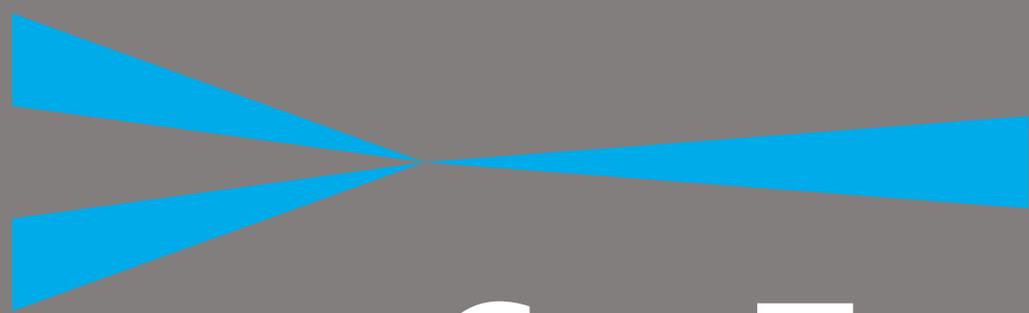




Nozzlefirst



nuova**ConTec**



TPN

THE PROVING NOZZLE

Much more than a nozzle, much more than a CCTV: with one more (special) nozzle on the truck, now you can really optimize your time and resources for a zero miles inspection, having the possibility to save one inspection crew and vehicle, to be engaged in other job sites.

It is the optimal solution to combine sewer cleaning activity with data collection and processing, also exploiting the possibilities that AI offers.

Once the pipe is cleaned, the video is downloaded with a single touch of a button and automatically uploaded to the **Sewer Analytics web cloud** (when connected to internet), together with the date, time and GPS location of the cleanings.

AI Software

Reliable artificial intelligence software that automatically analyses videos, defect coding, classification and prioritizing.

Automatic Recording

A pressure switch lights up the Super bright LED's and automatically starts the recording.

Stand-alone

The stand-alone video nozzle kit easily threads onto the jetting hose and is compatible with any jetting truck.

10 Hours Runtime

The Lithium-Ion battery pack is charged in 3 hours and lasts as long as a good 10-hour working day.

Durable

The pressurized, stainless-steel, housing has no external buttons and is made to withstand a serious beating.

Superior Video

The auto-upright, High-Definition camera is protected by stacked Sapphire lenses and records always from a perfect horizontal position.



SHOW



IN ACTION



COMPONENTS AND TECHNICAL SPECIFICATIONS

Nozzle

- **Size (ØxL):** 90x295mm (without centralizer)
- **Weight:** 6,2 kg
- Shaft in Stainless Steel
- 8 jets with 20° inclination, interchangeable ceramic inserts
- **Working DN** >150 mm with the proper centralizer
- **Connection:** 1 1/4" (1" - 3/4" with adapter)
- **Flow range:** 150-650 lt/min
- **Working Pressure:** 125-175 bar

Camera

- Self-leveling HD camera
- Internal memory (32Gb) for video recording format *.AVI 720i 1280x720
- Integrated Wi-Fi Router for wireless communication
- 7 LEDs ultra-bright lightning
- Li-ion Batteries (10 hours runtime)

Tablet

- Rugged tablet Windows 10 Home Edition, IP68
- Display touch screen, 8"
- Micro USB and SD-card slot
- Integrated GPS receiver
- Front and Rear Camera
- HDD 28 GB

Operating Software V2022

- Touch screen Functional keys
- Download video wireless
- Language: English
- Compatible with Sewer Analytics

Centralizers

- **6.X80-100** **TPN120** for pipes from Ø150mm
- **6.X80-105** **TPN160** for pipes from Ø200mm
- **6.X80-110** **TPN240** for pipes from Ø300mm

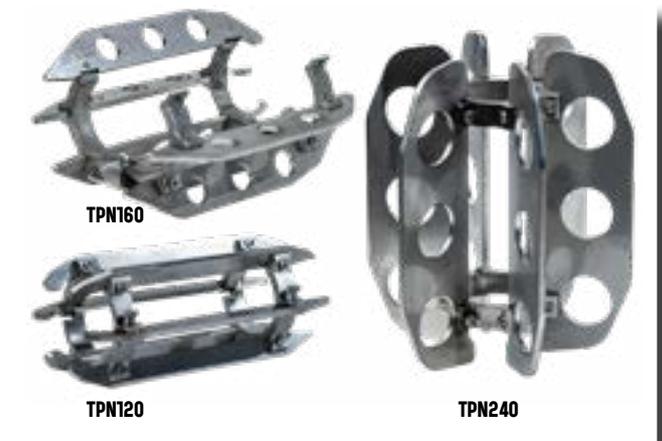
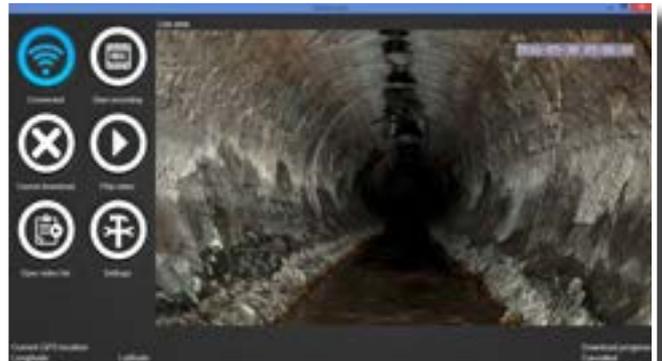
ORDER INFORMATION

#**6.X80P-00** TPN nozzle system includes:

- Camera nozzle with 240V charger, hand pump, plastic case;
- Windows rugged tablet with preinstalled software;
- Log-in protected access on Sewer Analytics web cloud from any device with 0,5 Tb storage capacity.

When placing an order please indicate:

- Flow and pressure of the pump
- Size of the hose (¾", 1" or 1" ¼)
- Chosen centralizer



MAKE YOUR CHOICE

PAG. 2

TPN - THE PROVING NOZZLE

PAG. 5

SEWER CLEANING NOZZLES

FARA AND DURANNO | CANIN | ITALO | ISONZO | RAUT | ARZINO | FANNA | LIVENZA

PAG. 10

ROTATING AND VIBRATING NOZZLES

AVIAN TURBINE | TREMOL | RAVEDIS | GRIS | MALNIS

PAG. 13

SAND REMOVAL NOZZLES

NATISONE | PIAVE | MAGREDI | MAGREDI PLUS

PAG. 16

ROOT CUTTERS

AVIAN | SOLO | CARNIA AND FRIULI | MANIAGO | BORA

PAG. 21

GREAT NOZZLES FOR SMALL PIPES

SILE | PICIUL | MEDUNA | RAUT | CELLINA | PIAVE | ARZINO | TREMOL | GRIS | BORA | CANIN | ISONZO

PAG. 24

SUCTION NOZZLES

VENTURI | MEDUSA

PAG. 25

NOZZLES FOR LANCES

ROTOJET | FLUSHING NOZZLES | FAN JET INSERTS

PAG. 26

MINI-JET KIT HOSES

REMOTE MINI REEL | FOOT OPERATED GUN | HOSE FITTINGS AND ACCESSORIES

PAG. 28

HIGH PRESSURE GUNS AND LANCES

PAG. 29

SAVE HOSE DEVICES

LOWER GUIDE | TIGER TAIL | MANHOLE UPPER GUIDE

PAG. 30

INSERTS

WITH HEXAGONAL INTERNAL HEAD | WITH HEXAGONAL EXTERNAL HEAD | ACCESSORIES FOR INSERTS

PAG. 31

MANHOLE COVER LIFTERS

MAGNETIC HOIST MR. OLIMPIA | MAGNETIC HOIST SUPER STRONG | ADAPTER FOR MR. OLIMPIA

LEGEND

These symbols are used in the catalogue to represent the following entities:



