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MR. OLIMPIA + ADAPTER | SUPER STRONG

LEGEND

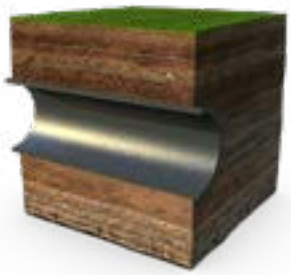
These symbols are adopted in the catalogue to represent the following entities:

- Weight
- Front jets
- Rear jets
- Lower jets
- Upper jets
- Jets of rotation/side
- Inserts
- Working DN
- 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

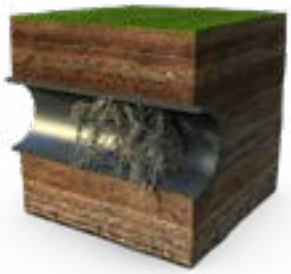
RAVEDIS

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

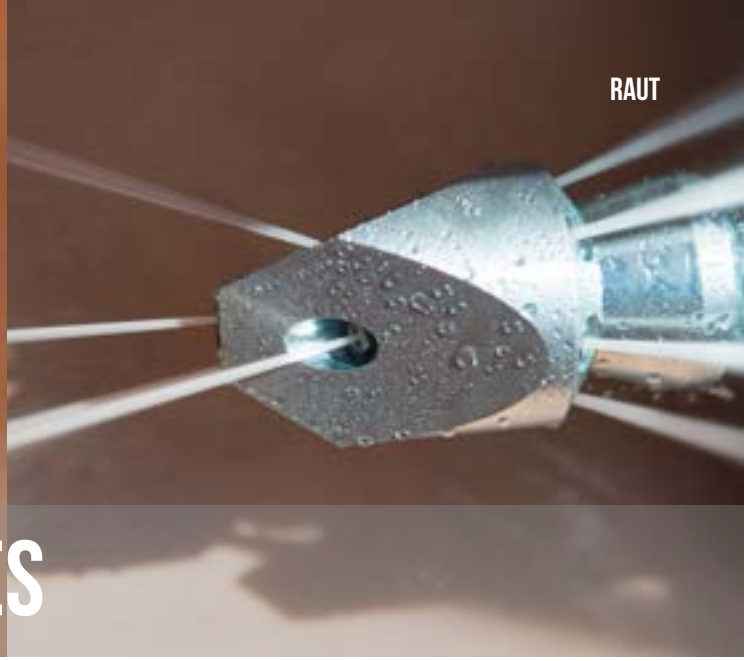
VENTURI

CARNIA/FRIULI

MANIAGO

LIVENZA

ARZINO



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

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

Stainless steel nozzles with high impact front spinning jet for unblocking applications (grease, roots, ice…).

LIVENZA

Conical head nozzles

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.

Esample:
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	Duranno	
	1¨F	1¨F	1¨¼F
DxL	87 x 140 mm	107 x 180 mm	
	3.6 kg	7,7 kg	
	10 x 15°	7 x 20° + 7 x 30°	
	85510.Wxx	***85510.Wxx***	
	150-400 mm	300-1000 mm	
#	***65540.600W***	***65540.811W***	***65540.801W***

CANIN

Very high traction torpedo nozzles

	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	
	0,8 kg	2.5 kg	5.6 kg	
	6 x 10°	3 x 6° + 3 x 12°	5 x 5° + 5 x 10°	
	85511.Wxx	***85510.Wxx***	***85510.Wxx***	
	80-200 mm	100-250 mm	150-400 mm	
#	***65540.765W***	***65540.760W***	***65540.710W***	***65540.750W***

ITALO

Stainless steel nozzles with inter-changeable 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

