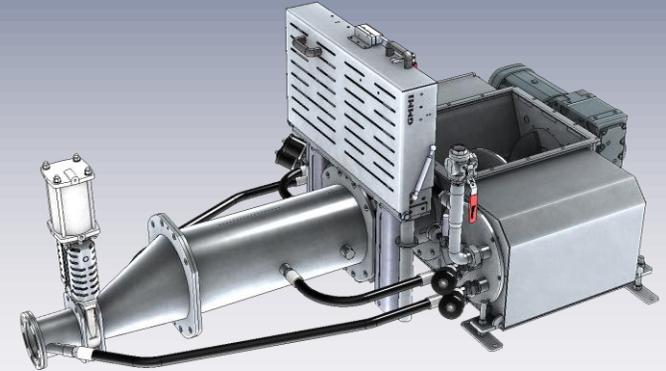


# TRANSFERT THROUGH PIPES

SONIC EFFECT SYSTEM

GIBAIR  
GICOMPRESS  
GIBPOMPE



**BIOSECURITY**

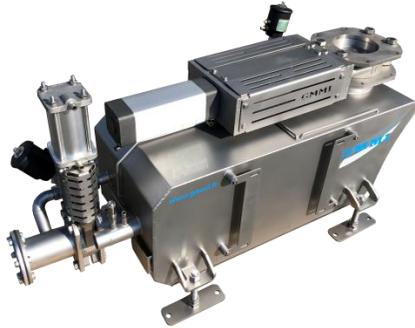
GMMI  
Z.A. de Bel Air  
22600 LA MOTTE  
Tél. 02 96 25 41 00  
Fax 02 96 25 40 46  
gmmi@gmmi.fr  
www.gmmi.fr  
FRANCE



Design of industrial equipment

# GIBAIR

Remove handling on the ground and eliminates any risk of cross-contamination. Being very powerful, its "sonic effect" based technology considerably minimizes the consumption of compressed air for the distance to be covered.



PRODUCTS TRANSFERRED :





## **CONTINUOUS PRODUCTION :**

- ◇ Completely automated
- ◇ Simultaneous transfer from a number of gibair on the same line

## **SONIC EFFECT :**

- ◇ 7 times more powerful than suction vacuum technology
- ◇ Unlimited transfer distance thanks to its “Sonic Effect”
- ◇ Enables horizontal as well as vertical transfer
- ◇ Versatile, it enables automated handling many times of products

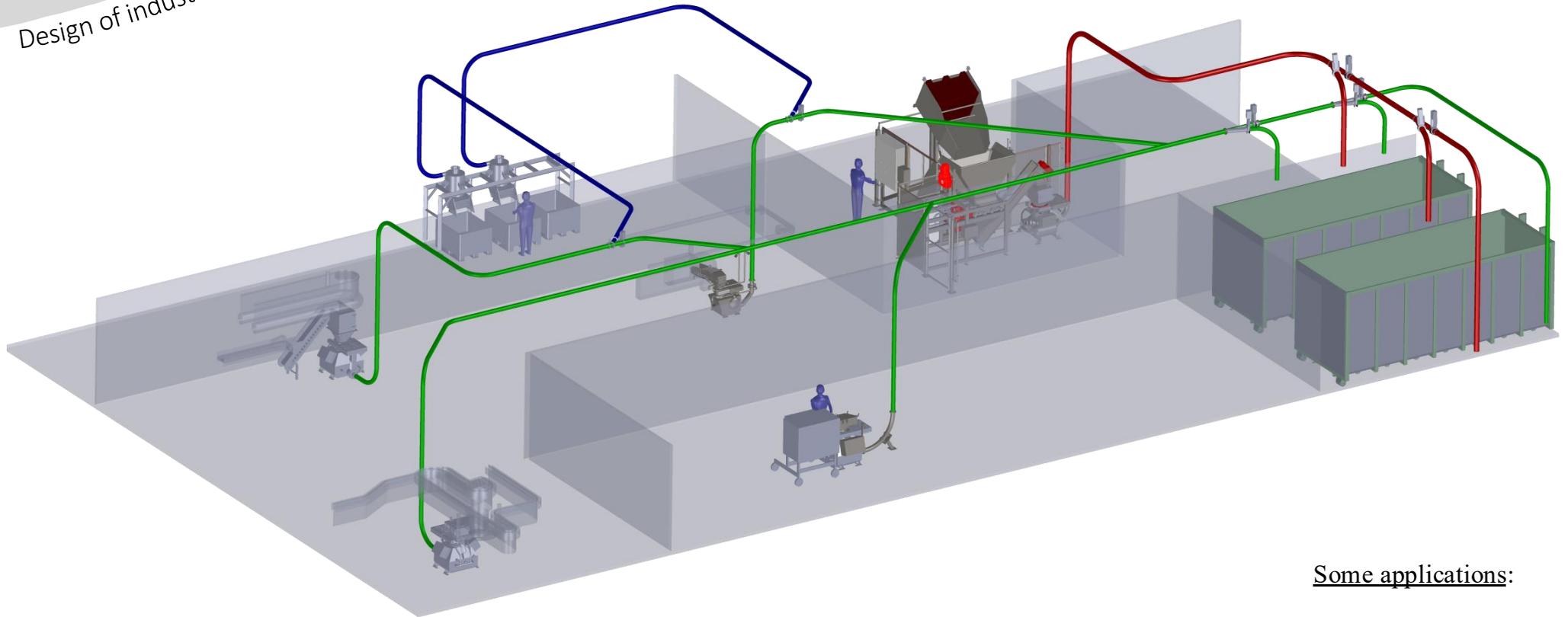
## **HYGIENE, SAFETY, RELIABILITY :**

- ◇ Avoids manual transportation of delicate materials in high-risk production rooms
- ◇ Fully washable system in automatic mode
- ◇ Very robust, no particular maintenance



Design of industrial equipment

# GIBAIR



## Some applications:

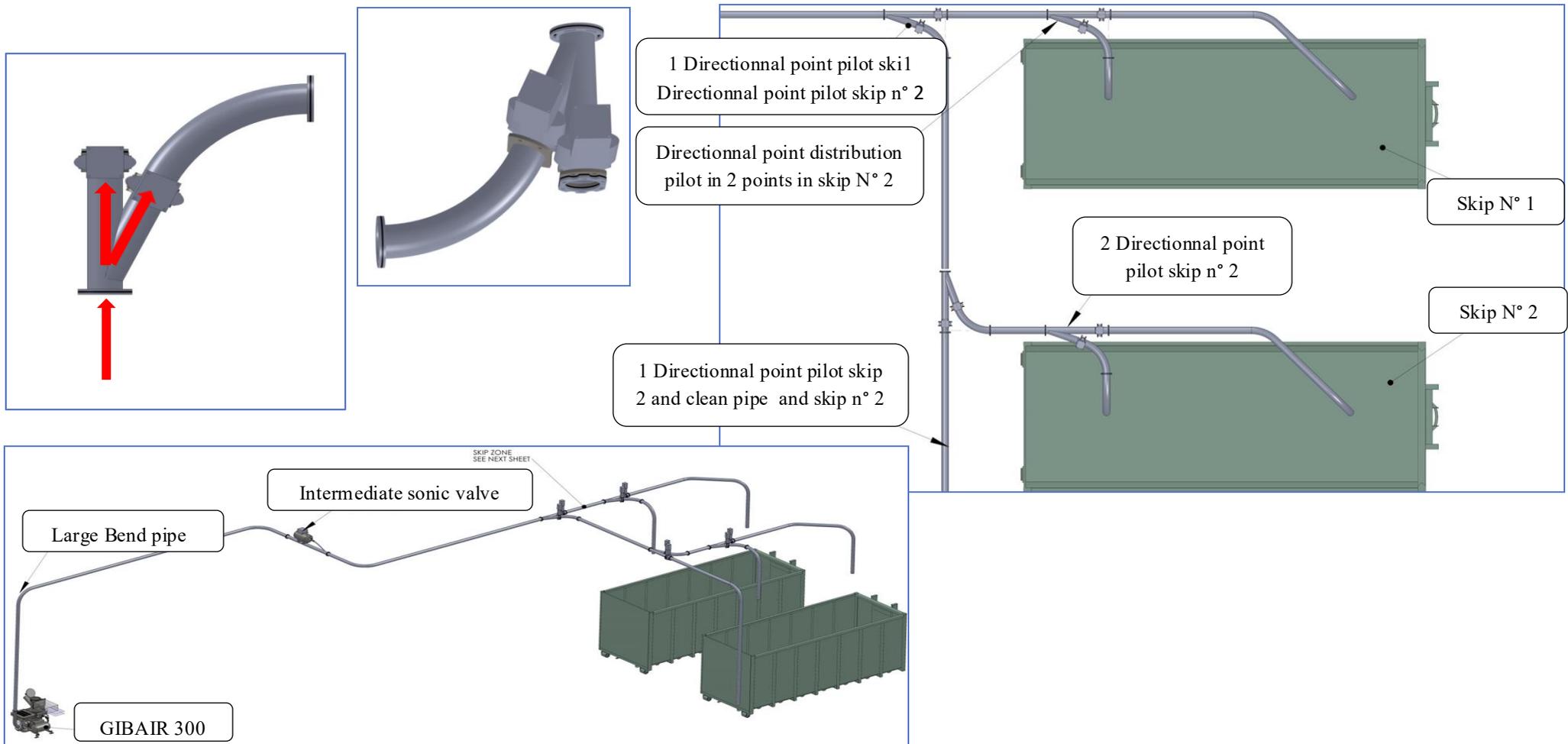
meat, MDM, whole chickens, turkeys, legs, heads,  
necks, wings, rumps, backs, bones, giblets, paunches, liquids, fish,  
fish heads, meat and bone meals, pellets, cereals, powdered milk, plastic  
packages, paper, ingredients, scraps from prepared dishes, etc...



