

**R.**

Catalogue 2021

**ant**

**ant Profitools Kft.**

professzionális gépek és szerszámok

Érdeklődik a RIONED csőtisztítók iránt?

Vegye fel velünk a kapcsolatot

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**Rioned Sewer  
Cleaning Machines**

Keeping your business flowing

**Rioned.**



Pipe diameter



Diesel engine



Petrol engine



PTO



Electric engine



Stage V



Water tank capacity



Water / sludge capacity



Weight of device



Vehicle weight category



High pressure reel turn/swivelling



Spring diameter



Spring length



Remote control

# SEWER CLEANING IN 2021 AND BEYOND

Since Rioned's foundation in 1956, much has changed in the sewer and drainage industry. New technologies have entered the market and the importance of safe and efficient sewer cleaning is paramount in modern operations. And now more than ever, our health is of the greatest importance. Sewer maintenance is essential to maintain public health. While the whole world is facing tough challenges now, we hope you are and stay safe and healthy.

Rioned is continually striving to move with the times and develop ever-better equipment. But our core business philosophy has not changed over the years – to develop good, sustainable relationships with customers, wherever they are in the world. We now have branches in many different European countries and work with more than 40 partners worldwide. Our aim is to help you professionally and quickly with expert advice, maintenance or repairs.

We also believe it is important that machinery is tailored to meet your requirements. We're proud to present the most comprehensive package of high-pressure sewer cleaning machines in the industry. All these machines have been developed to meet the European "Stage V" emission guidelines, which have been in force since the beginning of 2019. In this catalogue, you will find machines with petrol, diesel and PTO drives. Also take a look at the new eCityJet, the world's first fully-electric sewer cleaning machine, and its most environmentally friendly!

We're also proud of the brand new Victor spring machine, which can be used for a wide variety of domestic and light industrial jobs. Developed for cleaning (stand) pipes up to 160 mm, over a length of 60 meters, the new machine enables users to continuously adjust the rotation speed of the spring while maintaining torque, meaning unnecessary damage to pipes is a thing of the past.

We hope this catalogue helps you find the most suitable and future-proof machine for your business. Naturally, the service and sales teams at Rioned will be happy to help in any way they can. We'd love to hear from you.

Jan Pieters, CEO Rioned



# TABLE OF CONTENT

About Rioned	6 - 9
--------------	-------

## HIGH PRESSURE CLEANING

PORTABLES	
MiniJet	12
HD30	13
TRAILERS	
FlexJet	14 - 15
FlexJet+	14 - 15
MultiJet	16 - 17
SKID MOUNTED	
AquaJet	18 - 19
UrbanJet	20 - 21
CityJet	22 - 23
CityJet PTO	24 - 25
eCityJet	26 - 27
ProfiJet T4	28 - 29
Options high pressure	30 - 31

## JETTING/VACUUM CLEANING

UrbanCombi	50 - 51
UniCom	52 - 53
FlexCom	54 - 55
SkidCom	56 - 57
RioCom	58 - 59

## JETTING NOZZLES

Overview Jetting Nozzles	62 - 71
--------------------------	---------

## INSPECTION & DETECTION

RioSteam	74
RioTrack	74
SaniCam	74
FlexCam	75
MaxCam	75
FiberCam+	75

## MECHANICAL DRAIN CLEANING

HANDTOOLS	
Syphon Pump	35
Closet Auger	35
Type D	35
SPRING MACHINES	
HandMatic	36
FlexMatic+	37
AllRound+	38
Master	39
SECTIONAL MACHINES	
Victor	40 - 41
HIGH SPEED DRAIN CLEANERS	
RioFlex	42 - 43
RioFlex Mini	44 - 45
Accessories	46 - 47





# WE KEEP YOUR BUSINESS FLOWING

## RIONED SPECIALISES IN CLEANING MACHINES FOR SMALL AND MEDIUM SIZED DRAINS AND SEWERS

Since the start in 1956 Rioned has always been at the forefront of innovation. In this catalogue you will find a host of features and functions that enhance the user-friendliness and effectiveness of your high pressure jetting machine. Every machine that leaves our factory in Tilburg, the Netherlands is rigorously tested. Our modern facility measures and registers the pressure and flow of every machine and only if all criteria are met the machine is ready for shipment to the customer. Thousands of companies worldwide rely on their Rioned jetting machine, day in- day out.

### OUR PRODUCT RANGE CONSISTS OF:

- Mechanical drain cleaning
- High pressure cleaning
- Jetting/Vacuum cleaning
- Inspection and detection systems

By using only the very best components and state-of-the art technologies we can guarantee lower costs during the service life of your machine. Our jetters use less water, less fuel and are designed to work at the maximum. A host of standard fit smart features help you to work faster and more effectively.



# PRODUCT CONFIGURATIONS 2021



More and more European cities are starting to ban diesel with all non-road mobile machinery now needing to comply to stringent emission standards. The new European Stage V norm (Tier 4 in the US) regulates emissions produced by off-road mobile equipment with the goal to improve air quality. The new regulations are having a big impact on our industry.

Rioned is ready for the new era and provides a full range of products that comply with the latest standards; from the AquaJet with petrol engine up to our unique eCityJet, the first van-pack jetting machine with a zero-emission label.

## ZERO-EMISSIONS: ELECTRIC CITYJET

The eCityJet is the world's first fully electric, compact sewer cleaning machine for drains with a diameter of up to 350 mm. The new model includes all the features of the conventional CityJet van-pack but uniquely produces zero-emissions, therefore meets all current and future environmental standards and is ideal for contractors working in ultra-low emission zones.

## PETROL, DIESEL OR PTO?

Rioned offer a wide range of options to best suit the type of work and personal preferences of our customers. Many customers prefer the advantages of an auxiliary engine, which is better suited to re-chassis, over PTO solutions that are easy to service, refill and operate.

Air-cooled Honda petrol engines are the driving force of our AquaJet and FlexJet machines. They are lightweight and Stage-V compliant. FlexJet and AquaJet are best suited to handle emergency situations in smaller-sized drains.

The new generation of high-quality Kubota petrol engines are water-cooled (less noise, better cooling!), fuel-injected industrial engines with 3 (WG972) or 4 (WG1605) cylinders. Machines with these engines are ideally suited for work in domestic and commercial premises, but also to clear drains of fat, oil and tree roots.

Our diesel engines with less than 19 kW output are Stage V compliant. The UrbanJet equipped with this engine is a cost-effective solution for cleaning house connections and taking care of residential work efficiently.

The powerful V1505-CR T diesel (CityJet) and V2403-CR T diesel (ProfiJet Tier 4), are the ultimate solution in high-pressure drain jetting. With a flow rate of no less than 130 litres per minute, the ProfiJet is the most powerful (and complete) system in our range. The engine features a diesel particle filter and catalyst.

## PTO

We have developed a PTO system for the Mercedes Benz Sprinter that takes power from the engine of the van. Depending on the vehicle model, a P45 or P52 pump can be driven by the PTO. The Mercedes Benz Sprinter has a factory fitted PTO option and is the preferred vehicle for this type of jetter.



VAN PACKS				
	Drive	Engine capacity	Pump	
AquaJet	Honda petrol air cooled	15 kW / 20 HP	150 bar / 45 lpm	2200 psi / 13 gpm
	Honda petrol air cooled	18 kW / 24 HP	190 bar / 45 lpm	2800 psi / 10 gpm
	Honda petrol air cooled	18 kW / 24 HP	140 bar / 60 lpm	2000 psi / 13 gpm
	Honda petrol air cooled	18 kW / 24 HP	150 bar / 55 lpm	2200 psi / 12 gpm
UrbanJet	Kubota diesel	18,5 kW / 25 HP	200 bar / 45 lpm	3000 psi / 10 gpm
	Kubota diesel	18,5 kW / 25 HP	140 bar / 60 lpm	2000 psi / 13 gpm
	Kubota petrol industrial	24 kW / 32 HP	200 bar / 55 lpm	3000 psi / 12 gpm
	Kubota petrol industrial	24 kW / 32 HP	140 bar / 70 lpm	2000 psi / 15 gpm
CityJet	Kubota petrol industrial	24 kW / 32 HP	150 bar / 70 lpm	2200 psi / 15 gpm
	Kubota petrol industrial	24 kW / 32 HP	200 bar / 60 lpm	3000 psi / 13 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	320 bar / 46 lpm	4600 psi / 10 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	250 bar / 60 lpm	3600 psi / 13 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	160 bar / 85 lpm	2400 psi / 19 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	270 bar / 54 lpm	4000 psi / 12 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	200 bar / 72 lpm	3000 psi / 16 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	150 bar / 100 lpm	2250 psi / 22 gpm
	Kubota diesel common rail	33 kW / 44 HP	320 bar / 46 lpm	4600 psi / 10 gpm
	Kubota diesel common rail	33 kW / 44 HP	250 bar / 60 lpm	3600 psi / 13 gpm
	Kubota diesel common rail	33 kW / 44 HP	160 bar / 85 lpm	2400 psi / 19 gpm
	Kubota diesel common rail	33 kW / 44 HP	270 bar / 54 lpm	4000 psi / 12 gpm
	Kubota diesel common rail	33 kW / 44 HP	200 bar / 72 lpm	3000 psi / 16 gpm
	Kubota diesel common rail	33 kW / 44 HP	150 bar / 100 lpm	2250 psi / 22 gpm
	PTO*	32 kW / 43 HP	200 bar / 60 lpm	3000 psi / 13 gpm
	PTO*	32 kW / 43 HP	160 bar / 75 lpm	2400 psi / 17 gpm
eCityJet	Electric	25 kW / 22 HP	300 bar / 37 lpm	4300 psi / 8 gpm
	Electric	25 kW / 33 HP	200 bar / 60 lpm	3000 psi / 13 gpm
	Electric	25 kW / 33 HP	160 bar / 75 lpm	2400 psi / 17 gpm
ProfiJet	PTO*	32 kW / 43 HP	200 bar / 72 lpm	3000 psi / 16 gpm
	PTO*	32 kW / 43 HP	150 bar / 100 lpm	2250 psi / 22 gpm
ProfiJet T4	Kubota diesel common rail	49 kW / 65 HP	280 bar / 80 lpm	4100 psi / 18 gpm
	Kubota diesel common rail	49 kW / 65 HP	160 bar / 130 lpm	2300 psi / 29 gpm

\* Approximate power and capacity (MB Sprinter only)

NEW  
V1505-CR  
TURBO  
ENGINE



TRAILERS				
	Drive	Capacity	Pump	
FlexJet	Honda petrol	15 kW / 20 HP	150 bar / 45 lpm	2200 psi / 10 gpm
FlexJet+	Honda petrol	15 kW / 20 HP	150 bar / 45 lpm	2200 psi / 10 gpm
	Honda petrol	18 kW / 24 HP	150 bar / 55 lpm	2200 psi / 12 gpm
	Honda petrol	18 kW / 24 HP	140 bar / 60 lpm	2100 psi / 13 gpm
MultiJet	Kubota petrol industrial	42.5 kW / 57 HP	160 bar / 85 lpm	2400 psi / 19 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	200 bar / 72 lpm	3000 psi / 16 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	150 bar / 100 lpm	2250 psi / 22 gpm
	Kubota petrol industrial	42.5 kW / 57 HP	250 bar / 60 lpm	3600 psi / 13 gpm
	Kubota diesel	18.5 kW / 25 HP	140 bar / 60 lpm	2100 psi / 13 gpm
	Kubota diesel	18.5 kW / 25 HP	200 bar / 45 lpm	3000 psi / 10 gpm



STANDARD OUTFIT									
	AquaJet	UrbanJet	CityJet	eCityJet	ProfiJet	ProfiJet T4	FlexJet	FlexJet+	MultiJet
eControl (+)	Optional	Standard (+)	Standard (+)	Standard (+)	Standard (+)	Standard (+)	Optional	Optional	Standard (+)
Riomote	Optional 5 channel	Optional 5 or 7 channel	Optional 7 channel	Optional 7 channel	Optional 7 channel	Optional 7 channel	Optional 5 channel	Optional 5 channel	Optional 7 channel
Hydraulic drive reel	Optional at 24HP model	Standard	Standard	Electric drive reel	Standard	Standard	-	Optional	Standard
Mechanical free wheel	Optional	Optional	Standard	Standard	Standard	Standard	-	Optional	Optional
Run dry protection	Optional	Standard	Standard	Standard	Standard	Standard	Optional	Optional	Standard
Hosemeter counter	-	-	Optional	Optional	Optional	Standard	-	-	-
Accessories	Nozzles, spraygun	Nozzles	Nozzles, spraygun	Nozzles, spraygun	Nozzles, spraygun	Nozzles	Nozzles, spraygun	Nozzles, spraygun	Nozzles, spraygun

# SERVICE, RENTAL AND FINANCE

## RIOHIRE: EQUIPMENT RENTALS

Rioned's operation-ready rental equipment and vehicles (UK only) are a popular option for many contractors, particularly when used to fulfil interim contracts or add additional resource to their fleet. Standalone jetters, van-pack vehicles and jet/vac combination units can be supplied with a simple hire agreement on long- and short-term rental contracts with customisations to suit client requirements.

The standard van-pack hire vehicle is a long-wheelbase Transit 350 with exterior chevron signage for highways compliance. The interior conversion includes the installation of a dividing bulkhead, waterproof spray lining, LED lighting, washbasins, shelving and a night heater to provide frost-protection for the jetter and to heat a storage cupboard for drying wet overalls. (Only applicable in the UK)



Hiring also means that companies can try our best-in-class equipment before they buy, taking advantage of full maintenance coverage, which ensures no unforeseen costs over the length of the contract.

**The customer-first approach offers a ready-made solution with unique features, while still providing good value for money over short- or long-term agreements.**

## EQUIPMENT SERVICING AND REPAIR

Annual maintenance is essential in preventing equipment malfunctions and the key to improving the efficiency and operational life of your machine. We offer a range of annual and periodic servicing packages to help customers spread the cost of maintenance. Our global network of service agents and fully-equipped service vehicles provide mobile servicing and reactive maintenance. Rioned service vehicles carry a full complement of spare parts and accessories, with the service teams equipped to carry out most standard repairs in a single call-out.