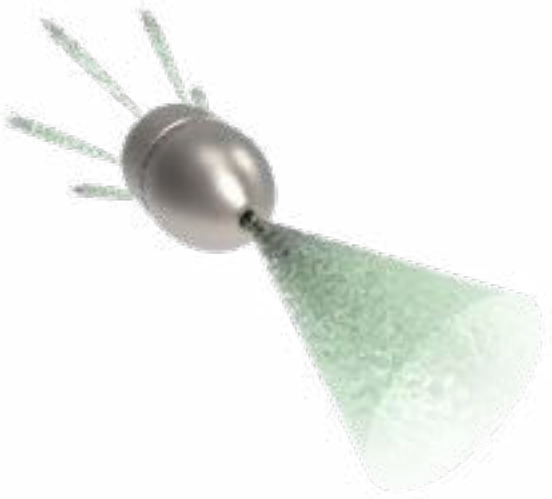
Stainless steel triangle nozzles with 4 front jets and ceramic inserts, also available with carbide inserts (**W**)

	1/2" F	3/4" F	1" F	1" 1/4 F
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
	6 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.(W)xx***	***85510.(W)xx*** ***85511.(W)xx***	***85510.Wxx*** ***85511.Wxx***
⌀	50-250 mm	80-300 mm	100-400 mm	150-500 mm
#	***5560.11***	***5550.20C(W)***	***5550.30C(W)***	***5560.40(W)***

BORA

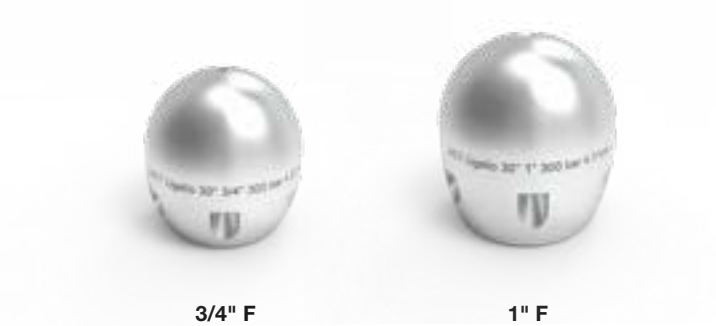
Stainless steel nozzles with ceramic inserts and rotating front jet for a strong impact and a wide contact surface

	1/2" F	1" F
DxL	39 x 61 mm	68 x 107 mm
KG	0,40 kg	2,1 kg
	6 x 20°	8 x 20°
	1 x 18° rotating	1 x 20° rotating
	85993.xx	***85510.xx***
⌀	50-150 mm	150-350 mm
#	***75150.01***	***75350.01***



FANNA

Round head nozzles for cleaning applications



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

LIVENZA

Small conical nozzles with M6 interchangeable rear inserts

	3/4" F	1" F
DxL	49 x 58 mm	58 x 69 mm
KG	336 gr	500 gr
V	6 x 20°	6 x 20°
V	1 x 0°	1 x 0°
	85993.xx	***85993.xx***
⌀	85 - 250 mm	100 - 300 mm
#	***5515.600C***	***5515.700C***

ARZINO

High traction nozzles with interchangeable rear inserts

	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
V	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***

ROTATING AND VIBRATING ACTION

FOR THE REMOVAL OF RESISTANT OBSTRUCTIONS OR LIMESTONE SEDIMENTS

TREMOL

Rotating nozzles with radial jets

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
DxL	35 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°	2 x 90° + 2 x 85°	2 x 90° + 2 x 85°	2 x 90° + 2 x 85°
	85993.xx	***85511.xx***	***85511.xx***	***85511.xx***
	50 - 150 mm	100-200 mm	100-300 mm	100-300 mm
#	***75510.14R***	***75510.35R***	***75510.250R***	***75510.27R***