# PRODUCT EXAMPLE

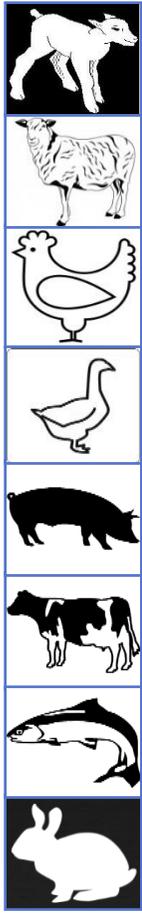
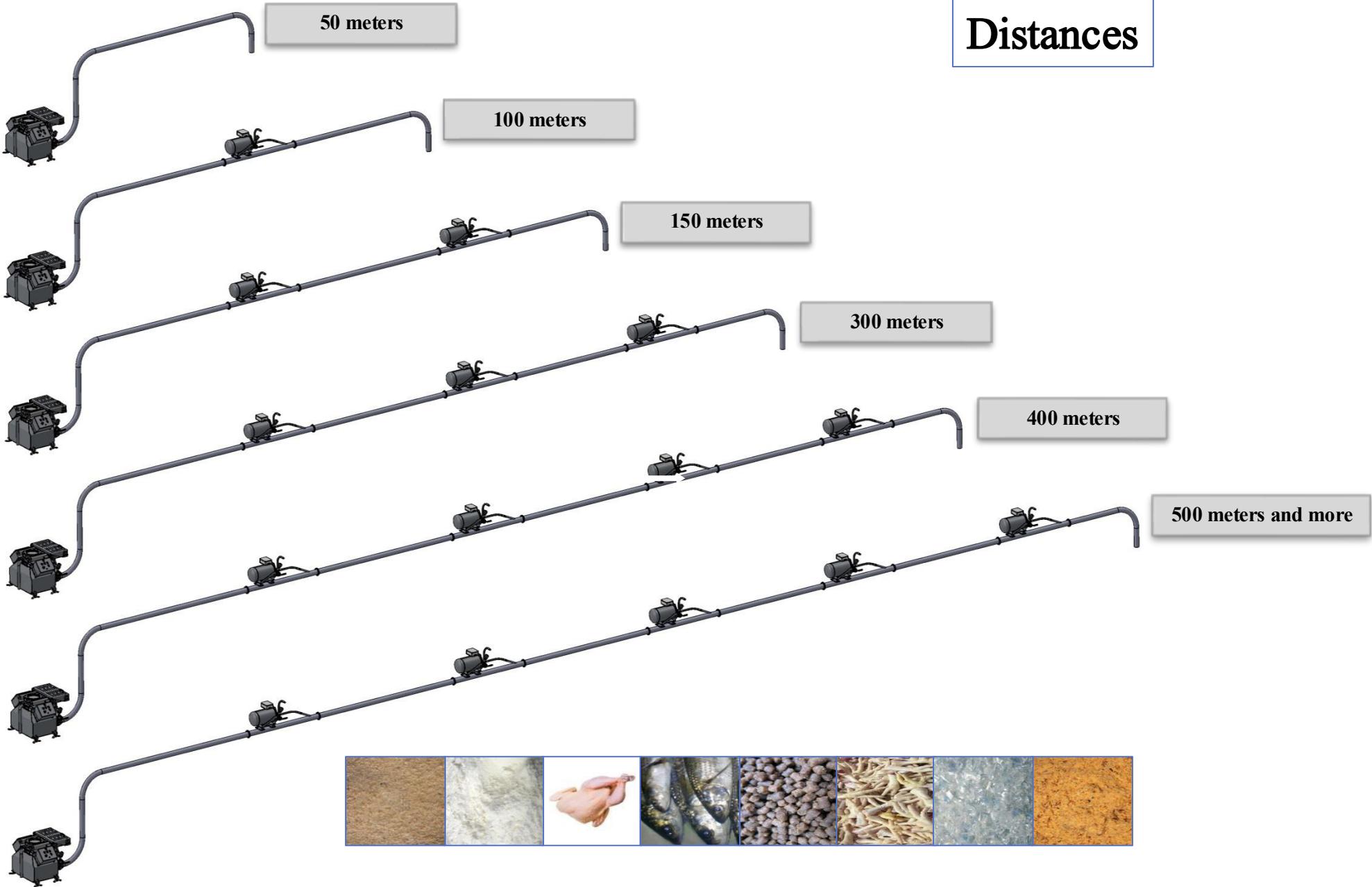
MDM WASTE		NECKS	
CARCASSES		BONES	
WHOLE CHICKEN		SKINS	
HEADS		LIVERS	
FEET		DRUMSTICKS	
OFFALS		RUMPS	
BREASTS		WING TIPS	

## Directionnal pipe diverter





# Distances

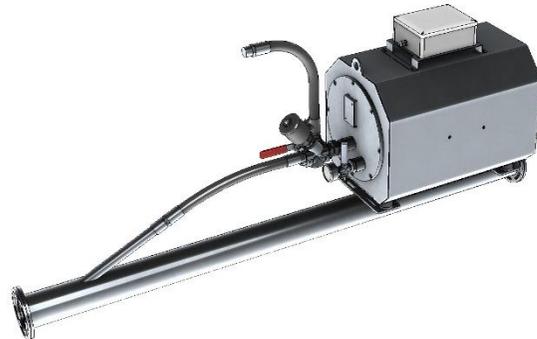




Design of industrial equipment

# GIBAIR

## Intermediate sonic valve

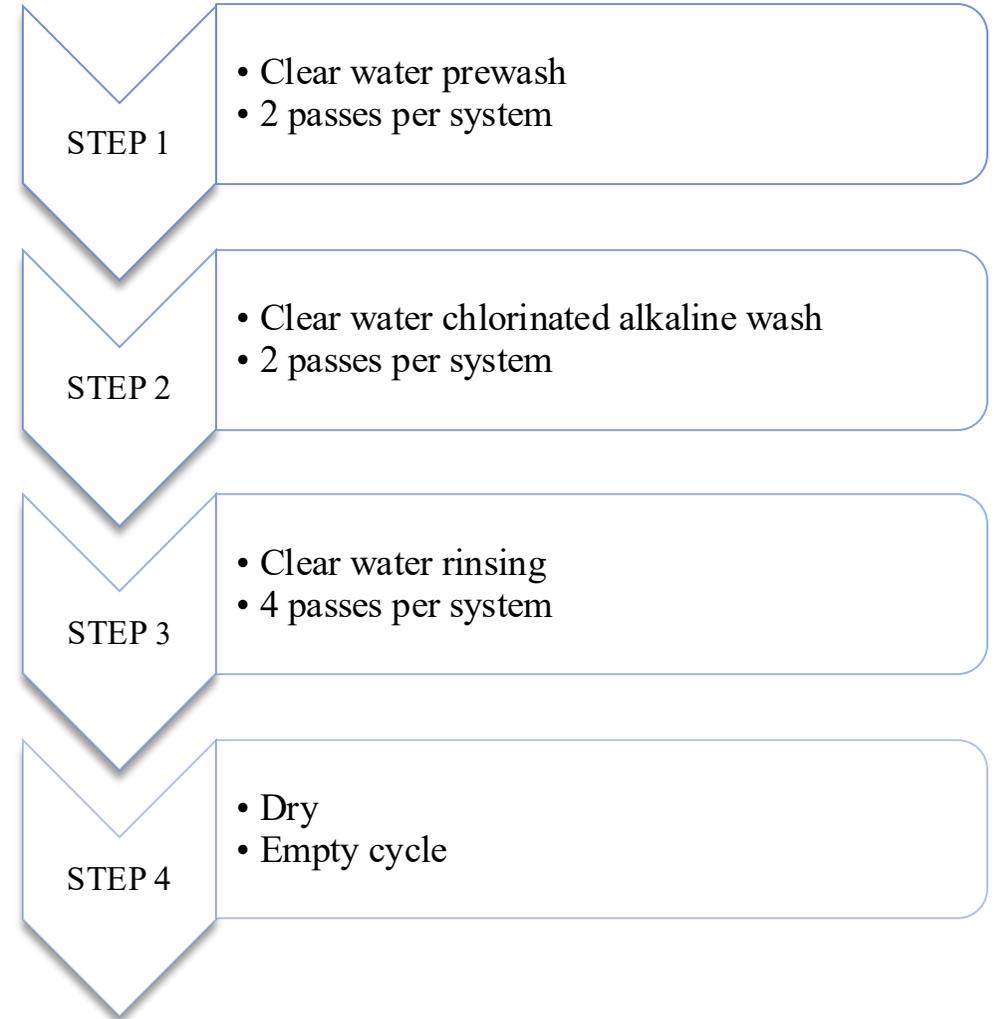
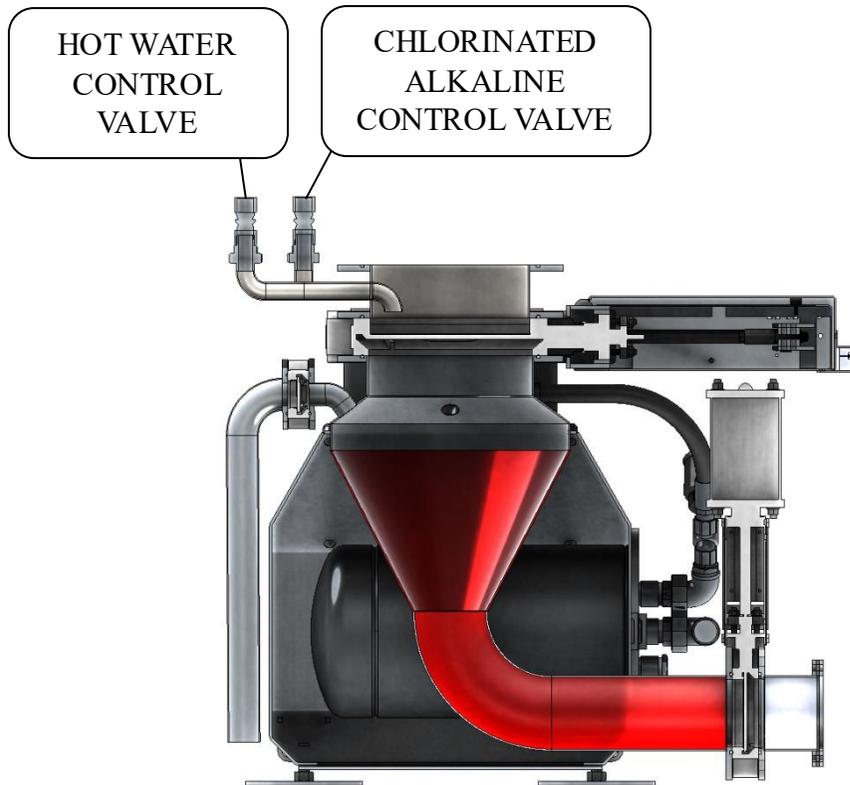