Rioned is committed to providing the highest quality of after-sales service, providing assurance for all our customers that they are looked after in the right way. That includes the quick distribution of the parts and accessories via our global network.

**All servicing and repair work is undertaken by Rioned trained and approved technicians.**

#### EQUIPMENT AND VEHICLE FINANCE AND LEASING

We work closely with leading providers to offer finance and leasing packages that are tailored to suit different requirements and financial circumstances. Access to low-rate solutions helps customers manage ongoing costs and maintain cash-flow in their businesses.



Many of our customers choose combined jetter and vehicle finance, which is generally viewed as a hard-asset purchase and therefore attracts lower monthly rates. Alongside the supply of the drain cleaning equipment and the vehicle, we often also bundle ancillary equipment, vehicle conversions and the ongoing service and repair costs into finance packages.

Customers can also opt for balloon payment terms, which again reduce monthly outgoings and provides the opportunity to trade in old equipment against new at the end of the contract.

**By choosing a single-source solution, many contractors have discovered a hassle-free and cost-effective way to satisfy their complete jetting requirements.**

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## FROM IDEA TO WORLD FIRST



Marc Soethout, chief new product development at Rioned

Innovation, sustainability and the job satisfaction of our customers. Those are my greatest drives, says Marc Soethout, chief new product development at Rioned. Marc has spent the last few years working on Rioned's most prestigious project: the development of the eCityJet. An electric CityJet that meets the most stringent emission requirements yet in no way compromises quality or job satisfaction.

The project was a big challenge, Marc says. Many of the technical solutions we came up with for the emissions were just not able to meet our standards. Of course, we did set the bar high for ourselves. By remaining critical and not making any concessions we have succeeded in creating this innovative product. A world first I am proud of.



A man in a high-visibility jacket and dark trousers is using a high-pressure water jet to clean a brick house and a hedge. The scene is set in front of a two-story brick house with a tiled roof and several windows. A large, leafy hedge runs along the front of the property. The man is walking on a paved driveway, holding a long, flexible hose that extends across the ground. The entire image has a blue color cast.

# High pressure cleaning

## HIGH PRESSURE MACHINES

Our portfolio consists of a wide range of machines to clean and unblock sewers and drains quickly & effectively. By using the best components and modern technology we can guarantee lower operational cost and the unrivalled longevity of our machines. Our jetters use less water, less fuel and are designed to work at the maximum. Standard fit smart features help you to work faster and more effectively.

## PORTABLE JETTERS

Portable machines for professional cleaning of small diameter pipework. Powered by either a petrol engine or silent electric motor.

## TRAILER JETTERS

Versatile trailer units available un-braked with a max capacity of 750 kgs or braked systems with the power to complete the toughest of jobs.

## VAN PACKS

A range of skid mounted machines for the professional user. From the compact AquaJet, suitable for small vehicles up to our top of the range Profi Jet for the most demanding of applications.



## MiniJet



25 – 100 mm



Engine and pump 30 kgs  
Hose reel 26 kgs

## HD30 130 bar / 30 lpm



40 – 200 mm



90 kgs

## HD30 100 bar / 40 lpm



40 – 200 mm



100 kgs

STAGE V



MiniJet

## HIGH PRESSURE CLEANING

# MINIJET AND HD30

## PROFESSIONAL CLEANING OF DRAINS UP TO 200 MM

### MINIJET

The MiniJet is a high pressure jetting machine for residential- and light commercial use. Equipped with a silent and powerful electric motor and professional pump it is ideal for cleaning drains from 25 - 100 mm.

The MiniJet is easy to transport on stairs or in the elevator. The motor/pump unit can be easily removed and used independently (with a NW 5 hose) from the hose reel meaning you can leave the hose reel section behind if the workspace is limited.





TECHNICAL SPECIFICATIONS						
	MiniJet 110 bar / 10 lpm		HD30 130 bar / 30 lpm		HD30 100 bar / 40 lpm	
Operating range	25-100 mm		40-200 mm		40-200 mm	
Engine	Electric (1.8 kW / 230V - 50Hz)		Honda petrol (8 kW)		Honda petrol (8 kW)	
Pump Rioned/Speck	110 bar / 10 lpm	1600 psi / 2,2 gpm	130 bar / 30 lpm	1900 psi / 6,5 gpm	100 bar / 40 lpm	1450 psi / 8,8 gpm
HP hose	20 metres NW 8 1/4"coupling 10 metres NW 5 hose 1/8"coupling		40 metres NW 8		40 metres NW 10	
Weight	Engine and pump 30 kgs Hose reel 26 kgs		90 kgs		100 kgs	
Nozzles	2 nozzles 1/4" (1 open, 1 blind) 1 nozzle 1/8"(open)		2 nozzles 1/4" (1 open, 1 blind)		2 nozzles 1/2" (1 open, 1 blind)	
Accessories	High pressure gun with 600 mm lance suction hose with filter		High pressure gun with 600 mm lance suction hose with filter		High pressure gun with 600 mm lance suction hose with filter	

### HD30

The HD30 mobile high pressure jetting machine is fitted with a petrol engine that guarantees optimal cleaning of small drains and sewers up to 200 mm.

This machine is particularly suitable for jetting and cleaning of house connections, roof water drains, sewers blocked with grease and industrial sewers. It is also very effective at cleaning street furniture and terraces.

The HD30 can be connected directly to a water supply therefore eliminating the need for a separate water tank. The HD30 is supplied with two nozzles and a high pressure gun with lance.



HD30



#### FlexJet Basic



Max 300 mm



As from 370 kgs



400 litres

#### FlexJet Standard



Max 300 mm



As from 390 kgs



400 litres

#### FlexJet+



Max 350 mm



As from 430 kgs



550 litres

STAGE V



Ergonomic working height

## HIGH PRESSURE CLEANING

# FLEXJET AND FLEXJET+

## SETTING A NEW STANDARD

The FlexJet and FlexJet+ are super compact trailers with a powerful pump suitable for professional unblocking and cleaning of drains and sewers up to 300 mm (FlexJet) or 350 (FlexJet+) mm. The trailer is suitable for professional cleaning companies, councils, building contractors and water authorities.

### INTELLIGENT DESIGN

Due to the streamlined and modern design the FlexJet has a low air resistance. Thanks to the use of high strength steel and synthetic material the total weight remains low, making it possible to carry more water.

The light weight FlexJet can be transported by practically all types of vehicle and on a standard driving license. The FlexJet has excellent road holding and maneuvering abilities, thanks to its compact size. The Flexjet+ is a braked trailer. The hose reels are mounted at the perfect working height for ultimate operational comfort. The operator has full control of the FlexJet at the rear. The FlexJet has an integrated 400 litres water tank with a large tool box and lockable cover. The FlexJet+ holds 550 litres of water.

### STABLE BUT FLEXIBLE

The innovative construction of the water tank gives a stable road holding both when empty and full by preventing sway during driving. The trailer is very user friendly and is available in various pressure and flow capacities. As the name already indicates this machine can be used flexibly and is well suited to drainage and surface cleaning.

The motor-pump compartment of the FlexJet+ is enclosed and supplied with flame retardant insulation material along with a special cooling system. The FlexJet+ is heavily noise damped. The cover can remain closed during operation and during transport meaning the machine remains free from road dirt and salt.



TECHNICAL SPECIFICATIONS				
	FlexJet		FlexJet+	
Operating range	Max 300 mm		Max 350 mm	
Version	Unbraked, with optional cover		Braked, with cover	
Engine	Honda petrol (15 kW / 20 HP)		Honda petrol (15 kW / 20 HP) Honda petrol (18 kW / 20 HP)	
Pump Rioned/Speck	150 bar / 45 lpm	2200 psi / 10 gpm	Honda petrol (15 kW / 20 HP)	
			140 bar / 60 lpm	2100 psi / 13 gpm
			150 bar / 45 lpm	2200 psi / 10 gpm
			150 bar / 55 lpm	2200 psi / 12 gpm
			Honda petrol (18 kW / 24 HP)	
			150 bar / 45 lpm	2200 psi / 10 gpm
			150 bar / 55 lpm	2200 psi / 12 gpm
Pressure regulator	Type Speck with automatic bypass		Type Speck with automatic bypass	
Water tank	400 litres		550 litres	
Fuel tank	15 litres		15 litres	
Filling reel	35 metres NW 19		35 metres NW 19	
HP hose	50 metres NW 13 (1/2")		60 metres NW 13 (1/2")	
HP hose reel	Manual drive		Manual drive	
Weight	As from 370 kgs		As from 430 kgs	
Dimensions (LxWxH)	2815 x 1375 x 1320 mm		3070 x 1375 x 1320 mm	
Nozzles	2 x 1/2" (1 open, 1 blind)		2 x 1/2" (1 open, 1 blind)	
Accessories	Spraygun and lance		Spraygun and lance	
Color	White (RAL 9001), other colors optionally available			
OPTIONS				
Remote control	RioMote 5 channel radio remote control (gas regulation, pump on/off, emergency stop)			
RioPulse Pulsator	Pump adjusment to send water in pulses through the hose			
Extra hose length	60 or 80 metres NW 13 (1/2") MaxFlow hose instead of 50 metres			
Hydraulic drive (+)	Hydraulically driven HP reel			
2nd high pressure hose reel (+)	Filling reel converted to a second HP hose reel for work with small diameter hose (FlexJet+ only)			
Mechanic freewheel HP hose reel (+)	RioFree mechanical freewheel at the hose reel for coiling off without any resistance			
Hydrant connection	Supply line with hydrant connection for fast filling of the water tank			
Light metal wheels	Light metal wheel rims instead of standard wheel rims			



- Compact and light weight
- Modern design, easy to use
- Integrated water tanks
- Several configurations available
- For drains and sewers up to 350 mm



Max 450 mm



As from 980 kgs



800 litres



## HIGH PRESSURE CLEANING

# MULTIJET

## THE HEAVY-DUTY, HIGH CAPACITY JETTING TRAILER

The Rioned MultiJet is a high pressure jetting trailer designed and built with the latest technology and is suitable for unblocking and cleaning of drains and sewers up to 450 mm. The powerful MultiJet is the quietest trailer mounted jetting machine in its class thanks to the water cooled diesel or petrol engine, special exhaust system and enclosed body.

### MAXIMUM VISIBILITY

The MultiJet has two integrated 400 litres water tanks that are connected. The unique design and low center of gravity ensure excellent driving characteristics and road stability. When pivoted out, the hose reel remains within the machine body minimizing obstructions into the road thus preventing accidents. The placement of the lights guarantee maximum visibility and safety.

### FRAME AND DESIGN

The new heavy duty tow bar and chassis are built to withstand many years of intensive use, the robust construction of the pivoting hose reel mechanism ensures trouble-free operation for the life of the machine. As with all premium Rioned machines, safety systems are fitted to maximize the longevity of the MultiJet's major components.

The aerodynamic design of the MultiJet contributes to ensuring lower fuel consumption of the towing vehicle. Noise levels are reduced to an absolute minimum by the use of a heat exchanger system to cool the engine. Two integrated and lockable tool compartments provide ample storage space for tools and other equipment.

### NEW PIVOTING HOSE REEL CONSTRUCTION

The pivoting hose reel now pivots to over 90° + 180° and further from the rear of the machine for optimum working comfort under all circumstances. The hose reels are protected by the cover of the machine, further ensuring trouble-free working during periods of frost.

The new high pressure jetting hose fitted to the MultiJet is not only the lightest hose of its kind on the market it also ensures minimum pressure loss thanks to the smooth inner surface and widened inner diameter. Due to the new hose the effective output of the new MultiJet is further increased delivering more working pressure at the nozzle. For single man operation a radio remote control option is available along with a spray beam to clear road surfaces from oil spills and dirt.



800 litres water on board



90° + 180° Pivoting hose reel



TECHNICAL SPECIFICATIONS		
Operating range	Max 450 mm	
Version	Braked, noise reducing cover	
Engine	Kubota petrol WG1605 (33,5 kW / 45 HP) or Kubota diesel D1105 (18,5 kW / 25 HP)	
Pump Rioned/Speck	Kubota petrol WG1605	
	160 bar / 85 lpm	2400 psi / 19 gpm
	200 bar / 72 lpm	3000 psi / 16 gpm
	150 bar / 100 lpm	2250 psi / 22 gpm
	Kubota diesel D1105	
	140 bar / 60 lpm	2100 psi / 13 gp
	200 bar / 45 lpm	3000 psi / 10 gpm
Pressure regulator	Type Speck with automatic bypass	
Water tank	800 litres (2x 400 litres)	
Fuel tank	30 litres	
Filling reel	50 metres NW 19	
HP hose	80 metres NW 13 (1/2"), NW 16 or NW 19 (dependent on configuration)	
HP hose reel	Hydraulic drive, 90° + 180° pivoting	
Weight	As from 980 kgs (max 1900 kgs)	
Dimensions (LxWxH)	3640 x 1840 x 1500 mm	
Nozzles	2 x 1/2" (1 open, 1 blind)	
Accessories	Spraygun and lance	
Color	Yellow (RAL 1032), blue (RAL 5010) or white (RAL 9010)	

OPTIONS	
Remote control	RioMote 7 channel radio remote control (engine start/stop, gas regulation, pump on/off, emergency stop)
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger
Ventury tank filling system	Suction device to fill up the tank with water from natural sources
2nd high pressure hose reel	Filling reel converted to a second HP hose reel for work with small diameter hose
Extra hose length	Extra hose lengths available
Mechanic freewheel HP hose reel	RioFree mechanical freewheel at the hose reel for coiling off without any resistance
Hydrant connection	Supply line with hydrant connection for fast filling of the water tank
Spraybeam	Spraybeam with rotating nozzles to clear streets from oil spills
Light metal wheels	Light metal wheel rims instead of standard wheel rims



- Robust and durable
- Designed for tough jobs
- Patented 90° + 180° pivoting high pressure hose reel
- Very stable road holding
- Low noise level



Large storage compartments



eControl+ control panel



Max 300 mm



As from 280 kgs



400 litres



## HIGH PRESSURE CLEANING

# AQUAJET

## SMALL SIZE & BIG PERFORMANCE, SUITABLE FOR ALL COMMERCIAL VEHICLES

The AquaJet is suitable for unblocking and cleaning of drains and sewers up to 300 mm. Thanks to its very compact design and low weight it fits almost any lightweight van and pick-up such as Toyota Hiace, Mercedes Benz Vito, Volkswagen Transporter, Caddy or Peugeot Partner.

