



**PLASTER TECHNOLOGY**

[www.hama-equipment.com](http://www.hama-equipment.com)

# HAMA GR1500 Repair gun



**USER MANUAL**  
INCLUDING SPARE PARTS LISTS



READ THIS MANUAL BEFORE USING THE MACHINE

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This publication has been prepared with the greatest possible care. Nevertheless, it may not be entirely accurate. HAMA accepts no liability for any errors in this publication or the possible consequences thereof.

#### *Language*

- Original manual.
- Translation of the original manual.

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## PREFACE

Dear customer, Congratulations on choosing a HAMA GR1500 repair gun. This innovative repair gun makes it possible to spray plaster in smaller areas without a complete plastering machine. Thanks to the quality of HAMA products, you can look forward to years of low maintenance plaster application.

With its compact yet robust construction, the HAMA GR1500 repair gun is also ideally suited for repairing both smooth and textured plaster finishes. The simple control enables you to work safely and efficiently.

For your safety it is important that the repair gun is operated and maintained correctly. Read this manual before using the repair gun. Follow the instructions to avoid injury and property damage. Do not hesitate to contact HAMA if you have questions.

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# 1 INTRODUCTION

## Intended use

The HAMA GR1500 repair gun is only intended for plaster application in combination with the HAMA H455 compressor.

## Intended audience

Only adequately trained people who have read and understood this manual may use and maintain the HAMA GR1500 repair gun.

## About this manual

This manual describes the operation and maintenance of the HAMA GR1500 repair gun.

## Supplied documentation

The repair gun is accompanied by the following documentation:  
User manual (including spare parts list)

## Availability

The user manual must always be near the HAMA GR1500 repair gun. If the manual is lost, you can request a new copy from HAMA or download it from [www.hama-equipment.com](http://www.hama-equipment.com).

## Conventions used in this document

- This symbol indicates a summary of information.
- 1. Preceding numbers indicate the order in which steps must be performed.
- [1.] Numbers inside square brackets are references to parts in an illustration.

## Left, right, front and rear

The designations "left", "right", "front" and "rear" are to be understood as relative to the spraying direction, where the nozzle is the "front".

## Customer service

If you have questions about the HAMA GR1500 repair gun that are not answered in this user manual, please do not hesitate to contact HAMA. For other instructions you can naturally always consult our website [www.hama-equipment.com](http://www.hama-equipment.com).

## Warranty

You are, of course, entitled to warranty coverage if a defect develops despite correct operation and completion of the prescribed maintenance. The warranty does not cover the following:

- Normal wear
- Failure to heed instructions on the repair gun
- Ignoring the instructions in this manual
- Inadequate maintenance
- The use of non-OEM parts
- Abnormal external influences
- A modification not authorized by HAMA

HAMA honours the warranty conditions laid down in the METAALUNIE terms and conditions. A summary of the HAMA general terms and conditions is available online on our website.

### Machine identification

Fill in the identification data for the device.  
These data can be found on the type plate.  
The type plate is located on the gun's material holder. Fill in the delivery date as well.

HAMA® Type	GR1500	Max pres. (bar)	8
Serial nr.		Volume (L)	1.5
Year		Weight (kg)	3
		www.hama-equipment.com Handelsstraat 36b, 7482 GW Haaksbergen, Holland	
			

Type :

Serial number (s/n) :

Year of manufacture :

Delivery date :

You can also register the device online at [www.hama-equipment.com](http://www.hama-equipment.com). By registering your product, you make it possible for us to further improve your experience. Registration is beneficial to you in a number of ways, one of which is that we will keep you up to date on the latest developments concerning technical improvements and use of the HAMA GR1500 repair gun. You will also receive news about the latest developments at HAMA.

## EC declaration of conformity (only valid for Europe)

Manufacturer: Modulen & Engineering Menzing B.V.  
Address: Handelsstraat 36b  
Postcode: 7482 GW

### Product identification:

Description of the product: Repair gun  
Type or model: GR1500  
Serial number: Pxxxxxx-xxx

### Meets the requirements:

EU Directive: 2006/42/EC relating to machinery  
97/23/EC, relating to pressure equipment

Haaksbergen, July 2015



E. Jansen  
Director  
Modulen & Engineering Menzing B.V.



## 2 SAFETY

### Introduction

Read this manual before using the device. Follow the instructions to avoid injury and property damage. Do not hesitate to contact HAMA if you have questions.