Preassembled between flange on part of pipe, an intermediate sonic valve is installed directly on the network for unlimited distances (1 intermediate sonic valve every 50 meters depending on the product and the network)

## CIP (CLEAN IN PLACE)

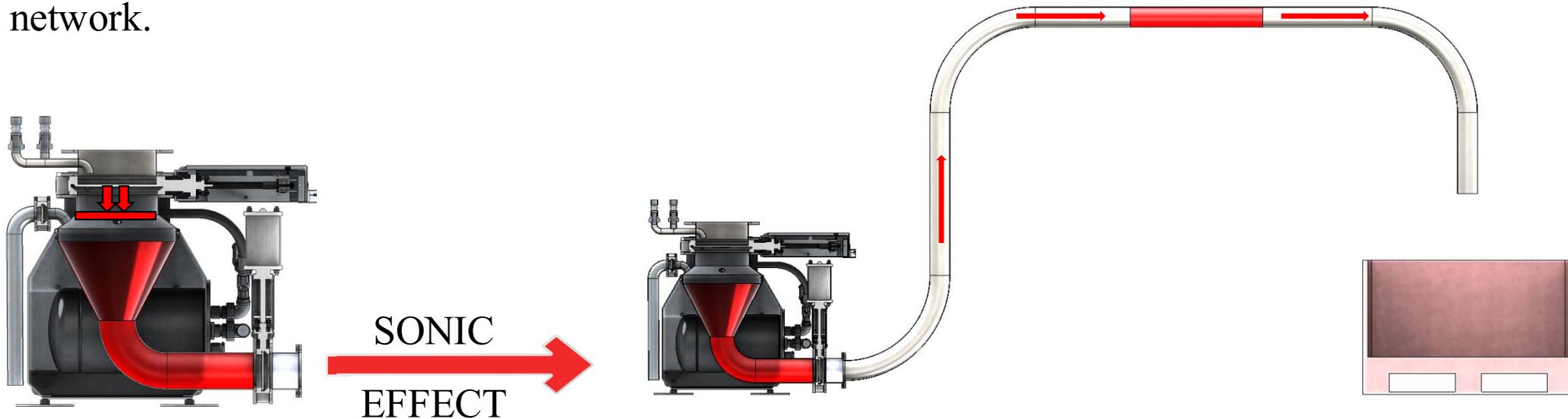
WASH WATER LOST (PROGRAMMING PAR PLC GIBAIR)

(Hot water + chlorinated Alkaline customer supplied)



## CIP (CLEAN IN PLACE)

With the sonic effect you can push the liquid in the pipe and use the power to clean mechanically all the pipe along the network.





Design of industrial equipment

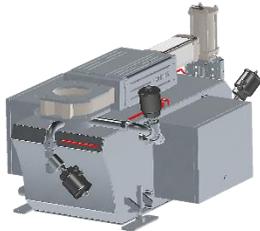
# GIBAIR

## Our models

150 AIR 80



150 SL 80



200 SL 100



300 SL 100



300 SL 125



450 SL 200



A response tailored to your  
needs

Patented process



Design of industrial equipment

# GIBAIR

## Our models

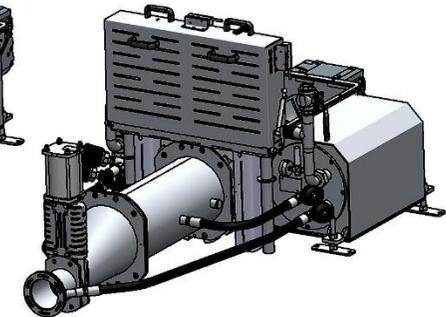
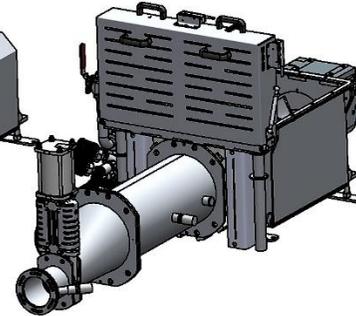
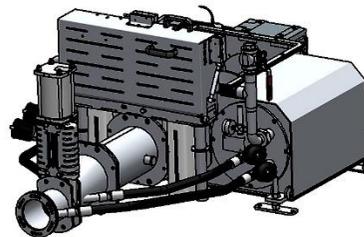
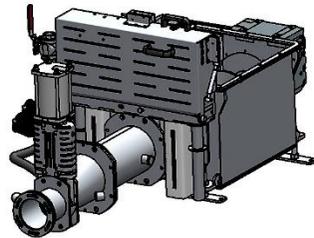
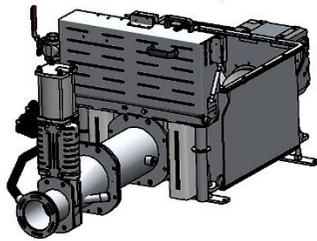
GICOMPRESS  
200 SL 200

GICOMPRESS  
300 SL 200-1B

GICOMPRESS  
300 SL 200-2B

GICOMPRESS  
300 SL 300-1B

GICOMPRESS  
300 SL 300-2B



A response tailored to your  
needs

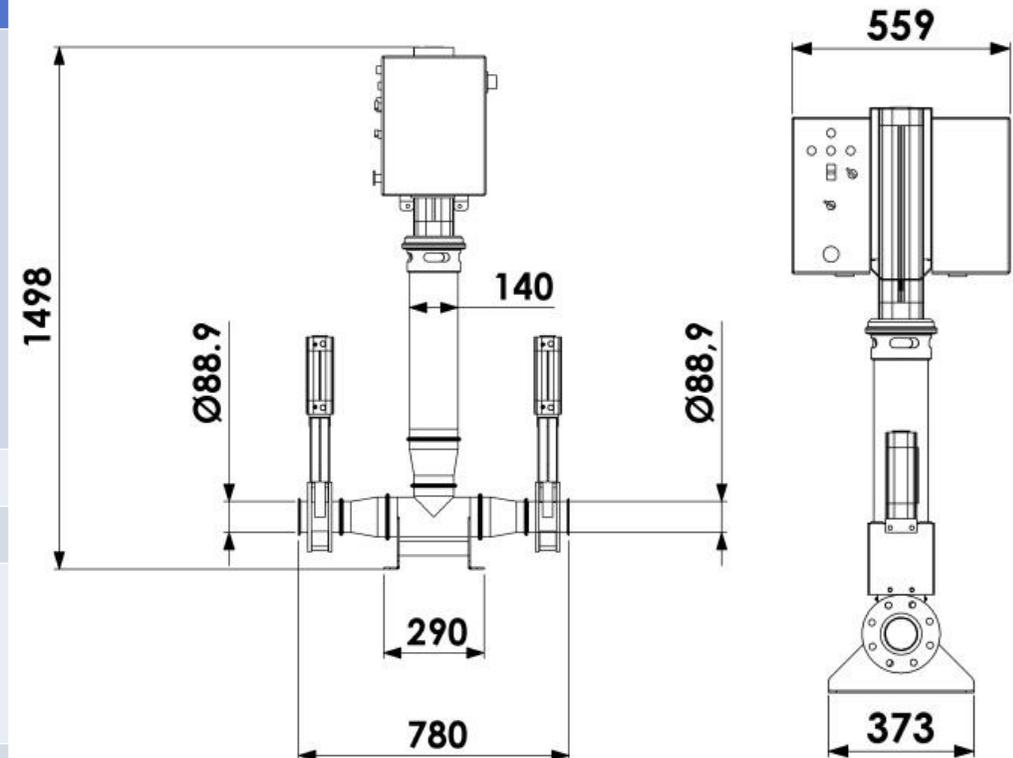
Patented process



# DATA SHEET GIBPOMPE 125 VG 80

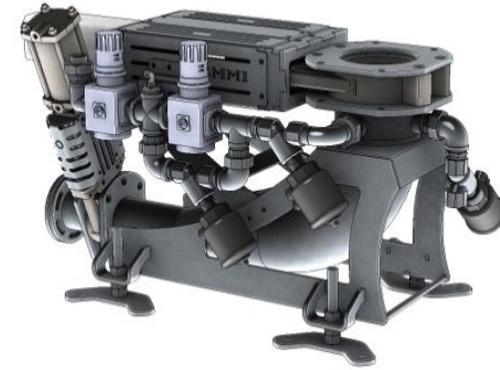


<b>Patented transfer system :</b>	<i>GIBPOMPE 125 VG 80</i>
<b>Type of material :</b>	<i>Liquid materials</i> <i>Soft materials</i> <i>Viscous materials</i> <i>Hard + soft materials</i> <i>Hard + solid materials</i> <i>Sauces, cream</i>
<b>Compressed air :</b>	<i>Operating pressure 6 bars minimum</i>
<b>Option :</b>	<i>Automatic cleaning</i>
<b>Debit max. according to product :</b>	
<i>Soft materials :</i>	<i>4 m<sup>3</sup> / Hour</i>
<b>Biosecurity:</b>	<i>Hygiene, safety, reliability</i>