Weight



Lower jets



Inserts



Nozzle compatible with water recycling systems



Front jets



Upper jets



Working DN



Rear jets



Jets of rotation/side

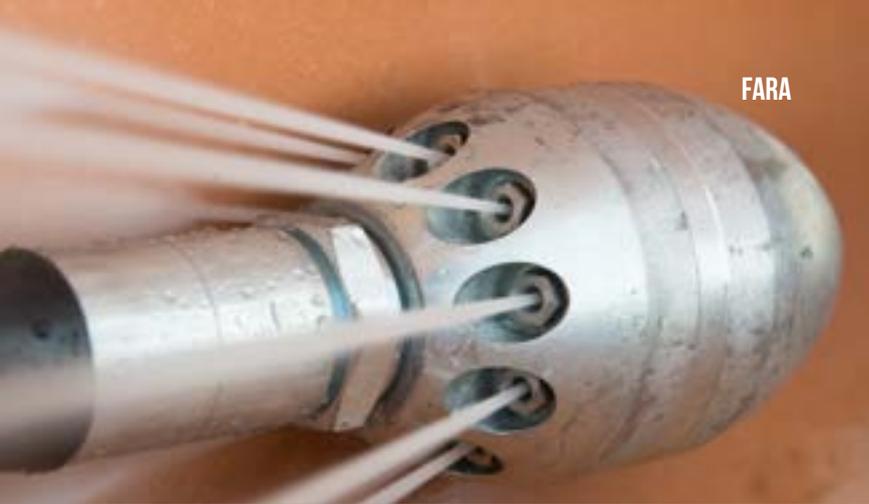


Thread

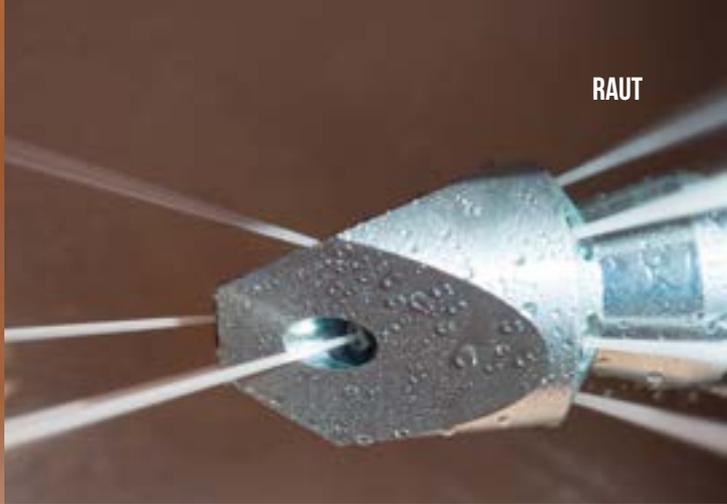
Part number (bold) refers to the nozzles in standard version (normally with ceramic inserts).

Same number + **W** refers to **carbide** inserts version.

Example: **65540.600** Fara 1" nozzle w/ceramic inserts - **65540.600W** Fara 1" nozzle w/**carbide** inserts



FARA



RAUT

SEWER CLEANING NOZZLES

Heavy duty nozzles, made by hardened steel with interchangeable inserts.

Select your nozzles according to pipe size and length, jet angle, pump parameters.

Advantages:

- Higher efficiency due to internal design, ceramic or carbide inserts;
- Less water and fuel consumption;
- Longer nozzle life and less maintenance cost;
- Carbide inserts increase nozzle compatibility with water recycling systems.

FARA AND DURANNO

Heavy grenade nozzles with medium jet inclination

CANIN

Torpedo nozzles with low jet inclination for high traction and long runs

ITALO

Stainless steel egg shape nozzles with carbide inserts

ISONZO

Stainless steel grenade nozzles, with high jet inclination

RAUT

Triangle shaped nozzles with multiple front jets for unblocking application or upstream cleaning

ARZINO

Egg shape nozzle with low inclination jets

FANNA

Round head light nozzles

LIVENZA

Conical head light nozzles

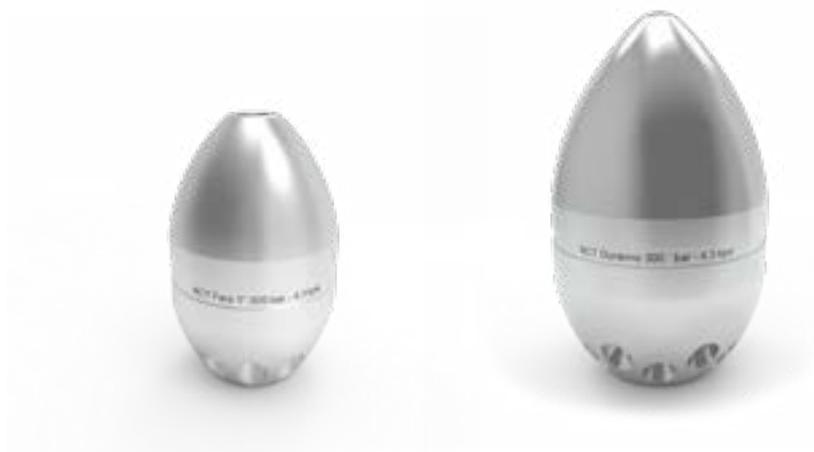
Part number (bold) refers to the nozzles in standard version (normally with ceramic inserts). Same number + **W** refers to **carbide** inserts version.

Example:

65540.600 Fara 1" nozzle w/ceramic inserts

65540.600W Fara 1" nozzle w/**carbide** inserts

FARA AND DURANNO



	Fara 1" F	Duranno 1" F 1" 1/4 F
DxL	87 x 140 mm	107 x 180 mm
KG	3,6 kg	7,7 kg
Beam	10 x 15°	7 x 20° + 7 x 30°
Model	85510.Wxx	85510.Wxx
Range	150-400 mm	300-1000 mm
#	65540.600W	65540.811W 65540.801W

CANIN



	1/2" F	3/4" F	1" F	1" 1/4 F
DxL	49 x 75 mm	68 x 125 mm	98 x 98 x 202 mm	
KG	0,8 kg	2,5 kg	5,6 kg	
Beam	6 x 10°	3 x 6° + 3 x 12°	5 x 5° + 5 x 10°	
Model	85511.Wxx	85510.Wxx	85510.Wxx	
Range	80-200 mm	100-250 mm	150-400 mm	
#	65540.765W	65540.760W	65540.710W 65540.750W	

ITALO



	1/2" F	3/4" F	1" F
DxL	44 x 58	69 x 95 mm	69 x 95 mm
KG	0,4 kg	1,6 kg	1,6 kg
V	8 x 20°	8 x 20°	8 x 20°
Wxx	85511.Wxx	85510.Wxx	85510.Wxx
Ø	80-200 mm	100-400 mm	100-400 mm
#	65540.290	65540.295	65540.300

ISONZO



	1/2" F	3/4" F	1" F	1" 1/4 F
DxL	49 x 80 mm	69 x 111 mm	87 x 139 mm	
KG	0,8 kg	2,2 kg	4,0 kg	
V	6 x 30°	8 x 30°	12 x 30°	
Wxx	85511.Wxx	85510.Wxx	85510.Wxx	
Ø	70-200 mm	80-300 mm	200-700 mm	
#	65540.100W	65540.200W	65540.420W	65540.421W

RAUT



	1/2" F	3/4" F	1" F	1" 1/4 F
DxL	34,5 x 55 mm	50 x 92 mm	59 x 105 mm	78 x 142 mm
KG	0,20 kg	0,59 kg	0,94 kg	2,6 kg
∠	3 x 20°	6 x 20°	6 x 20°	6 x 20°
∠	3 + 1 x 20°/0°	3 + 1 x 20°/0°	3 + 1 x 20°/0°	3 + 1 x 20°/0°
☰	85993.xx	85511.Wxx	85511.Wxx	85510.Wxx 85511.Wxx
⊘	50-250 mm	80-300 mm	100-400 mm	150-500 mm
#	5560.11	5550.20C	5550.30C	5550.40
#		5550.20W	5550.30W	5550.40W