The AquaJet leaves maximum internal loading space for storage of tools and equipment without exceeding the maximum payload of the van. The machine is also easily installed.

### VALUE FOR MONEY

The choice of various engines, pumps and water tanks enables Rioned to build the machine to your specification.

The Rioned AquaJet is designed with maintenance in mind, the removable cover allows easy access to the engine and pump for servicing.

### GREAT ERGONOMICS

The steel hose reels and control panel are mounted at the optimum working height, giving you ultimate operation comfort.

The AquaJet is available in various configurations and can be enhanced with many options such as RioMote radio remote control, RioPulse pulsator system (jump-jet) and hydraulic hose reel drive.





- Very compact construction
- Low weight
- Choice of different engines, pumps and water tank configurations
- Maintenance friendly
- Fits into almost any vehicle



TECHNICAL SPECIFICATIONS	
Operating range	Max 300 mm
Engine	Honda petrol air cooled (15 kw / 20 HP) or Honda petrol air cooled (18 kw / 24 HP)
Pump Rioned/Speck	Honda petrol air cooled (15 kw / 20 HP)
	130 bar / 60 lpm      1900 psi / 13 gpm
	150 bar / 45 lpm      2200 psi / 10 gpm
	Honda petrol air cooled (18 kw / 24 HP)
	150 bar / 55 lpm      2200 psi / 12 gpm
	190 bar / 45 lpm      2800 psi / 10 gpm
Pressure regulator	Type Speck with automatic bypass
Water tank	400 litres
Fuel tank	15 litres
Filling reel	35 metres NW 19
HP hose	60 metres NW 13 (1/2")
HP hose reel	Fixed, manual operation
Weight	As from 280 kgs
Dimensions (LxWxH)	1100 x 950 x 1095 mm
Nozzles	2 x 1/2" (1 open, 1 blind)
Accessories	Spraygun and lance
Color	Blue cover, black metal frame
OPTIONS	
Remote control	RioMote 5 channel radio remote control (gas regulation, pump on/off, emergency stop)
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose
Pump protection	Run dry protection with overrun possibility
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit
Extra water tanks	2 x 300 litres water tanks instead of 1 x 400 litres
	2 x 400 litres water tanks instead of 1 x 400 litres
Extra hose length	80 metres NW 13 (1/2") MaxFlow hose instead of 60 metres
Ventury tank filling system	Suction device to fill up the tank with water from natural sources
Hydraulic drive	Hydraulically driven HP reel
Mechanic freewheel HP hose reel	RioFree mechanical freewheel at the hose reel for coiling off without any resistance
Hydrant connection	Supply line with hydrant connection for fast filling of the water tank



Max 300 mm



As from 440 kgs



600 litres



## HIGH PRESSURE CLEANING

# URBANJET

## TAKING DRAIN CLEARANCE TO THE NEXT LEVEL

### LIGHTWEIGHT

The new light weight UrbanJet is designed to fit most compact 3.5T vans such as the VW Transporter, Ford Transit, Vauxhall Movano, MB Vito or similar sized vans. The new UrbanJet is ideally suited for unblocking of house connections and work in domestic and light commercial areas. The UrbanJet is also available with an industrial, water cooled diesel or petrol engine to service pipes up to 300 mm.

### EVERYTHING YOU NEED

The UrbanJet is supplied as a complete package including hydraulically driven high pressure hose reel with 60 metres MaxFlow lightweight jetting hose and filling reel with 35 metres of NW19 hose. The optionally included 5 or 7 channel radio remote control allows single man operation and allows the user to control the pump (on/off) and engine revs and emergency stop.

The run dry function for low water pump protection has an override facility allowing the operator to use the hydraulic system to retrieve the hose from the drain. The UrbanJet is available with several different tank configurations for optimum flexibility.

### eCONTROL+ INTERFACE

Despite its affordable price the new UrbanJet is fitted with our award winning eControl+ user interface with LCD display. It includes many useful features and provides a full machine status at a glance. The eControl+ system also provides the user with machine error information for quick fault diagnostics.







- Lightweight to fit most popular and compact 3.5t + vehicles
- eControl+ control panel with machine status indicators
- Hydraulically driven high pressure hose reel as standard
- Optionally equipped with radio remote control for single man operation



RioMote radio remote control optionally available



Compact built, leaving space for camera and tools

TECHNICAL SPECIFICATIONS	
Operating range	Max 300 mm
Engine	Kubota diesel D1105 (18.5 kW/25 HP) or Kubota petrol industrial WG972 (24 kW/32 HP)
Pump Rioned/Speck	<div> <div>Kubota diesel D1105</div> <div> 200 bar / 45 lpm    3000 psi / 10 gpm  140 bar / 60 lpm    2000 psi / 13 gpm </div> </div> <div> <div>Kubota petrol industrial WG972</div> <div> 200 bar / 55 lpm    3000 psi / 12 gpm  140 bar / 70 lpm    2000 psi / 15 gpm </div> </div>
Pump protection	Run dry protection with overrun possibility
Pressure regulator	Type Speck with automatic bypass
Water tank	2 x 300 litres (600 litres total)
Fuel tank	30 litres
Filling reel	35 metres filling hose
HP hose	60 metres NW13 (1/2")
HP hose reel	Fixed hose reel, hydraulically operated
Control	Rioned eControl+ with LCD display, warning lights, hour counter and service interval warning
Weight	As from 440 kgs
Dimensions (LxWxH)	1305 x 1240 x 1195 mm
Nozzles	2 x 1/2" (1 open, 1 blind)
Color	Blue covers, black metal frame
OPTIONS	
Remote control	RioMote 5 or 7 channel radio remote control (gas regulation, pump on/off, emergency stop)
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger
Extra water tanks	2x 400 or 4x 300 litres water tanks instead of 2 x 300 litres
Extra hose length	80 metres NW 13 (1/2") MaxFlow hose instead of 60 metres
Ventury tank filling system	Suction device to fill up the tank with water from natural sources
Mechanic freewheel HP hose reel	RioFree mechanical freewheel at the hose reel for coiling off without any resistance
Hydrant connection	Supply line with hydrant connection for fast filling of the water tank
Accessories	Spraygun and lance



NEW  
V1505-CR  
TURBO  
ENGINE



Max 450 mm



As from 530 kgs



600 litres



## HIGH PRESSURE CLEANING

# CITYJET

## EXCEEDING ALL YOUR EXPECTATIONS IN DESIGN, PERFORMANCE, USER FRIENDLINESS AND RELIABILITY

The Rioned CityJet sets the standard in design, performance and reliability. It is the most compact machine in its class and thousands of users worldwide rely on their CityJet day-in day-out. The all new CityJet hosts a range of innovative new features to enhance the machine functionality while offering superior ergonomics.

The compact design and low weight maximizes the carrying capacity of the vehicle.

### MORE EFFECTIVE

The high pressure hose reel now pivots through 180 degrees for optimum working conditions in all circumstances. The new hose reel has been widened to accommodate up to 140 metres of 1/2" high pressure hose or 120 metres of 5/8" hose. And the new electric locking mechanism on the hose reel is a major improvement in user friendliness and safety.



RioFree mechanical freewheel at the hose reel for coiling off without any resistance

The RioFree freewheel system ensures that the hose reel can be coiled off without any friction of the hydraulics, this feature significantly reduces the effort required to operate the hose reel. The new high pressure jetting hose fitted to the CityJet is not only the lightest hose in its class. It also ensures minimum pressure loss thanks to the smooth inner surface and widened inner core. This also results in an increase of 12% effective working pressure at the nozzle.

### USER FRIENDLY

The CityJet fits most popular vehicles such as the Mercedes-Benz Vito, Volkswagen Crafter and Ford Transit. The modern, newly designed covers protect the user from rotating parts and reduce the noise levels of the machine to a minimum. The covers are easily removed for quick access to the engine and pump when servicing is required. With an easy fill fuel tank and special forklift lifting provision the new CityJet is extremely user friendly.

### DRIVES

The CityJet can be supplied with petrol or even an electric engine. A PTO (Power Take Off) version to mount in a Mercedes Benz Sprinter is also available. All systems host a range of innovative features to maximize performance and user friendliness. The CityJet Petrol e.g. has a patent pending system to cool the exhaust of the machine.



Wide 180° pivoting hose reel for max. 140 metres of 1/2" hose



- 180° pivoting hose reel
- eControl+ control panel
- High performance
- Light-weight
- Large capacity hose reel for up to 140 metres hp hose
- Electric hose reel locking mechanism



#### TECHNICAL SPECIFICATIONS

Operating range	Max 450 mm	
Engine	Kubota petrol industrial WG972 (23 kW / 30 HP), Kubota petrol WG1605 (33,5 kW / 45 HP) or Kubota diesel common rail turbo V1505-CR T (33 kW / 44 HP)	
Pump Rioned/SpecK	Kubota petrol industrial WG972	
	150 bar / 70 lpm	2200 psi / 15 gpm
	200 bar / 60 lpm	3000 psi / 13 gpm
	Kubota petrol industrial WG1605	
	320 bar / 46 lpm	4600 psi / 10 gpm
	250 bar / 60 lpm	3600 psi / 13 gpm
	160 bar / 85 lpm	2400 psi / 19 gpm
	270 bar / 54 lpm	4000 psi / 12 gpm
	200 bar / 72 lpm	3000 psi / 16 gpm
	150 bar / 100 lpm	2250 psi / 22 gpm
	Kubota diesel common rail turbo V1505-CR T	
	320 bar / 46 lpm	4600 psi / 10 gpm
250 bar / 60 lpm	3600 psi / 13 gpm	
160 bar / 85 lpm	2400 psi / 19 gpm	
270 bar / 54 lpm	4000 psi / 12 gpm	
200 bar / 72 lpm	3000 psi / 16 gpm	
150 bar / 100 lpm	2250 psi / 22 gpm	
Pump protection	Run dry protection with overrun possibility	
Pressure regulator	Type Speck with automatic bypass	
Water tank	600 litres (2 x 300 litres)	
Fuel tank	30 litres	
Filling reel	50 metres NW 19	
Hydrant connection on the tank	Supply line with hydrant connection for fast filling of the water tank	
HP hose	80 metres NW 13 (1/2") or NW 16 (dependent on configuration)	
HP hose reel	Hydraulic drive with RioFree freewheel, 180° pivoting	
Weight	As from 530 kgs	
Dimensions (LxWxH)	1335 x 1240 x 1195 mm	
Nozzles	2 x 1/2" (1 open, 1 blind)	
Accessories	Spraygun and lance	
Color	Blue hose reel, black frame	

#### OPTIONS

Remote control	RioMote 7 channel radio remote control (engine start/stop, gas regulation, pump on/off, emergency stop)
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger
Extra water tanks	2x 400 or 4x 300 litres water tanks instead of 2 x 300 litres
Extra hose length	Extra hose lengths available
Ventury tank filling system	Suction device to fill up the tank with water from natural sources
2nd high pressure hose reel	Filling reel converted to a second HP hose reel for work with small diameter hose
Electric water level control	Automatic system to open and close the filling line of your machine if the water has reached its minimum or maximum level in the tank
RioMeter hose counter	RioMeter hose length counter to display the length of the hose that is feeded in the drain
Riomote hose reel operation	Coiling on- and off via the radio remote control



Max 350 mm



As from 500 kgs



600 litres



## HIGH PRESSURE CLEANING

# CITYJET PTO

## POWERED BY MB SPRINTER

### DRIVE

The CityJet PTO (Power Take-Off) is driven by the engine of the vehicle in which it is placed. A sophisticated hydraulic system reduces the power of the vehicle-driven shaft to allow the high-pressure pump to do its job, so there is no longer any need for a separate combustion engine or other motor. Installed in a new van, this drive meets all legal environmental requirements.

### VEHICLES

A CityJet PTO can be built into a Mercedes Benz Sprinter (3.5 or 5 tonnes) that is equipped with the Mercedes PTO factory options. The drivetrain of this van includes a transfer case that provides direct power.

### EQUIPMENT

The CityJet PTO is equipped with Riomote control and eControl+ operating panel. The machine is supplied as standard with two 300-litre water tanks, a 180° pivoting reel with mechanical freewheel, 80-metre MaxFlow HP hoses and a filling reel with 50 metres of NW19 hose.

### BENEFITS

A CityJet with PTO drive in a EURO-6 van meets all environmental regulations. The total weight is lower than that of a machine with a combustion engine. The noise level is lower than that of a machine with a combustion engine, which is a great advantage when working at night, for example.







- Designed for MB Sprinter
- Low maintenance
- Low noise



#### TECHNICAL SPECIFICATIONS

Operating range	Up to 350 mm diameter
Drive	Driven by vehicle engine
Pump Rioned/ Speck	Various capacities, depending on the power available from the vehicle
Pump protection	Dry-running protection with bypass
Pressure regulator	Type Speck with automatic bypass function
Water tank	600 litres (2x 300 litres)
Filling reel	50 metres NW19
Permanently attached filling hose	Permanently attached filling hose with hydrant connection for quick filling of the tank
HP hose	80 metres NW 13 (1/2") or 80 metres NW 16
HP reel	180° swivelling, hydraulic and equipped with RioFree freewheel
Weight	As from 500 kgs
Dimensions	1335 x 1240 x 1195 mm
Nozzles	2x 1/2" (1 open, 1 blind)
Accessories	Spray gun with lance
Accessories	Spray gun with lance
Color	Blue/black

#### OPTIONS

Remote control	RioMote 7 channel radio remote control (engine start/stop, gas regulation, pump on/off, emergency stop)
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger
Extra water tanks	4 x 300 litres water tanks instead of 2 x 300 litres
Extra hose lengths	Extra hose lengths available
Ventury tank filling system	Suction device to fill up the tank with water from natural sources
2nd high pressure hose reel	Filling reel converted to a second HP hose reel for work with small diameter hose
Electric water level control	Automatic system to open and close the filling line of your machine if the water has reached its minimum or maximum level in the tank
RioMeter hose counter	RioMeter hose length counter to display the length of the hose that is feeded in the drain
Riomote hose reel operation	Coiling on- and off via the radio remote control



Max 350 mm



As from 690 kgs



600 litres



## HIGH PRESSURE CLEANING

# eCITYJET

## THE FUTURE OF SEWER CLEANING BEGINS TODAY

Take a look at the world's first fully electric high pressure sewer cleaning machine for pipes with a diameter of up to 350 mm. The eCityJet has all the features of the conventional CityJet and meets all current and future environmental standards.