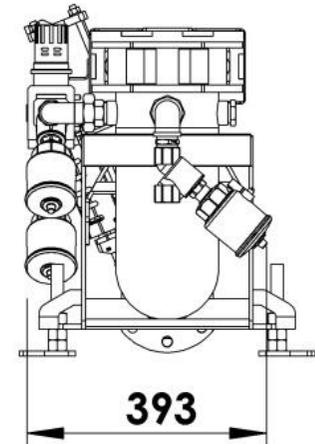
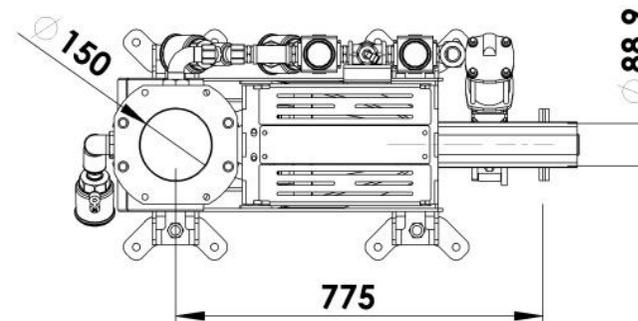
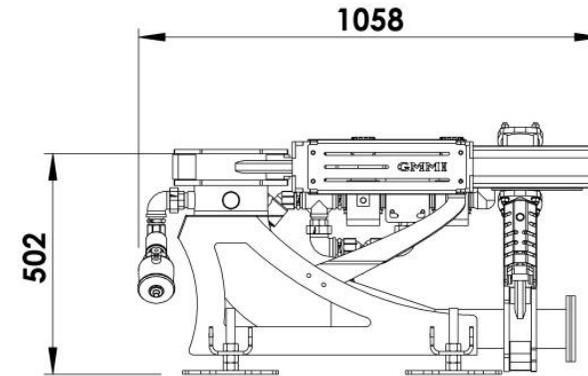




# DATA SHEET GIBAIR 150 AIR 80



Patented transfer system :	<i>GIBAIR 150 AIR 80</i>
Type of material :	<i>Soft materials</i> <i>Viscous materials</i> <i>Hard + soft materials</i> <i>Hard + solid materials</i> <i>Sauces, cream</i>
Compressed air :	<i>Operating pressure 6 bars minimum</i>
Option :	<i>Automatic cleaning</i>
Debit max. according to product :	
<i>Soft materials :</i>	<i>4 m<sup>3</sup> / Hour</i>
Biosecurity:	<i>Hygiene, safety, reliability</i>





# DATA SHEET GIBAIR 150 SL/STD 80

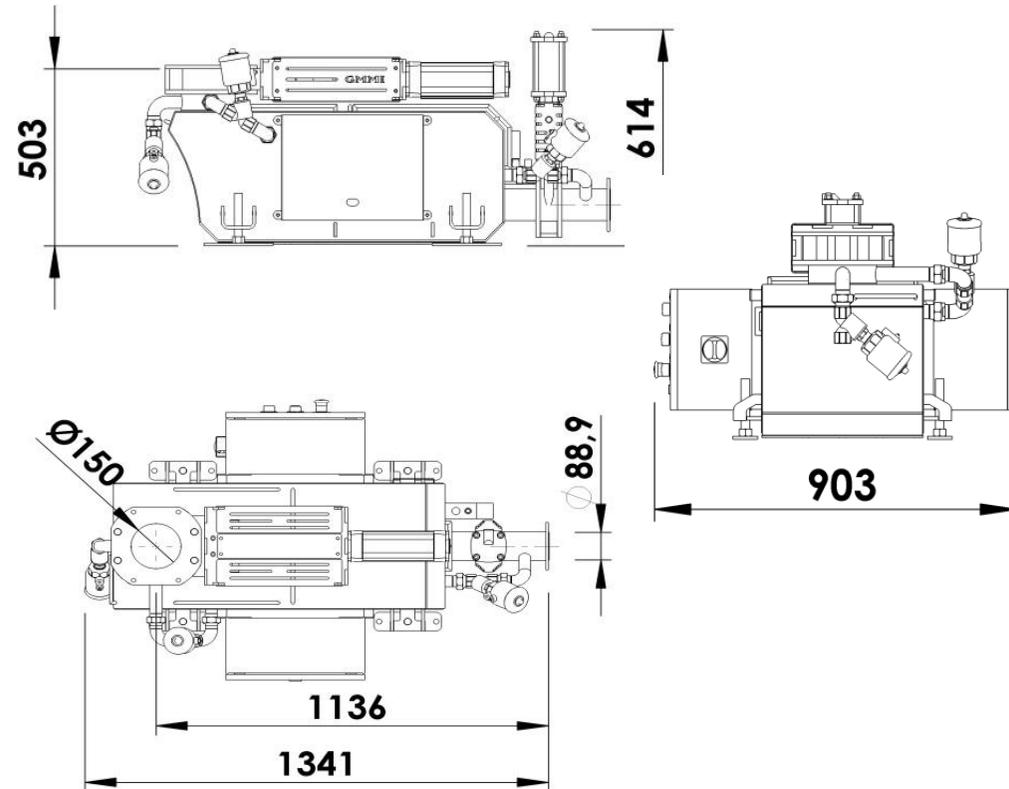


**GIBAIR 150 SL 80**



**GIBAIR 150 STD 80**

Patented transfer system :	<b>GIBAIR 150 SL/STD 80</b>
Type of material :	<p><i>Hard materials</i></p> <p><i>Powdery materials and meals</i></p> <p><i>Soft materials</i></p> <p><i>Viscous materials</i></p> <p><i>Hard + soft materials</i></p> <p><i>Hard + solid materials</i></p>
Compressed air :	<i>Operating pressure 6 bars minimum</i>
Option :	<i>Automatic cleaning</i>
Debit max. according to product :	
<i>Soft materials :</i>	<i>4 m<sup>3</sup> / Hour</i>
<i>Hard materials :</i>	<i>4 m<sup>3</sup> / Hour</i>
Biosecurity:	<i>Hygiene, safety, reliability</i>





# DATA SHEET GIBAIR 200 SL/STD 100

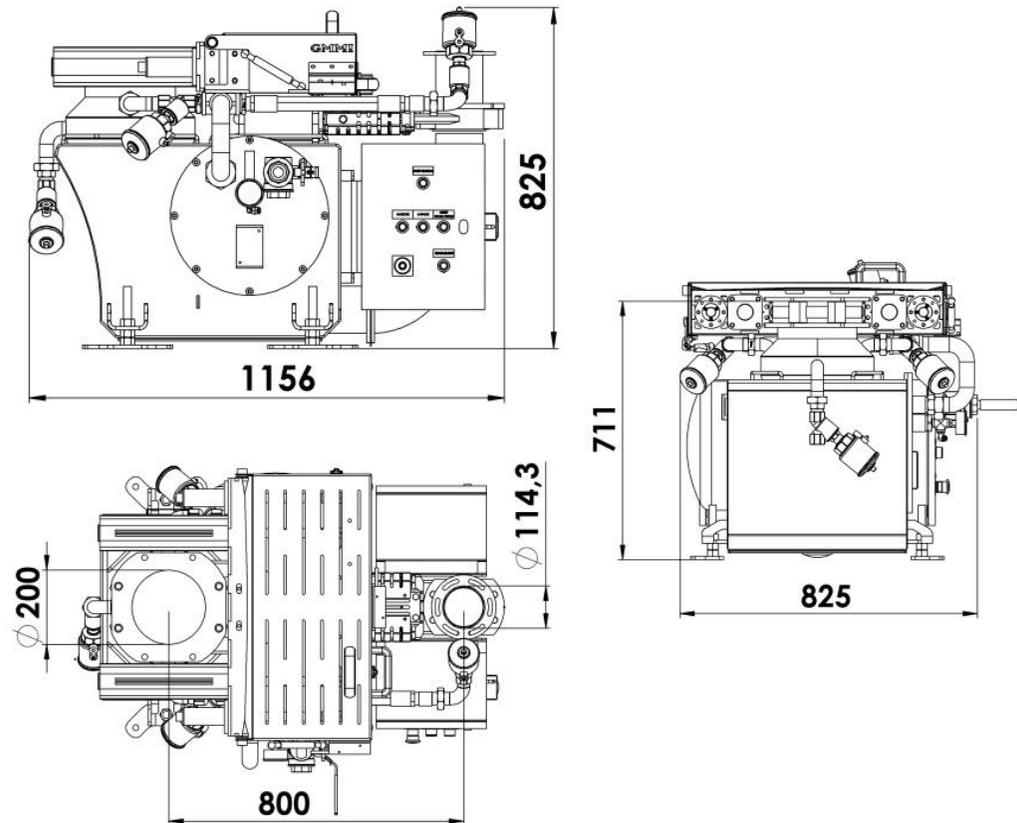


**GIBAIR 200 SL 100**



**GIBAIR 200 STD 100**

<b>Patented transfer system :</b>	<b><i>GIBAIR 200 SL/STD 100</i></b>
<b>Type of material :</b>	<p><i>Soft materials</i></p> <p><i>Hard materials</i></p> <p><i>Powdery materials and meals</i></p> <p><i>Viscous materials</i></p> <p><i>Hard + soft materials</i></p> <p><i>Hard + solid materials</i></p> <p><i>Sauces, cream</i></p>
<b>Compressed air :</b>	<i>Operating pressure 6 bars minimum</i>
<b>Option :</b>	<i>Automatic cleaning</i>
<b>Debit max. according to product :</b>	
<i>Soft materials :</i>	<b><i>4 m<sup>3</sup> / Hour</i></b>
<i>Hard materials :</i>	<b><i>4 m<sup>3</sup> / Hour</i></b>
<b>Biosecurity:</b>	<i>Hygiene, safety, reliability</i>

