



# SEWER CLEANING NOZZLES CATALOG



nuova**ConTec**

At the end of any high pressure cleaning process a **nozzle** is always required.  
It takes water from the pump through the pipe and turns it into a work tool.  
This tool may be used to unblock an obstructed pipe, to clean a storm drain,  
to break down an obstruction, to remove sand or roots....  
or it simply helps you doing a good job.

**Nuova Contec** is aware of the importance that you give to your equipment  
and therefore invested years to develop and research the best solutions  
for the people who made high pressure a life choice.

Our **mission** is to help our customers make the right choice.

We provide you our **experience, research and development**  
and especially our ability to offer **quality products at the right price.**

This catalogue is for operators of the high pressure drain pipe cleaning industry.  
The aim of the catalogue is to guide you to the work tools that suit your needs.

The catalogue is very easy to consult and dynamic.

We added QR codes for direct connection with your smartphone or tablet;  
you can watch demo videos to visualize the actual functionality of our nozzles.

Try it out now! The QR code below will connect you directly  
to the **Nuova Contec channel.**

**Make your choice and enjoy your work!**



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Nuova Contec reserves the right to change the characteristics of its products at any time.  
The products and the accessories provided may not be identical to those shown in the photos.

Updated data sheets are available on our website for each nozzle series.

To have videos and photos of our products always at hand, join our channels



<https://t.me/myjobchannel>

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and follow our profiles on



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## LEGEND

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

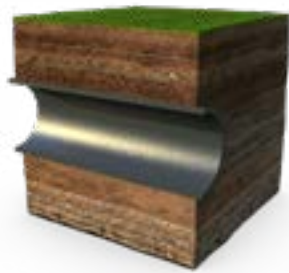
 Weight	 Lower jets	 Inserts
 Front jets	 Upper jets	 Working DN
 Rear jets	 Jets of rotation/side	 Nozzle compatible with water recycling systems

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

# JETTING TROU



DRAIN AND SEWER  
CLEANING NOZZLES



PICIUL



ITALO



FARA



AGGRESSIVE NOZZLES  
FOR LIMESTONE REMOVAL



GRIS



TREMOL



RAVEDIS



HEAVY DUTY NOZZLES  
FOR SAND AND MUD REMOVAL



PIAVE



CANIN



NATISONE



ROOT CUTTING  
NOZZLES



ROOT RANGER



AVIAN



SOLO



UNBLOCKING NOZZLES  
(GREASE AND OBSTRUCTIONS)



BORA



RAUT



AVIAN TURBINA

# BLESHOOTING



DURANNO



MAGREDI PLUS



RAUT



AVIAN



MAGREDI



VENTURI



CARNIA/FRIULI



MANIAGO



LIVENZA



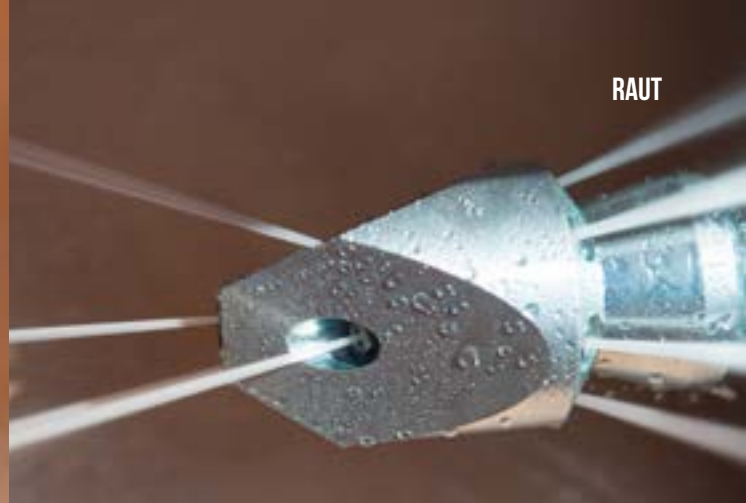
ARZINO







FARA



RAUT

# SEWER CLEANING NOZZLES

We offer a wide range of nozzles with interchangeable **carbide (W)**, ceramic or steel inserts for sewer cleaning application. These nozzles differ in size, weight, shape (grenade, torpedo triangle ...), number and angle of jets, both rear and front ones.

All nozzles are made by hardened steel, some of them by hardened stainless steel.

**Carbide** inserts (**W**) are more resistant and durable compared with conventional ones (ceramic or steel).

They are strongly recommended with water recycling system.

Advantages:

- higher cleaning efficiency
- less water and fuel consumption
- longer nozzle life and less maintenance costs

## FANNA

Round head nozzles for cleaning application

## FARA AND DURANNO

Heavy **grenade** nozzles with interchangeable carbide or ceramic inserts

## CANIN

**High traction** capacity torpedo nozzles with carbide or ceramic interchangeable inserts

## ITALO

**Egg** stainless steel cleaning nozzles, with carbide inserts

## ISONZO

Stainless steel heavy nozzles, torpedo shape, with carbide or ceramic inserts

## RAUT

Triangle shaped nozzles with 4 front jets for unblocking application or top-bottom cleaning

## BORA

Round head stainless steel nozzles with **high impact** front spinning jet for unblocking applications (grease, roots, ice...).

