

Use and maintenance manual

MACH3 - MANUAL HIGH PRESSURE SPRAY GUN

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English 

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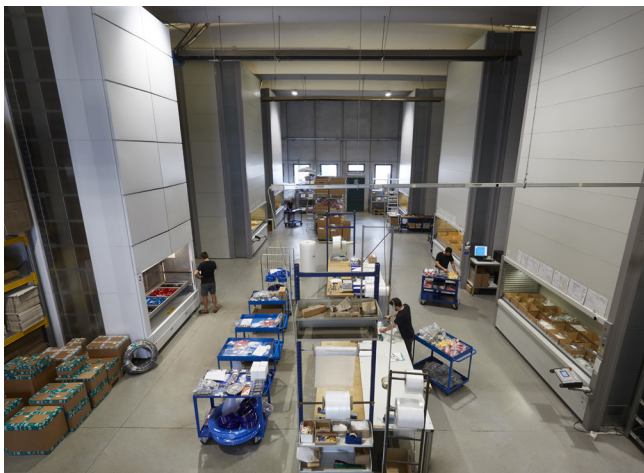
ABOUT THE COMPANY

The company was established as Filtermedia in 1996 in Calolziocorte, Northern Italy. In 2020 Filtermedia became Berizzi, maintaining the same ownership and headquarters as well as its productive and organizational characteristics. Today, it is one of the leading European manufacturers of high quality “Made in Italy” parts and components for fluid handling, owning a 5,500 sqm production site.



Berizzi is an Italian company producing components and accessories for paint spraying and fluid handling with high quality standards at highly competitive prices in the market. Berizzi also provides assistance, repair and maintenance services for its fluid handling equipment to its dealers/distributors all over the world.

Berizzi works with an eye on the future and new technologies, always in constant search for increasingly modern and cutting-edge solutions. It also aims to provide timely and excellent customer service. Berizzi fulfills every client’s request quickly and efficiently. Customer satisfaction is its priority.



THE AIMS OF CORPORATE BUSINESS ARE:

- Excellence in the quality of “Made in Italy” products and services provided
- Products manufactured internally always available in stock
- 100% functional high quality products
- Shipments within 24 hours all over the world
- Prompt communication and customer service
- Guarantee of customer satisfaction
- Continuous development of internal production

CERTIFICATION

Since some years ago, Berizzi has started a procedure of corporate certification according to the main international standards. All processes and services are in fact certified in accordance with the UNI EN ISO 9001: 2015 standard, certification body accredited by ACCREDIA. For all products, Berizzi has acquired the most important certifications in the sector.



1 GENERAL MANUAL INFORMATION

The use and maintenance manual is the document that follows the equipment from its construction until its demolition. It is therefore an integral parts of the unit and requires your full attention before any activity involves the equipment.

This manual is property of Berizzi srl, the reproduction of any part of this manual in any given form, without prior written authorization from BERIZZI Srl, is strictly forbidden. The content of this manual can be modified without prior notice.

PRODUCER DETAILS

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PRODUCT DETAILS

Model: MACH3

TECHNICAL PRODUCT DETAILS

Max. working outlet pressure: 200 Bar/2900 psi

REGULATION REFERENCE

Berizzi declares that spray gun refers to this declaration is in conformity with the following directives:

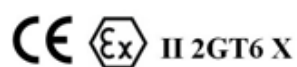
Machinery directive 2006/42/CE

ATEX directive 2014/34/UE

Security consolidated act D.lgs 81/2008 and D.lgs 106/2009

AND TO THE FOLLOWING NORMS:

- EN 1127-1 (atex)
- EN 13463-1 (atex)



2 GENERAL SAFETY INSTRUCTION

2.1 Warning for operator

Operator must know content of this manual. Keep manual always near the working place.

2.2 Workplace safety

Ensure that all people in the work area during spraying wear the personal protective equipment. Make sure that the environment there are no ignition sources such as open flames, sparks, etc. or hot surfaces.

2.3 Grounding the equipment

During spraying, due to the speed of flow paint, in particular situations may accumulate on the equipment electrostatic charges that in discharging phase may generate sparks or flame. Due to this particular condition, ensure the proper grounding through a fluid feed flexible and the pump properly grounded.

2.4 Explosion protection mark

As defined by the Directive ATEX 2014/34/UE, the unit is suitable for use in areas where there is an explosion hazard.