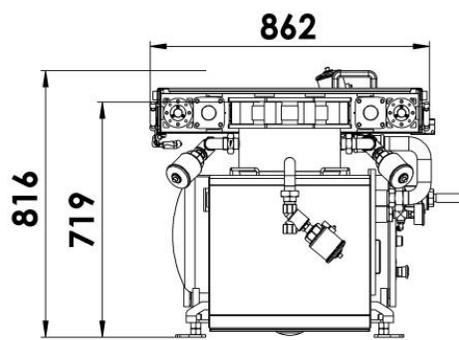
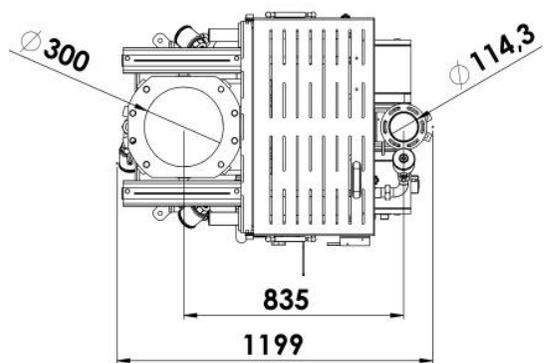
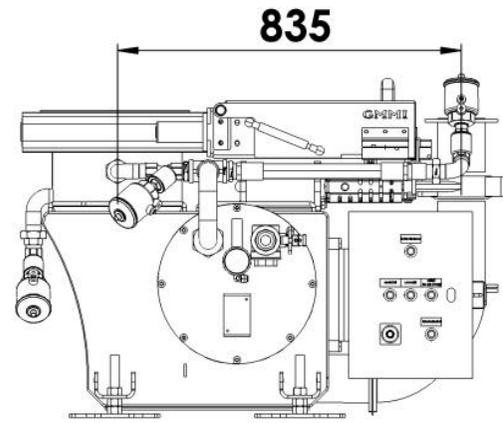




# DATA SHEET GIBAIR 300 SL 100



Patented transfer system :	<i>GIBAIR 300 SL 100</i>
Type of material :	<i>Soft materials, hard materials</i> <i>Powdery materials and meals</i> <i>Viscous materials</i> <i>Hard + soft materials</i> <i>Hard + solid materials</i> <i>Sauces, cream</i> <i>Defromable plastics and packaging</i>
Compressed air :	<i>Operating pressure 6 bars minimum</i>
Option :	<i>Automatic cleaning</i>
Debit max. according to product :	
<i>Soft materials :</i>	<i>7 m<sup>3</sup> / Hour</i>
<i>Hard materials :</i>	<i>3 to 5 m<sup>3</sup> / Hour</i>
Biosecurity:	<i>Hygiene, safety, reliability</i>





# DATA SHEET GIBAIR 300 SL/STD 125

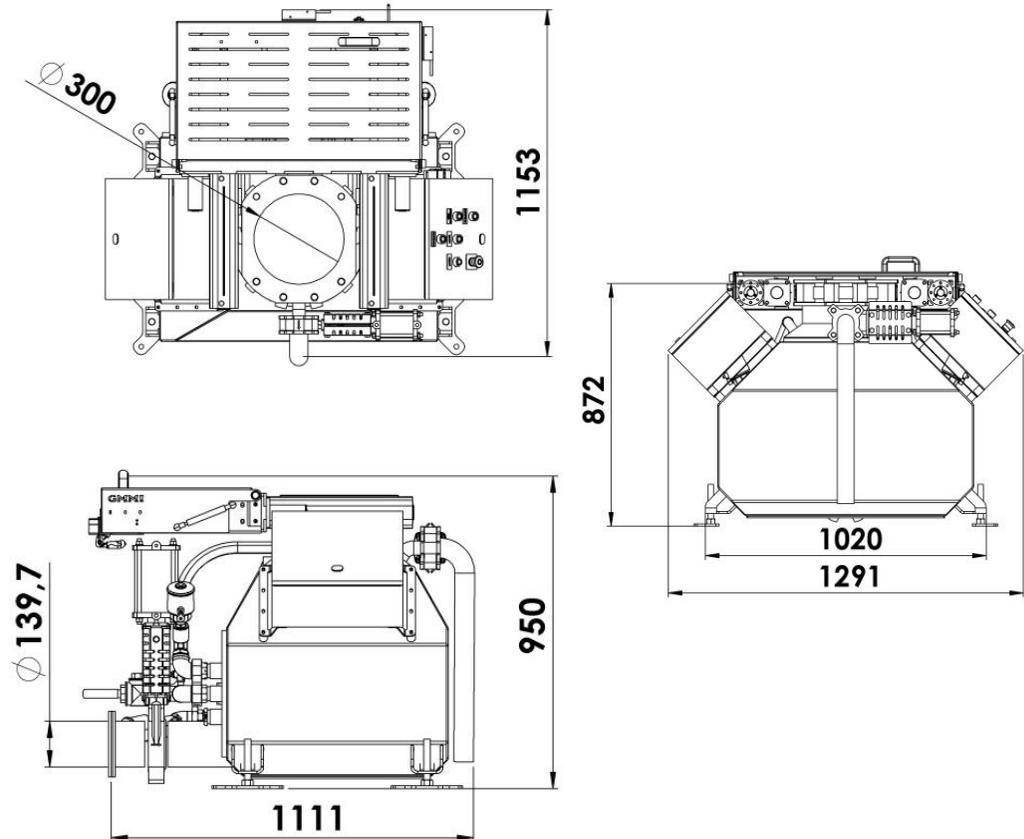


**GIBAIR 300 SL 125**



**GIBAIR 300 STD 125**

<b>Patented transfer system :</b>	<b>GIBAIR 300 SL/STD 125</b>
<b>Type of material :</b>	<i>Soft materials, hard materials</i> <i>Powdery materials and meals</i> <i>Viscous materials</i> <i>Hard + soft materials</i> <i>Hard + solid materials</i> <i>Sauces, cream</i> <i>Defromable plastics and packaging</i>
<b>Compressed air :</b>	<i>Operating pressure 6 bars minimum</i>
<b>Option :</b>	<i>Automatic cleaning</i>
<b>Debit max. according to product :</b>	
<i>Soft materials :</i>	<i>13 m<sup>3</sup> / Hour</i>
<i>Hard materials :</i>	<i>3 to 8 m<sup>3</sup> / Hour</i>
<b>Biosecurity:</b>	<i>Hygiene, safety, reliability</i>

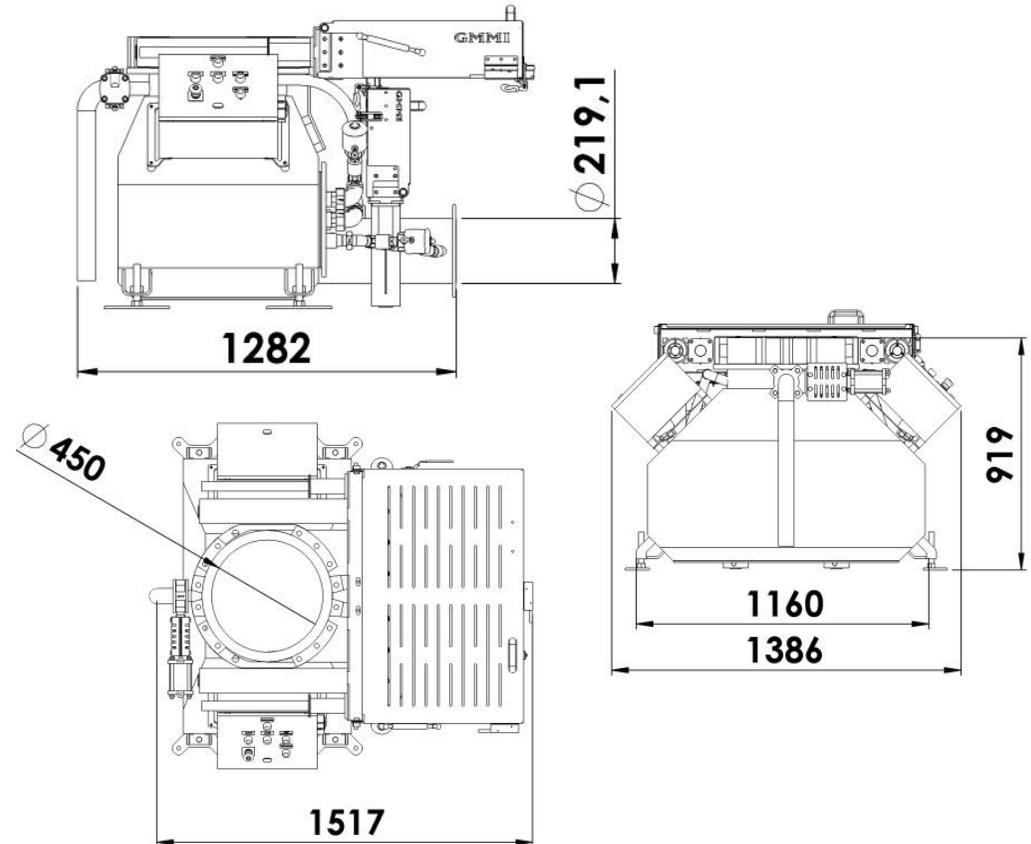




# DATA SHEET GIBAIR 450 SL 200

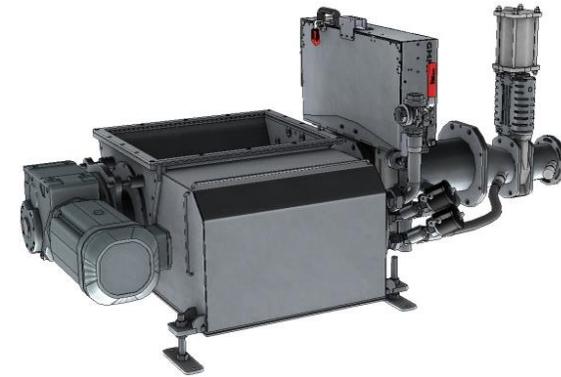
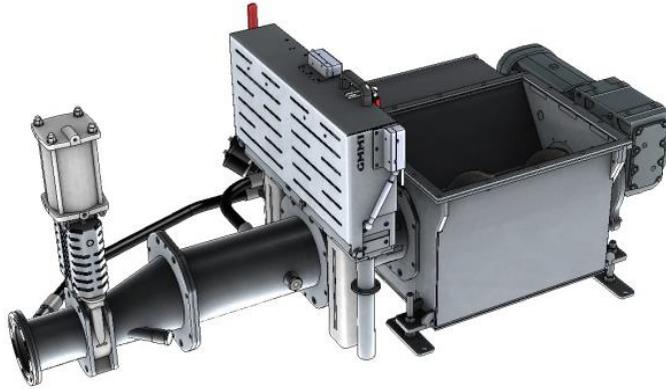


