

JOULIN

VACUUM GRIPPERS



COMPLETE CATALOGUE

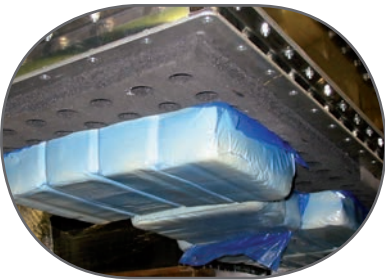


Family owned, **JOULIN** invented the foam vacuum gripper over 50 years ago; we continue to pioneer advances in vacuum technology today.

Whether you are picking a complete layer, partial layer or single part, the **JOULIN** foam gripper automatically senses and closes the check valves in areas without product, allowing the same gripper to be used with no additional set up or re-programming.

From grippers to complete turnkey vacuum handling systems, Joulin is flexible and offers a quick response to supply the best solution for you.

With manufacturing and design facilities in Europe and the USA, see for yourself why 60 countries and counting trust **JOULIN** for their handling projects.



NO ADJUSTMENT

JOULIN Foam Grippers can pick boxes, products, slip sheets and pallets without making adjustments to the gripper.



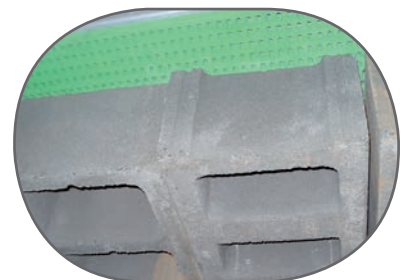
ALL TYPES OF SURFACE

Cinder blocks, bricks, timber (wet or dry), cans, open top jars, pails, boxes, twisted or uneven layers, porous parts, shrink wrapped parts, smooth or rough surfaces...



VERSATILE

Whether you are picking a complete layer, partial layer or a single part, the **JOULIN Foam Gripper** automatically senses and closes the check valves in areas without product, allowing the same gripper to pick one part or a full layer.



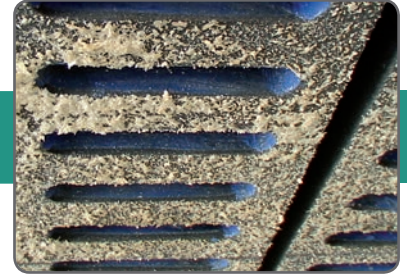
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JOULIN : Innovative Solutions

JOULIN , a world leader in lumber handling systems, offers everything from **grippers** to **complete gantry robots**.

With over 50 years experience in the lumber industry, we know how to make rugged grippers that are not sensitive to saw dust, moisture, sap, splinters, etc...



FROM THE GRIPPER



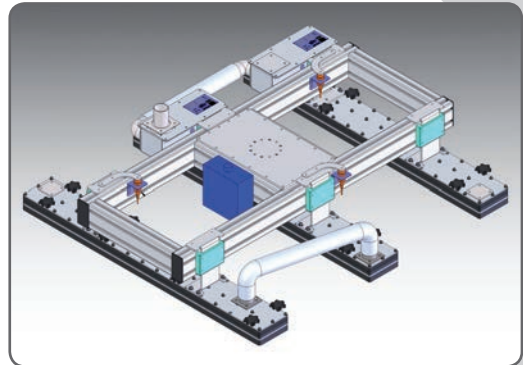
NO FILTER REQUIRED

The patented check valve design has tolerance built in to allow dust particles to pass through the gripper :

- ⇒ Rough, dry or green lumber,
- ⇒ Molded parts,
- ⇒ Complete house wall panels,
- ⇒ Pallets,
- ⇒ Heavy beams, ...

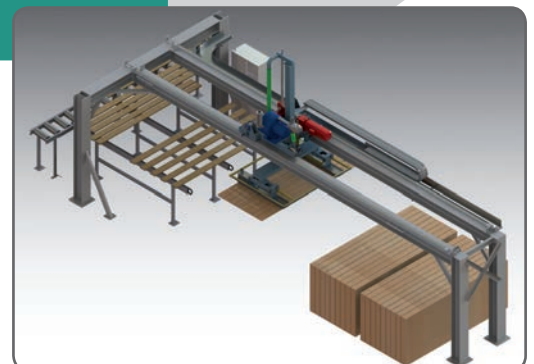
TO THE FRAME

- ⇒ As narrow as 20 mm products,
- ⇒ Wide range of standard products,
- ⇒ Easy and inexpensive to manufacture custom grippers to fit your needs,
- ⇒ Many options available,
- ⇒ Attachments to fit your robot or lifter,
- ⇒ Short delivery time.



TO COMPLETE GANTRY ROBOTS

From 10 Kg (22 Lbs) to 5000 Kg (10,000 Lbs) capacity standard gantry robots.
State of the art controls with custom programs and interactive touch screen panels.
Many configurations and options to fit your applications.



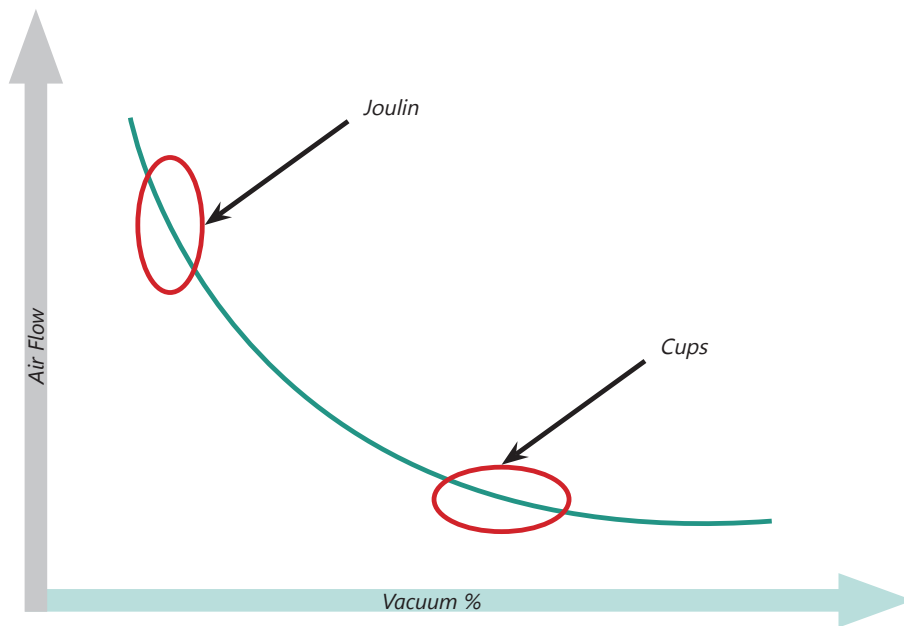
The technology

Context :

- Porous, twisted, molded and perforated products handled with a single gripper
- Too complex and difficult to handle with suction cups
- No adjustment in regard to the products to pick up

Principle :

- Foam pad automatically adapts and seals air/vacuum flow
- Higher air flow compensates for leakage (see below)
- Auto regulated valves close in area where there is no product with remaining valves active
- No adjustment required when switching between products, pallets, and slip sheets

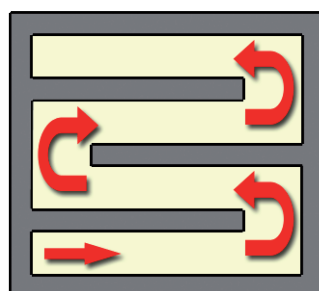


Parameters are adjustable to maximize gripper performance :

- Valve adjustment (VG range) or calibrated aperture adjustment (PG range)
- Foam seal can be adjusted through material choice, thickness and opening diameters
- Single to multiple pick zones
- Proper selection of vacuum generator assures control of air flow and vacuum level

Integrating many patents, including Wave System™ and GripTech™, Joulin's grippers are the most reliable :

- Joulin grippers quickly close check valves sequentially, saving up to 50% on energy costs
- Less sensitive valve can be installed with the same energy meaning better performance and less maintenance
- With 50 years experience in wood industry ; not affected by dust, sawdust, sand, humidity... , etc...
- No filters needed
- Adjustable valve sensitivity leads to get longer foam pad life and increase capacity



principle of Wave System™

Click here or flash this code to see the video !



JOULIN Labeling Information

FLEXIGRIP Foam Vacuum Gripper

FG-

Range of the gripper

VG-

Technology :

- VG = Valve Gripper*1
- PG = Port Gripper*1
- FB = Flexi Bag*2

GS 120

Dimensions :

- GR 80 = Round gripper Ø80 mm
- GS 80 = Square gripper 80 x 80 mm
- GR 100 = Round gripper Ø100 mm
- GS 120 = Square gripper 120 x 120 mm

-REG

*1Flow :

- REG = Regular
- HG = High

*2Frame :

- NF = with Normal Frame
- AF = with Additional Frame

-2ST

Integrated Vacuum Source :

- 1ST
- 2ST
- PLUG
- HB = Hose Barb
- XB = External Barb



Example : **FG-PG-GR80-REG-2ST**

FlexiGrip gripper with calibrated aperture adjustment, model FlexiGrip Round Ø80 with regular flow and 2 stages cartridge

PLUG&PICK Foam Vacuum Gripper

PP-

Range of the gripper

VG

Technology :

- VG = Valve Gripper
- PG = Port Gripper

120x400

Dimensions :

- 120x230 mm
- 120x400 mm
- 200x400 mm
- 160x600 mm

P20

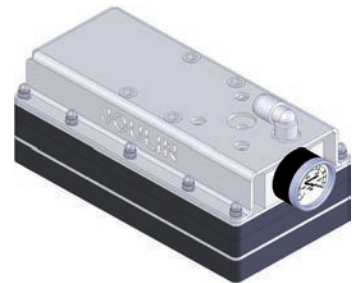
Pitch :

- P20 = 20 mm
- P40 = 40 mm

-3STX2

Integrated Vacuum Source :

- 1ST
- 2ST
- 3ST



Example : **PP-PG200x400P40-2STX2**

Plug & Pick gripper with calibrated aperture adjustment, dimensions 200mm per 400mm, pitch 40mm with two 2 stages cartridges

VALUEGRIPPER Foam Vacuum Gripper

VL-

Range of the gripper

PG

Technology :

- PG = Port Gripper

200x350

Dimensions :

- 100x250 mm
- 150x300 mm
- 200x350 mm
- 250x400 mm

-REG

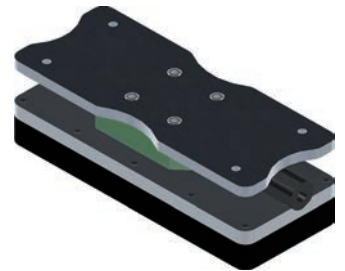
Flow :

- REG = Regular
- HG = High

-2STX2

Integrated Vacuum Source :

- 1ST
- 2ST
- PLUG
- HB = Hose Barb
- XB = External Barb



Example : **VL-PG150x300-HG-2STX2**

Value Gripper with calibrated aperture adjustment, dimensions 150mm per 300mm with high flow and two 2 stages cartridge

BAGHANDLER Foam Vacuum Gripper

BG-

Range of the gripper

100x250

Dimensions :

- R150 mm
- 100x250 mm
- 150x300 mm
- 200x350 mm
- 250x400 mm
- 300x500 mm
- 400x600 mm

-AF

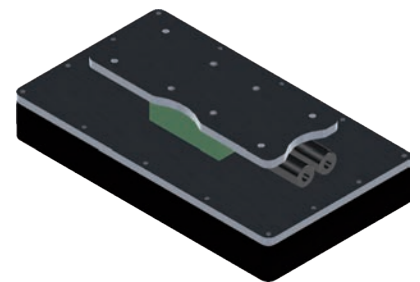
Frame :

- NF = with Normal Frame
- AF = with Additional Frame

-2STX2

Integrated Vacuum Source :

- 1ST
- 2ST
- PLUG
- HB = Hose Barb
- XB = External Barb

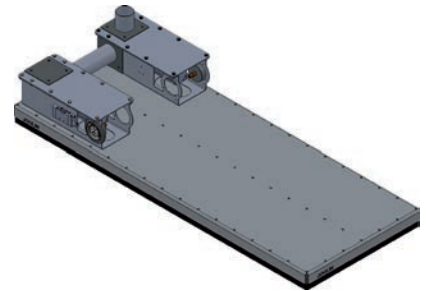


Example : **BG-400x600-NF-2STX4**

Bag Handler, dimensions 400mm per 600mm with normal frame and four 2 stages cartridges

JOULIN Labeling Information

PALLETIZER PRO Foam Vacuum Gripper



PA-

Range of the gripper

VG

Technology :

- VG = Valve Gripper
- PG = Port Gripper
- FV = Foam Valves

600x400

Dimensions :

- 600x400 mm
- 1300x260 mm
- 1300x500 mm
- 1300x900 mm
- 1310x1110 mm

-P20

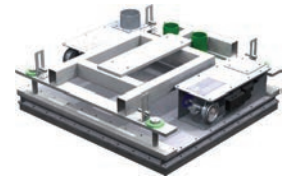
Pitch :

- P15 = 15 mm
- P20 = 20 mm
- P28 = 28 mm
- P40 = 40 mm

Example : **PA-VG1300x900-P40**

Palletizer Pro gripper, dimensions 1300mm per 900mm, pitch 40mm

CUSTOM GRIPPER SPECIAL GRIPPER Foam Vacuum Gripper Foam Vacuum Gripper



CG-

Range of the gripper :

- CG = Custom Gripper
- SG = Special Gripper

VG

Technology :

- VG = Valve Gripper
- PG = Port Gripper
- FV = Foam Valves
- MX= Mixed

420x800

Dimensions :

- custom size

-P20

Pitch :

- custom pitch

-3STX2

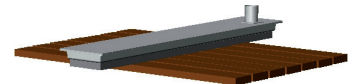
Integrated Vacuum Source*1 :

- 1ST
- 2ST
- 3ST
- nothing

Example : **CG-PG760x580-P15**

Custom Gripper, dimensions 760mm per 580mm, pitch 15mm , blower vacuum source

LUMBER GRIPPER Foam Vacuum Gripper



LG-

Range of the gripper

VG

Technology :

- VG = Valve Gripper
- PG = Port Gripper

252

Version :

- 616
- 441
- 252
- 99
- 29
- 27

-P21

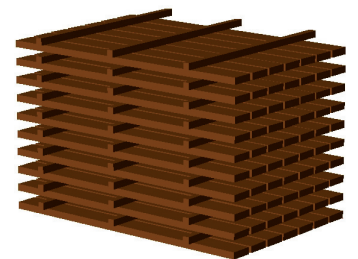
Pitch :

- P15
- P21
- P40
- P45
- P50

-N1200

Foam nominal*2 :

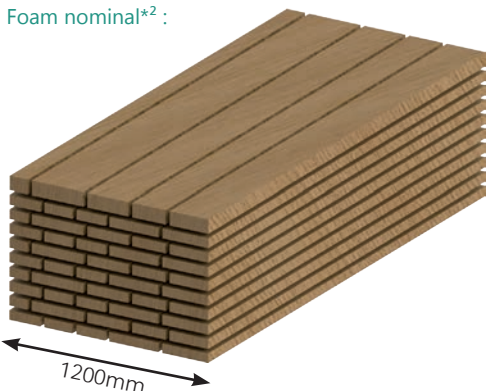
- N1200
- N1300
- N1400
- N1500
- N1600
- etc, ...



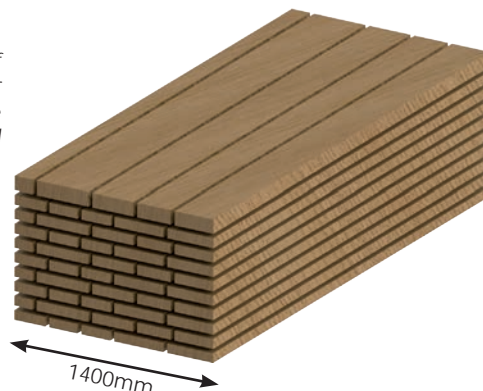
Example : **LG-VG441-P21-N1800**

Lumber Gripper VG441, pitch 21mm with foam nominal 1800

Foam nominal*2 :



For example, if width of the layer is 1200mm, the foam nominal will be N1200



If width of the layer is 1400mm, the foam nominal will be N1400

*1 If a blower is used, no reference at this place

*2 Foam nominal = width of the layer

JOULIN Benefits

Patented Wave System™

JOULIN'S patented, sequential way of operating the valves allows our grippers to be energy efficient while maintaining a high tolerance to dirt and fast robotic movements.

The JOULIN Wave System can result in up to 50% energy savings!



GripTech™ Software

JOULIN'S GripTech Software was created from our extensive database of product development over 50 years. This exclusive proprietary software brings a level of value and expertise that is unmatched in the industry.

GripTech offers quick design and quick delivery.



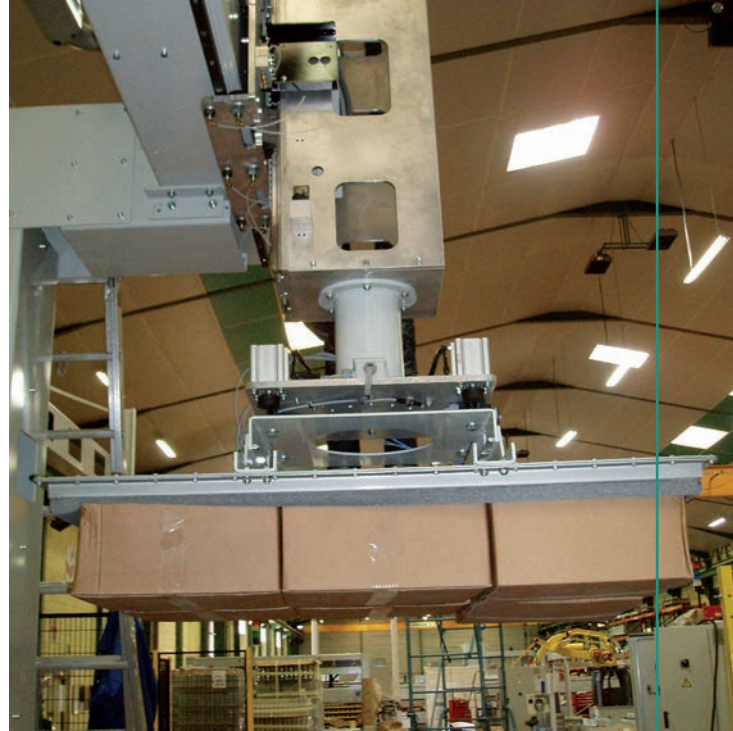
Worldwide

JOULIN is the only Foam Gripper supplier with two manufacturing and design facilities. Domestic manufacturing and shipping means savings to you !

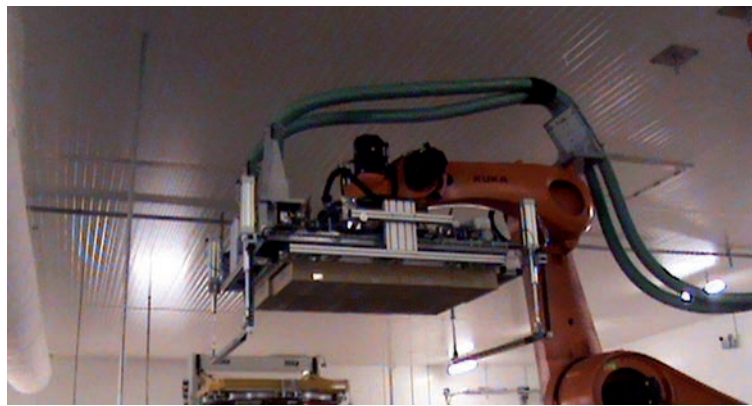


Manufacturing

JOULIN uses the most modern CNC equipment and 3D CAD software. Our capabilities and manufacturing facilities in the U.S. and Europe deliver quality, fast turnaround, and cost effectiveness.



Handling of cartons



Application :

- Pick and place different size cartons pallets and slip sheets with the same tool
- Uneven and deformed layers
- Multiple product dimensions
- Dusty environment

Joulin's solution :

- One gripper for handling products, pallets and slip sheets
- Uneven and deformed layers can be handled
- Handling of complete layers, partial layers or single product
- No adjustment needed when product changes
- Ability to pick up / release individual cartons or zones
- No damage to product
- Gripper performance not affected by dust or debris





Palletizing tins, barrels and buckets

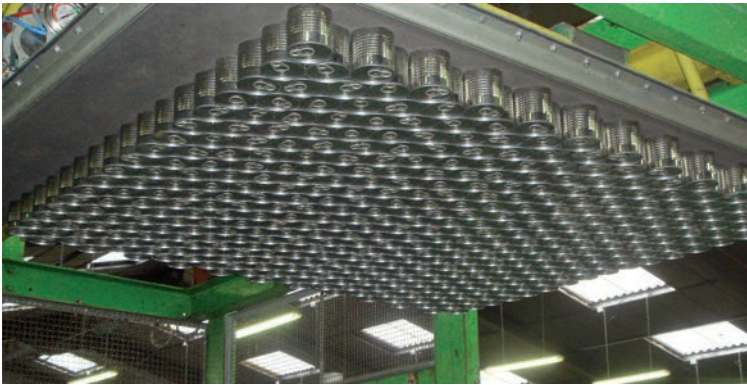
Application :

- Handling plastic, steel and aluminum containers, ... by the lid and building layers on a pallet
- Pick and place slip sheets and pallets
- Thin lids, various product locations and irregular edges
- Multiple product dimensions on the same line
- Shrink wrapped bundles of product

Joulin's solution :

- One gripper for handling products, pallets and slip sheets
- Uneven layers possible
- Handling of complete layers, partial layers or single product
- No adjustment needed when product changes
- Ability to pick up / release by individual zones
- No damage to product





Palletizing Layers of cans

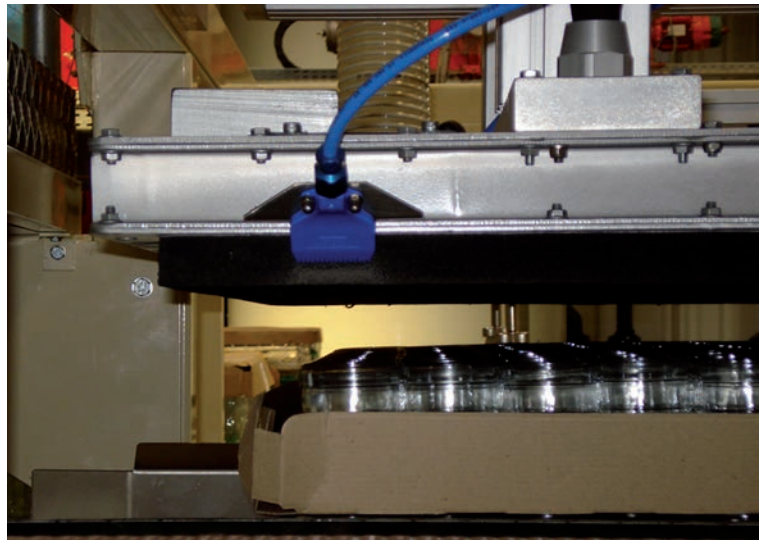
Application :

- Palletizing or depalletizing layers of open top or sealed cans
- Layers may be uneven and randomly spaced
- Multiple can diameters possible
- Slip sheet and pallet possible

Joulin's solution :

- A unique tool to handle all cans dimension, in steel or aluminum, with no adjustment
- Uneven layers possible
- Handling of complete layers, partial layers or single product
- One gripper for handling products, pallets and slip sheets
- Joulin's gripper weighs less than comparable magnetic tooling so cycle speed and capacity may be increased
- Does not collapse open containers





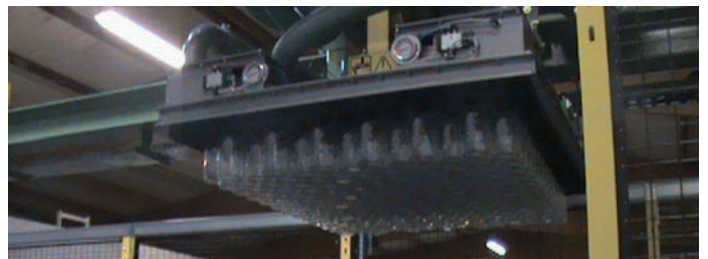
Handling of glass jars

Application :

- Palletizing or depalletizing layers of open or sealed glass jars
- Pick and place slip sheet
- Different product shapes and dimensions
- Layers may be uneven or have random spacing

Joulin's solution :

- Uneven layer and random spacing can be handled without modifying tool
- Handling of complete layers, partial layers or single product
- No adjustment needed when product changes
- No damage to product





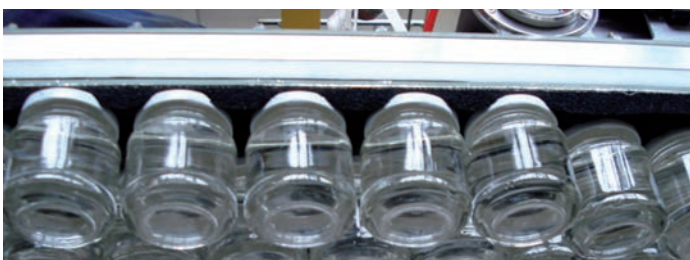
Infeed of autoclave

Application :

- Infeed and/or outfeed one or more autoclaves through a robotic cell
- Pick perforated layer sheets
- Different product shapes and dimensions from one product to another : plastic plates, aluminum cans, glass jars...
- Hot and/or damp products

Joulin's solution :

- One gripper for handling products, pallets and slip sheets
- Uneven layers can be picked
- Handling of complete layers, partial layers or single product
- No adjustment needed when product changes
- Ability to pick / release individual zones





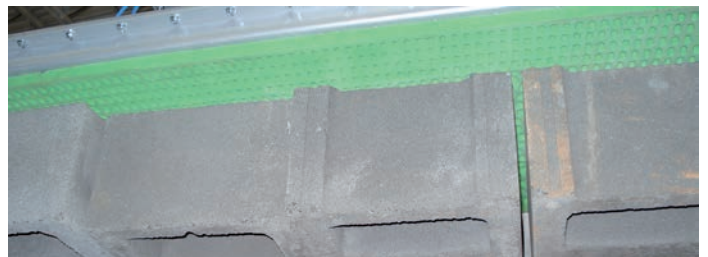
Handling building materials

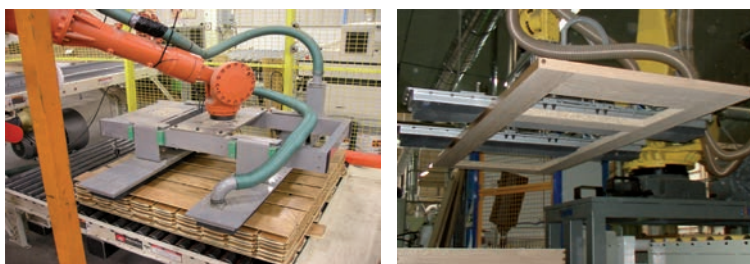
Application :

- Handling building materials such as bricks, tiles, cinder blocks, etc...
- Twisted and deformed layers
- Multiple product dimensions
- Dusty environment

Joulin's solution :

