



ADHESIVE, GLUE AND FLUID APPLICATION SYSTEMS
PRODUCTS CATALOG 2015



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ZATOR Srl

MADE IN ITALY

ZATOR is a company that proudly promote 100% Italian products on national market and abroad. It ranks among the leaders industry in the field of equipment for applying adhesives, glues and fluids.

Years of experience led to the choice that characterizes **ZATOR** philosophy: to produce all the system's components inside the company.

The production process is develop inside the company; after the mechanical design of the components, each parts are manufactured using high precision CNC machine tools, that allows us to produce our standard products range and develop at the same time special systems for customer needs.



Comune di
Cortina d'Ampezzo



passo
carrabile



ricevimento
e spedizione

Zator s.r.l.

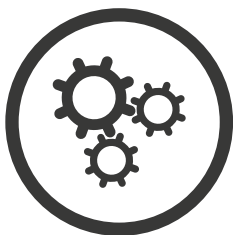
OUT STRONG POINTS



DESIGN // *We design all our products*

The technical office designs and tests the projects uses a 3D CAD software combined with the latest CAM software. Every detail is designed, verified and sent to production for manufacturing.

Our technicians are always looking for new and innovative materials and solutions to improve the quality of our products.



MANUFACTURING // *We manufacture all our products*

The components used to assemble our systems are manufactured in our workshop using high precision CNC machine tools. We also produce special parts or changes required by our customers.



QUALITY CONTROL // *We check all our products*

All components are checked with high precision instruments by our skilled technicians during the production and tested on testbeds before assembly.



SELLING // *We sell all over the world*

Zator sells its products directly and through agents or representatives in Italy and abroad. Our technical sales are able to recommend the right product for each application.



AFTER SALES SERVICE // *Always at your side*

The after sales service is integral part of the sales philosophy of Zator: a total support from setting to maintenance. The Zator's technicians put their experience to their customers.

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GLUE FEED UNITS

DIAPHRAGM PUMP



The glue feed units with diaphragm pump are particularly indicated to supply low viscosity glues, adhesives and fluids.

They are equipped with double diaphragm pneumatic pump 1:1 ratio and anti-stall pneumatic control valve. The pump is assembled on a easily removable plastic bucket lid that simplifies the operations to replace the empty bucket with a full bucket, or also to maintenance and clean the pump.

The pump can be transferred on a full bucket containing water for the washing operations of the plant.

The pump has a bottom valve to prevent the fluid comes out by the suction pipe during the operations of replacing the empty bucket. The glue feed units are equipped with a stainless steel glue filter placed on the intake tube of the pump. It makes a first filtering of the fluid, preventing the aspiration of any possible lumps.

Some versions are assembled with a fine mesh stainless steel filter which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

To control outlet pressure, therefore the glue quantity supplied, it can be assembled with a 1:1 manual stainless steel pressure regulator. Alternatively, if you need to check the pressure in relation to the speed of the machine where the glue feed unit is installed on, is possible to assemble a 1:1 automatic stainless steel pressure regulator controlled by a proportional valve.

A level control float (optional) can be assembled to indicate the minimum fluid level into the bucket.

Application fields	Fluid types
Packaging	Adhesives and glues
Paper converting	Inks
Case maker	Paints
Printing machines	Mastics
Tobacco industry	Low viscosity fluids
Assembly	

A156001

Glue feed unit with double diaphragm pneumatic pump 1:1 ratio equipped with: suction pipe with filter and bottom valve. On request a float level sensor can be installed to indicate the minimum fluid level into the bucket.

Technical data

Pump ratio	1:1
Line air supply	max 6 bar
Working pressure	from 1 to 6 bar
Weight	7,3 Kg



Code	Description
A156001	Diaphragm pump feed unit: 1/2" double diaphragm Polypropylene pump, Polypropylene seats, Santoprene diaphragms and balls. Bucket with lid and suction pipe with filter and bottom valve.



Bottom valve
with filter



Double diaphragm
Polypropylene pump

A157001

Glue feed unit with double diaphragm pneumatic pump 1:1 ratio equipped with: suction pipe, filter and bottom valve, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

On request a float level sensor can be installed to indicate the minimum fluid level into the bucket.

Technical data	
Pump ratio	1:1
Line air supply	max 6 bar
Working pressure	da 1 a 6 bar
Weight	8,3 Kg

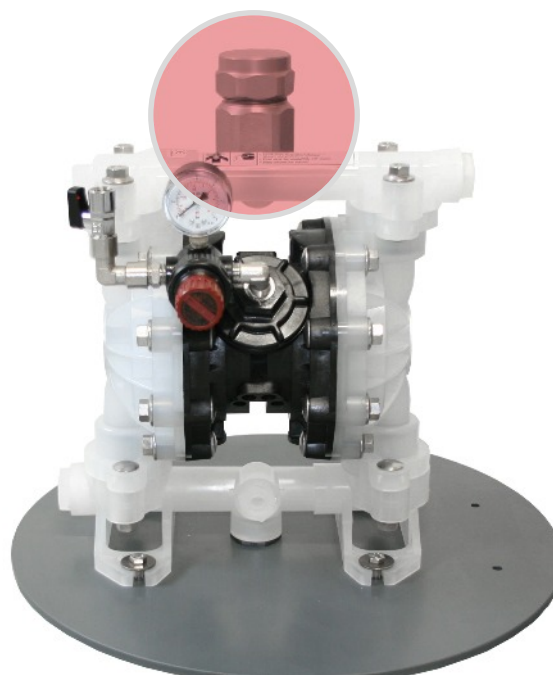
Code	Description
A157001	Diaphragm pump feed unit: 1/2" double diaphragm Polypropylene pump, Polypropylene seats, Santoprene diaphragms and balls. Bucket with lid, suction pipe with filter, bottom valve and stainless steel filter/pulsation dampener.



Stainless steel filter with interchangeable cartridge



Bottom valve with filter



Double diaphragm Polypropylene pump

A158001

Glue feed unit with double diaphragm pneumatic pump 1:1 ratio equipped with: suction pipe with filter and bottom valve, 1:1 manual stainless steel pressure regulator, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid. On request a float level sensor can be installed to indicate the minimum fluid level into the bucket.

Technical data	
Pump ratio	1:1
Line air supply	max 6 bar
Working pressure	from 1 to 6 bar
Weight	10 Kg

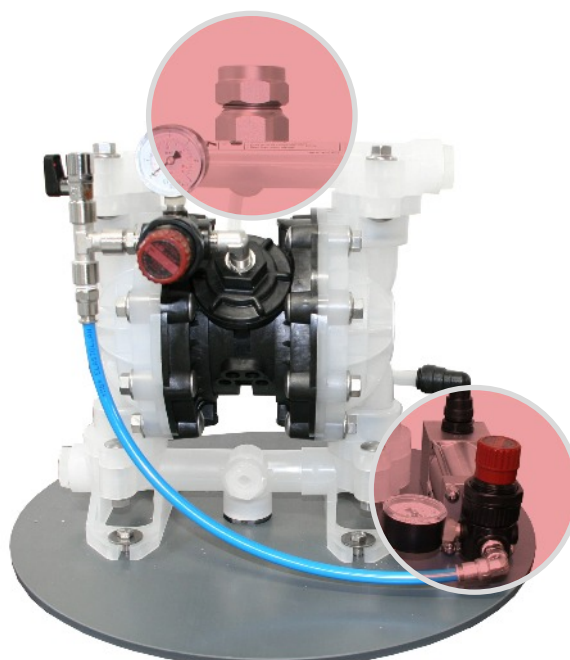
Code	Description
A158001	Diaphragm pump feed unit: 1/2" double diaphragm Polypropylene pump, Polypropylene seats, Santoprene diaphragms and spheres. Bucket with lid, suction pipe with filter, bottom valve, stainless steel filter/pulsation dampener and manual stainless steel pressure regulator.



Stainless steel filter with interchangeable cartridge



Bottom valve with filter



Double diaphragm Polypropylene pump



Manual stainless steel pressure regulator

A159002

Glue feed unit with double diaphragm pneumatic pump 1:1 ratio equipped with: suction pipe with filter and bottom valve, 1:1 automatic stainless steel pressure regulator, proportional valve for automatic control of fluid flow, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

On request a float level sensor can be installed to indicate the minimum fluid level into the bucket.

Technical data	
Pump ratio	1:1
Line air supply	max 6 bar
Proportional valve	0-20 mA
Working pressure	from 1 to 6 bar
Weight	10,5 Kg

Code	Description
A159002	Diaphragm pump feed unit: 1/2" double diaphragm polypropylene pump, Polypropylene seats, Santoprene diaphragms and balls. Bucket with lid, suction pipe with filter, bottom valve, proportional valve, stainless steel filter/pulsation dampener and automatic stainless steel pressure regulator.



Stainless steel filter with interchangeable cartridge



Bottom valve with filter



Pompa a doppia membrana in polipropilene



Proportional valve



Automatic stainless steel pressure regulator

GLUE FEED UNITS

PISTON PUMP



The glue feed units with piston pump are especially indicated to supply medium viscosity glues, adhesives and fluids. They are equipped with pneumatic piston pump 5:1 ratio. The piston pump can be installed on wall mount bracket (optional) or stand on wheels (optional). The bucket containing fluid is connected to the piston pump through a flexible reinforced tube. The inspection and replenishment of the bucket is facilitated by a hinged flap door on the bucket lid.

The pump has a bottom valve to prevent the fluid comes out by the suction pipe during the operations of replacing the empty bucket. The glue feed units are equipped with a stainless steel glue filter placed on the inlet tube of the pump. It makes a first filtering of the fluid, preventing the aspiration of any possible lumps. Some versions are assembled with a fine mesh stainless steel filter which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

To control outlet pressure, therefore the glue quantity supplied, it can be assembled with a 5:1 manual stainless steel pressure regulator. Alternatively, if you need to check the pressure in relation to the speed of the machine where the glue feed unit is installed on, is possible to assemble a 5:1 automatic stainless steel pressure regulator controlled by a proportional valve.

A level control float (optional) can be assembled to indicate the minimum fluid level into the bucket.

Application fields	Fluid types
Packaging	Adhesives and glues
Paper converting	Greases
Case maker	Silicones
Wood industry	Mastics
Tobacco industry	Medium viscosity fluids
Assembly	

A169001

Glue feed unit with pneumatic piston pump 5:1 ratio equipped with: suction pipe with filter and bottom valve, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

On request a float level sensor can be installed to indicate the minimum fluid level into the bucket.

Technical data	
Pump ratio	5:1
Line air supply	max 6 bar
Working pressure	from 1 to 30 bar
Weight	10 Kg

Code	Description
A169001	Piston pump feed unit, available with wall mount bracket (optional) or stand on wheels (optional). Stainless steel piston pump 5:1 ratio. Bucket with lid, suction pipe with filter, bottom valve and stainless steel filter/pulsation dampener.



Bottom valve with filter



Stainless steel filter with interchangeable cartridge



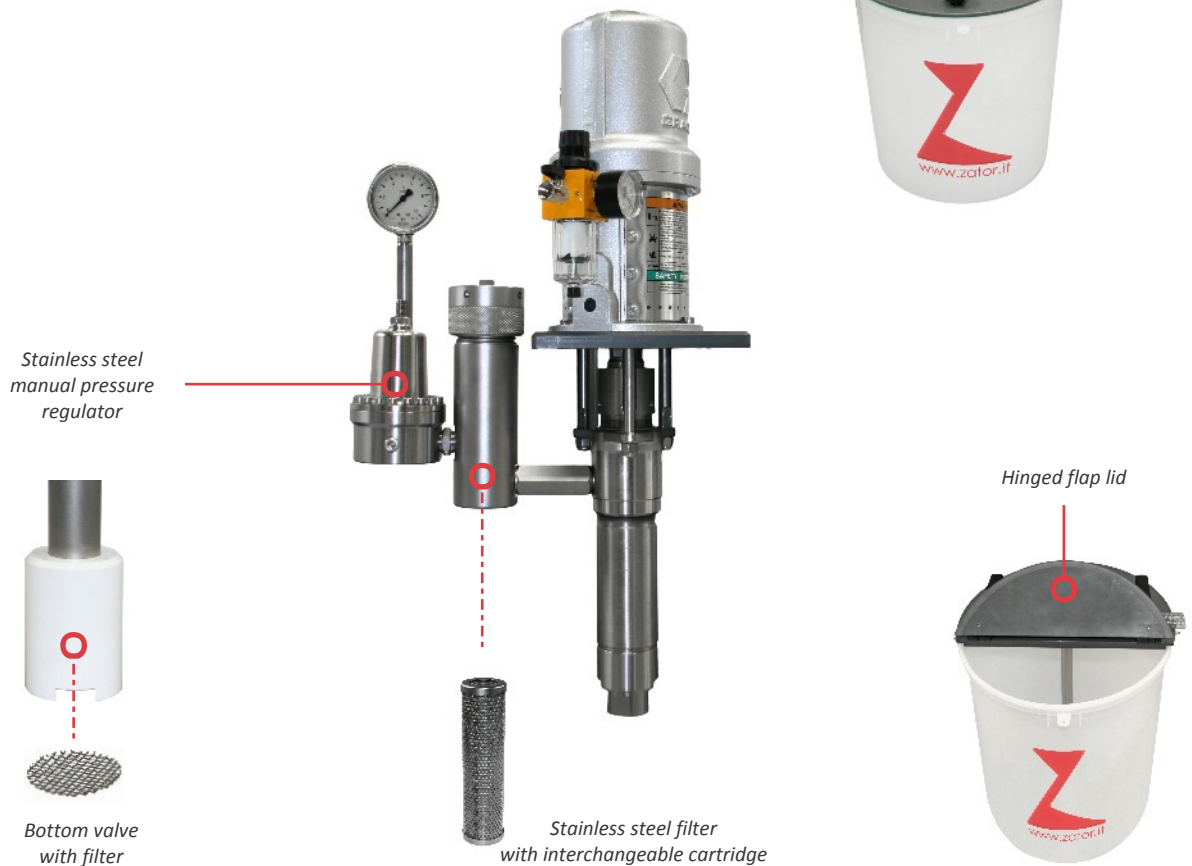
Hinged flap lid

A170001

Glue feed unit with pneumatic piston pump 5:1 ratio equipped with: suction pipe with filter and bottom valve, 5:1 manual stainless steel pressure regulator, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid. On request a float level sensor can be installed to indicate the minimum fluid level into the bucket.

Technical data	
Pump ratio	5:1
Line air supply	max 6 bar
Working pressure	from 1 to 30 bar
Weight	13 Kg

Code	Description
A170001	Piston pump feed unit, available with wall mount bracket (optional) or stand on wheels (optional). Stainless steel piston pump 5:1 ratio. Bucket with lid, suction pipe with filter, bottom valve, stainless steel filter/pulsation dampener and 5:1 manual stainless steel pressure regulator.