## LIVENZA

Lightweight conical head nozzles with **high traction**

## ARZINO

**Egg** nozzles

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

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

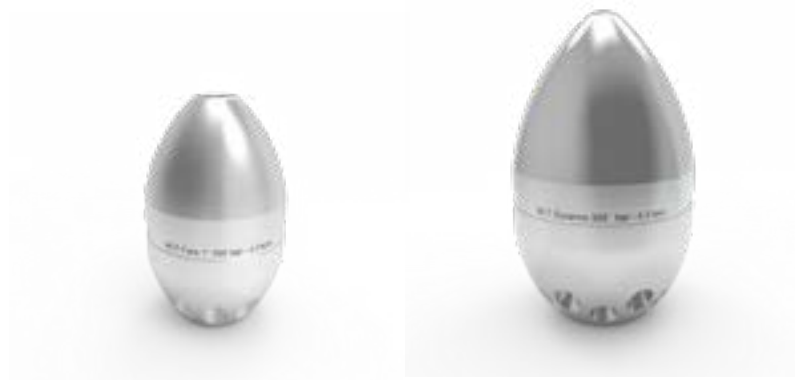
Example:

**65540.600** Fara 1" nozzle w/ceramic inserts

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

# FARA AND DURANNO

Highly efficient heavy duty  
nozzles with ceramic or carbide  
interchangeable inserts.  
Supplied in stainless steel on request



	Fara 1" F	Duranno 1" F      1" 1/4 F
<b>DxL</b>	87 x 140 mm	107 x 180 mm
<b>KG</b>	3.6 kg	7,7 kg
<b>&gt;</b>	10 x 15°	7 x 20° + 7 x 30°
<b>☐</b>	<b>85510.Wxx</b>	<b>85510.Wxx</b>
<b>⊘</b>	150-400 mm	300-1000 mm
<b>#</b>	<b>65540.600W</b>	<b>65540.811W      65540.801W</b>

# CANIN

Very high traction torpedo nozzles



	1/2" F	3/4" F	1" F	1" 1/4 F
<b>DxL</b>	49 x 75 mm	68 x 125 mm	98 x 98 x 202 mm	
<b>KG</b>	0,8 kg	2.5 kg	5.6 kg	
<b>&gt;</b>	6 x 10°	3 x 6° + 3 x 12°	5 x 5° + 5 x 10°	
<b>☐</b>	<b>85511.Wxx</b>	<b>85510.Wxx</b>	<b>85510.Wxx</b>	
<b>⊘</b>	80-200 mm	100-250 mm	150-400 mm	
<b>#</b>	<b>65540.765W</b>	<b>65540.760W</b>	<b>65540.710W      65540.750W</b>	

# ITALO

Egg stainless steel nozzles with interchangeable carbide inserts



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

# ISONZO

Grenade nozzles made of hardened stainless steel with ceramic or carbide inserts



	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	
	6 x 30°	8 x 30°	12 x 30°	
	85511.Wxx	85510.Wxx	85510.Wxx	
	70-200 mm	80-300 mm	200-700 mm	
#	65540.100W	65540.200W	65540.420W	65540.421W



# RAUT



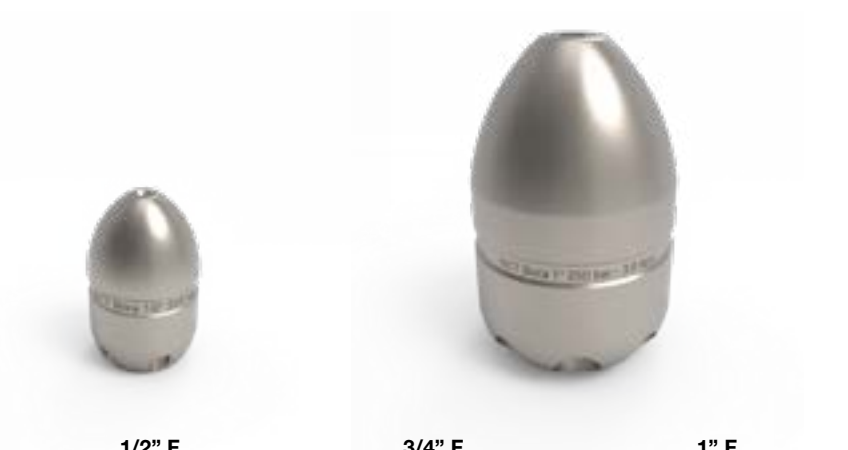
Stainless steel triangle nozzles with 4 front jets and ceramic inserts, also available with carbide inserts (**W**)



	1/2" F	3/4" F	1" F	1" 1/4 F
<b>DxL</b>	34,5 x 55 mm	50 x 92 mm	59 x 105 mm	78 x 142 mm
<b>KG</b>	0,20 kg	0,59 kg	0,94 kg	2,6 kg
<b>Angle</b>	3 x 20°	6 x 20°	6 x 20°	6 x 20°
<b>Rotation</b>	3 + 1 x 20°/0°	3 + 1 x 20°/0°	3 + 1 x 20°/0°	3 + 1 x 20°/0°
<b>Material</b>	<b>85993.xx</b>	<b>85511.(W)xx</b>	<b>85510.(W)xx</b> <b>85511.(W)xx</b>	<b>85510.Wxx</b> <b>85511.Wxx</b>
<b>Length</b>	50-250 mm	80-300 mm	100-400 mm	150-500 mm
<b>#</b>	<b>5560.11</b>	<b>5550.20C(W)</b>	<b>5550.30C(W)</b>	<b>5560.40(W)</b>

# BORA

Stainless steel nozzles with ceramic inserts and rotating front jet for a strong impact and a wide contact surface

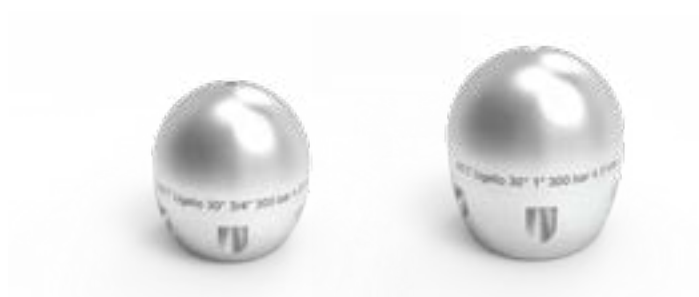


	1/2" F	3/4" F	1" F
<b>DxL</b>	39 x 61 mm	68 x 107 mm	68 x 107 mm
<b>KG</b>	0,40 kg	2,1 kg	2,1 kg
<b>Angle</b>	6 x 20°	8 x 20°	8 x 20°
<b>Rotation</b>	1 x 18° rotating	1 x 20° rotating	1 x 20° rotating
<b>Material</b>	<b>85993.xx</b>	<b>85510.xx</b>	<b>85510.xx</b>
<b>Length</b>	50-150 mm	150-350 mm	150-350 mm
<b>#</b>	<b>75150.01</b>	<b>75210.01</b>	<b>75350.01</b>