**REMAIN ALERT! YOUR SAFETY AND THE SAFETY OF OTHERS DEPENDS ON IT!**

### Symbols in this manual

The following symbols are used in this manual:



#### WARNING

Indicates a risky situation which, if not avoided, may result in severe bodily injury or death.

#### CAUTION

Indicates a risky situation which, if not avoided, may result in property damage.



This symbol indicates additional information and tips. This symbol is not used to indicate a risky situation.

The device may not be modified without written permission from the manufacturer. Modifications to the device may cause hazardous situations.

## 3 GENERAL DESCRIPTION

### Introduction

The GR1500 repair gun consists of the following parts:

- Pistol grip
- Material holder
- Cartridge
- Material regulator
- Mixing chamber
- Nozzle
- Pressure regulator
- Material and air valve

### Pistol grip

The pistol grip applies pressure to the cartridge in the gun, pushing out the material.

### Material holder

The material holder is where a cartridge of plaster is placed. Two gland nuts at the ends of the material holder hold the material holder sealing caps in place.

### Cartridge

The cartridge can be filled with the material that is to be sprayed in advance. This makes it possible to fill various cartridges with different materials days ahead of time. The cartridges can be easily filled and sealed using a HAMA cleaning kit.

### Material regulator

The material regulator is located on the rear cap, and its purpose is to reduce the pressure of the compressed air supplied via the pistol grip. This fine adjustment is an important means of regulating the amount of delivered material.

### Mixing chamber

The mixing chamber is where the air stream from the compressor and the material are mixed prior to being guided to the nozzle.

### Nozzle

The air in the mixing chamber exits through the peripheral air passages of the nozzle, where it carries along the material to be sprayed that is being pushed out through the central material passage. The nozzle ultimately determines the spray pattern.

### Pressure regulator

The pressure regulator provides a means of adjusting the pressure of the compressed air in the nozzle, which provides control over the desired spray pattern.

### Material and air valve

The red material and air valves on the front of the repair gun are used to shut off the flow of material and compressed air respectively.

## 4 COMMISSIONING

### Transport damage

Check the compressor repair gun for possible transport damage at the time of delivery. Report transport damage to the carrier and your supplier immediately.

### Compressor

Use a compressor that can produce an operating pressure of 6 to 8 bar, like the HAMA H455 compressor.

### First use

Make sure there is a test surface available for correct adjustment of the repair gun. The necessary adjustment may differ for each brand, type and thickness of material. The initial steps for operation are described in the next chapter.



Personal protective equipment, such as safety goggles, hearing protection and respiratory protection, must be worn while using the repair gun.

## 5 OPERATION

### Introduction

This chapter provides information about operating the compressor.



- Wear hearing protection. Working with the repair gun or being present in the immediate vicinity of repair work may lead to hearing damage.
- Wear eye protection (safety goggles). The air pressure may cause small hard or liquid particles to deflect off the wall causing eye injury.
- Wear respiratory protection. Most plaster products contain solvents. This could cause dizziness or even loss of consciousness.
- Only people with special training are permitted to operate the device.



Never direct the repair gun toward a person. Contact with plastering materials can be hazardous to the health. Even contact with just compressed air can be harmful to the body.

### 5.1 Step-by-step instructions for operation of the GR1500 repair gun

#### Prior to the repair work

1. Ensure that the fitted nozzle has at least a 4 mm opening. Smaller nozzles let too little material through.
2. Ensure that the red air and material valves on the front of the gun are closed.
3. Disconnect the compressed air hose from the pistol grip and unscrew the front black plastic union nut from the material holder. Now remove the front of the gun.
4. Slide the cartridge into the gun's material holder and then close it again by mounting the front of the gun and tightening the union nut.
5. Now reconnect the compressed air hose to the front of the pistol grip.
6. Connect the air supply from the compressor and ensure that the pressure does not exceed 8 bar.