A171001

Glue feed unit with pneumatic piston pump 5:1 ratio equipped with: suction pipe with filter and bottom valve, 5:1 automatic stainless steel pressure regulator, proportional valve for automatic control of fluid flow, stainless steel filter/pulsation dampener which has the double function to drop the pulsations of the pump and filter any possible impurities contained into the aspirated fluid.

On request a float level sensor can be installed to indicate the minimum fluid level into the bucket.

Technical data	
Pump ratio	5:1
Line air supply	max 6 bar
Proportional valve	0-20 mA
Working pressure	from 1 to 30 bar
Weight	13 Kg

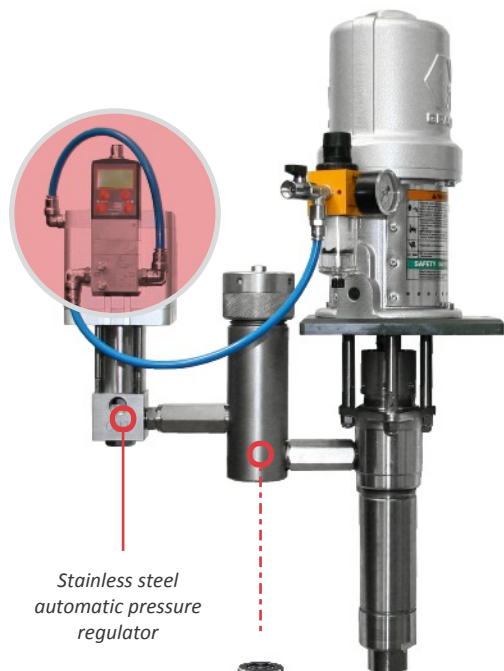
Code	Description
A171001	Piston pump feed unit, available with wall mount bracket (optional) or stand on wheels (optional). Stainless steel piston pump 5:1 ratio. Bucket with lid, suction pipe with filter, bottom valve, proportional valve, stainless steel filter/pulsation dampener and 5:1 automatic stainless steel pressure regulator.



Proportional valve



Bottom valve with filter



Stainless steel automatic pressure regulator



Stainless steel filter with interchangeable cartridge



Hinged flap lid



GLUE FEED UNITS

LIGHT PRESSURE TANK





The Light pressure tanks are particularly indicated to supply low viscosity glues, adhesives and fluids. They are made in stainless steel. A wide opening allow an easy filling of the tank. The maximum working pressure is 3 bar. The capacity of the tank are 9 or 18 liters. In output is possible to install a fine mesh stainless steel filter which has the function to filter any possible impurities contained into the aspirated fluid.

Application fields
Packaging
Paper converting
Case maker
Wood industry
Assembly

Fluid types
Adhesives and glues
Inks
Paints
Low viscosity fluids

Code	Description
A12900300	Stainless steel pressure tank - Light version 9 liters capacity 3 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve



Code	Description
A12900100	Stainless steel pressure tank - Light version 18 liters capacity 3 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve

Code	Description
A12906300	Stainless steel pressure tank - Light version 9 liters capacity 3 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve Stainless steel filter

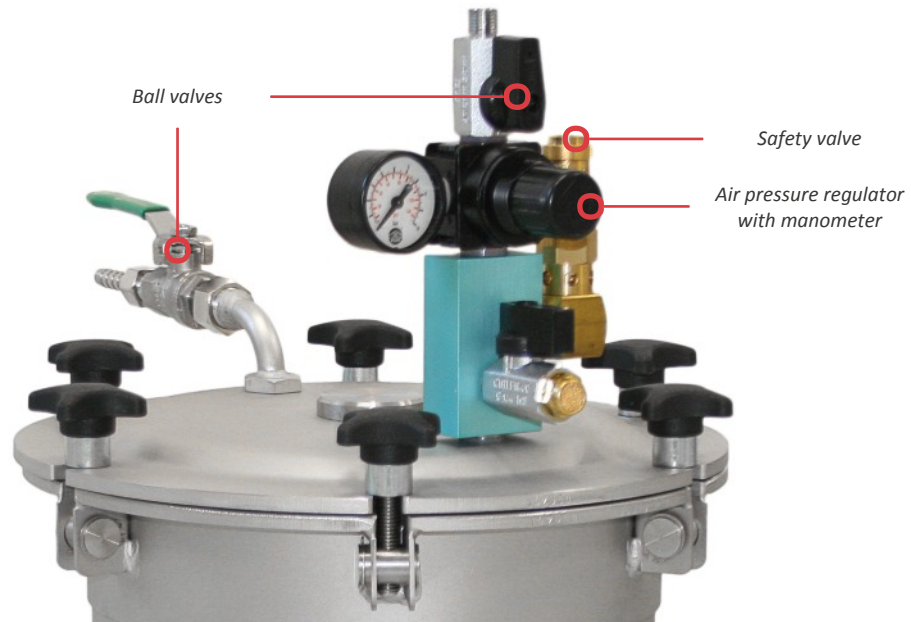


Code	Description
A12906100	Stainless steel pressure tank - Light version 18 liters capacity 3 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve Stainless steel filter

GLUE FEED UNITS

LDG - MDG PRESSURE TANKS





The LDG and MDG pressure tanks are entirely stainless steel made. The maximum working pressure is 6 bar. The capacities of the tank are 1 liter up to 42,5 liters. They are assembled with pressure regulator with manometer, inlet/outlet ball valves and safety valve. The tank lid is completely removable, allowing the inspection and the replenishment of the tank.

They can be equipped with a fine mesh stainless steel filter on output, which has the function to filter any possible impurities contained into the aspirated fluid. Each models have a CE certificate.

Application fields	Fluid types	Optionals
Packaging	Adhesives and glues	Fluid filter
Paper converting	Inks	Fluid level sensor
Case maker	Paints	Heating jacket
Wood industry		
Assembly	Low viscosity fluids	Agitator

Code	Description
V4405160013	Stainless steel pressure tank - LDG5 version 3,5 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate
V4405170013	Stainless steel pressure tank - LDG5 version 3,5 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate Fluid level sensor



Code	Description
V4410160013	Stainless steel pressure tank - LDG10 version 9 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate
V4410170013	Stainless steel pressure tank - LDG10 version 9 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate Fluid level sensor

Code	Description
V4420160013	Stainless steel pressure tank - LDG20 version 15 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate
V4420170013	Stainless steel pressure tank - LDG20 version 15 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate Fluid level sensor

Code	Description
V4012160013	Stainless steel pressure tank - MDG1 version 1 liter capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate
V4012170013	Stainless steel pressure tank - MDG1 version 1 liter capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate Fluid level sensor



Code	Description
V4432160013	Stainless steel pressure tank - MDG22 version 19,5 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate
V4432170013	Stainless steel pressure tank - MDG22 version 19,5 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate Fluid level sensor

Code	Description
V4424160013	Stainless steel pressure tank - MDG45 version 42,5 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate
V4432170013	Stainless steel pressure tank - MDG45 version 42,5 liters capacity 6 bar max pressure Air pressure regulator with manometer Inlet/outlet ball valves Safety valve CE certificate Fluid level sensor

CONTROLS

MICROPROCESSOR CONTROL



The microprocessor controls have been designed and manufactured to be used on different types of high speed machines. Their design and versatility makes them suitable for each application required the glue guns control.

The microprocessor controls can store up to 99 different programs and can handle up to 96 independent guns (or channels). Each of them are able to perform four or eight different glue lines.

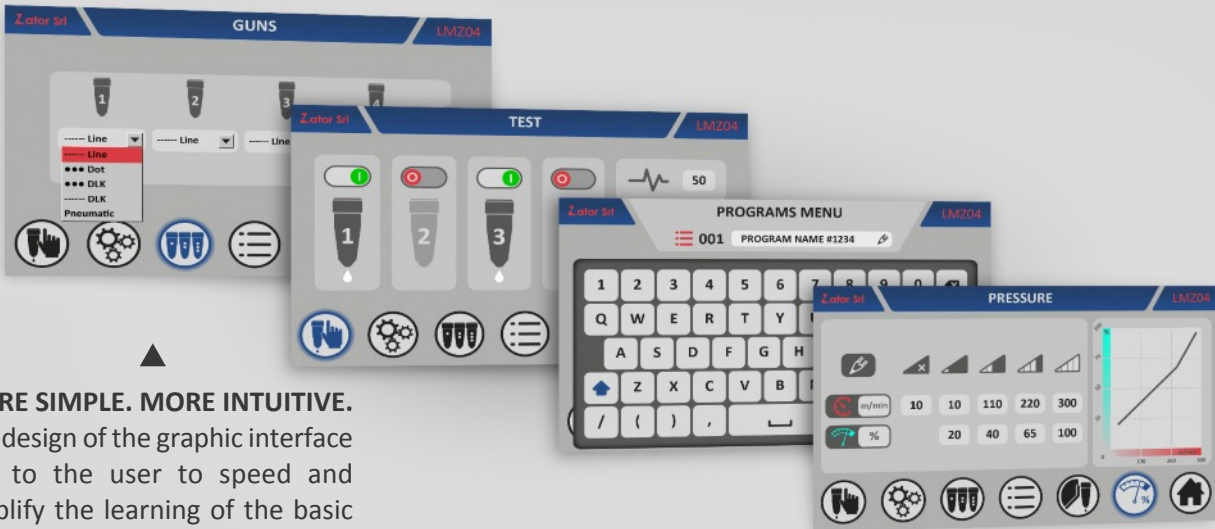
The guns can work in lines or dots mode, a programmable function allow to switch automatically from dot to line at programmed speed.

The design of the control can be used with two different modes:

- encoder mode: with the use of a machine speed detector (encoder) whenever machines may run at variable speeds;
- timer mode: without encoder, if the production machines are designed to run at constant speed.

Application fields	Working modes	Programmable versions
Packaging		
Paper converting	Encoder	Packaging
Case maker		
Printing machine		
Tobacco and wood industry		
Assembly	Timer	Collator
Other		

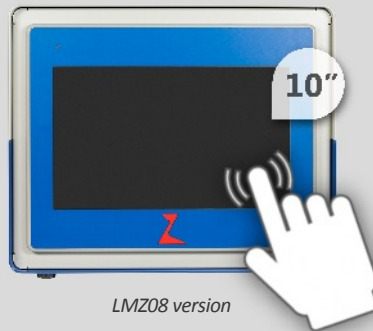
Features



MORE SIMPLE. MORE INTUITIVE.
 The design of the graphic interface lets to the user to speed and simplify the learning of the basic functions of the instrument.



LMZ02 & LMZ04 version



LMZ08 version

TOUCH SCREEN PANEL
 You won't need any other devices to operate on the instrument. Just use your fingers.

MULTI-LANGUAGES TEXT

Select your desired language and start programming.



3D VIEW PROGRAMMING MENU
 You can keep an eye on all the glue patterns data, simplifying the reading and preventing possible mistakes during the programming.



Code	Description
LMZ02	<ul style="list-style-type: none"> • Programmable configuration in packaging or collator version • 99 programs stored • Application precision ± 1 mm @ 700 mt/min • Working modes: encoder or timer mode • 7" Touch screen panel TFT - 800x480 • Power supply 220 Volt, 50 Hz <p>Inputs:</p> <ul style="list-style-type: none"> • 2 photocells, 1 encoder • 1 glue reset, 1 glue level sensor <p>Outputs:</p> <ul style="list-style-type: none"> • 2 independent channels (gun) • 1 nozzle shutter • 1 proportional valve control (0-20 mA) • 1 level glue output • 2 optional free outputs



Code	Description
LMZ04	<ul style="list-style-type: none"> • Programmable configuration in packaging or collator version • 99 programs stored • Application precision ± 1 mm @ 700 mt/min • Working modes: encoder or timer mode • 7" Touch screen panel TFT - 800x480 • Power supply 220 Volt, 50 Hz <p>Inputs:</p> <ul style="list-style-type: none"> • 4 photocells, 1 encoder • 1 glue reset, 1 glue level sensor <p>Outputs:</p> <ul style="list-style-type: none"> • 4 independent channels (gun) • 1 nozzle shutter • 1 proportional valve control (0-20 mA) • 1 level glue output • 2 optional free outputs



Code	Description
LMZ08	<ul style="list-style-type: none"> • Programmable configuration in packaging or collator version • 50 programs stored • Application precision ± 1 mm @ 700 mt/min • Working modes: encoder or timer mode • 10" Touch screen panel TFT - 800x480 • Power supply 220 Volt, 50 Hz <p>Inputs:</p> <ul style="list-style-type: none"> • 8 photocells, 1 encoder • 1 glue reset, 1 glue level sensor <p>Outputs:</p> <ul style="list-style-type: none"> • 8 independent channels (gun) • 1 nozzle shutter • 1 proportional valve control (0-20 mA) • 1 level glue output • 2 optional free outputs



ELECTROMAGNETIC GUNS

DLK GUNS






Electromagnetic guns are designed to dispense glue or other fluids at high frequency. These guns are versatile and it can be used with different types of low/medium viscosity glues or fluids.

The main quality of these type guns is the very high working frequency of dots or lines applications, without contact, where high frequency and precision is required.

No air supply is needed, the reliability of these guns grant a long working life without any service.

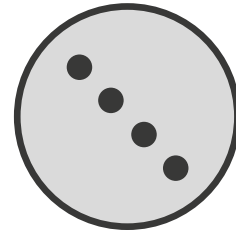
At the moment they are the most advanced technical solution for glue dispensing guns.

Application fields	Fluid types	Application types
Packaging Paper converting Case maker Printing machines Tobacco industry Assembly	Adhesives and glues Inks Paints Mastics Low viscosity fluids	Dots  Dots and lines  Spray 

DLK22KV

Electromagnetic gun for high speed glue dots application for low and medium viscosity glues, adhesives and fluids. Full stainless steel gun, zero cavity short nozzle (KV), needle with ceramic ball. The micrometric adjustment allows a fine control of the dot size.

Technical data	
Available nozzle diameters	from 0,3 to 1,5 mm
Gun body	Stainless steel
Maximum fluid viscosity	~ 2500 mPas
Maximum working pressure	25 bar
Maximum working frequency	350 dots/sec.
Coil	6 or 24 Volt
Weight	320 gr



Dots

Code	Description
B2755XX00	Electromagnetic gun DLK22KV 24 Volt
B2760XX00	Electromagnetic gun DLK22KV 6 Volt

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



DLK22KV 6V 24V 0,3mm 0,5mm 0,8mm 1,0mm 1,2mm 1,5mm



Zero cavity short nozzle KV



Micrometric adjustment



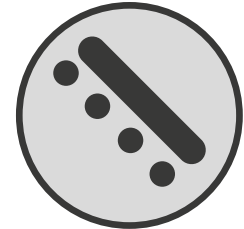
Needle with ceramic ball

DLK22LV

Electromagnetic gun for high speed glue dots and lines application for low and medium viscosity glues, adhesives and fluids. Full stainless steel gun, zero cavity long nozzle (LV), needle with ceramic ball. The micrometric adjustment allows a fine control of the dot and line size.