# FANNA

Round head nozzles for cleaning applications



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

# LIVENZA

Small conical nozzles with M6 interchangeable rear inserts



	3/4" F	1" F
<b>DxL</b>	49 x 58 mm	58 x 69 mm
<b>KG</b>	336 gr	500 gr
<b>Angle</b>	6 x 20°	6 x 20°
<b>Tip</b>	1 x 0°	1 x 0°
<b>Material</b>	<b>85993.xx</b>	<b>85993.xx</b>
<b>Range</b>	85 - 250 mm	100 - 300 mm
<b>#</b>	<b>5515.600C</b>	<b>5515.700C</b>

# ARZINO

High traction nozzles with interchangeable rear inserts



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

# ROTATING AND VIBRATING ACTION

## FOR THE REMOVAL OF RESISTANT OBSTRUCTIONS OR LIMESTONE SEDIMENTS

### TREMOL

Rotating nozzles with radial jets for grease and soap removal and soap

### AVIAN TURBINE

Rotating head turbine nozzles with carbide teeth, for limestone and calcified obstructions

### GRIS

Rotating nozzles with carbide tooth for limestone removal

### RAVEDIS

Vibrating nozzles with eccentric rotor for descaling and limestone removal

### MALNIS

Vibrating nozzles with eccentric rotor for PVC pipes

## TREMOL

Rotating nozzles with radial jets



	1/2" F	3/4" F	1" F	1" 1/4 F
	34 x 62	50 x 99 mm	70 x 125 mm	70 x 125 mm
	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°	2 x 90° + 2 x 85°	2 x 90° + 2 x 85°	2 x 90° + 2 x 85°
	<b>85993.xx</b>	<b>85511.xx</b>	<b>85511.xx</b>	<b>85511.xx</b>
	50 - 150 mm	100-200 mm	100-300 mm	100-300 mm
	<b>75510.14R</b>	<b>75510.350R</b>	<b>75510.250R</b>	<b>75510.270R</b>



# AVIAN TURBINE

Rotating stainless steel turbine driven  
nozzles with carbide cutting head



	1/2" F	3/4" F	1" F
<b>DxL</b>	36 x 83 mm	55 x 106 mm	74 x 140 mm
<b>KG</b>	0,37 kg	1 kg	2,3 kg
<b>°</b>	3 x 90°	3 x 90°	3 x 90°
<b>&gt;</b>	6 x 25°	4 x 20°	6 x 20°
<b>85990.xx</b>	<b>85990.xx</b>	<b>85993.xx</b> (rotation) <b>85511.xx</b> (thrust)	<b>85993.xx</b> (rotation) <b>85511.xx</b> (thrust)
<b>45 - 150 mm</b>	45 - 150 mm	70 - 250 mm	100 - 350 mm
<b>#</b>	<b>75510.17TTW</b>	<b>75510.360TTW</b>	<b>75510.260TTW</b>

# GRIS

Rotating nozzles with carbide tooth for  
limestone removal



	1/8" F	1/4" F	3/8" F	1/2" F
<b>DxL</b>	18 x 28 mm	23 x 35 mm	32 x 50 mm	38 x 63 mm
<b>KG</b>	30 gr	60 gr	190 gr	344 gr
<b>&gt;</b>	3 x 25°	3 x 25°	3 x 25°	6 x 25°
<b>°</b>	2 x 90° + 2 x 45°	2 x 90° + 2 x 35°	2 x 90° + 2 x 45°	2 x 90° + 2 x 45°
<b>40 - 90 mm</b>	40 - 90 mm	40 - 100 mm	125 - 300 mm	125 - 300 mm
<b>#</b>	<b>75510.190D</b>	<b>75510.230D</b>	<b>75510.121D</b>	<b>75510.140D</b>

# MALNIS

Stainless steel spinning nozzles with off-axis rotor for vibrating/hammering action.

Thanks to the round head it offers a light vibration and therefore recommended for PVC and gres pipes

## LIGHT VIBRATING NOZZLES



	3/8" F	1/2" F
<b>DxL</b>	30 x 56 mm	35 x 63 mm
<b>KG</b>	210 gr	350 gr
<b>&gt;</b>	3 x 20°	3 x 25°
<b>0</b>	1 x 90°	1 x 90°
<b>85990.xx</b>	<b>85990.xx</b>	<b>85990.xx</b>
<b>80-175 mm</b>	80-175 mm	80-175 mm
<b>#</b>	<b>77399.099</b>	<b>77399.250</b>

# RAVEDIS

Stainless steel spinning nozzles with off-axis rotor for vibrating/hammering action.

Crowned head nozzles are more aggressive and effective in descaling and limestone removal

**ATTENTION!** Never use these nozzles in gres, ceramic or thin PVC pipes

## HEAVY VIBRATING NOZZLES



	1/4" F	1/2" F	3/4" F	1" F
<b>DxL</b>	30 x 60 mm	48 x 95 mm	58 x 110 mm	78 x 126 mm
<b>KG</b>	0,24 kg	0,81 kg	1,4 kg	3 kg
<b>&gt;</b>	3 x 25°	6 x 10°	6 x 10°	5 x 25°
<b>0</b>	1 x 90°	1 x 90°	1 x 90°	1 x 70° + 1 x 90°
<b>85990.xx</b>	<b>85993.xx</b>	<b>85993.xx</b>	<b>85993.xx</b>	<b>85511.xx</b>
<b>50-125 mm</b>	100-225 mm	125-300 mm	125-300 mm	125-300 mm
<b>#</b>	<b>77400.050</b>	<b>77400.250</b>	<b>77400.650</b>	<b>77400.750</b>



# DESANDERS NOZZLES

NATISONE

MAGREDI PLUS

The main characteristics of the desanding nozzles are the high weight and the orientation of the jets towards the bottom of the pipe, so as to concentrate all the water flow of the pump in the thrust and simultaneous removal of mud, sand and sediment deposits.

We recommend the use of **rotary swivels** to connect these heavy nozzles to the high pressure hoses.

