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1. General:

Prior to use, please read the instructions completely and precisely follow the directions given. Only properly trained people may work with the device. Improper use, modifications or combination with unsuitable, third party parts can cause damage to property, the operator's health or third parties. In such cases, ewo shall assume no liability whatsoever.

Applicable safety regulations, workplace provisions and work safety regulations must be complied with and accident prevention rules of the accident prevention and insurance associations must be observed.

2. Technical Specifications

- Type of construction: HVLP (high volume low pressure)

- Air connection: G 1/4, exterior
- Operating pressure: 2 bar (28,6 psi)
- Nozzle: Ø 1,3 mm mounted
- Operating temperature (material): max. 50°C (122°F)

- Air consumption at 0.7 bar: 200 l/min- Weight: 650 g

- Material inlet: Paint feed cup with paint sieve

Recommended Air Pressure: 2 bar (28,6 psi)

With the recommended air pressure, the spray paint gun meets European and North American legal regulations according to which the paint transfer rate over 65% and / or nozzle internal pressure may not exceed 0.7 bar (10 psi).

For pressure regulation we recommend air micrometer 250.01 which can be directly connected to the paint gun's air connection. If the pressure is set further from the paint gun, an air pressure drop through the hose should be taken into account (approx. 0.1 bar / meter).

3. Safety Instructions

Fire and Explosion Hazard

- Do not use any chlorinated hydrocarbons (1.1.1. ethylene trichloride) or acids or alkaline hydrocarbons as solvents since these substances react with paint gun components and can generate dangerous decomposition products.
- Strictly avoid any dealings with fire hazards such as smoking or generating sparks.
- Make sure that the paint system is properly grounded.

Personal Protective Equipment / Health Protection

- Only use the paint gun in spaces with sufficient ventilation.
- Always use suitable hand protection, protective goggles, and a breathing apparatus with a filter specially designed for such purpose.
- Wear regulation protective clothing to avoid any contact with poisonous fumes, solvents and materials used.
- Use of certain paints which contain organic solvents can cause poisoning by toxic fumes. Please be sure to read the technical data sheets on the products used.

Dangers of Improper Use

- Do not point the spray at people or animals.
- Be absolutely sure to use the specified pressure.
- Prior to dismounting and cleaning the spray gun, make sure that it is disconnected from the paint and air supply.
- Only qualified people are allowed to use the equipment.
- No modifications or use of third party parts allowed.



4. Operating

1. General

The air pressure required for spraying is supplied through the air connection screwed into the paint gun handle. The air valve is opened by moving the trigger lever to the first pressure point. Continuing to pull the trigger guard through will pull the paint needle out of the paint nozzle. As a result of gravity, the unpressurized spray medium will flow out of spray head and will be atomized by the air pressure simultaneously streaming out of the spray head. The paint cup lid is equipped with a drip guard which prevents material from escaping from the exhaust hole

2. Start-up

Prior to each use, particularly after cleaning and repair of the device, all screw joints should be inspected to make sure they are tight. This particularly applies to the adjustable regulator of the sprayed material and spray jet. Render the device pressureless when performing repairs. Failure to follow these instructions may lead to accidents for which ewo assumes no liability.

- Firmly attach the nozzle set (use a universal wrench for the paint nozzle). The pray head must be placed so that the number indicated can be read from the front in normal writing position.
- ◆ Prior to attaching to the air connection (G 1/4a) blow out the air hose. The hose must be pressure-resistant for at least 10 bar and solvent-proof (avoid kinks!).
- Open spray regulator all the way, material quantity regulator about 3 turns.

3. Paint Spray Settings

Cirular Spray: Turn spray regulator screw off.

Broad Spray: Spray head tappet vertical, spray regulator screw on. High Spray: Spray head tappet horizontal, spray regulator screw on.

5. Applications

The spray paint gun is designed color transfer to prepared surfaces in the auto body field as well as base and covering coats on metal and wood as well as general industrial painting applications with a considerable reduction in paint fume emissions. Abrasive materials may not be worked on.

For best results, follow these tips:

- 1. Use a pressurized air hose with a minimum internal diameter of Ø 10 mm (0.37").
 - 2. Make sure that the pessurized air is clean and free of water and oil (use a microair filter combination!).

Use according to directions

- 1. Hold the spray gun 100 to 150 mm (3.9" to 5.9") away from the surface to be painted. If the working pressure is too low or the distance of the spray gun to surface too great, paint or lacquer transfer will not be effective.
- 2. Always hold the spray jet of the spray gun vertical to the surface to be painted. Transfer the material in spray paths which are as horizontal as possible. Deviations from the transfer scheme during painting can cause an uneven transfer.
- 3. The material to be transferred must demonstrate a viscosity of 20 to 35 s with a size 4 Ford test cone. These values depend on the specific application and the size of the nozzle used.



Sprayed Surface A

- Air pressure too low
- Paint viscisity too high
- Paint transfer quantity too high



Sprayed Surface B

- Air pressure too high
- Paint viscosity too low
- Paint transfer quantity too low



Sprayed Surface C

- even sprav



Adjust air pressure, paint / lacquer quantity and spray aperture such that the result is an even, sprayed surface like in figure C. Please follow the material manufacturers' recommendations.