Technical data

Available nozzle diameters	from 0,3 to 1,8 mm
Gun body	Stainless steel
Maximum fluid viscosity	~ 2500 mPas
Maximum working pressure	25 bar
Maximum working frequency	350 dots/sec.
Coil	6, 12 or 24 Volt
Weight	330 gr



Dots and lines

Code

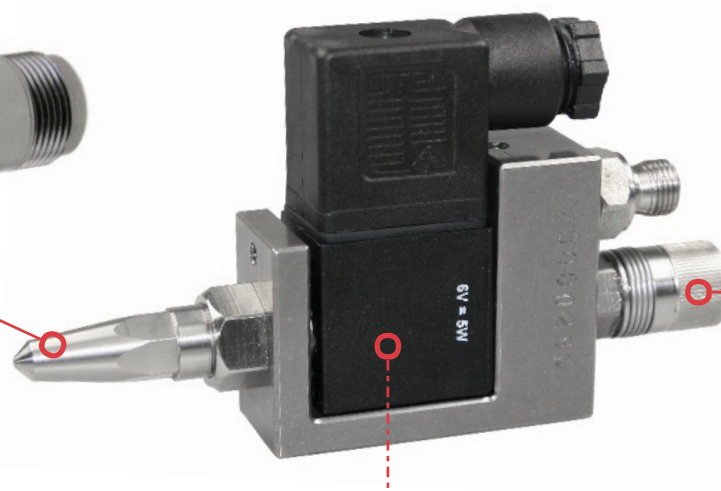
Description

B2765XX00	Electromagnetic gun DLK22LV 24 Volt
B2780XX00	Electromagnetic gun DLK22LV 12 Volt
B2770XX00	Electromagnetic gun DLK22LV 6 Volt

Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,8 mm



Zero cavity
long nozzle LV



Micrometric
adjustment

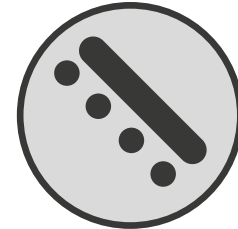


Needle with ceramic ball

DLK22T

Electromagnetic gun for high speed glue dots and lines application for low and medium viscosity glues, adhesives and fluids. Full stainless steel gun and zero cavity long nozzle (LV) available with: antiabrasive ceramic tip for “contact” application or with tungsten carbide tip for abrasive fluids. The gun is also equipped with needle with ceramic ball and micrometric adjustment which allows a fine control of the dot and line size.

Technical data	
Available nozzle diameters	from 0,2 to 1,5 mm
Gun body	Stainless steel
Maximum fluid viscosity	~ 2500 mPas
Maximum working pressure	25 bar
Maximum working frequency	350 dots/sec.
Coil	6 or 24 Volt
Weight	330 gr



Dots and lines

Code	Description
B2766XX00	Electromagnetic gun DLK22T 24 Volt Nozzle with tungsten carbide tip
B2767XX00	Electromagnetic gun DLK22T 24 Volt Nozzle with ceramic tip
B2771XX00	Electromagnetic gun DLK22T 6 Volt Nozzle with tungsten carbide tip
B2772XX00	Electromagnetic gun DLK22T 6 Volt Nozzle with ceramic tip



*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,2 to 1,5 mm*



Tungsten carbide tip

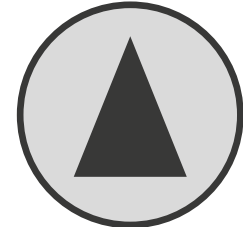
Ceramic tip

DLK22S

Electromagnetic gun for high speed glue spray application for low and medium viscosity glues, adhesives and fluids. Full stainless steel gun. The gun is equipped with self-cleaning needle. The micrometric adjustment allows a fine control of the glue quantity. Stainless steel spray nozzle and air caps with anti-stick coating.

Technical data

Available nozzle diameters	from 0,3 to 1,5 mm
Gun body	Stainless steel
Maximum fluid viscosity	~ 2000 mPas
Maximum working pressure	8 bar
Maximum working frequency	350 dots/sec.
Coil	6 or 24 Volt
Weight	340 gr



Spray

Code

Description

B2748XX00	Electromagnetic spray gun DLK22S 24 V round cap
B2749XX00	Electromagnetic spray gun DLK22S 24 V flat cap
B2750XX00	Electromagnetic spray gun DLK22S 6 V round cap
B2751XX00	Electromagnetic spray gun DLK22S 6 V flat cap

Replace XX value with nozzle diameter desired
Available nozzle diameters 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm



Round cap

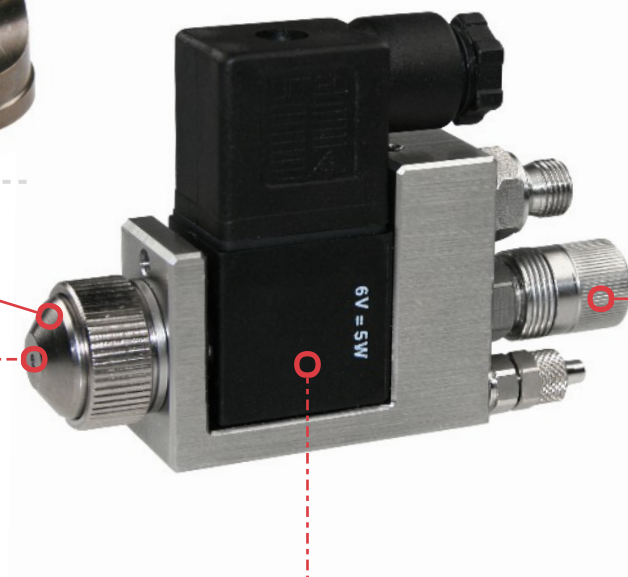
Flat cap



Air caps with anti-stick coating



Stainless steel nozzle



Micrometric adjustment



Self-cleaning needle

ELECTRO-PNEUMATIC SPRAY GUNS


MZF - MMZF - MZS GUNS



Electro-pneumatic spray gun used to spray different type of glues, adhesives and fluids.

Strength and compact size, they have the particularity of nozzle and cap with anti-stick coating and a self-cleaning needle which ensure the long operation time of the gun.

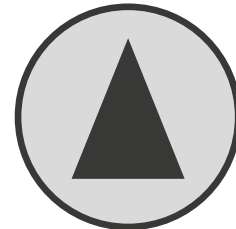
Available also with a micrometric adjustment that allows a fine control of the glue quantity.

Application fields	Fluid types	Application types
Packaging Paper converting Case maker Wood industry Assembly	Adhesives and glues Inks Paints Lubrificants Low viscosity fluids	Spray 

MZF

Spray gun for low viscosity glues, adhesives and fluids. Its design and versatility make it suitable for every application requiring the use of spray guns. The gun is pneumatically controlled by external solenoid valves. It's strength and compact size. It has the particularity of nozzle and the cap with anti-stick coating. The micrometric adjustment allows a fine control of the glue quantity.

Technical data	
Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	minimum 5 bar
Drive type	simple action
Maximum working pressure	6 bar
Nebulization pressure	from 0,5 to 2,5 bar
Weight	450 g



Spray

Round cap



Flat cap



Air caps with anti-stick coating

Screw



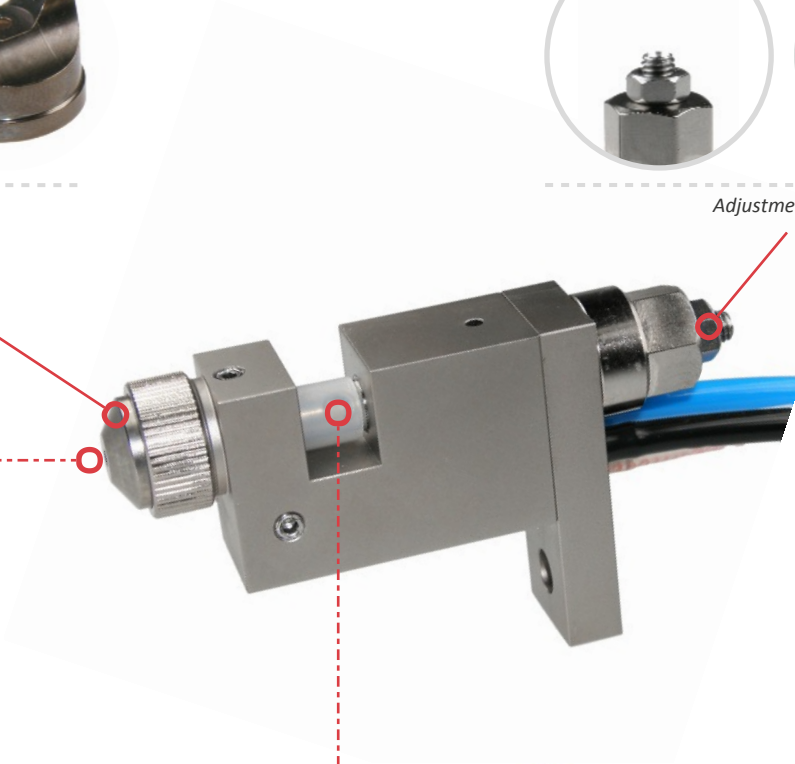
Micrometric



Adjustment type



Zero cavity nozzle with anti-stick coating



Self-cleaning needle

Code	Description
C3611XX00	Spray gun MZF060XXNR round cap

*Replace XX value with nozzle diameter desired
Available nozzle diameters 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



Code	Description
C3612XX00	Spray gun MZF070XXNR flat cap

*Replace XX value with nozzle diameter desired
Available nozzle diameters 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



Code	Description
C3613XX00	Spray gun MZF060XXRM round cap

*Replace XX value with nozzle diameter desired
Available nozzle diameters 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



Code	Description
C3614XX00	Pistola spray MZF070XXRM flat cap

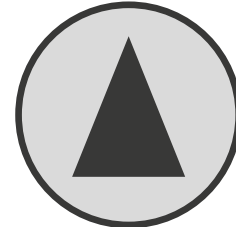
*Replace XX value with nozzle diameter desired
Available nozzle diameters 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



MMZF

Compact size spray gun for low viscosity glues, adhesives and fluids. Its design and versatility make it suitable for every application requiring the use of micro-spray guns. The gun is pneumatically controlled by external solenoid valves. It's strong and very compact size. It has the particularity of nozzle and the cap with anti-stick coating. The micrometric adjustment allows a fine control of the glue quantity.

Technical data	
Available nozzle diameters	from 0,5 to 1,5 mm
Air pressure control	minimum 5 bar
Drive type	simple action
Maximum working pressure	6 bar
Nebulization pressure	from 0,5 to 2,5 bar
Weight	270 g



Spray

Code	Description
MMZF01XXRM	Spray gun MMZF XX round cap

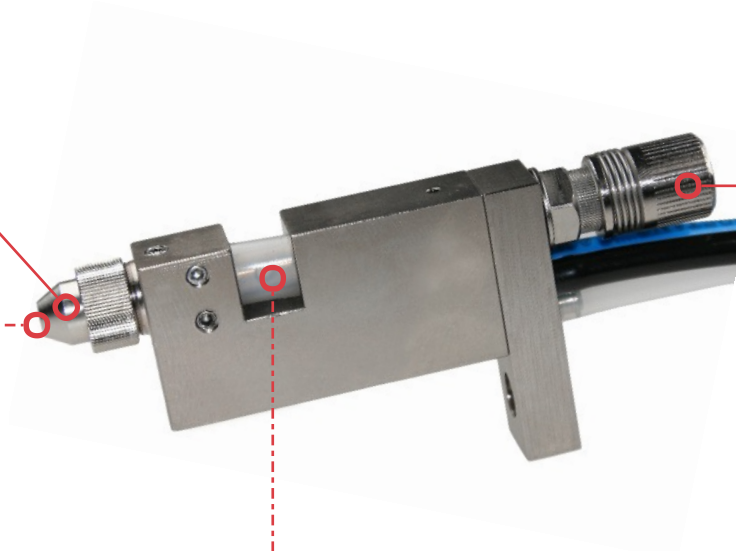
*Replace XX value with nozzle diameter desired
Available nozzle diameters 0,5 - 0,8 - 1,0 - 1,2 - 1,5 mm*



Round air caps with anti-stick coating



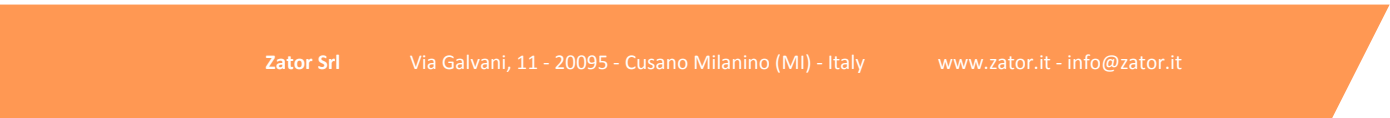
Zero cavity nozzle with anti-stick coating



Micrometric adjustment



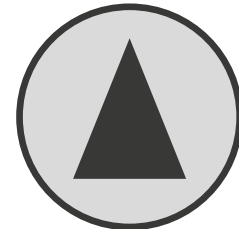
Self-cleaning needle



MZS

Spray gun for low and medium viscosity glues, adhesives and fluids with solenoid control valve; the spray air control requires the use of an external coil. The micrometric adjustment allows a fine control of the glue quantity. Strong and compact size. It has the particularity of nozzle and the cap with anti-stick coating.