These nozzles are supplied with interchangeable ceramic or **carbide (W)** inserts. The latter ones are recommended with water recycling systems.

## MAGREDI

Sledge nozzle with washing jets having different inclinations for a more effective work in pipes up to DN 1500.

These nozzles can have 2 different configurations depending on the operating requirements:

- **Basic:** sledge desander with 9 jets having differentiated inclinations ( $0^\circ$  -  $25^\circ$ ) oriented towards the bottom of the pipeline
- **Plus:** sledge desander with 9 jets having differentiated inclinations ( $0^\circ$  -  $25^\circ$ ) oriented towards the bottom of the pipeline and 7 jets at  $90^\circ$  and  $75^\circ$  towards the sides and the top of the pipe for a more direct and incisive cleaning action

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

Example:

**65500.800** Natisone 3/4" nozzle w/ceramic inserts

**65500.800W** Natisone 3/4" nozzle w/**carbide** inserts

## NATISONE

Self-balancing heavy-duty desanding nozzles with direct water jets towards the bottom of the pipeline for sand and sediments efficient removal.

To be used in circular or ovoid pipelines

## STRAIGHT ROTATING SWIVELS



**5030.20A**  
3/4"



**5030.25A**  
1"



**5030.32A**  
1" 1/4"



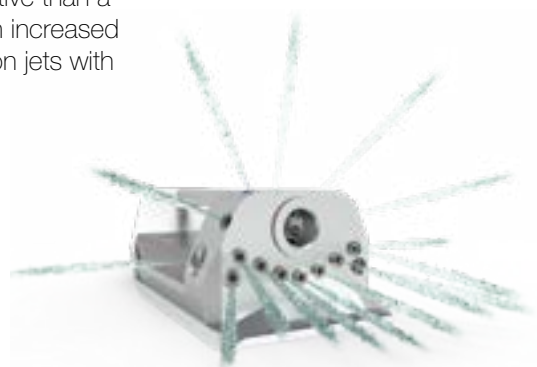
# MAGREDI AND MAGREDI PLUS

**Basic** configuration with 9 jets for sand and debris removal in flat/big pipes.

**Plus** configuration with 16 jets makes it an all-around cleaning nozzle, more effective than a conventional nozzle: lower part of the pipe is flushed with low inclination jets for an increased traction and removal capacity. Upper side of the pipe is flushed with high inclination jets with increased cleaning efficiency than a conventional nozzle.



Basic



Plus

	3/4"	1"	1"	1" 1/4
<b>LxLxH</b>	355x160x120 mm			
<b>KG</b>	17 kg	17 kg	22 kg	22 kg
<b>Angle</b>	9 x 0° / 5° / 10° / 15° / 25°			
<b>Angle</b>	2 x 90° + 5 x 75° (PLUS)			
<b>Model</b>	<b>85510.Wxx</b>			
<b>Range</b>	400-1500 mm			
<b>#Basic</b>	<b>65500.872W</b>	<b>65500.87W</b>	<b>65500.870W</b>	<b>65500.871W</b>
<b>#Plus</b>	<b>65500.872RW</b>	<b>65500.87RW</b>	<b>65500.870RW</b>	<b>65500.871RW</b>

# NATISONE

**Self-balancing** heavy torpedo nozzles



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

# ROOT-CUTTERS

CARNIA

SOLO

Rotating nozzles with chains for the removal of roots, rust, limestone and unsuccessful liners.

The factors to consider when choosing the tool are:

- dimensions of the pipeline;
- typology of the obstruction to be removed;
- characteristics of the high pressure pump and water delivery pipe size.

In the following table you can find the different types of root-cutters compatible with different working diameters.

Chain nozzles should always be used with chains and centralizer suitable for the pipe diameter.

## AVIAN

Multifunctional stainless steel nozzle with interchangeable rotating head. They can be converted into a milling cutter by replacing the head

## SOLO

Nozzles with circular chains equipped with carbide plates to clean for innovative and highly effective cleaning and scarifying

## CARNIA AND FRIULI

Ring chain nozzles with interchangeable heads for use in DN 100-350 (Carnia) and DN 200-500 (Friuli)

## MANIAGO

Roller chain nozzles with milling heads for use in DN 200-600

## ROOT RANGER

Highly effective nozzles for removing roots, grease and debris from DN 100-150 pipes and discharging them backwards.

It can be used in combination with professional pressure washers, compact high pressure cleaners

		WORKING DN (MM)																
NOZZLE	HOSE FITTINGS	40	50	70	80	100	125	150	200	225	250	300	350	400	500	600	700	800
AVIAN	1/2"																	
	3/4"																	
	1"																	
SOLO	1/2"																	
	3/4"																	
	1"																	
ROOT RANGER SINGLE	1/4" - 3/8"																	
	1/2"																	
ROOT RANGER DOUBLE	3/8" - 1/2"																	
ROOT RANGER FRONT	3/8" - 1/2"																	
	1/2"																	
CARNIA	3/4"																	
FRIULI	1"																	
MANIAGO	1"																	

# AVIAN

Stainless steel root cutter spinning nozzle package with sprocket chains. Package includes: nozzle with chain supporting head; chain set (100/125/150/200); 150 - 200 centralizer; tools and plastic case; hose connection can be adapted to 1/2", 3/4" or 1" HP hose.

## APPLICATION

Removal of roots, rust, unsuccessful liners or point repairs. Nozzle with round head can be used for pipe cleaning.



DxL  
KG  
3 x 90°  
6 x 25°  
85990.xx  
45 - 150 mm  
#Kit

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°
<b>85990.xx</b>	<b>85993.xx</b>	<b>85511.xx</b>
45 - 150 mm	80 - 250 mm	100 - 350
<b>VALK1A1.01</b>	<b>VALK3A1.01</b>	<b>VALK6A1.01</b>

# SOLO

Stainless steel spinning or turbine driven nozzle package with plastic case including circular chains for root cutting applications.