ARZINO



	1/2" F	3/4" F	1" F	1" 1/4 F
DxL	42 x 55 mm	58 x 72 mm	69 x 85 mm	88 x 120 mm
KG	0,28 kg	0,78 kg	1,30 kg	3,25 kg
∠	6 x 15°	8 x 15°	8 x 15°	8 x 20°
☰	85993.xx	85511.xx	85511.xx	85510.xx
⊘	80-150 mm	100-250 mm	120-350 mm	200-500 mm
#	5528.06C	5532.08C	5533.08C	5534.08
Thrust#		5532.08-01	5533.08-02	5534.08-01



Thrust nozzle
(inserts to be ordered separately according nozzle configuration)

FANNA



	3/4" F	1" F
DxL	49 x 50 mm	58 x 60 mm
 KG	0,5 kg	0,73 kg
	6 x 30°	6 x 25°
	1 x 0°	1 x 0°
	85993.xx	85993.xx
	85-250 mm	100-300 mm
#	5516.20C	5516.30C

LIVENZA



	3/4" F	1" F
DxL	49 x 58 mm	58 x 69 mm
 KG	0,4 kg	0,5 kg
	6 x 20°	6 x 20°
	1 x 0°	1 x 0°
	85993.xx	85993.xx
	85-250 mm	100-300 mm
#	5515.600C	5515.700C

ROTATING AND VIBRATING ACTION

These nozzles increase the cleaning efficiency of the static rear jets with additional functionality of the rotating jets. Made by hardened stainless steel with interchangeable inserts. To be used for descaling and removal of soft and hard deposit (limestone, calcifications, ...)

AVIAN TURBINE

Turbine driven milling nozzles set with cutting head with carbide tips, suitable for front impact removal of limestone and hard obstructions. Combo kit is available with chain supporting head and centralizer for root cutting application.

TREMOL

Rotating nozzles with 90° radial jets. Centering rings or devices can be used to increase cleaning efficiency. From 1/2" up.

RAVEDIS

Vibrating nozzles for descaling and limestone removal.

GRIS

Rotating nozzles with carbide tip on the side for scraping limestone from the edge of the pipe.

MALNIS

Light vibrating nozzles for descaling PVC pipes.

AVIAN TURBINE



	3/8" F	1/2" F	3/4" F	1" F
DxL	36 x 83 mm		55 x 106 mm	74 x 140 mm
KG	0,37 kg		1 kg	2,3 kg
°	3 x 90°		3 x 90°	3 x 90°
°	6 x 25°		4 x 20°	6 x 20°
Model	85990.xx		85993.xx (rotation) 85511.xx (thrust)	85993.xx (rotation) 85511.xx (thrust)
Range	45-150 mm		70-250 mm	100-350 mm
#	75510.11TTW	75510.17TTW	75510.360TTW	75510.260TTW
Code		VALK1T.01	VALK3T.01	VALK6T.01

TREMOL



	1/8" F	1/4" F	3/8" F
DxL	19 x 28 mm	20 x 35 mm	28 x 50 mm
KG	0,03 kg	0,06 kg	0,3 kg
°	3 x 25°	3 x 25°	3 x 25°
°	2 x 90° + 2 x 45°	2 x 90° + 2 x 35°	2 x 90° + 2 x 85°
Model	-	-	85990.xx
Range	30-60 mm	30-100 mm	50-150 mm
#	75510.190R	75510.230R	75510.120R



	1/2" F	3/4" F	1" F	1" 1/4 F
DxL	34 x 62	50 x 99 mm	70 x 125 mm	70 x 125 mm
KG	0,33 kg	0,84 kg	2,3 kg	2,3 kg
°	6 x 25°	6 x 20°	6 x 20°	6 x 20°
°	2 x 90° + 2 x 85°			
Model	85990.xx	85511.xx	85511.xx	85511.xx
Range	50 - 150 mm	100-200 mm	100-300 mm	100-300 mm
#	75510.14R	75510.350R	75510.250R	75510.270R

MALNIS



	3/8" F	1/2" F
DxL	30 x 56 mm	35 x 63 mm
KG	0,2 kg	0,4 kg
°	3 x 20°	3 x 25°
°	1 x 90°	1 x 90°
xx	85990.xx	85990.xx
mm	80-175 mm	80-175 mm
#	77399.099	77399.250

GRIS



	1/8" F	1/4" F	3/8" F	1/2" F
DxL	18 x 28 mm	23 x 35 mm	32 x 50 mm	38 x 63 mm
KG	0,03 kg	0,06 kg	0,2 kg	0,4 kg
°	3 x 25°	3 x 25°	3 x 25°	6 x 25°
°	2 x 90° + 2 x 45°	2 x 90° + 2 x 35°	2 x 90° + 2 x 45°	2 x 90° + 2 x 45°
mm	40 - 90 mm	40 - 100 mm	125 - 300 mm	125 - 300 mm
#	75510.190D	75510.230D	75510.121D	75510.140D

RAVEDIS



	1/4" F	1/2" F	3/4" F	1" F
DxL	30 x 60 mm	48 x 95 mm	78 x 126 mm	78 x 126 mm
KG	0,24 kg	0,81 kg	3 kg	3 kg
°	3 x 25°	6 x 10°	5 x 25°	5 x 25°
°	1 x 90°	1 x 90°	1 x 70° + 1 x 90°	1 x 70° + 1 x 90°
xx	85990.xx	85993.xx	85511.xx	85511.xx
mm	50-125 mm	100-225 mm	125-300 mm	125-300 mm
#	77400.050	77400.250	77400.651	77400.750

NATISONE

MAGREDI PLUS

SAND REMOVAL NOZZLES

Special shape heavy duty nozzles specifically designed in order to remove sand and sedimentation from the bottom of the pipe, where all the water is oriented.

Advantages:

- less water consumption;
- interchangeable ceramic or carbide inserts;
- heavy nozzles in order to keep stable position during cleaning operation;
- designed for round, egg or flat profile pipes;
- to be used in large sewer and storm water pipes.

Always use with rotary swivel for more stability and easier handling when connecting to the HP hose.

NATISONE

Self-balancing torpedo nozzles for round and egg profile pipes. The water is always directed towards the bottom of the pipeline. The higher inclination of the side jets optimises cleaning of the pipe sides.

PIAVE

Flat nozzles for squared pipes.

MAGREDI

Sledge nozzle for flat pipes. With special device it is possible to use 2 nozzles at the same time in order to increase cleaning efficiency in larger pipes.

MAGREDI PLUS

Same specification as Magredi nozzles. 7 more jets with higher inclination on the top and on the sides of the nozzle to increase cleaning efficiency all around the pipe, reducing distance between the nozzle and the pipe wall.

STRAIGHT ROTATING SWIVELS



5030.20A
3/4"



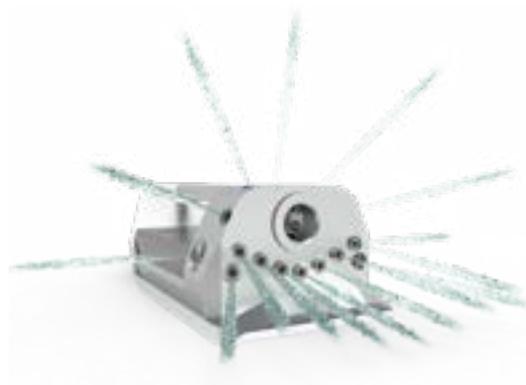
5030.25A
1"



5030.32A
1" 1/4



Basic

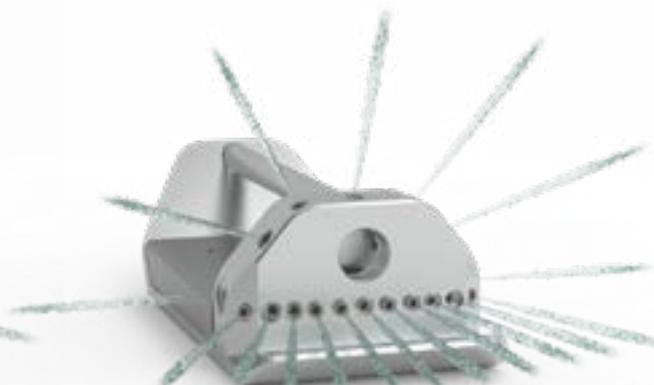


Plus

	3/4"	1"	1"	1" 1/4
LxWxH	355 x 160 x 120 mm			
	17 kg	17 kg	22 kg	22 kg
	9 x 0° / 5° / 10° / 15° / 25°			
	2 x 90° + 5 x 75° (PLUS)			
	85510.Wxx			
	400-1500 mm			
#Basic	65500.872W	65500.87W	65500.870W	65500.871W
#Plus	65500.872RW	65500.87RW	65500.870RW	65500.871RW



