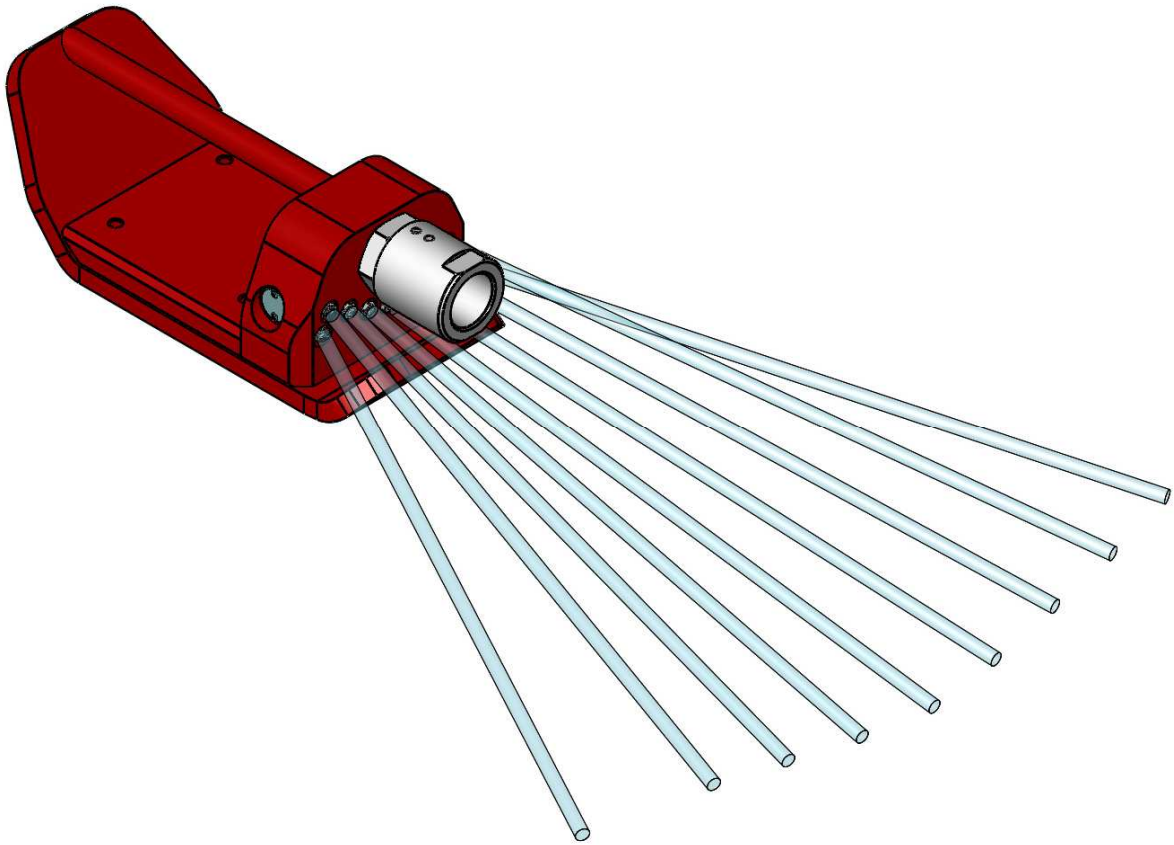

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Introduction

These instructions were prepared to provide the operator with the basic information needed to operate correctly Nuova Contec (NCT) nozzles.
The advice contained in this manual will assure that you receive the best performance from the nozzle.
All operating personnel responsible for the care of the equipment must read and understand the following instructions.
For further information, or for any problem incurred while operating this equipment, please contact NCT or an authorized dealer.

Safety

The use of rotating and standard nozzles may be dangerous if the following rules are not seriously taken into account:

- The nozzle and its jets must never be directed towards electrical parts or power supply lines. Please consider that the nozzle can spray water from the front, from behind and laterally. The nozzle and its jets must never be directed towards people and/or animals.
- NEVER use the nozzles at a pressure higher than the one specified by the producer. A greater pressure may cause problems to the equipment and serious damage to people and/or things.
- NEVER put your hands or other parts of the body directly in contact with the water jets, for any reason, not even at the lowest pressure values.
- The nozzles can be ONLY operated after having being properly placed inside the sewer pipeline. Operators must choose the type of nozzle according to the type of pipeline to be cleaned. Certain nozzles can break the pipeline and be dangerous for the operators and the people at the working place.
- NEVER lean on a manhole when the nozzle is in action. Because of the high pressure jets, some pieces of debris or the pipeline material could suddenly be detached and hit the incautious spectators.
- Any inspection, monitoring, maintenance or repair operation MUST be performed with the nozzle at rest and in any case not before having COMPLETELY removed the pressure from the supply hose.