Technical data	
Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	minimum 5 bar
Drive type	double action
Maximum working pressure	25 bar
Coil	24 Volt
Nebulization pressure	from 0,5 to 5 bar
Weight	510 g



Spray

Round cap

Flat cap

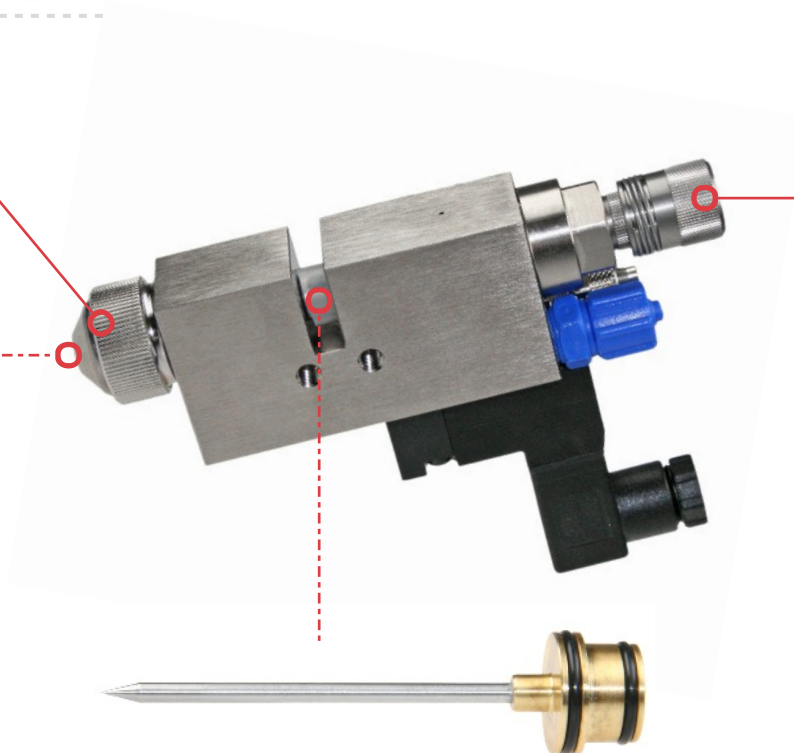


Air caps with anti-stick coating

Micrometric adjustment



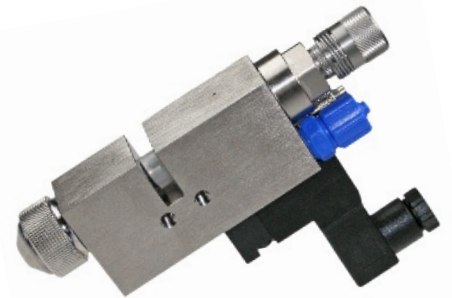
Zero cavity nozzle with anti-stick coating



Self-cleaning needle

Code	Description
C3451XX00	Spray gun MZS1XXSRRM round cap 24 V

*Replace XX value with nozzle diameter desired
Available nozzle diameters 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



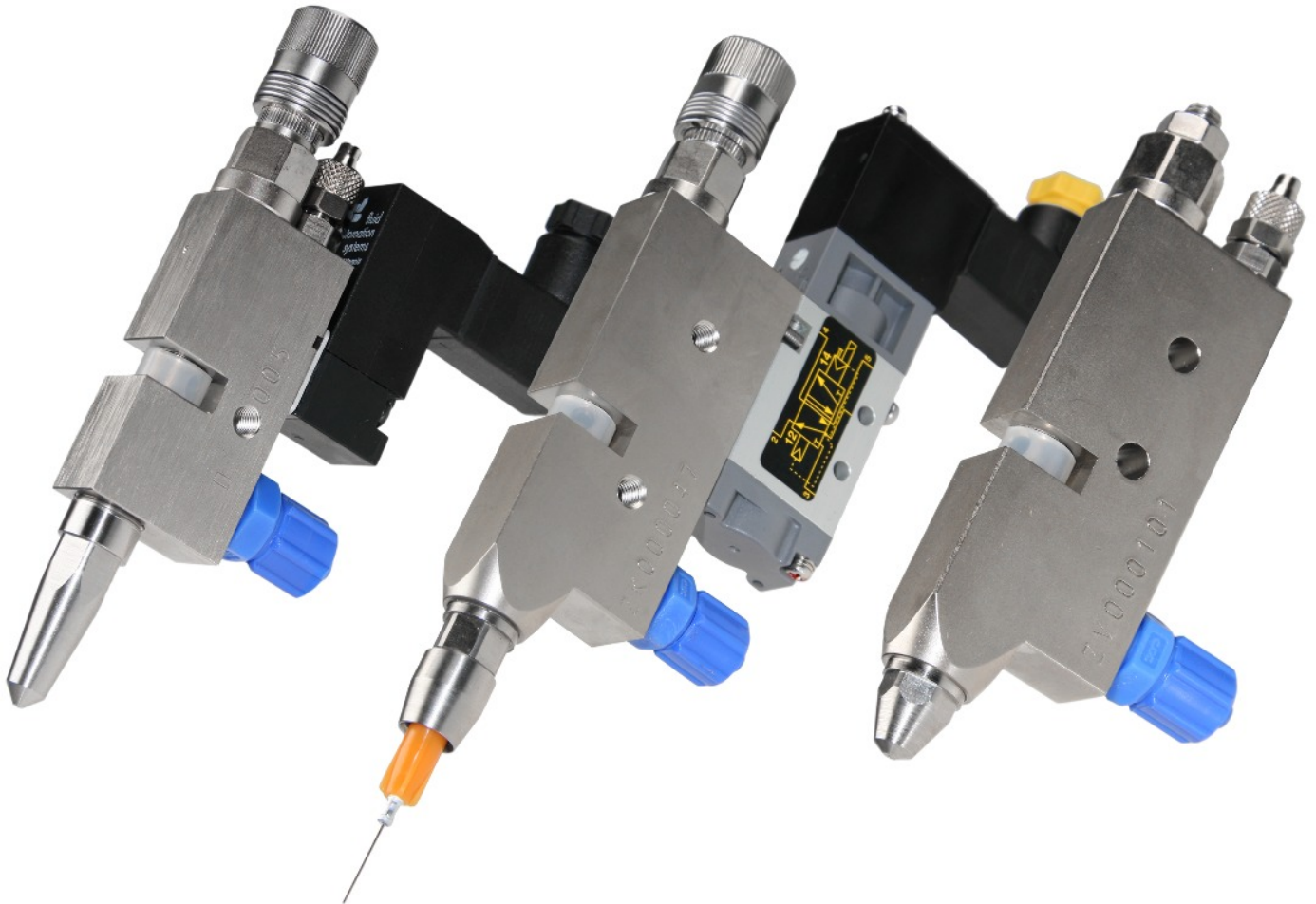
Code	Description
C3454XX00	Spray gun MZS1XXSFRM flat cap 24 V

*Replace XX value with nozzle diameter desired
Available nozzle diameters 0,3 - 0,5 - 0,8 - 1,0 - 1,5 mm*



ELECTRO-PNEUMATIC EXTRUSION GUNS


MZD - MZV - MZB - MZK GUNS



Electro-pneumatic guns are used for extrusion of low, medium and high viscosity glues, adhesives and fluids.

Characterized by their strength, small size and versatility: can be equipped with different types of nozzles designed to meet the needs of different applications.

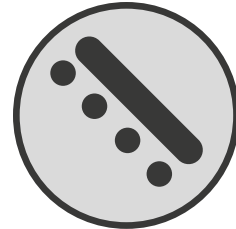
The dispensing is accurate, continuous and reliable, ensuring the dispensing of required quantity of fluid.

Application fields	Fluid types	Application types
Packaging Paper converting Case maker Wood industry Assembly	Adhesives and glues Silicones Greases Lubricants Low, medium and high viscosity fluids	Dots and lines 

MZD200

Compact size electro-pneumatic extrusion gun for low/medium viscosity glues, adhesives and fluids with solenoid valve, micrometric adjustment and drive with double action piston. Gun body with anti-stick coating, tungsten carbide needle and stainless steel nozzle. The micrometric adjustment allows a fine control of the glue quantity. A wide range of noozles is available for every application needs.

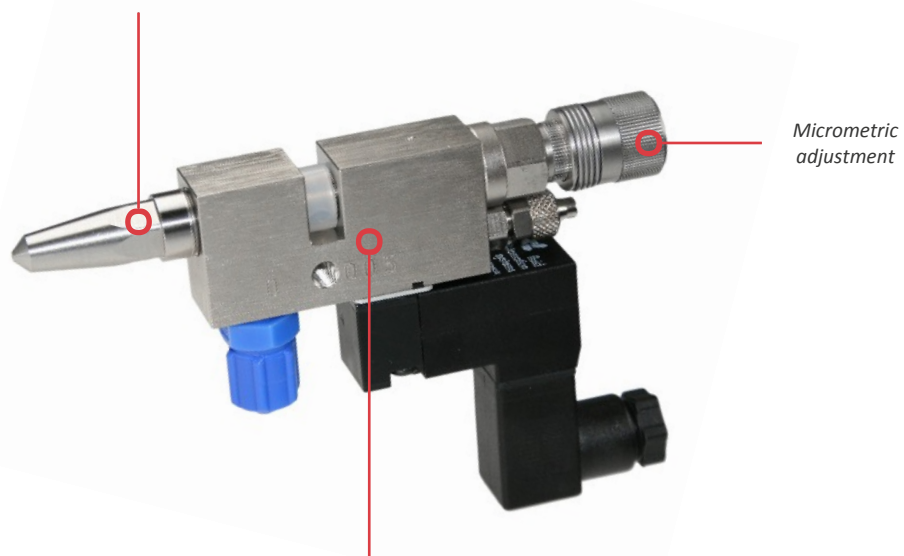
Technical data	
Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	minimum 6 bar
Drive type	double action
Maximum working pressure	30 bar
Coil	24 Volt
Weight	230 g



Dots and lines



Available nozzles

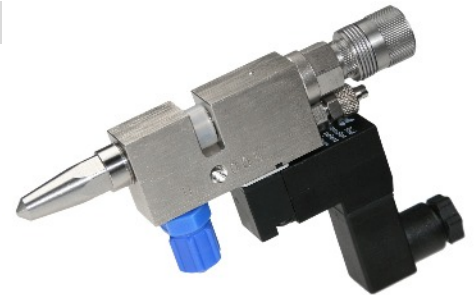


Micrometric adjustment

Gun body with anti-stick coating

Code	Description
C3121XX00	Extrusion gun MZD2XXLV 24 Volt

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
C31210001	Extrusion gun MZD200MG 24 Volt



Code	Description
C31210004	Extrusion gun MZD20018 24 Volt



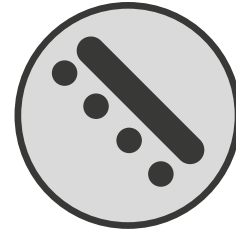
Code	Description
C31120005	Extrusion gun MZD200SY 24 Volt



MZV

Electro-pneumatic extrusion gun for low/medium viscosity glues, adhesives and fluids without solenoid valve. Gun body with anti-stick coating, tungsten carbide needle and stainless steel nozzle. The micrometric adjustment allows a fine control of the glue quantity. A wide range of nozzles is available for every application needs.

Technical data	
Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	minimum 5 bar
Drive type	simple or double action
Maximum working pressure	80 bar
Weight	270 g



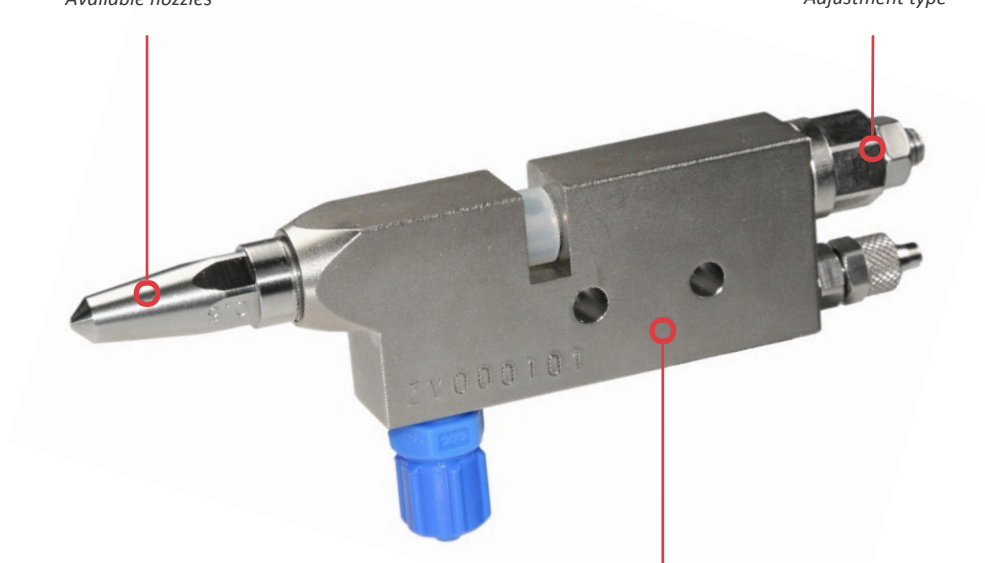
Dots and lines



Available nozzles



Adjustment type



Gun body with anti-stick coating

Code	Description
C3311XX00	Extrusion gun MZV4XXKVNR

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
C3321XX00	Extrusion gun MZV4XXKVRM

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
C3312XX00	Extrusion gun MZV4XXLVNR

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
C3322XX00	Extrusion gun MZV4XXLVRM

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
C3311XX01	Extrusion gun MZV4XXKLNLR 7 mm
C3311XX02	Extrusion gun MZV4XXKLNLR 10 mm

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
C3321XX01	Extrusion gun MZV4XXKLRM 7 mm
C3321XX02	Extrusion gun MZV4XXKLRM 10 mm

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
C33110005	Extrusion gun MZV4XXSYNR



Code	Description
C33210005	Extrusion gun MZV4XXSYRM



Code	Description
C33110018	Extrusion gun MZV40018NR



Code	Description
C33210018	Extrusion gun MZV40018RM



Code	Description
C33110006	Extrusion gun MZV400MGNR



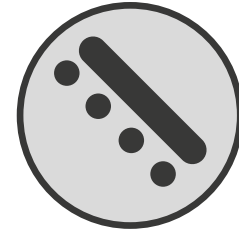
Code	Description
C33210006	Extrusion gun MZV400MGRM



MZB

Electropneumatic dispenser designed for medium/high viscosity fluids. The gun is pneumatically controlled by external solenoid valves. Brass body with nickel coating, wear resistant titanium coated needle. A wide range of stainless steel nozzles is available for every application needs.

Technical data	
Available nozzle diameters	from 2,0 to 5,0 mm
Air pressure control	minimum 5 bar
Drive type	simple or double action
Maximum working pressure	150 bar
Weight	490 g



Dots and lines



Available nozzles



Code	Description
C3511XX00	Extrusion gun MZB1XXKVNR

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 2,0 to 5,0 mm*



Code	Description
C3511XX01	Extrusion gun MZB1XXKLNLR 10 mm
C3511XX02	Extrusion gun MZB1XXKLNLR 15 mm
C3511XX03	Extrusion gun MZB1XXKLNLR 20 mm

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 2,0 to 5,0 mm*



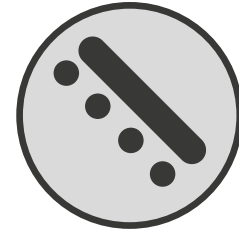
Code	Description
C35110014	Extrusion gun MZB10014NR 1/4"



MZK

Electro-pneumatic extrusion gun for low/medium viscosity glues, adhesives and fluids with solenoid valve. Gun body with anti-stick coating, tungsten carbide needle and stainless steel nozzle. The micrometric adjustment allows a fine control of the glue quantity. A wide range of nozzles is available for every application needs.