CE: European Community

Ex: Symbol for explosion protection

II: Unite class II

2G: Category (zone 1); Ex atmosphere gas

T6 X: Temperature class, maximum surface temperature 85°C



3 WARRANTY

All BERIZZI equipments are guaranteed for a period of 12 months from invoicing date, unless otherwise agreed in writing. This warranty applies only when the equipment is installed, operated and maintained in accordance with Berizzi written recommendations. The warranty covers all defects of material, manufacturing and provides replacement. This warranty is conditioned upon the prepaid return of the equipment claimed to be defective for verification of the claimed defect. If the claimed defect is verified, we will repair or replace free of charge any defective parts. The equipment will be returned by transportation prepaid. This warranty does not entitle for any request for compensation from damages directly or indirectly caused from our equipment to persons or objects or intervention made from buyer or by third parties. Warranty does not cover parts subject to normal wear.

This warranty is void when:

- In case of non payment or contract default;
- Repairing or modification made without our permission;
- Tampered equipment;
- Damage caused by misuse, lack of maintenance, falls or other causes not ascribed to normal operating functions.

4 DESCRIPTION

4.1 Packaging

The unit is collocated in a carton box. All series components are included in the same box. During transport and storage please make sure that temperature will be between - 15° and 40° C and for short period (max 24 hours) +50° C which may cause damages to the gun. Storage place should be with damp from 30% till 80%.

4.2 Product description

Manual airless high pressure spray gun, 200 Bar. Thanks to the external material passage, material isn't in contact with the needle. This gun is solid and light, perfect for long works without problems.

4.3 Workable products

Employable materials: paints and synthetic enamels, polyurethane, primers, mono-components, double-layer metalized paints, bi-components and water based paints. For spray gun uses with special products it necessary to require approval from producer in order to conform technical features of machine for processing indicated special products. BERIZZI SRL is not responsible for injury which might be caused from personnel not trained or not authorized and for using machine for different purposes as indicated. **It remains in any cases forbidden gun use for distribution of inflammable products or high toxic elements like gasoline, herbicides and pesticides.**

4.4 Technical data

Max. working outlet pressure: 200 bar/ 2900 psi

Max. air pressure: 7 bar/100 psi

Max. fluid temperature: 43°

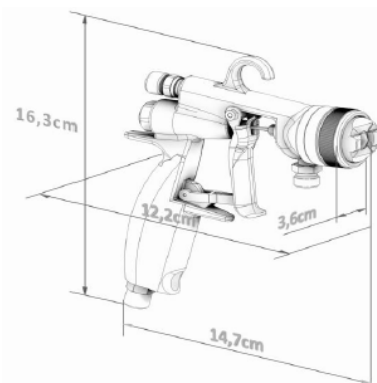
Fluid and air inlet: 1/4" nps

Weight: 520 gr

Spray gun body: forged aluminum

Trigger resistance: 17.35 N

Wetted parts: stainless steel, carbide, PTFE



Orifice dimension (mm)	* Flow rate, fl oz/min (lpm)		Maximum fan wideness at 305mm (12")							
	at 41 bar (600 psi, 4,1 Mpa)	at 70 bar (1000 psi, 7Mpa)	from 2 to 4 (100)	from 4 to 6 (150)	from 6 to 8 (200)	from 8 to 10 (250)	from 10 to 12 (300)	from 12 to 14 (350)	from 14 to 16 (400)	from 16 to 18 (450)
0,007 (0,178)	4,0 (0,1)	5,2 (0,15)	107	207	307	407				
0,009 (0,229)	7,0 (0,2)	9,1 (0,27)	109	209	309	409	509	609		
0,011 (0,279)	10,0 (0,3)	13,0 (0,4)	111	211	311	411	509	611		
0,013 (0,330)	13,0 (0,4)	16,9 (0,5)		213	313	413	513	613		
0,015 (0,381)	17,0 (0,5)	22,0 (0,7)		215	315	415	515	615	715	815
0,017 (0,432)	22,0 (0,7)	28,5 (0,85)		217	317	417	517	617	717	817
0,019 (0,483)	28,0 (0,8)	36,3 (1,09)		219	319	419	519	619	719	819
0,021 (0,533)	35,0 (1,0)	45,4 (1,36)		221	321	421	521	621	721	821
0,023 (0,584)	40,0 (1,2)	51,9 (1,56)		223	323	423	523	623	723	
0,025 (0,635)	50,0 (1,5)	64,8 (1,94)		225	325	425	525	625	725	825

4.5 Setting-up

The gun must be fed with a maximum pressure of 200 bar. To make a spray painting system and use the gun for its purpose, it must be completed with other components. Painting must take place in a special approved paint spray booth with suction system. Check your local electrical code and pump manual for detailed grounding information. Use only electrically conductive fluid hoses. Ground the spray gun via a properly grounded fluid supply hose and pump.