Technical Data

Description :	Heavy duty sledge nozzle “Magredi”
Rear jets:	9 @ with TE M10x1 ceramic inserts
Frontal jet:	Not available
Inlet:	1”F – 1 ¼”F
Weight:	16,8 Kg
Dimensions øxL:	355x160x120 mm
Flow range:	150-400 lt/min
Maximum pressure:	250 bar
Working DN:	400-2000 mm

Usage

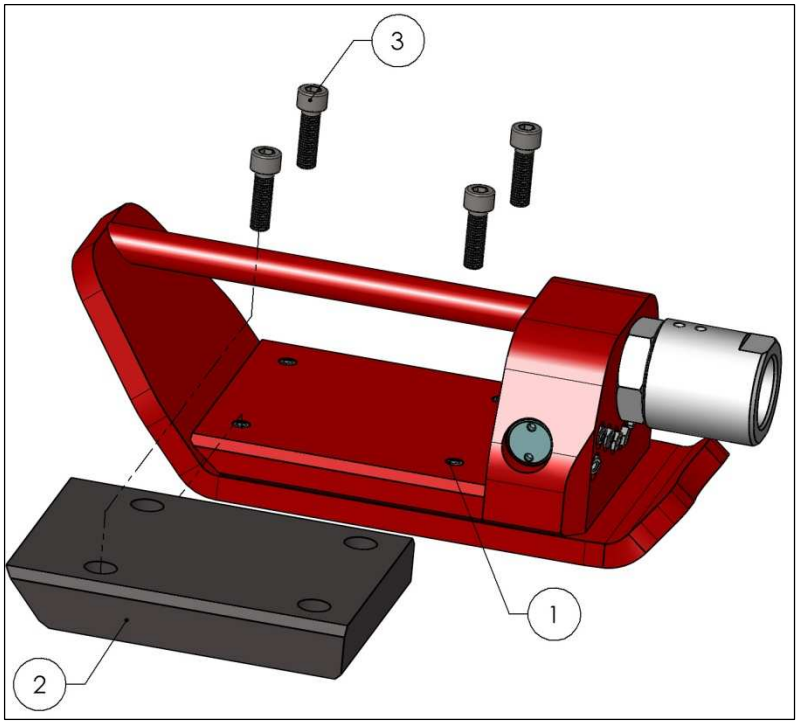
NCT nozzles can be used only **TO WASH UNDERGROUND PIPES, ABLE TO RESIST TO HIGH PRESSURE WATER JETTING AND/OR MECHANIC ACTION OF ITS MOVING PARTS.**
MAXIMUM WORKING PRESSURE: 250 Bar
Unless there is a specific certification, NCT **nozzles MUST NOT BE USED IN AN EXPLOSIVE ENVIRONMENT.**

Disclaimer

THE MANUFACTURER DISCLAIMS ANY LIABILITY IF THE CLIENT:

- does not completely read the following instructions PRIOR to in any way start using the equipment.
- uses the equipment outside the recommended usages and performances for which it was designed and built.
- does not regularly perform all maintenance operations.
- tampers with or willfully or negligently let somebody tamper with the equipment, or rely on inexperienced or unqualified operators.
- does not adequately instruct the operators;
- omits to define in clear and unequivocal terms the working area in order to prevent outsiders from accessing it.
- uses non-original spare parts, accessories, tools, or any device that does not guarantee the widest margin of safety, taking into account the maximum pressure reachable by the nozzle in the most demanding working conditions.