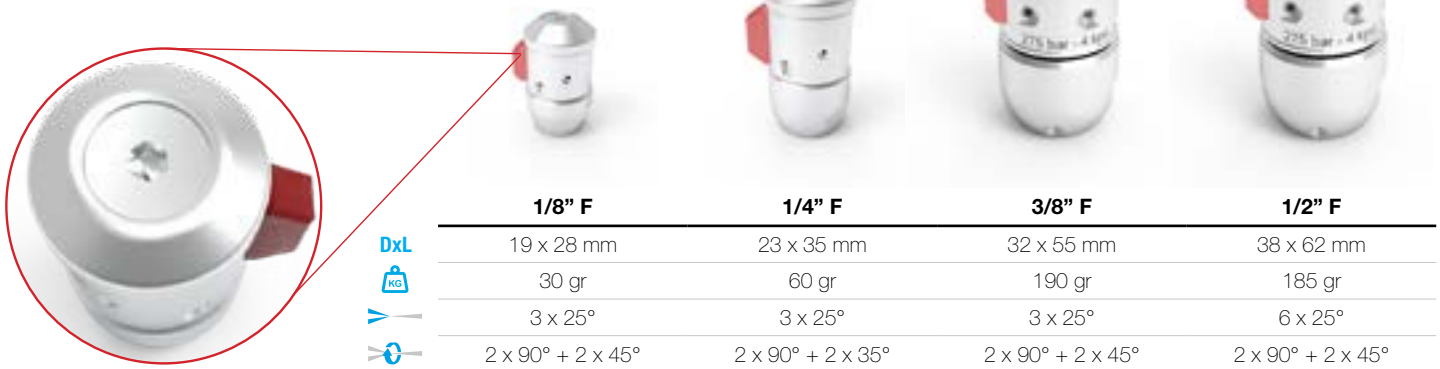
AVIAN TURBINE

Stainless steel turbine driven nozzles with carbide cutting head

	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°
	85990.xx	***85993.xx*** (rotation) ***85511.xx*** (thrust)	***85993.xx*** (rotation) ***85511.xx*** (thrust)
	45 - 150 mm	70 - 250 mm	100 - 350 mm
#	***75510.17TTW***	***75510.36TTW***	***75510.260TTW***

GRIS

Rotating nozzles with carbide tooth for limestone removal



	1/8" F	1/4" F	3/8" F	1/2" F
DxL	19 x 28 mm	23 x 35 mm	32 x 55 mm	38 x 62 mm
KG	30 gr	60 gr	190 gr	185 gr
	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°
	40-90 mm	40-100 mm	125 - 300 mm	125 - 300 mm
#	***75510.190D***	***75510.230D***	***75510.121D***	***75510.140D***

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 raccomanded for PVC pipes

LIGHT VIBRATING NOZZLES

	3/8" F	1/2" F
DxL	30 x 55 mm	35 x 63 mm
KG	210 gr	350 gr
	3 x 25°	3 x 25°
	1 x 90°	1 x 90°
	85990.xx	***85990.xx***
	80-175 mm	80-175 mm
#	***77399.099***	***77399.250***

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

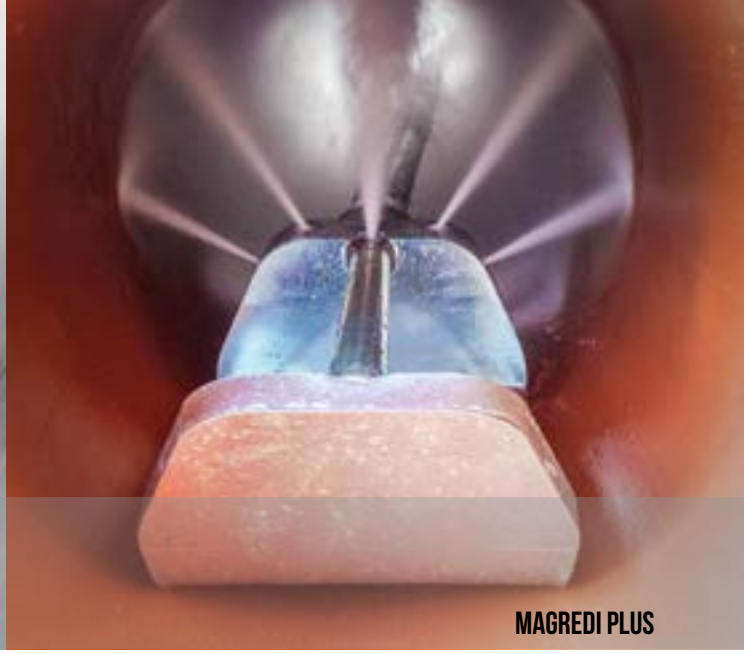
ATTENTION! Never use these nozzles in gres, ceramic or thin PVC pipes