Air line

1. Install an air filter on the gun air line to ensure a dry, clean air supply to the gun. Dirt and moisture can ruin the appearance of your finished worked piece.
2. Install an air pressure regulator on the gun air line to control air pressure to the gun.
3. Install an air shutoff valve on the gun air line and on the pump air line, to shut off air to the gun.
4. Use a 3/16" (5mm) or even larger air hose to minimize excessive pressure drop in the hose.
5. Connect the air hose to the gun air inlet.
6. Connect the other end of the hose to the outlet of the air shutoff valve.



Fluid line

Before connecting the fluid line, blow it out with air and flush it with solvent. Use solvent which is compatible with the fluid to be sprayed. If better control of fluid pressure is needed, install a fluid regulator on the fluid line to better control fluid pressure to the gun.

1. Use a fluid to remove coarse particles and sediment, to avoid clogging the spray tip and causing finishing defects.
2. Connect the fluid hose to the gun fluid inlet. If desired, install a fluid swivel connector at the gun inlet for best maneuverability.
3. Connect the other end of the fluid hose to the pump fluid outlet.



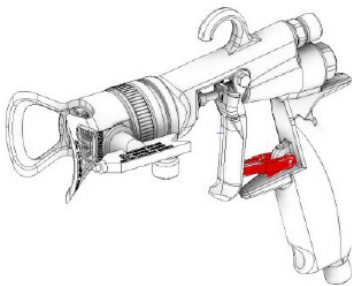
Setup

The fluid flow and pattern width depend on the size of the spray tip, the fluid viscosity and the fluid pressure. Install a spray tip in the gun. Tighten the air cap retaining ring firmly by hand to ensure a good seal between the tip gasket and the diffuser.

Pressure relief procedure

The system pressure must be manually relieved to prevent the system from starting or spraying accidentally. Fluid under high pressure can be injected through the skin and cause serious injury. To reduce the risk of an injury from injection follow the Pressure Relief Procedure whenever is needed to relieve the pressure, stop spraying, check or service any of the system equipment, install or clean the spray tip.

1. Engage the trigger lock.



2. Shut off the pump. See pump manual.
3. Shut off the gun air supplier.
4. Disengage the trigger lock.
5. Hold a metal part of the gun firmly to a grounded metal pail. Trigger the gun to relieve pressure.

6. Open the fluid drain valves in the system, having a waste container ready to catch drainage. Leave drain valve open until you are ready to spray again.
7. Engage the trigger lock.
8. If you suspect the spray tip or hose is clogged or that pressure has not been fully relieved after following the steps above, Loosen very slowly the tip guard retaining ring or hose end coupling to relieve pressure gradually, then loosen completely.
Clear hose or tip obstruction.

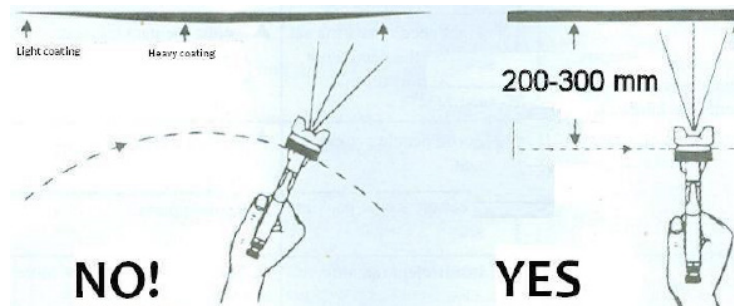


High pressure air-assisted airless spray gun with air atomization

The air-assisted airless spray gun MACH3 combine airless and air spraying concepts. The spray tip shake the fluid into a fan pattern and does a conventional airless spray tip. Air from the air cap further atomizes the fluid and completes the atomization of the paint tails into the pattern to produce a more uniform pattern. The width of the pattern can be adjusted by pattern adjustment valve. The air-assisted spray gun differs from an air spray gun in that increasing the pattern air reduces the pattern width. To increase the pattern width use less pattern air or a larger size tip. The spray gun has a built-in lead and lag operation. When triggered the gun begins emitting air before the fluid is discharged. When the trigger is released the fluid stops before the air flow stops. This help assure the spray is atomized and prevent fluid buildup on the air cap.

Fluid Application

Hold the gun at the right angle from the surface and do not make an arc with the gun which causes an uneven coat of fluid. To achieve the best results when applying fluid, keep the gun perpendicular to the surface and maintain a consistent distance of 200-300 mm from the object being sprayed. Paint usually parallel strokes.



Spray pattern adjustment

To reduce the risk of component rupture and serious injury, including injection, do not exceed the gun's maximum fluid working pressure of the lowest rated component in the system.