### ZERO EMISSION

The fully electric CityJet uses state-of-the-art technology, and features a strong electric motor powered by an extremely efficient battery pack. This means the machine produces zero emission, which makes the eCityJet ideally suited for use in city centres where strict emission requirements apply and in areas that are completely or partially enclosed. The eCityJet has all the features of a conventional diesel-driven machine and is hardly heavier. The empty machine weighs approximately 690 kg. The machine is also barely larger than a diesel-powered CityJet, making it suitable for most vans (such as a Mercedes Vito or Sprinter or a Ford Transit).

### PERFORMANCE

The performance of the eCityJet is in no way inferior to that of diesel-driven machines. The machine is ideally suited for unblocking pipes up to 350 mm. With fully charged batteries, and an average working day, you can work with the eCityJet a full day without charging in between jobs.

### BATTERY PACK

The eCityJet is equipped with six 5 kWh batteries. The batteries are charged using regular mains power from an ordinary wall socket. The charging time for six batteries is approximately eight hours. You can even top up the charge during the day for longer flushing.

### COMPLETE

The eCityJet is supplied with eControl+ operating panel. Winding in and out is done electrically. No hydraulic fluid is used, which reduces environmental impact. The machine is supplied as standard with two 300-litre water tanks, a 135° pivoting reel with mechanical freewheel, 80-metre MaxFlow HP hoses and a filling reel with 50 metres of NW19 hose.



Dutch company Van der Velden has tested the eCityJet:

"We have extensively tested the electric CityJet in the centre of Amsterdam and were able to work with the machine for two days without having to recharge the batteries in between."



- Zero emission
- Ideal for work in ultra-low emission zones and indoor use
- Powered by an extremely efficient battery pack

#### CLEAN & GREEN SOLUTION

With the eCityJet you are ready for the future. In the coming years there will be more and more emphasis on limiting NOx, particulate and CO2 emissions. The eCityJet already gives you a considerable advantage when it comes to customers who prefer to work in an environmentally friendly way. An additional advantage is that the machine is also considerably quieter than one with a diesel engine, which is an important factor when working at night, for example. The machines are easy to maintain, which in the long run will certainly result in considerable savings. Making the switch now will allow you to stand out in the market.



#### TECHNICAL SPECIFICATIONS

Operating range	Up to 350 mm diameter	
Motor	Electric motor	
Battery pack	30 kWh battery pack	
Pump Rioned/Speck	160 bar / 75 lpm 200 bar / 60 lpm 300 bar / 37 lpm	2400 psi / 17 gpm 3000 psi 13 gpm 4350 psi / 9 gpm
Pump protection	Run dry protection with overrun possibility	
Pressure regulation	Type Speck with automatic bypass function	
Water tank	600 litres (2x 300 litres)	
Filling reel	50 metres NW19	
Permanently attached filling hose	Permanent attached filling hose with hydrant connection for quick filling of the tank	
HP hose	80 metres NW 13 (1 1/2") or NW 16 (5/8") hose	
HP reel	180° swiveling, electrically controlled and equipped with RioFree freewheel	
Weight	690 kgs	
Dimensions (lwxwxh)	1615 x 1240 x 1195 mm	
Accessories	Spray gun with lance	
Nozzles	2x 1/2" (1 open, 1 blind)	
Color	Blue/black	

#### OPTIONS

Remote control	RioMote 7 channel radio remote control (engine start/stop, gas regulation, pump on/off, emergency stop)
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger
Extra hose length	Extra hose lengths available
Ventury tank filling system	Suction device to fill up the tank with water from natural sources
2nd high pressure hose reel	Filling reel converted to a second HP hose reel for work with small diameter hose
Electric water level control	Automatic system to open and close the filling line of your machine if the water has reached its minimum or maximum level in the tank
RioMeter hose counter	RioMeter hose length counter to display the length of the hose that is feeded in the drain
Riomote hose reel operation	Coiling on- and off via the radio remote control



Max 600 mm (V2403-CR T)



As from 800 kgs



600/800 litres



## HIGH PRESSURE CLEANING

# PROFIJET T4

## THE MOST POWERFUL AND GREEN MACHINES

### TOP OF THE RANGE

The ProfiJet T4 is our top of the range diesel operated model. It is designed to work long and hard. It offers unrivalled user-friendliness and hosts a wealth of innovative features to make your work easier and more effective. The award winning eControl+ user interface is fitted as standard, it provides you with useful features and gives you a full status update of your system at a glance. The optionally available electric water level control system opens and closes the inlet valve of the tank automatically at the minimum or maximum water level.

A hose meter counter is fitted as standard and indicates the length of jetting hose deployed.

### FUTURE PROOF ENGINE

Tier 4 (US) and Stage V (Europe) is legislation that requires industrial diesel engines to reduce the effects on the environment in relation to exhaust emissions. These regulations require the reduction of particulate matter (PM) and nitrogen oxides (NOx). All new non-road diesel engines have to comply with these new regulations. The new ProfiJet T4 stage V is powered by a fuel efficient Kubota V2403-CR turbo engine with built in catalyst and Diesel Particle Filter.

### POWERFUL YET COMPACT PACKAGE

The ProfiJet T4 V2403-CR T with 65 horse power allows you to take on even the toughest jobs with 280 bar / 80 lpm. The high flow model delivers 130 lpm with 160 bar pressure. The light weight frame is made out of extra strong aluminium and it is designed to fit most commercial vehicles. Two separate water tanks are inter connected to optimize road stability and driving comfort.



Tier 4/Stage V ready engine with built-in diesel particle filter and catalyst



Pivoting and rotating hose reel





- Fuel efficient Tier 4/Stage V Kubota engine complying to current and future emission regulations
- Unique pivoting and swivelling high pressure hose reel
- eControl+ user interface with integrated hose meter counter



#### TECHNICAL SPECIFICATIONS

Operating range	Max 600 mm	
Engine	Kubota diesel common rail turbo V2403-CR T (49 kW / 65 HP)	
Pump Rioned/Speck	280 bar / 80 lpm 160 bar / 130 lpm	4100 psi / 18 gpm 2300 psi / 29 gpm
Pump protection	Run dry protection with overrun possibility	
Pressure regulator	Type Speck with automatic bypass	
Water tank	2 x 300 litres (600 litres total) or 2 x 400 litres (800 litres total)	
Fuel tank	30 litres	
Filling reel	35 metres filling hose	
HP hose	80 metres NW 13, NW 16 or NW 19	
HP reel	Hydraulic drive with RioFree freewheel, 90° + 180° pivoting	
Control	Rioned eControl+ with LCD display, warning lights, hour counter and service interval warning The ProfiJet T4 has a hose length meter counter to display the length of the hose that is feeded in the drain.	
Weight	As from 800 kgs	
Dimensions (LxWxH)	1736 x 1383 x 1186 mm	
Nozzles	2 x 1/2" (1 open, 1 blind)	
Colour	Blue hose reel, black aluminium frame	

#### OPTIONS

Remote control	RioMote 7 channel radio remote control (engine start/stop, gas regulation, pump on/off, emergency stop)	
RioPulse Pulsator	Pump adjustment to send water in pulses through the hose	
Anti-freeze tank	30 litres anti-freeze tank mounted to protect HP circuit. Drain valve mounted on heat exchanger	
Extra water tanks	4 x 300 litres or 2 x 400 litres water tanks instead of 2 x 300 litres	
Extra hose length	Extra hose lengths available	
Ventury tank filling system	Suction device to fill up the tank with water from natural sources	
2nd high pressure hose reel	Filling reel converted to a second HP hose reel for work with small diameter hose	
Electric water level control	Automatic sysytem to open and close the filling line of your machine if the water has reached its minimum or maximum level in the tank	
RioSpindel	RioSpindel automatic hose guidance on the first HP hose reel	
Remote hose reel operation	Coiling on- and off via the radio remote control	

## HIGH PRESSURE CLEANING

# OPTIONS

## ENHANCE THE FUNCTIONALITY OF YOUR JETTING MACHINE



### RIOMOTE

With RioMote radio remote your jetting machine can be controlled by a single man. With the 5 channel RioMote radio remote on our petrol driven jetters and UrbanJet, you can switch the pump on or off and increase or decrease the engine revs. In addition there is a 7 channel radio remote available on our other machines meaning you can also switch the engine on or off. There is also an emergency stop with auto-reset function for maximum safety.

RioMote remote control has a massive operating range and thanks to the extra battery supplied you can work continuously.



### RIONED ACCESSORIES

Enhance your efficiency with a range of accessories. We offer a complete range of jetting nozzles for all types of application. From standard and rotating nozzles to hydraulic root cutters and specialist nozzles to remove soil.

To extend the life of your high pressure hose we can supply hose inlet guidance tubes and rollers. The suction ventury device is a simple tool to empty flooded cellars without having to use a separate suction pump. See [www.rioned.com](http://www.rioned.com) for more details.



### WINTER PROTECTION

Severe winter conditions can seriously damage the critical components of your jetting machine. Rioned offers an anti-frost system with tank to prevent extreme weather damage.



### PULSATOR

The Pulsator is an adjustment to the pump that continuously interrupts the water flow and sends pulses of water through the hose.

Water savings of up to 80% can be achieved while time is saved because the pulsed action feeds the high pressure hose quickly and effectively into the pipework.



#### ELECTRIC WATER LEVEL CONTROL

The automatic water level control system automatically opens the filling valve if the water level is low and also shuts the supply feed off if the tank level has reached its maximum. This option allows the user to continuously fill and work uninterrupted when connected to a tap.



#### VENTURY TANK FILLING SYSTEM

The ventury system creates suction pressure in the clean water tanks which allows you to fill up with water from lakes and canals at high speed.



#### RIOFREE

The RioFree freewheel system ensures that the hose reel can be coiled off without friction of the hydraulic system, this feature significantly reduces the effort required to operate the hose reel. Standard on our CityJet and ProfiJet T4 models.



#### RIOMETER HOSE METER COUNTER

The Riometer hose meter counter supplies accurate information on how far the nozzle is inserted in the drain. It is especially useful on longer runs or when a drain is already partially cleaned. The hose meter counter is accurate to c. 2% at 100 metres.

#### MAXFLOW SEWER HOSE

By using the latest technology Rioned has developed a new type of lightweight high pressure sewer hose with a larger inner diameter. This optimizes the flow inside the hose and reduces pressure loss significantly without compromising the working or burst pressure.





# PRODUCT DEVELOPMENT REQUIRES TEAMWORK



Ivan Matejczyk, product engineer

The reliability and durability of our products come first. We only use premium components. Let something slip through? Not here. Never. Quality comes first. We make no compromises in that respect. We are speaking with Ivan Matejczyk about the development of the new Victor.

“The key word for this project is synergy”, says Ivan Matejczyk, product engineer at Rioned. Ivan and his colleagues have cooperated intensively for the launch of the Victor, our new spring machine. Ivan continues: “The Victor is the co-operational product between the Sales, Production and Engineering departments on one hand and information directly from the end-user on the other. This information was used as input during a period of intensive on-site collaboration with an industrial designer.”

The result is a contemporary spring machine packed with unique features which makes the renewed Victor ready for the future. You will find the new Victor on page 40 – 41.





# Mechanical Drain Cleaning

Rioned supplies manual spring machines in addition to electrical drum and suitcase machines for professional cleaning of drain and sewers from  $\varnothing$  32 mm up to  $\varnothing$  250 mm. Rioned springs are equipped with the Riocore blue inner core. The core of steel wire with a plastic outer sleeve provides stability to improve cleaning power and durability of the spring.

## MECHANICAL DRAIN CLEANING

# WHICH SPRING DO YOU NEED?

Rioned supplies a complete range of springs for every machine, from 6 mm springs up to 22 mm sectional springs for tough jobs. As from 10 mm our springs can be supplied with a fixed bulbous head or with an easy coupling system to attach accessories. Our drum model springs have a steel inner core with plastic outer for more cleaning power and extra durability. Our suitcase models use open wound sectional springs in 2 or 4 meter lengths.



Rioned springs have a RioCore inner for extra stability and maximum flexibility.

RANGE OF OPERATIONS MECHANICAL DRAIN CLEANING								
	Spring diameter Ø mm							
	6	7	8	10	13	16	20	22
	Max. diameter of operation Ø mm							
	32	50	60	70	100	125	150	250
Hand tools								
Type D	32-50 mm							
HandMatic	32-75 mm							
Spring machines								
FlexMatic+	32-75 mm							
AllRound +		40-125 mm						
Master			70-250 mm					
Sectional machines								
Victor	32-160 mm							
High speed machines								
RioFlex Mini		38-75 mm						
RioFlex		38-125 mm						



#### CLOSET AUGER

Hand tool to clear blockages in toilets without damaging the ceramics



#### SYPHON PUMP

Handy pump to clear blockages in toilets, urinals and drains



#### TYPE D

Simple spring machine for small blockages in drains up to 50 mm

#### TECHNICAL SPECIFICATIONS

Ø Drain/sewer	32 mm - 50 mm
Ø Spring	6 - 7 mm
Spring length	5 - 7,5 m
Weight incl. spring	1,5 kgs

#### Type D



32 - 50 mm



6 - 7 mm



5 - 7,5 m



1,5 kgs





32 - 75 mm



6 - 8 - 10 mm



7,5 - 10 m



6 kgs

## MECHANICAL DRAIN CLEANING

# SPRING MACHINES

## HANDMATIC, FLEXMATIC+, ALLROUND+ AND MASTER

The drum machines automatic spring feed unit provides an easy-to-use solution for all drain and sewer cleaning problems. Rioned drum machines have a closed drum to protect floors and walls from water and dirt while working. Rioned spring machines are lightweight due to the use of aluminum and plastics. The compact construction and low-weight make Rioned spring machines easy to transport and easy to maneuver in restricted areas. The powerful electric motor allows the suitcase models to be used for cleaning of standpipes and larger diameter drains up to 60 metres of length.

