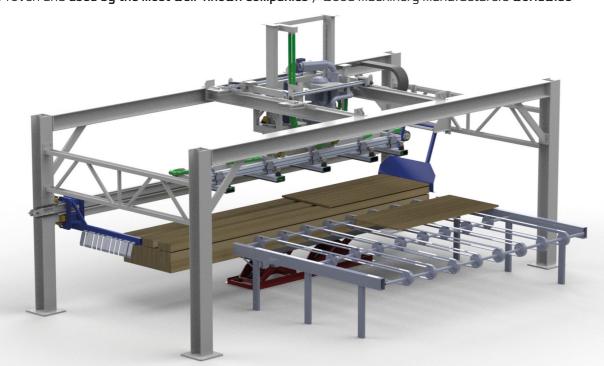


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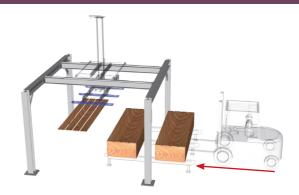
# Examples of installations

# Manufactured in US & France

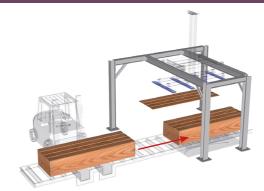
Proven and **used by the most well-known companies** / wood machinery manufacturers **worldwide** 



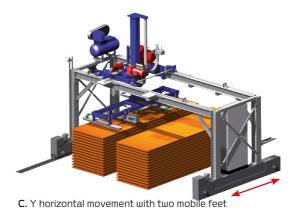
#### MECHANICAL OPTIONS



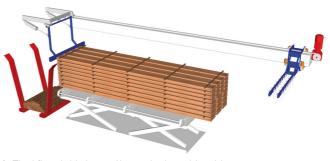




B. Narrow leg for lateral infeed by length.



#### **REMOVE STICKS**



**A.** The lifting table keeps the pack at a set height. The brush sweeps the sticks into a rack.





# Electrical supply

State of the art controls with custom programs and interactive touch screen panels.

**Many configurations** and options to fit your application up to the complete turnkey gantry robot installed by our technicians.



Example of Control Box with options



TOSIBOX

Intelligent Remote Access and Networking Device



#### RADIO

An ergonomic device allowing the remote control of your gantry robot

# Known brand components

High quality internationally known brand components are our watchword. All are CE and UL certified.



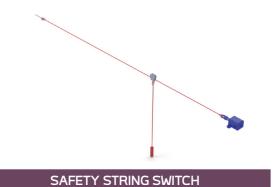
#### M12 FIELDBUS MODULE

High degree of reliability in rough environmental conditions Meet maximum electromechanical requirements



#### PNP/NPN SWITCH

Robust and highly reliable ldeal for use in demanding environmental conditions



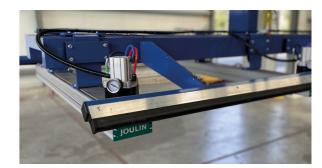
#### SALETT STURESWITCH

Allows to start / pause the cycle at anytime by simply pulling the string



#### TOUCHSCREEN

Helps in optimizing and adjusting the speed, acceleration, position and additional parameters of the system



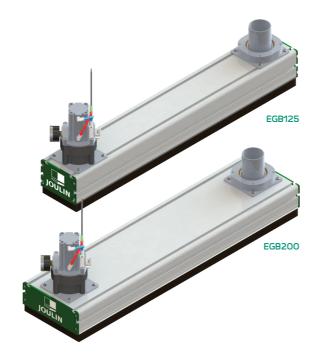
#### **SAFETY BARS**

Protects operators from shearing and pinching edges

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EGV Version with integrated venturi ejectors

EGB Version

with integrated Pick/Release Module

#### CONCEPT

- All Joulin's technology in an aluminum profile
- External vacuum source or internal with venturi ejectors
- Different foam patterns to fit your application
- Easily adaptable on existing equipment
- 30% more efficient and fast than existing grippers