Patented transfer system :	<i>GIBAIR 450 SL 200</i>
Type of material :	<i>Soft materials, hard materials</i> <i>Powdery materials and meals</i> <i>Viscous materials</i> <i>Hard + soft materials</i> <i>Hard + solid materials</i> <i>Sauces, cream</i> <i>Defromable plastics and packaging</i>
Compressed air :	<i>Operating pressure 6 bars minimum</i>
Option :	<i>Automatic cleaning</i>
Debit max. according to product :	
<i>Soft materials :</i>	<i>15 m<sup>3</sup> / Hour</i>
<i>Hard materials :</i>	<i>3 to 8 m<sup>3</sup> / Hour</i>
Biosecurity:	<i>Hygiene, safety, reliability</i>

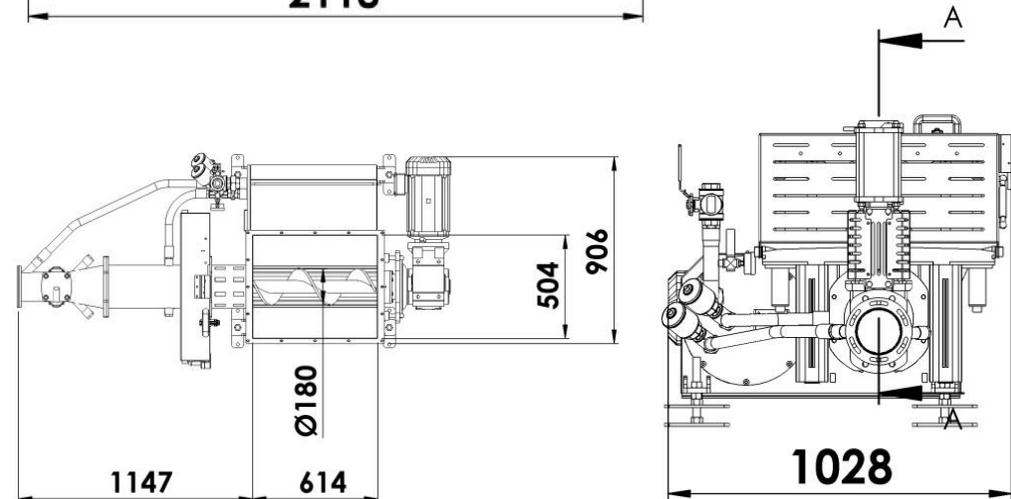
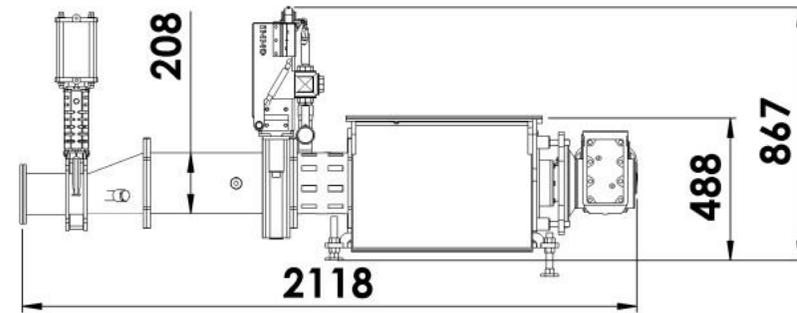




# DATA SHEET GICOMPRESS 200 SL 200

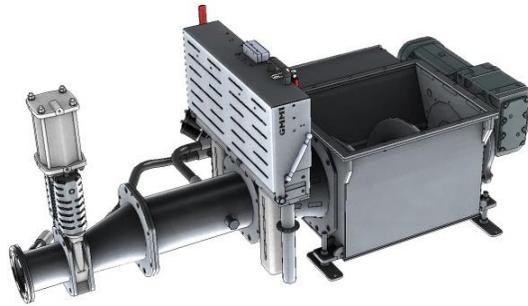


Patented transfer system :	<i>GICOMPRESS 200 SL 200</i>
Type of material :	<i>Hard materials</i> <i>Hard + soft materials</i> <i>Powdery materials and meals</i>
Compressed air :	<i>Operating pressure 6 bars minimum</i>
Option :	<i>Automatic cleaning</i>
Debit max. according to product :	
<i>Hard materials :</i>	<i>1 to 7 m<sup>3</sup> / Hour</i>
Biosecurity:	<i>Hygiene, safety, reliability</i>





# DATA SHEET GICOMPRESS 300 SL 200

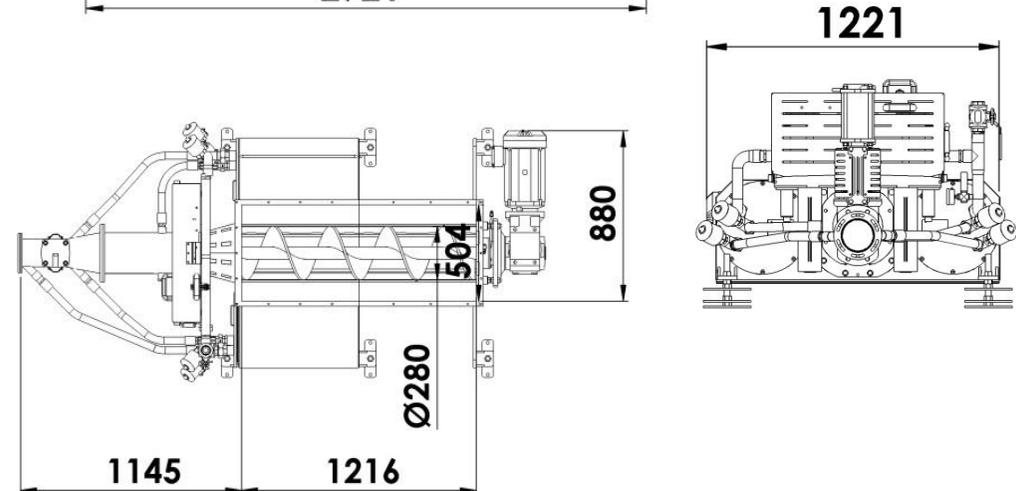
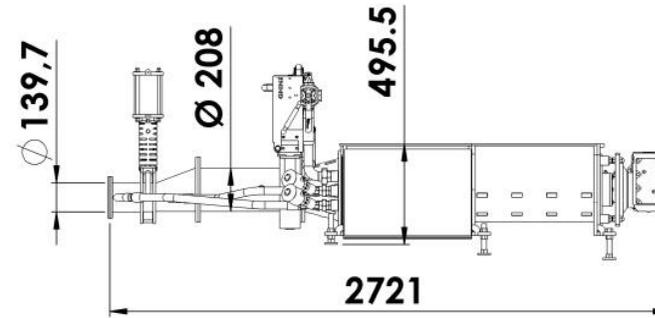


**GIBAIR 300 SL 200**  
**1 BONBONNE**



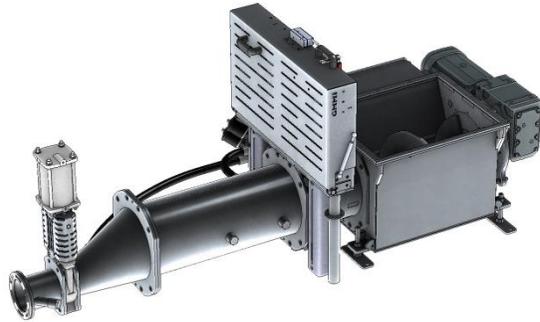
**GIBAIR 300 SL 200**  
**2 BONBONNE**

Patented transfer system :	<i>GICOMPRESS 300 SL 200</i>
Type of material :	<i>Hard materials</i> <i>Hard + soft materials</i> <i>Powdery materials and meals</i>
Compressed air :	<i>Operating pressure 6 bars minimum</i>
Option :	<i>Automatic cleaning</i>
Debit max. according to product :	
<i>Hard materials :</i>	<i>1 to 10 m<sup>3</sup> / Hour</i>
Biosecurity:	<i>Hygiene, safety, reliability</i>





# DATA SHEET GICOMPRESS 300 SL 300

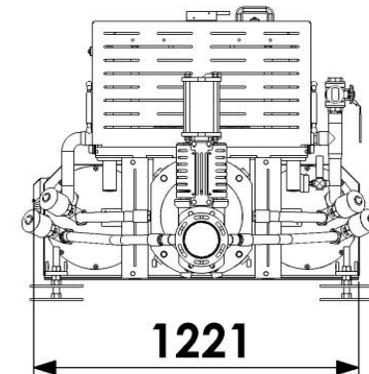
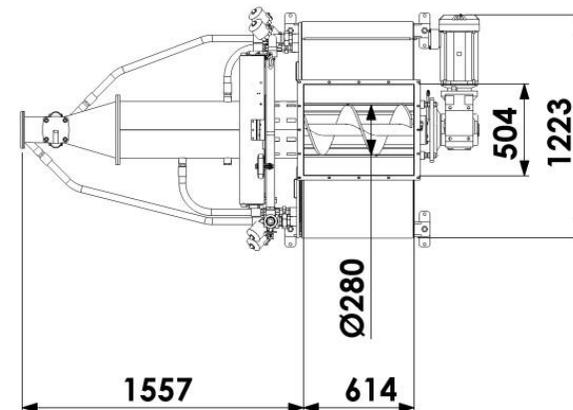
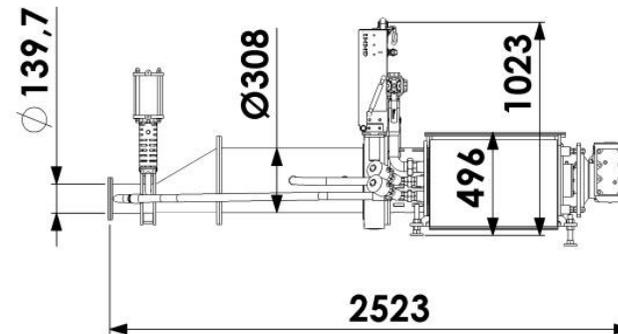