Rioned springs for drum machines come with a fixed bulbous head or with the unique square spring coupling system. With the reliable coupling system a wide range of different tools can be connected depending on the type of blockage.

### HANDMATIC

The HandMatic is an electric spring machine which is suitable for cleaning drains up to 75 mm. The HandMatic can be supplied with a drill or as a set-up unit suitable for any type of drill with a forward and reverse facility. The spring is capable of cleaning drains to their full length including bends and syphon traps. The automatic spring feed unit feeds the spring in and out of the drum.

The springs have coiled bulbous heads. The 10 mm spring has the unique Rioned square coupling system allowing different types of tools to be used depending on the type of blockage. The spring drum is closed preventing walls and floors from becoming dirty during operation.



Carrying case for the HandMatic and accessories



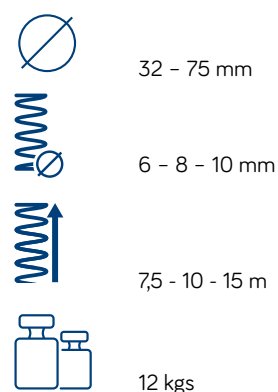
Automatic springfeed



### TECHNICAL SPECIFICATIONS

Motor	230 Volt / 0,63 kW
Ø Drain/sewer	32 mm - 75 mm
Ø Spring	6 - 8 - 10 mm
Spring length	7,5 - 10 m
Weight incl. spring	6 kgs
Maximum DbA	84
Accessories/tools *	1 - 4 - 5 - 11

\* See page 46 and 47 for a description



### FLEXMATIC+

The FlexMatic+ is the ideal spring machine for professional cleaning of drains and sewers between 32 - 75 mm diameter. The lightweight and compact design in addition to the flexible adapter hose makes it easy to handle and maneuver in narrow spaces.

The automatic spring feed unit has large roller bearings for long term use. It is easy to operate by pushing the handle forward and back to drive the spring in and out of the drain. The spring rotates in neutral position. The flexible adapter hose is ideal for narrow spaces.

The air activated foot switch turns the machine on and off which leaves both hands free for working. The springs have coiled bulbous heads. The 10 mm springs have the unique Rioned square coupling system allowing different kinds of tools to be used.



Practical automatic spring feed unit



TECHNICAL SPECIFICATIONS	
Motor	230 Volt / 0,18 kW
Ø Drain/sewer	32 mm - 75 mm
Ø Spring	6 - 8 - 10 mm
Spring length	7,5 - 10 - 15 m
Weight incl. spring	12 kgs
Maximum DbA	69
Accessories/tools *	1 - 4 - 5 - 8 - 9 - 11

\* See page 46 and 47 for a description



40 - 125 mm



10 - 13 - 16 mm



5 - 15 - 20 m



39 kgs

## ALLROUND+

The Allround+ is a real wizard. It is very compact and easy to transport. The large wheels make easy work of all types of stairs. Suitable for larger cleaning jobs the Allround+ with its powerful electric motor provides a solution for sewers and pipework of 40 - 125 mm diameter. To deal with stubborn blockages in larger pipes the springs are supplied with square couplings in order to connect a wide range of accessories for all different kinds of blockages.

The Allround+ has a closed drum of synthetic material which ensures a safe working environment and a clean working area. The drum can be changed or removed in minimal time and can be carried separately. The newly redesigned automatic spring feed unit allows the spring to feed in and out of the drain with one movement. The Allround+ has an integrated tool case with 5 standard accessories. An extensive accessories kit is optionally available including a special tulip cutter, chain flails, cutting knives and drilling heads to name a few. In the UK, the Allround+ is supplied with foot switch. .



Large wheels to take stairs



### TECHNICAL SPECIFICATIONS

Motor	230 Volt / 0,25 kW
Ø Drain/sewer	40 mm - 125 mm
Ø Spring	10 - 13 - 16 mm
Spring length	5 - 15 - 20 m
Weight incl. spring	39 kgs
Maximum DbA	75
Accessories/tools *	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 11 - 12

\* See page 46 and 47 for a description





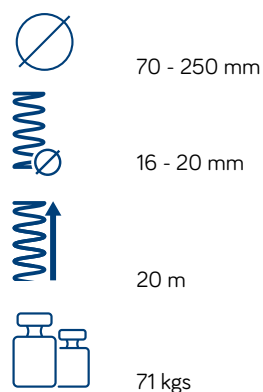
## MASTER

The Master is a larger version of the Allround+. All obstinate blockages such as roots, urine, stone and chalk can be cleared with this machine. The Master will clean drains and sewers from 70 - 250 mm.

The spring is protected by an aluminum drum which ensures a clean working area. With 2 extra spring drums you can work with a maximum length of 60 metres with a 20 mm spring.

The Master comes with six standard accessories & tools supplied in a metal case which can be transported in the special support. An extensive accessories kit with special cleaning heads is also available.

The Master is safe and user friendly. It is very easy to transport, compact in design and has an adjustable hand grip.



Drains up to 250 mm

TECHNICAL SPECIFICATIONS	
Motor	230 Volt / 0,45 kW
Ø Drain/sewer	70 mm - 250 mm
Ø Spring	16 - 20 mm
Spring length	20 m
Weight incl. spring	71 kgs
Maximum Dba	76
Accessories/tools *	1 - 2 - 3 - 4 - 5 - 6 - 7 - 8 - 9 - 10 - 11 - 12

\* See page 46 and 47 for a description





32 - 160 mm



8 - 10 - 16 - 22 mm



60 m



25 kg



Easily adjust the rotation speed



Never lose the decoupling pin again



Store the power cable safely



Spring baskets and accessories can be transported separately

## MECHANICAL DRAIN CLEANING

# SECTIONAL MACHINES

VICTOR

More powerful, more compact, and more flexible! The new Victor Light and Premium outdo their predecessors with various useful features that make unclogging jobs even easier. We succeeded in adding new and innovative features to the product by carefully listening to users of the Victor. For example, the new Victor Premium has the unique ability to rotate the spring at any desired speed, which makes this machine even more versatile.

### THE BEST OF BOTH WORLDS IN ONE MACHINE

The best of the traditional Victor and Mini Victor models has been retained and merged into a new, improved design. The Victor Light has the same electric motor as the mini Victor. The Premium version has a completely new engine, making it the most powerful of its kind. This makes the machine suitable for stubborn blockages and long pipes. The motor is a silent electric motor with a two-way switch (L-R). The spring machine is suitable for down pipes, sewers and drains with a diameter of 32 mm to 160 mm over a maximum length of 60 metres. By using an adapter drum, springs of 8 or 10 mm can be used. The Victor is suitable for segment springs of 16 mm (in lengths of 2 metres) or 22 mm (in lengths of 4 metres).

### ADJUSTABLE SPEED

When choosing the Victor Premium model, the speed can be easily and safely variably controlled while maintaining power. This allows you to set the desired speed depending on the size and type of the pipe and the type of cleaning job. It also prevents unnecessary damage to pipes.

### WORKING SAFELY

With the Victor you work safely. For example, there is a plug with earth leakage protection and two protective covers that protect the user from injury due to contact with electronic parts. The machine has a very stable frame with shock absorbers to reduce vibrations. The cord is stored securely on the two dedicated hooks.

### EASE OF USE

The Victor Premium is equipped with a lever mechanism. Because of this, the user only has to press the handle gently to operate the spring. Very practical if you are using the machine for a longer period of time or over a longer distance! Cleaning the bearings has become much easier. This is due to low maintenance bearings on the one hand and the use of seals on the other hand. Dirt and moisture don't stand a chance. A release pin for the springs is stored in a fixed place in the frame so you don't have to look for it.

The Victor is a very robust machine, very easy to maintain, multifunctional and safe for the user.

NEW:  
VARIABLE  
SPEED!



- Unprecedentedly powerful and silent machine
- Stepless rotation speed control
- Suitable for stand pipes and pipes up to 60 metres
- Light operation thanks to lever mechanism



TECHNICAL SPECIFICATIONS		
	Victor Light	Victor Premium
Motor	0,45 kW	0,75 kW
Speed	445 RPM speed	200 – 730 RPM speed
Ø Drain/sewer	32 – 160 mm	32 – 160 mm
Ø Spring	8 - 10 - 16 - 22 mm (8 - 10 mm with adapter drum)	8 - 10 - 16 - 22 mm (8 - 10 mm with adapter drum)
Spring length	40 meter	60 meter
Weight excl. spring	22 kg	24,5 kg
Power transmission	Drive V belt	Toothed belt





38 - 125 mm



8 mm (12 mm cover),  
10 mm (15 mm cover)



20 m



35 kg

## HIGH-SPEED DRAIN CLEANING

# RIOFLEX

## THE FLEXIBLE NEW WAY OF DRAIN CLEANING

The new RioFlex high-speed flexible shaft drain cleaning machine has been designed for the rapid removal of rust, cement, lime and small tree roots in concrete, cast iron and PVC drains up to 125 mm. Producing up to 3,000 RPM, the high rotation speed means the specialised selection of tools covers every part of the drain wall for thorough cleaning. This makes the machine ideal for sewer cleaning, CIPP preparation and cutting applications. The spring is protected with a flexible outer cover that allows the cable to go through the tightest of bends. The RioFlex can be supplied with a range of specialist cleaning heads for optimal operation in different drain types and diameters.

### REMOTE CONTROL

The RioFlex is the only high-speed flexible shaft machine in its class supplied with adjustable radio remote control. The ergonomic design means the unit excels in confined spaces, with the hand-operated remote control enabling comfortable and safe operation a few meters away from the machine.

Using the remote control, the maximum speed and torque can be set gradually, depending on the nature of the task and pipe material, helping minimize the risk of damage. The LED display also shows the torque and speed of the cleaning head as it progresses along the pipe, giving a clear indication of the effectiveness of your cleaning action.

### DRIVE

The RioFlex is powered by a muscular 0.55 kW electric motor. This specially developed engine is both quieter and more powerful than drives made for common hand tools, such as angle grinders or drills.

### TRANSPORTATION

The RioFlex is mounted on two wheels and includes a retractable handle for ease of transportation. When working in confined spaces or difficult to reach areas, such as an apartment block without an elevator, the electric engine pack and the reel can be separated and used independently. It is also possible to work with a separate cable and the detachable engine pack. Because the RioFlex uniquely separates into two components, transportation and lifting is a simple and safe task.

### INTERCHANGEABLE REELS

The RioFlex's detachable engine pack can be used with different reel combinations. Available reel lengths and cable diameters include:

- 15 metres x 8 mm for pipe diameters 38 to 100 mm
- 12 metres x 10 mm for pipe diameters 50 to 125 mm
- 20 metres x 10 mm for pipe diameters 50 to 125 mm



CONFIGURATIONS				
	Cable	Cable Housing	Length	Pipe Diameter
RioFlex1 - Small Reel	8 mm	12 mm	15 mtrs	38 - 100 mm
RioFlex2 - Small Reel	10 mm	15 mm	12 mtrs	50 - 125 mm
RioFlex3 - Large Reel	10 mm	15 mm	20 mtrs	50 - 125 mm

TECHNICAL SPECIFICATIONS	
Motor	0.55 kW
Ø Operating range	38 - 125 mm
Ø Spring/cover	8 mm/12 mm and 10 mm/15 mm
Length 8 mm spring	15 m
Length 10 mm spring	12 metres or 20 metres (larger reel)
Weight	35 kg total (engine 17 kg, reel 18 kg)



#### ACCESSORIES

A large number of accessories are available for RioFlex. Choose the desired accessory depending on the pipe construction and application. Chain heads with carbide tips are available for cast iron and concrete pipes. Smooth chain heads are available for cleaning and unclogging PVC pipes. There are also different drill heads available for the toughest jobs.





38 - 75 mm



8 mm (12 mm cover)



5 m



4 kg

## HIGH-SPEED DRAIN CLEANING

# RIOFLEX MINI

## THE POWER OF SIMPLICITY

The RioFlex Mini is the ideal entry-level tool for unclogging and cleaning short pipes in kitchens and bathrooms. Blockages in smaller diameter pipes are removed in an instant with this handy high-speed cleaner. Due to its ease-of-use, safety features and low weight, the RioFlex Mini has become an indispensable tool for installers, plumbers and sewer cleaners in the short period since its launch.

The RioFlex Mini is supplied with a range of cleaning heads that attach to the 5 meters long 8 mm cable. The unit is simply operated by connecting the cable to the cordless drill. The protective housing around the cable is easy to clean with a cloth after use, and the complete kit can be stored and transported in the handy packaging.

### INCLUDED

FOR PVC PIPES	FOR CONCRETE AND METAL PIPES
5 mtrs of 8 mms RioFlex cable in plastic housing	5 mtrs of 8 mms RioFlex cable in plastic housing
Set of tools: 40 mm Chain Knockers 50 mm Chain Knockers 75 mm Chain Knockers	Set of tools: 40 mm Chain Knockers 50 mm Pipemaster Chain Knockers 75 mm Pipemaster Chain Knockers
Carrying bag	Carrying bag
Teflon-spray	Teflon-spray

### OPTIONALLY AVAILABLE

High speed cordless drill with clutch



### TECHNICAL SPECIFICATIONS

Motor	Separate high speed cordless drill
Ø Operating range	38 - 75 mm
Ø Spring/cover	8 mm (12 mm cover)
Length spring	5 m
Weight	4 kg





## MECHANICAL DRAIN CLEANING

# APPLICATION TOOLS

Rioned supplies a complete range of springs for every machine, from 6 mm springs up to 22 mm sectional springs for tough jobs. As from 10 mm our springs can be supplied with a fixed bulbous head or with an easy coupling system to attach accessories.