1. Do not turn the gun air supply yet. Set the fluid pressure at a low starting pressure. If a fluid pressure regulator is installed use it to make adjustments. If your system does not have fluid regulator, the fluid pressure is controller by air regulator supplying the pump by below indicated formula:

Pump x Pump Air Regulator Setting = Fluid Ration Pressure

2. Trigger the gun to check the atomization, do not be concerned about the pattern shape yet.
3. Slowly increase the fluid pressure just to the point where a further increase in fluid pressure does not significantly improve fluid atomization.
Close off the pattern adjustment air by turning the knob clockwise all the way. This sets the gun for its widest pattern.

4. Set the atomizing air pressure at about 5psi (3.5 kPa, 0.35bar) when triggered. Check the spray pattern, then slowly increase the air pressure until the tails are completely atomized and pulled into the spray pattern. Setting the air pressure too high will cause material to build up on the air cap and pulled into the spray pattern. Setting the air pressure too high will cause material to build up on the air cap and decrease transfer efficiency.

5 MAINTENANCE

5.1 Ordinari maintenance

Follow the Pressure Relief Procedure before clearing the gun. Methylene chloride with formic or propionic acid is not recommended as a flushing or clearing solvent with this gun as it will damage aluminum and nylon components.

Solvent left in gun air passages could result in a poor quality paint finish. Do not use any clearing method which may allow solvent into the gun air passages.

- Do not point the gun up while clearing it.
- Do not wipe the gun with a cloth soave in solvent; wring out the excess.
- Do not immerse the gun in solvent.
- Do not use metal tools to clean the air cap holes as this may scratch them; scratches can distort the spray pattern.

Discharge pressure, disassemble finger guard and nozzle. Check eventually damages to gaskets: if are broken or damaged, replace them. Check very carefully cleaning of nozzle, plunge into solvent in order to remove internal residual material, blowing air from rear part to eliminate all impurities. Nozzle should be reassembled with its gasket. Disassemble spreader and clean very well with a brush mainly the ball seat.

Do not use metal tools to clean the air cap holes as this may scratch them; scratches can distort the spray pattern. Lubricate periodically packing gland ring. Lubricating should not contain silicone.

5.2 Fluid filter maintenance

Trigger the gun whenever you tighten or remove the diffuser. This keeps the needle ball away from the seating surface and prevents the seat from being damaged.

1. Relieve the pressure.
2. Remove the air cap retaining ring, air cap and spray tip.
3. Disconnect the fluid supply hose and air supply hose from the gun.
4. Connect the solvent supply hose to the gun.
5. Increase the pressure slowly . Point the gun down into a grounded and flush the gun with solvent until all traces of fluid are removed from the gun passages.
6. Turn off the solvent supply.
7. Relieve the pressure.
8. Disconnect the solvent supply hose from the gun.
9. If it is necessary to remove the diffuser to clean, trigger the gun while you remove the diffuser with the gun tool.
10. Dip the end of a soft-bristle brush into a compatible solvent. Do not continuously soak the brush bristles with solvent and do not use a wire brush.
11. With the gun pointed dawn clean the front of the gun using the soft-bristel brush and solvent.
12. Scrub the air cap retaining ring, air cap, diffuser and spray tip with the soft-bristle brush. To clean out air cap holes, use a soft tool such as toothpick to avoid damaging critical surfaces. Blow air through the spray tip to ensure the orifice is clean. Clean the air cap and spray tip daily minimum.



Some applications require more frequent cleaning.

13. If diffuser was removed, trigger the gun while you reinstall the diffuser with the gun tool. Tighten the diffuser securely to obtain a good seal.

14. After clearing the gun, lubricate the following parts:

- Trigger pivot pin;
- Boss on both sides of the gun where the trigger contacts the gun body;
- Fluid needle shaft, behind trigger.

Reversible tip

Spray gun Mach3 could be used with reversible tip. To assemble insert the tip in the guard (ref. 201305) and screw on it on the gun.



To clean the reversible tip please follow this process:

1. Release the trigger and engage the trigger lock
2. Rotate the reversible tip.
3. Disengage the trigger lock, and trigger the gun into a pail to clear the clog. Engage the trigger lock
4. Return the reversible tip to its original position, disengage the trigger lock and continue spraying.