HEAVY VIBRATING NOZZLES

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

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° - 25°) oriented towards the bottom of the pipeline
- **Plus**: washing nozzle with 9 jets oriented towards the bottom and 7 jets at 90° and 75° towards the sides and the top of the pipe for a more direct and incisive cleaning action

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

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

STRAIGHT ROTATING SWIVELS

5030.20A
3/4"

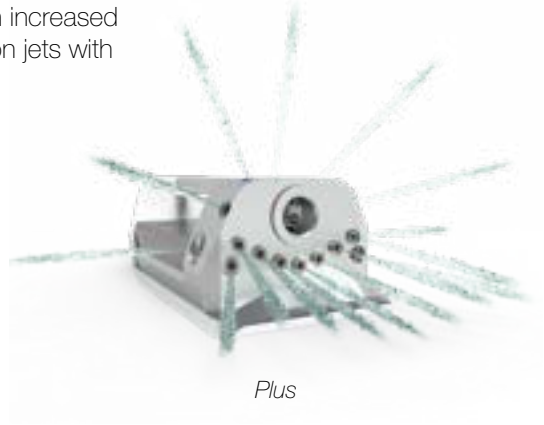
5030.25A
1"

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
LxWxH	355x160x120 mm			
KG	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***

NATISONE

Self-balancing heavy torpedo nozzles

	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***

ROOT-CUTTERS

CARNIA

SOLO

Rotating nozzles with chains for the removal of roots, rust, limestone and unsuccessfull 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 nozzle with interchangeable rotating head.
Can be converted into a milling cutter by replacing the head

SOLO

With circular chains equipped with carbide plates to clean and scarify in an innovative and extremely effective way

CARNIA AND FRIULI

Nozzles with ring chains with interchangeable heads for use in DN 100-350 (Carnia) and DN 200-500 (Friuli)

MANIAGO

It can be used with different types of chains (rings, motor or double-blade chains) in pipelines DN 200-600

ROOT RANGER

It is an extremely efficient nozzle for precise backward removal of roots, grease and debris from DN100-300 pipelines.

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

NOZZLE	HOSE FITTINGS	WORKING DN (MM) 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 ½", ¾" or 1" HP hose.

APPLICATION

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

	1/2"F	3/4"F	1" F
DxL	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***
	45 - 150 mm	80 - 250 mm	100 - 350
#Kit	***VALK1A1.01***	***VALK3A1.01***	***VALK6A1.01***

SOLO

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

	1/2"F	3/4" F	1" F
DxL	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
#1	***VALK1A2.01***	***VALK3A2.01***	***VALK6A2.01***
#2	***VALK1A2T.01***	***VALK3A2T.01***	***VALK6A2T.01***

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

SPARE PARTS FOR ROOT CUTTER NOZZLES

AVIAN - SOLO

Chain cutting head

Carbide cutting head

Solo exploded view

PARTS AND COMPONENTS
(nozzle + head + accessories)