Technical data	
Available nozzle diameters	from 0,3 to 1,5 mm
Air pressure control	minimum 5 bar
Drive type	double action
Maximum working pressure	80 bar
Coil	24 or 220 Volt
Weight	330 gr



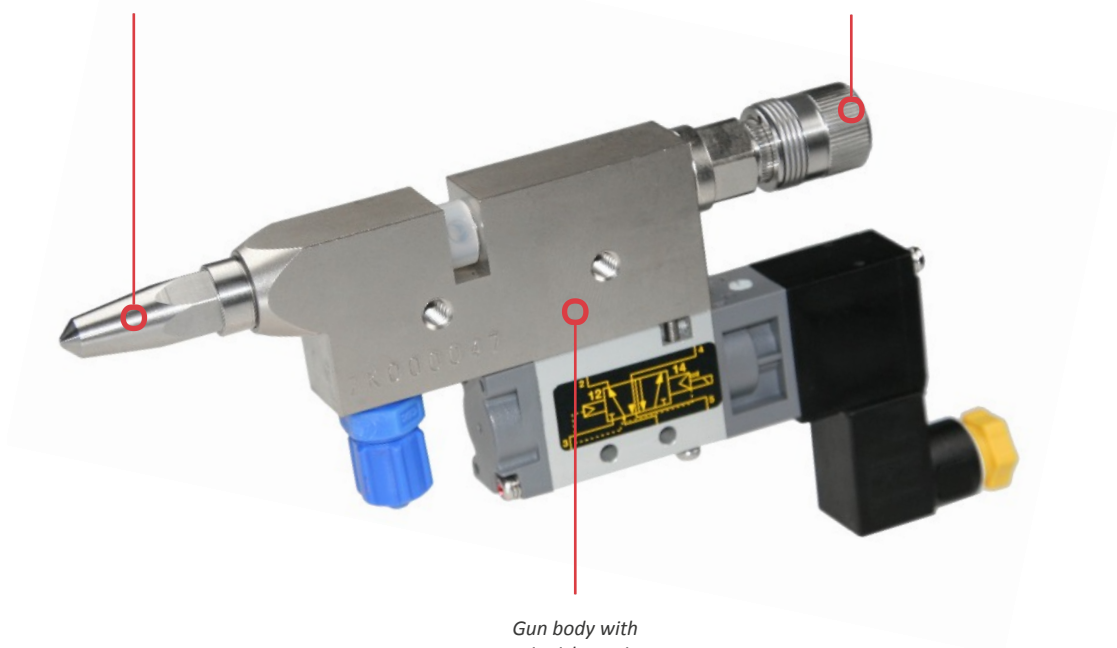
Dots and lines



Available nozzles



Adjustment type



Gun body with anti-stick coating

Code	Description
C3251XX00	Extrusion gun MZK4XXKVNR 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>



Code	Description
C3254XX00	Extrusion gun MZK4XXLVNR 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>



Code	Description
C3261XX00	Extrusion gun MZK4XXKVRM 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>



Code	Description
C3264XX00	Extrusion gun MZK4XXLVRM 24 Volt
	<i>Replace XX value with nozzle diameter desired Available nozzle diameters from 0,3 to 1,5 mm</i>



Code	Description
------	-------------

- | | |
|-----------|---|
| C3251XX01 | Extrusion gun MZK4XXKLNLR 7 mm 24 Volt |
| C3251XX02 | Extrusion gun MZK4XXKLNLR 10 mm 24 Volt |

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
------	-------------

- | | |
|-----------|--|
| C3261XX01 | Extrusion gun MZK4XXKLRM 7 mm 24 Volt |
| C3261XX02 | Extrusion gun MZK4XXKLRM 10 mm 24 Volt |

*Replace XX value with nozzle diameter desired
Available nozzle diameters from 0,3 to 1,5 mm*



Code	Description
------	-------------

- | | |
|-----------|----------------------------------|
| C32510005 | Extrusion gun MZK400SYNR 24 Volt |
|-----------|----------------------------------|



Code	Description
------	-------------

- | | |
|-----------|----------------------------------|
| C32610005 | Extrusion gun MZK400SYRM 24 Volt |
|-----------|----------------------------------|



Code	Description
C32510018	Extrusion gun MZK40018NR 24 Volt



Code	Description
C32610018	Extrusion gun MZK40018RM 24 Volt



Code	Description
C32510006	Extrusion gun MZK400MGNR 24 Volt



Code	Description
C32610006	Extrusion gun MZK400MGRM 24 Volt



OTHER COMPONENTS

OPTIONALS AND SPARE PARTS



Zator's optionals and spare parts are those components that complete a typical glue, adhesive and fluid application/distribution system.

They are divided in optionals and spare parts for the supply and fluid control in the system and in optionals and spare parts for the electronic control of the solenoid valves.

Optionals and spare parts		
Glue distributor	Gun sets	Encoder
Pressure regulators	Filters	Photocells
Carriages	Brackets	Extensions
Level controls	Pipes	Cables

GLUE DISTRIBUTORS

Low pressure glue distributors

Code	Description
A19101200	Stainless steel glue distributor Low pressure Ball valves Exhaust valve 1 inlet 2 outlets



Code	Description
A19101300	Stainless steel glue distributor Low pressure Ball valves Exhaust valve 1 inlet 3 outlets



Code	Description
A19101400	Stainless steel glue distributor Low pressure Ball valves Exhaust valve 1 inlet 4 outlets



Code	Description
A19101600	Stainless steel glue distributor Low pressure Ball valves Exhaust valve 1 inlet 6 outlets



High pressure glue distributors

Code	Description
A19104200	Stainless steel glue distributor High pressure Ball valves Exhaust valve 1 inlet 2 outlets



Code	Description
A19104300	Stainless steel glue distributor High pressure Ball valves Exhaust valve 1 inlet 3 outlets



Code	Description
A19104400	Stainless steel glue distributor High pressure Ball valves Exhaust valve 1 inlet 4 outlets



Code	Description
A19104600	Stainless steel glue distributor High pressure Ball valves Exhaust valve 1 inlet 6 outlets



GUN SETS

Low pressure gun set

Code	Description
A10200200	Low pressure gun set Cable, connector, pipe length 2 meters
A10200300	Low pressure gun set Cable, connector, pipe length 3 meters
A10200400	Low pressure gun set Cable, connector, pipe length 4 meters
A10200500	Low pressure gun set Cable, connector, pipe length 5 meters
A10200600	Low pressure gun set Cable, connector, pipe length 6 meters
A10200800	Low pressure gun set Cable, connector, pipe length 8 meters
A10201000	Low pressure gun set Cable, connector, pipe length 10 meters
A10201500	Low pressure gun set Cable, connector, pipe length 15 meters



High pressure gun set

Code	Description
A10310200	High pressure gun set Cable, connector, pipe 1/8" length 2 meters
A10310300	High pressure gun set Cable, connector, pipe 1/8" length 3 meters
A10310400	High pressure gun set Cable, connector, pipe 1/8" length 10 meters
A10310500	High pressure gun set Cable, connector, pipe 1/8" length 15 meters



ENCODER

Code	Description
K96313104	Encoder 1000 imp/rev



Code	Description
K96313021	Encoder bracket



Code	Description
K96313003	Encoder pulley



Code	Description
K96313194	Encoder kit: Encoder 1000 imp/rev Encoder bracket Encoder pulley



PHOTOCELLS

Code	Description
K96311200	High speed reflex photocell PNP Diameter 6 mm Cable 5 meters with connector



Code	Description
K96311100	Reflex photocell PNP Diameter 18 mm Cable 5 meters with connector



Code	Description
K96312100	Magnetic inductive sensor PNP Diameter 8 mm Cable 5 meters with connector



Code	Description
K96311210	Optical fiber photocell S PNP Diameter 6 mm Amplifier and cable 5 meter with connector



CABLES

Code	Description
G77140200	Power cable 220 V length 2,5 m



Code	Description
G77230200	Gun cable length 2 meters
G77230300	Gun cable length 3 meters
G77230400	Gun cable length 4 meters
G77230500	Gun cable length 5 meters
G77230600	Gun cable length 6 meters
G77230800	Gun cable length 8 meters
G77231000	Gun cable length 10 meters
G77231500	Gun cable length 15 meters



Code	Description
G77110300	Encoder cable length 3 meters
G77110500	Encoder cable length 5 meters
G77110600	Encoder cable length 6 meters
G77110800	Encoder cable length 8 meters
G77111000	Encoder cable length 10 meters
G77111500	Encoder cable length 15 meters



Code	Description
G77150300	Proportional valve cable 3 meters
G77150500	Proportional valve cable 5 meters
G77150600	Proportional valve cable 6 meters
G77150800	Proportional valve cable 8 meters
G77151000	Proportional valve cable 10 meters
G77151500	Proportional valve cable 15 meters



PRESSURE REGULATORS

Code	Description
A19511100	Manual stainless steel pressure regulator Pressure range 0-7 bar Maximum pressure 40 bar
A19513100	Manual stainless steel pressure regulator Pressure range 0-50 bar Maximum pressure 70 bar



Code	Description
A19515100	Automatic stainless steel pressure regulator 1:1 ratio Pressure range 0-7 bar Maximum pressure 10 bar



Code	Description
A19517200	Automatic stainless steel pressure regulator 5:1 ratio Pressure range 0-30 bar Maximum pressure 40 bar



PIPES

Air pipes

Code	Description
K95101105	Blue pipe 6x4
K95101107	Blue pipe 8x6
K95101108	Blue pipe 10x8



Low pressure glue pipes

Code	Description
K95101302	Trasparent pipe 6x4
K95101303	Trasparent pipe 8x6
K95101305	Trasparent pipe 10x8
K95101306	Trasparent pipe 12x10



High pressure glue pipes

Code	Description
K95100102	High pressure pipe 1/8" with fittings L=2 m
K95100103	High pressure pipe 1/8" with fittings L=3 m
K95100104	High pressure pipe 1/8" with fittings L=4 m
K95100105	High pressure pipe 1/8" with fittings L=5 m



Code	Description
K95102102	High pressure pipe 1/4" with fittings L=2 m
K95102103	High pressure pipe 1/4" with fittings L=3 m
K95102104	High pressure pipe 1/4" with fittings L=4 m
K95102105	High pressure pipe 1/4" with fittings L=5 m



Code	Description
K95102201	High pressure pipe 3/8" with fittings L=1 m
K95102202	High pressure pipe 3/8" with fittings L=2 m
K95102203	High pressure pipe 3/8" with fittings L=3 m
K95102204	High pressure pipe 3/8" with fittings L=4 m
K95102205	High pressure pipe 3/8" with fittings L=5 m



FILTERS

Code	Description
K95518600	Stainless steel filter/pulsation dampener with cartridge mesh 200 µm or 500 µm Maximum pressure 250 bar



Code	Description
K95516100	Stainless steel Y Filter 1/2" with cartridge mesh 150 µm Maximum pressure 100 bar



Code	Description
MZF1138	MZF Filter 1 in - 1 out 3/8"
MZF1138S	MZF Filter 1 in - 1 out 3/8" opposite faces version
MZF2314	MZF Filter 2 in - 3 out 1/4"



Code	Description
K95510104	Filter cartridge (K95518600) 50 mesh
K95510105	Filter cartridge (K95518600) 200 mesh