DxL  
KG  
70-100 mm  
#1  
#2

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
<b>VALK1A2.01</b>	<b>VALK3A2.01</b>	<b>VALK6A2.01</b>
<b>VALK1A2T.01</b>	<b>VALK3A2T.01</b>	<b>VALK6A2T.01</b>

#1 = Kit Solo

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



# SPARE PARTS FOR ROOT CUTTER NOZZLES

## AVIAN - SOLO



### PARTS AND COMPONENTS

(nozzle + head + accessories)

#### NOZZLES

Spinning nozzle  
(without inserts)

Inserts configuration

Turbine nozzle  
(without inserts)

Inserts configuration

#### HEADS

Chain cutting head

Carbide cutting head

SOLO head

#### CHAINS

Sprocket chain set

DN 70 SOLO chain

DN 100 SOLO chain

DN 150 SOLO chain

DN 200 SOLO chain

DN 225 SOLO chain

#### CENTRALIZERS

DN70 ring centralizer

DN100 ring centralizer

DN125 ring centralizer

DN150 ring centralizer

DN150÷200 centralizer

DN150÷300 centralizer

DN200÷450 centralizer

Case with keys

	1/2" F	VAL K1A2.01	VAL K1A2T.01	VAL K1A1.01	3/4" F	VAL K3A2.01	VAL K3A2T.01	VAL K3A1.01	1" F	VAL K6A2.01	VAL K6A2T.01	VAL K6A1.01
<b>NOZZLES</b>												
75510.17R	•	•			75510.360R	•	•		75510.260R	•	•	
TA.75510.17R	•				TA.75510.360R	•	•		TA.75510.260R	•	•	
75510.17T		•			75510.360T		•		75510.260T		•	
TA.75510.17T		•			TA.75510.360T		•		TA.75510.260T		•	
<b>HEADS</b>												
75527.25C1	○	○	•		75527.27C1	○	○	•	75527.30C	○	○	•
75527.25B	○	○	○		75527.27B	○	○	○	75527.30B	○	○	○
75527.25D	•	•	○		75527.27D	•	•	○	75527.30D	•	•	○
<b>CHAINS</b>												
75001.10A-K1	○	○	•		75001.11-K1	○	○	•	75001.15-K1	○	○	•
50.CC070-8	•	•	○									
50.CC100-8	•	•	○		50.CC100-12	•	•	○				
					50.CC150-12	•	•	○	50.CC150-12	•	•	○
									50.CC200-12	•	•	○
									50.CC225-12	○	○	○
<b>CENTRALIZERS</b>												
5305.12A	•	•	•									
5305.12B	•	•	•		5305.34B	•	•	○				
					5305.34A	○	○	•				
					5305.34C	•	•	○				
									5305.10	•	•	•
					5023.02	○	○	○				
									5023.01-1	○	○	○
	•	•	•			•	•	•		•	•	•

## CARNIA - FRIULI - MANIAGO



#### NOZZLES

Spinning nozzle  
(without inserts)

Inserts configuration

#### HEADS

Knives cutting head

Chain cutting head

Carbide cutting head

#### CHAINS

DN 200 chains

DN 250 chains

DN 300 chains

DN 350 chains

DN 400 chains

DN 450 chains

DN 500 chains

DN 550 chains

DN 600 chains

CARNIA 3/4" F	FRIULI 1" F	MANIAGO 1" F
75000.100.ST	75000.070.SI	75000.04.SI
TA.75000.10	TA.75000.07	TA.75000.04
		75000.42
75527.27C1	75527.30C	
75527.27/1	75527.30B	
75000.085-13		75000.04-KM200
		75000.04-KM250
75000.085-19	75001.07-17	75000.04-KM300
		75000.04-KM350
	75001.07-21	75000.04-KM400
		75000.04-KM450
		75000.04-KM500
		75000.04-KM550
		75000.04-KM600

# CARNIA - FRIULI - MANIAGO

Stainless steel spinning nozzles with ring chains, interchangeable head and ceramic inserts

			
	<b>Carnia 3/4"</b>	<b>Friuli 1"</b>	<b>Maniago 1"</b>
	60 x 150 mm	74 x 170 mm	120 x 170 mm
	1,5 kg	2,9 kg	3,8 kg
	6 x 90°	6 x 90°	3 x 90°
	6 x 20°	6 x 20°	3 x 20°
	<b>85993.xx</b> (rotation)	<b>85511.xx</b>	<b>85993.xx</b> (rotation)
	<b>85511.xx</b> (thrust)		<b>85510.xx</b> (thrust)
	100-350 mm	200-500 mm	200-600 mm
	<b>VALK3C.01</b>	<b>VALK6C.01</b>	<b>K25.RC00</b> <b>K25.RC01</b> <b>K25.RC02</b>

## RECOMMENDED GUIDE:



Carnia nozzle mounted on centralizer DN200-450 (#5023.01-1)



Maniago nozzle mounted on centralizer DN200-600 (#5025.01)

# CENTRALIZERS

For root cutters and rotating nozzles

## DN 150-300 centralizer

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

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



## DN 200-450 centralizer

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

	<b>1" F/M</b>
DN	200-450 mm
Weight	7,5 kg
Length	325 mm
Max pressure	300 bar
#	<b>5023.01-1</b>



**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)

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



# ROOT RANGER SERIES

## ROOT RANGER SINGLE

Extremely effective, it is sold worldwide to plumbers who need effective pipe cleaning the first time.

Made of high strength stainless steel to last many years.



## ROOT RANGER DOUBLE

The nozzle has three components: the dual Root Ranger Pressure Bend and the two Rotojets.

The Rotojets are equipped with rotating ceramic inserts that generate a rotating conical jet approximately 20° wide to remove and wash any type of filling.







## ROOT RANGER FRONT

This nozzle has less thrust than other nozzles in the series, but still will be able to remove tough blocks where other conventional nozzles would not. It also has the ability to flush both forwards and backwards. The large Root Ranger nozzle will devastate tougher blocks with the aggressiveness of the turbine front jet.



All nozzles are BSPP threaded. Quick connector nipples or other connectors are available on request.