6 GENERAL TROUBLESHOOTING

PROBLEM	CAUSE	SOLUTION
Fluid leakage from packing area	Worn packing or needle shaft	Replace needle assembly
Air leakage from the gun	Air valve not seating properly	Clean or replace air valve
Fluid leakage from front of the gun	Needle ball worn or damaged	Replace needle assembly and seat
	Worn seat assembly	Replace the seat and gasket. The gasket must be replaced whenever the seat assembly is removed. Do not reverse the direction of the plastic seat if it is worn. The seat must be replaced if it is worn
	Fluid viscosity too low for proper	Install the plastic seat
Fluid in the air passage	Spray tip seal leaking	Tighten retaining ring or replace spray tip
	Leaking around seat housing	Replace the gasket. The gasket must be replaced whenever the seat assembly is removed
	Fluid inlet fitting leaking	Replace the fluid tube gasket. The gasket must be replaced whenever the fluid tube connector is removed
Slow fluid shut-off	Fluid buildup on fluid needle components	Remove on clean or replace the fluid needle assembly
No fluid output when triggered	Spray tip plugged	Clean spray tip
	Fluid filter or fluid hose plugged	After tip removal, very slowly loosen the hose end coupling at the gun and relieve pressure gradually. Then loosen completely to clear the obstruction
Flattering or spitting spray	Insufficient fluid supply	Adjust fluid regulator or fill fluid supply tank
	Air in the paint supply line	Check, tighten pump siphon hose connections, bleed air from paint line
	Attempting to feather, partially trigger the gun	Feather will cause drastic reduction of pressure at the tip, resulting in poor atomization and/or spitting
Striping spray	Spray tip partially plugged	Clean or replace spray tip
Irregular pattern	Fluid build-up on spray tip or spray tip partially plugged	Clean or replace spray tip
	On defective side of pattern, air horn holes are partially or totally plugged	Clean air horn holes with solvent and soft brush
Pattern pushed to one side, same side of air cap gets dirty	Air horn holes partially or totally plugged	Clean air horn holes with solvent and soft brush or toothpick
Material build up on air cap	Air pressure setting too high	Reduce inlet pressure. Seven to 10 psi (4.9 to 7.0 kPa, 0.49 to 0.7 bar) air pressure when triggered is recommended

7 DISPOSAL AND DEMOLITION OF PRODUCT

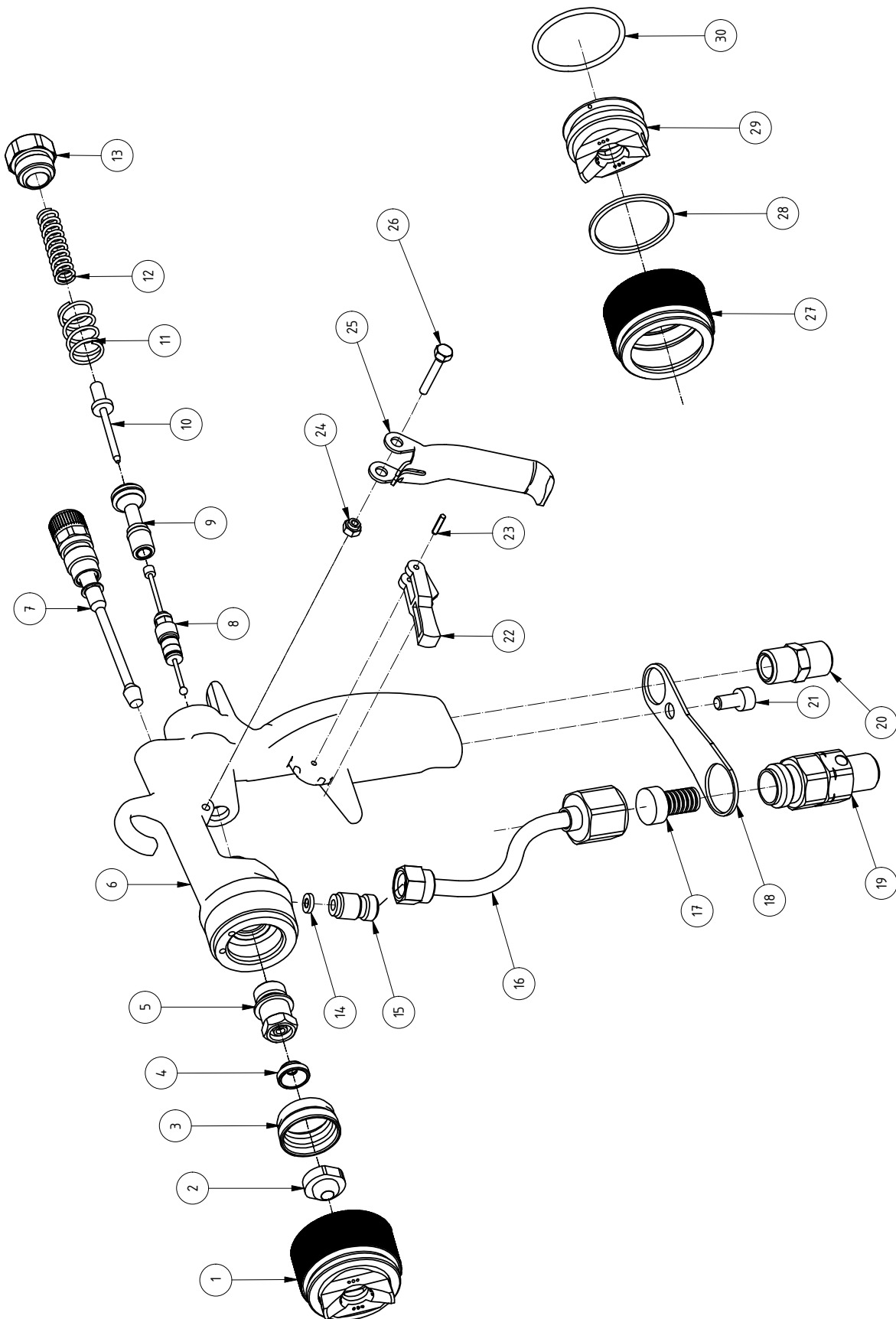
Last life of the equipment is related to its use which can be continuous or intermittent. When is no longer possible maintenance is recommended the replacement of the equipment. The spray gun cannot be abandoned in the environment but must be clean and disassembled into its component parts so that they can be disposed in waste collection centers. Any residue mixtures due to washing equipment should be stored in appropriate containers since their dispersion in the environment is harmful and therefore strictly prohibited.