- One gripper for handling products, pallets and slip sheets
- Uneven and deformed layers can be handled
- Handling of complete layers, partial layers or single product
- No adjustment needed when product changes
- Ability to pick up / release individual zones
- No damage to product
- Gripper performance is not affected by dust or dirt





Wood handling

Application :

- Stacking or destacking packs of doors, furniture components, wood flooring, panels, rough lumber, etc...
- Random width and length
- Twisted and deformed layers
- Products with openings, grooves, etc... randomly located on product's surface
- Nested layers
- Dusty environment

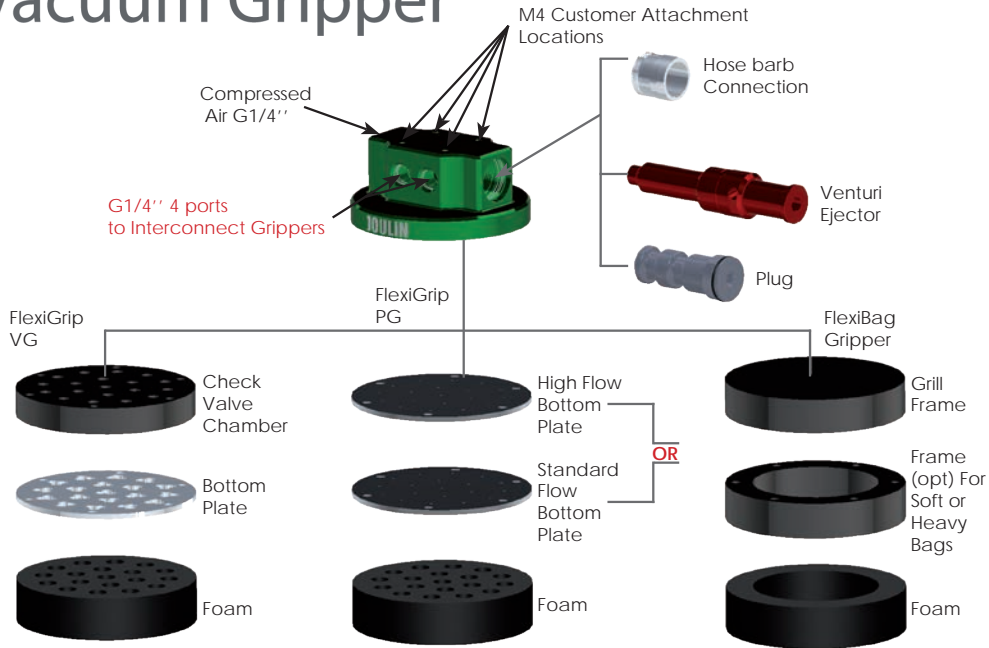
Joulin's solution :

- One gripper for handling all products dimension
- Gripper handles grooves and/or openings, anywhere on product surface
- Twisted or uneven layers may be picked
- Joulin is the worldwide leader in lumber handling
- 50 years experience in lumber handling
- Joulin grippers can handle full layers, partial layers or a single part
- No time lost changing or adjusting tool between different product runs
- Gripper performance not affected by dust or dirt



FLEXIGRIP

Foam Vacuum Gripper



FG-

Range of the gripper

VG-

Technology :
 - VG = Valve Gripper
 - PG = Port Gripper
 - FB = Flexi Bag

GS 120

Dimensions :
 - GR 80 = Round gripper Ø80 mm
 - GS 80 = Square gripper 80 x 80 mm
 - GR 100 = Round gripper Ø100 mm
 - GS 120 = Square gripper 120 x 120 mm

-AF

Frame :
 - NF = with Normal Frame
 - AF = with Additional Frame

-2ST

Integrated Vacuum Source :
 - 1ST
 - 2ST
 - PLUG
 - HB = Hose Barb
 - XB = External Barb

concept

- Foam vacuum "cups" to pick up rough, uneven surfaces
- Modular design allows fast set up for product change
- Easy integration with existing equipment

benefits

- May be powered by internal cartridge or remote vacuum generator
- Multiple grippers may share a common vacuum source to reduce energy consumption
- Rough, porous, twisted, uneven surfaces and bags can be picked up

easy to install

- (4)M4 thread holes on gripper top for easy mounting
- 10mm quick connection or Hose barb for compressed air or external vacuum supply
- Joulin patented Wave System™ saves up to 50% energy consumption

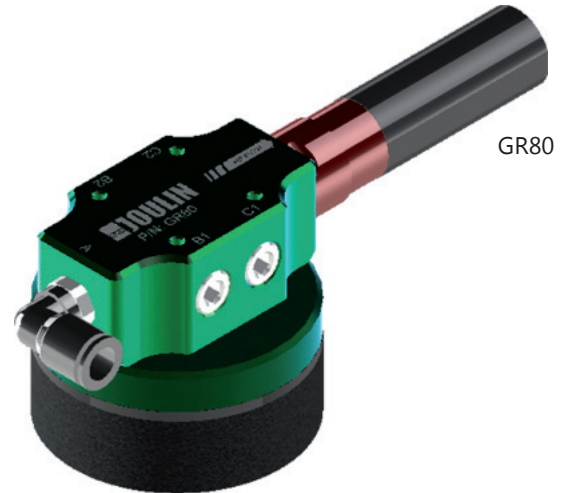
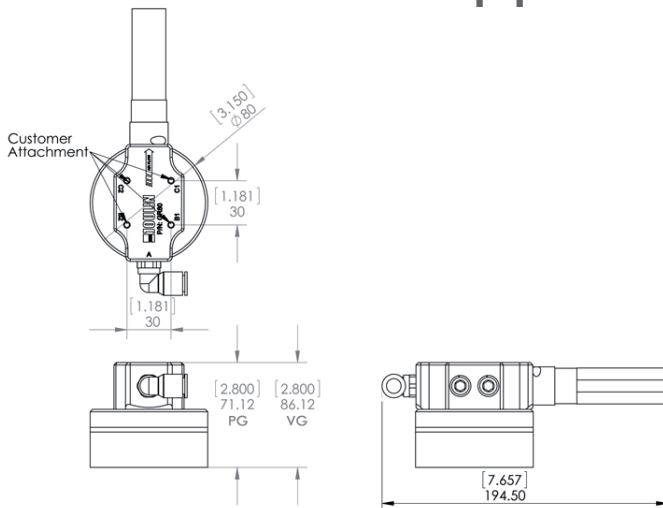
Click here or flash this code to see the video !



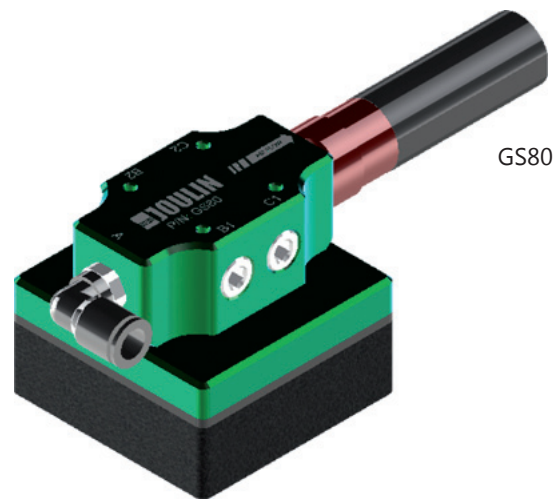
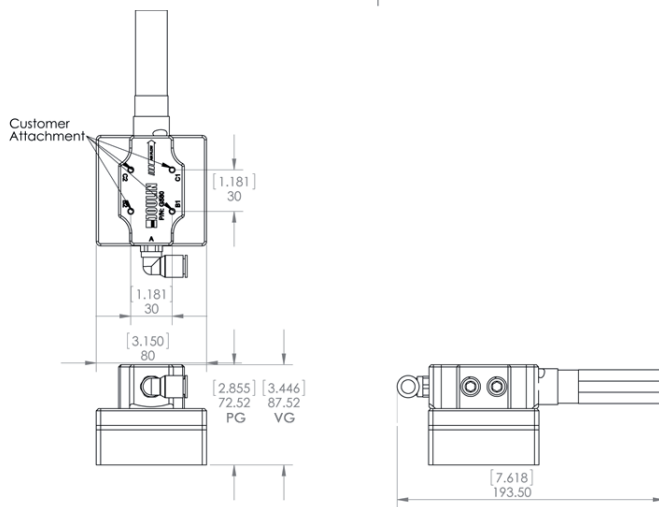
FLEXIGRIP

Foam Vacuum Gripper

GR/GS80



GR80



GS80

Feed pressure: 6 bars - 87 psi		Holding Force N(Lbs)*		
		20% Vacuum	40% Vacuum	60% Vacuum
GR80	Non-porous ...like steel	23(5)	41(9)	58(12.7)
	Semi-porous ...like wood	20(4.4)	30(6.6)	41(9)
	Porous ...like cardboard	17(3.7)	24(5.2)	33(7.2)
GS80	Non-porous ...like steel	30(6.6)	52(11.4)	74(16.3)
	Semi-porous ...like wood	26(5.7)	39(8.6)	52(11.4)
	Porous ...like cardboard	22(4.8)	31(6.8)	41(9)

80% coverage is recommended for PG Grippers - Identical values for PG/FB - *fully covered, safety factor 1.5 already applied

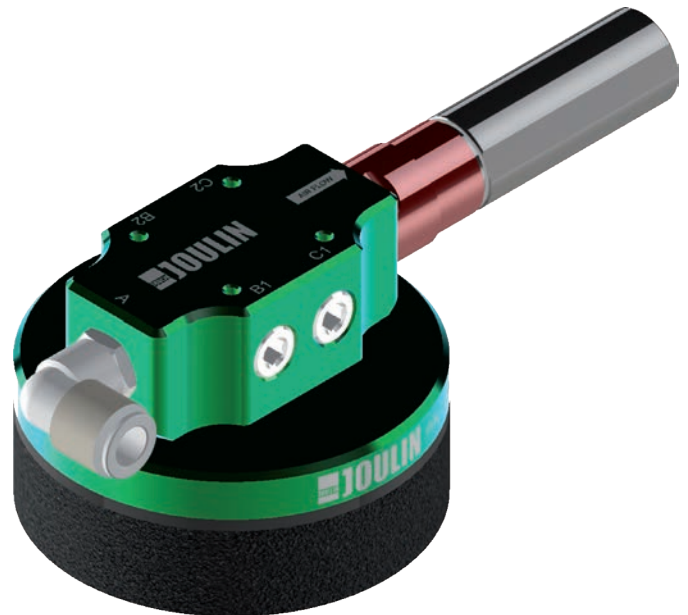
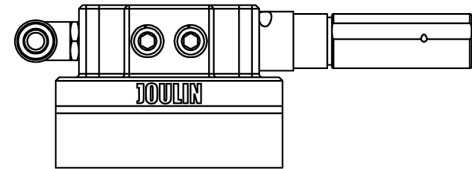
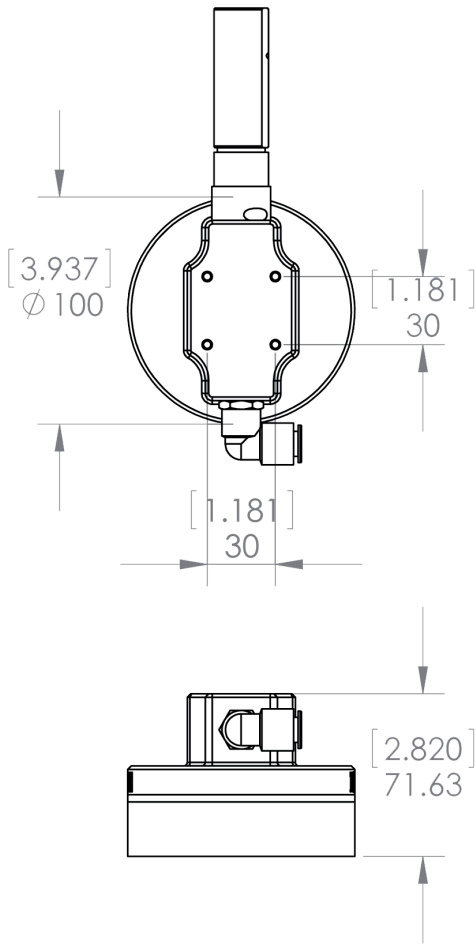
	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
FG-PG-GR80-2ST	1.75(3.71)	3.3(6.99)	0.4(0.88)	FGRF80	IM
FG-VG-GR80-2ST	1.75(3.71)	3.3(6.99)	0.5(1.1)	FGRF80	IM
FG-PG-GS80-2ST	1.75(3.71)	3.3(6.99)	0.5(1.1)	FGF80.8	IM
FG-VG-GS80-2ST	1.75(3.71)	3.3(6.99)	0.6(1.32)	FGF80.8	IM
FG-FB-GR80-2ST	1.75(3.71)	3.3(6.99)	0.5(1.1)	FGBRF80	IM
FG-FB-GS80-2ST	1.75(3.71)	3.3(6.99)	0.6(1.32)	FGBF80	IM

specifications are subject to change

FLEXIGRIP

Foam Vacuum Gripper

GR100



Feed pressure: 6 bars - 87 psi		Holding Force N(Lbs)*		
		20% Vacuum	40% Vacuum	60% Vacuum
GR100	Non-porous ...like steel	43(9.5)	76(16.7)	114(25.1)
	Semi-porous ...like wood	38(8.3)	49(10.8)	65(14.3)
	Porous ...like cardboard	32(7)	49(10.8)	65(14.3)

80% coverage is recommended for PG Grippers - Identical values for PG/VG/FB - *fully covered, safety factor 1.5 already applied

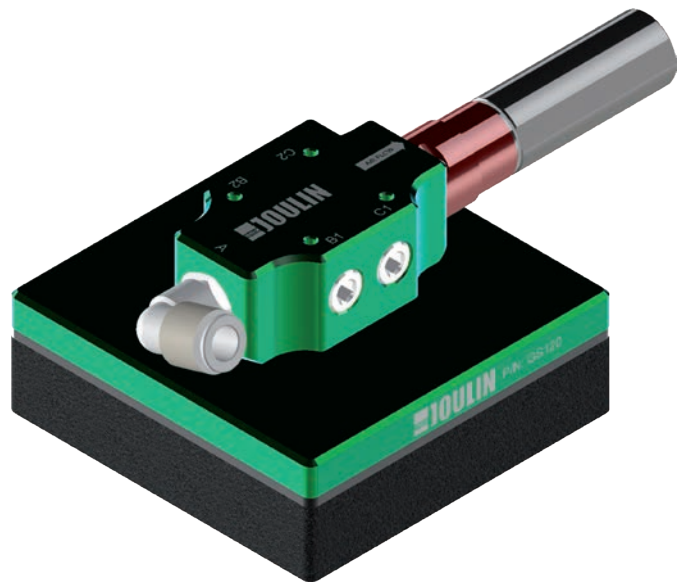
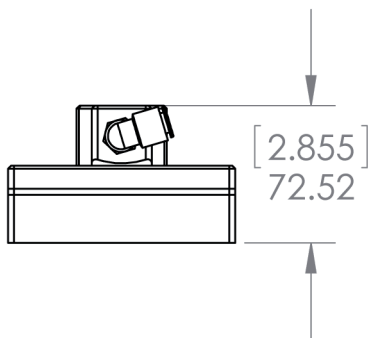
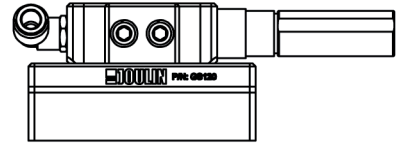
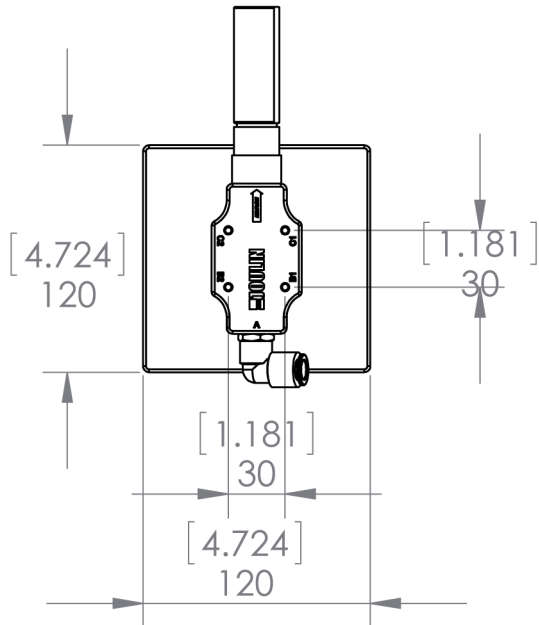
	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
FG-PG-GR100-2ST	1.75(3.71)	3.3(6.99)	0.5(1.1)	FGR100	IM
FG-VG-GR100-2ST	1.75(3.71)	3.3(6.99)	0.6(1.32)	FGR100	IM
FG-FB-GR100-2ST	1.75(3.71)	3.3(6.99)	0.6(1.32)	FGBR100	IM

specifications are subject to change

FLEXIGRIP

Foam Vacuum Gripper

GS120



Feed pressure: 6 bars - 87 psi		Holding Force N(Lbs)*		
		20% Vacuum	40% Vacuum	60% Vacuum
GS120	Non-porous ...like steel	80(17.6)	140(30.8)	210(46.2)
	Semi-porous ...like wood	70(15.4)	90(19.8)	120(26.4)
	Porous ...like cardboard	60(13.2)	90(19.8)	120(26.4)

80% coverage is recommended for PG Grippers - Identical values for PG/VG/FB - *fully covered, safety factor 1.5 already applied

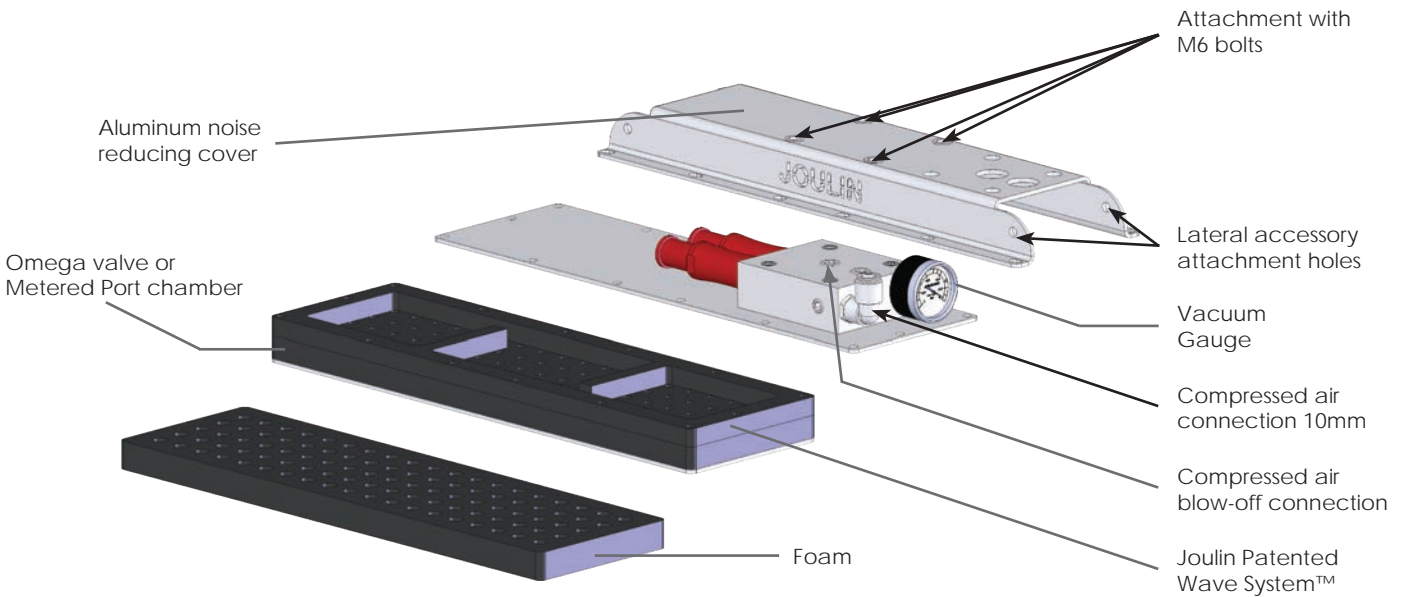
	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
FG-PG-GS120-2ST	1.75(3.71)	3.3(6.99)	0.8(1.76)	FGF120.120	IM
FG-VG-GS120-2ST	1.75(3.71)	3.3(6.99)	1.0(2.20)	FGF120.120	IM
FG-FB-GS120-2ST	1.75(3.71)	3.3(6.99)	1.0(2.20)	FGBF120.120	IM

specifications are subject to change

PLUG & PICK

PLUG & PICK

Foam Vacuum Gripper



PP-

Range
of the gripper

VG

Technology :
- VG = Valve Gripper
- PG = Port Gripper

120x400

Dimensions :
- 120x230 mm
- 120x400 mm
- 200x400 mm
- 160x600 mm

P20

Pitch :
- P20 = 20 mm
- P40 = 40 mm

-3STX2

Integrated
Vacuum Source :
- 1ST
- 2ST
- 3ST

versatile

- Gripping power remains constant whether single part or entire layer
- Switch from products, to slip sheets, to pallets without adjustment
- Rugged and not affected by dust

compact

- Flush edge design for «place carton in box» applications
- Custom designs available for specific applications
- Units are self contained

easy to install

- Quick connect 10mm compressed air connections
- Retrofit existing cups or existing pump system
- Joulin patented Wave System saves up to 50% energy consumption

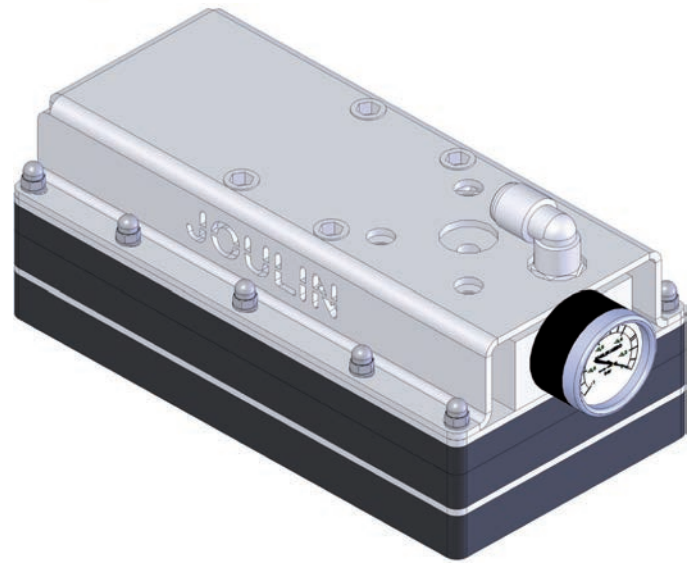
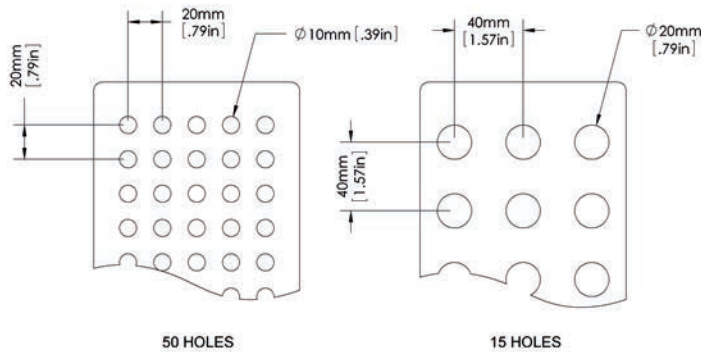
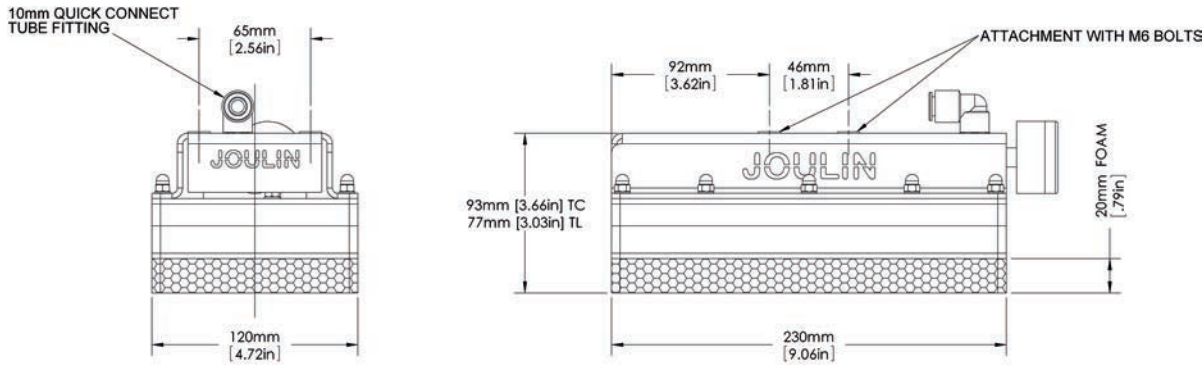
Click here or flash this
code to see the video !



