

FOR OPTIMAL PERFORMANCE AND LONG SERVICE LIFE

Nozzle installation instructions

Special applications

English version · October 2026

Families included

- Wipe-Catchers: rotatory 1/2", basic 1/2" and rotatory 1/4".
- Camera: 1/2" and 1/4".
- Tank Cleaners: 1", 3/4" and 1/2".



WIPE-CATCHER



CAMERA



TANK CLEANER

IMPORTANT These nozzles must only be used as part of a suitable high-pressure water cleaning system. Pressure, flow, hose and connection components must be compatible with the calibration and model used.

BRUNA · Roberto Bruña, S.L.

Models included / scope

These instructions describe the installation, use, maintenance and storage of BRUNA special-application nozzles: Wipe-Catchers, Camera and Tank Cleaners. They must be kept with the equipment and be available to personnel performing pipe-cleaning work.

Models included

- Wipe-Catchers: rotatory 1/2", basic 1/2" and rotatory 1/4".
- Camera: 1/2" and 1/4".
- Tank Cleaners: 1", 3/4" and 1/2".

Manufacture, sales and service

BRUNA

Roberto Bruña, S.L.

C/ Recta de Heras, 7

39619 San Salvador · Cantabria · España

www.robertobruna.com

IMPORTANT Exact technical characteristics depend on each unit calibration. Do not replace inserts, jets or internal components with parts not approved for the model.

Contents

1. Introduction
2. General description
3. Safety
4. Functional description
5. Transport, cleaning and storage
6. Assembly, installation and first use
7. Operation
8. Maintenance
9. Troubleshooting
10. Disassembly and disposal
11. Technical data

1

Introduction

BRUNA designs and manufactures high-performance nozzles for pipe and sewer cleaning. This manual focuses on three special-application families: Wipe-Catchers for removing textile debris, Camera nozzles for assisting inspection-head movement, and Tank Cleaners for specific well or vertical cleaning work.

IMPORTANT Read and understand these instructions before connecting the nozzle to a high-pressure hose. Instructions for the pressure-water unit, reel and hose also remain applicable.

2. General description

The nozzles described connect to a high-pressure hose and use water energy for specific tasks. Performance depends on jet configuration, body design and, for rotatory Wipe-Catchers, the rotating turbine.

Safety

DANGER High-pressure water can cause severe or fatal injuries. Never test a nozzle at high pressure outside a pipe or a controlled test area.

3.1 Warnings and main risks

- Completely depressurize the system before installing, removing, cleaning or inspecting the nozzle.
- Never direct high-pressure jets toward people, animals, electrical equipment or unsuitable objects.
- Check that all water outlets are clear before use.
- Do not twist the hose during installation.
- Place the nozzle in the pipe or working position before applying pressure.
- Do not use a nozzle with damaged threads, body, inserts or moving parts.

3.2 Operator responsibility

The operator must assess site-specific risks, establish a safe working area, control access and ensure that personnel are trained in the use of high-pressure water cleaning equipment.

3.3 Personnel and personal protective equipment

- Suitable close-fitting work clothing.
- Eye and face protection against splash and particles.
- Protective gloves suitable for the task.
- Slip-resistant safety footwear.
- Respiratory protection and other PPE when required by the environment.

Functional description

Wipe-Catchers

Rotatory models use a rotating turbine to hook textile debris when pulling back. The basic model uses rear jets and an optional front jet to assist manoeuvring.

Camera

These nozzles are designed to assist pushing and handling of the camera head during manual pipe inspection.

Tank Cleaners

Tank Cleaner assemblies combine a body, extension bars and a dedicated head. The catalogue states that the head can also be operated manually on its own.

IMPORTANT Jet configuration, thread, minimum flow and working diameter vary by model. Always consult the technical tables.

Transport, cleaning and storage

- Transport nozzles so that they cannot move, strike other objects or fall.
- After use, carefully remove attached dirt and contamination.
- Dry all components before storage.
- Store bodies, heads and extension bars in suitable holders, trays or cases.

Assembly, installation and first use

6.1 Checks before installation

- Verify that the model is suitable for the application, pipe diameter and available flow.
- Check thread compatibility between nozzle, adapter and hose.
- Visually inspect the thread, body, jets and moving parts.
- Make sure all jets are clear and unobstructed.
- Confirm that the system is depressurized before handling the connection.

6.2 Connection to the hose

1. Place the nozzle and hose on a stable surface.
2. Screw on the nozzle or corresponding adapter without forcing the thread.
3. Avoid twisting the hose to tighten the connection.
4. Secure the connection with the appropriate tool.
5. For Tank Cleaner assemblies, verify head and extension-bar assembly before use.
6. Put the nozzle into position in a controlled manner before pressurizing.