Big - Basic



Big - Plus

	1" 1/4	
LxWxH	460 x 210 x 133 mm	
	36 kg	
	13 x 0° / 5° / 10° / 18° / 25° / 35° / 90°	
	- 1 x 0° + 2 x 50° + 2 x 65°	
	85510.Wxx	
	500-1500 mm	
#	65500.873W	65500.873RW

NATISONE



	3/4" F	1" F	1" F	1" 1/4 F
DxL	100 x 260 mm	140 x 400 mm	160 x 520 mm	
KG	10 kg	18 kg	32 kg	
>	5 x 15°	7 x 15° / 25°	9 x 10° / 15° / 20° / 25° / 30°	
☰	85510.Wxx	85510.Wxx	85510.Wxx	
⊘	150-600 mm	250-1200 mm	250-1500 mm	
#	65500.800W	65500.810W	65500.820W	65500.840W

PIAVE



	1/2" F	1" F
LxWxH	165 x 94 x 38 mm	320 x 160 x 59 mm
KG	3,4 kg	18 kg
>	4 x 0°	8 x 0° / 7,5° / 15°
☰	85997.xx	85510.xx
⊘	150-250 mm	250-1200 mm
#	65500.880	65500.85



ROOT-CUTTERS

CARNIA

SOLO

Chain rotating nozzles to be used for roots, rust, limestone and unsuccessful liner removal.

When selecting these nozzles, please consider:

- Diameter of the pipeline
- Type of obstruction to be removed
- Pump parameters and HP hose size.

Always use pipe centralizer together with chain rotating nozzle and set the nozzle with chain length related to pipe diameter.

Root cutter nozzles are provided as kit in "ready for use" transport case containing nozzles, chains, and tools. Depending on size and type of nozzle, pipe centralizer may not be included and has to be selected and ordered separately.

AVIAN

This is a multifunctional nozzle that can be used for several applications. With chain supporting head and pipe centralizer it is a very efficient root cutter nozzle.

SOLO

This configuration of rotating nozzle is set with carbide tipped circular chains for fast and effective removal of roots, limestone along the pipe wall, rust.

CARNIA AND FRIULI

Chain rotating nozzles with interchangeable head. Ring chains are recommended in misaligned pipes.

Always select pipe centralizer according to pipe DN.

MANIAGO

Chain rotating nozzle with motor chain. Nozzle spinning extensions increase efficiency in larger pipes up to 600 mm pipes

BORA

Stainless steel nozzles with high impact front spinning jet

NOZZLE	HOSE FITTINGS	WORKING DN (MM)															
		40	50	70	80	100	125	150	200	225	250	300	350	400	500	600	700
AVIAN	1/2"	[Bar chart showing working range from 40 to 150 mm]															
	3/4"	[Bar chart showing working range from 70 to 275 mm]															
	1"	[Bar chart showing working range from 100 to 350 mm]															
SOLO	1/2"	[Bar chart showing working range from 50 to 125 mm]															
	3/4"	[Bar chart showing working range from 80 to 175 mm]															
	1"	[Bar chart showing working range from 125 to 325 mm]															
BORA	1/4"	[Bar chart showing working range from 70 to 175 mm]															
	1/2"	[Bar chart showing working range from 50 to 175 mm]															
	3/4" - 1"	[Bar chart showing working range from 125 to 375 mm]															
CARNIA	3/4"	[Bar chart showing working range from 125 to 325 mm]															
FRIULI	1"	[Bar chart showing working range from 150 to 550 mm]															
MANIAGO	1"	[Bar chart showing working range from 150 to 700 mm]															

AVIAN



- DxL**
-  **kg**
- 
- 
- 
- 
- #Kit**
- Chain spare set**

	1/2" F	3/4" F	1" F
	35 x 60 mm	50 x 83 mm	70 x 140 mm
	0,3 kg	1 kg	2.6 kg
	3 x 90°	3 x 90°	3 x 90°
	6 x 25°	4 x 20°	6 x 20°
	85990.xx	85993.xx	85511.xx
	70-100 mm	100-150 mm	150-300 mm
	VALK1A1.01	VALK3A1.01	VALK6A1.01
	75001.10A-K1	75001.11-K1	75001.15-K1

SOLO



- DxL**
-  **kg**
- 
- #1**
- #2**

Solo Chains

- 70**
- 100**
- 125**
- 150**
- 200**

	1/2" F	3/4" F	1" F
	35 x 60 mm	50 x 83 mm	70 x 140 mm
	0,3 kg	1,0 kg	2,6 kg
	70-100 mm	100-150 mm	150-300 mm
	VALK1A2.01	VALK3A2.01	VALK6A2.01
	VALK1A2T.01	VALK3A2T.01	VALK6A2T.01
	50.CC070-8		
	50.CC100-8	50.CC100-12	50.CC100-12
		50.CC125-12	50.CC125-12
		50.CC150-12	50.CC150-12
			50.CC200-12

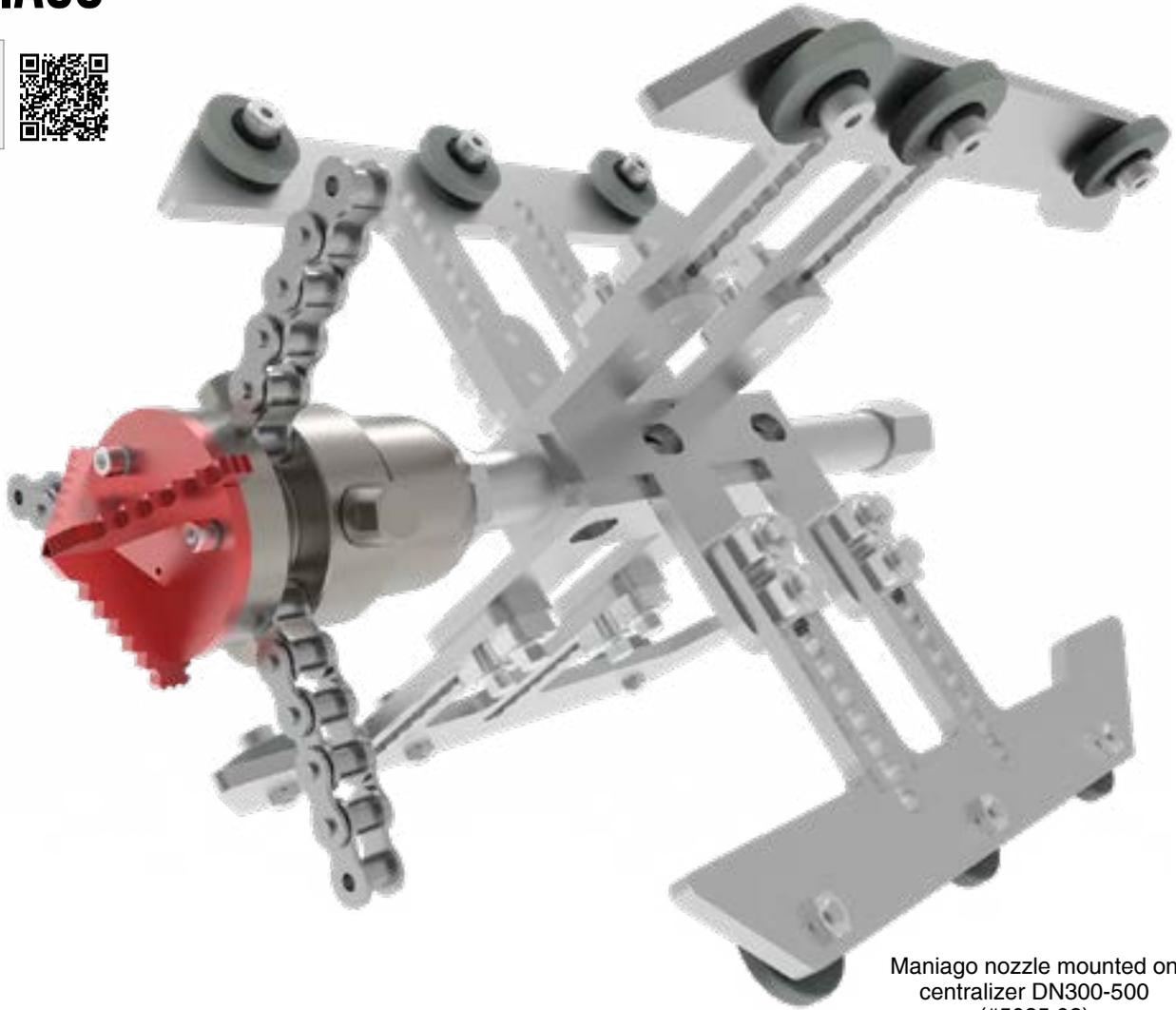
Ring / Centralizer (Avian and Solo)