PLUG & PICK

Foam Vacuum Gripper

PP120 x 230



Feed pressure: 6 bars - 87 psi		Holding Force N(Lbs)*		
		20% Vacuum	40% Vacuum	60% Vacuum
VG 120x230	Non-porous ...like steel	140(30.8)	270(59.4)	400(88)
	Semi-porous ...like wood	130(28.6)	210(46.2)	250(55)
	Porous ...like cardboard	115(25.3)	200(44)	230(50.6)
PG 120x230	Non-porous ...like steel	140(30.8)	270(59.4)	400(88)
	Semi-porous ...like wood	100(22)	150(33)	200(44)
	Porous ...like cardboard	70(15.5)	120(26.4)	170(37.4)

80% coverage is recommended for PG Grippers - *fully covered, safety factor 1.5 already applied

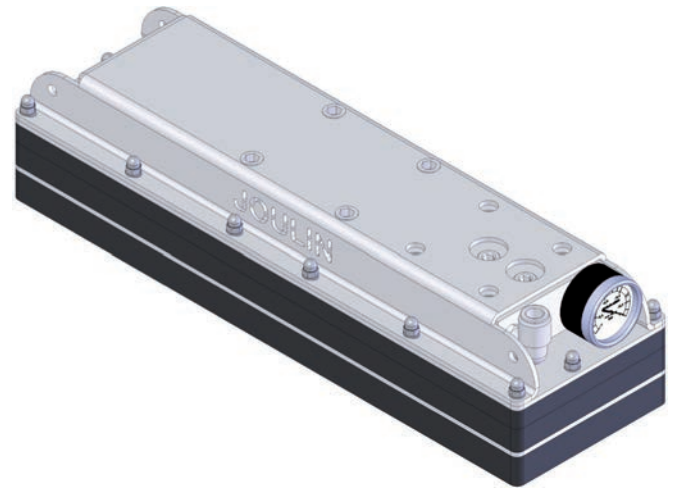
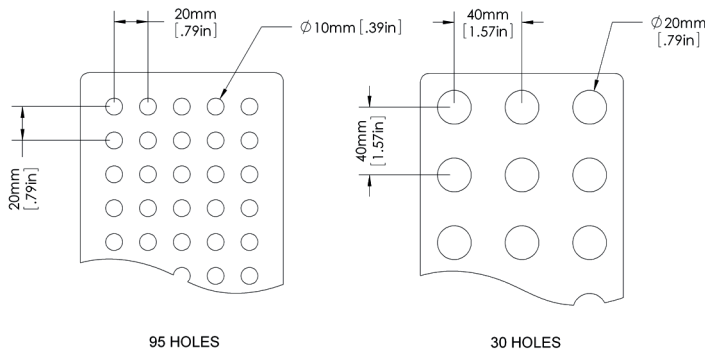
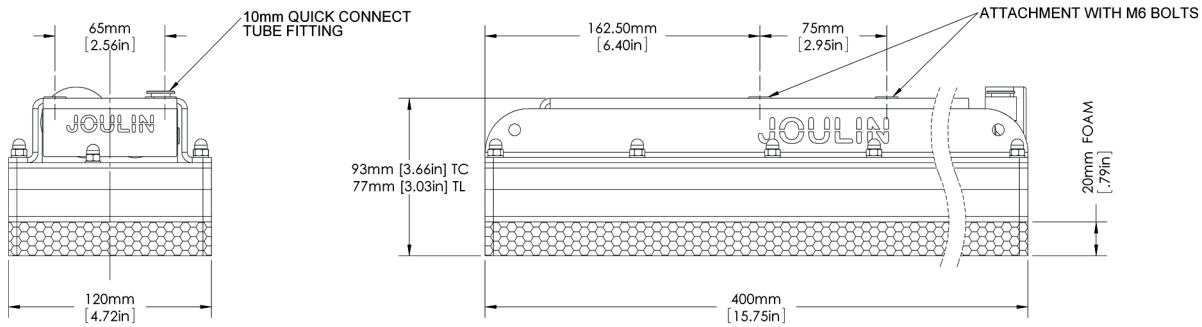
	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
PP-PG120x230P20-2ST	1.75(3.71)	3.3(6.99)	1.55(3.42)	PPF120.230-20	PPMS
PP-VG120x230P20-3ST	1.75(3.71)	6(12.7)	2.3(5.07)	PPF120.230-20	PPMS
PP-PG120x230P40-2ST	1.75(3.71)	3.3(6.99)	1.55(3.42)	PPF120.230-40	PPMS
PP-VG120x230P40-3ST	1.75(3.71)	6(12.7)	2.3(5.07)	PPF120.230-40	PPMS

specifications are subject to change

PLUG & PICK

Foam Vacuum Gripper

PP120 x 400



Feed pressure: 6 bars - 87 psi		Holding Force N(Lbs)*		
		20% Vacuum	40% Vacuum	60% Vacuum
VG 120x400	Non-porous ...like steel	290(63.8)	570(125.4)	850(187)
	Semi-porous ...like wood	250(55)	340(74.8)	470(103.4)
	Porous ...like cardboard	190(41.8)	290(63.8)	400(88)
PG 120x400	Non-porous ...like steel	290(63.8)	560(123.2)	830(182.6)
	Semi-porous ...like wood	200(44)	340(74.8)	470(103.4)
	Porous ...like cardboard	180(39.6)	290(63.8)	400(88)

80% coverage is recommended for PG Grippers - *fully covered, safety factor 1.5 already applied

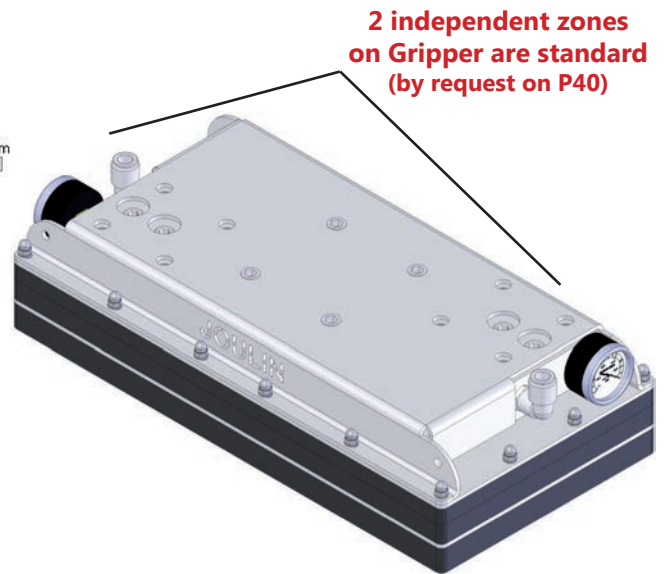
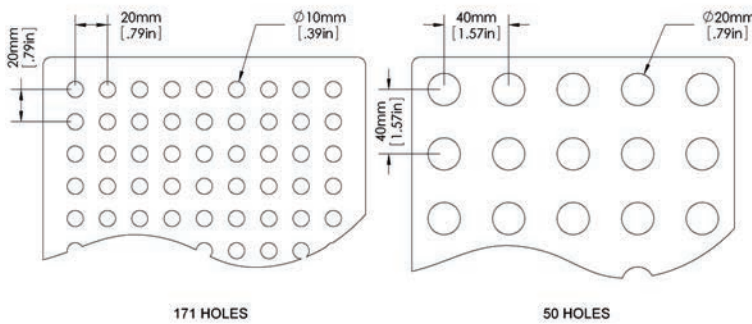
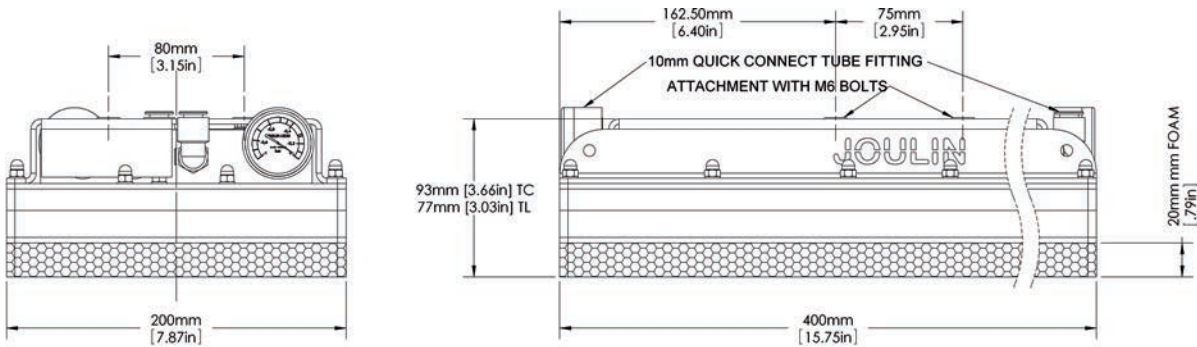
				Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
PP-PG120x400P20-2STX2	3.5(7.42)	6.6(13.98)	2.5(5.15)	PPF120.400-20	PPMD
PP-VG120x400P20-3STX2	3.5(7.42)	12(25.4)	3.55(7.83)	PPF120.400-20	PPMD
PP-PG120x400P40-2ST	1.75(3.71)	3.3(6.99)	2.5(5.15)	PPF120.400-40	PPMD
PP-VG120x400P40-3ST	1.75(3.71)	6(12.7)	3.55(7.83)	PPF120.400-40	PPMD

specifications are subject to change

PLUG&PICK

Foam Vacuum Gripper

PP200 x 400



Feed pressure: 6 bars - 87 psi		Holding Force N(Lbs)*		
		20% Vacuum	40% Vacuum	60% Vacuum
VG 200x400	Non-porous ...like steel	640(140.8)	1170(257.4)	1420(312.4)
	Semi-porous ...like wood	360(79.2)	500(110)	650(143)
	Porous ...like cardboard	300(66)	490(107.8)	650(143)
PG 200x400	Non-porous ...like steel	630(138.6)	1170(257.4)	1420(312.4)
	Semi-porous ...like wood	360(79.2)	500(110)	650(143)
	Porous ...like cardboard	300(66)	433(94.6)	470(103.4)

80% coverage is recommended for PG Grippers - *fully covered, safety factor 1.5 already applied

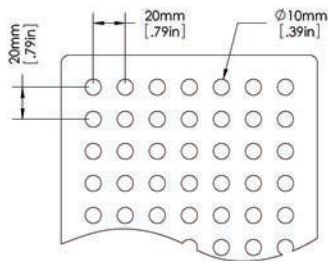
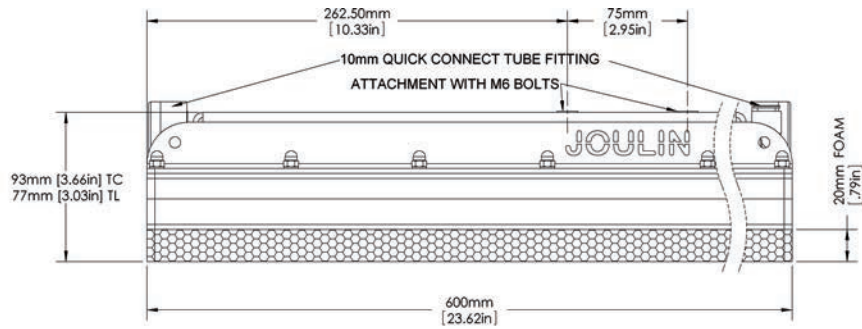
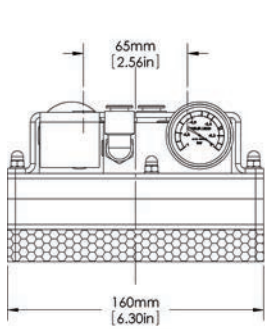
	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
PP-PG200x400P20-2STX4	7(14.84)	13.2(27.96)	3.9(8.6)	PPF200.400-20	2 x PPMD
PP-VG200x400P20-3STX4	7(14.84)	24(50.8)	6.15(13.56)	PPF200.400-20	2 x PPMD
PP-PG200x400P40-2STX2	3.5(7.42)	6.6(13.98)	3.9(8.6)	PPF200.400-40	2 x PPMD
PP-VG200x400P40-3STX2	3.5(7.42)	12(25.4)	6.15(13.56)	PPF200.400-40	2 x PPMD

specifications are subject to change

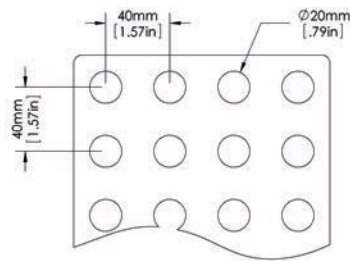
PLUG & PICK

Foam Vacuum Gripper

PP160 x 600

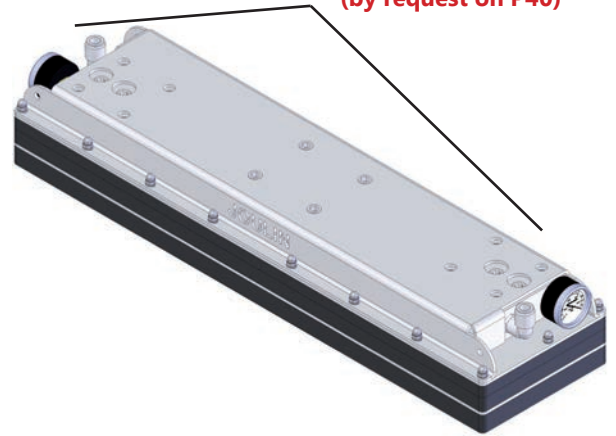


203 HOLES



60 HOLES

2 independent zones on Gripper are standard (by request on P40)



Feed pressure: 6 bars - 87 psi		Holding Force N(Lbs)*		
		20% Vacuum	40% Vacuum	60% Vacuum
VG 160x600	Non-porous ...like steel	768(168.9)	1404(308.8)	1704(374.8)
	Semi-porous ...like wood	432(95)	600(132)	780(171.6)
	Porous ...like cardboard	360(79)	588(129)	780(171.6)
PG 160x600	Non-porous ...like steel	756(166.3)	1404(308.8)	1704(374.8)
	Semi-porous ...like wood	518(114)	600(132)	780(171.6)
	Porous ...like cardboard	432(95)	516(113.5)	564(124)

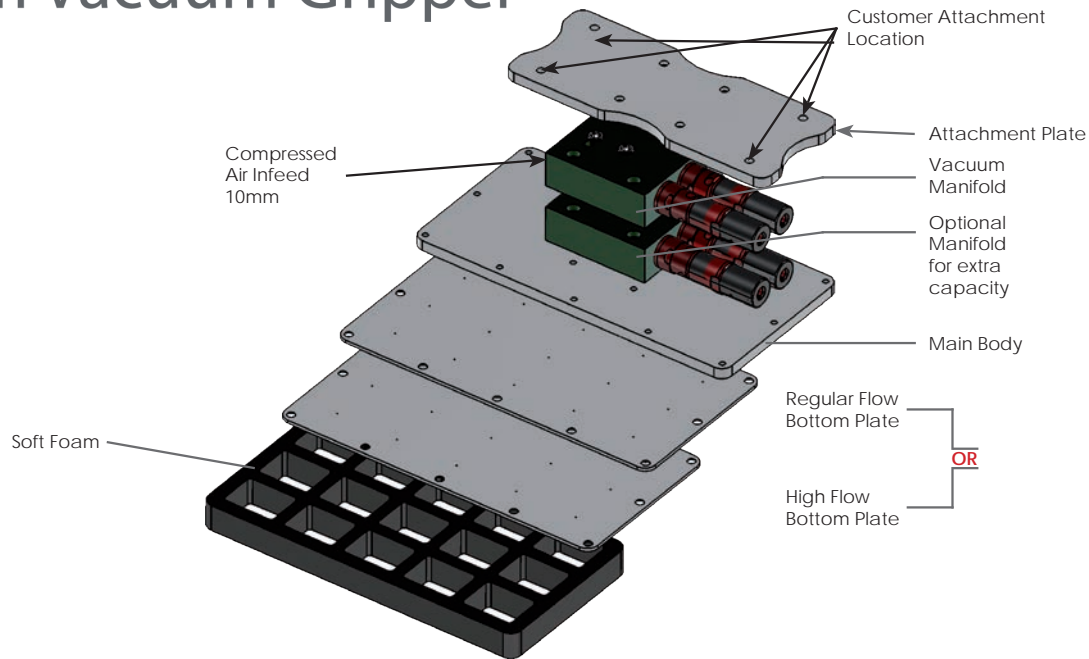
80% coverage is recommended for PG Grippers - *fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
PP-PG160x600P20-2STX4	7(14.84)	13.2(27.96)	4.6(10.14)	PPF160.600-20	2 x PPMD
PP-VG160x600P20-3STX4	7(14.84)	24(50.8)	7.2(15.87)	PPF160.600-20	2 x PPMD
PP-PG160x600P40-2STX2	3.5(7.42)	6.6(13.98)	4.6(10.4)	PPF160.600-40	2 x PPMD
PP-VG160x600P40-3STX2	3.5(7.42)	12(25.4)	7.2(15.87)	PPF160.600-40	2 x PPMD

specifications are subject to change

VALUEGRIPPER

Foam Vacuum Gripper



VL-

Range of the gripper

PG

Technology :
- PG = Port Gripper

100x250

Dimensions :
- 100x250 mm
- 150x300 mm
- 200x350 mm
- 250x400 mm

-REG

Flow :
- REG = Regular
- HG = High

-2STX2

Integrated Vacuum Source :
- 1ST
- 2ST
- PLUG
- HB = Hose Barb
- XB = External Barb

concept

- Twisted and uneven products
- Very economical compared with all other tools
- Vacuum source included (ejectors)
- 80% minimum coverage*

benefits

- Ready to install (self-contained)
- Quick pick and release
- Simple to use
- Low maintenance
- Tilt from horizontal to vertical

easy to customize

- Easy and inexpensive to manufacture to fit your needs
- Zoning possible
- Lifting power easy to adjust by foam and ejector choice
- Number and size of the foam openings upon adjustable request

* depends on products

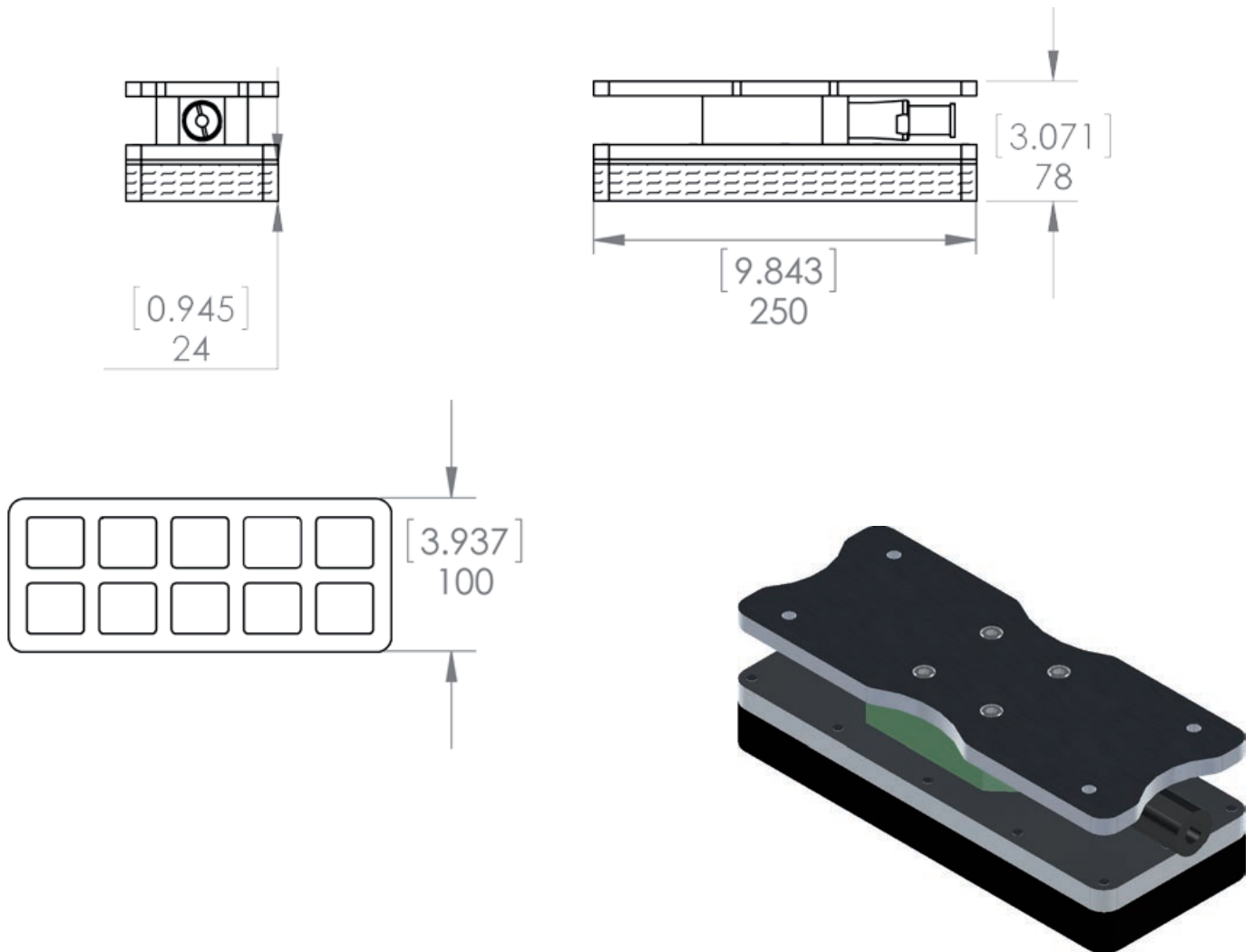
Click here or flash this code to see the video !



VALUEGRIPPER

100 x 250

Foam Vacuum Gripper



	Holding Force N(Lbs)*		
	20% Vacuum	40% Vacuum	60% Vacuum
Non-porous ...like steel	141(31.09)	288(63.49)	431(95.02)
Semi-porous ...like wood	137(30.2)	261(57.54)	385(84.88)
Porous ...like cardboard	96(21.16)	155(34.17)	219(48.28)

80% coverage is recommended for PG Grippers - *fully covered, safety factor 1.5 already applied

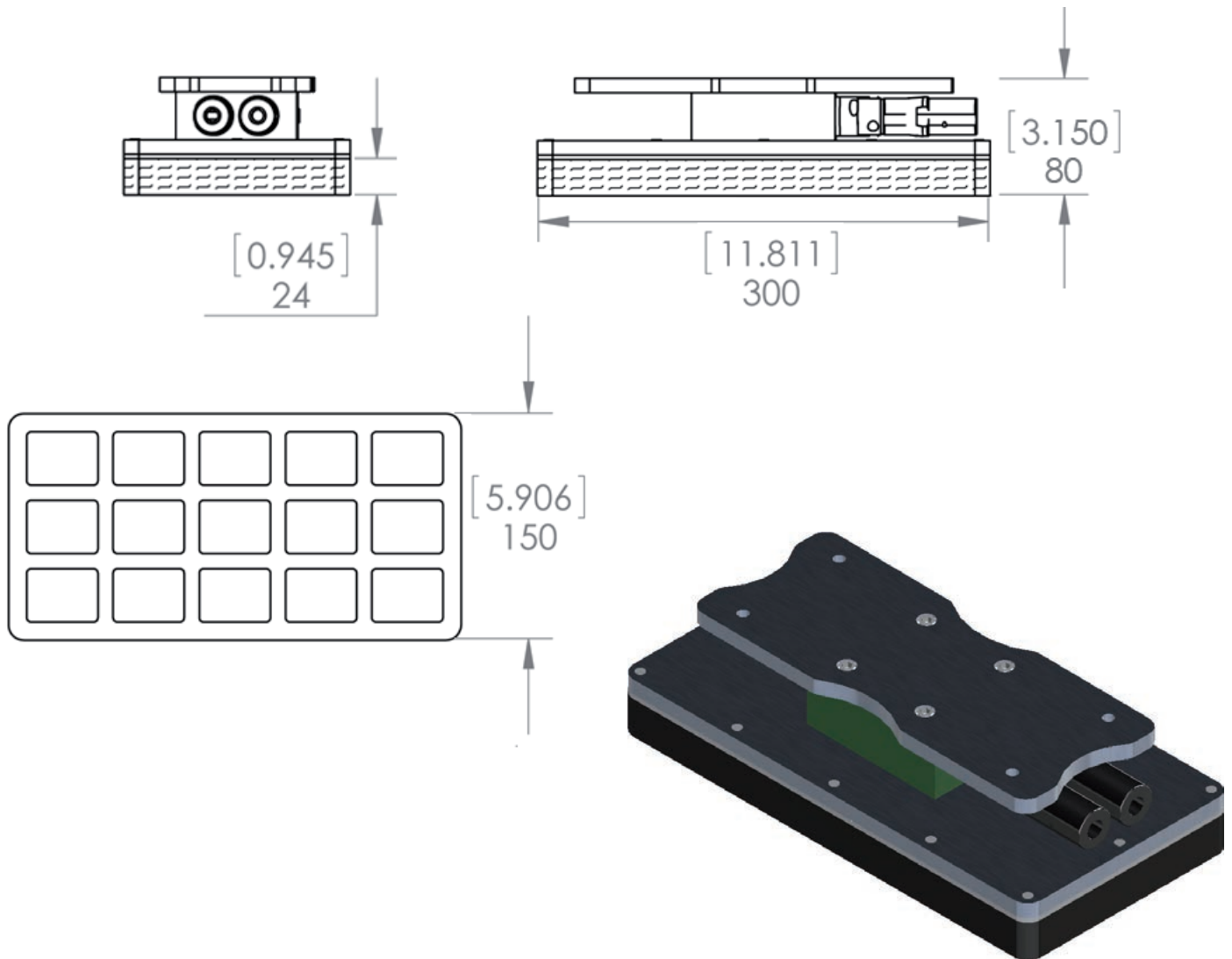
	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
VL-PG100x250-REG-1ST	1.75(3.71)	3.3(6.99)	1.55(3.42)	PGF100.250	PPMS

specifications are subject to change

VALUEGRIPPER

150 x 300

Foam Vacuum Gripper



	Holding Force N(Lbs)*		
	20% Vacuum	40% Vacuum	60% Vacuum
Non-porous ...like steel	293(64.6)	597(131.62)	894(197.09)
Semi-porous ...like wood	283(62.39)	589(129.85)	872(192.24)
Porous ...like cardboard	199(43.87)	321(70.77)	442(97.44)

80% coverage is recommended for PG Grippers - *fully covered, safety factor 1.5 already applied

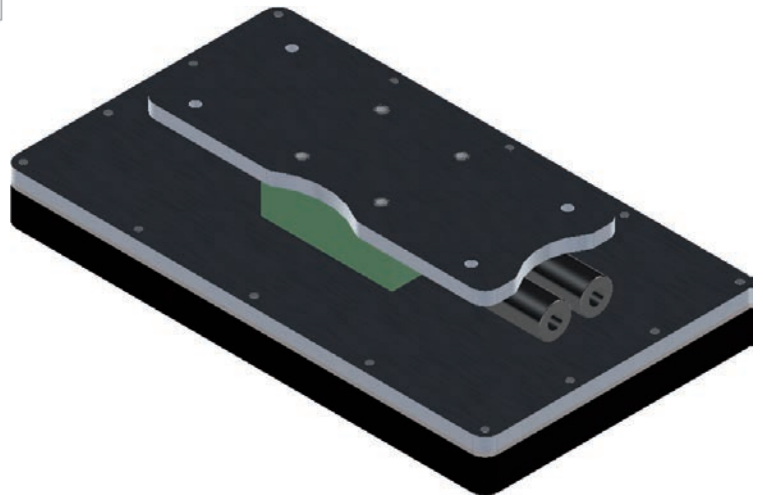
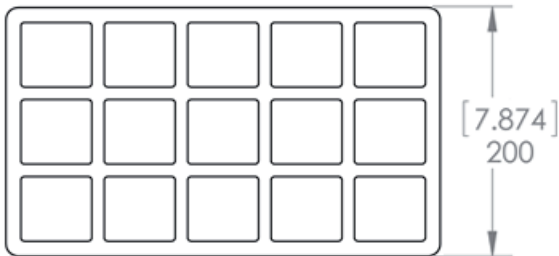
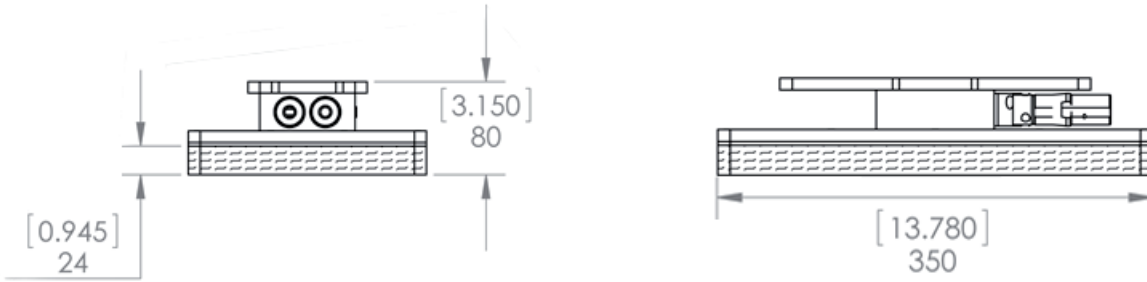
	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
VL-PG150X300-REG-1STX2	3.5(7.42)	6.6(13.98)	3.2(7.05)	PGF150.300	PPMD
VL-PG150x300-REG-1STX3	5.25(11.1)	9.9(20.97)	4.2(9.25)	PGF150.300	2 x PPMD
VL-PG150x300-REG-1STX4	7(14.84)	13.2(27.96)	4.2(9.25)	PGF150.300	2 x PPMD

specifications are subject to change

VALUEGRIPPER

200 x 350

Foam Vacuum Gripper



	Holding Force N(Lbs)*		
	20% Vacuum	40% Vacuum	60% Vacuum
Non-porous ...like steel	597(131.62)	1289(284.18)	1785(393.52)
Semi-porous ...like wood	504(111.11)	1146(252.65)	1729(381.18)
Porous ...like cardboard	382(84.22)	631(139.11)	685(151.02)