	1/2"F	VALK1A2.01	VALK1A2T.01	VALK1A1.01	3/4" F	VALK3A2.01	VALK3A2T.01	VALK3A1.01	1" F	VALK6A2.01	VALK6A2T.01	VALK6A1.01
NOZZLES												
Spinning nozzle (without inserts)	***75510.17R***	•		•	***75510.360R***	•		•	***75510.260R***	•		•
Inserts configuration	***TA.75510.17R***	•			***TA.75510.360R***	•		•	***TA.75510.260R***	•		•
Turbine nozzle (without inserts)	***75510.17T***		•		***75510.360T***		•		***75510.260T***		•	
Inserts configuration	***TA.75510.17T***		•		***TA.75510.360T***		•		***TA.75510.260T***		•	
HEADS												
Chain cutting head	***75527.25C1***	○	○	•	***75527.27C1***	○	○	•	***75527.30C***	○	○	•
Carbide cutting head	***75527.25B***	○	○	○	***75527.27B***	○	○	○	***75527.30B***	○	○	○
SOLO head	***75527.25D***	•	•	○	***75527.27D***	•	•	○	***75527.30D***	•	•	○
CHAINS												
Sprocket chain set	***75001.10A-K1***	○	○	•	***75001.11-K1***	○	○	•	***75001.15-K1***	○	○	•
DN 70 SOLO chain	***50.CC070-8***	•	•	○								
DN 100 SOLO chain	***50.CC100-8***	•	•	○	***50.CC100-12***	•	•	○				
DN 150 SOLO chain					***50.CC150-12***	•	•	○	***50.CC150-12***	•	•	○
DN 200 SOLO chain									***50.CC200-12***	•	•	○
DN 225 SOLO chain									***50.CC225-12***	○	○	○
CENTRALIZERS												
DN70 ring centralizer	***5305.12A***	•	•	•								
DN100 ring centralizer	***5305.12B***	•	•	•	***5305.34B***	•	•	○				
DN125 ring centralizer					***5305.34A***	○	○	•				
DN150 ring centralizer					***5305.34C***	•	•	○				
DN150÷200 centralizer									***5305.10***	•	•	•
DN150÷300 centralizer					***5023.02***	○	○	○				
DN200÷450 centralizer									***5023.01-1***	○	○	○
Case with keys		•	•	•		•	•	•		•	•	•

CARNIA - FRIULI - MANIAGO

Knives cutting head

Chain cutting head

Carbide cutting head

	CARNIA 3/4" F	FRIULI 1" F	MANIAGO 1" F
NOZZLES			
Spinning nozzle (without inserts)	***75000.100.ST***	***75000.070.SI***	***75000.04.SI***
Inserts configuration	***TA.75000.10***	***TA.75000.07***	***TA.75000.04***
HEADS			
Knives cutting head			***75000.42***
Chain cutting head	***75527.27C1***	***75527.30C***	
Carbide cutting head	***75527.27/1***	***75527.30B***	
CHAINS			
DN 200 chains	***75000.085-13***		***75000.04-KM200***
DN 250 chains			***75000.04-KM250***
DN 300 chains	***75000.085-19***	***75001.07-17***	***75000.04-KM300***
DN 350 chains			***75000.04-KM350***
DN 400 chains		***75001.07-21***	***75000.04-KM400***
DN 450 chains			***75000.04-KM450***
DN 500 chains			***75000.04-KM500***
DN 550 chains			***75000.04-KM550***
DN 600 chains			***75000.04-KM600***

CARNIA - FRIULI - MANIAGO

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

	Carnia ¾”	Friuli 1”	Maniago 1”
DxL	60 x 150 mm	74 x 170 mm	120 x 170 mm
KG	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°
	85993.xx (rotation) ***85511.xx*** (thrust)	***85511.xx***	***85993.xx*** (rotation) ***85510.xx*** (thrust)
	100-350 mm	200-500 mm	200-600 mm
#Kit	***VALK3C.01***	***VALK6C.01***	***K25.RC00*** ***K25.RC01*** ***K25.RC02***

RECOMMENDED GUIDE:

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

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

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)

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

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
#	***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***