	Single	Double	Front	Front+
	-	-	1 @ 20° (*)	1 @ 20° (*)
	1 @ 20° (*)	2 @ 20° (*)	1 @ 20° (*)	1 @ 20° (*)
	100 – 225 mm	125 – 250 mm	100 – 250 mm	125 – 300 mm
	0,55 kg	1,33 kg	0,9 kg	1,9 kg
<b>LxLxH</b>	112 x 61 x 34 mm	139 x 70 x 57 mm	179 x 64 x 40 mm	235 x 70 x 55 mm
<b>1/4"</b>	<b>77532.01</b>			
<b>3/8"</b>	<b>77532.02</b>	<b>77534.02</b>	<b>77533.01</b>	
<b>1/2"</b>	<b>77532.00L</b>	<b>77534.03</b>	<b>77533.03</b>	<b>77533.00L</b>

(\*) Helix Cone



# CLEANING DOMESTIC DRAINS (DN30-200)

The nozzles in this category satisfy the most ordinary cleaning needs in domestic and condominium pipelines, combining materials (stainless steel and not), weight, small dimensions and thrust jet inclinations.

Normally these nozzles have 1/8", 1/4", 3/8", and 1/2" female threads but they are also available with M threads.

## SILE

Conical and round head nozzles with different configurations of front jets to break through the difficult obstructions

## PICIUL

Compact, high thrust, stainless steel nozzles

## MEDUNA

1/2" round head nozzles, short and with high traction; ideal for overcoming vertical columns and multiple 90° bends

## RAUT

Small nozzles with triangular front jets for breaking through obstructions

## CELLINA

Standard nozzles with 35° jets

## PIAVE

Flat nozzle with 1/2" F hose fitting and ceramic inserts, to be used in square or rectangular pipes

## ARZINO

Egg nozzles with interchangeable inserts (steel or ceramic), with 15° jets to give the nozzle thrust and traction

## TREMOL

Small nozzles with rotating radial jets ideal for grease and soap removal

## GRIS

Small nozzles with rotating radial jets and with tooth

## BORA

Granade stainless steel nozzles with high impact rotating front jet

## CANIN

Very high traction torpedo nozzles with 5°/10° jets

## ISONZO

Granade stainless steel nozzles with 30° washing jets

## SUITABLE FOR:



*domestic drains and  
condominial  
sewer cleaning units*



*High-pressure built-in  
sewer cleaning units*



*Vehicles equipped  
for water jetting*

# 1/8"



	Sile				Piciul		Tremol	Gris
<b>DxL</b>	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
<b>KG</b>	8 gr	8 gr	8 gr	8 gr	8 gr	8 gr	30 gr	30 gr
<b>&gt;</b>	35°	35°	35°	35°	25°	25°	25°	25°
<b>&gt;</b>	-	1 x 0°	2 x 0° / 15°	1 + 3 x 0° / 15°	-	0°	-	-
<b>&gt;</b>	-	-	-	-	-	-	90° / 45°	90° / 45°
<b>&gt;</b>	> 20 mm	> 20 mm	> 20 mm	> 20 mm	> 20 mm	> 20 mm	> 30 mm	> 30 mm
<b>#</b>	<b>5500.07</b>	<b>5500.07A</b>	<b>5500.07F2</b>	<b>5500.07TR</b>	<b>3520.S10</b>	<b>3520.S10A</b>	<b>75510.190R</b>	<b>75510.190D</b>

# 1/4"



	Sile			Piciul	Raut	Tremol	Gris	Arzino
<b>DxL</b>	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
<b>KG</b>	25 gr	25 gr	25 gr	18 gr	32 gr	58 gr	60 gr	54 gr
<b>&gt;</b>	35°	35°	-	25°	25°	25°	25°	15°
<b>&gt;</b>	0°	3 x 15° / 0°	3-4-5 x 15° / 0°	0°	3 + 1 x 20° / 0°	-	-	0°
<b>&gt;</b>	-	-	-	-	-	90° / 35°	90° / 35°	-
<b>&gt;</b>	> 25 mm	> 25 mm	> 25 mm	> 30 mm	> 30 mm	> 30 mm	> 40 mm	> 40 mm
<b>#</b>	<b>3518.00</b>	<b>3518.00TR</b>	<b>3518.00A</b>	<b>3520.S13</b>	<b>5560.05</b>	<b>75510.230R</b>	<b>75510.230D</b>	<b>5526.00</b>

# 3/8"



	Sile			Piciul	Raut	Tremol	Gris	Arzino	Isonzo
<b>DxL</b>	23 x 31 mm	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
<b>KG</b>	40 gr	40 gr	40 gr	80 gr	80 gr	325 gr	190 gr	100 gr	370 gr
<b>&gt;</b>	35°	35°	-	25°	20°	25°	25°	15°	30°
<b>&gt;</b>	0°	0° / 15°	1 + 6 x 0°/15°	0°	3+ 1 x 15°/0°	-	-	0°	0°
<b>&gt;</b>	-	-	-	-	-	90° / 85°	90° / 45°	-	-
<b>&gt;</b>	> 20 mm	> 20 mm	> 20 mm	> 40 mm	> 40 mm	> 50 mm	> 50 mm	> 50 mm	> 60 mm
<b>#</b>	<b>3519.00</b>	<b>3519.00TR</b>	<b>3519.00A</b>	<b>3520.S19</b>	<b>5560.08</b>	<b>75510.120R</b>	<b>75510.120D</b>	<b>5527.00</b>	<b>65540.090</b>

# 1/2" M



	Cellina	Meduna	Arzino	Raut	Tremol
DxL	25 x 50 mm	25 x 43 mm	31 x 48 mm	30 x 59 mm	35 x 77 mm
KG	120 gr	70 gr	130 gr	145 gr	325 gr
>	35°	25°	35°	6 x 25°	25°
>	0°	-	0°	3 x 25° + 1 x 0°	-
0	-	-	-	-	90° / 85°
0	> 50 mm	> 50 mm	> 40 mm	> 70 mm	> 50 mm
#	<b>5520.20</b>	<b>3520.110</b>	<b>5529.06</b>	<b>5550.10M</b>	<b>75510.14M</b>