80% coverage is recommended for PG Grippers - *fully covered, safety factor 1.5 already applied

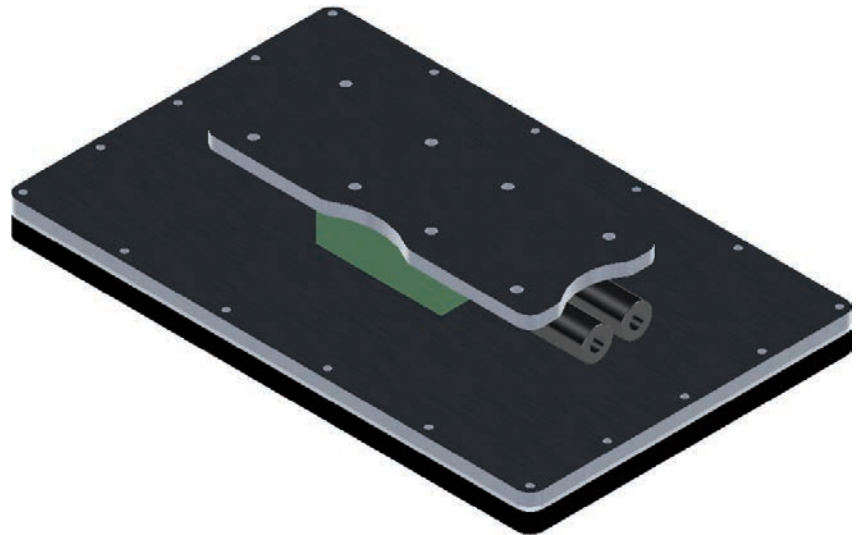
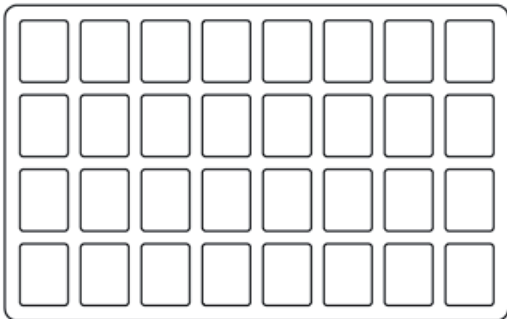
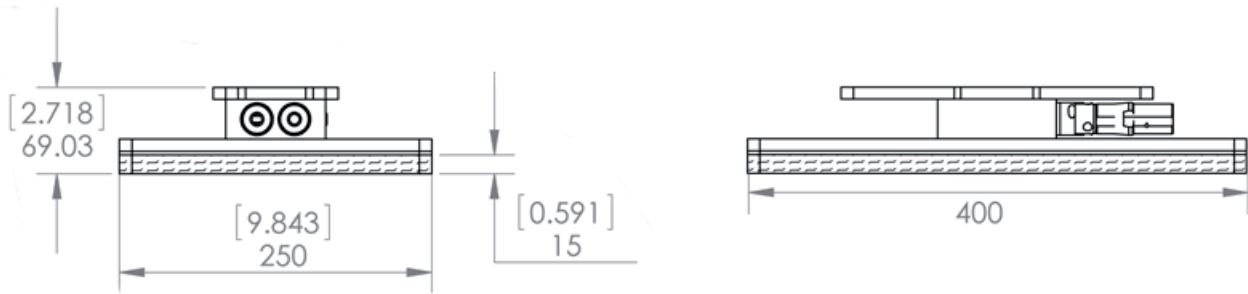
	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
VL-PG200x350-REG-1STX2	3.5(7.42)	6.6(13.98)	4.65(10.25)	PGF200.350	PPMD2
VL-PG200x350-REG-1STX3	5.25(11.1)	9.9(20.97)	5.65(12.45)	PGF200.350	2 x PPMD
VL-PG200x350-REG-1STX4	7(14.84)	13.2(27.96)	5.65(12.45)	PGF200.350	2 x PPMD

specifications are subject to change

VALUEGRIPPER

250 x 400

Foam Vacuum Gripper



	Holding Force N(Lbs)*		
	20% Vacuum	40% Vacuum	60% Vacuum
Non-porous ...like steel	707(155.87)	1529(337.09)	2117(466.72)
Semi-porous ...like wood	598(131.83)	1470(324.08)	2035(448.64)
Porous ...like cardboard	453(99.87)	748(164.9)	812(179.02)

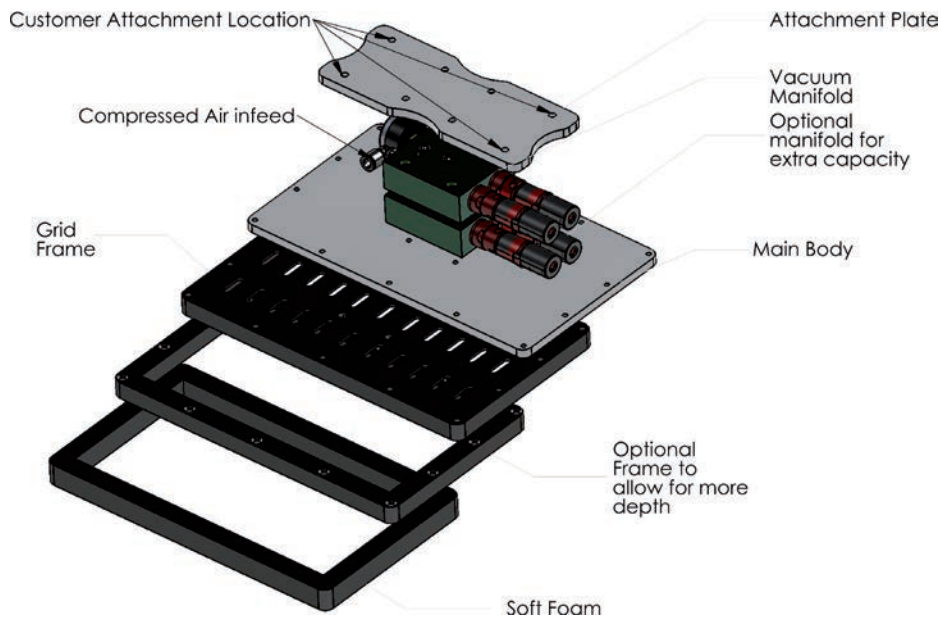
80% coverage is recommended for PG Grippers - *fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
VL-PG250x400-REG-1STX2	3.5(7.42)	6.6(13.98)	4.65(10.25)	PGF250.400	PPMD
VL-PG250x400-REG-1STX3	5.25(11.1)	9.9(20.97)	5.65(12.45)	PGF250.400	2 x PPMD
VL-PG250x400-REG-1STX4	7(14.84)	13.2(27.96)	5.65(12.45)	PGF250.400	2 x PPMD

specifications are subject to change

BAGHANDLER

Foam Vacuum Gripper



- | | | | |
|----------------------|---|---|--|
| BG- | 100x250 | -AF | -2STX2 |
| Range of the gripper | Dimensions :
- R150 mm
- 100x250 mm
- 150x300 mm
- 200x350 mm
- 250x400 mm
- 300x500 mm
- 400x600 mm | Frame :
- NF = with Normal Frame
- AF = with Additional Frame | Integrated Vacuum Source :
- 1ST
- 2ST
- PLUG
- HB = Hose Barb
- XB = External Barb |

concept

- Pick up bags or other shrink wrapped products
- Can be used for other type of single products covering the full gripper
- Thick foam rim compensates with shape of products

benefits

- Ready to use (vacuum source included)
- Foam rim easy to change
- Multi-zone operated automatically via check valves*

easy to customize

- Sized to fit your bags
- Depth of the chamber adjustable
- Blowers to increase flow for porous products

* Optional if different sizes need to be handled

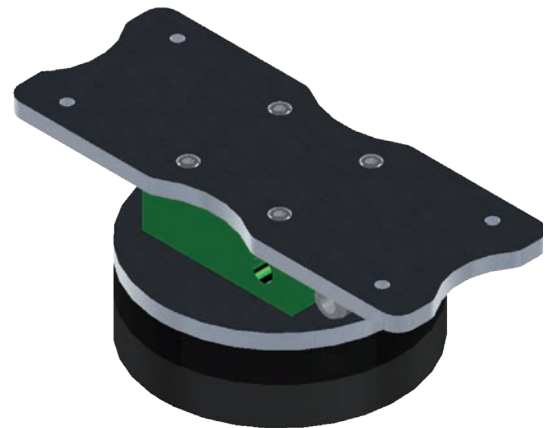
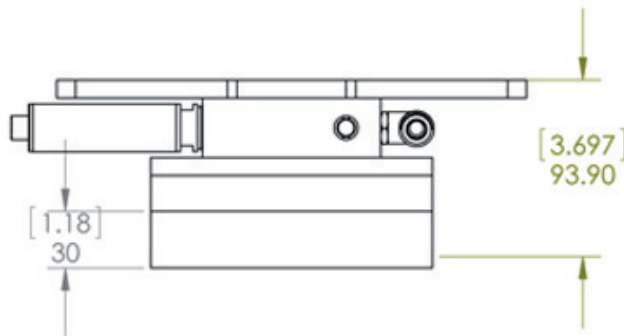
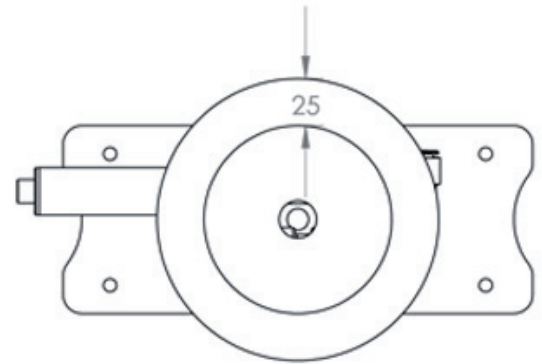
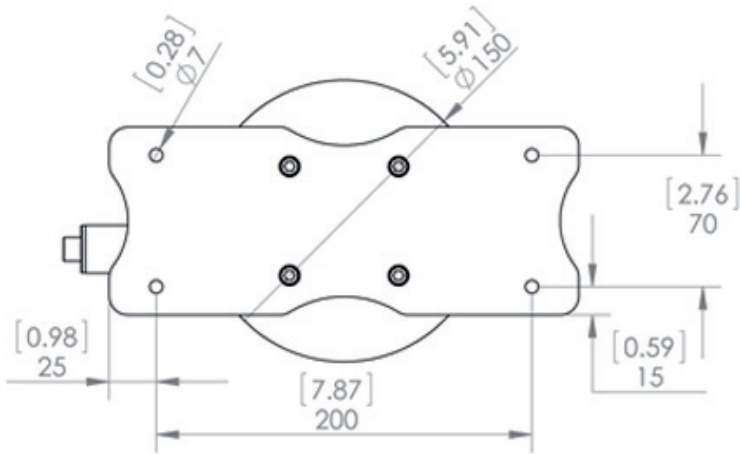
Click here or flash this code to see the video !



BAGHANDLER

R 150

Foam Vacuum Gripper



	Holding Force N(Lbs) - 60% vacuum*
	60% Vacuum
Non-porous ...like steel	195(42.9)
Semi-porous ...like wood	117(25.8)
Porous ...like cardboard	49(10.7)

*fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
BG-R150-NF-1ST	1.75(3.71)	3.3(6.99)	1.2(2.65)	BGF150	PPMS

Options :

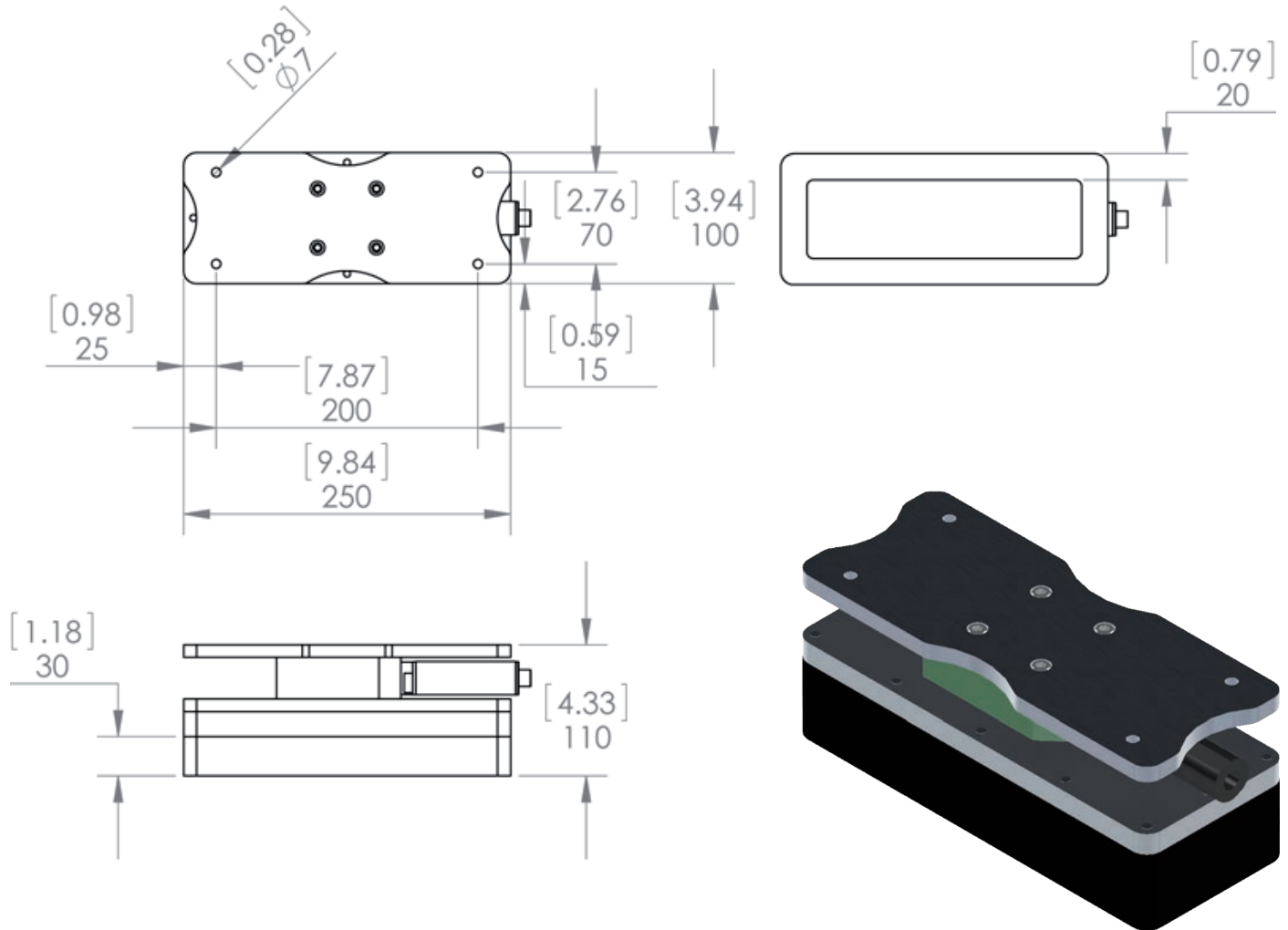
- Multi-zone for different sizes products
- Blowers for high flow requirements (soft and porous products)
- Custom designs

specifications are subject to change

BAGHANDLER

Foam Vacuum Gripper

100 x 250



	Holding Force N(Lbs) - 60% vacuum*
	60% Vacuum
Non-porous ...like steel	277(61)
Semi-porous ...like wood	166(36.6)
Porous ...like cardboard	69(15.2)

*fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/ sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
BG-100x250-NF-1ST	1.75(3.71)	3.3(6.99)	1.5(3.3)	BGF100.250	PPMS

Options :

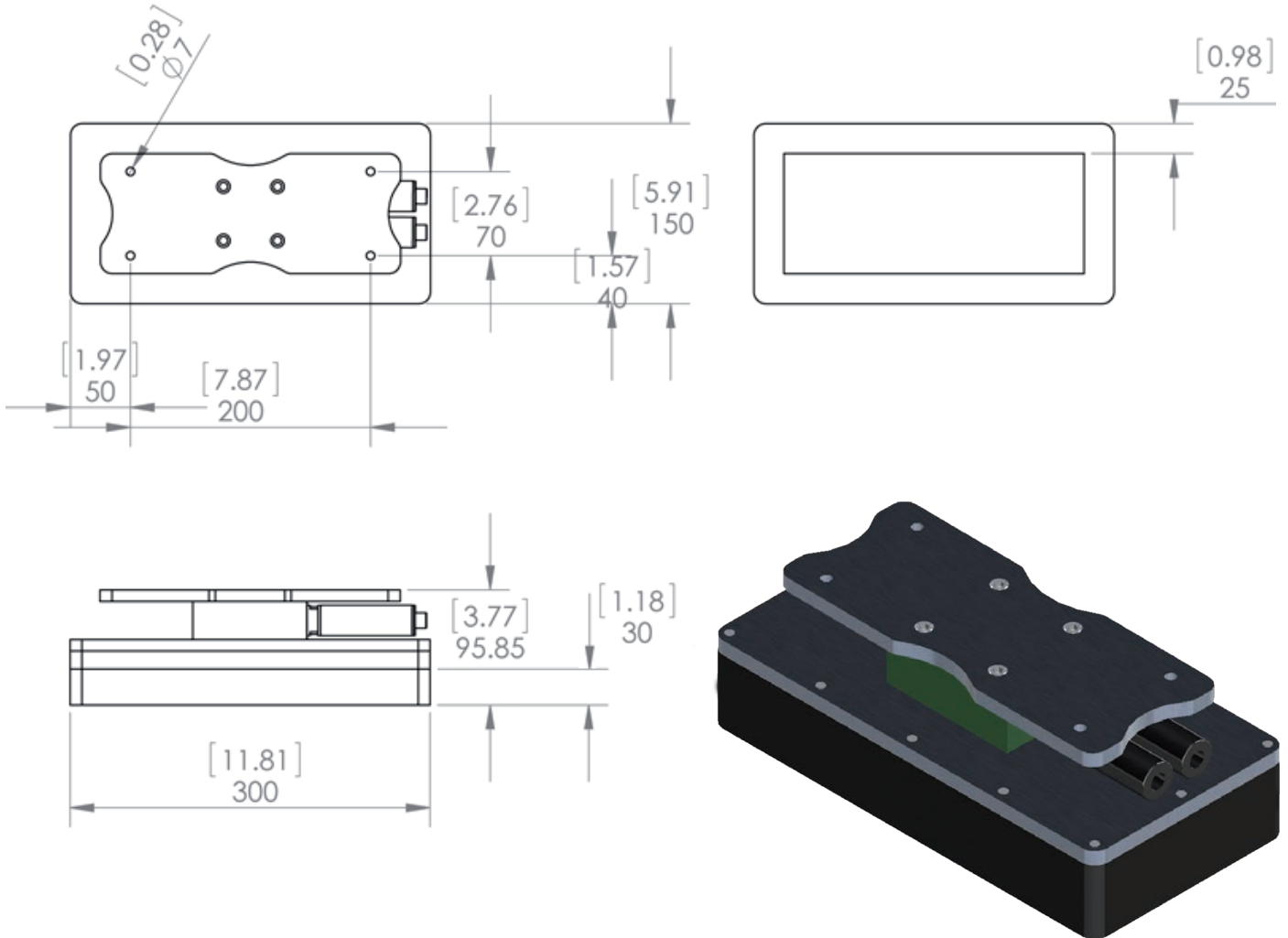
- Multi-zone for different sizes products
- Blowers for high flow requirements (soft and porous products)
- Custom designs

specifications are subject to change

BAGHANDLER

Foam Vacuum Gripper

150 x 300



	Holding Force N(Lbs) - 60% vacuum*
	60% Vacuum
Non-porous ...like steel	500(110.1)
Semi-porous ...like wood	300(66)
Porous ...like cardboard	125(27.5)

*fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
BG-150x300-NF-1STX2	3.5(7.42)	6.6(13.98)	2.5(5.51)	BGF150.300	PPMD

Options :

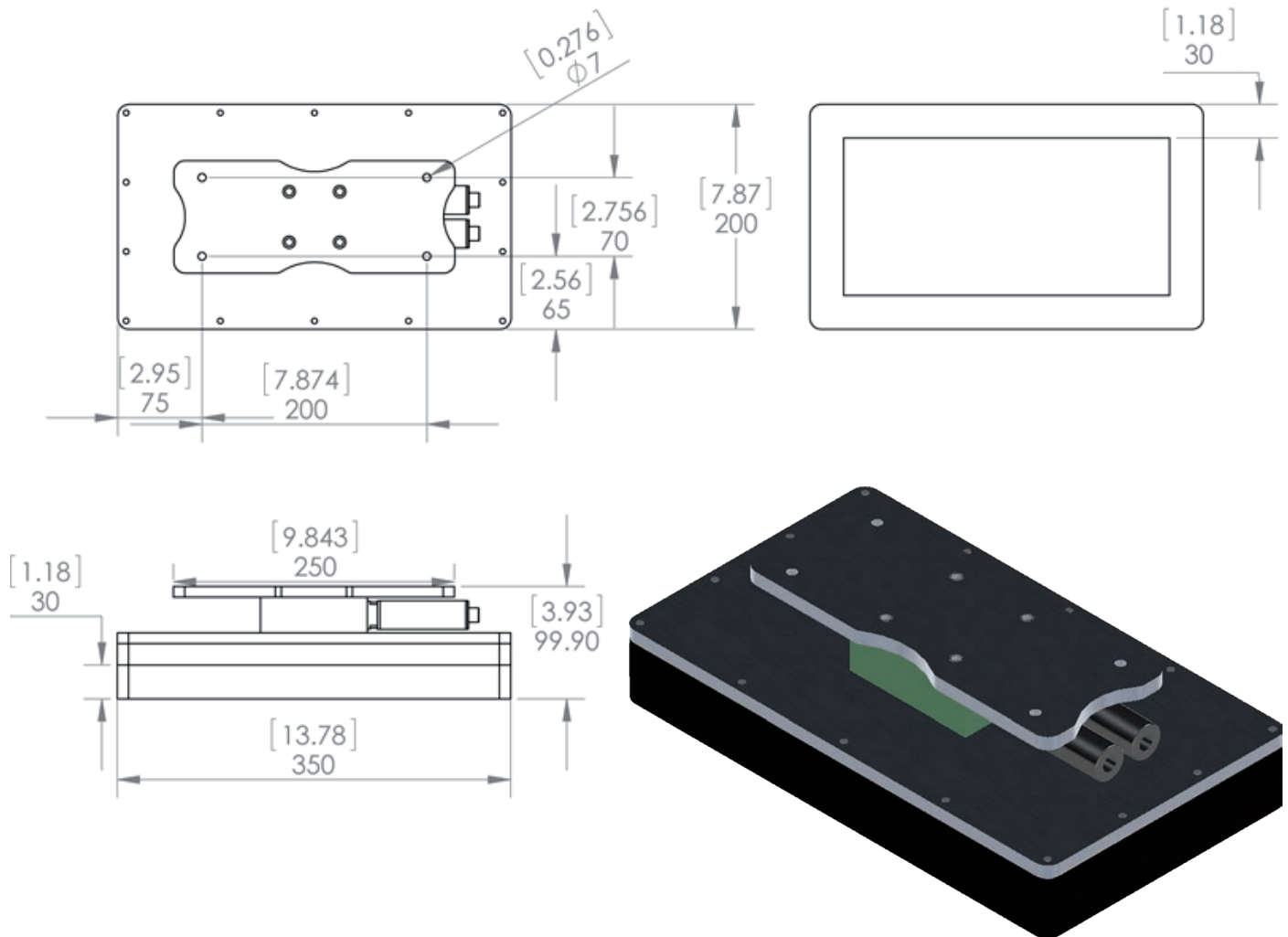
- Multi-zone for different sizes products
- Blowers for high flow requirements (soft and porous products)
- Custom designs

specifications are subject to change

BAGHANDLER

Foam Vacuum Gripper

200 x 350



	Holding Force N(Lbs) - 60% vacuum*
	60% Vacuum
Non-porous ...like steel	777(171.1)
Semi-porous ...like wood	466(102.6)
Porous ...like cardboard	194(42.7)

*fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
BG-200x350-NF-1STX2	3.5(7.42)	6.6(13.98)	3.5(7.72)	BGF200.350	PPMD

Options :