- DN 70**
- DN 100**
- DN 125**
- DN 150**
- DN 150-200**
- DN 200-300**

	5305.12A (ring)		
	5305.12B (ring)	5305.34B (ring)	
		5305.34A (ring)	
		5305.34C (ring)	
			5305.10 Ring with interchangeable skids
			5023.01-0 Centralizer with extendable skids

#1 = Kit Solo

#2 = Kit Solo Turbine = increased rotational force and water saving



Maniago nozzle mounted on centralizer DN300-500 (#5025.02)



DxL



#Nozzle

#Kit basic

#Kit plus

Chains set

DN 200 chain set

DN 250 chain set

DN 300 chain set

DN 350 chain set

DN 400 chain set

DN 500 chain set

DN 600 chain set

Head

Cutting head w/kinves

Centralizer

DN 300 - 500
(w/extendable skids)

Maniago 1"

120 x 170 mm

3,8 kg

3 x 90°

4 x 20°

85993.xx (rotation)

85510.xx (thrust)

200-600 mm

75000.05

K25.RC3000

K25.RC3050

75000.04-KM200

75000.04-KM250

75000.04-KM300

75000.04-KM350

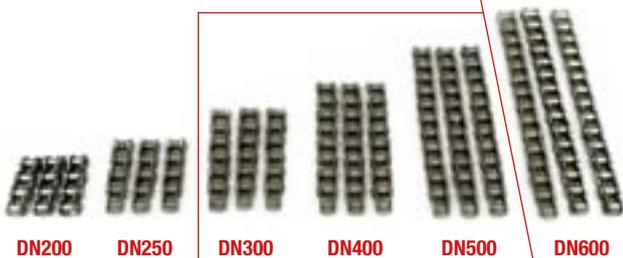
75000.04-KM400

75000.04-KM500

75000.04-KM600

75000.42

5025.02



DN200

DN250

DN300

DN400

DN500

DN600

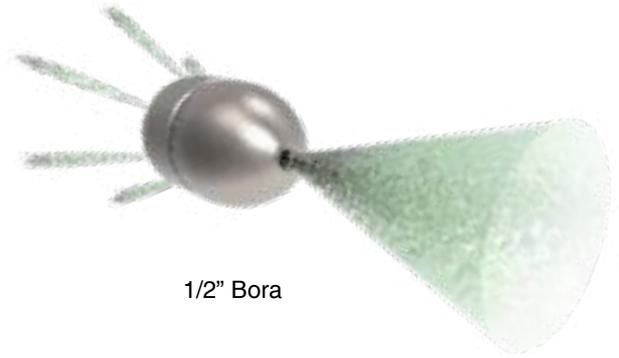
BORA



	1/4" F	1/2" F	3/4" F	1" F
DxL	58 x 62 mm	39 x 61 mm	68 x 107 mm	68 x 107 mm
	0,5 kg	0,4 kg	2,1 kg	2,1 kg
	1 x 18° rotating	6 x 20°	8 x 20°	8 x 20°
	1 x 0°	1 x 18° rotating	1 x 20° rotating	1 x 20° rotating
	85993.xx	85993.xx	85510.xx	85510.xx
	70-150 mm	50-150 mm	150-350 mm	150-350 mm
#	75150.02	75150.01	75210.01	75350.01



1/4" Bora



1/2" Bora

CENTRALIZERS

DN 150-300 centralizer

with a set of adjustable position skids.
Suitable for 3/4" nozzles (Tremol, Avian, Carnia)

	3/4" F/M
DN	150-300 mm
Weight	3,4 kg
Length	250 mm
Max pressure	300 bar
#	5023.02



DN 300-500 centralizer, with 4 adjustable skids and rubber wheels to allow an easy sliding of the guide
Suitable for 1" nozzles (Maniago)

	1" F/M
DN	300-500 mm
Weight	18 kg
Length	450 mm
Max pressure	300 bar
#	5025.02



DN 200-450 centralizer

with 2 sets of adjustable position skids. Steel wheels are set on bigger skids. Suitable for 1" nozzles (Tremol, Maniago)

	1" F/M
DN	200-450 mm
Weight	7,5 kg
Length	325 mm
Max pressure	300 bar
w/wheels #	5023.01-1
#	5023.01-0



5023.01-0

w/wheels
5023.01-1

DN 225-600 centralizer with pantograph opening,

and rubber wheels. Adjustable ring can be fixed along marked positions in order to open the centralizer at required DN.
Suitable for 1" nozzles (Maniago)

	1" F/M
DN	225-600 mm
Weight	9,3 kg
Length	600 mm
Max pressure	300 bar
#	5025.01



GREAT NOZZLES FOR SMALL PIPES!

Cleaning domestic drains (DN40÷200) may be one of the most challenging jobs. Nozzles are never enough.

Nozzle selection is basically made on the base of the experience, on the confidence operators have with the tools, and of course on the base of the nozzle performance.

High pressure hose size is the first question, then it's up you

When set for the right pump parameter, these nozzles can be used with jetters, skid mounted HP units or lateral reel of sewer cleaning trucks.

SILE

Conical and round head nozzles, with multiple jets configurations.

PICIUL

Compact, high thrust, round head nozzles, made by stainless steel.

MEDUNA

Round head 1/2" nozzles: good for multiple bends and vertical pipes.

RAUT

Chisel point nozzles with multiple front jets

CELLINA

The standard cleaning nozzles, 35° jet inclination

PIAVE

The flat one

ARZINO

Egg shape nozzles with interchangeable inserts

TREMOL

The rotating cleaning nozzles

GRIS

Scraping nozzles

BORA

Root penetrator and destroyer

CANIN

The runner

ISONZO

The cleaner

VORTEX

Round-head nozzles

SUITABLE FOR:



Domestic drains and
condominial
sewer cleaning units



High-pressure built-in
sewer cleaning units



Vehicles equipped
for water jetting

1/8"



	Site				Piciul		Tremol	Gris
DxL	15 x 15 mm	15 x 15 mm	15 x 15 mm	15 x 15 mm	13,5 x 17 mm	13,5 x 17 mm	19 x 28 mm	18 x 28 mm
KG	8 gr	8 gr	8 gr	8 gr	8 gr	8 gr	30 gr	30 gr
∠	35°	35°	35°	35°	25°	25°	25°	25°
∠	-	1 x 0°	2 x 0° / 15°	1 + 3 x 0° / 15°	-	0°	-	-
⊙	-	-	-	-	-	-	90° / 45°	90° / 45°
⊙	> 20 mm	> 20 mm	> 20 mm	> 20 mm	> 20 mm	> 20 mm	> 30 mm	> 30 mm
#	5500.07	5500.07A	5500.07F2	5500.07TR	3520.S10	3520.S10A	75510.190R	75510.190D

1/4"