6.3 First use

No specific running-in period is required. A new nozzle may be used after checking the installation, system compatibility and calibration. Start progressively and observe performance from a safe position.

Operation

- Keep unauthorized persons outside the working area.
- Apply pressure only when the nozzle is in a safe working position.
- Increase pressure in a controlled manner to the working value established for the calibration.
- Control forward and backward movement to avoid impacts or blockages.
- Do not try to free a stuck nozzle by sudden pressure increases.
- Before fully removing the nozzle, stop the water and release residual pressure.

Guidance by family

Model / group	Main use	Control during operation
Wipe-Catchers	Removal of rags and textile debris.	Pull back in a controlled manner and make sure the turbine or catching elements rotate freely.
Camera	Pushing and handling inspection heads.	Maintain smooth travel to avoid damaging the cable or camera head.
Tank Cleaners	Specific cleaning in wells, tanks or vertical areas.	Check head and extension-bar assembly and control the operation from a safe position.

Maintenance

IMPORTANT Carry out maintenance only with the system fully stopped, isolated and depressurized.

- Inspect the nozzle after every use.
- Replace damaged or blocked inserts or jets that cannot be cleaned correctly.
- Check the overall condition of the body, threads, turbine, heads and bars.
- Use only BRUNA spare parts or parts expressly approved for the model.

After maintenance

- Verify that all dismantled parts have been correctly reassembled.
- Check the tightness of threaded parts.
- Remove tools and materials from the working area.
- Restart the system in a controlled manner.

Troubleshooting

Symptom	Possible cause	Action
Irregular thrust or unstable path	One or more jets partially blocked.	Depressurize, dismantle and clean the jets; inspect for damage.
Loss of performance	Insufficient flow or incorrect setup.	Check flow, calibration and insert condition.
Wipe-Catcher does not hook correctly	Turbine or catching elements blocked or worn.	Depressurize, clean and inspect the mechanism.
Leak at the connection	Incorrect or damaged thread, seal or adapter.	Depressurize and replace the defective component.

IMPORTANT Never carry out functional tests with a high-pressure line connected and the nozzle outside a pipe or a test installation designed for that purpose.

Disassembly and disposal

- Depressurize and disconnect the nozzle completely before disassembly.
- Handle metal parts, heads and wear components with care.
- Separate components by material at the end of their service life.
- Dispose of oils, greases and other maintenance products in accordance with local regulations.

Metal parts may be recycled where their condition and local regulations permit. Contaminated components must be handled according to applicable requirements.

Technical data

Data taken from the BRUNA 2026 catalogue. Flow values are shown as the published minimum reference for each model. Final calibration must be adapted to the customer equipment.

Model	Thread	Pipe	Jets	Flow	Dimensions	Weight	Notes
Rotatory Wipe-Catcher 1/2"	1/2" o 3/8"	75-200 mm	T 6 x M4 / D 3 x M4	desde 41 l/min	35 x 64 mm	0.3 kg	Rotating turbine
Basic Wipe-Catcher 1/2"	1/2" o 3/8"	75-200 mm	T 6 x M4 / D 1 x M4	desde 41 l/min	30 x 50 mm	0.1 kg	Optional front jet
Rotatory Wipe-Catcher 1/4"	1/4" o 1/8"	50-160 mm	T 6 x M4 / D 3 x M4	desde 41 l/min	28 x 56 mm	0.155 kg	Rotating turbine
Camera 1/2"	1/2" o 3/8"	110-250 mm	T 3 x M4 (15°)	desde 41 l/min	35 x 60 mm	0.245 kg	Camera head pushing
Camera 1/4"	1/4" o 1/8"	75-200 mm	T 3 x M6	desde 41 l/min	32 x 39 mm	0.135 kg	Camera head pushing

R = rear jets · F = front jet(s).

Technical data · continued

Model	Thread	Pipe	Jets	Flow	Dimensions	Weight	Notes
Tank Cleaner 1"	1"	Not stated	Not stated	Not stated	27 x 25 mm (cuerpo)	4.7 kg	Separate head
Tank Cleaner 3/4"	3/4"	Not stated	Not stated	Not stated	27 x 25 mm (cuerpo)	2.4 kg	Separate head
Tank Cleaner 1/2"	1/2"	Not stated	Not stated	Not stated	27 x 15 mm (cuerpo)	1.7 kg	Separate head
Head 1 1/3/4"	-	-	-	-	170 x 50 mm	0.94 kg	Manual operation possible
Head 1/2"	-	-	-	-	246 x 50 mm	0.939 kg	Manual operation possible

IMPORTANT If your equipment flow or pressure does not match the nozzle calibration, contact BRUNA before use. An unsuitable setup may reduce performance and increase the risk of damage.

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