7. First set the material regulator at the rear to a high pressure by turning it clockwise.
8. Open the air valve at the front of the gun completely.
9. Pull back the trigger on the pistol grip to pressurize the cartridge.
10. Now open the material valve completely.
11. Regulate the supply of material with the regulator knob at the back of the GR1500. The pressure must never be set so low that material no longer comes out. Otherwise the resulting pressure in the nozzle can push back against the piston.
12. Use the pressure regulator to regulate the compressed air and achieve the desired spray pattern.

**CAUTION**

The steps above must be performed in the order shown!

**After the repair work**

1. Always close the material valve first.
2. Release the trigger in the pistol grip, which purges the air from the material holder and cartridge.
3. Close the air valve.
4. If the cartridge is empty, it should be removed.
5. Disconnect the compressed air hose from the pistol grip and unscrew the front union nut from the material holder. Now remove the front of the gun.
6. Remove the cartridge from the gun's material holder.
7. Clean the gun immediately after the repair work, in accordance with the cleaning instructions in the next chapter.
8. Close the repair gun again by mounting the front of the gun and tightening the union nut.
9. Now connect the compressed air hose to the front of the pistol grip.

## 5.2 Cleaning

### CAUTION

Keep the device clean. This not only makes it nicer to work with but will also bring any defects to light. In addition, instructions and warnings on the machine remain legible.

1. Relieve the pressure in the repair gun, and disconnect the compressed air hose.
2. Unscrew the front black plastic union nut from the material holder and remove the entire front of the gun.
3. Remove the cartridge from the gun and seal it with the provided cap so it does not harden.
4. Take an empty cartridge and fill it with water.
5. Place the water-filled cartridge in the gun and seal it with the union nut.
6. Reconnect the compressed air hose to the repair gun and spray about a third of the water.
7. Shake the gun side to side and back and forth, and spray the rest of the content.
8. Relieve the pressure in the repair gun, and disconnect the compressed air hose.
9. Unscrew the front black plastic union nut from the material holder and remove the entire front of the gun.
10. Now open the material valve and remove the screw cap and the nozzle.
11. Use a drill bit to clean the air and material passages, working until every last bit of plaster is removed.
12. Use a brush to clean the rest of the screw cap and nozzle.
13. Use a 200 mm long, Ø20 mm spiral brush to remove all the caked-on plaster residue from the mixing chamber, the ball valve and the aluminium cap.
14. Now put all the removed parts back together.

## 6 MAINTENANCE

### Introduction

This chapter provides information about maintaining the device. Contact HAMA for maintenance that it not covered in this manual.



#### Safe maintenance

- When performing maintenance and repairs to the HAMA GR1500 repair gun, the device must be depressurized.
- When performing maintenance and repairs, always remove the compressed air hose to prevent accidental activation!
- Do not use the HAMA GR1500 repair gun if any part is worn or damaged. Only replace parts with genuine HAMA parts.
- Wear close-fitting overalls, safety goggles and safety shoes.
- Use appropriate tools of the correct size.
- Tighten bolts and nuts with the correct torque (see “Tightening torques” section).



NEVER use your fingers to try to locate a leak. Use a piece of cardboard. Compressed air under high pressure can contain compressor oil that can penetrate your skin. The penetration of oil is an emergency situation. Danger of infection! Seek the help of a doctor immediately!

### 6.1 Daily maintenance

- Inspect the hoses for damage.
- Check for air and material leaks.
- Check the safety markings and hazard designations.
- Check whether all safety devices are still intact and present as they were during commissioning.

## 6.2 Tightening torques



Incorrectly tightened bolts and nuts can cause accidents. Tighten bolts and nuts in accordance with the table below (unless otherwise indicated in this manual).



Original bolts may only be replaced with bolts having the same dimensions and bolt class. Bolts that do not match the original ones can cause accidents.