#### BENEFITS

- Integrated pick/release module on EGB version
- Modular for picking layers of products
- Adaptable in length up to 3000mm
- Maximum rigidity
- Possibility of partial picking or releasing of products
- · Simplified adjustment of options in profile grooves

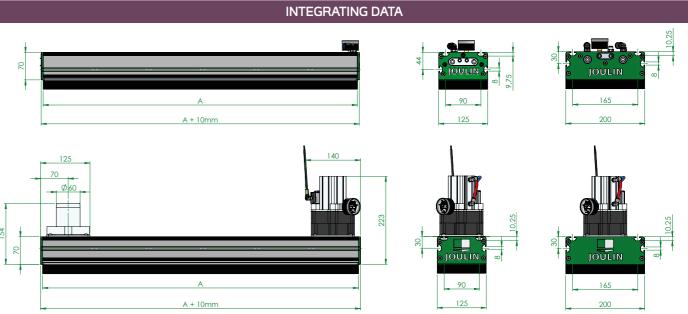
#### **EASY TO CUSTOMIZE**

- 2 available technologies: check valves or calibrated holes
- · Easy to install by utilizing the grooves
- Lower weight compared to Lumber Gripper (LG)

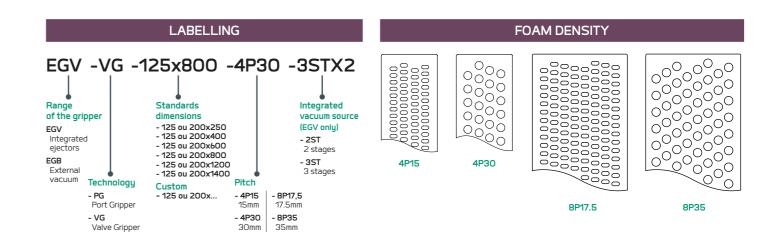


**EXTRU GRIP** 

FOAM VACUUM GRIPPER



Length of the foam A (mm)	125mm			200mm				
		EGB Weight	Air Consumption (NI/sec) - EGV		EGV Weight	EGB Weight	Air Consumption (NI/sec) - EGV	
		(kg)	4P15	4P30	(kg)	(kg)	8P17.5	8P35
250	2,7	-	3.5	1.75	4,4	-	5.25	3.5
400	3.9	4,3	3.5	1.75	5,9	6,1	7	3.5
600	5,4	5,8	5.25	3.5	8,1	8,3	8.75	5.25
800	6,9	7,3	7	3.5	10,4	10,6	12.25	7
1200	9,9	10,3	8.75	5.25	15,9	14,7	17.5	8.75
1400	11,4	11,8	14	7	17,7	16,9	21	10.5



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## A **Standard** range

For more than 60 years JOULIN has supplied the wood industries with vacuum lifters.

Our range of standard gantry robots equipped with check valve technology allows you to pick all products, partial layers, complete layers, random lengths and widths without adjustment using the same grippers.

All the models can be supplied complete turnkey or with different degrees of completion integrated in your new or existing line.

JOULIN offers 5 levels of equipment from the single gripper to the complete turnkey gantry robot to fit all your needs.

- 1- GRIPPERS
- 2- GRIPPERS AND FRAME
- **3- GANTRY ROBOT**
- 4- GANTRY ROBOT + FRAMEWORK
- 5- GANTRY ROBOT WITH CONTROL BOX + FRAMEWORK

















Maximum capacity 150 kg Up to 4 cycles per minute



Maximum capacity 200 kg Up to 10 cycles per minute



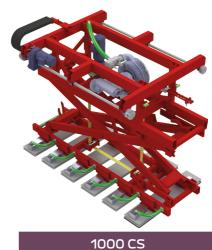
Maximum capacity 500 kg Up to 7 cycles per minute