# 1/2" F



	Cellina	Piciul	Meduna	Raut	Tremol	Gris
DxL	28 x 46 mm	30 x 27 mm	25 x 36 mm	34 x 55 mm	34 x 62 mm	38 x 63 mm
KG	95 gr	66 gr	65 gr	200 gr	334 gr	344 gr
>	35°	30°	25°	6 x 20°	25°	25°
>	0°	0°	0°	3 x 20° + 1 x 0°	-	-
0	-	-	-	-	90° / 85°	90° / 45°
0	> 50 mm	> 50 mm	> 50 mm	> 50 mm	> 50 mm	> 50 mm
#	<b>5520.30</b>	<b>3520.S21</b>	<b>3520.210</b>	<b>5560.11</b>	<b>75510.14R</b>	<b>75510.140D</b>



	Arzino	Isonzo	Canin	Bora	Piave
DxL	42 x 55 mm	49 x 80 mm	49 x 75 mm	39 x 61 mm	165 x 94 x 37 mm
KG	280 gr	800 gr	800 gr	400 gr	3,5 gr
>	6 x 15°	6 x 30°	6 x 10°	6 x 20°	4 x 5° / 10°
>	0°	0°	0°	18° rotante	0°
0	> 80 mm	> 80 mm	> 50 mm	> 40 mm	> 150 mm
#	<b>5528.06C</b>	<b>65540.100</b>	<b>65540.765</b>	<b>75150.01</b>	<b>65500.880</b>

# VENTURI PUMP

The Venturi devices allow the operator to suck liquid or solid materials thanks to the Venturi-effect generated by the speed of water jets within the cone. The fluid goes through a restriction and creates the vacuum

## APPLICATION

This device can be used:

1. as a pump supplied by high pressure water to empty tanks, pools or flooded basements.  
**#5100.00** does not require vacuum pumps and is compatible with portable water jetters
2. in order to help suction pump for increasing speed and depth.  
For this application, it can be used with water or air, depending on the density of the sludge to be sucked

Suction hose has to be connected to the outlet in order to discharge sludge.  
Suction capacity depends on flow and depth (see chart).  
Inserts size has to be selected on the base of pump parameter (flow and pressure).  
Couplings for suction hose are not included (to be ordered separately).  
Double threaded versions are available upon request for steel suction hoses



	DN40	DN80	DN100
Inlet (air/water)	3/8" F	1/2" F	1/2" F
Suction DN	DN40	DN80	DN100
Length (mm)	115	270	370
Weight (kg)	0,33	4,7	5,7
Inserts	1 x TE 1/4"	3 x TE M10	3 x TE M10
Maximum pressure (bar)	250	225	225
#	<b>5100.00</b>	<b>5100.10</b>	<b>5100.12</b>
intermediate d.		<b>5110.01</b>	<b>5110.02</b>

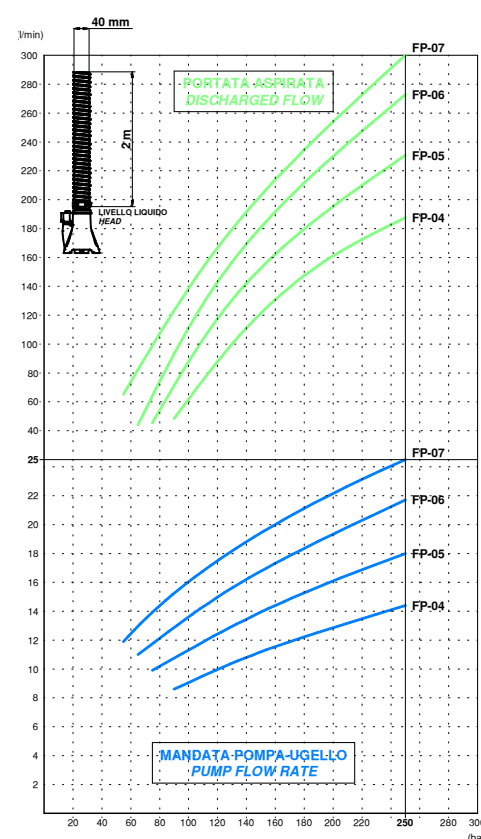
The DN40 device is provided with 5 mt of suction hose DN40 mm.



DN40 device with 5 mt of suction hose (DN40)



Double threaded intermediate device



### DN40 device:

discharged flow and pressure according to the pump flow and size of nozzle (FP).



# 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.



Part No.	Suction hose DN (mm)	Pipe OD range (mm)	Weight (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.150	150 mm / 6"	145 - 154	3,9
000D.200	200 mm / 8"	195 - 204	5,5

# FLUSHING NOZZLES

For lances or directly connected to a HP hose.



Part No.	Max Pressure (bar)	Thread	Ø x L (mm)	Weight (kg)	Orifice
3560.00	250	1/2" F	31x70	0,23	TE 1/4" M
3560.60	250	3/4" F	35x90	0,34	TE 1/4" M
3560.70	250	1" F	45x110	0,63	TE 1/4" M

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

# FLEXI ADAPTOR

Flexi nozzle adaptor for lance wigth 1/4" F inlet and outlet. The Flexi adaptor allows the operator to point a pencil/ spinning jet nozzle in multiple positions on the end of a hand lance so it can be positioned in a sewer shaft and directed at a blocked branch line. Once the pressure hits the flexible adaptor it locks in position. The problem area can then be quickly blasted out so you can get a standard jet hose up the branch line to clean the obstruction thoroughly.



3807.00	Flexi adaptor for lance 1/4" F BSPP - 1/4" F BSPT
3807.01	Reduction 1/4" M BSPT - 1/4" F BSPP from 250 bar

# SAVE HOSE DEVICES

## LOWER GUIDE

Lower guide "banana" style (**5900.07**) is used in the lower part of the manhole, at the start of the pipeline, positioned on the top edge of the pipe

It can be used in the lower part of the manhole, at the start of the pipeline.

Robust and resistant, they are equipped with teflon wheels that make the scrolling of the hose easier.