Code	Description
K95510102	Y filter cartridge (K95516100) mesh 150 µm



Code	Description
MZF50	(MZF) filter cartridge mesh 150 µm



Code	Description
K95510112	Bottom valve filter cartridge



BRACKETS

Code	Description
H89300100	DLK gun VS bracket



Code	Description
H89300400	DLK gun bracket, range bar diameters 20-32 mm



Code	Description
V01LMZ24	LMZ02-LMZ04 tray
V01LMZ08	LMZ08 tray

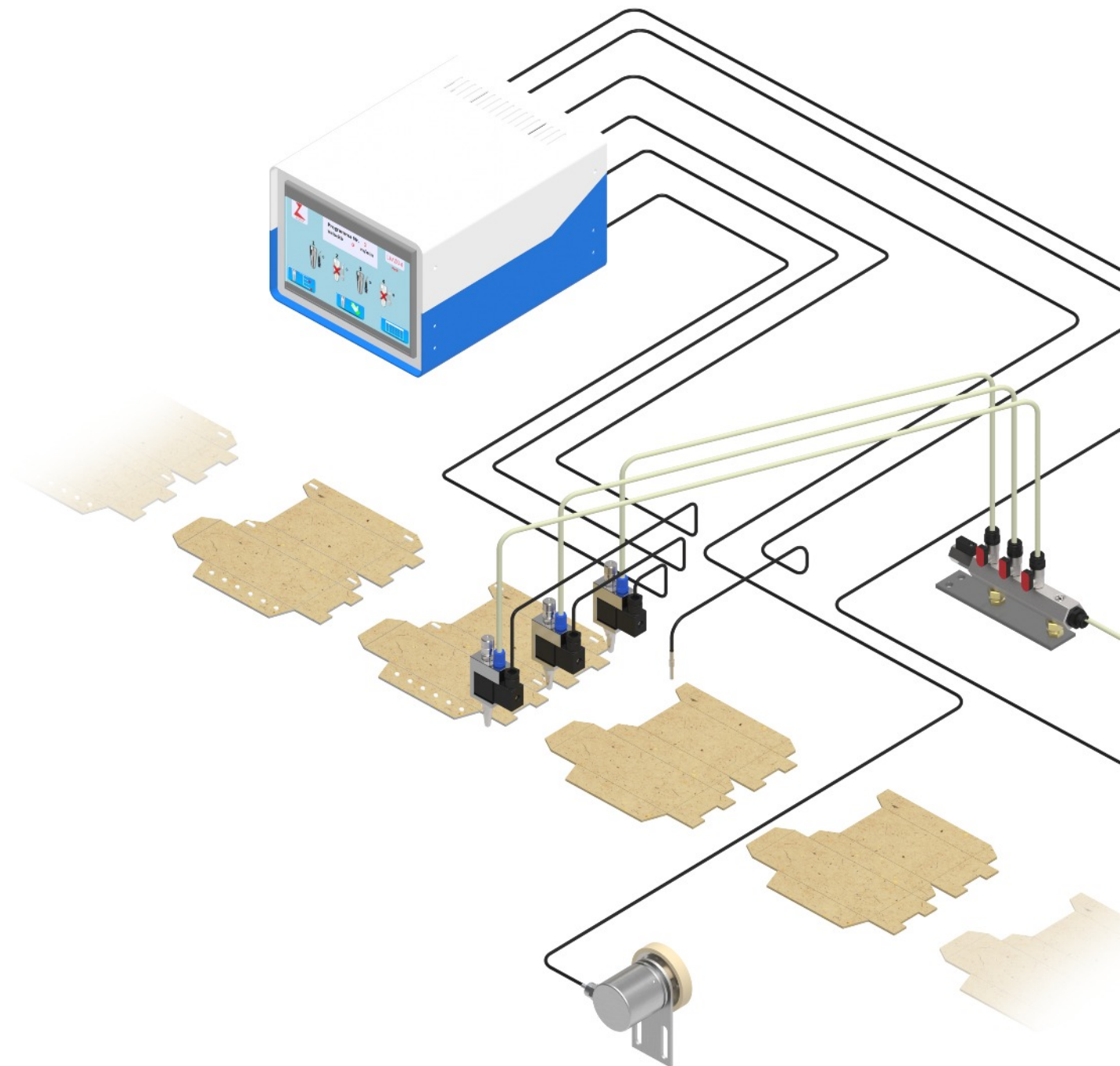


Code	Description
H89335200	Optic fiber photocell bracket

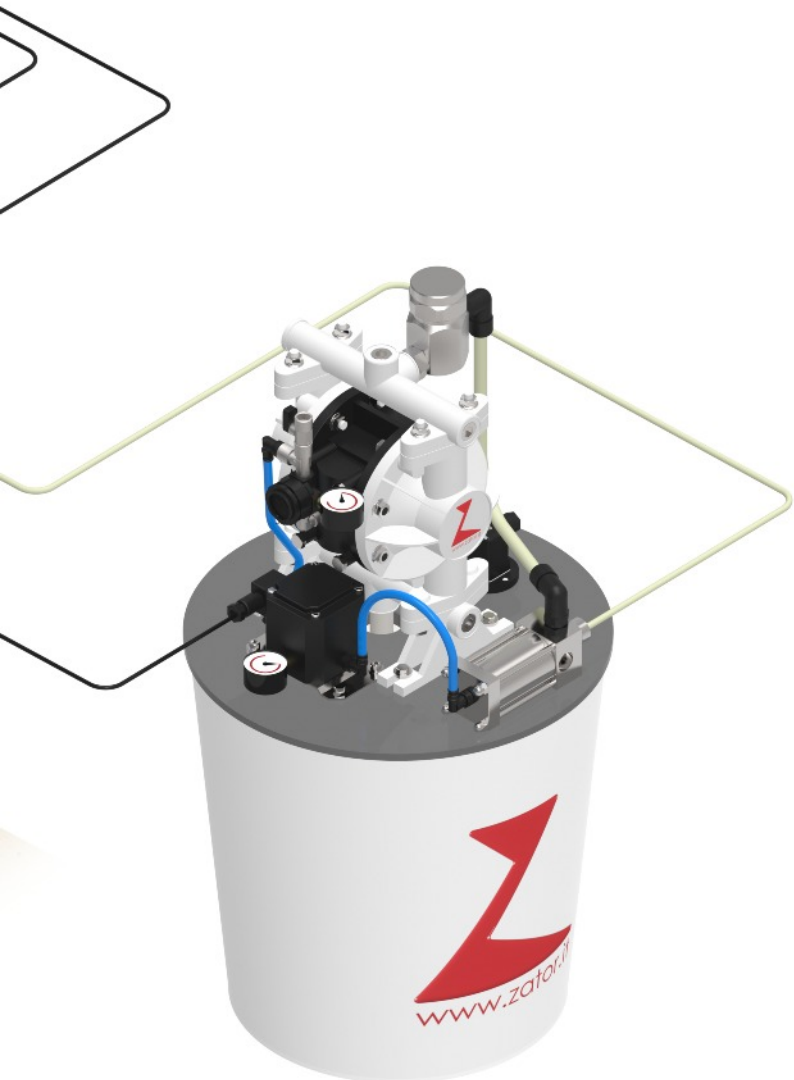


APPLICATIONS

EXAMPLES

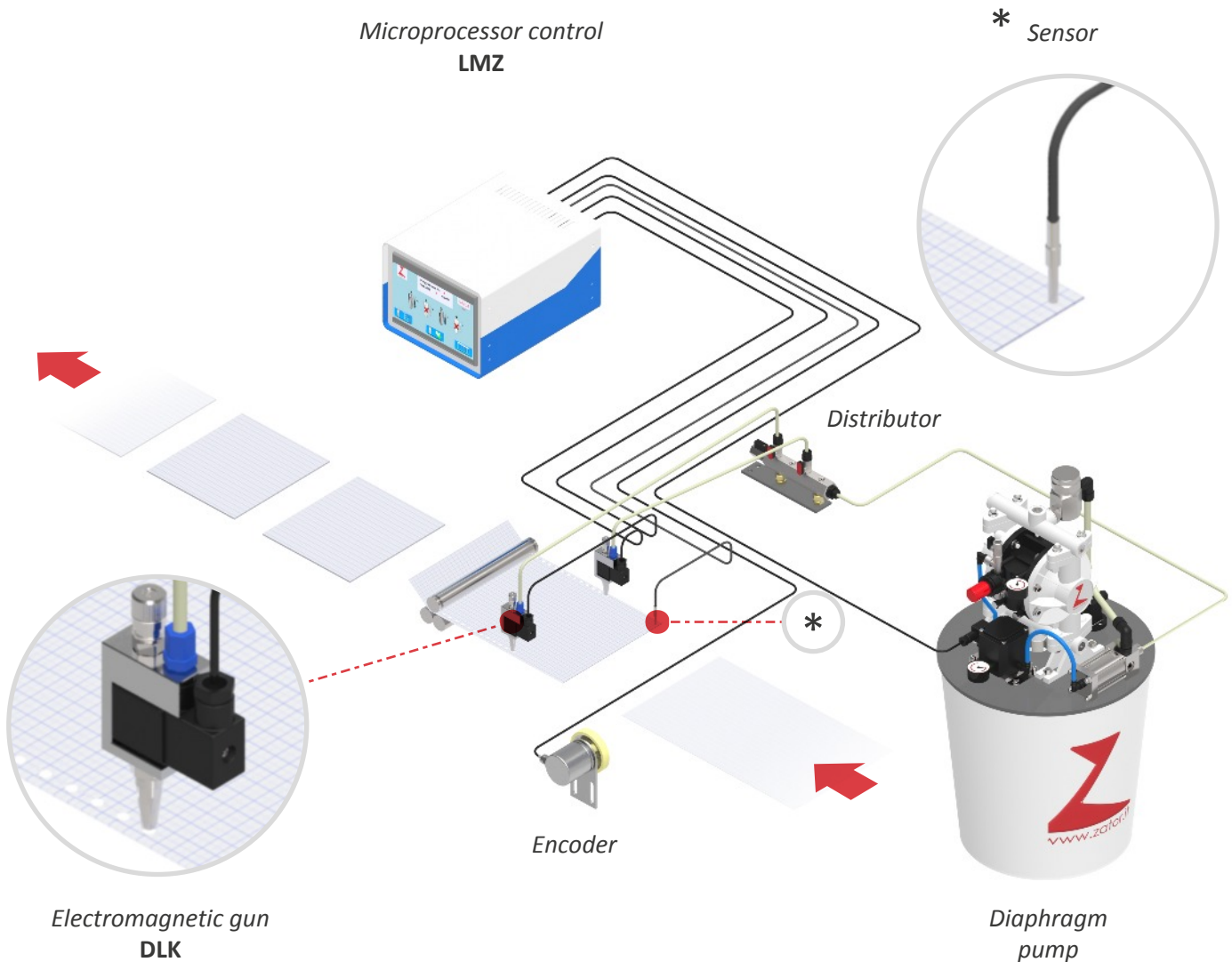


Different applications of Zator systems are shown on the next pages. Thanks to our wide experience we are able to find the most suitable technical solution for your application field needs.



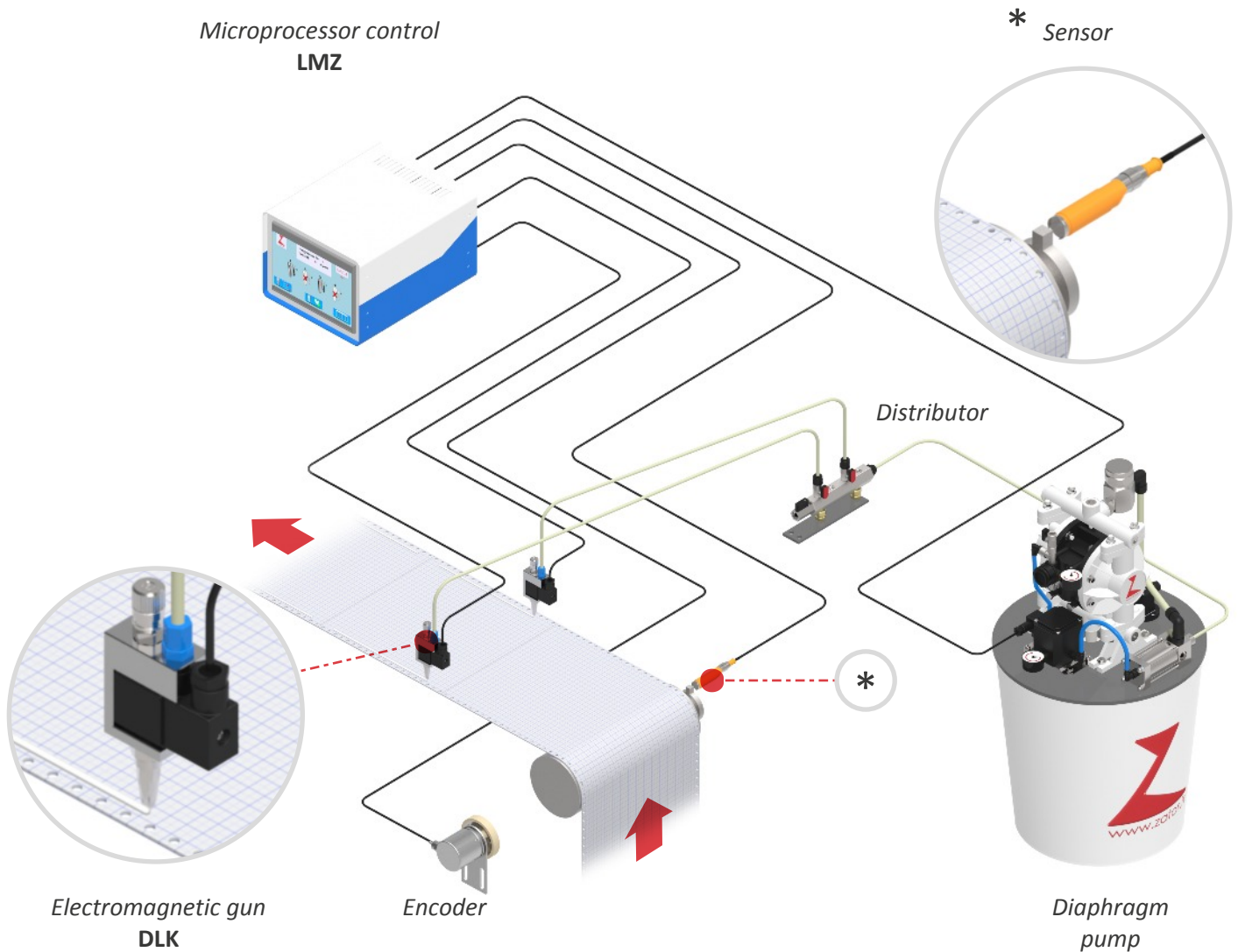
FOLDING MACHINE

This system is the usual one for folding machine (mailing machine). The control can be setted to dispense dots or lines and the position of the glue pattern is accurate at any speed. By the touch screen of the LMZ control, the programmation is user-friendly. The characteristics of this system provide the repeatability and the accuracy needed for systems with high productivity as in this case, adapting to the needs of the sector.



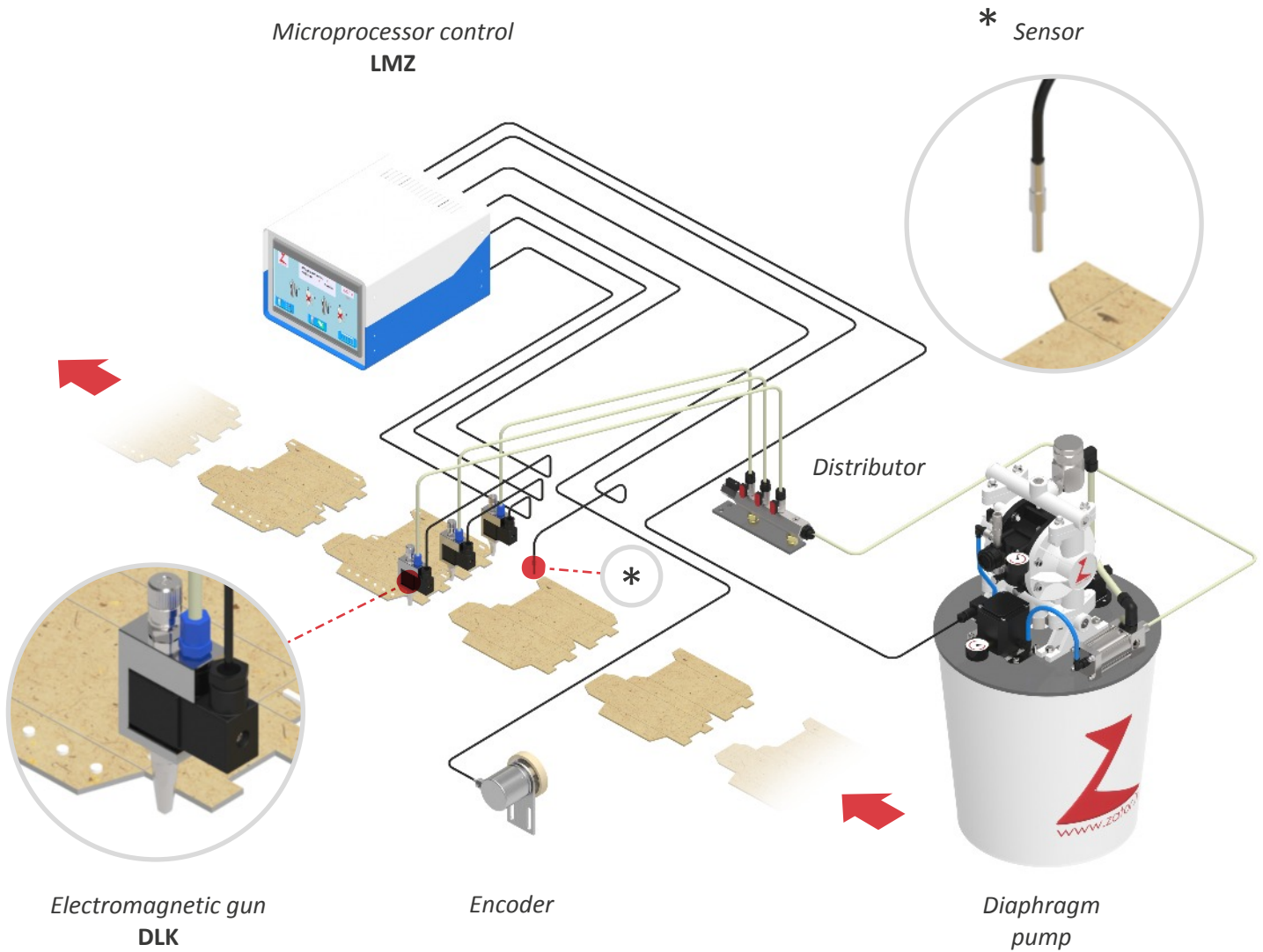
COLLATOR MACHINE

This application is indicated for the production of multi pages business form. The glue line can be programmed in relation of the format. Also is possible to make an interruption of the glue line (jump) near the fold or the cut of the page. A sensor fitted on the folding cylinder keep the glue jump in phase with the form.