8 AVAILABLE MODELS

CODE	DESCRIPTION
TT1001	Mach3 with s/s short filter holder + filter + TT1 nozzle + TT1 aircap
TT1001K	Mach3 with s/s short filter holder + filter + KN nozzle + KN aircap
TT1001G	Mach3 gun + filter holder + nozzle GWN + aircap GWN
TT1001W	Mach3 gun + filter holder + nozzle WGM + aircap WGM
TT1001ON	Mach3 gun + filter holder + nozzle ON + aircap ON
TT1001OPN	Mach3 gun + filter holder + nozzle OPN + aircap OPN
TT1201	Mach3 gun + filter holder + tip + tip guard

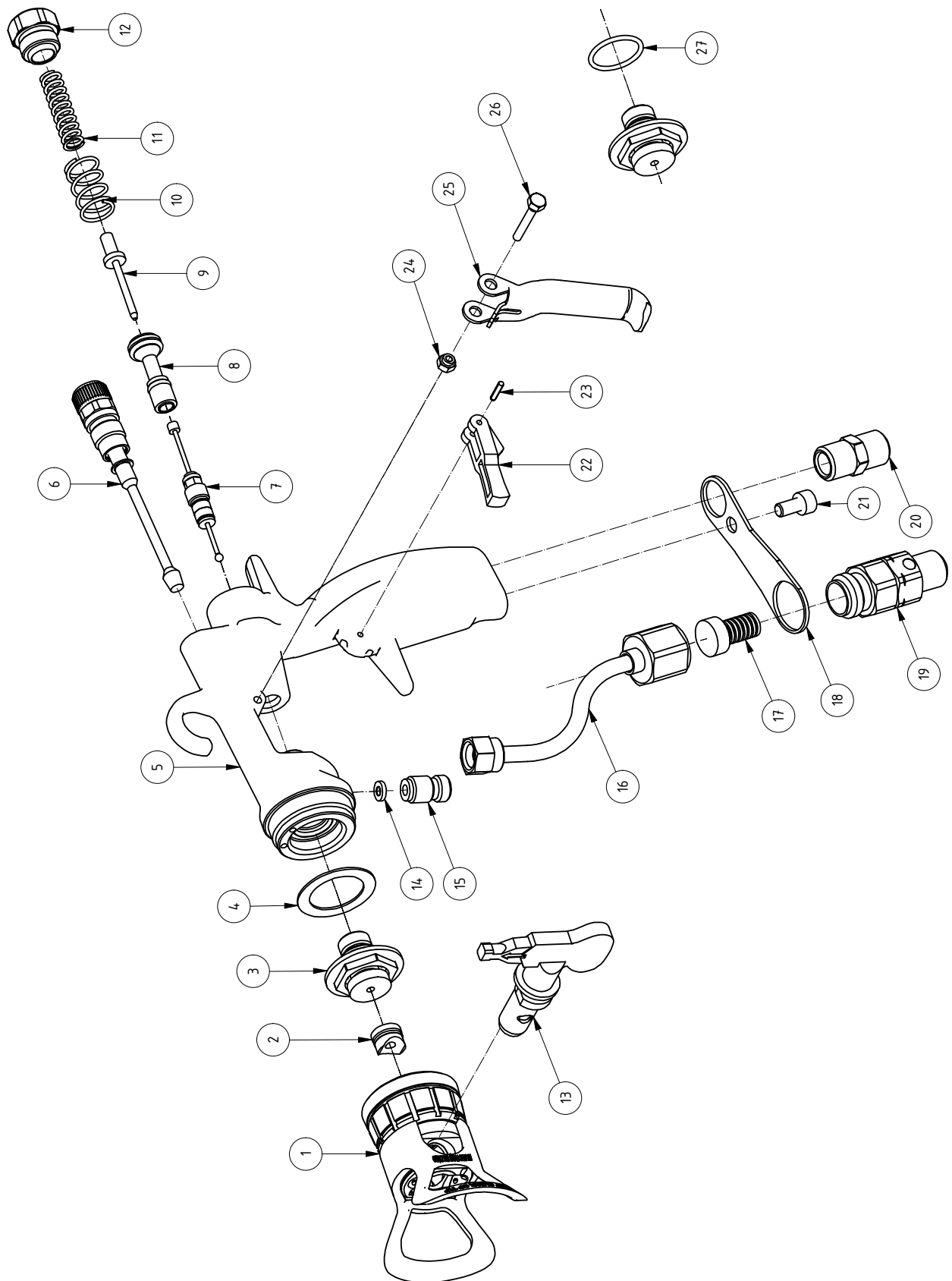
POS	COD.	DESCRIZIONE/ DESCRIPTION	QTA
1	TT1MIX	Testina Aria Tipo BERIZZI / Air Cap Type BERIZZI	1
	TT1MIXK	Testina Aria Tipo KREMLIN / Air Cap Type KREMLIN	
	TT1MIXG	Testina Aria Tipo GRACO / Air Cap Type GRACO	
	TT1MIXOPN	Testina Aria Tipo OPTIMA 2100 / Air Cap Type OPTIMA 2100	1
	TT1MIXON	Testina Aria Tipo OPTIMA 2000 / Air Cap Type OPTIMA 2000	1
2	TTUXXX	Ugello Mix Tipo TT1 / Nozzle Mix Type TT1	1
	KKN4XX	Ugello Mix Tipo KREMLIN / Nozzle Mix Type KREMLIN	1
	GWNXXX	Ugello Mix Tipo GRACO / Nozzle Mix Type GRACO	1
	OPNXXX	Ugello Mix Tipo OPTIMA 2100 / Nozzle Mix Type OPTIMA 2100	1
	ONXXXX	Ugello Mix Tipo OPTIMA 2000 / Nozzle Mix Type OPTIMA 2000	1
3	BBS1377	Kit manicotto versione Optima / Kit Diffusor Optima version	1
4	TTK4053	Kit manicotto versione Berizzi-KN-GWN / Kit diffusor	1