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 reserve 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° (*)	1 @ 20° (*)	2@ 20° (*)	1 @ 20° (*)	1 @ 20° (*)
⌀	100 – 225 mm	100 – 300 mm	125 – 250 mm	100 – 250 mm	125 – 300 mm
KG	0,55 kg	1,25 kg	1,33 kg	0,9 kg	1,9 kg
LxLxH	112 x 61 x 34 mm	165 x 85 x 48 mm	139 x 70 x 57 mm	179 x 64 x 40 mm	235 x 70 x 55 mm
1/4"	***77532.01***				
3/8"	***77532.02***		***77534.02***	***77533.01***	
1/2"		***77532.00L***	***77534.03***	***77533.03***	***77533.00L***

(*) 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, tu 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

GRIS

Small nozzles with rotating radial jets and with tooth

BORA

Stainless steel nozzles with high impact rotating front jet

CANIN

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

ISONZO

Stainless steel nozzles with 30° washing jets

SUITABLE FOR:

domestic drains and condominial sewer cleaning units

High-pressure built-in sewer cleaning units

Vehicles equiped for water jetting

1/8”

	Sile				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	16 x 28 mm	19 x 28 mm
KG	8 gr	8 gr	8 gr	8 gr	8 gr	8 gr	30	30
	35°	35°	35°	35°	25°	25°	25°	25°
	-	1 x 0°	2 x 0° / 15°	1 + 3 x 0° / 15°	-	0°	-	-
	-	-	-	-	-	-	90° / 25°	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”

	Sile			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	100 gr	100 gr	54 gr
	35°	35°	-	25°	25°	25°	25°	15°
	0°	0° / 15°	2 x 0° / 15°	0°	3 + 1 x 20° / 0°	No	No	0°
	-	-	-	-	-	90° / 85°	90° / 35°	90° / 85°
	> 25 mm	> 25 mm	> 25 mm	> 30 mm	> 30 mm	> 30 mm	> 30 mm	> 40 mm
#	***3518.00***	***3518.00TR***	***3518.00A***	***3520.S13***	***5560.05***	***75510.230R***	***75510.230D***	***5526.00***

3/8”

	Sile			Piciul	Raut	Tremol	Gris	Arzino	Isonzo
DxL	23 x 31 mm	23 x 31 mm	23 x 31 mm	25 x 24 mm	25 x 40 mm	30 x 62 mm	32 x 62 mm	30 x 37 mm	39 x 60 mm
KG	40 gr	40 gr	40 gr	80 gr	80 gr	325 gr	325 gr	100 gr	370 gr
	35°	35°	-	25°	20°	25°	25°	15°	30°
	0°	0° / 15°	1 + 6 x 0°/15°	0°	3+ 1 x 15°/0°	-	-	0°	0°
	-	-	-	-	-	90° / 85°	90° / 25°	-	-
	> 20 mm	> 20 mm	> 20 mm	> 40 mm	> 40 mm	> 50 mm	> 50 mm	> 50 mm	> 60 mm
#	***3519.00***	***3519.00TR***	***3519.00A***	***3520.S19***	***5560.08***	***75510.120R***	***75510.120D***	***5527.00***	***65540.090***

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°	-
	-	-	-	-	90° / 85°
	> 50 mm	> 50 mm	> 40 mm	> 70 mm	> 50 mm
#	***5520.20***	***3520.110***	***5529.06***	***5550.10M***	***75510.14M***

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	35 x 62 mm	38 x 62 mm
KG	95 gr	66 gr	65 gr	200 gr	325 gr	325 gr
	35°	30°	25°	6 x 20°	25°	25°
	0°	0°	0°	3 x 20° + 1 x 0°	-	-
	-	-	-	-	90° / 85°	90° / 25°
	> 50 mm	> 50 mm	> 50 mm	> 50 mm	> 50 mm	> 50 mm
#	***5520.30***	***3520.S21***	***3520.210***	***5560.11***	***75510.14R***	***75510.140D***

	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°
	> 80 mm	> 80 mm	> 50 mm	> 40 mm	> 150 mm
#	***5528.06C***	***65540.100***	***65540.765***	***75150.01***	***65500.880***