	Site			Piciul	Raut	Tremol	Gris	Arzino
DxL	18 x 29 mm	18 x 29 mm	18 x 29 mm	18 x 21 mm	19 x 31 mm	20 x 35 mm	23 x 35 mm	25 x 30 mm
KG	25 gr	25 gr	25 gr	18 gr	32 gr	58 gr	60 gr	54 gr
∠	35°	35°	-	25°	25°	25°	25°	15°
∠	0°	3 x 15° / 0°	3-4-5 x 15° / 0°	0°	3 + 1 x 20° / 0°	-	-	0°
⊙	-	-	-	-	-	90° / 35°	90° / 35°	-
⊙	> 25 mm	> 25 mm	> 25 mm	> 30 mm	> 30 mm	> 30 mm	> 40 mm	> 40 mm
#	3518.00	3518.00TR	3518.00A	3520.S13	5560.05	75510.230R	75510.230D	5526.05

3/8"



	Site		Piciul	Raut	Tremol	Gris	Arzino	Isonzo
DxL	23 x 31 mm	23 x 31 mm	25 x 24 mm	25 x 40 mm	28 x 50 mm	32 x 50 mm	30 x 37 mm	39 x 60 mm
KG	40 gr	40 gr	80 gr	80 gr	325 gr	190 gr	100 gr	370 gr
∠	35°	35°	25°	20°	25°	25°	15°	30°
∠	0°	0° / 15°	0°	3+ 1 x 15°/0°	-	-	0°	0°
⊙	-	-	-	-	90° / 85°	90° / 45°	-	-
⊙	> 20 mm	> 20 mm	> 40 mm	> 40 mm	> 50 mm	> 50 mm	> 50 mm	> 60 mm
#	3519.00	3519.00TR	3520.S19	5560.08	75510.120R	75510.121D	5527.05	65540.090

1/2" F



	Cellina	Piciul	Meduna	Vortex	Raut
DxL	28 x 46 mm	30 x 27 mm	25 x 36 mm	34 x 35 mm	34 x 55 mm
KG	95 gr	66 gr	65 gr	120 gr	200 gr
∠	35°	30°	25°	3x15°+3x30°+1x90°	6 x 20°
∠	0°	0°	0°	0°	3 x 20° + 1 x 0°
⊘	> 50 mm	> 50 mm	> 50 mm	50-200 mm	> 50 mm
#	5520.30	3520.S21	3520.210	5528.51	5560.11



	Tremol	Gris	Arzino	Isonzo	Canin	Piave
DxL	34 x 62 mm	38 x 63 mm	42 x 55 mm	49 x 80 mm	49 x 75 mm	165 x 94 x 37 mm
KG	334 gr	344 gr	280 gr	800 gr	800 gr	3,5 gr
∠	25°	25°	6 x 15°	6 x 30°	6 x 10°	4 x 5° / 10°
∠	-	-	0°	0°	0°	0°
⊙	90° / 85°	90° / 45°	-	-	-	-
⊘	> 50 mm	> 50 mm	> 80 mm	> 80 mm	> 50 mm	> 150 mm
#	75510.14R	75510.140D	5528.06C	65540.100	65540.765	65500.880

BORA



	1/4"	1/2"
DxL	58 x 62 mm	39 x 61 mm
KG	500 gr	400 gr
∠	1x18° rotating	6 x 20°
∠	0°	18° rotating
⊘	> 70 mm	> 40 mm
#	75150.02	75150.01

SUCTION NOZZLES

Sometimes vacuum is needed but it is not available, or it is not enough. Some tools can help.

VENTURI



Venturi devices work as sludge pump in order to suck liquids or solid material. They can be used:

- without vacuum pump, powered by **water**: mainly used to empty tanks, pools or flooded basement;
- with vacuum pump, powered by **air**: in order to increase vacuum capacity and depth.

	DN40	DN50	DN80	DN100
Inlet (air/water)	3/8" F	1/2" F	1/2" F	1/2" F
Suction hose	DN40 1/2"	DN50 2"	DN80 3"	DN100 4"
Suction outlet	-	2" F	3" M	4" M
Length (mm)	115	100	270	370
Weight (kg)	0,33	5	4,7	5,7
Inserts	1 x TE 1/4"	6 x M6	3 x TE M10	3 x TE M10
Maximum pressure (bar)	250	250	225	225
#	5100.00		5100.10	5100.12
Intermediate #	-	5100.01	5110.01	5110.02
Suction inlet	-	2" F	3" M	4" M

DN40 device is supplied with 5 mt of DN40 suction hose. Hose couplings have to be ordered separately (Storz, Camlock ...)

MEDUSA



Medusa is a flushing device to be fixed on the steel suction pipe. At the same time it cleans bottom and walls of the manhole and sucks sediments.

It can also be used for hydro excavation applications. Inlet: 1/2" M or F available on request.



#	Suction hose DN (mm)	Pipe OD range (mm)	KG
000D.080	80 mm / 3"	75-84	3,0
000D.100	100 mm / 4"	95-104	3,3
000D.120	120 mm / 5"	115-125	3,8
000D.200	200 mm / 8"	195-204	5,5

NOZZLES FOR LANCES

ROTOJET

Nozzle with a rotating front jet at an extremely high speed. Three versions are available with a different pressure limit: 255, 310, 400 and 600 bar.

For each version several nozzles are available differing for the orifice dimension, which corresponds to the flow (gpm), necessary to get a pressure of 276 bar. In order to select the proper orifice size it is recommended to check the table that you can download at www.nuovacontec.com

Specific repair kits are available for the replacement of the internal rotation device.



#(*)	Max Pressure (bar)		Equiv. Diam. (mm)	Flow (l/min)
75000.93/070	255	1/4" F	1,62	25
75000.93/120	255	1/4" F	2,12	43
75000.92/060	310	1/4" F	1,5	28
75000.90/200	400	1/4" F	2,7	91
75000.96/080	600	1/4" F	1,7	45

(*) Nozzles with different flow values are available upon request.



FLUSHING NOZZLES

For lances or directly connected to a HP hose.



#	Max Pressure (bar)		Ø x L (mm)	Outlet
3560.00^(*)	250	1/2" F	31x70	1/4" F
3560.60^(*)	250	3/4" F	35x90	1/4" F
3560.70^(*)	250	1" F	45x110	1/4" F
3804.009F-05^(**)	250	1/2" F	32x85	5 mm
3804.010F-05^(**)	315	3/4" F	32x85	5 mm
3804.010-05^(**)	500	3/4" M	32x85	5 mm

(*) The insert is to be ordered separately according to pressure and flow values.

(**) Longcast nozzle

FAN JET INSERTS

For lances and industrial plants.

15°	25°	40°	65°	#		Equiv. DN	Nozzle Capacity at various pressure values (lpm)						
							mm	20 bar	30 bar	50 bar	70 bar	100 bar	150 bar
	•	•		1460.C2	1/4" M	0,70	2,0	2,4	3,1	3,7	4,4	5,4	6,2
	•	•		1686.C2	1/4" M	1,12	3,0	3,6	4,7	4,7	6,6	8,1	9,3
				2103.C2	1/4" M	1,35	4,6	5,6	7,3	7,3	10,3	12,6	14,6
•	•	•	•	2116.C2	1/4" M	1,42	5,1	6,2	8,1	8,1	11,4	14,0	16,1
	•	•		2138.C2	1/4" M	1,54	6,1	7,4	9,6	11,4	13,6	16,7	19,2
•		•		2160.C2	1/4" M	1,66	7,2	8,8	11,3	13,4	16,0	19,6	22,6
		•		2181.C2	1/4" M	1,76	8,1	9,9	12,8	15,1	18,1	22,2	25,6
		•		2230.C2	1/4" M	1,98	10,1	12,4	16,0	16,0	22,6	27,7	32,0
		•		2341.C2	1/4" M	2,40	15,2	18,6	24,0	24,0	34,1	41,5	47,9



(*) Inserts with other jet angles are available upon request.

MINI-JET KIT HOSES

Three types of hoses are available to clean domestic or industrial discharges up to DN100 sized either 3/16" or 1/4" with the standard lengths of 10, 15 or 20 mt:

- **thermoplastic;**
- **rubber hoses;**
- **with external metal braid.**

From the reel side the standard connection is 1/4" F swivel. Upon request the hoses can be delivered with 1/2" M or F connection.

The ferrules of the front fitting are shorter compared to the standard ones, in order to facilitate the hose to go through bends.