5	TTK4001	Corpo pistola / Gun body	1
6	TTK4050	Kit Regolazione ventaglio aria/ Kit Fan Air Regulation	1
7	TTK4051	Kit Ago Completo / Kit complete needle	1
8	TTK4054	Kit stelo chiusura aria / Air kit shutting stem	1
9	TTK4015	Spillo molla / Pin spring	1
10	TTK4016	Molla aria / Air spring	1
11	TTK4017	Molla materiale / Material spring	1
12	TTK4018	Tappo posteriore / Rear nut	1
13	102003	Guarnizione ingresso materiale / Inlet material gasket	1
14	BBS1691	Nipplo ingresso materiale / Inlet fitting material nipple	1
15	BBS1686	Porta filtro / Filter holder	1
16	FM2802L	Filtro lamellare 100 Mesh / Lamellar filter 100 Mesh	1
17	BBS1673	Piastra supporto filtro / Filter support plate	1
18	BBS1692	Raccordo entrata / Inlet fitting	1
19	TTK4005	Nipplo ingresso aria / Nipple air inlet	1
20	VTCECXUZI	Vite / Screw	1
21	BBS1870	Sicura grilletto / Trigger safety	1
22	SPE210I	Spina elastica / Elastic pin	1
23	BBS4052B	Dado per perno grilletto / Nut for trigger pin	1
24	BBS1869	Grilletto / Trigger	1
25	BBS4052A	Perno grilletto / Trigger pin	1
26	KN1072	Ghiera testina / Air cap nut	1
27	KN1020A	Guarnizione piatta per testina / Aircap flat gasket	1
28	KN1019A	Guarnizione per testina / Aircap gasket	1
29	KN1012A	Guarnizione per manicotto / Diffuser gasket	1