APPLICATIONS TOOLS					
	Blockage				
	soap/hair	clothes	roots	cleaning	urine stone/chalk
1 Standard bulbous head	••	•		••	
2 Straight drilling head		•		••	
3 Funnel head		••			
4 Cutting knife	••		••	•	••
5 4 or 6 blade drilling head	••		•	••	••
6 Retrieving hook		••			
7 Diamond shaped head	••		•	••	••
8 Chain head	•			••	•
10 Root cutter			••		
11 Tulip cutter	••			•	••

Best possible: ••

Possible: •





#### 1 BULBOUS HEADS

For light cleaning in curved pipes.



#### 6 RETRIEVING HOOKS

To remove obstacles from pipes such as cloths, napkins etc.



#### 11 TULIP CUTTER

The Tulip Cutter causes less damage, never gets stuck and removes debris more evenly, safely and cleanly than similar tools, such as a chain head. Ideal for removing hardened grease, lime and urine deposits and rust in pipes ranging from 50 to 125 mm.



#### 2 STRAIGHT DRILLING HEADS

Tool to determine right accessory for the job.



#### 7 DIAMOND SHAPED HEADS

For pipes tarnished with chalk or urine stones.



#### 12 INLET GUIDE TUBE

To guide the spring in difficult places.



#### 3 FUNNEL HEADS

For long curved pipes.



#### 8 CHAIN HEADS

to clean steel and iron pipes. The chain heads with cam chains are for cleaning strong polluted pipes.



#### 4 CUTTING KNIVES

To mill large pipes.



#### 9 REPAIR AND QUICK COUPLINGS

to connect springs or to repair broken springs.



#### 5 4 AND 6 BLADE DRILLS

To mill overgrown pipes.



#### 10 ROOT CUTTERS

To saw tree roots.



R.

## SMALL TANKER MAKES LIGHT WORK OF INNER CITIES



Edincare Drains, based in the UK, is using our powerful and compact RioCom. Director Andy Simpkins says the addition of the RioCom has brought immediate benefits. "85% of our work is inside the M25," he says. "The new tanker is superb for working in London. Being a 7.5-tonne unit means we can work anywhere in the city, including the ULEZ zone, without restriction."

The size of the unit also means we're able to easily park outside homes and businesses without having to double park as we would with a larger tanker. This obviously causes fewer issues from neighbours and passing traffic."

He says they have also been impressed with the power of the RioCom, even when parking a distance from the site. "Most of our work is in basements and we recently cleared a chamber, with a base that was approximately 10m from finished floor level. The overall hose length was 49m from the tanker and it handled it comfortably."





# Jetting/Vacuum Cleaning

Rioned specializes in the design of compact, high-quality jetting/vacuum combination units for emptying grease traps, wells and flooded basements as well as the cleaning of heavily polluted drains and sewers. Our combination units are often used where larger vehicles struggle to gain access. Using smaller vehicles also has considerable economic benefit with much lower operational costs. Rioned offers a series of concept vehicles which can be easily configured with a range of useful options.



JETTING/VACUUM CLEANING

# URBANCOMBI

THE NEW URBAN JETVAC COMBINATION UNIT  
THAT GOES WHERE OTHERS CAN'T

## NARROW STREETS

The Rioned UrbanCombi unit is developed for work in height restricted areas and narrow city streets. It is also well suited for use on difficult terrain and in rural areas thanks to its four wheel drive capability. The UrbanCombi is often spotted in carparks and narrow city streets. It has powerful pumps to clean heavily polluted pipes and to empty wells or grease traps. A truck license is not required to operate the UrbanCombi.

## NEXT LEVEL

The unit has become very popular in the industry and therefore we are taking it to the next level. Early 2021 we will launch a new model which is even more versatile. It can be configured to meet all your requirements, whatever challenges you are facing. Interested? Keep an eye on our social media posts or contact your Rioned sales team to find out more.









#### UniCom, basic version



Max 300 mm



Optional



1.000 / 500 litres



3.5 / 4.5 / 5.5 T



#### UniCom, standard version



Max 450 mm



7 or 9-channel



1.000 / 500 litres



4.5 / 5.5 / 7.5 T



## JETTING/VACUUM CLEANING

# UNICOM

## COMPACT AND LIGHTWEIGHT, SUITABLE FOR ALMOST EVERY COMMERCIAL VEHICLE

### COMPLETELY CUSTOM MADE

Its contemporary design makes this machine a real jack-of-all-trades, perfectly suited for all kinds of high pressure and suction cleaning work in city centres, parking garages and other difficult-to-reach places. House connections, sewers, grease traps and street wells can be efficiently unblocked and cleaned with the UniCom. You can have this modular UniCom combination unit completely customised with any of the available options, based on the specifications and options you require.

### ONTO, IN OR BEHIND THE VEHICLE

The design of the UniCom makes it easy to install on 4.5 T and larger chassis cabs such as the Nissan Cabstar, Renault Maxity, VW Crafter, Mercedes Sprinter or Iveco Daily. Depending on the type/brand of commercial vehicle and the weight distribution of the tank, it is possible to drive a vehicle fitted with this UniCom combination with a category B Dutch driving licence. The UniCom can also be mounted on a trailer or in an enclosed service van. Thanks to its limited size, the UniCom moves nimbly through busy city traffic.

### MANY POSSIBILITIES

The UniCom has a 1.500 litres tank with a 1.000-litres waste- and 500-litres clean water compartment or in a different configuration if required. The UniCom can be equipped with many options and accessories: from a radio remote control system to a hydraulically-operated suction hose reel; the choice is yours.

You can opt for a basic version with petrol engine and a simple canopy over the engine and pump compartment or a standard version with diesel engine and completely enclosed engine- and pump compartment. All components are easily accessible for maintenance. The tank is galvanised, but it can also be spray-painted in any desired company colour.

### COMPLETE PACKAGE

Whatever version you choose, the UniCom is ready to get the job done in a professional manner. A reliable petrol or diesel engine in combination with a top quality high pressure and suction pump. The rear hatch swings all the way open to enable you to empty and clean it. The slanted discharge partition ensures that little or no waste remains behind.

Two suction hoses, including couplings, 60 m x NW 13 high pressure hose and two jet nozzles make the package complete.



Basic model UniCom with suction reel





Standard model with ample storage space

- 270° pivoting high pressure hose reel
- Suitable for all types of vehicle
- High-performance engine
- 1.500 litres tank partitioned according to your requirements

TECHNICAL SPECIFICATIONS				
	Basic version		Standard version	
Tank	1.500 litres (500 litres clean, 1.000 litres waste water tank, other division possible) Galvanized or painted steel		1.500 litres (500 litres clean, 1.000 litres waste water tank, other division possible) Galvanized or painted steel	
High pressure pump Rioned/Speck	140 bar / 60 lpm	2200 psi / 13 gpm	140 bar / 60 lpm 200 bar / 45 lpm	2000 psi / 13 gpm 3000 psi / 10 gpm
Vacuum pump	MEC 5000 (5.000 lpm / 300 m <sup>3</sup> /hour)		GD SLS54V (5.400 lpm / 325 m <sup>3</sup> /hour)	
Engine	Honda petrol (24 HP)		Kubota diesel D1105 (18.5 kW/25 HP)	
Cover engine and pumps	Cover, fully enclosed engine/pump compartment optionally available		Fully enclosed engine/pump compartment	
Storage	Storage for hoses underneath the tank		Tool boxes at both sides of the tank	
High pressure hose reel	Pivoting, manually driven with 60 metres high pressure hose NW 13		Pivoting, hydraulically driven with 60 metres high pressure hose	
Supply hose reel	Optional		Supplied with 35 metres NW 19 supply hose	
Suction hose reel	Optional		Manually or hydraulically driven hose reel with 25 metres 2,5" suction hose	
Remote control	Optional		RioMote 7 or 9 channel radio remote control	
Magnetcoupling	Optional		On vacuum pump	
Options	Extra drain valve, working light, warning light, suction ventury, anti-freeze system, RioPulse pulsator system		Extra drain valve, working light, warning light, suction ventury, anti-freeze system, RioPulse pulsator system	





Max 650 mm



9-channel



3000 / 3750 litres



7.5 / 10 / 12 T



## JETTING/VACUUM CLEANING

# FLEXCOM

## THE VERSATILE JET/VAC COMBINATION UNIT

### FLEXCOM HIGHLY VERSATILE

The Rioned FlexCom has been designed for use in built up areas and in locations where larger vehicles struggle to gain access. The FlexCom is with a range of options, mounted on a 7.5t Mitsubishi Fuso Canter or even a 10 or 12t Mercedes-Benz, DAF or MAN chassis.

### FLEXIBLE CAPACITY

The FlexCom has a tank with a 3.500 or 3.750 litres capacity, depending on the chosen chassis. It can be supplied with a sliding partition to allow the capacity of the clean water or waste water sections of the tank to be adjusted. The hydraulic cylinder allows you to move the partition to your preferred position.

### EFFECTIVE STORAGE SPACE

The FlexCom has been designed to ensure perfect weight distribution resulting in stable road handling. This allows you to carry more water without compromising on space. It comes with large storage compartments on either side of the vehicle for storing Accessories, PPE and tools. Hose boxes above, neatly store your suction hoses.

### USER-FRIENDLY REELS

The suction reel is connected directly to the tank and the 2 1/2" suction hose can be coiled and uncoiled using the hydraulic system. This feature allows the vehicle to be parked some distance from where you are working. The RioMote radio remote control system allows one person to operate the machine with ease from a distance. The pivoting high pressure reel provides optimum ergonomics and ease of use. The reel features a new hose guide system (optional) and can pivot 180°. The control panel pivots with the reel ensuring the best operating height and angle at all times.

### VACUUM PUMP

The FlexCom is equipped with a high-performance, air-cooled, oil-lubricated SLS54V vacuum pump as standard. The pump has a suction capacity of 5.400 lpm (325 m<sup>3</sup> per hour). Several pump upgrades are available, including a high performance & environmentally friendly liquid ring pump (8.600 lpm).



FlexCom on a MB Atego chassis



Movable partition for capacity increases, only for Flexcom 10 or 12 tonnes.



- Gross vehicle weight 7.5, 10 or 12 tonnes
- Hydraulically adjustable partition (optional)
- Compact dimensions and lightweight
- Liquid-ring pump available optionally
- Suitable for all cleaning operations in built up areas

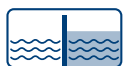
TECHNICAL SPECIFICATIONS	
Chassis	Standard 7.5, 10 or 12 tonnes
Tank	3000 / 3750 litres total
Tank opening	Fully hydraulic
Movable partition	Optional
High pressure pump Rioned/Speck	Several configurations possible
Vacuum pump	0.8 bar suction / 0.5 bar pressure Palette blade pump (325 m <sup>3</sup> /hour), air injected pump (430 m <sup>3</sup> /hour), liquid ring pump (516 m <sup>3</sup> /hour) or blower suction pump (1.500 m <sup>3</sup> /hour)
Drive	PTO
Connection	3" suction valve, 4" drain valve, hydrant filling connection
Storage	Tool boxes with hose boxes on top
High pressure hose reel	180° pivoting with hydraulic drive with 80 metres high pressure hose
Supply hose reel	Supplied with 35 metres NW 19 supply hose
Suction hose reel	Hydraulic driven hose reel with 25 metres 2.5" or 3" suction hose
Pneumatic valve	Remote controlled pneumatic valve optionally available
Remote control	RioMote 9 channel radio remote control



Max 650 mm



9-channel



800 litres



5.5 T



## JETTING/VACUUM CLEANING

# SKIDCOM

## THE ALL-YEAR ROUND JETTING / VACUUM COMBINATION UNIT

### BEHIND CLOSED DOORS

The SkidCom is a jetting/vacuum unit built into a Mercedes Benz Sprinter or Iveco Daily. As the unit is safely stored behind closed doors, it is well protected in harsh weather conditions. Due to its compactness, it is also ideal for jetting- and suction jobs in narrow streets and other difficult-to-reach places. Flooded cellars, grease traps and clearance of heavily polluted drains can be cleared all year round.

### LIGHT WEIGHT

The waste water tank can hold 800 liters, the polyethylene lightweight tanks take 800 liters of clean water. Frame and waste water tank are made out of high strength aluminum keeping the total weight at a minimum of around.

### COMPLETE SYSTEM

The SkidCom is very versatile and complete. It comes with an hydraulically driven suction reel (with ca. 30 meters of 2" suction tube) in addition to a 3" tank inlet. The swing-out high pressure reel accommodates two hydraulically driven high pressure jetting reels. Spray-nozzles in the waste water tank, a 3" outlet and a large inspection shutter make it easy to remove any remaining dirt. A work light for late-night jobs as well as a filling reel come as standard. The fixed supply line is equipped with an electric water level control system for automatic filling and to avoid water spillage.

### PERFORMANCE

The powerful Speck high pressure pump delivers ca. 200 bar / 70 liters per minute (depending on PTO output of the car). The first high pressure reel is equipped with 80 meters 1/2" or 5/8" MaxFlow jetting hose, the second reel with 60 meters of 3/8" hose for smaller diameter pipes. The air cooled, oil lubricated GD SLS54V vacuum pump has a suction capacity of 325 m<sup>3</sup>/hour. The Riomote remote control system allows operation by a single man.

### POWER OPTIONS

Options for the SkidCom include a second high pressure pump of 375 Bar / 37 liters per minute for effective cleaning of standpipes. Another addition to the system is a hot water boiler unit (550 bar / 22 lpm) which is ideal work on cold days and to clear fat, oil and grease effectively.