**GIBAIR 300 SL 300**  
**1 BONBONNE**



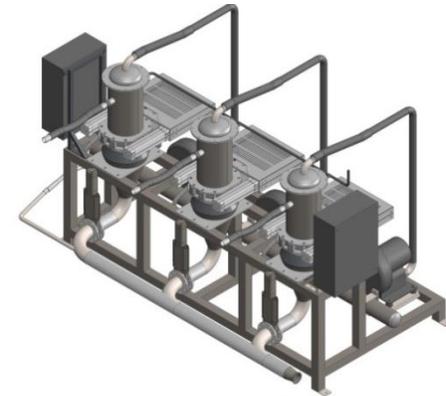
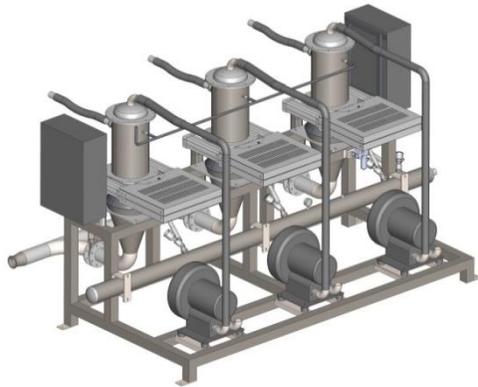
**GIBAIR 300 SL 300**  
**2 BONBONNES**

Patented transfer system :	<b>GICOMPRESS 300 SL 300</b>
Type of material :	<i>Hard materials</i> <i>Hard + soft materials</i> <i>Powdery materials and meals</i>
Compressed air :	<i>Operating pressure 6 bars minimum</i>
Option :	<i>Automatic cleaning</i>
Debit max. according to product :	
<i>Hard materials :</i>	<b>2 to 15 m<sup>3</sup> / Hour</b>
Biosecurity:	<i>Hygiene, safety, reliability</i>

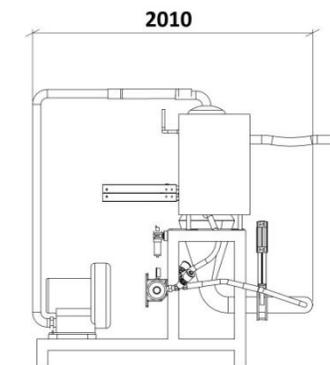
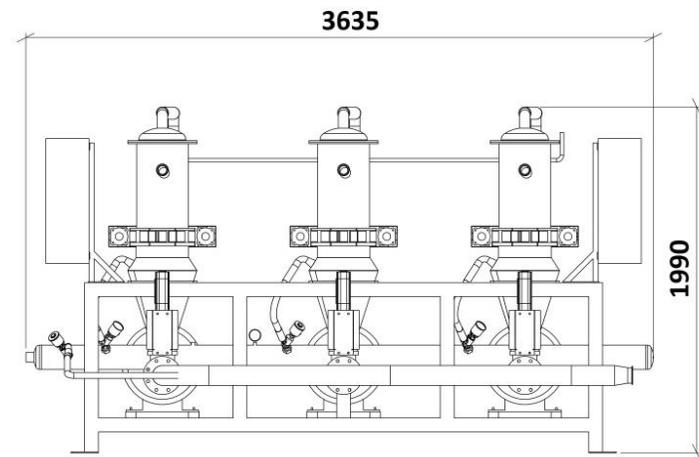




# DATA SHEET GIBAIR SNACK TRIPLE



Patented transfer system :	<b><i>GIBAIR SNACK TRIPLE</i></b>
Type of material :	<b><i>Plastic or natural</i></b> <b><i>Sausage snack films or casings</i></b>
Compressed air :	<b><i>Operating pressure 6 bars minimum</i></b>
Option :	
Debit max. according to product :	
<b><i>Hard materials :</i></b>	<b><i>3 m<sup>3</sup> / Hour</i></b>
Biosecurity:	<b><i>Hygiene, safety, reliability</i></b>