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

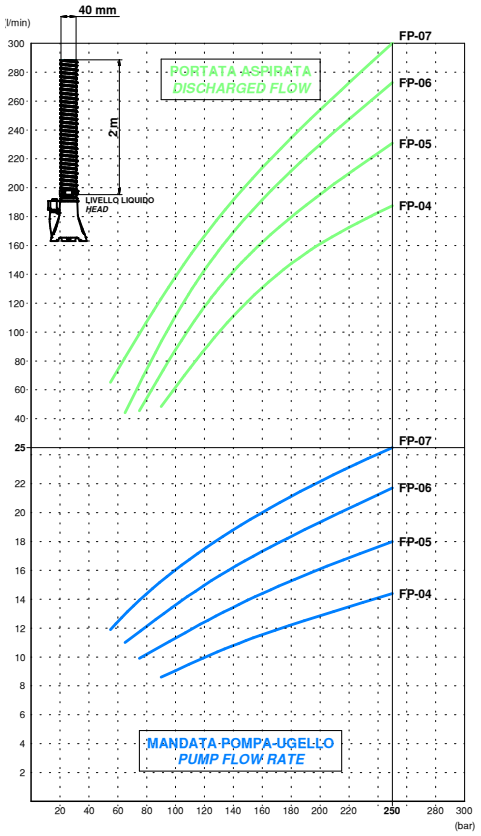
Suction hose has to be connected to the outlet in order to discharge sludge.
Suction capacity depends on flow and depth (see chart).
Inserts size has to be selected on the base of pump parameter (flow and pressure).
Couplings for suction hose are not included (to be ordered separately).
Double threaded 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
Maximum pressure (bar)	250	225	225
#	***5100.00***	***5100.10***	***5100.12***
intermediate d.		***5110.01***	***5110.02***

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 ¼" 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

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.

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.

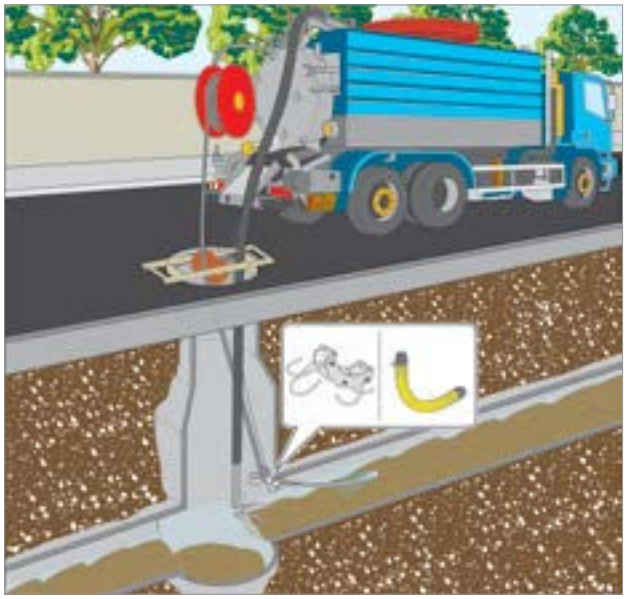
Robust and resistant, they are equipped with teflon wheels that make the scrolling of the hose easier.

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%!**

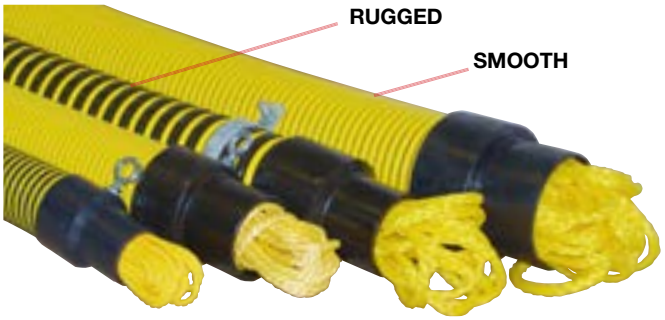


5900.01	Stainless steel save hose device for 3/8” - 1/2” hoses. Length: 385 mm | Weight: 2,5 kg
5900.05A	Save hose device in SS with open arches for ¾” and 1” hoses. Length: 504 mm | Weight 4,1 kg
5900.07	Galvanized steel save hose device for 1” - 1” 1/4 hoses. Length: 680 mm | Weight 8,6 kg

TIGER TAIL

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.