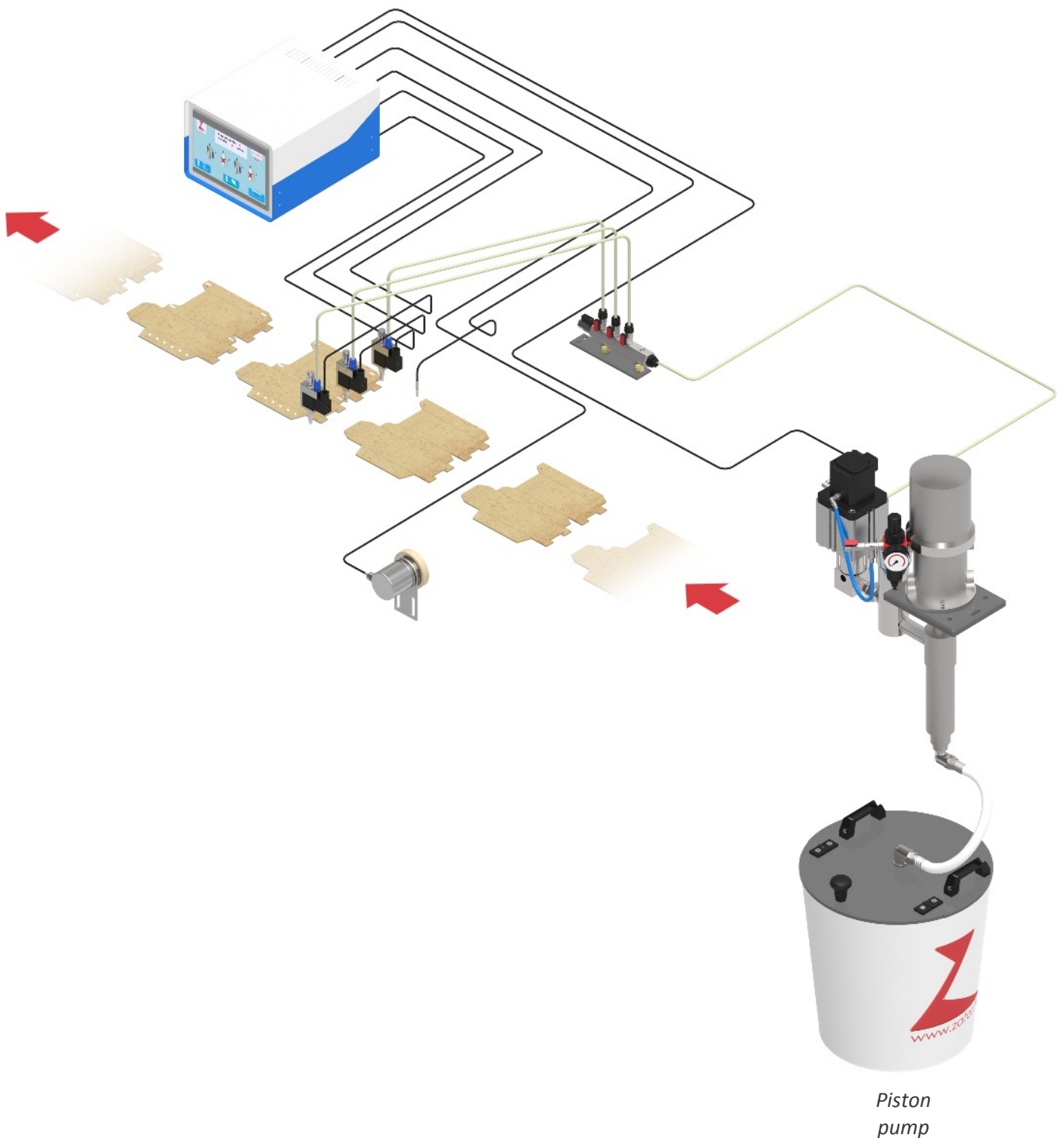
FOLDER GLUER MACHINE #1

On folder gluer machine the Zator systems give the best performances. This system increase the production speed and improve the quality of the final product. The programming with touch screen of the LMZ control is user-friendly, the dots or lines are dispensed with high precision at every machine speeds. The diaphragm pump is recommended for low viscosity glues or fluids.



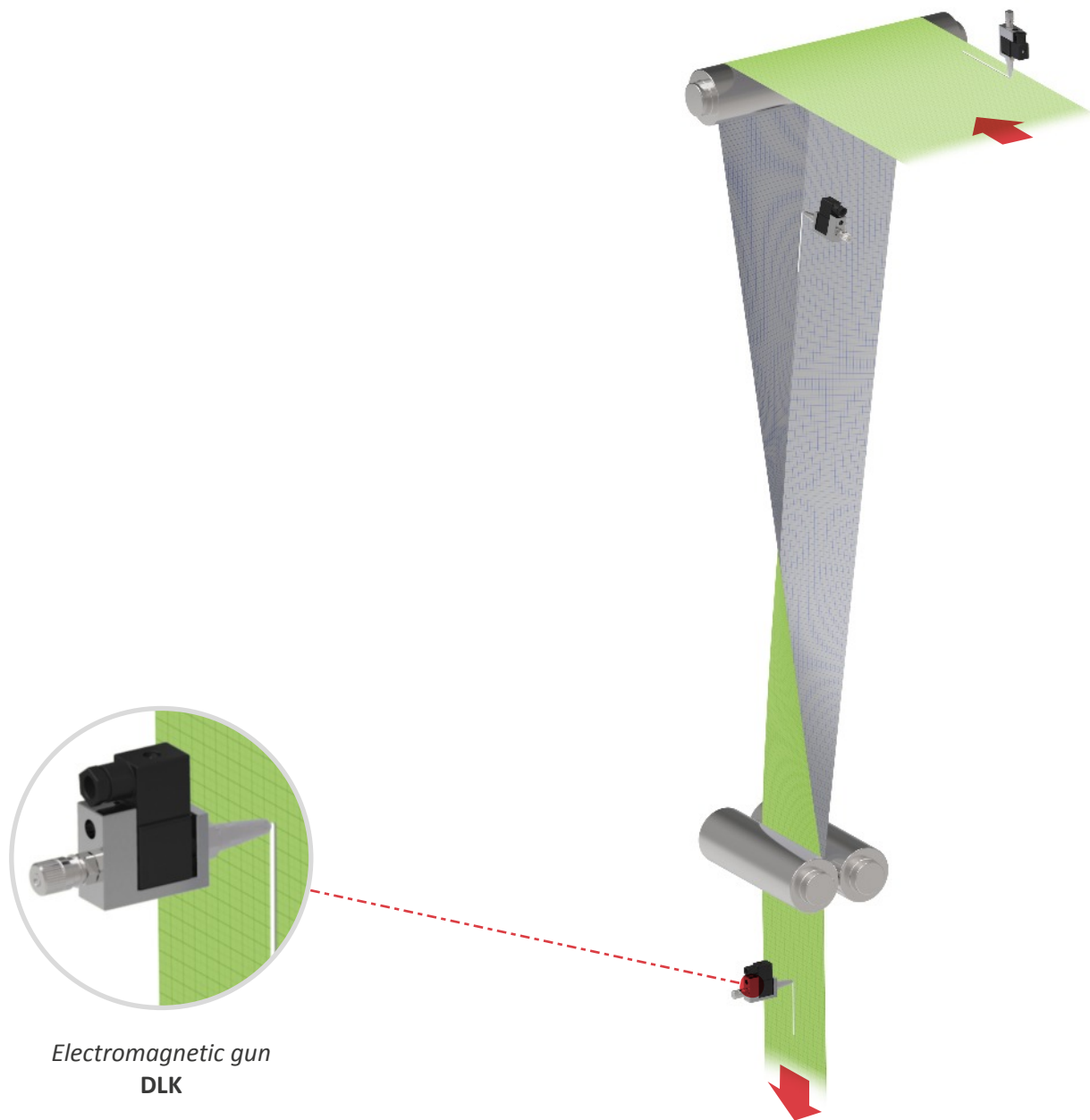
FOLDER GLUER MACHINE #2

This system is equipped with a piston pump feed unit: this solution allows the use of a wider range of medium viscosity glues. LMZ touch screen make the programming an easy and intuitive operation. DLK electromagnetic gun is controlled with precision at high speed and the glue application is automatically set at every speed.



ROTO-OFFSET MACHINE

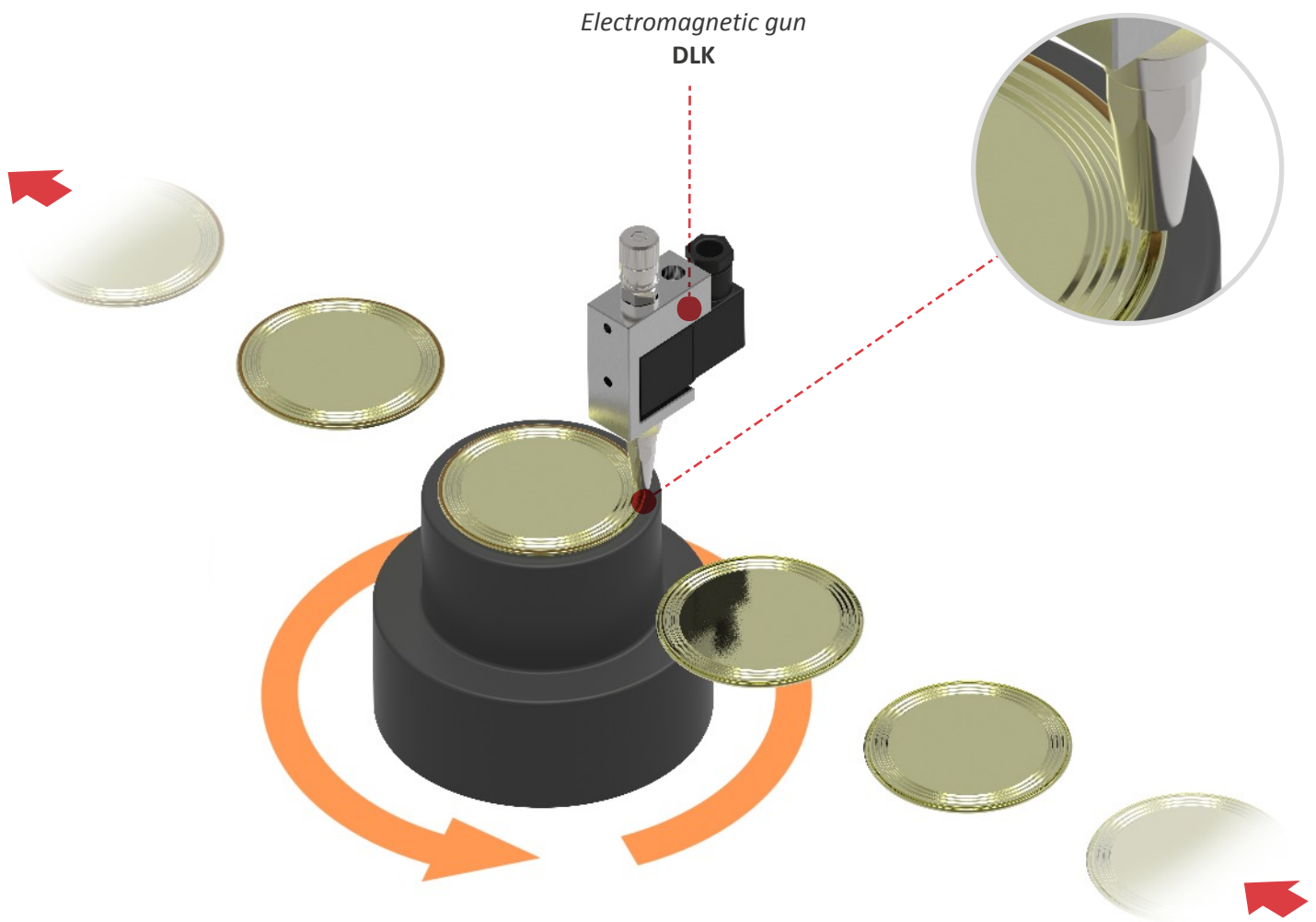
Roto-offset machines can be equipped with a glue application system to dispense glue or water to soften the paper. The combination of LMZ control with DLK electromagnetic guns allows high production speed with accurate dispensing of glue or water at every machine speeds.