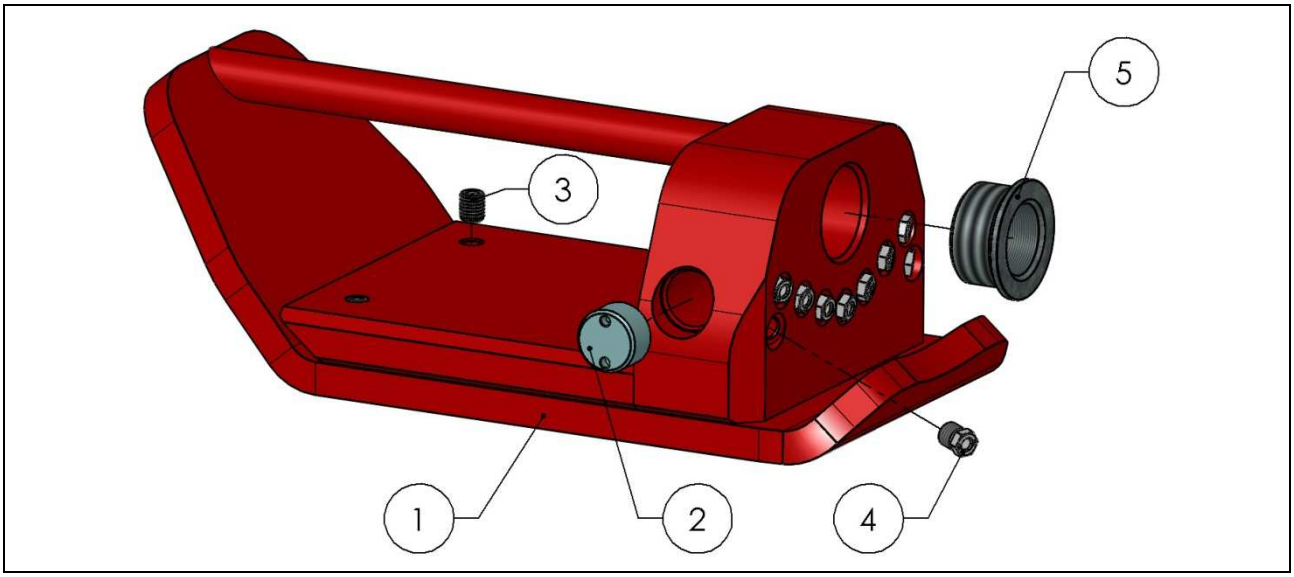
Additional weight installation



Part number: 65500.87-06

1. Remove the 4 inserts (1) with a hexagonal male key “L” 6mm
2. Place the additional weight (2) above the Magredi nozzle as shown in the picture
3. Insert the 4 screws TCEI M10 (3) and screw them with a tubular double hex wrench 10 mm using Loctite 243 or an equivalent product.

Exploded view



Pos.	Part no.	Description	Q.ty
1	65500.871.SI	Magredi 1 ¼”F without inserts	1
2	65500.87-05	Plug ¾”M for Magredi	2
3	8.11A2M10X012	Insert M10X12 SS	4
4	85510.xx	Ceramic insert TE M10x1 DN xx	9
5	5940.07B	Reduction 1 ¼"M-1"F	1

Rear jets

Part no.	Description	Image
85510.10	Ceramic insert TE M10x1 DN 1,0	Key 10 mm
85510.12	Ceramic insert TE M10x1 DN 1,2	
85510.14	Ceramic insert TE M10x1 DN 1,4	
85510.16	Ceramic insert TE M10x1 DN 1,6	
85510.18	Ceramic insert TE M10x1 DN 1,8	
85510.20	Ceramic insert TE M10x1 DN 2,0	
85510.22	Ceramic insert TE M10x1 DN 2,2	
85510.24	Ceramic insert TE M10x1 DN 2,4	
85510.26	Ceramic insert TE M10x1 DN 2,6	
85510.28	Ceramic insert TE M10x1 DN 2,8	
85510.31	Ceramic insert TE M10x1 DN 3,1	
85510.34	Ceramic insert TE M10x1 DN 3,4	
85510.40	Ceramic insert TE M10x1 DN 4,0	

Accessories

Part number	Description	Picture
5030.25A	Rotating swivel 1"F	
5030.32A	Rotating swivel 1 ¼"F	
65500.87-06	Additional weight for Magredi 6 Kg	
85500.506-01	Tubolar double hex wrench 10 mm	
85500.517L	Hexagonal male key "L" 6 mm	
85500.525L	Hexagonal male key "L" 8 mm	
WD.40	Lubricating Spray WD40 200 ml	
LOC.243	Loctite 243 50 cc	

Maintenance after working operation

After the operation, you have to visually check the whole nozzle in order to be sure that there are no anomalies. Check the tightness of all the screws and, if necessary, screw them again using a thread locker such as “Loctite 243” or an equivalent product.

Make sure that the jets are clean and there are no leakages between the nozzle and the inserts; eventually remove them and place them again using “Loctite 243” or an equivalent product. This operation is important and if not performed properly can lead to irreversible damage of the nozzle.

Lubricate all the accessible parts with an anti-corrosion water-repellent spray, or equivalent.

Trouble shooting

Problem	Cause	Solution
The nozzle doesn’t have enough thrust.	• Wrong calibration • The pump is not working properly • Wrong supply hose	• Inserts replacement • Check the performance of the pump • Verify the diameter and the hose length
The system doesn’t reach the specified pressure.	• Wrong calibration • The pump is not working properly • Wrong supply hose	• Inserts replacement • Check the performance of the pump • Verify the diameter and the hose length
Water flows between the nozzle and the rear jets inserts	• Screw locking is missing	• Remove the jet insert, clean the thread and re-install with Loctite 243
The nozzle tends to rise	• The pump power is too high	• Increase the weight of the nozzle using the additional weight.
The nozzle tends to rollover	• Faulty or missing rotating swivel	• Replace or mount a new rotating swivel. See generic spare parts list

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