The open arches guide (**5900.05A** and **5900.01**) can be used also when the cleaning operation has already started, with the pipe and the nozzle already inside the pipeline.

The smallest lower guide (**5900.01**) can be used also to protect CCTV cable.

5 meters of rope are provided for each guide.

## ATTENTION!

Field tests have shown that using upper and lower guide **reduces friction by 50%!**

<b>5900.01</b>	Stainless steel save hose device for 3/8" - 1/2" hoses. Length: 385 mm   Weight: 2,5 kg
<b>5900.05A</b>	Save hose device in SS with open arches for 3/4" and 1" hoses. Length: 504 mm   Weight 4,1 kg
<b>5900.07</b>	Galvanized steel save hose device for 1" - 1" 1/4 hoses. Length: 680 mm   Weight 8,6 kg



## TIGER TAIL

This 90 cm long flexible guide can be used either in the lower or upper part of the manhole.

Available in different sizes (DN50/80/100) and materials (smooth or rugged PVC) to better adapt to the size and type of HP hose.

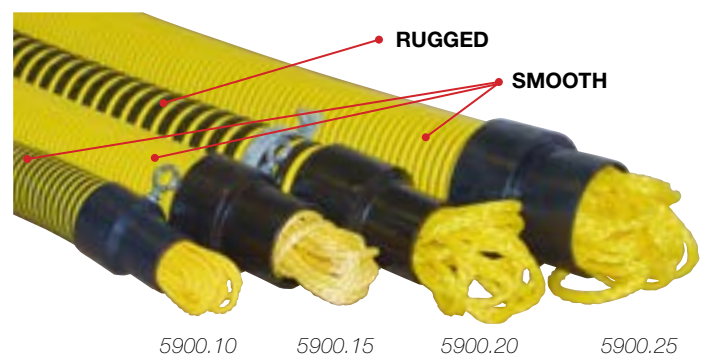
They can also be used to protect CCTV camera cables.

5 meters of rope are provided for each guide.

<b>5900.10</b>	Tiger tail 2"/DN50 for 1/2" and 3/4" hoses
<b>5900.15</b>	Tiger tail 3"/DN80 for 3/4" and 1" hoses
<b>5900.20</b>	Tiger tail 3"/DN80 (rugged)
<b>5900.25</b>	Tiger tail 4"/DN100 for hoses up to 1" 1/4

Save hose devices protect the integrity of high pressure hoses reducing friction with sharp edges.

A regular and proper use reduces the risk of pipe bursting, increases safety for the operators and the equipment around the job site.



Tiger Tail Guides

## MANHOLE UPPER GUIDE

The roller guide is needed when the reel of the sewer cleaning vehicle is not placed over the manhole.

Made of galvanized steel with red plastic wheel.

<b>5300.01B</b>	Upper save-hose guide
-----------------	-----------------------



# INSERTS

## WITH HEXAGONAL INTERNAL HEAD



M4	85990.00 Plug 85990.xx M4x5 insert - <b>steel*</b>
M6	85992.00 Plug 85992.xx M6x8 insert - <b>steel*</b> 85993.xx M6x8 insert - <b>ceramic*</b>
M8	85994.00 Plug 85994.xx M8x12 insert - <b>ceramic*</b>
M10	85997.00 Plug 85997.xx M10x12 P1 insert - <b>ceramic*</b> 85996.xx M10x16 P1,5 insert - <b>ceramic*</b>
1/4"	

## WITH HEXAGONAL EXTERNAL HEAD



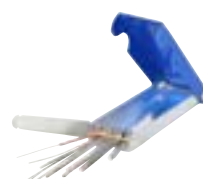
	85511.00 Plug 85511.xx M6 insert - <b>ceramic*</b> 85511.Wxx M6 insert - <b>carbide*</b>
	85510.00 Plug 85510.xx M10x1 insert - <b>ceramic*</b> 85510.Wxx M10x1 insert - <b>carbide*</b>
	85506.00 Plug 85506.Wxx 1/4" insert - <b>carbide*</b>

**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](http://www.nuovacontec.com)

# ACCESSORIES FOR INSERTS

Part number	Description
<b>85500.600</b>	Tip cleaning set
<b>85500.605-1</b>	Orifices measuring kit 0,45 - 1,50 mm
<b>85500.605-2</b>	Orifices measuring kit 1,50 - 3,00 mm
<b>VAL.11-001</b>	Twistpack (D.35x80)
<b>VAL.11-002</b>	Twistpack (D.50x80)
<b>VAL.2</b>	Plastic container (6 components)(100x210x35 mm)
<b>85500.510L</b>	Hexagonal L key 2 mm (B2) for M4
<b>85500.510</b>	Hexagonal T key 2 mm (B2) for M4
<b>85500.512L</b>	Hexagonal L key 3 mm (B3) for M6
<b>85500.512</b>	Hexagonal T key 3 mm (B3) for M6
<b>85500.514L</b>	Hexagonal L key 4 mm (B4) for M8
<b>85500.514</b>	Hexagonal T key 4 mm (B4) for M8
<b>85500.516L</b>	Hexagonal L key 5 mm (B5) for M10
<b>85500.516</b>	Hexagonal T key 5 mm (B5) for M10
<b>85500.517L</b>	Hexagonal L key 6 mm (B6) for M12
<b>85500.517</b>	Hexagonal T key 6 mm (B6) for M12
<b>85500.518</b>	Hexagonal L key 3/16" for ODP inserts
<b>85500.506-03</b>	Tubular box wrench 6 mm for TE M6
<b>85500.506-01</b>	Tubular box wrench 10 mm for TE M10
<b>85500.501</b>	Tubular box wrench 14 mm for TE 1/4" inserts
<b>85500.505</b>	Hexagonal socket 1/4" for M10x1 (10 mm)
<b>85500.500</b>	Hexagonal socket 1/2" for TE 1/4"
<b>85500.503</b>	Hexagonal socket 3/8" for AP2 inserts



Tip cleaning set



Orifices measuring kit



Plastic container



Hexagonal L key



Tubular box wrench

# WE JET THE WORLD



## OUR EXPERIENCE AT YOUR SERVICE



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