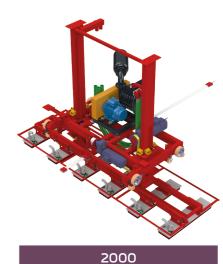
Maximum capacity 700 kg Up to 6 cycles per minute



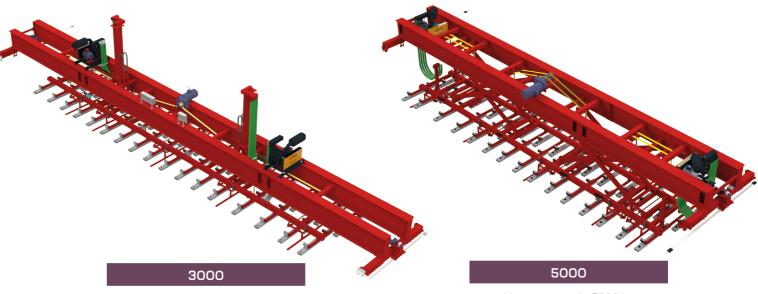
Maximum capacity 600 kg Up to 7 cycles per minute



Maximum capacity 1000 kg Up to 4,5 cycles per minute



Maximum capacity 2000 kg Up to 4,5 cycles per minute

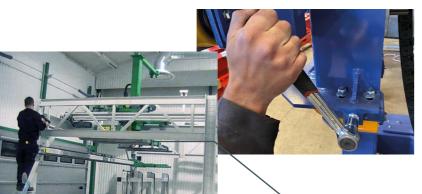


Maximum capacity 3000 kg Up to 3,5 cycles per minute

Maximum capacity 5000 kg Up to 3 cycles per minute

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#### STANDARD AND CUSTOM

Economical standard range Mutiple options Customization



#### RELIABLE PARTNER

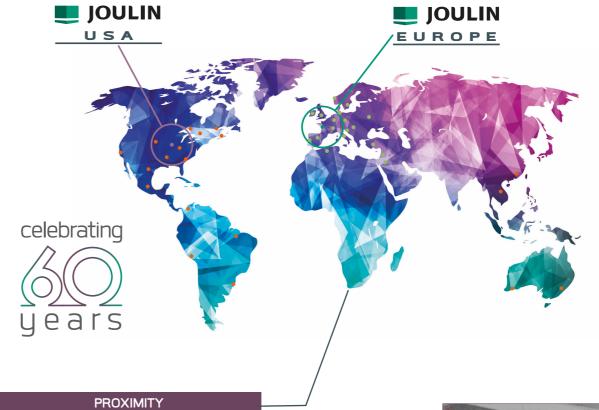
Dedicated consulting engineer Study and production 100% in-house Commercial reactivity and after-sales service



#### **CONSULTING AND SERVICES**

Family owned Guaranteed performance Customer satisfaction





Manufacturing and design facilities in France and the USA

Supplied on 5 continents



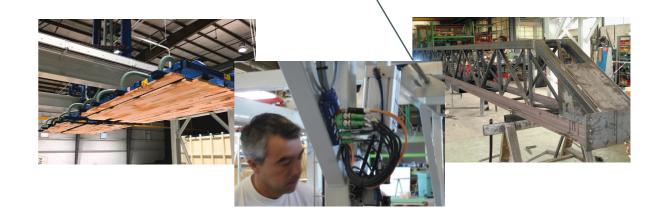
Inventor of the Foam Gripper Patented

Grippers not sensitive to dust; 50% energy **saving** compared to competitors



More than **60 years of experience** Worldwide references





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#### **USA**

2551 Hwy 70 SW - HICKORY NC-28602

**Phone:** +(1) 828 327 2290 Fax: +(1) 828 327 8678

#### France

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**Tél. +33 (0)1 69 92 16 16** Fax +33 (0)1 64 94 21 35



contact:wood@joulin.com
www.joulin.com