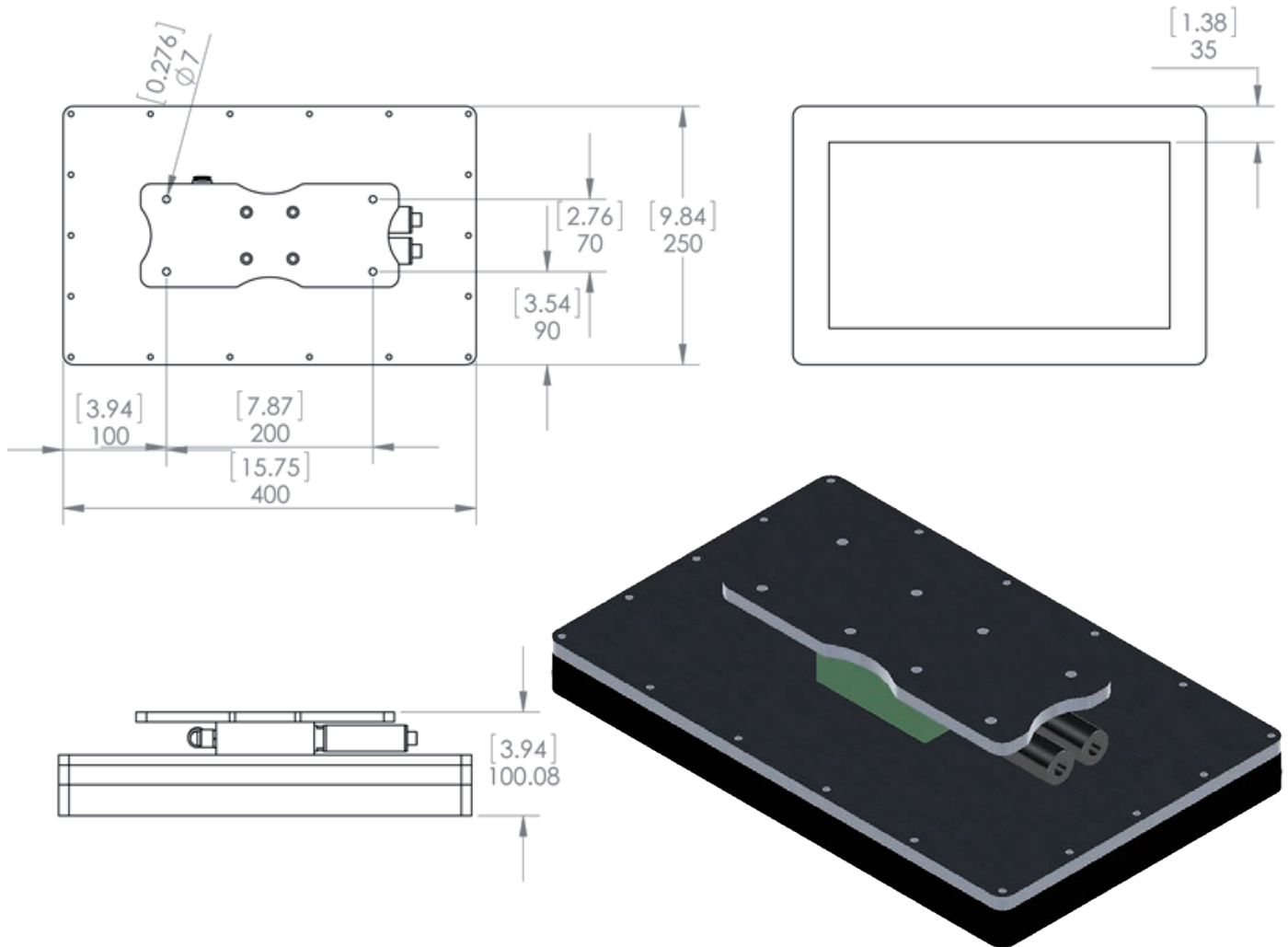
- Multi-zone for different sizes products
- Blowers for high flow requirements (soft and porous products)
- Custom designs

specifications are subject to change

BAGHANDLER

Foam Vacuum Gripper

250 x 400



	Holding Force N(Lbs) - 60% vacuum*
	60% Vacuum
Non-porous ...like steel	1111(244.7)
Semi-porous ...like wood	666(146.7)
Porous ...like cardboard	277(61)

*fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
BG-250x400-NF-1STX2	3.5(7.42)	6.6(13.98)	4.7(10.36)	BGF250.400	PPMD

Options :

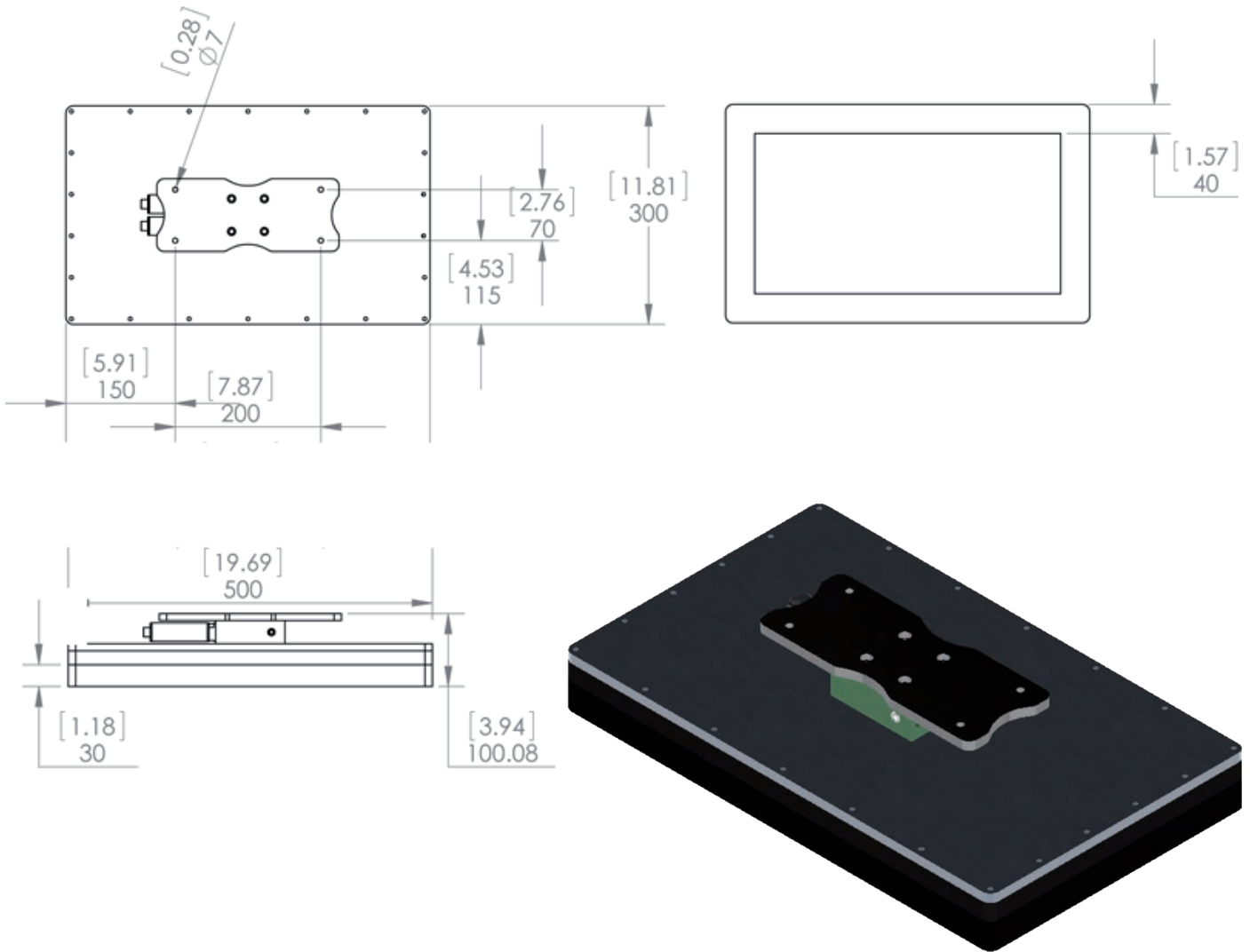
- Multi-zone for different sizes products
- Blowers for high flow requirements (soft and porous products)
- Custom designs

specifications are subject to change

BAGHANDLER

300 x 500

Foam Vacuum Gripper



	Holding Force N(Lbs) - 60% vacuum*
	60% Vacuum
Non-porous ...like steel	1666(366.9)
Semi-porous ...like wood	1000(220.2)
Porous ...like cardboard	416(91.6)

*fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
BG-300x500-NF-1STX2	3.5(7.42)	6.6(13.98)	6.7(14.77)	BGF300.500	PPMD
BG-300x500-NF-1STX4	7(14.84)	13.2(27.96)	7.2(15.87)	BGF300.500	2 x PPMD

Options :

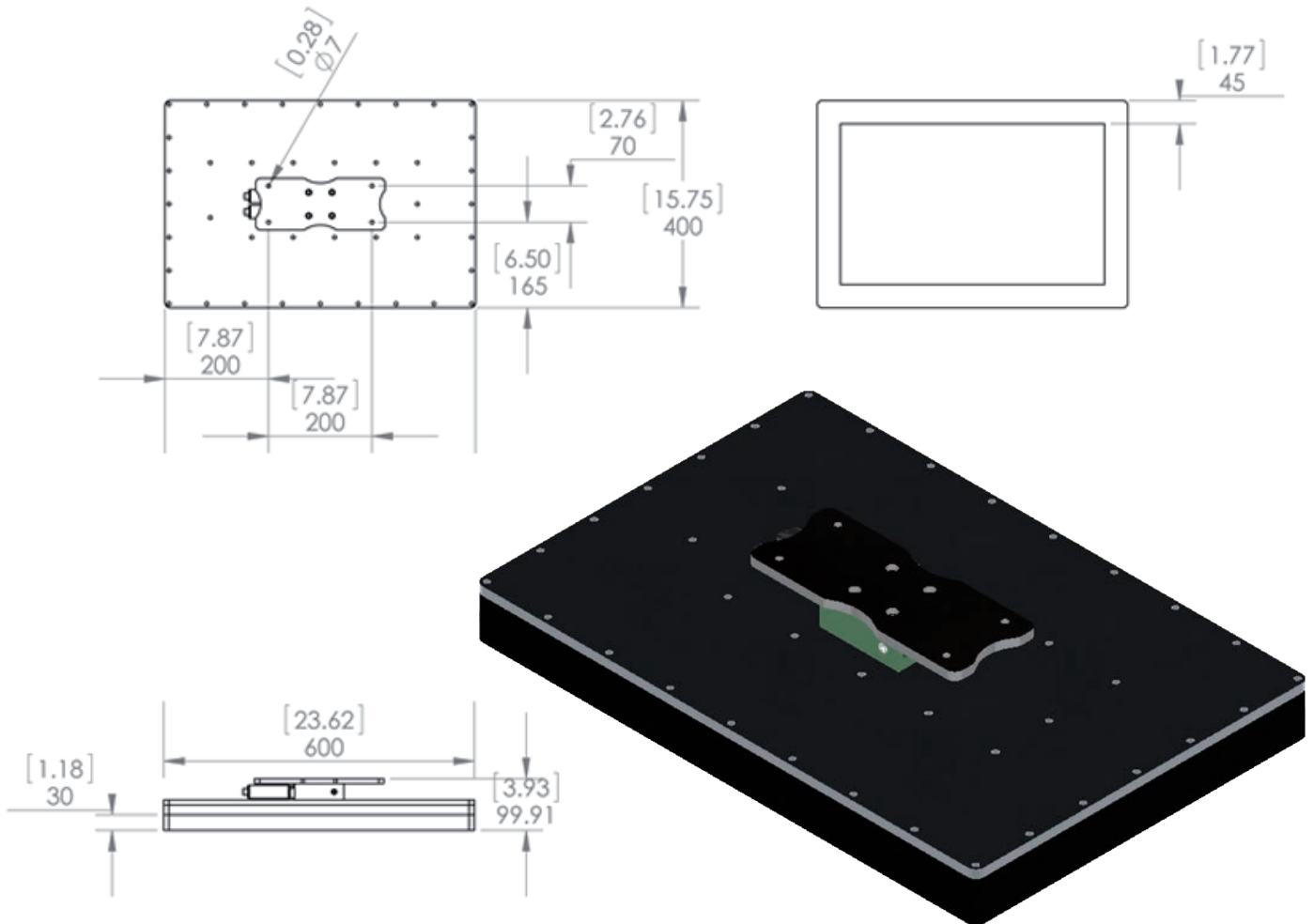
- Multi-zone for different sizes products
- Blowers for high flow requirements (soft and porous products)
- Custom designs

specifications are subject to change

BAGHANDLER

Foam Vacuum Gripper

400 x 600



	Holding Force N(Lbs) - 60% vacuum*
	60% Vacuum
Non-porous ...like steel	2666(587.2)
Semi-porous ...like wood	1600(352.4)
Porous ...like cardboard	666(146.7)

*fully covered, safety factor 1.5 already applied

	Technical Data			Replaceable Parts	
	Air Consumption NI/sec(scfm)	Max Flow NI/sec(scfm)	Weight Kg(Lbs)	Foam Pad	Vacuum Generator
BG-400x600-NF-1STX2	3.5(7.42)	6.6(13.98)	10.2(22.49)	BGF400.600	PPMD
BG-400x600-NF-1STX4	7(14.84)	13.2(27.96)	10.8(23.81)	BGF400.600	2 x PPMD

Options :

- Multi-zone for different sizes products
- Blowers for high flow requirements (soft and porous products)
- Custom designs

specifications are subject to change

PALLETIZER PRO

Foam Vacuum Gripper



PA-

Range
of the gripper

VG

Technology :

- VG = Valve Gripper
- PG = Port Gripper
- FV = Foam Valves

600x400

Dimensions :

- 600x400 mm
- 1300x260 mm
- 1300x500 mm
- 1300x900 mm
- 1300x1100 mm

-P20

Pitch :

- P15 = 15 mm
- P20 = 20 mm
- P28 = 28 mm
- P40 = 40 mm

concept

- Pick up all products (open top, shrink wrap, etc...)
- Gripping power remains constant whether single parts or entire layer
- Same tool for all products (slip sheets and pallets as well)
- Different foam patterns to fit your applications
- Uneven surfaces

benefits

- Saving up to 50% with the «Wave System»™ (internal closing valve)
- Low maintenance
- Not sensitive to dust
- No filter
- Adjustable internal components

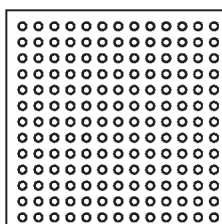
easy to customize

- Easy and inexpensive to manufacture to fit your sizes
- Zoning possible
- Adjustable lifting capacity with different check valves
- Robot attachment and other options available
- Quick delivery time

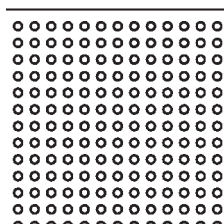
PALLETIZER PRO

Foam Vacuum Gripper

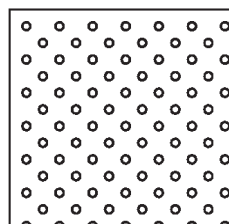
Sized with Griptech™ technology



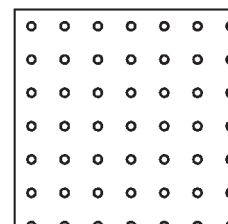
P15



P20



P28



P40

The foam pad molds to the shape of the product to be picked up. The surface of the product can be flat, rounded, twisted or the texture can be rough, porous, molded or even open from the top...

It's not a problem !

Strong full surface rigid support is distributed evenly allowing products to be moved at high acceleration rates !

	Minimum Width mm(in)
P15	30 (1.18)
P20	35(1.38)
P28	40(1.57)
P40	55(2.17)

PowerGrip™ :

For some applications where higher lifting force is required, it's possible to increase the size of the holes in the foam and change internal adjustment to get a stronger gripping capacity

Options :

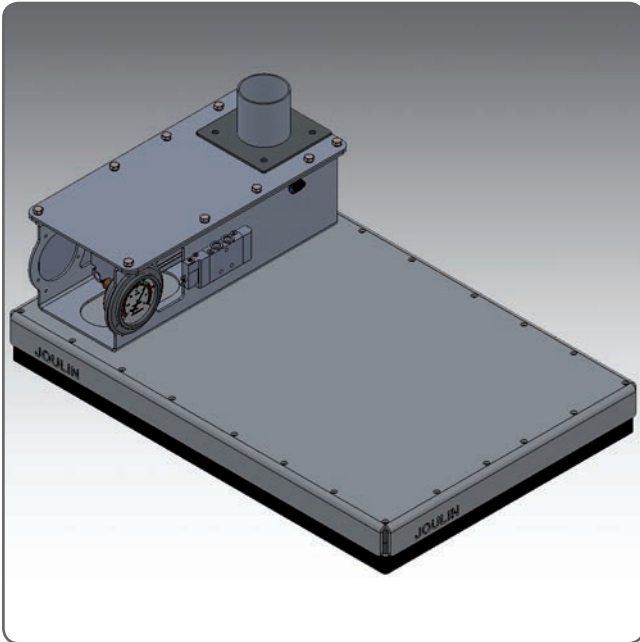
- PG version available (metered port)
- Blow off
- Flow reverser for quick release (light products suches sleep sheets)
- Blow off (light products such as sleep sheets)
- Flat, raised or flexible attachments (see page 69 for more information)
- Venturi (ejectors)
- Patented foam valve to pick up all open top containers , jars, glass, etc...



PALLETIZER PRO

Foam Vacuum Gripper

600 x 400

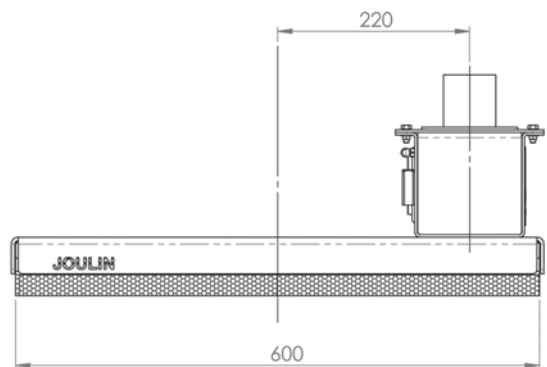
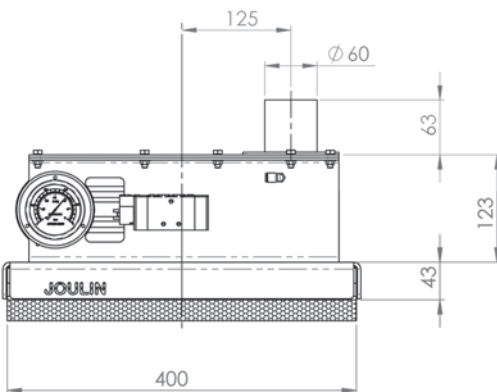
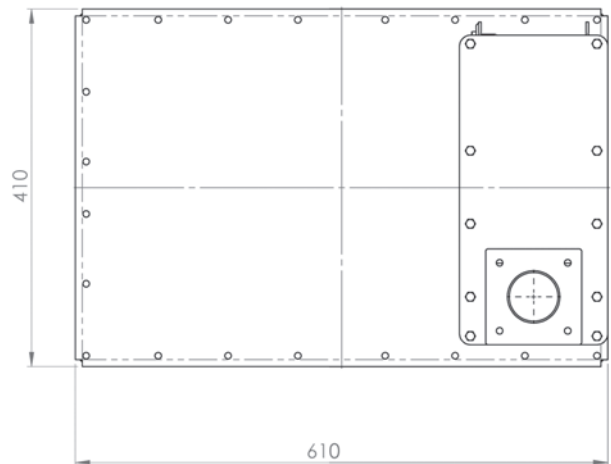


This gripper includes :

- PowerGrip™
- Wave System™
- Griptech™

Available :

- Zoning
- Rotating connection
- Blow off



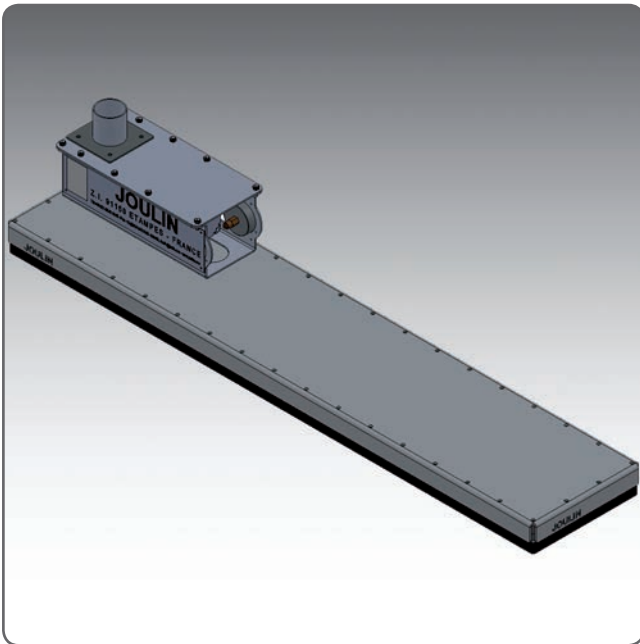
	Weight kg (Lbs)	Power needed kw (HP)	Valves	Foam Pad
PA-VG600x400-P20	12(26.44)	3.3 to 4.3 (5.1 to 6.4)	551	PAF600.400-20
PA-VG600x400-P28	12(26.44)	3.3 to 4.3 (5.1 to 6.4)	260	PAF600.400-28
PA-VG600x400-P40	12(26.44)	1.5 to 3.3 (2.35 to 5.1)	126	PAF600.400-40

specifications are subject to change

PALLETIZER PRO

Foam Vacuum Gripper

1300 x 260

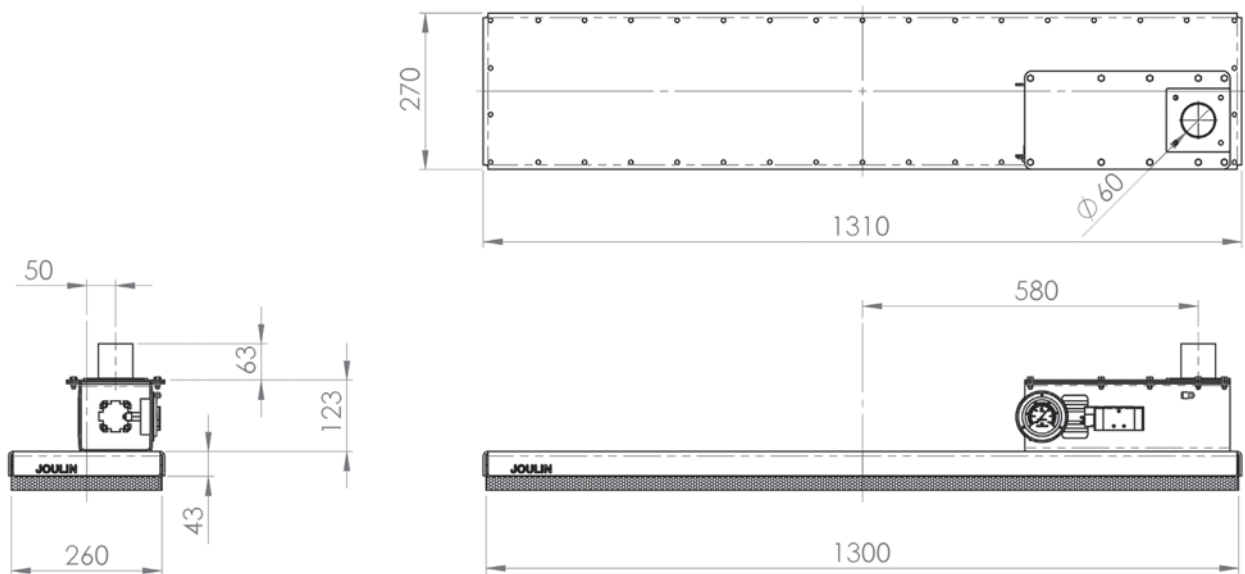


This gripper includes :

- PowerGrip™
- Wave System™
- Griptech™

Available :

- Zoning
- Rotating connection
- Blow off



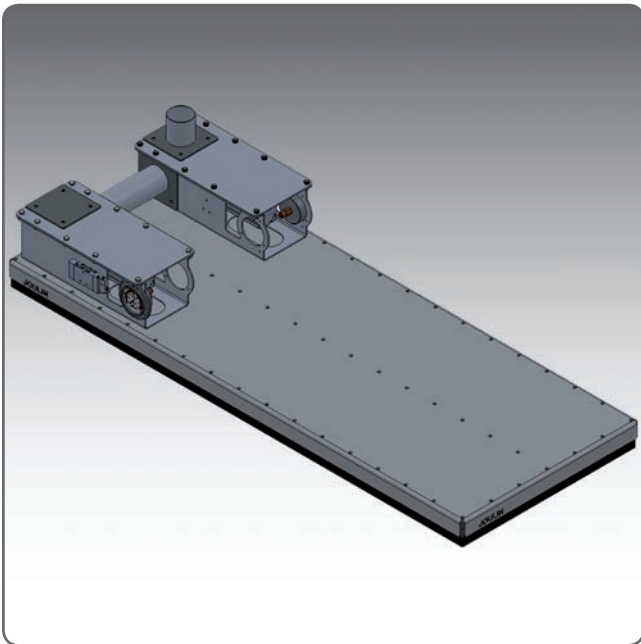
	Weight kg (Lbs)	Power needed kw (HP)	Valves	Foam Pad
PA-VG1300x260-P20	17(37.47)	4.3 to 7.5 (6.4 to 16.9)	768	PAF1300.260-20
PA-VG1300x260-P28	17(37.47)	3.3 to 4.3 (5.1 to 6.4)	360	PAF1300.260-28
PA-VG1300x260-P40	17(37.47)	1.5 to 3.3 (2.35 to 5.1)	192	PAF1300.260-40

specifications are subject to change

PALLETIZER PRO

Foam Vacuum Gripper

1300 x 500

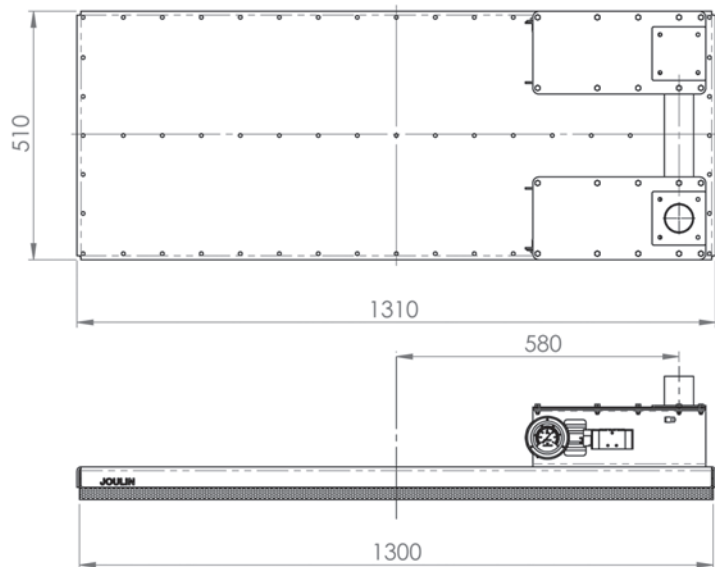
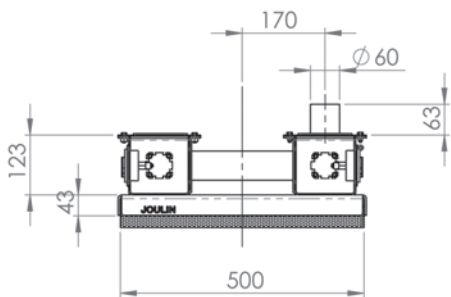


This gripper includes :

- PowerGrip™
- Wave System™
- Griptech™

Available :