Dimension	Tightening torques		
	Class 8.8	Class 10.9	Class 12.9
	Nm	Nm	Nm
M6	10	15	18
M8	25	37	43
M10	51	75	87
M12	87	130	150
M12 x 1.5	92	135	155
M14	140	205	240
M14 x 1.5	150	220	260
M16	215	310	370
M16 x 1.5	230	340	390
M18	300	430	510
M18 x 1.5	350	490	580
M20	430	620	720
M20 x 1.5	480	690	800
M22	580	830	970
M22 x 1.5	640	920	1070
M24	740	1060	1240
M24 x 2	810	1160	1350
M24 x 1.5	830	1180	1380
M27	1100	1550	1850
M27 x 2	1190	1700	2000
M30	1500	2100	2500
M 30 x 2	1610	2300	2690
M33	2000	2800	3400
M36	2600	3700	4300



The bolt class is indicated on the bolt head. The tightening torques apply for dry bolts.



### 6.3 Maintenance schedule

#### Routine maintenance

Part	inspect/clean	Daily	Monthly	Annually
General	Inspection for leaks	✓		

## 7 TROUBLESHOOTING

### Introduction

Consult the table to resolve problems. Contact your technical department or HAMA if you cannot resolve the problem.

Problem	Possible cause	Solution
Little or no material comes out	The material valve is closed	Open the material valve completely
	No cartridge has been fitted	Fit new cartridge, filled with material
	The cartridge is empty or the content has hardened	Fit new cartridge, filled with material
	The material passage is clogged	Check the material passage from the beginning to the nozzle and remove any blockage.
	The nozzle is clogged	Remove the blockage from the material passage with a drill bit.
	The compressed air has not been connected	Connect compressed air hose
	Compressor is off or is supplying too little pressure	Switch on the compressor and set the pressure no higher than 8 bar.
	The compressed air hose from the pistol grip to the material regulator is leaking or kinked	Replace the small compressed air hose
	The pistol grip is defective	Replace the pistol grip
	The material regulator is defective	Replace the material regulator
Motor runs, but there is no pressure (or too little).	The compressed air hose is closed	Open the compressed air valve completely
	The pressure regulator is completely closed	Open the pressure regulator
	The compressor is supplying too little pressure	Adjust the compressor to an operating pressure of 6 to 8 bar
	The compressor is supplying too little volume	Use a compressor that can produce 450 litres/min
	The nozzle is clogged	Remove the blockage from the air passage with a drill bit.
The spray pattern is not good	There is not enough material in the cartridge	Replace the empty cartridge with a full cartridge
	The material regulator is not adjusted correctly	Adjust the material regulator
	The pressure regulator is not adjusted correctly	Adjust the pressure regulator
	The nozzle is clogged	Remove the blockage from the material and air passages with a drill bit.

## 8 ENVIRONMENT

### Introduction

Environmental impact must be prevented as much as possible during use and maintenance of the HAMA GR1500 repair gun.

### Measures to protect the environment

- Operate and maintain your GR1500 repair gun in accordance with the instructions in this manual.
- Dispose of oil filters, spent oil and condensation in accordance with national regulations.
- Dispose of the defective parts in accordance with national regulations.

## 9 DISPOSAL

### Introduction

With normal use and proper maintenance the HAMA GR1500 repair gun will have a very long service life. When the device is disposed of after many years, this must be done in a safe and environmentally responsible manner. Many of the materials used are recyclable.



### Disposal procedure

Follow this procedure:

1. Wear close-fitting overalls, safety shoes and safety glasses.
2. Use appropriate tools of the correct size.
3. Use suitable, safety-tested lifting equipment.
4. Dispose of all oil in accordance with national regulations.
5. Remove all rubber and plastic parts.
6. Dispose of all parts in accordance with national regulations.

## 10 TECHNICAL SPECIFICATIONS

### Dimensions and weights

Length	mm	670
Width	mm	110
Height	mm	290
Weight	kg	3

### Machine in general

Max. operating pressure air	bar	8
Max. operating pressure plaster	bar	8
Tank volume (cartridge)	L	1,5
Min. operating temperature	°C	-20
Max. operating temperature	°C	50
Max. noise level	dB(A)	90



The noise level shown above is measured at a distance of 1 metre from the repair gun.

## 11 OPTIONS

### Nozzles

Various optional nozzles are available for a variety of plaster aggregates and a range of spray distributions.

See the chapter on “spare parts”

### Cartridges

Various types of cartridge packs are available. These packs differ in the number of cartridges with sealing caps.