# START OF THE PRODUCT

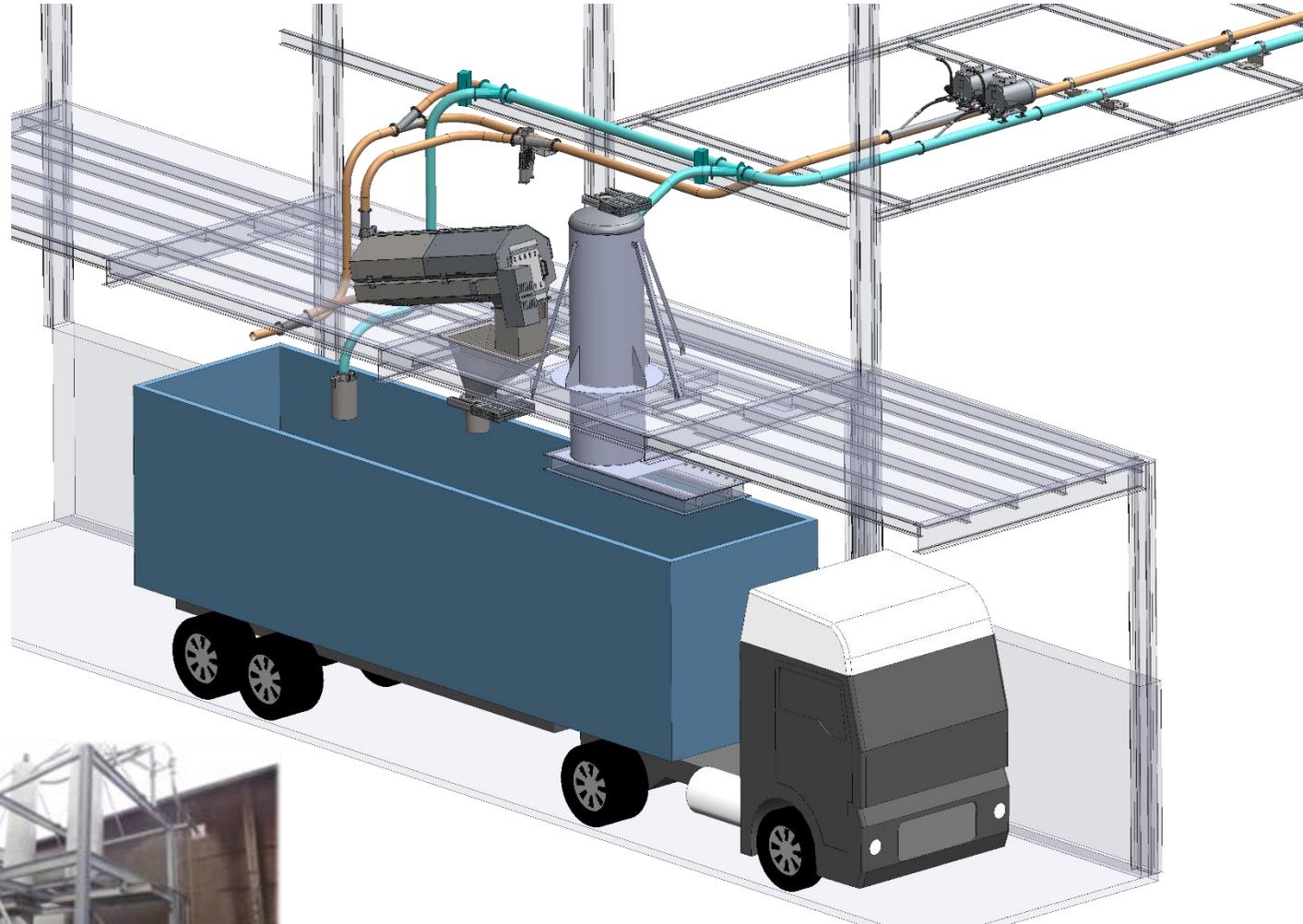
Design of industrial equipment





# ARRIVAL OF THE PRODUCT

Design of industrial equipment

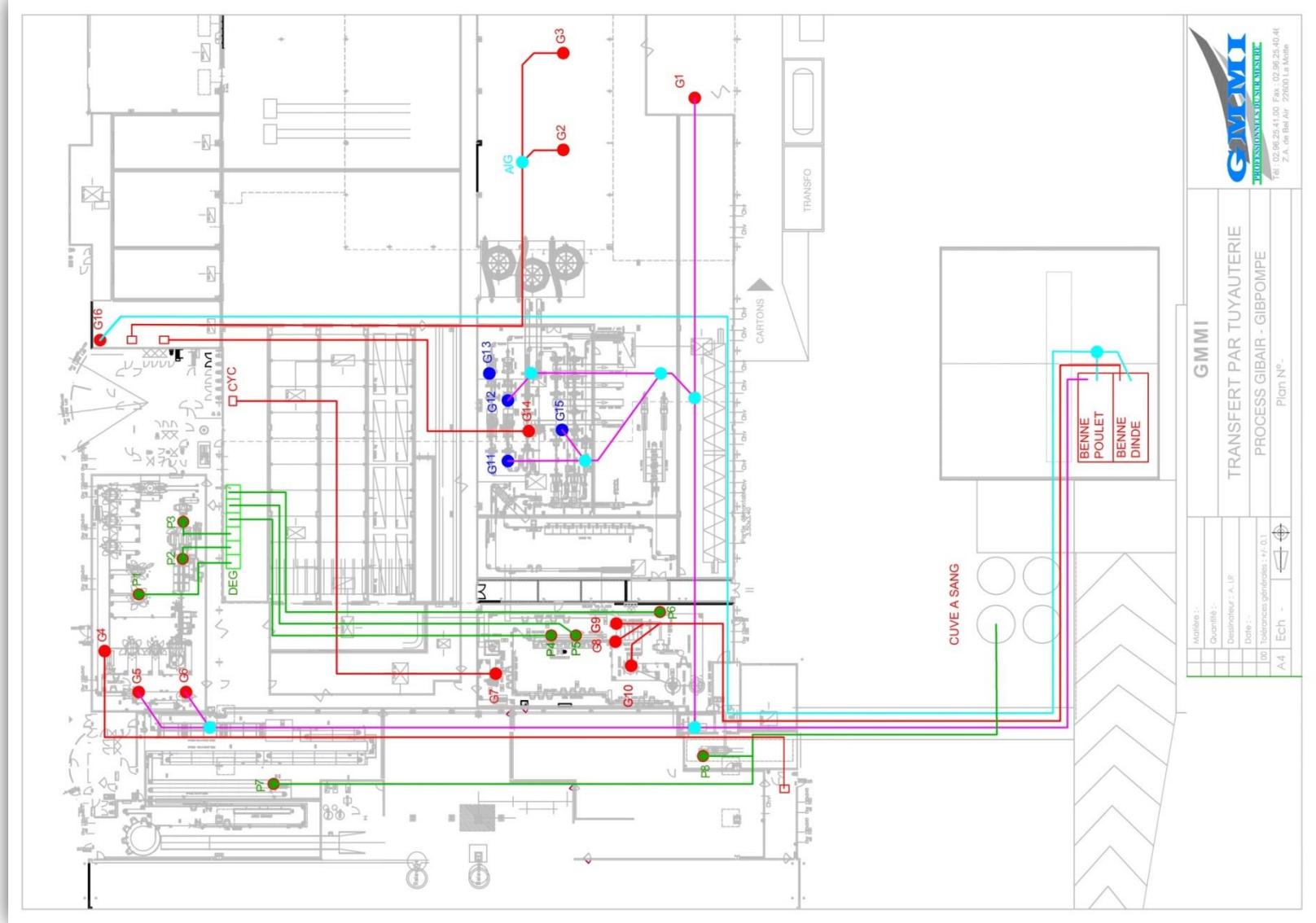




# APPLICATION EXEMPLE

Design of industrial equipment

## PIPE TRANSFER



GMMI	
TRANSFERT PAR TUYAUTERIE	
PROCESS GIBAIR - GIBPOMPE	
Plan N°.	
Intitulé :	
Quantité :	
Dessinateur : A. LE	
Date :	
100 Tolérances géométriques : ± 0.1	
A4 Ech :	



Design of industrial equipment

# LEGEND

		TURKEY	CHICKEN
	G1		MDM WASTE
	G2		CARCASS
	G3		CARCASS
	G4		WHOLE CHICKEN
	G5		HEAD
	G6		FEET
	G7	FEET	
	G8	VISCERA	
	G9	HEAD	
	G10	NECK	
G14		CARCASS	
G16	WASTE- BONES,SKIN, CARCASS, HEAD, NECK, LIVER, DRUMSTICK BACK		
	G11		RUMP
	G12		<i>DOS DEJOINTEUSE</i>
	G13		BREASTS
	G15		WINGS TIPS

		TURKEY	CHICKEN
	P1		NECK
	P2		HEART + LIVER
	P3		GIZZARD
	P4	HEART	
	P5	LIVER	
	P6	GIZZARD	
	P7		BLOOD
	P8	BLOOD	
	DEG	Product reception by screen rape GIBPOMPE	
		SEPARATION OF WATER AND PRODUCT - ERGONOMIC SHELF FOR BOX POSITIONING	
	AIG	PAGE 4 IN GIBAIR CATALOG	
			CYC
CYCLONE FOR REDUCING THE TANGENTIAL ARRIVAL SPEED OF THE PRODUCT, FALL TO LOW POINT			

# GIBAIR : Transfert process Biosecurity

Respect the standards IFS and 50001 (energy)

**4 TIMES LESS ENERGY  
CONSUMPTION  
7 TIMES MORE  
POWERFUL  
2 TIMES LESS NOISY**  
Opposed to vacuum aspiration



	<b>GIBPOMPE</b>	<b>GIBAIR AIR 150 / 80</b>	<b>GIBAIR 150 / 80</b>	<b>GIBAIR 200 / 100</b>	<b>GIBAIR 300 / 100</b>	<b>GIBAIR 300 / 125</b>	<b>GIBAIR 450 / 200</b>
Capacity	1,5 m <sup>3</sup> /h	4 m <sup>3</sup> /h	4 m <sup>3</sup> /h	4 m <sup>3</sup> /h	3 to 7 m <sup>3</sup> /h	3 to 13 m <sup>3</sup> /h	3 to 15 m <sup>3</sup> /h
Air Tank	×	30 L	30 L	45 L	45 L	2 × 45 L	2 × 45 L
Electrical power	230 V + ground + neutral - 50 Hz (10A)	400 V TRI phase + ground - 50 Hz (10A)	400 V TRI phase + ground - 50 Hz (10A)	400 V TRI phase + ground - 50 Hz (10A)	400 V TRI phase + ground - 50 Hz (10A)	400 V TRI phase + ground - 50 Hz (10A)	400 V TRI phase + ground - 50 Hz (10A)
Air consumption	Calculated according to the scope						
CIP-able	In option						
Equipped with cabinet	No	No	Option	Option	Yes	Option	Option
Soundless model		Yes	Yes	Yes	Yes	Yes	Yes
Weight	50	180	250	300	350	550	-
Distance (Horizontal and vertical) lenght	∞	∞	∞	∞	∞	∞	∞

# GIBAIR : Transfert process Biosecurity

Respect the standards IFS and 50001 (energy)

**4 TIMES LESS ENERGY  
CONSUMPTION  
7 TIMES MORE  
POWERFUL  
2 TIMES LESS NOISY**  
Opposed to vacuum aspiration



	<b>GICOMPRESS 200 / 200</b>	<b>GICOMPRESS 300 / 200 1 Tank</b>	<b>GICOMPRESS 300 / 200 2 Tanks</b>	<b>GICOMPRESS 300 / 300 1 Tank</b>	<b>GICOMPRESS 300 / 300 2 Tanks</b>
Capacity	1 to 7 m <sup>3</sup> /h	1 to 10 m <sup>3</sup> /h	1 to 10 m <sup>3</sup> /h	2 to 15 m <sup>3</sup> /h	2 to 15 m <sup>3</sup> /h
Air Tank	1 × 45 L	1 × 45 L	2 × 45 L	1 × 45 L	2 × 45 L
Electrical power	400 V TRI phase + ground 50 Hz (16A)	400 V TRI phase + ground 50 Hz (16A)	400 V TRI phase + ground 50 Hz (16A)	400 V TRI phase + ground 50 Hz (16A)	400 V TRI phase + ground 50 Hz (16A)
Air consumption	Calculated according to the scope				
CIP-able	In option				
Equipped with cabinet	Yes	Yes	Yes	Yes	Yes
Soundless model	Yes	Yes	Yes	Yes	Yes
Weight	500	550	650	700	800
Distance (Horizontal and vertical) length	∞	∞	∞	∞	∞

# Application example

GIBPOMPE

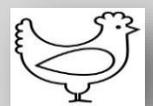
GIBAIR 150

GIBAIR 200

GIBAIR 300

GICOMPRESS

Chicken – Turkey – Duck



MDM				×	×
Carcasses				×	×
Whole chicken				×	×
Head			×	×	×
Feet			×	×	×
Offal	×	×	×	×	×
Breasts			×	×	×
Neck	×	×	×	×	×
Bones				×	×
Skin				×	×
Liver/Heart/Lizzard	×	×	×	×	×
Drumstick			×	×	×
Back		×	×	×	×
Wings Point			×	×	×

Powder



Dry		×	×	×	×
Fat			×	×	×

Cow



Tallow				×	×
Viscera				×	×
Offal				×	×

Pork



Offal			×	×	×
Tallow				×	×
Viscera			×	×	×

Fish



Bones/Head/Offal	×	×	×	×	×
------------------	---	---	---	---	---



Design of industrial equipment

# GIBAIR

## SHIPPING - PACKAGING





Design of industrial equipment

# REFERENCES

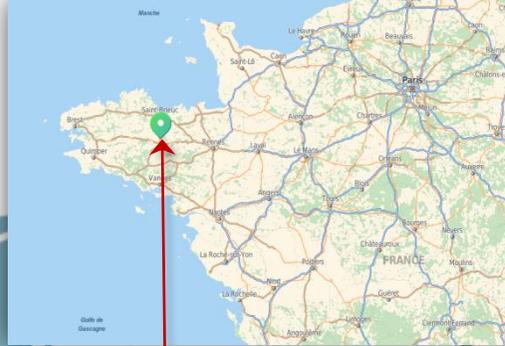
*Some partners who trust us...*





[www.gmmi.fr](http://www.gmmi.fr)

Design of industrial equipment



GMMI  
Z.A. de Bel Air  
22600 LA MOTTE  
Tél. 02 96 25 41 00  
Fax 02 96 25 40 46  
[gmmi@gmmi.fr](mailto:gmmi@gmmi.fr)  
[www.gmmi.fr](http://www.gmmi.fr)  
FRANCE

[www.gmmi.us](http://www.gmmi.us)



**GMIMI**

*Design of industrial equipment*

[www.linkedin.fr/  
gmmi](http://www.linkedin.fr/gmmi)