- Zoning
- Rotating connection
- Blow off



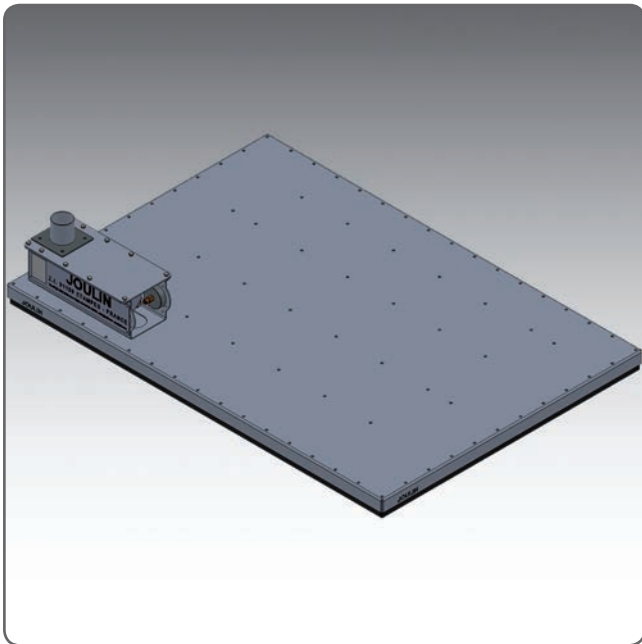
	Weight kg (Lbs)	Power needed kw (HP)	Valves	Foam Pad
PA-VG1300x500-P20	32(70.53)	4.3 to 7.5 (6.4 to 16.9)	1536	PAF1300.500-20
PA-VG1300x500-P28	32(70.53)	4.3 to 7.5 (6.4 to 16.9)	765	PAF1300.500-28
PA-VG1300x500-P40	32(70.53)	3.3 to 4.3 (5.1 to 6.4)	384	PAF1300.500-40

specifications are subject to change

PALLETIZER PRO

Foam Vacuum Gripper

1300 x 900

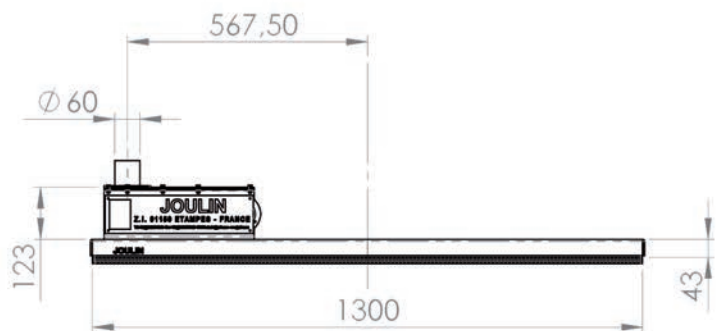
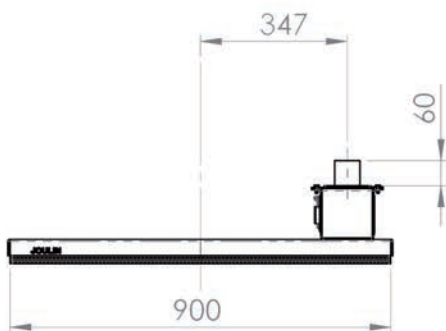
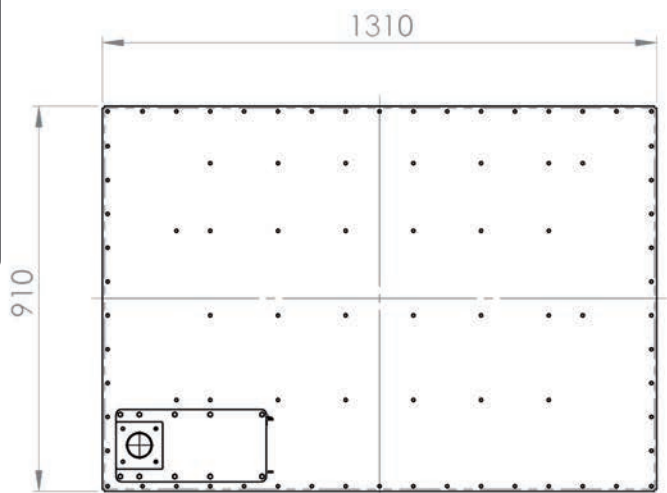


This gripper includes :

- PowerGrip™
- Wave System™
- Griptech™

Available :

- Zoning
- Rotating connection
- Blow off



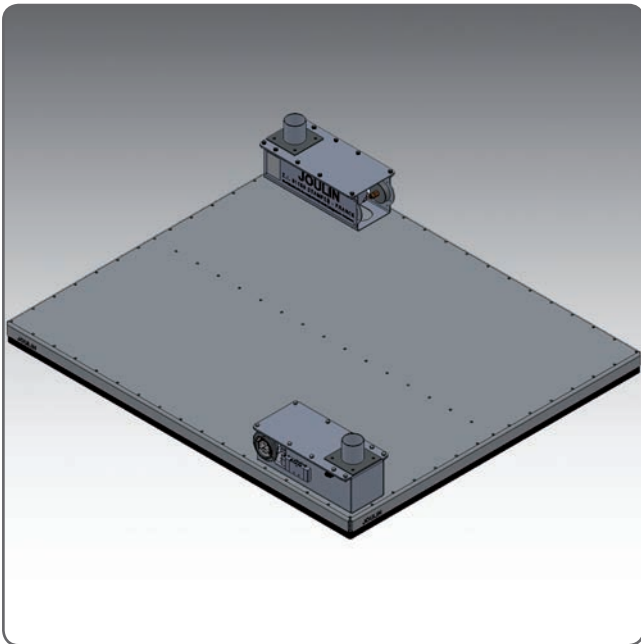
	Weight (kg)	Power needed (kw)	Valves	Foam Pad
PA-VG1300x900-P20	58(127.8)	7.5 to 18 (16.9 to 24.1)	2816	PAF1300.900-20
PA-VG1300x900-P28	58 (127.8)	4.3 to 7.5 (6.4 to 16.9)	1395	PAF1300.900-28
PA-VG1300x900-P40	58 (127.8)	4.3 to 7.5 (6.4 to 16.9)	704	PAF1300.900-40

specifications are subject to change

PALLETIZER PRO

Foam Vacuum Gripper

1300 x 1100

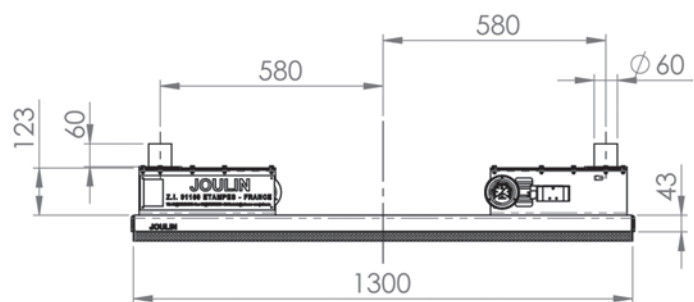
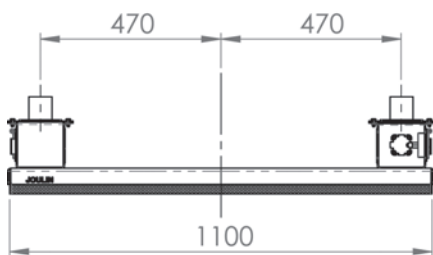
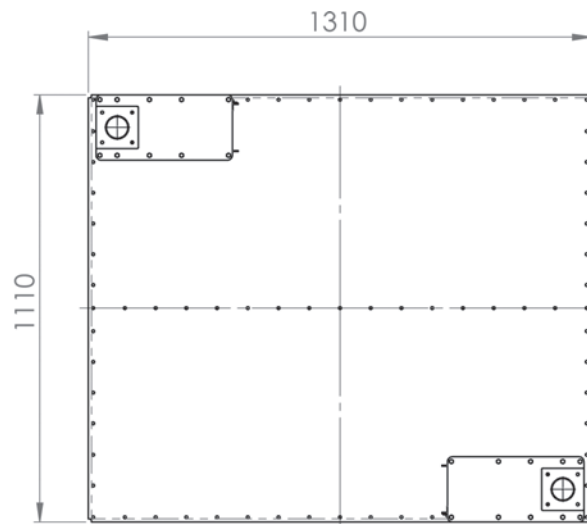


This gripper includes :

- PowerGrip™
- Wave System™
- Griptech™

Available :

- Zoning
- Rotating connection
- Blow off

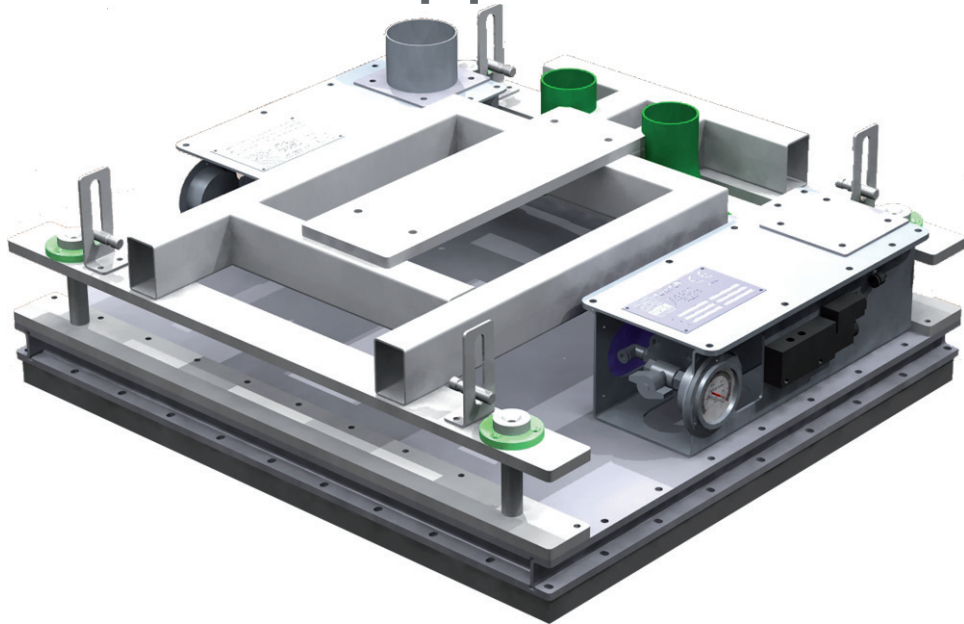


	Weight (kg)	Power needed (kw)	Valves	Foam Pad
PA-VG1300x1100-P20	72	7.5 to 18 (16.9 to 24.1)	3456	PAF1310.1110-20
PA-VG1300x1100-P28	72	7.5 to 11 (16.9)	1748	PAF1310.1110-28
PA-VG1300x1100-P40	72	4.3 to 7.5 (6.4 to 16.9)	864	PAF1310.1110-40

specifications are subject to change

CUSTOM GRIPPER

Foam Vacuum Gripper



CG-

Range
of the gripper :
- CG = Custom Gripper

VG

Technology :
- VG = Valve Gripper
- PG = Port Gripper
- FV = Foam Valves
- MX = Mixed

420x800

Dimensions :
- custom size

-P20

Pitch :
- custom pitch

-3STX2

Integrated
Vacuum Source*1 :
- 1ST
- 2ST
- 3ST
- *nothing*

concept

- Custom design to fit your specific application
- Pick up all products without adjustment
- Partner together for success of project
- Gripping power remains constant with single parts or entire layer

benefits

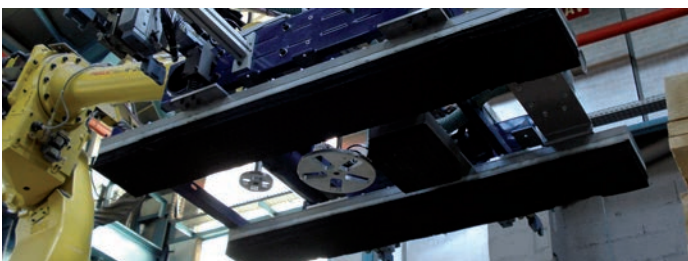
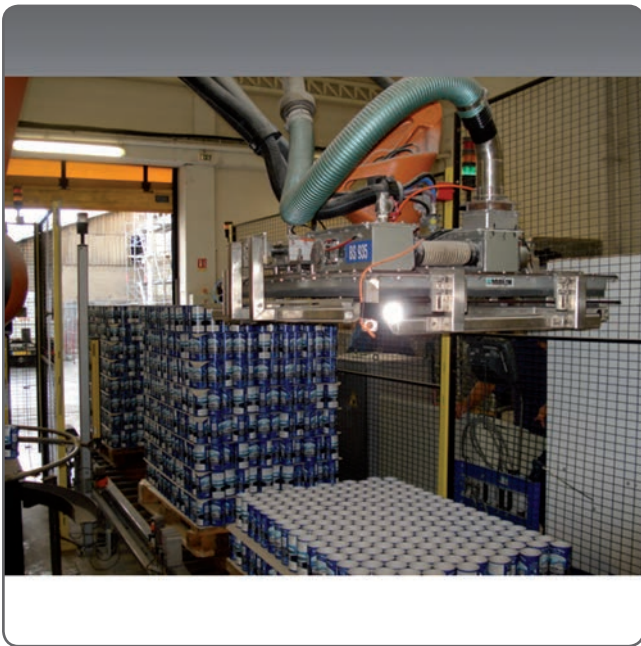
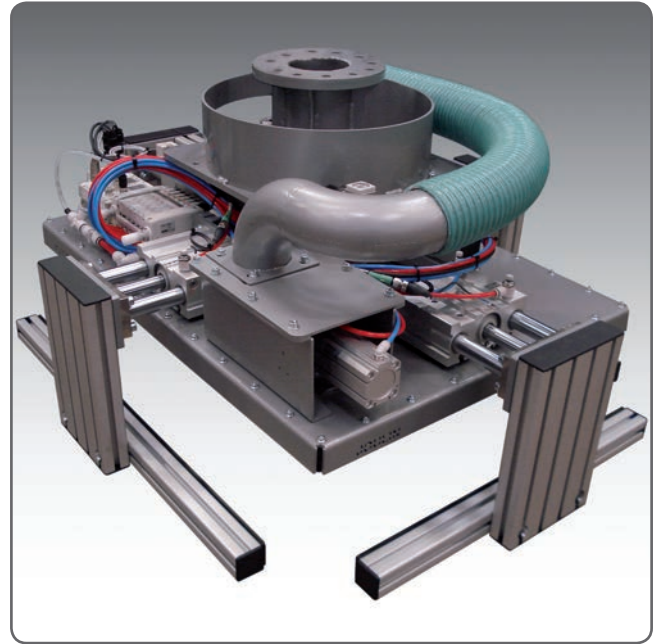
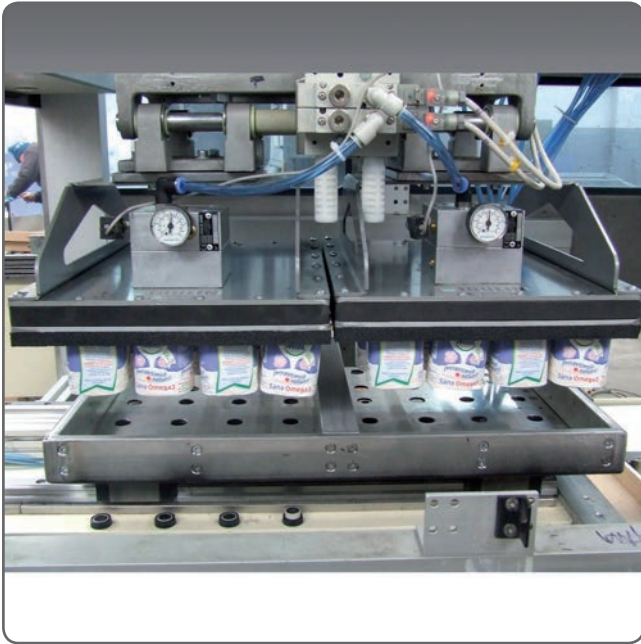
- In house testing and demo grippers available
- Complete function guarantee
- Get the benefit of 50 years experience in custom gripper
- Low maintenance
- Designed with Griptech™ and Wave System™

more options

- Robot attachments
- Side bolsters
- Wiring and field bus
- Installation and on-site start-up available

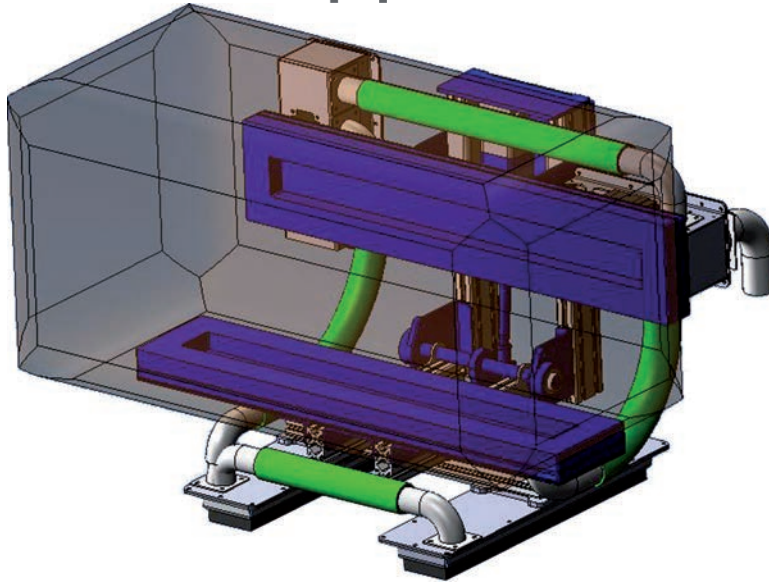
CUSTOM GRIPPER

Foam Vacuum Gripper



SPECIAL GRIPPER

Foam Vacuum Gripper


SG-

Range
of the gripper :
- SG = Special Gripper

VG

Technology :
- VG = Valve Gripper
- PG = Port Gripper
- FV = Foam Valves
- MX= Mixed

420x800

Dimensions :
- custom size

-P20

Pitch :
- custom pitch

-3STX2

Integrated
Vacuum Source*1 :
- 1ST
- 2ST
- 3ST
- *nothing*

concept

- When it's not possible to use our standard modules even by changing their dimensions, it's possible to design and manufacture a complete special gripper
- Gripper completely designed to your requirements
- Test and prototype in house with your products
- Most products can be handled with a custom Joulin gripper to fit your needs

benefits

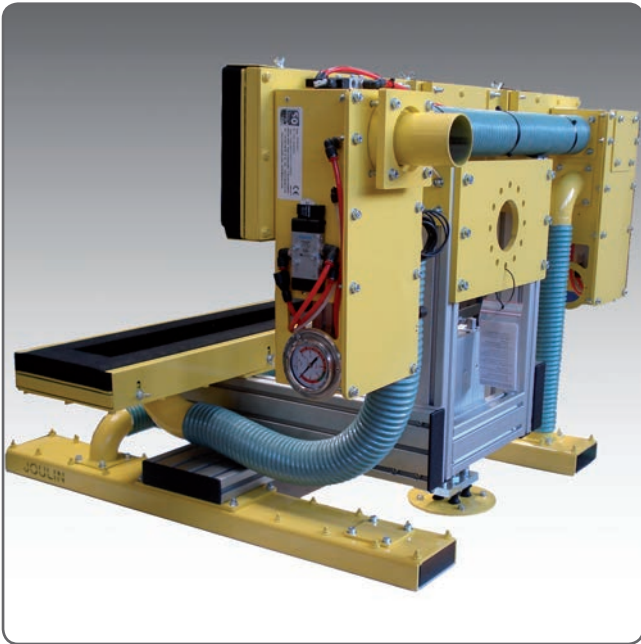
- Complete EOAT design and construction by JOULIN
- Partnership to achieve the goal
- 50 years of experience and knowledge at your service
- Designed with Griptech™ and Wave System™

more options

- Robot attachments
- Side bolsters
- Wiring and field bus
- Installation and on-site start-up available

SPECIAL GRIPPER

Foam Vacuum Gripper



Special glass wool gripper



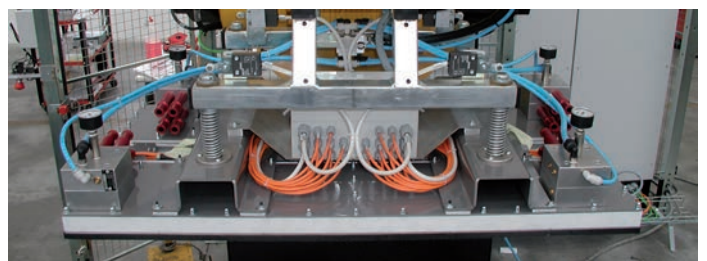
Special round gripper



Special bolster gripper

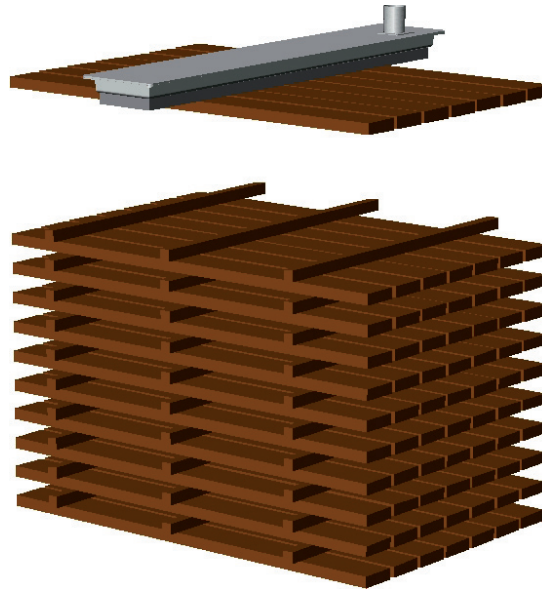


Special bolster gripper



LUMBER GRIPPER

Foam Vacuum Gripper


LG-

Range
of the gripper

VG

Technology :
- VG = Valve Gripper
- PG = Port Gripper

252

Version :
- 616
- 441
- 252
- 99
- 29
- 27

-P21

Pitch :
- P15
- P21
- P40
- P45
- P50

-N1200

Foam nominal :
- N1200
- N1300
- N1400
- N1500
- N1600
- etc, ...

concept

- Unique design
- Worldwide leader in the wood industry
- Foam pattern to fit your application
- Uneven surfaces
- Gripping power remains constant with single parts or entire layers

benefits

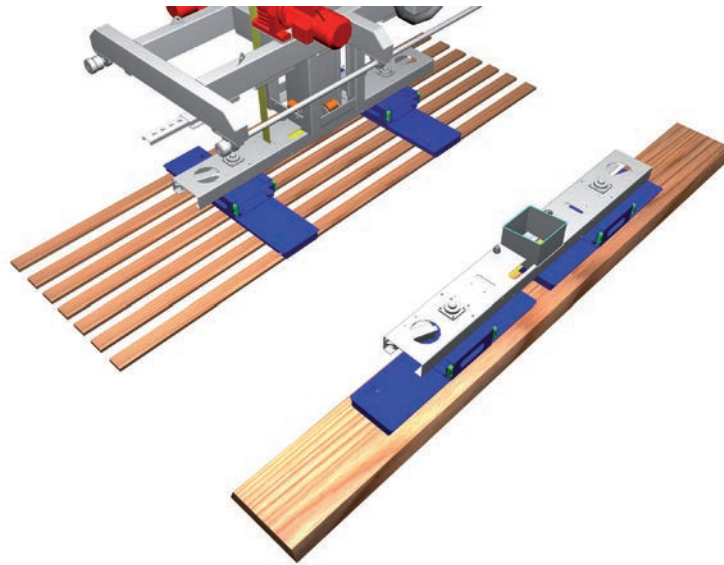
- Saving up to 50% with the «Wave System»™ (internal check valve)
- Easy and quick foam change
- Low maintenance
- Not sensitive to dust
- No filter required

easy to customize

- Easy and inexpensive to manufacture to fit your needs
- Many options available
- Adjustable lifting capacity with different check valves
- Complete frame to support the grippers
- Quick delivery time

LUMBER GRIPPER

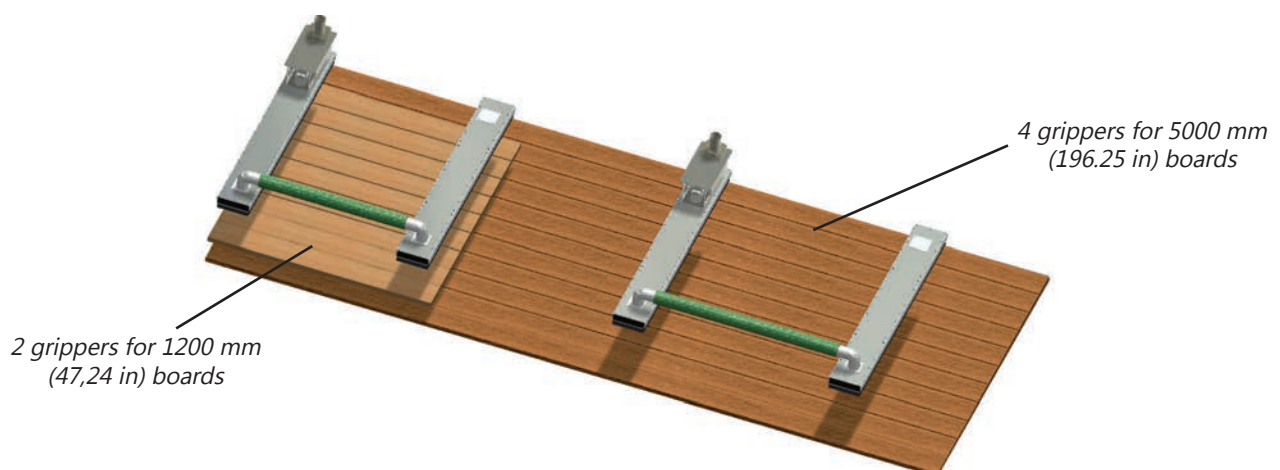
Foam Vacuum Gripper



The 3 steps for a good installation

First ; position of the gripper :

- The number of grippers depends on position and length of the boards



Second ; what kind of gripper to use :

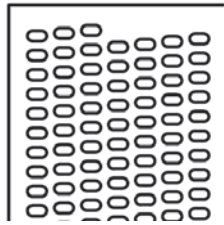
- Each lumber industry has its own specification
- There are different internal and external gripper designs to fit with each needs :
 - External : The bodies of the grippers are made with different material and design to fit with the working environment.
 - * Flush : The most common one. Available in steel or aluminum version.
 - * Pan : Recommended in the sawmills or pallet industries or where extreme conditions exist. The perimeter flange provides a very strong and safe design in case of collision.
 - Internal : All are equipped with the Joulin «Wave System»™ for energy savings and non sensitivity to dust or moisture.

LUMBER GRIPPER

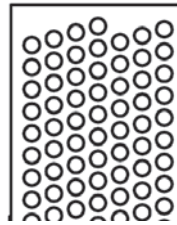
Foam Vacuum Gripper

Third ; lifting capacity :

- Once we know the lumber specifications, we will choose the number of grippers and design.
- Different foam materials patterns and holes sizes are available.