#(*)	Cover	Reinforcement	OD	WP	BR	KG
With inner diameter 3/16"						
T1.03.03-020R11	Thermoplastic	Textile	10,3 mm	200 bar	25 mm	80 g/m
5913.20B.2M	Thermoplastic	Textile	8,5 mm	175 bar	25 mm	45 g/m
5947.05.20B	Thermoplastic	Metal	9,7 mm	360 bar	30 mm	125 g/m
T1.04.03-020R11	Rubber	Metal	9,3 mm	120 bar	20 mm	90 g/m
5929.P03.20B	Rubber	Metal	8,8 mm	120 bar	20 mm	148 g/m
5926.20B	No	Metal	8,0 mm	210 bar	35 mm	90 g/m
With inner diameter 1/4"						
5914.20B.2F	Thermoplastic	Textile	10,6 mm	175 bar	40 mm	65 g/m
5917.20B	Thermoplastic	Textile	12,9 mm	210 bar	35 mm	115 g/m
5947.06.20	Thermoplastic	Metal	11,7 mm	310 bar	40 mm	165 g/m
T1.04.04-020R11	Rubber	Metal	11,2 mm	120 bar	25 mm	140 g/m
5929.P04.20B	Rubber	Metal	10,7 mm	120 bar	25 mm	158 g/m
5927.20B	No	Metal	9,2 mm	175 bar	45 mm	90 g/m
With inner diameter 5/16"						
5929.P05.20C	Rubber	Metal	11,8 mm	120 bar	30 mm	192 g/m

(*) The final section of the part numbers can be customized: **20B** stands for 15 m coil length with 1/8" M thread connection to the hose (B); in case of 1/2" F or 1/2" M connection on the reel side add ".2F" or ".2M" at the end.

OD: Outer diameter
WP: Max. working pressure
BR: Bending radius

REMOTE MINI REEL



Inlet	3/8" F rotating
Hose	30 mt x 3/8", 60 mt x 1/4"
Max pressure	350 bar
Max flow rate	50 lpm
#	6001.03P

FOOT OPERATED GUN



Inlet	3/8" F	1/4" F
Outlet	1/4" M	1/4" M
Max pressure	350 bar	500 bar
Max flow rate	45 lpm	80 lpm
Max temperature	150° C	150° C
#	9.0503-01	9.0503-02

HOSE FITTINGS AND ACCESSORIES



HOSE

NOZZLE SIDE CONNECTION

#	HOSE	Nozzle w/HF ⁽¹⁾	Nozzle w/HF w/FJ ⁽²⁾	1/8" M thread	1/4" M thread	Ferrule
		A	B	C		
5913.__	3/16"	5500.01	5500.01A	5911.04	-	5912.05B
5914.__	1/4"	5500.012	5500.012A	5911.05B	5911.055	5912.06C
5917.__	1/4"	5500.012	5500.012A	5911.05B	5911.055	5912.06C
T1.04.03.__	3/16"	5500.01	5500.01A	5911.04	-	T1.B04.03C
5926.__	3/16"	5500.01	5500.01A	5911.04	-	5912.05B
5927.__	1/4"	5500.012	5500.012A	5911.05B	5911.055	5912.06B
5947.05.__	3/16"	5500.01	5500.01A	5911.04	-	5912.05B
5947.06.__	1/4"	5500.012	5500.012A	5911.05B	5911.055	4305.02B
5929.P03.__	3/16"	5500.01	5500.01A	5911.04	-	5912.05B
5929.P04.__	1/4"	5500.012	5500.012A	5911.05B	5911.055	5929.P04.001
5929.P05.__	5/16"	-	-	-	5929.P05.002	5929.P05.001

(1) Nozzle w/hose fitting

(2) Nozzle w/hose fitting w/front jet



HOSE FITTINGS M

with male threaded connections

#	Item
5911.04	1/8" M hose fitting for 3/16" hose (DN5)
5911.05B	1/8" M hose fitting for 1/4" hose (DN6)
5911.055	1/4" M hose fitting for 1/4" hose (DN6)
4106.01M4	1/4" M hose fitting for 5/16" hose
4104.031M	1/4" M hose fitting for 3/8" hose (DN10)
4104.032M	3/8" M hose fitting for 3/8" hose (DN10)
4104.033M	1/2" M hose fitting for 1/2" hose (DN12)

STRAIGHT ADAPTERS M/F

with F swivel fitting

#	Item
5932.09HP	HP adapter 1/4" M - 3/8" F
5932.10HP	HP adapter 1/4" M - 1/2" F
5932.12HP	HP adapter 3/8" M - 1/2" F
5932.13HP	HP adapter 1/2" M - 1/2" F
5932.14HP	HP adapter 1/2" M - 3/4" F
5932.15HP	HP adapter 3/4" M - 3/4" F
5932.16HP	HP adapter 3/4" M - 1" F
5932.18HP	HP adapter 1" M - 1" F

INOX SHORT NIPPLES

without hexagon nut



#	Item
5940.705-01	1/2" M - 1/2" M
5940.705-02	1/2" M - 3/8" M
5940.705-03	3/8" M - 3/8" M

INOX ADAPTERS



#	Item
5940.14HPI	1/2" M - 1/4" F
5940.15HPI	1/2" M - 3/8" F
5940.10HPI	3/4" M - 1/2" F
5940.04HPI	1" M - 3/4" F
5940.04I-01	1" M - 3/4" F (*)
5940.07B	1" 1/4 M - 1" F (**)
5940.07N	1" 1/4 M - 1" F NPT (**)

(*) fully threaded - (**) galvanized steel

QUICK COUPLINGS

for pressure washers

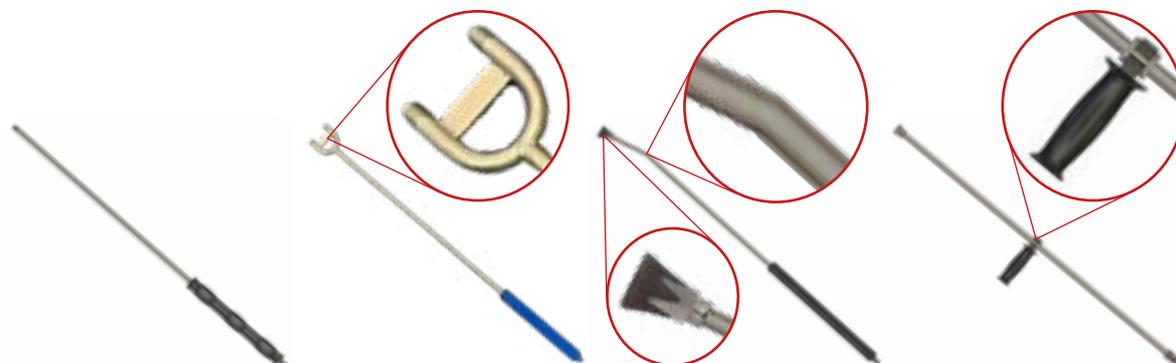


#	Item
3800.14M	Quick couplings - 1/4" M
3800.14F	Quick couplings - 1/4" F
3800.12M	Quick couplings - 1/2" M
3800.12F	Quick couplings - 1/2" F
3800.38M	Quick couplings - 3/8" M
3800.38F	Quick couplings - 3/8" F

HIGH PRESSURE GUNS AND LANCES



Inlet	3/8" F swivel	1/2" F	1/2" F swivel	1/2" F
Outlet	1/4" F	1/2" F	1/2" F	1/2" F
Max pressure	310 bar	600 bar	350 bar	310 bar
Max flow rate	45 lpm	80 lpm	200 lpm	120 lpm
Max temperature	150° C	150° C	150° C	100° C
Weight	0,62 kg	1,2 kg	1,2 kg	0,8 kg
Lance#	3801.17-0900ST	3803.0800ST	3803.0800ST	3803.0800ST
#	3801.115-02	3803.ST36	3803.ST35	3803.ST3240