See the chapter on “spare parts”

### Cleaning kit

The HAMA cleaning kit consists of a blister package containing a filling cap for easy filling of your HAMA Duo-Power 2.0 cartridges with plaster prior to a job. This kit also contains a sealing cap to protect the content of one cartridge from hardening, and a Scotch Brite pad for removing plaster residue.

Item number: 108409BP000

## 12 SPARE PARTS

### Spare parts

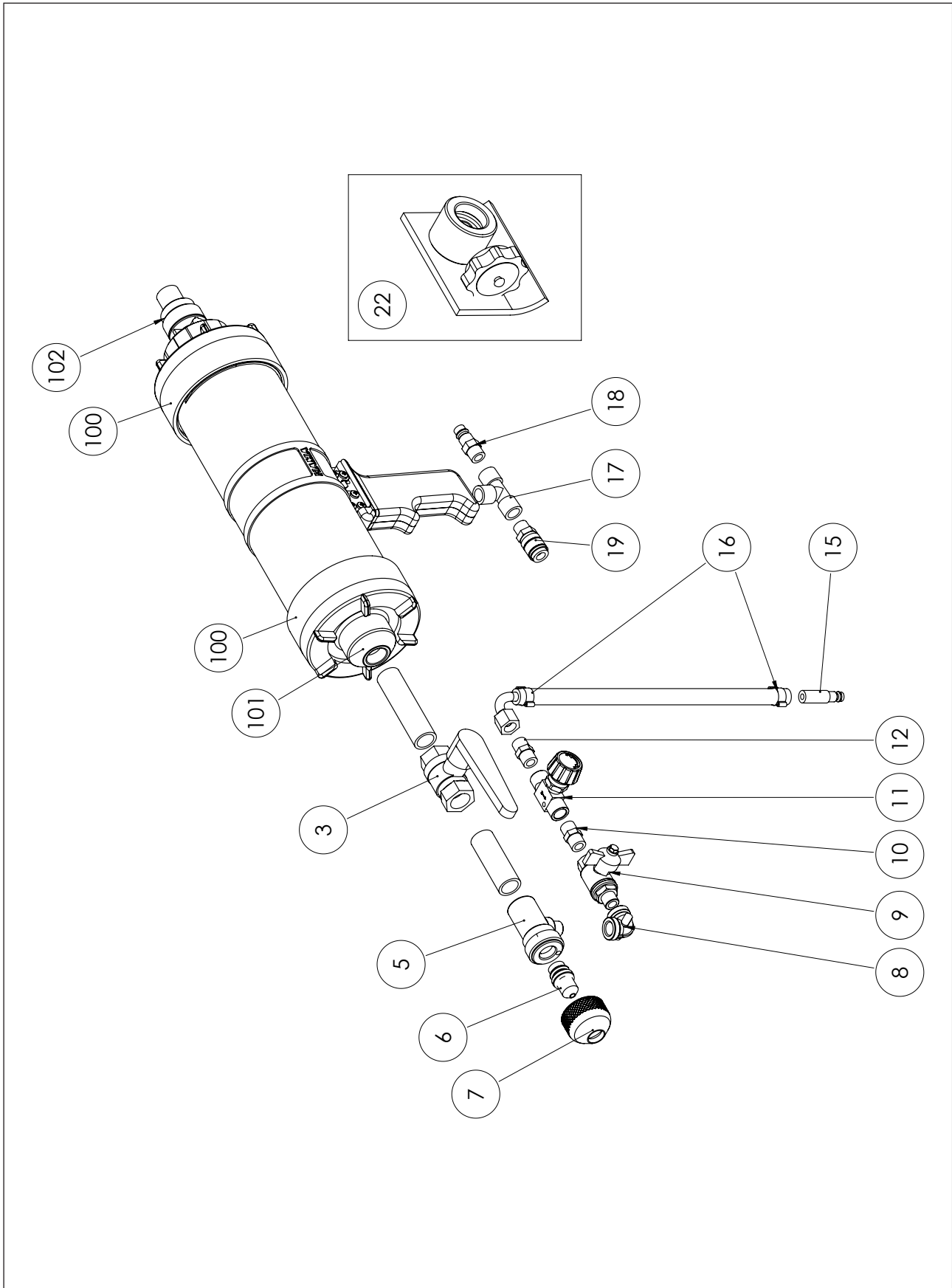
Use genuine HAMA parts. You can order these machine-specific parts at [www.hama-equipment.com](http://www.hama-equipment.com). Genuine HAMA parts are specifically designed for this repair gun. The use of non-OEM parts can have a negative impact on the operation of the HAMA GR1500 repair gun and can make the repair gun unsafe. HAMA accepts no liability for damage or injury resulting from the use of non-OEM parts.