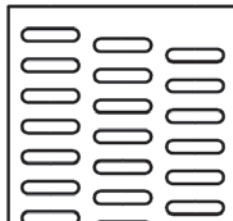
P15



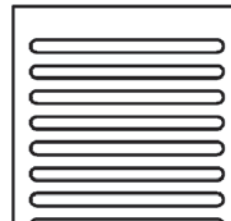
P21



P50



P40



P45

What is the grade :

- Industrial : rough lumber or panels
- Extreme : heavy duty design for oversize beams or extreme installation conditions

Grade	Reference	min width	Style
Industrial	VG616	25	Flush
Industrial	VG441	40	Flush
Industrial	VG252	50	Flush
Extreme	VG99	45	Pan
Extreme	VG29	80	Pan
Extreme	VG27	70	Pan

Options :

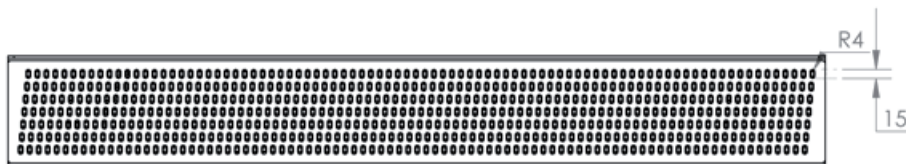
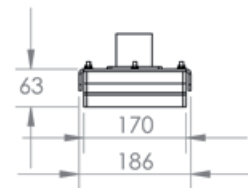
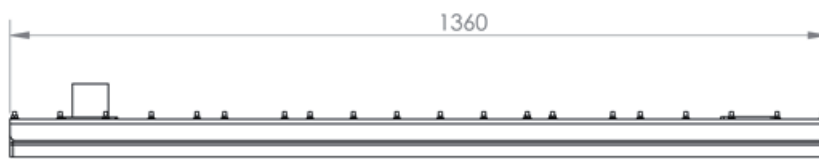
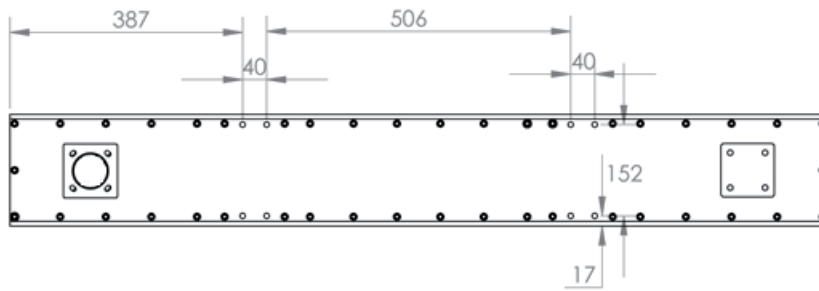
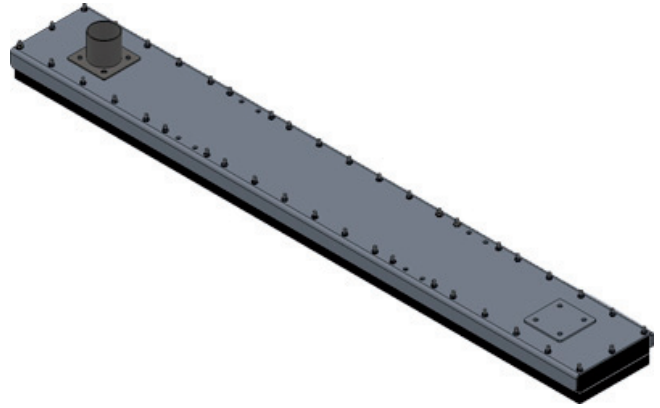
- PG version available (metered port)
- Flow reverser for quick release (light products, slip sheets)
- Blow off (light products, slip sheets)
- Flat, raised or flexible attachments (see page 69 for more information)
- Ejectors (venturi)
- Complete frame to support the grippers

specifications are subject to change

LUMBER GRIPPER

Foam Vacuum Gripper

VG616

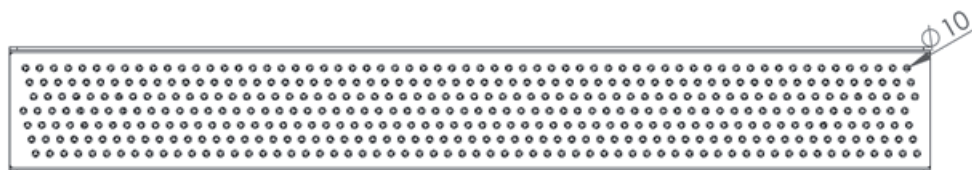
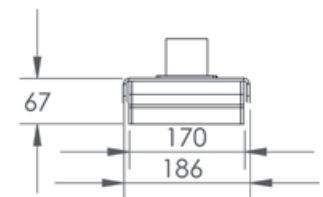
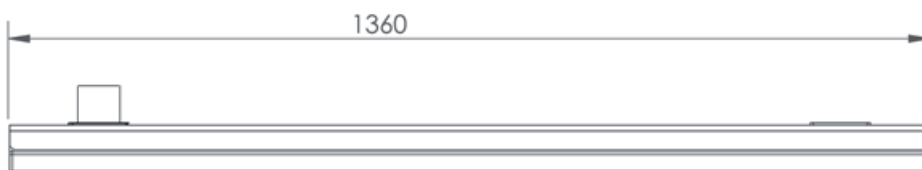
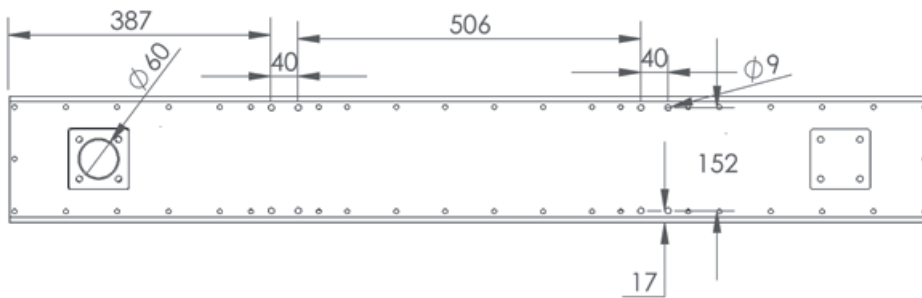
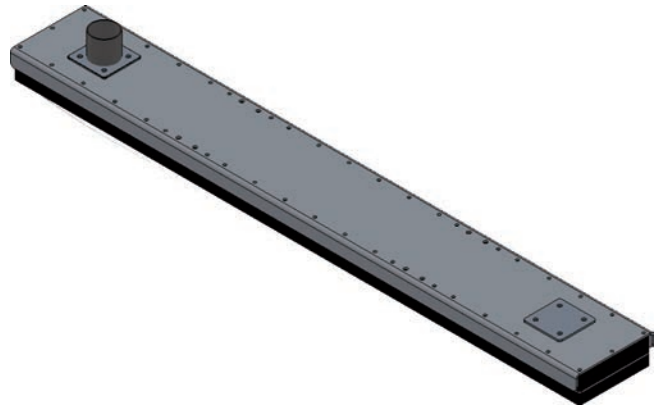


Grade	Reference	min width	Style
Industrial	VG616	25	Flush

LUMBER GRIPPER

Foam Vacuum Gripper

VG441

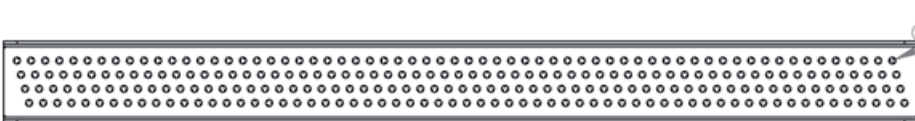
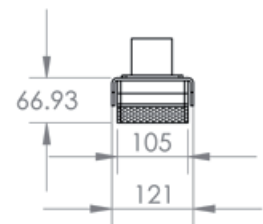
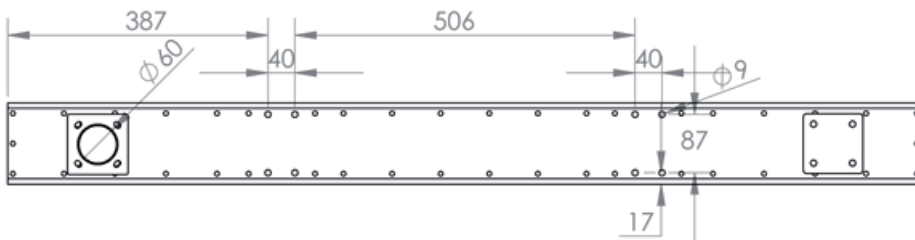
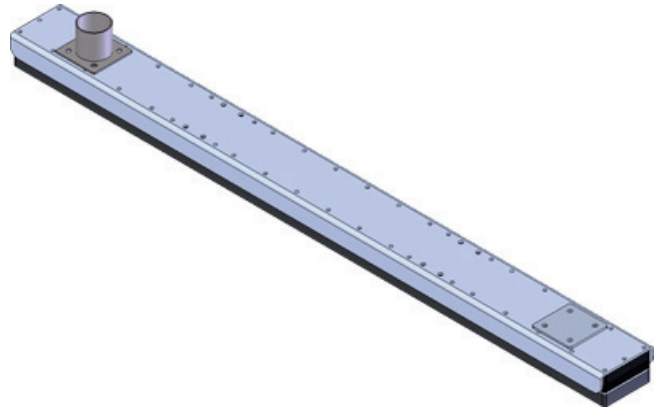


Grade	Reference	min width	Style
Industrial	VG441	40	Flush

LUMBER GRIPPER

Foam Vacuum Gripper

VG252

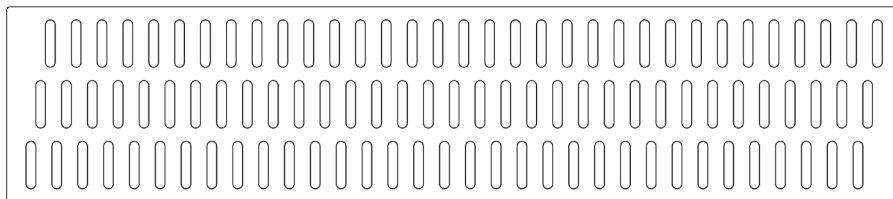
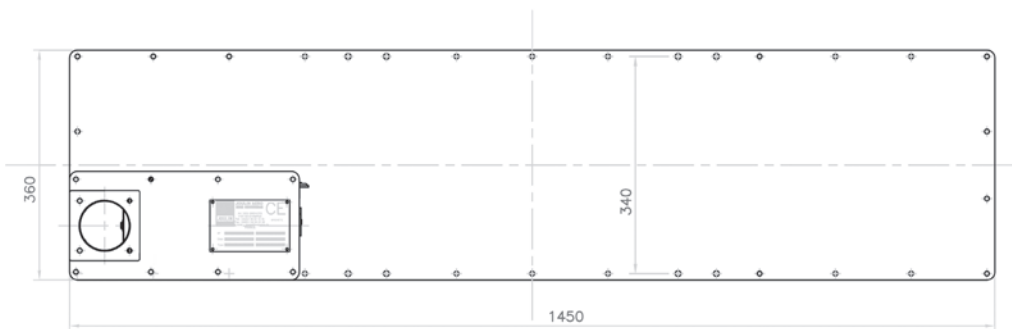
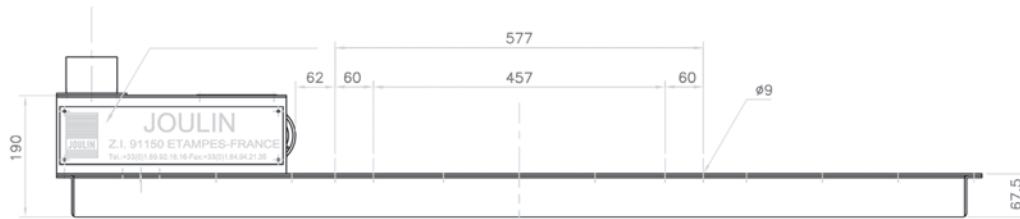
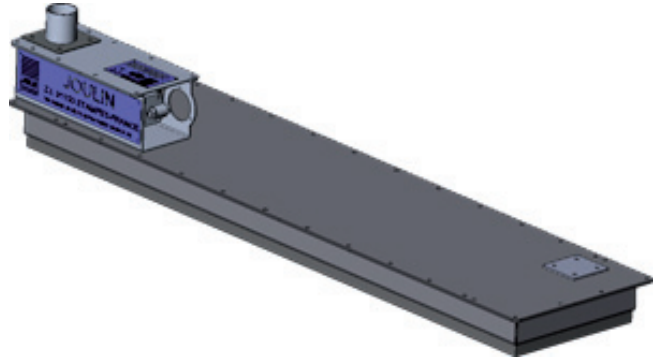


Grade	Reference	min width	Style
Industrial	VG252	50	Flush

LUMBER GRIPPER

Foam Vacuum Gripper

VG99

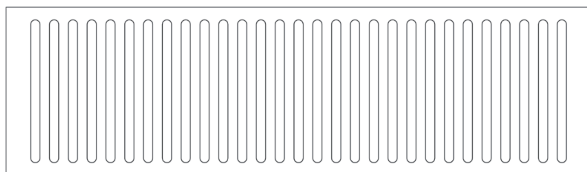
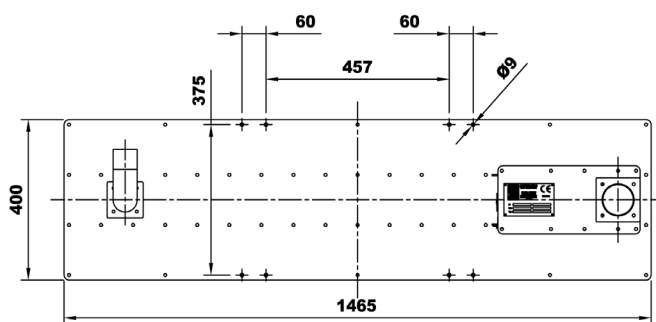
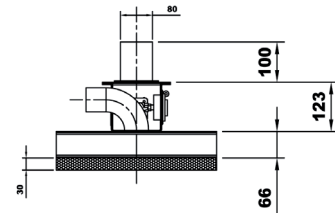
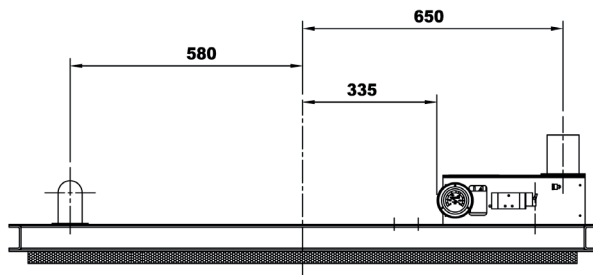
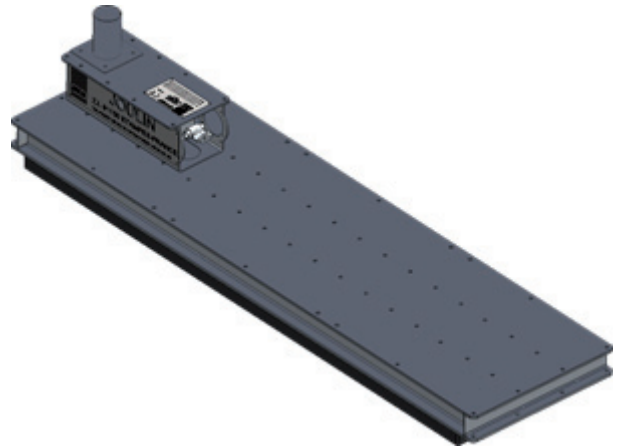
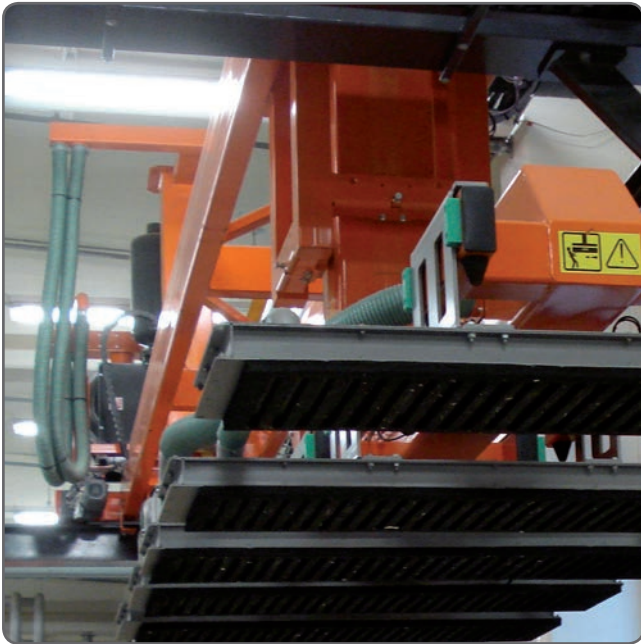


Grade	Reference	min width	Style
Extreme	VG99	45	Pan

LUMBER GRIPPER

Foam Vacuum Gripper

VG29

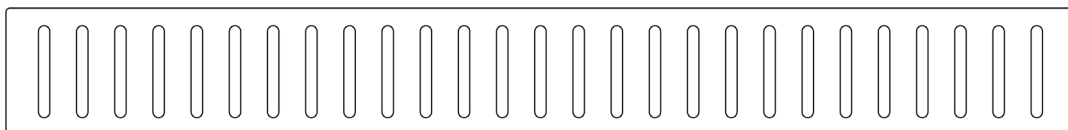
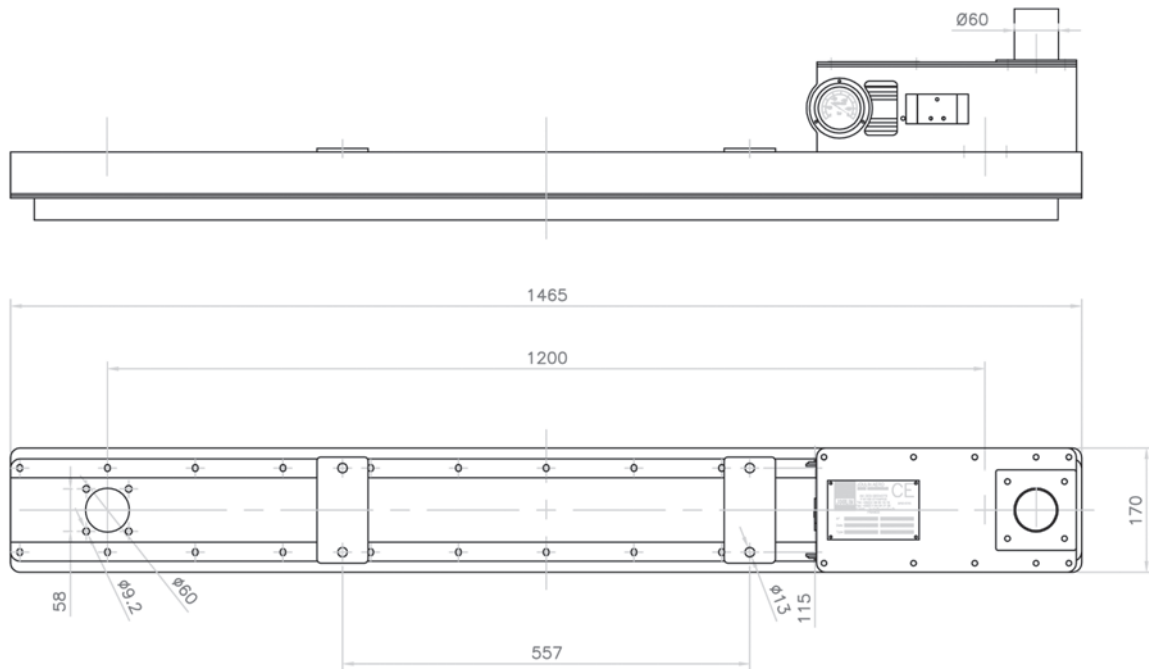
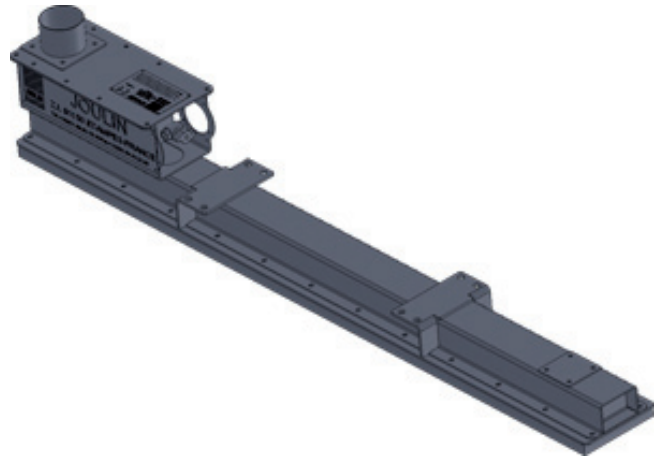


Grade	Reference	min width	Style
Extreme	VG29	80	Pan

LUMBER GRIPPER

Foam Vacuum Gripper

VG27



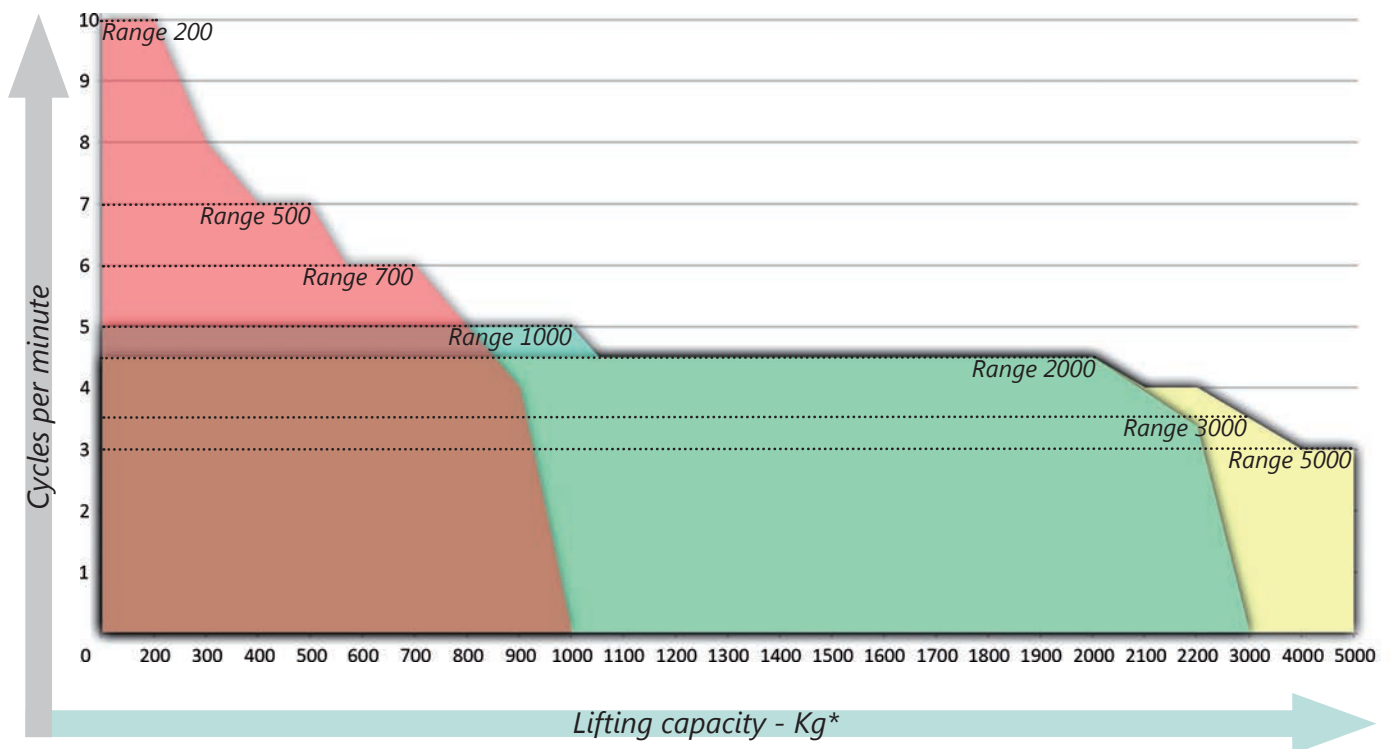
Grade	Reference	min width	Style
Extreme	VG27	70	Pan



The ideal tool for automating your functions :

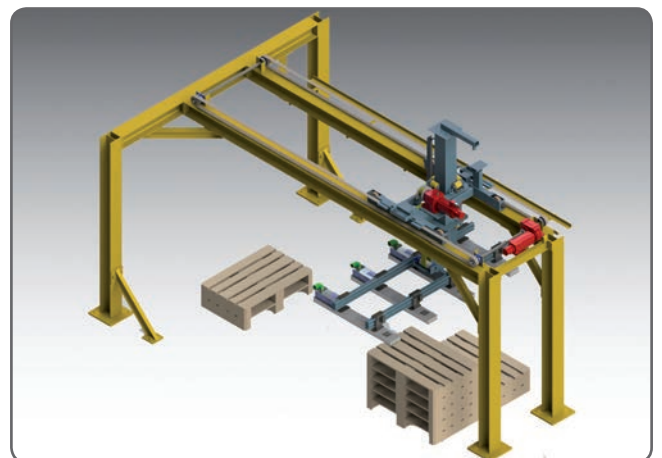
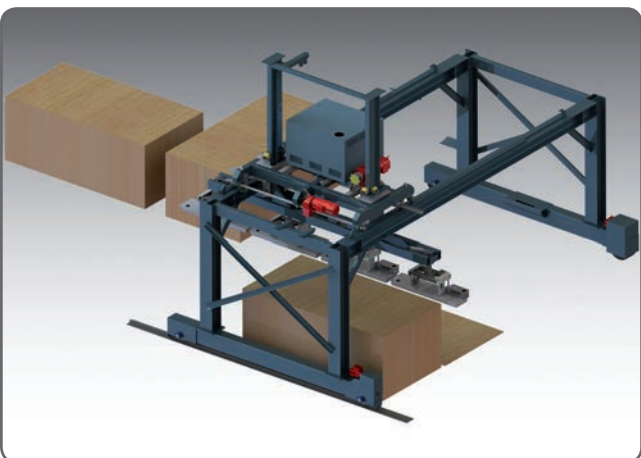
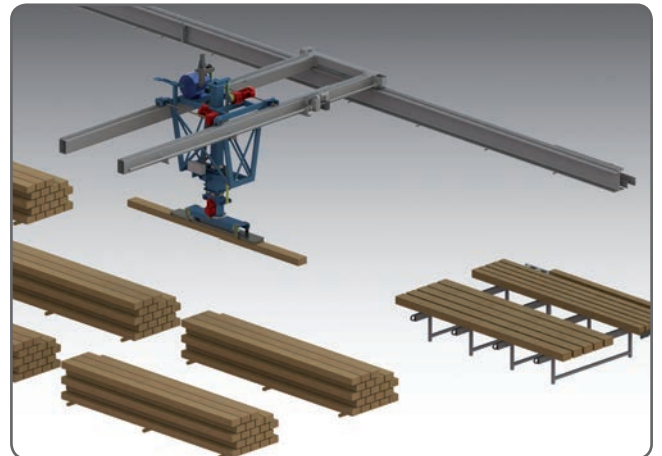
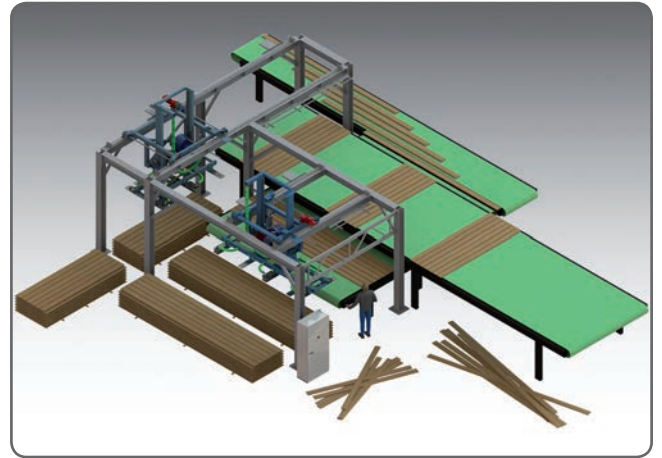
- Guaranteed Performance
- Stacking / destacking
- Automatic infeed of High speed production lines (Moulders, Resaws, Band Saws, Planers...)
- Sticking / desticking
- A large range of machines adapted to your needs
- Faster and lighter new machines (see chart below)
- Minimum maintenance

Since 1969, Joulin was the first to handle wood with low and high flow vacuum technology. Joulin is a versatile and reactive company with a well established international network.