6. Troubleshooting and Problem Solving

Problem	Cause	Solution	
Spray shaky, jittery	- Nail seal worn out - Paint nozzle too loose - Cone seat of the nozzle damaged - Nozzle seal worn out or damaged - Not enough material in paint cup	- Replace nail seal - Tighten well - Replace nozzle - Replace seal - Add more material	
Spray uneven	Air holes of the spray head dirty or damaged Center hole of the spray head dirty or damaged Nozzle dirty or damaged	Clean thoroughly (not with metallic objects), if the problem persits, replace nozzle and spray head.	
Air getting into the paint cup	- Paint nozzle too loose - Nozzle damaged	- Tighten well - Replace nozzle	
Paint only comes out of the nozzle at the beginning drips	- Material dried on to the nozzle and needle - Nozzle or needle damaged	- Clean thoroughly - Replace needle and nozzle	
After letting go to the trigger lever air leaks out	- Air valve dirty - Air valve damaged - Air valve seal worn out	- Clean thoroughly - Replace - Replace	

7. Maintenance and Care

CAUTION
DISCONNECT THE AIR AND PAINT SUPPLY BEFORE DISASSEMBLING THE SPRAY PAINT GUN

- 1. Remove any remaining paint in the cup.
- 2. Disassemble the spray paint gun. Prior to doing so, first remove the nozzle needle so as not to damage the sealing face.
- 3. Clean any parts in contact with paint and the nozzle. Clean the other parts with a brush and paint thinner.
- 4. Reassemble the spray gun and spray out a small amount of solvent to rinse out any remaining material.
- 5. Lubricate moving parts.

Spray paint residues in the spray gun can lead to faults in the device and cause distortions of the spray surface.

WARNING

DO NOT CLEAN THE DEVICE WITH METAL PARTS OR OTHER METALLIC OBJECTS AS THIS CAN DAMAGE THE NOZZILE AND SPRAY HEAD. DO NOT IMMERSE THE SPRAY GUN IN SOLVENT.

ONLY USE ewo ORIGINAL PARTS FOR REPLACEMENT PARTS.

8. Refitting

When changing nozzle size, always replace the entire nozzle set. The nozzle set is made up of spray head w/nut (1 and 3), paint nozzle (5) and paint needle (20). These are supplied as a unit. Attach the paint nozzle before the paint needle. Any warranty becomes void if third party parts are used.

9. Repair

Unsrew material quantity regulator and remove PTFE pressure bolts and spring. You can remove the paint needle (20). Remove the pakking screw with the included universal wrench and replace the PTFE needle seal and O-ring.

10. Warranty

The warranty lasts 1 (one) year from the date of purchase.

The warranty is only and exlusively recognized by ewo if the faults are the result of handling, material or assembly defects.

Any damage caused by improper use and maintenance, erroneous start-up or operation, inappropriate use or modification, normal wear and tear and use with unsuitable materials. The warranty does not cover parts worn out due to very abrasive surfaces (e.g. red lead, dispersions, glazes, liquid sandpaper).

The device should be inspected immediately after receipt. Obvious defects should be reported in writing to the supplier company or **ewo** within 14 days of receiving the device in order to avoid losing warranty rights.

Further claims of any type, in particular claims for damage compensation are excluded. This also applies to damage occurring during advising, instruction and presentation. If the buyer wishes immediate repair or replacement before it has been determined if there is an obligation by ewo to replace or repair, the replacement or repair will be carried out at a charge to be paid at the daily rate. If it turns out that the object was covered under the warranty, the buyer shall receive the amount paid for the repair charged or replacement in the form of a credit. Parts to be replaced become our property.

Letters of defects or other disputes do not entitle the buyer or orderer to withhold or delay payment. The device must be shipped to us, postage paid. Assembly costs (time worked and travel costs) as well as shipping and packaging costs cannot be covered by us. Services rendered pursuant to the warranty do not extend its duration. In case of intervention by third parties, the warranty shall be voided.

11. Assembly, Replacement Parts

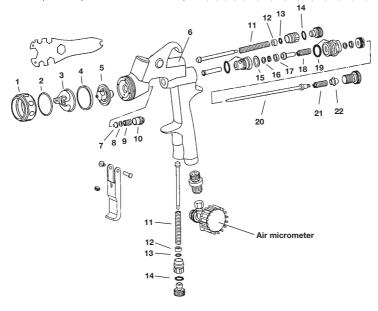
Nozzle sets: Pos. 3, 5 and 20 (250/2, mounted)

	Nozzles Ø [mm]	Nozzle set order no.	Inlet pressure [bar]	transfer quantity [g/min]	Spray form at 10 distance [cm]
ĺ	1,3	250/2	2	124	18
	1,5	250/3	2	175	19
	1,7	250/4	2	212	22
	1,9	250/5	2	250	22
	2,2	250/6	2	292	22

Replacement Parts: Plastic cup with paint sieve 250/20
Aluminium cap with paint sieve 250/22
250/22

Paint sieves (10 x) **250/21**

Replacement part set **250/19** (Pos. 2, 4, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 21, 22)



polished and chemically nickel-plated

stainless steel

aluminum anodized

nickel - plated brass

aluminum, blue anodized

stainless steel, polished

Components: gun body(6)

nozzle / paint needle (5, 20)

spray head (3) adjustment screws spray head nut (1) trigger lever plastic cup (not shown) self adjusting seals air side O-rings

plastic cup (not shown) polyethylene self adjusting seals PTFE air side O-rings NBR material side O-rings EPDM

Box contents: paint gun, plastic cup with paint sieve, replacement part set, cleaning brush, gun lubricant, universal wrench,

steel coupling nipple G1/4, paint sieve (2x).

The company reserves the right to make technical modifications.

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