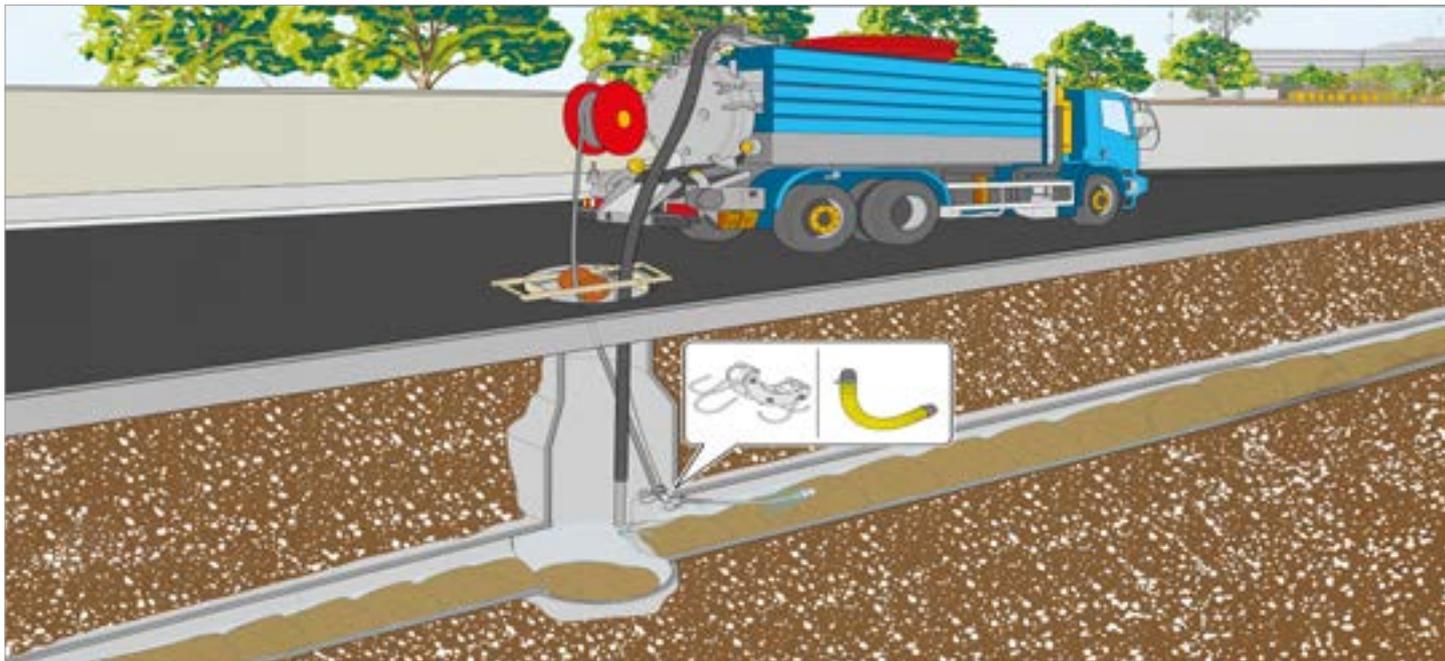
Inlet	1/4" M	1/4" M	1/4" M	1/2" M
Outlet	1/4" M	2 x 1/4" M	1/4" F NPT	1/4" F NPT
Material	Galvanized steel	Stainless steel	Galvanized steel	Stainless steel
Max WP (bar)	400	250	250	600
Short	3801.12-0500ST		3801.12-500	3803.0500ST
Medium	3801.12-0900ST	3801.17-0900U	3801.12-C0800ST	3803.0800ST
Long	3801.12-1200ST		3801.12-1200	3803.1250RL204
Nozzle protector (F/F)	3801.500-1			
Nozzle protector (F/NptF)	3801.500-2			



Inlet	3/8" F
Outlet	1/4" M
Max pressure	350 bar
Max flow rate	45 lpm
Max temperature	150° C
Weight	2,5 kg
#	3806.511-01F



SAVE HOSE DEVICES



LOWER GUIDE

- 5900.01** Stainless steel save hose device for 3/8" - 1/2" hoses. Length: 385 mm | Weight: 2,5 kg

- 5900.05A** Save hose device in SS with open arches for 3/4" and 1" hoses. Length: 504 mm | Weight 4,1 kg

- 5900.07** Galvanized steel save hose device for 1" - 1" 1/4 hoses. Length: 680 mm | Weight 8,6 kg



TIGER TAIL

- 5900.10** Tiger tail 2"/DN50 for 1/2" hoses

- 5900.15** Tiger tail 3"/DN75 for 3/4" and 1" hoses

- 5900.25** Tiger tail 4"/DN100 for 1" and 1" 1/4 hoses



MANHOLE UPPER GUIDE

- 5300.01B** Upper save-hose guide



INSERTS

WITH HEXAGONAL INTERNAL HEAD



WITH HEXAGONAL EXTERNAL HEAD



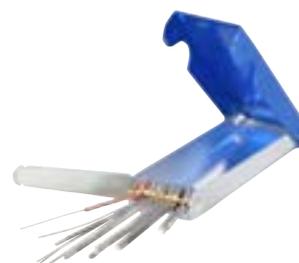
M4	85990.00 Plug 85990.xx M4x5 insert - steel* 85500.510L Tool	
M6	85992.00 Plug 85992.xx M6x8 insert - steel* 85993.xx M6x8 insert - ceramic* 85500.512L Tool	85511.00 Plug 85511.xx M6 insert - ceramic* 85511. W xx M6 insert - carbide* 85500.506-03 Tool
M8	85994.00 Plug 85994.xx M8x12 insert - ceramic* 85500.514L Tool	
M10	85997.00 Plug 85997.xx M10x12 P1 insert - ceramic* 85996.xx M10x16 P1,5 insert - ceramic* 85500.516L Tool	85510.00 Plug 85510.xx M10x1 insert - ceramic* 85510. W xx M10x1 insert - carbide* 85500.506-01 Tool
1/4"		85506.00 Plug 85506. W xx 1/4" insert - carbide* 85500.501 Tool

XX represents the diameter of the hole in tenths of a mm. Example 85510.16 Ceramic insert M10 TE d.1.6 mm

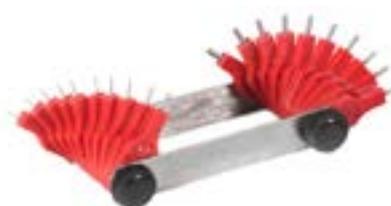
* Drillings available on the website www.nuovacontec.com

ACCESSORIES FOR INSERTS

#	Description
85500.600	Tip cleaning set
85500.605-1	Orifices measuring kit 0,45 - 1,50 mm
85500.605-2	Orifices measuring kit 1,50 - 3,00 mm
VAL.11-001	Twistpack (D.35x80)
VAL.11-002	Twistpack (D.50x80)
VAL.2	Plastic container (6 components)(100x210x35 mm)



Tip cleaning set



Orifices measuring kit



Plastic container



Hexagonal L key



Tubular box wrench

MANHOLE COVER LIFTERS



MAGNETIC HOIST MR. OLIMPIA

With rubber handles, knuckle joint and 240 cm² surface area magnet for exceptional magnetic power even on covers with very structured or dirty surface.

MAGNETIC HOIST SUPER STRONG FLEX

With hook and hammer, this tool makes lifting manhole covers easier than ever.

5400.25-03	Magnetic Hoist MR. OLIMPIA (400 kg)
5400.25-02S	Magnetic Hoist SUPER STRONG (250 kg)
5400.25-02SF	Magnetic Hoist with flexible joint and hammer (SUPER-STRONG) 250KG

ADAPTER FOR MANHOLE COVER LIFTERS



ADAPTER FOR MR. OLIMPIA MANHOLE LIFTER

The Mr. Olimpia Manhole Lifter Adapter is a wheeled tool for use with the magnetic Mr. Olimpia Manhole Lifter. Thanks to its wheels and lever mechanism, it facilitates lifting and repositioning of manhole covers with minimal effort for the operator.

5400.25-03C Adapter for MR. OLIMPIA (400 kg)

de**SIGN**
PRO**D**uction
SA**L**E
AP**L**ICA**T**ions**S**


made in **ITALY**




*Use a good nozzle when cleaning drains and sewer
or before any inspection and rehabilitation.
Job and life will be easier!*

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