Optional hot water boiler available



Ample space to store tools and accessories





- Built-in unit to withstand harsh winters
- Mercedes Benz Sprinter or Iveco Daily chassis
- 800 liters clean, 800 liters waste water
- Powerful high pressure- and vacuum pump
- Lightweight aluminum construction

TECHNICAL SPECIFICATIONS		
Chassis	Mercedes Benz Sprinter, Iveco Daily	
Drive	PTO, hydraulic	
Tank	Aluminum waste water 800 liters PE clean water tanks 2 x 400 liters	
High pressure pump Rioned/Speck	200 bar / 72 lpm 150 bar / 100 lpm	3000 psi / 16 gpm 2250 psi / 22 gpm Depending on PTO output of the vehicle.
Pump protection	Run dry protection with overrun possibility	
Hose reels	2 swing-out hydraulically driven high pressure hose reels, 1 reel with 80 meters 1/2" or 5/8" light-weight hose, 1 reel with 60 meters 3/8" hose Hydraulically driven suction hose reel with ca. 25 meters 2" suction hose	
Vacuum pump	GD SLS54V (capacity 325 m³)	
Control	Rioned eControl+ with LCD display, warning lights, hour counter and service interval warning	
Remote Control	Riomote remote control system: engagement of pumps, gas regulation and emergency stop	
Dimensions (LXWxH)	2816 x 1400 x 1470 mm	
Included accessories	High pressure jetting nozzles, spray-gun and lance, suction hose and tube	
Electric water level control	Automatic opening and closing of the filling valve	
Tank emptying	3" outlet, inspection cover, spray nozzles in tank	
Boiler	Hot water boiler 500 bar / 22 lpm	



eControl+ control panel



Max 650 mm



9-channel



3,000 litres



7.5 T



## JETTING/VACUUM CLEANING

# RIOCOM 7.5 T

## ALLROUND JETVAC FOR DAILY USE

### POWERFUL CONCEPT

The RioCom is Rioned's affordable alternative to large combination units, ideal for contractors working in congested city centres. It is compact, manoeuvrable and designed for everyday use at a low operational cost. The powerful high-pressure Speck pump in combination with the enhanced suction pump clears the most stubborn blockages and easily cleans grease traps, wet wells, pump stations and flooded basements. The RioCom is a true single-resolution vehicle for the drainage industry.

### TANK

This combination unit has a split 3,000 litres tank compartment - 2,000 litres waste and 1,000 litres clean water - with an interconnecting valve to allow both tanks to be filled with clean water for large descaling or jetting tasks. The tank has a fully opening rear door with hydraulic, swivelling jetting hose reel, a 3" inlet and a 4" outlet as well as a sludge tank level indicator. The added suction hose reel with 17m of 3" suction hose is directly connected to the tank for immediate operation.

### SINGLE MAN OPERATION

The radio remote system allows the vehicle's engine and both pumps and the revs to be controlled from a distance by a single person. The unique eControl+ system, with clear LCD screen, provides operators system information at a glance. An easy-to-use jog-wheel guides users quickly through a clear menu system with all machine functions available at a single click. The integrated LED lights indicate current machine status with functions displayed including working hours, engine rpm, run dry protection, eco function, service intervals and various temperature and liquid level warnings.

### STORAGE

The RioCom incorporates comprehensive storage possibilities, enabling contractors to carry additional equipment. Based on customer feedback, additional secure, shuttered doors have been added, with the cabinets along both sides providing enough capacity for PPE, an inspection camera and all the tools required to carry out the most demanding jobs.

### VERSATILITY

The RioCom offers great versatility and was developed for use in built-up areas and locations where larger vehicles may struggle to gain access. Despite its compact design, the unit houses two very powerful pumps that can operate simultaneously. In some cases no additional driving licence requirements are needed.

### CLEAN AND GREEN

The base vehicle of the RioCom is a Mitsubishi Fuso Canter 7C18 chassis with EURO-6 turbo-charged, direct-injection engine. The new unit has been built to meet new emission standards by featuring a PTO (Power Take-off) drive that uses power from the vehicle engine to operate the pumps. With the introduction of ultra-low emission zones (ULEZ) across major European cities, the RioCom has full European type approval and is ULEZ ready.





- Powerful pumps that operate simultaneously
- 3.000 litres tank with fully opening door
- Suitable for all cleaning operations in built-up areas
- Plenty of secure storage space for PPE and tools
- ULEZ (ultra-low emission zone) compliant

TECHNICAL SPECIFICATIONS										
Chassis	Fuso Canter 7C18, 176 HP, EUR 6, white									
Drive	PTO									
Tank	3000 litres (660 gallons) 2000 litres waste, 1000 litres clean water Fully opening rear door (manually) Equipped with wastewater level indicator, 3" inlet and 4" outlet									
High pressure pump Rioned/Speck	<table><tr><td>Rioned Speck P52</td><td></td></tr><tr><td>150 bar / 100 lpm</td><td>2200 psi / 22 gpm</td></tr><tr><td>270 bar / 70 lpm</td><td>4000 psi / 15 gpm</td></tr><tr><td>200 bar / 72 lpm</td><td>3000 psi / 16 gpm</td></tr></table>		Rioned Speck P52		150 bar / 100 lpm	2200 psi / 22 gpm	270 bar / 70 lpm	4000 psi / 15 gpm	200 bar / 72 lpm	3000 psi / 16 gpm
Rioned Speck P52										
150 bar / 100 lpm	2200 psi / 22 gpm									
270 bar / 70 lpm	4000 psi / 15 gpm									
200 bar / 72 lpm	3000 psi / 16 gpm									
Pump protection	Run dry protection with overrun possibility									
Jetting hose reel	Hydraulically driven with 100m x NW16 (5/8") with ½" coupling									
Clean water filling	Filling reel with 50m ¾" hose, 2" hydrant connection									
Vacuum	Jurop PNR 82, oil lubricated, compressed air cooled 8,200 litres minute / 0.8 bar suction and 0.50 bar pressure									
Suction hose reel	Direct connected to tank with 17 ca. meters 3" hose or 20m 2.5" hose									
Operation	Rioned eControl+ system with digital display									
Remote control	Riomote 9-channel radio remote system to start/stop the engine, pumps on/off, gas up/down and emergency stop									
Storage	Lockable compartments at both sides of the tank (roller shutter doors optional), hose storage boxes									
Dimensions (LxWxH)	6260 x 2080 x 2488 mm									
Empty dry weight	4816 kgs									
Road safety	LED warning lights, reflective markers									
Included accessories	Nozzles, gun and lance, suction- and jetting hoses									





# R.



USB nozzles are perfect for removing grease and roots

## USB NOZZLES

Rioned is an official dealer of USB nozzles. USB is a German manufacturer of high-quality stainless steel nozzles. The nozzles are precision engineered to ensure durability and superior cleaning performance. By using only the strongest and most durable industrial materials, the nozzles are resistant to chemicals, acids and alkalis and other mineral substances. USB nozzles are designed to clean better with less water and can also be used with recycled water.



# Jetting Nozzles

Rioned has an extensive range of nozzles for every high-pressure cleaning machine. These meet the highest efficiency demands and are suitable for a wide range of blockages in pipes with a maximum diameter of 650 mm. Our range of nozzles consists of rotating jetting nozzles, radial nozzles, special nozzle sets, specialty nozzles and, new in our range, USB nozzles.





# JETTING NOZZLES

## A DIFFERENT NOZZLE FOR EACH BLOCKAGE AND DRAIN



Rioned supply a wide range of nozzles for every type of machine. Our extensive range of jetting nozzles clear all types of blockage in drains up to 650 mm.

### ENHANCE YOUR JETTING PERFORMANCE

Choosing the correct nozzle is essential for the performance of your machine and can enhance the efficiency of your jetting machine saving you time and money. The right nozzle provides:

- thorough cleaning,
- optimal rinsing effect,
- high to very high traction,
- minimal loss of pressure,
- minimized cleaning time,
- high performance velocity from the water jets,
- low friction resistance,
- no damage to sewer pipes.



Rioned supply (stainless) steel, aluminum or bronze nozzles that meet the highest efficiency demands.

### FOR EVERY BLOCKAGE

There are two main categories of nozzles; radial jetting nozzles are optimized for unblocking of drains while rotating nozzles are designed for cleaning. The static jet streams of radial nozzles have maximum traction power due to their rear facing nozzles. The jets in rotating jetting nozzles have a 360° wide reach to clean the entire pipe wall. They are often used to do extra cleaning after unblocking a drain to prevent forming of new blockages.



There are specialty nozzles to clear drains from different contaminants like F.O.G. (Fat, Oil, Grease), soap or urine scale. Others are equipped with chains or steel wires to handle the most difficult jobs like descaling of lime, cement or concrete, hard grease and tree roots.

### OPEN OR BLIND

An open jetting nozzle has forward and rear facing holes. The forward jet streams unblock and the rear jet streams provide traction. A blind jetting nozzle has only rear facing holes to provide the best possible traction optimizing the unblocking power.



### INSERTS

Many jetting nozzles have inserts that are replaceable. Overtime the water wears out the nozzles causing a loss of pressure. Hardened steel or even ceramic nozzle inserts are most resistant to wear.



## HOSES AND ACCESORIES

Just like the nozzle the quality of the jetting hose is essential for optimum performance.

As a result of rigorous testing, Rioned has designed a hose that is light-weight, flexible and features a smooth inner core. The new Rioned MaxFlow hose has wider inner diameter than any other comparable hose and therefore has less pressure loss, guaranteeing maximum water flow. Several accessories are available to protect the hose from premature damage like sharp edges.

	Cleaning	Unblocking grease and soap	Sand	Hardened deposits (lime concrete, cement etc.)	Ice in drains	Roots	Washing wells and pumps
Standard jetting nozzles	•	•	•				
S31	•	•	•				
Front jetter							••
High yield jetting nozzle	••	•	•				
Rocket jetting nozzle black	•	••	•	••			
Granate	•	••	•	••			
Torpedo	•	••	•	••			
Quatro set	•		•	••	••		
Standard rotating jetting nozzle	••	••	•				
Tornado	•	••	•	••	••	•	
Buster	•	••	•	••	•	•	
Blizzard	•	••		••	••	••	
Root cutter		•		•	••	••	
Sand shoe			••				

Possible •

Best solution ••

## NOZZLE SETS AND SPECIALTY NOZZLES

Rioned offer two complete nozzle kits with a complete range of tools for different applications. The Basic kit includes the nozzles every professional sewer cleaner working in residential and commercial areas should have in his toolbox. The nozzles in the Professional kit are for the most demanding jobs in larger diameter pipes.



### THE BASIC CONTAINS:

- Two mini jetting nozzles 1/8" (open and blind) suitable for a mini high pressure jetting hose
- S31
- High efficiency jetting nozzle
- Front jetter
- Granite jetting nozzle
- Quatro set
- Rotating jetting nozzle stainless steel
- Nozzle needles
- Universal lubricating oil



### THE PROFISET CONTAINS:

- Two mini jetting nozzles 1/8" (open and blind) suitable for a mini high pressure jetting hose
- S31
- High efficiency jetting nozzle
- Front jetter
- Rotating jetting nozzle tempered steel
- Tornado
- Quatro set
- Torpedo
- Sand shoe
- Nozzle needles
- Universal lubricating oil

## BLIZZARD (WARTHOG) JETTING NOZZLE

The Warthog jetting nozzle offers unrivalled performance and is among the most popular nozzle in the industry. It easily removes grease, cuts roots, clears ice and soil blockages. The hydraulically speed controlled jets provide a powerful spray-beam for both cleaning and unblocking purposes. Numerous centralizer accessories are available to position the jet in different sized drains.



	Mini	Small	Large	Extra Large
Diameter	48	48	79	107 mm
Length	67	112	191	231 mm
Design	stainless steel, open			
Water flow	15 - 45 lpm 3 - 10 gpm	27 - 75 lpm 6 - 17 gpm	42 - 150 lpm 9 - 33 gpm	190 - 300 lpm 42 - 67 gpm
Pressure	275 / 4000	275 / 4000	550 / 8000	200 / 3000 bar/psi
Connection	3/8"	1/2"	1/2" or 3/4"	1"
Usage	drains with Ø 75 - 900 mm 90°-bends starting from:			
	75 mm	110 mm	250 mm	300 mm
Rotation speed	300 - 500	200 - 500	150 - 300	150 - 300 rpm

## BUSTER JETTING NOZZLE

Made for the most difficult obstructions, but relatively light-weight. It hits, cuts and scrapes through everything.

The Buster is delivered as a set with a body and three jetting nozzles provided with:

- Link chains for hardened blockages (limescale, cement or concrete)
- Industrial chains, sharp enough to tackle grease or smaller roots
- Steel wires to scrape the pipes clean.

The set also contains a cutting point to drill through blockages.



Diameter	50 mm
Length	65 mm
Design	tempered stainless steel, open and blind
Water flow	30 - 120 lpm / 7 - 27 gpm
Pressure	80 - 300 bar / 1130 - 4230 psi
Connection	1/2"
Usage	drains with Ø 80 - 250 mm 90°-bends starting from Ø 90 mm
Rotation speed	depending on the capacity of the machine

## HYDRAULIC ROOT CUTTER

The best solution for drains that are blocked by roots, hard grease, compacted sand or soil. Rioned root cutters are powerful, reliable and easy to use. They consist of a central body with knives in different sizes and matching skids to keep them centralized in the drain. The knives have sharp angular teeth at front and rear.

Rioned supplies two types: there is a standard root cutter as well as the Maxi. The Maxi is for high pressure jetting machines and combination units with more water flow and bigger connections.

All root cutters come as a complete set in a carrying box. Each set contains:

- standard knives
- standard skids
- transport box
- grease/waternipple
- mounting set
- grease gun

	Hydraulic root cutter	Hydraulic root cutter Maxi
Diameter	starting from 100 mm	starting from 150 mm
Length	200 mm (knife included)	310 mm (knife included)
Design knives	tempered steel	tempered steel
	open	open
Water flow	40 - 120 lpm / 9 - 27 gpm	135 - 230 lpm / 30 - 51 gpm
Pressure	max. 140 bar / 2100 psi	max. 140 bar / 2100 psi
Connection	1/2"	3/4", 1"
Usage	drains with Ø 100 - 350 mm	drains with Ø 150 - 500 mm
Standard knives	Ø 100, 150 or 200 mm	Ø 150, 200, 250, 300 or 375 mm
Optional knives	Ø 125, 225 or 250 mm	
Standard skids	Ø 100, 150 or 200 mm	Ø 150, 200, 250, 300 or 375 mm
Optional skids	Ø 125, 225 or 250 mm	



Hydraulic root cutter



Hydraulic root cutter Maxi





# ROTATING JETTING NOZZLES

## STANDARD ROTATING JETTING NOZZLE STAINLESS STEEL



Rotating jetting nozzle that cleans away deposits of soap and grease and leaves drains streakfree.