Parts without a part number are not sold by HAMA as spare parts. However, these are not machine-specific and are available from general suppliers of technical parts.

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Repair gun





Pos.	HAMA part number	Description
0	108401AS000	Repair gun GR1500
3	108401BP013	Ball valve 1/2"
5	108401AS104	Mixing chamber MC3V 1/2"
6	108400AS205	Nozzle STNK 5 mm with O-ring
7	108401AS105	Screw cap HAMA SF / STNK with O-ring
8	108401BP016	Elbow 1/4"
9	108401BP017	Ball valve 1/4"
10	108401BP018	Double nipple 1/4"
11	108401BP019	Needle valve 1/4"
12	108401BP020	Double nipple 1/4" male 60° bore
15	108401BP023	Mini barbed quick-connect nipple SPI 9
16	108401SP010	Double crimp-type hose clamp 13-15 (5x)
17	108401BP025	T-fitting bronze 3x1/4" female
18	108401BP026	Barbed quick-connect nipple 1/4" male
19	108401BP027	Mini quick-connect nipple 1/4" male
22	108401AS106	Cleaning kit GR1500
100	108401PA003	Union nut black - GR1500
101	108401PA002	Nosepiece GR1500
102	108401AS103	Pressure regulator GR1500 complete

## HAMA nozzle STNK

STNK = standard nozzle

HAMA part number	Description
108400AS203	Nozzle STNK Ø3 mm with O-ring
108400AS204	Nozzle STNK Ø4 mm with O-ring
108400AS235	Nozzle STNK Ø3.5 mm with O-ring
108400AS205	Nozzle STNK Ø5 mm with O-ring



## HAMA nozzle SF

SF = nozzle for fine particles

HAMA part number	Description
108400AS253	Nozzle 3 mm SF with O-ring
108400AS254	Nozzle 4 mm SF with O-ring
108400AS255	Nozzle 5 mm SF with O-ring



**Cartridge**

HAMA 1.5 L cartridge

HAMA part number	Description
108401BP001	HAMA 1.5 L cartridge GR1500
108401SP001	HAMA 1.5 L cartridges GR1500 with soft piston (8 pcs) <ul style="list-style-type: none"> <li>• 8 caps</li> <li>• 8 O-rings</li> </ul>
108401SP002	HAMA 1.5 L cartridges GR1500 with soft piston (16 pcs) <ul style="list-style-type: none"> <li>• 16 caps</li> <li>• 16 O-rings</li> </ul>
108401SP003	HAMA 1.5 L cartridges GR1500 with soft piston (32 pcs) <ul style="list-style-type: none"> <li>• 32 caps</li> <li>• 32 O-rings</li> </ul>
108401SP004	HAMA 1.5 L cartridges GR1500 with hard piston (8 pcs) <ul style="list-style-type: none"> <li>• 8 caps</li> <li>• 8 O-rings</li> </ul>
108401SP005	HAMA 1.5 L cartridges GR1500 with hard piston (16 pcs) <ul style="list-style-type: none"> <li>• 16 caps</li> <li>• 16 O-rings</li> </ul>
108401SP006	HAMA 1.5 L cartridges GR1500 with hard piston (32 pcs) <ul style="list-style-type: none"> <li>• 32 caps</li> <li>• 32 O-rings</li> </ul>

**Cartridge accessories**

HAMA part number	Description
108401BP029	HAMA cap for cartridge GR1500
108401BP003	O-ring for GR1500 cartridge
108401BP002	HAMA piston cartridge GR1500 soft
108401BP031	HAMA piston cartridge GR1500 hard