Electromagnetic gun
DLK

CAN LIDS

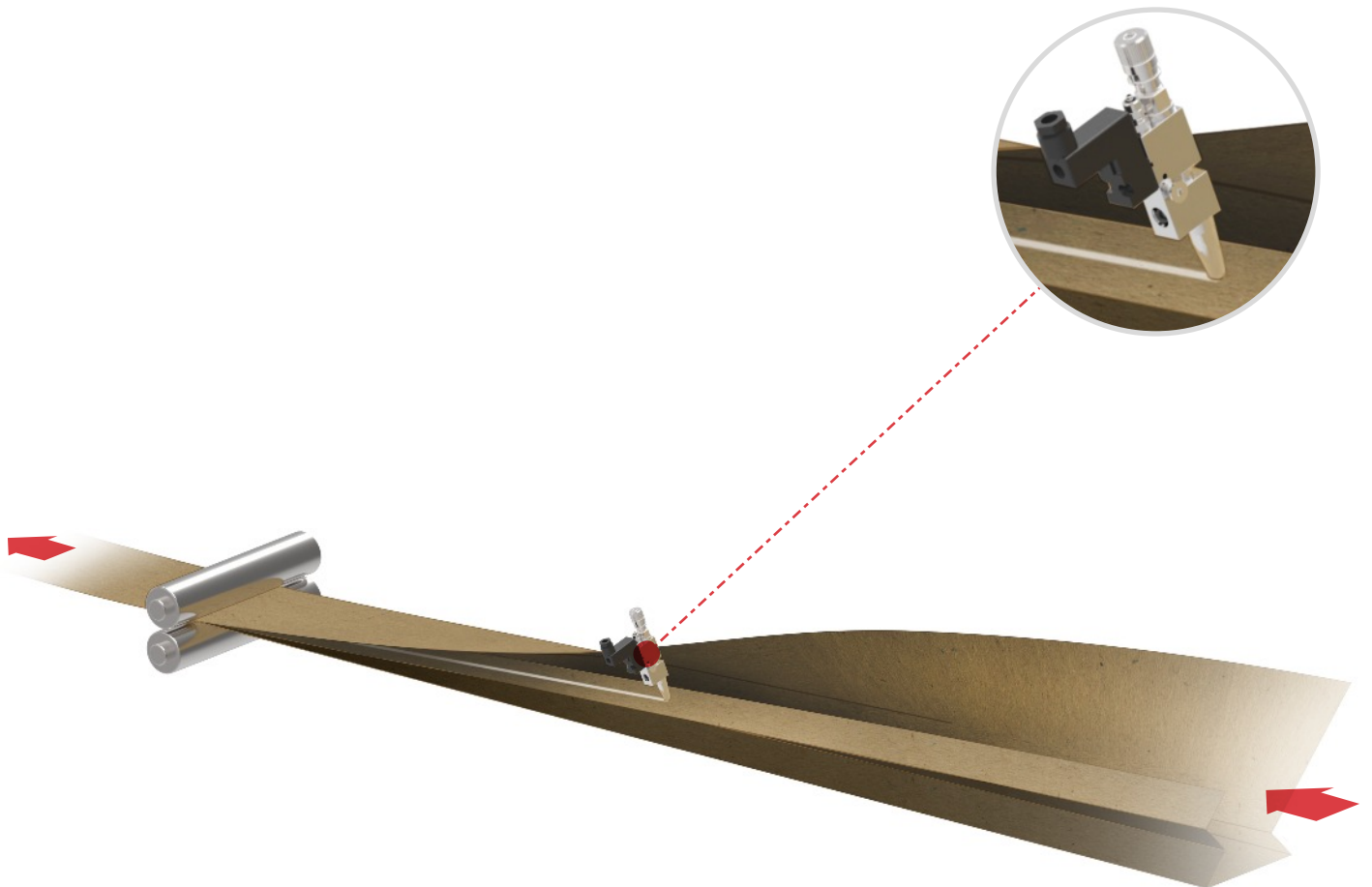
Where the mechanical clipping is not enough for a good seal of the fluid contained into the cans, is necessary the application of a mastic on the can lid edge. The electromagnetic guns DLK ensuring high speed and precision fluid dispensing can be integrated in this automated process.



PAPER BAGS

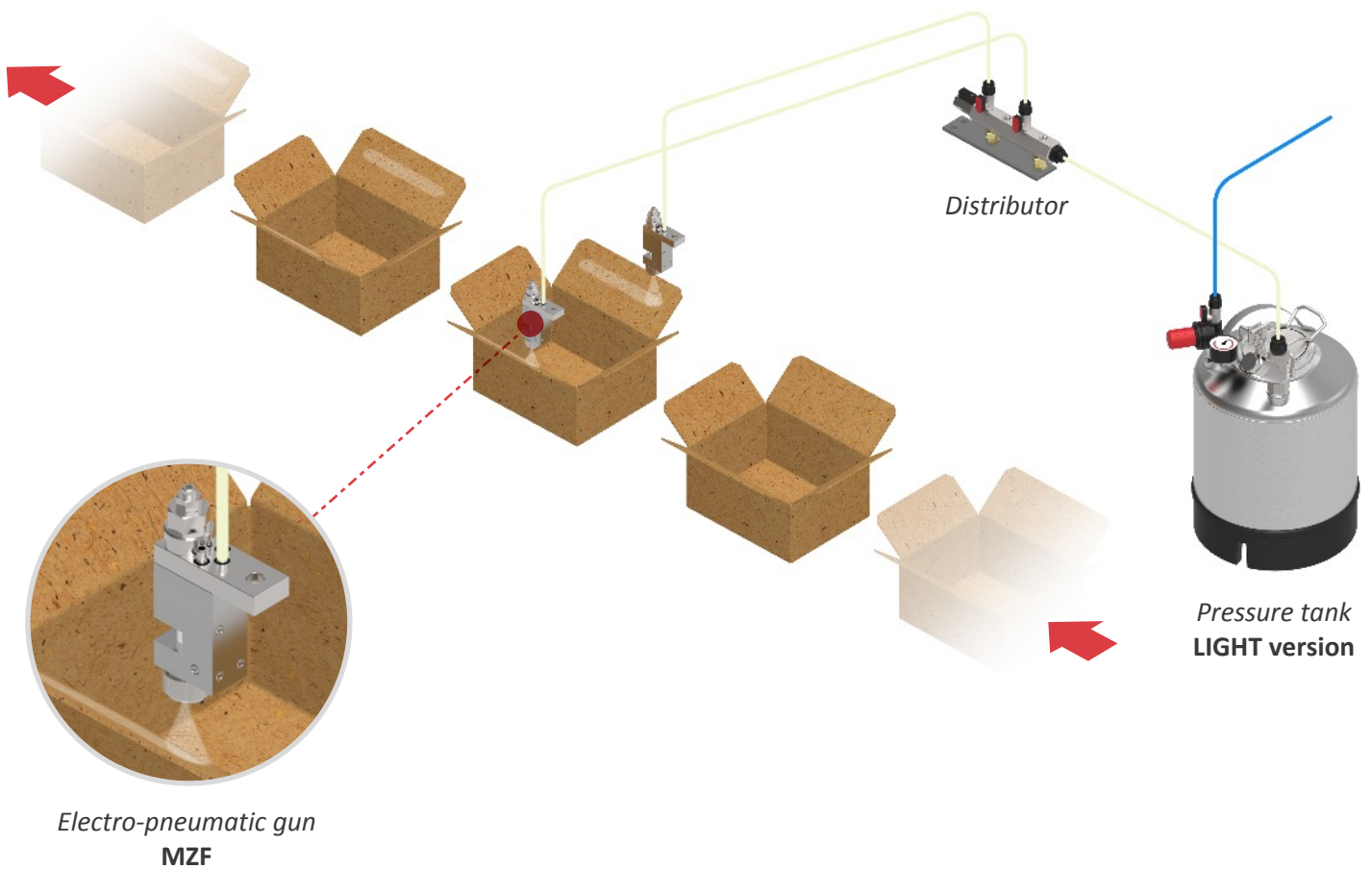
To glue the paper bag side is a simple application that can be done by installation of a MZD 200 electro-pneumatic gun. A thin glue line dispensed make the paper bag side glued at every machine speeds. This is the correct solution for this application type.

Electro-pneumatic gun
MZD200



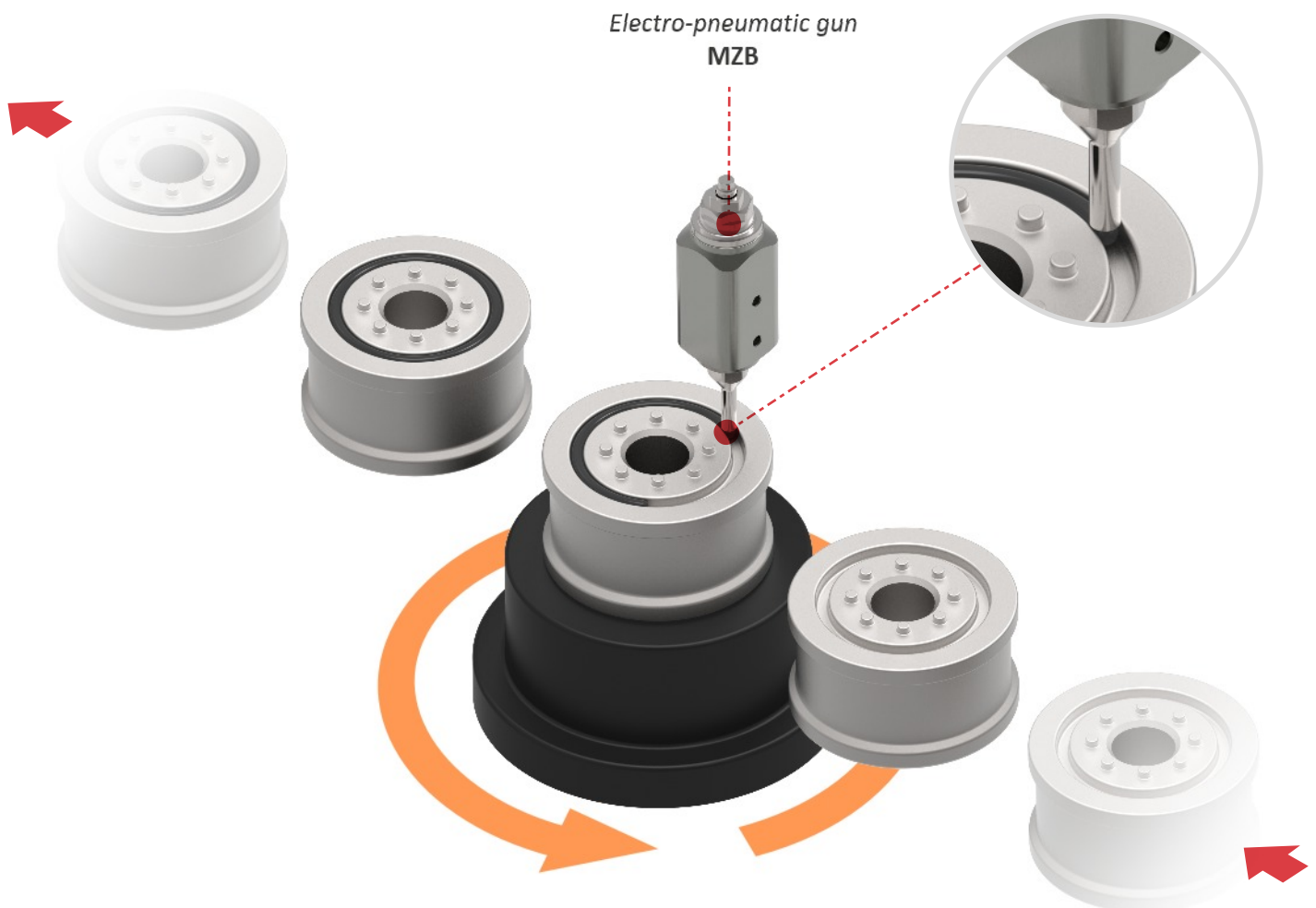
SPRAY

When wide glue patterns are required, the use of spray guns like MZF guns can be the right solution for this kind of application. This guns are designed for a long lasting service and an easy maintenance.



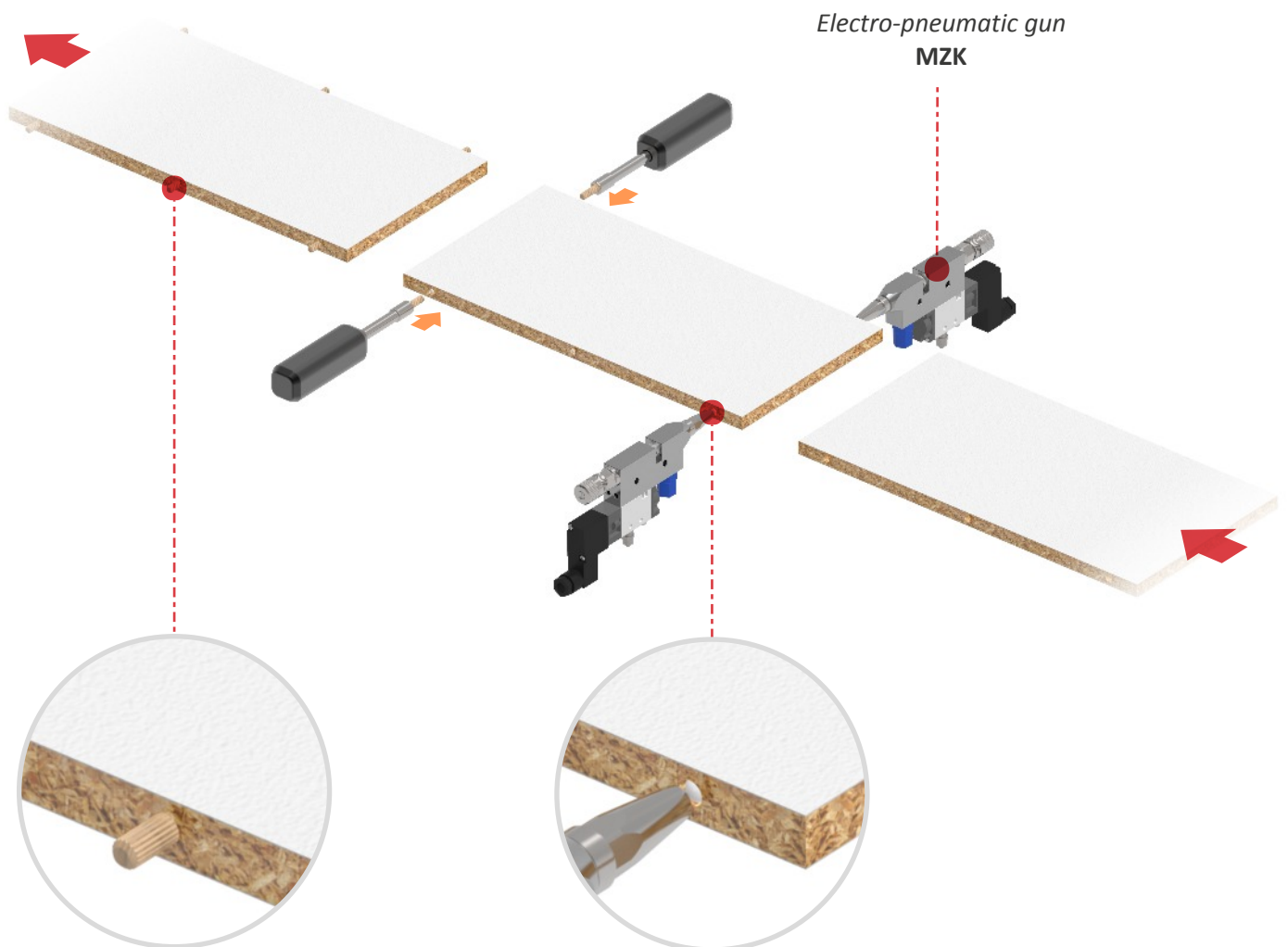
SEALS

At the present an assembly line requires to dispense thick fluid to make gaskets or seals. MZB electro-pneumatic gun with his wide range of nozzles is able to work on a wide range of applications. It is possible to dispense medium/high viscosity mastics, pastes, silicons, resins and other fluids.



FURNITURE INDUSTRY

The installation of MZK electro-pneumatic gun in a automatic wood machine line for dowels gluing is the right solution. This model of gun is designed to dispense high viscosity glue used in this kind of application, satisfying the needs of the plant.





NOTES

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