Diameter	40 mm
Length	85 mm
Design	stainless steel, steel insert nozzles
Water flow	40 - 120 lpm / 9 - 27 gpm
Pressure	max. 300 bar / 4350 psi
Connection	1/2"
Usage	drains with Ø 90 - 200 mm 90°-bends starting from 110 mm
Suitcase	Basic

## TORNADO JETTING NOZZLE



The 'super unblocker'. This jetting nozzle has a special construction with a rotating ceramic part so that the water comes out in the form of a cone. This cone drills away any obstructions. At the same time the Tornado has an excellent traction.

Diameter	39 mm
Length	64 mm
Design	stainless steel, open with insert nozzles
Water flow	30 - 120 lpm / 7 - 27 gpm
Pressure	max. 300 bar / 4350 psi
Connection	1/2"
Usage	drains with Ø 75 - 200 mm 90°-bends starting from 110 mm
Suitcase	Basic

## STANDARD ROTATING JETTING NOZZLE TEMPERED STEEL



Rotating jetting nozzle made of tempered steel with ceramic insert nozzles.

Diameter	40 mm
Length	85 mm
Design	stainless steel, ceramic insert nozzles
Water flow	10 - 400 lpm / 2 - 89 gpm
Pressure	max. 300 bar / 4350 psi
Connection	1/8", 1/4", 3/8", 1/2"
Usage	drains with Ø 32 - 250 mm 90°-bends starting from 110 mm
Suitcase	Profiset

# RADIAL JETTING NOZZLES

## STANDARD JETTING NOZZLE

Rioned delivers standard nozzles with each new high pressure jetting machine. They belong to the basic equipment and are mainly used for working on deposits of grease and soap in pipes in or around the house.

Diameter	16 - 50 mm
Length	17 - 60 mm
Design	stainless steel, open and blind
Water flow	10 - 120 lpm / 2 - 27 gpm
Pressure	max. 300 bar / 4350 psi
Connection	1/8", 1/4", 3/8", 3/4", 1/2", 1"
Usage	drains with Ø 32 - 250 mm 90°-bends starting from 39 mm
Suitcase	Basic and Profiset



## S31 JETTING NOZZLE

The shorter version of the Standard jetting nozzle; also meant for unblocking pipes in or around the house. It has a strong jet stream for good cleaning. However, the S31 can move through curves and smaller pipes better because of its shorter length.

Diameter	34 mm
Length	31 mm
Design	stainless steel, open and blind
Water flow	30 - 120 lpm / 7 - 27 gpm
Pressure	max. 300 bar / 4350 psi
Connection	1/2"
Usage	drains with Ø 75 - 250 mm 90°-bends starting from 90 mm
Suitcase	Basic and Profiset



## FRONT JETTER

This jetting nozzle has only 1 front jet and no jet stream backwards. Therefore it is best used to clean wells and pumps or to push forward the sludge through the pipes.

Diameter	28 mm
Length	85 mm
Design	precious steel, blind (no holes at the rear)
Water flow	30 - 400 lpm / 7 - 89 gpm
Pressure	max. 200 bar / 2900 psi
Connection	1/2"
Suitcase	Profiset



## HIGH YIELD JETTING NOZZLE

Combines traction with cleaning capacity. Its high yield comes from a built-in chamber that limits the loss of pressure in the jetting nozzle. Its cleaning capacity comes from two spray rings giving jet streams at different angles.

Diameter	38 mm
Length	46 mm
Design	stainless steel, open and blind
Water flow	40 - 120 lpm / 9 - 27 gpm
Pressure	max. 300 bar / 4350 psi
Connection	1/2"
Usage	drains with Ø 90 - 300 mm 90°-bends starting from 110 mm
Suitcase	Basic



# RADIAL JETTING NOZZLES



## GRANATE JETTING NOZZLE

A standard jetting nozzle for larger diameter pipes. It also has an excellent traction.

Diameter	50 mm
Length	75 mm
Design	stainless steel, open with insert nozzles
Water flow	40 - 120 lpm / 9 - 27 gpm
Pressure	max. 300 bar / 4350 psi
Connection	1/2"
Usage	drains with Ø 90 - 250 mm 90°-bends starting from 150 mm
Suitcase	Basic



## TORPEDO JETTING NOZZLE

The Torpedo nozzle is the bigger brother from the Granate. Suited for large pipe diameters. The rear jets provide maximum traction.

Diameter	75 mm
Length	125 mm
Design	stainless steel, open with insert nozzles
Water flow	40 - 400 lpm / 9 - 89 gpm
Pressure	max. 300 bar / 4350 psi
Connection	1" (if necessary adapter ring 1" to 1/2" or 3/4")
Usage	drains with Ø 150 - 500 mm 90°-bends starting from 200 mm
Suitcase	Profiset



## QUATRO SET JETTING NOZZLE

The tapering jetting nozzle is best for difficult obstructions. It cuts, breaks and removes them. The Quatro set is also the ideal tool to deal with ice in the pipes.

Diameter	18 - 50 mm
Length	28 - 85 mm
Design	tempered steel, open
Water flow	17 - 400 lpm / 4 - 89 gp
Pressure	max. 300 bar / 4350 psi
Connection	1/8", 1/4", 1/2", 3/4", 1"
Usage	drains with Ø 32 - 500 mm 90°-bends (depending on the size) starting from 50 mm
Suitcase	Basic and Profiset



## SAND SHOE

Designed to clear away sand and stones. Because of their shape, they remain flat on the bottom of the sewer. Therefore they are extremely suitable to clean the bottom of wider drains. They are capable to replace many times their own weight of sand and stones. To achieve the highest efficiency, always use a sand shoe in combination with a rotating coupling.

Diameter	97 - 160 mm
Length	195 - 260 mm (without coupling)
Design	aluminium / bronze, open
Water flow	30 - 400 lpm / 7 - 89 gpm
Pressure	max. 200 bar / 2900 psi
Connection	1/2", 3/4", 1"
Usage	drains with Ø starting from 250 mm 90°-bends starting from 250 mm
Suitcase	Profiset



# USB NOZZLES

Rioned is an official dealer of USB nozzles. USB is a German manufacturer of high-quality stainless steel nozzles. The nozzles are precision engineered to ensure durability and superior cleaning performance. By using only the strongest and most durable industrial materials, the nozzles are resistant to chemicals, acids and alkalis and other mineral substances. USB nozzles are designed to clean better with less water and can also be used with recycled water.

## PRIMUS



The Primus is a highly innovative and effective nozzle, specially designed for controlled rotation and use with recycled water. The nozzle is made of hardened stainless steel and is very user-friendly and requires little maintenance. Internal parts do not need to be lubricated or replaced during the first year. Thanks to its rotating nozzle, the Primus is very suitable for removing grease, hard deposits and roots in sewer and drainage pipes.



## TURBO 0

The Turbo 0 is one of the smallest chain cutters on the market. The nozzle is made of hardened stainless steel and comes with one-piece ceramic spray heads. Despite its compact size, the Turbo 0 is very effective. The Turbo 0 uses turbine technology to deliver the highest cutting and cleaning power. Various cutting accessories make the nozzle suitable for removing roots, grease and mineral blockages. The practical storage case contains various accessories such as extra chains, cutting heads and tools for maintenance.



Turbo 0 special Case





## PIPE WOLF 3D

The Pipe Wolf 3D is a very powerful and special nozzle, perfect for removing blockages caused by organic material. The Pipe Wolf has a hardened, tapered head with sharp edges. The head rotates at about 10,000 revolutions per minute, opening almost any blockage. The Pipe Wolf comes with one-piece ceramic inserts.



## FD2

The FD2 nozzle is specially designed for cleaning semi-open or fully open drains. The ceramic inserts are placed in the nozzle at a very small angle. Because of the small angle, the water will be sprayed almost straight back. This prevents the water from splashing out of the drain. This makes the FD2 very suitable for cleaning and unblocking gutters in city centers and petrol stations.



### PRODUCT FEATURES

	Primus	Turbo O	Pipe Wolf 3D	FD2
Connection	1/2"	1/2"	1/2"	1/2"
Capacity (lpm)	From 40 lpm	From 30 lpm	From 40 lpm	40 lpm
Diameter (mm)	80 – 200 mm	75 – 150 mm	75 – 150 mm	100 mm
Dimensions (cm)	11 x 6 cm	10 x 5 cm	11 x 5 cm	12 x 5 cm
Weight (kg)	1,4 kg	0,4 kg	1,1 kg	1,2 kg
Rear jets	3	-	-	6
Front jets	1	3	6	-
Radial jets	4	-	-	-
Turbine jets	-	3	3	-



# MAXFLOW SEWER HOSE



By using the latest technology Rioned has developed a new type of lightweight high pressure sewer hose with a larger inner diameter. This optimizes the flow inside the hose and reduces pressure loss significantly without compromising the working or burst pressure.

Inside diameter	Length	Coupling
NW 5 (= 3/16")	10, 15 or 20 m	1/8" x 1/8"
NW 6 (= 1/4")	10, 15 or 20 m	1/8" ext. 3/8" int.
NW 8 (= 5/16")	10, 20 or 30 m	1/4" x 3/8"
NW 10 (= 3/8")	20, 30, 40 or 50 m	2" x 1/2"
NW 13 (= 1/2")	20, 40, 50, 60, 80, 100 or 120 m	2" x 1/2"
NW 16 (= 5/8")	80, 100 or 120 m	2" x 1/2"

## ACCESSORIES

### RIOPROTECT

This "Tiger tail hose protector" protects hoses from the sharp edges of wells and manholes. It extends the life of your valuable jetting hose considerably and eases insertion into the drain. An essential accessory for the proud owner of every jetting machine!





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## CLEAR REPORTS AND RAZOR-SHARP IMAGE



Vincent from Kanalis shares their experience with Rioned's inspection and detection systems: "We have been doing business with Rioned for years and carry out camera inspections on a daily basis. In addition to a high-pressure sewer cleaning machine and spring machines, all our vehicles are also equipped with a camera system. This allows us to check after a blockage has been cleared whether it is really gone and whether the pipe is clean."

Kanalis has more than 40 years of experience in unblocking and cleaning pipes, emptying septic tanks and performing camera inspections in Brussels and the surrounding area. "We are very satisfied with the results we have achieved with the Rioned MaxCam and FlexCam," Vincent says. "The reporting software works very well. In addition, the self-leveling camera head and razor-sharp image quality make work much easier."



# Inspection and detection

## KEEP AN EYE ON YOUR BUSINESS

Our inspection and detection machines make your work easy. Our machines are reliable, service friendly and help you to easily detect, locate and inspect the problem. Easy, safe and simple to use. If you would like to have further information visit our website or contact us directly.

### CAMERA SYSTEMS

With our camera systems you can easily detect the problem in almost any drain. A small camera for inspection in the bathroom or kitchen, or choose a big camera system for larger drains and sewers around houses and commercial premises. Every camera is suitable for a specific diameter range. They all move easily through the drains and provide you with excellent pictures. All functions, options and available camera heads differ for each camera.



## RIOSTEAM

The RioSteam is a portable flue gas device that faultlessly finds leaks. The machine is used for controlling air streams in ventilating flues and lines and to control density of chimneys. The RioSteam is very reliable, solidly built and also operator and service friendly. The tank for the liquid, which can often be vulnerable part of this type of machine, has been designed to reduce the risk of damage. With the RioSteam you can locate the problem within several minutes.

## RIOTRACK AND RIOTRACK PRO

The RioTrack is affordable and easy to use. The locator is the perfect alternative for customer who want to track power cables or transmitter sondes. Push button, clear symbols and graphic display of the signal strength on the display make the RioTrack user friendly. As from today tracking problems with tracking sondes is history.

## SANICAM

The SaniCam is a professional line of all-in one camera systems for inspection of sanitary pipes in bathrooms and kitchens.



RioTrack Pro 2

	Model 1	Model 2	Model 3
Range	Ø 16 - 50 mm, 90° bends as from 32 mm	Ø 25 - 75 mm, 90° bends as from 40 mm	Ø 50 - 150 mm, 90° bends as from 50 mm
Cable length	20 metres	20 metres	25 metres
Camera head	20 mm length, Ø 13 mm, fixed	20 mm length, Ø 20 mm, exchangeable	20 mm length, Ø 20 mm, exchangeable



SaniCam



RioTrack Pro 2



### FLEXCAM

The FlexCam is the most complete sewer camera in its class. It features a self-levelling camera, built in sonde and a daylight viewable screen. It has a detachable rod with connectors at both ends. In the event of damage the user can remove the damaged rod, install a new rod and continue working while the damaged rod is repaired. The MINA reporting software and App enhance the functionality and provide a second screen.

### MAXCAM

MaxCam is the ultimate system, suitable for pipes 70 mm up to 300 mm. The MaxCam control box is the heart of the system and is packed with innovative and helpful features to enhance user efficiency and provide everything you need to carry out a professional drainage survey. It comes pre-installed with WinCan reporting software, a 44 mm self-levelling camera head, built-in sonde transmitter and a super-bright sunlight readable LCD display.



Interchangeable control unit for MaxCam and FlexCam



MaxCam

	FlexCam	MaxCam
Range	Ø 40 - 125 mm, 90° bends as from 50 mm	Ø 70 - 300 mm, 90° bends as from 90 mm
Cable length	40 metres	60 metres
Camera head	Ø 30 mm, self levelling	Ø 44 mm, self levelling
Screen	10,4"	10,4"
Location sonde	512 Hz in camera head	512 Hz camera head
Software	MINA reporting	MINA reporting WinCan embedded
Data	32 GB HDD, USB, SD, Wifi-enabled	32 GB HDD, USB, SD, Wifi-enabled
Battery	Li-ion, up to 9 hours usage	Li-ion, up to 9 hours usage

The MaxCam and FlexCam are both compatible with the same control box.

### FIBERCAM+

The FiberCam+ is our top of the range inspection system for sewer professionals. The FiberCam+ is a compact and modular system that can be equipped with Ø 55 mm self-levelling or Ø 78 mm pan and tilt camera head. The robust stainless steel frame comes with 60 meters pushrod.



FiberCam+



# Rioned.

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