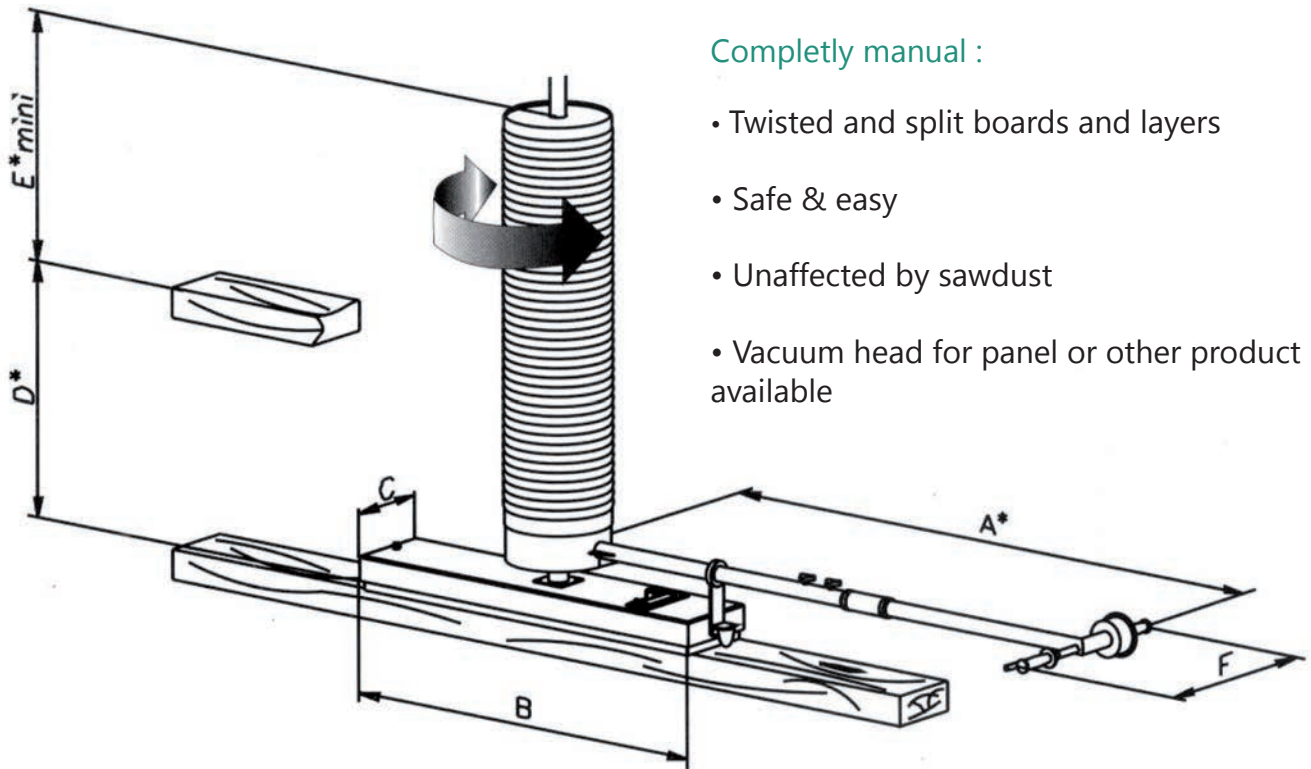
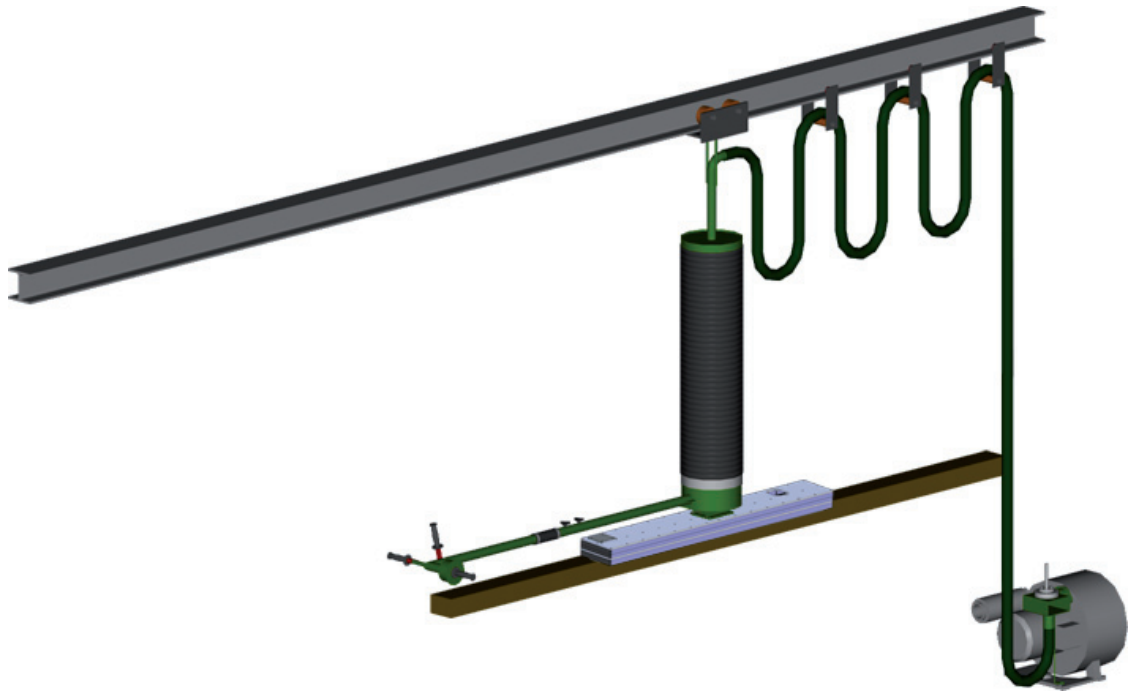
*Vary in relation with strokes and weight

Examples



Photos





Completely manual :

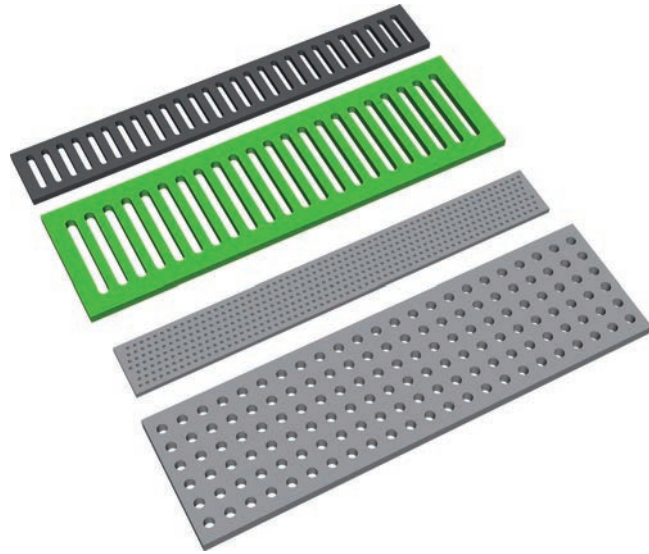
- Twisted and split boards and layers
- Safe & easy
- Unaffected by sawdust
- Vacuum head for panel or other product available

Type	Capacity	A* min	A* max	B	C	D*	E*	F
Handyvac 100	100 kg (220 Lbs)	1560 mm (61.41 in)	2460 mm (96.85 in)	1430 mm (56.3 in)	170 mm (6.69 in)	1570 mm (61.81 in)	1130 mm (44.49 in)	550 mm (21.65 in)
						2000 mm (78.74 in)	1300 mm (44.49 in)	550 mm (21.65 in)
Handyvac 250	250 kg (551 Lbs)	1560 mm (64.41 in)	2460 mm (96.85 in)	1430 mm (56.3 in)	230 mm (9.06 in)	1570 mm (61.81 in)	1130 mm (44.49 in)	550 mm (21.65 in)
						2000 mm (78.74 in)	1300 mm (44.49 in)	550 mm (21.65 in)

* Other dimensions on request

Photos





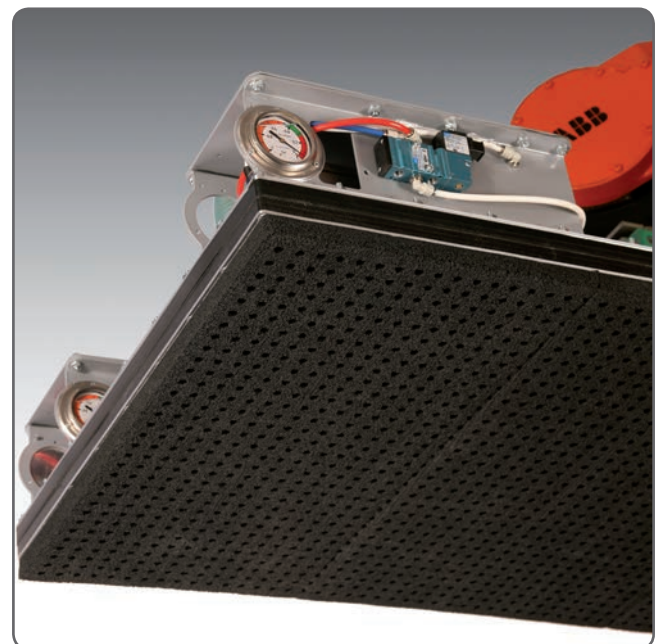
Need foams ?

Advantages :

- Large range of foam materials to fit your specific application
- Easy to remove and repositionable
- Different thicknesses
- Moisture resistant
- Better foam adhesive performance
- Consistent quality
- Custom dimensions possible
- Large stock of proprietary foam materials
- Punch or water Jet



Easy to remove...



...and replace

TURBINES (BLOWERS)

50 Hz

Available on request :

- Flow reverser
- Release box
- Additional silencer
- Sound enclosure



**Elmo
Rietschle**
A Gardner Denver Product



VB 150 :

- Maximum flow rate : 87 m³/h (51.2 scfm)
- Maximum vacuum : -480 mbar
- Power : 1.5 kw



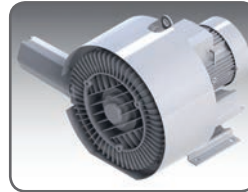
VB 220 :

- Maximum flow rate : 120 m³/h (70.7 scfm)
- Maximum vacuum : -450 mbar
- Power : 2.2 kw



VB 330 :

- Maximum flow rate : 170 m³/h (100.1 scfm)
- Maximum vacuum : -450 mbar
- Power : 3.3 kw



VB 430 :

- Maximum flow rate : 320 m³/h (188.4 scfm)
- Maximum vacuum : -450 mbar
- Power : 4.3 kw



VB 750 :

- Maximum flow rate : 520 m³/h (306.2 scfm)
- Maximum vacuum : -450 mbar
- Power : 7.5 kw



VB 710 :

- Maximum flow rate : 740 m³/h (435.8 scfm)
- Maximum vacuum : -300 mbar
- Power : 7.5 kw



VB 1100 :

- Maximum flow : 720 m³/h (420 scfm)
- Maximum vacuum : -550 mbar
- Power : 11 kw



VB 1650 :

- Maximum flow rate : 1100 m³/h (647.7 scfm)
- Maximum vacuum : -400 mbar
- Power : 16.5 kw



VB 1500 :

- Maximum flow rate : 740 m³/h (435.8 scfm)
- Maximum vacuum : -450 mbar
- Power : 15 kw



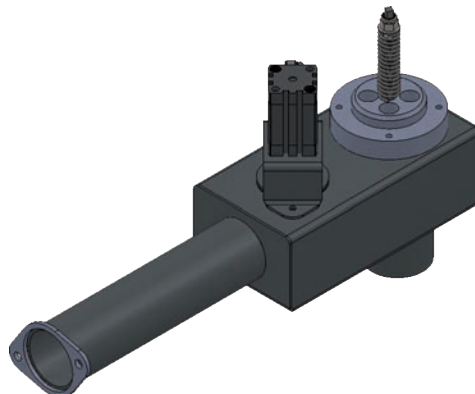
VB 2200 :

- Maximum flow rate : 1450 m³/h (853.8 scfm)
- Maximum vacuum : -450 mbar
- Power : 22 kw



VB 3700 :

- Maximum flow rate : 1800 m³/h (1059.9 scfm)
- Maximum vacuum : -450 mbar
- Power : 37 kw

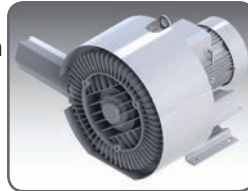


Standard Blower Module



VB 380 :

- Maximum flow rate : 119.5 scfm (203 m³/h)
- Maximum vacuum : -13.3 InHg (-450 mbar)
- Power : 3.8 kw (5.1 HP)



VB 480 :

- Maximum flow rate : 226.7 scfm (385 m³/h)
- Maximum vacuum : -13.3 InHg (-450 mbar)
- Power : 4.8 kw (6.4 HP)



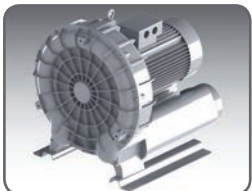
VB 630 :

- Maximum flow rate : 226.7 scfm (385 m³/h)
- Maximum vacuum : -13.0 InHg (-440 mbar)
- Power : 6.3 kw (8.5 HP)



VB 860 :

- Maximum flow rate : 365.1 scfm (620 m³/h)
- Maximum vacuum : -10.6 InHg (-360 mbar)
- Power : 8.6 kw (11.5 HP)



VB 780 :

- Maximum flow rate : 518.2 scfm (880 m³/h)
- Maximum vacuum : -8.9 InHg (-300 mbar)
- Power : 9 kw (12.1 HP)



VB 1260-18 :

- Maximum flow rate : 365.1 scfm (620 m³/h)
- Maximum vacuum : -13.3 InHg (-450 mbar)
- Power : 12.6 kw (16.9 HP)



VB 1260-20 :

- Maximum flow rate : 494.6 scfm (840 m³/h)
- Maximum vacuum : -10.0 InHg (-340 mbar)
- Power : 12.6 kw (16.9 HP)



VB 1730 :

- Maximum flow : 494.6 scfm (840 m³/h)
- Maximum vacuum : -15.7 InHg (-530 mbar)
- Power : 17.3 kw (23.2 HP)



VB 1900 :

- Maximum flow : 783.1 scfm (1330 m³/h)
- Maximum vacuum : -10.0 InHg (-340 mbar)
- Power : 19.0 kw (25.5 HP)



VB 2300 :

- Maximum flow rate : 783.1 scfm (1330 m³/h)
- Maximum vacuum : -13.0 InHg (-440 mbar)
- Power : 23 kw (30.8 HP)

Higher power available to reach higher level of vacuum when needed



VB 1800 :

- Maximum flow rate : 435.8 scfm (740 m³/h)
- Maximum vacuum : -11.8 InHg (-400 mbar)
- Power : 18 kw (24.1 HP)



VB 2500 :

- Maximum flow rate : 853.8 scfm (1450 m³/h)
- Maximum vacuum : -11.8 InHg (-400 mbar)
- Power : 25 kw (33.5 HP)



VB 4300 :

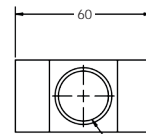
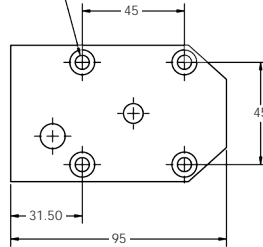
- Maximum flow rate : 1059.9 scfm (1800 m³/h)
- Maximum vacuum : -11.8 InHg (-400 mbar)
- Power : 43 kw (57.7 HP)

Cartridge manifolds

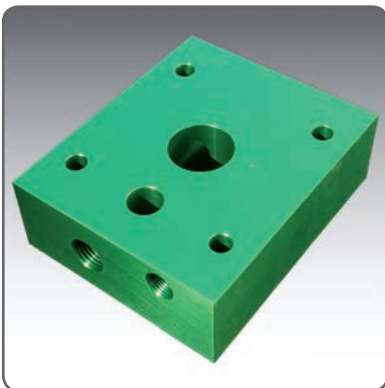


PPMS
Weight : 350g

4xØ6.20 THRU FOR M6 BOLT



LOCATION FOR ONE MIDI CARTRIDGE



PPMD Bottom
Weight : 399g

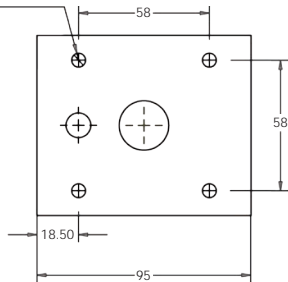


PPMD Top
Weight : 390g

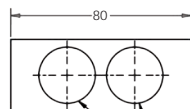
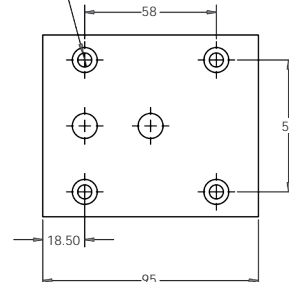


PPMD Dual
Weight : 789g

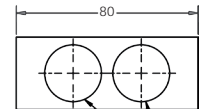
4Ø6.20 THRU FOR M6 BOLT



4xØ6.20 THRU FOR M6 BOLT

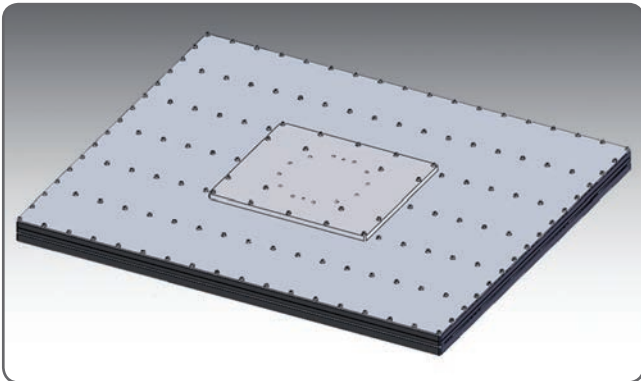


LOCATION FOR TWO MIDI CARTRIDGES



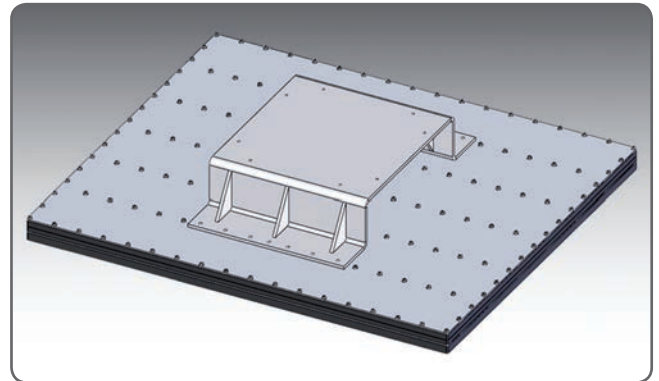
LOCATION FOR TWO MIDI CARTRIDGES

Attachments



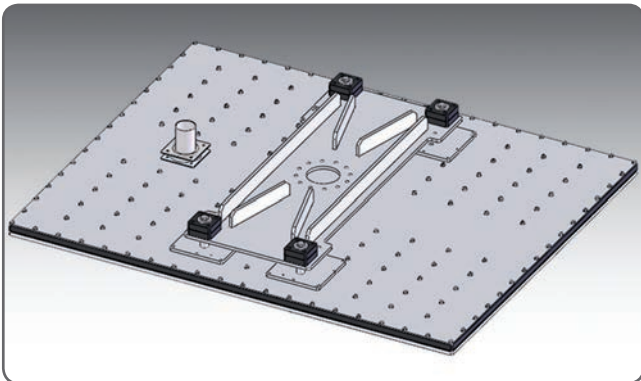
Flat plate attachment :

The most simple and economical way to attach the gripper to the robot



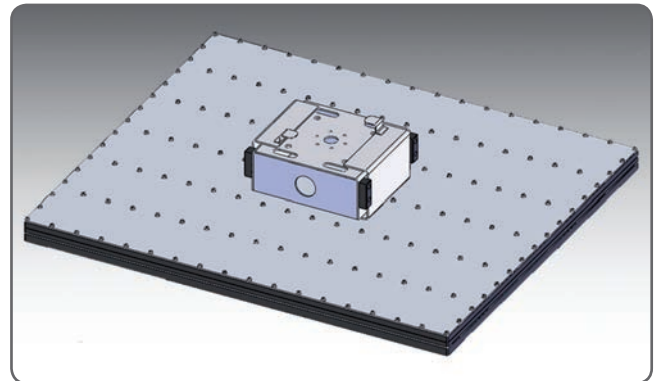
Raised attachment :

Fixed without the need to dismount the plate to install on the the robot



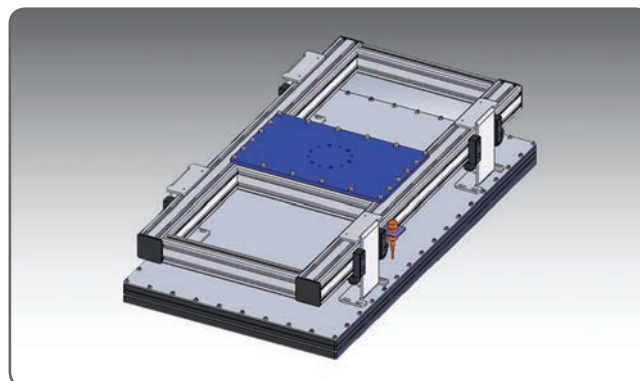
Floating attachment type 1 :

When vertical movement is needed between the robot and gripper



Floating attachment type 2 :

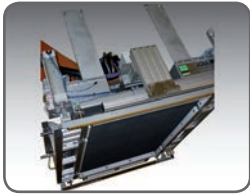
3 axis movement between robot and gripper.
For twisted layer or products



Floating attachment type 3 :

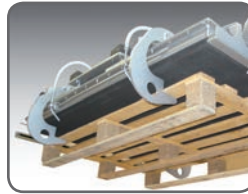
For multiple or long grippers
3 axis mount

Spare Parts



Bolster :

- Help to support or relocate products to be lifted up



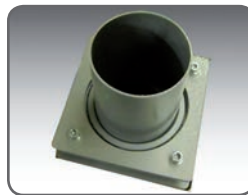
Clamp :

- Extra mechanical or cups grippers



Hose :

- From Ø 40 to Ø 80 mm
- Heat resistant available



Rotating connections :

- From Ø 40 to Ø 80 mm
- Available in steel or aluminum



Sensors :

- Fieldbus or regular sensor to mount on or in the gripper



Vacuum gauge :

- Digital or standard gauges



Electrovalves :

- All pneumatical equipment



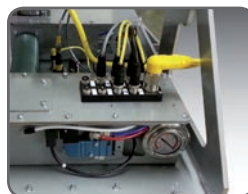
Field Bus :

- Ready to use
- Different versions available



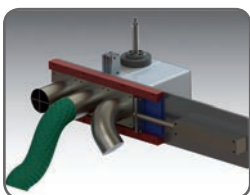
Vacuum control :

- Safety valve for electrical blower



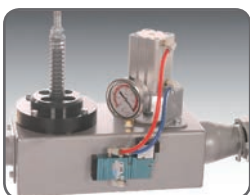
Electrical Connection :

- Sensors and all electrical equipments
- M12 connection (more on request)



Flow reverser :

- Includes vacuum control and pneumatic shuttle valve
- Designed for all Elmo Rietschle vacuum generators



Blower module :

- Includes vacuum control and pneumatic venting
- Attached to the turbine with safety vacuum valve and breathing cylinder included

From the first gripper built to last modern gripper, Joulin is able to provide you all the parts you need for your lifter.



50 years of experience

- ⇒ Inventor of the Foam Gripper
- ⇒ Family owned

Full range

- ⇒ Grippers, frames or complete systems
- ⇒ Not sensitive to dust or debris
- ⇒ Wave System™
50% energy saving

Complete Vacuum Solutions

JOULIN is your long term partner providing the best and most versatile vacuum grippers and lifters.

Standard and Custom

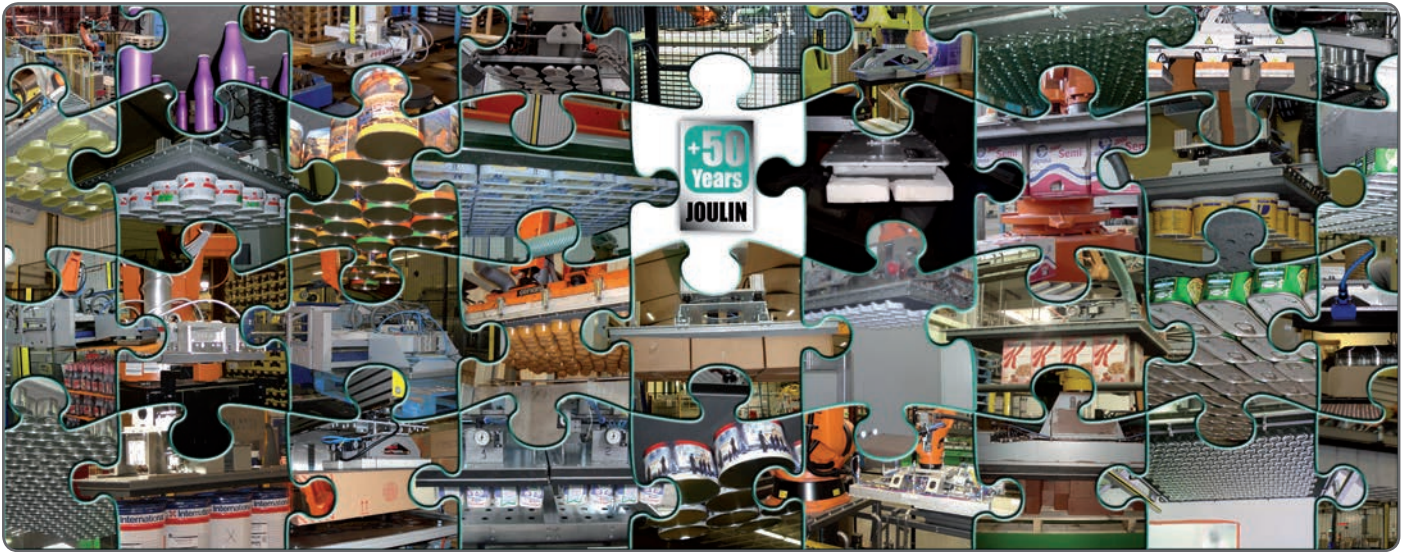
- ⇒ Standard Product line
- ⇒ Complete Custom systems
- ⇒ Wide range of options

Manufacturing and design facilities in Europe and the USA

- ⇒ Worldwide references
- ⇒ Reliable, low maintenance



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Have a problem handling your products ?

Team Joulin has 50 years of Research and Development resulting in better solutions, more options, and vacuum systems offering greater flexibility than ever before.