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



5900.10 *5900.15* *5900.20* *5900.25*

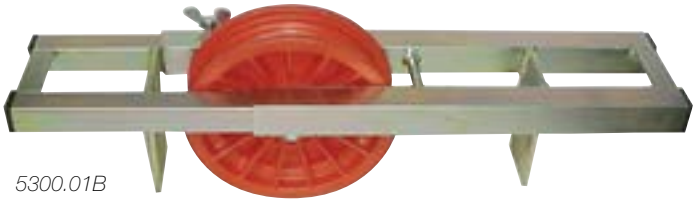
Tiger Tail Guides

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.

5300.01B	Upper save-hose guide



5300.01B

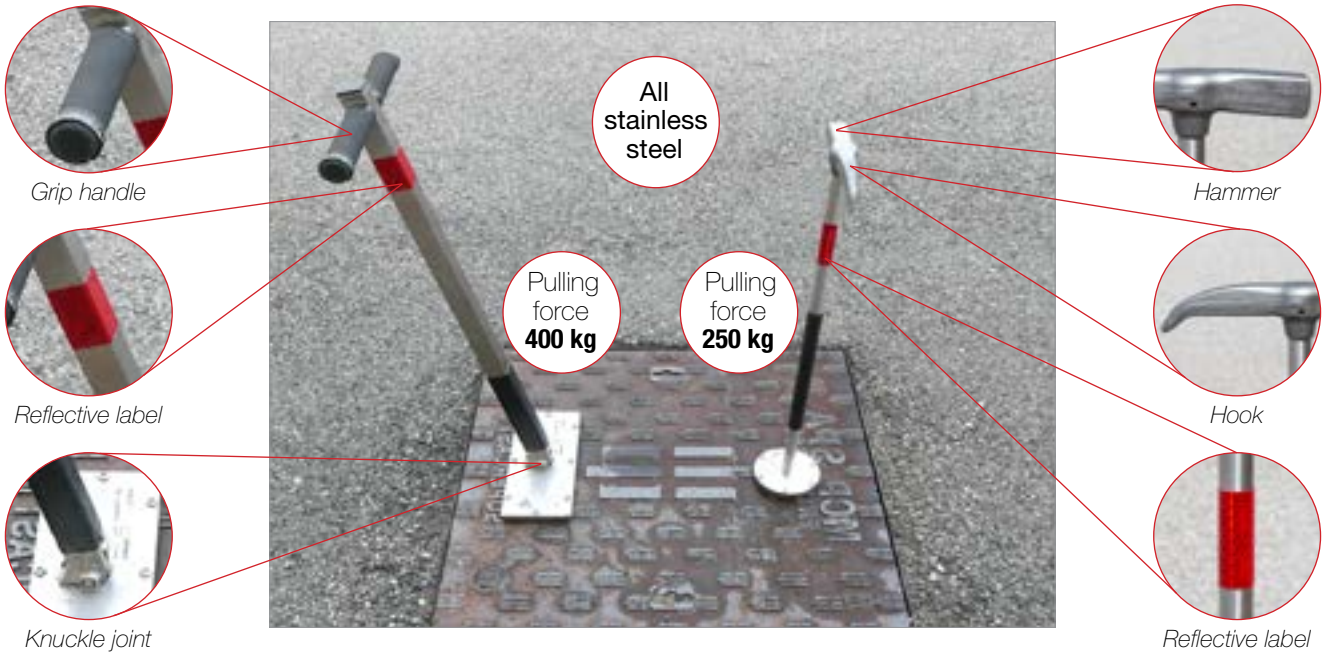
MANHOLE COVER LIFTERS

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

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)

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)