ESPLOSO MACH3 compatibile WAGNER/ MACH 3 COMPATIBLE with WAGNER EXPLODED VIEW



POS	COD.	DESCRIZIONE/ DESCRIPTION	QTA
1	TT1MIXW	Testina Aria Tipo WAGNER / Air Cap type WAGNER	1
2	WGMXXX	Ugello Mix Tipo WAGNER / Nozzle Mix Type WAGNER	1
3	WA1009	Guarnizione porta testina / Air Cap holding gasket	1
4	WA1010	Guarnizione porta ugello / Nozzle holding gasket	1
5	BBS1775	Kit manicotto vesione WGM / Kit Diffusor WGM	1
6	TTK4002	Corpo pistola versione WGM / Gun Body WGM	1
7	TTK4050	Kit regolazione ventaglio aria/ Kit Fan air regulation	1
8	TTK4051	Kit ago completo / Kit complete needle	1
9	TTK4054	Kit stelo chiusura aria / Air kit shutting stem	1
10	TTK4015	Spillo molla / Pin spring	1
11	TTK4016	Molla aria / Air spring	1
12	TTK4017	Molla materiale / Material spring	1
13	TTK4018	Tappo posteriore / Rear nut	1
14	102003	Guarnizione ingresso materiale / Inlet material gasket	1
15	BBS1691	Nipplo ingresso materiale / Inlet fitting material nipple	1
16	BBS1686	Porta filtro / Filter Holder	1
17	FM2802L	Filtro lamellare 100 Mesh / Lamellar filter 100 Mesh	1
18	BBS1673	Piastra supporto filtro / Filter support plate	1
19	BBS1692	Raccordo entrata / Inlet fitting	1
20	TTK4005	Nipplo ingresso aria / Nipple air inlet	1
21	VTCECXUZI	Vite / Screw	1
22	BBS1870	Sicura grilletto / Trigger safety	1
23	SPE210I	Spina elastica / Elastic pin	1
24	BBS4052B	Dado per perno grilletto / Nut for trigger pin	1
25	BBS1869	Grilletto / Trigger	1
26	BBS4052A	Perno grilletto / Trigger pin	1
27	WA1005	Ghiera testina / Air cap nut	1
28	WA1007	Guarnizione piatta per testina graffitata / Aircap flat gasket	1
29	WA1001	Testina / Aircap gasket	1
30	WA1008	Guarnizione per testina / Aircap gasket	1

ESPLOSO MACH3 con UGELLO REVERSIBILE/ MACH 3 with REVERSIBLE TIP EXPLODED VIEW



POS	COD.	DESCRIZIONE/ DESCRIPTION	QTA
1	201305	Base ugello reversibile / Reversible tip guard	1
2	201204	Guarnizione ugello / Tip gasket	1
3	TTK4062	Kit manicotto / Kit diffusor	1
4	TTK4064	Guarnizione piatta per manicotto / Diffuser flat gasket	1
5	TTK4001	Corpo pistola / Gun body	1
6	TTK4050	Kit regolazione ventaglio aria/ Kit fan air regulation	1
7	TTK4051	Kit ago completo / Needle complete kit	1
8	TTK4054	Kit stelo chiusura aria / Air kit shutting stem	1
9	TTK4015	Spillo molla / Pin spring	1
10	TTK4016	Molla aria / Air Spring	1
11	TTK4017	Molla materiale / Material spring	1
12	TTK4018	Tappo posteriore / Rear nut	1
13	FMC6XXX	Ugello Reversibile Fine Finish / Fine finish reversible tips	1
14	102003	Guarnizione ingresso materiale / Inlet material gasket	1
15	BBS1691	Nipplo ingresso materiale / Inlet fitting material nipple	1
16	BBS1686	Porta filtro / Filter holder	1
17	FM2802L	Filtro lamellare 100 Mesh / Lamellar filter 100 Mesh	1
18	BBS1673	Piastra supporto filtro / Filter support plate	1
19	BBS1692	Raccordo entrata / Inlet fitting	1
20	TTK4005	Nipplo ingresso aria / Nipple air inlet	1
21	VTCECXUZI	Vite / Screw	1
22	BBS1870	Sicura grilletto / Trigger Safety	1
23	SPE210I	Spina elastica / Elastic Pin	1
24	BBS4052B	Dado per perno grilletto / Nut for trigger pin	1
25	BBS1869	Grilletto / Trigger	1
26	BBS4052A	Perno grilletto / Trigger pin	1
27	KN1012A	Guarnizione per manicotto / Diffuser gasket	1