

# R.

## 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 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  $\varnothing$  160 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 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 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	160
<b>Hand tools</b>								
Type D	32-50 mm							
HandMatic	32-75 mm							
<b>Spring machines</b>								
FlexMatic+	32-75 mm							
AllRound +	40-125 mm							
Master	70-160 mm							
<b>Sectional machines</b>								
Victor	32-160 mm							
<b>High speed drain cleaners</b>								
RioFlex Mini	38-100 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



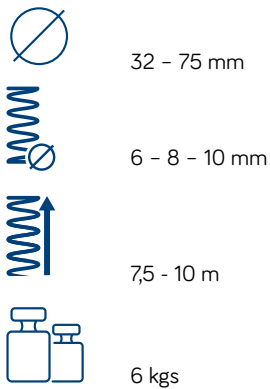
6 - 7 mm



5 - 7,5 m



1,5 kgs



## MECHANICAL 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



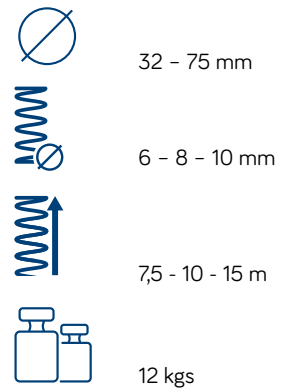
Automatic springfeed



### 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 - 160 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.



70 - 160 mm



16 - 20 mm



20 m



71 kgs



Drains up to 160 mm

TECHNICAL SPECIFICATIONS	
Motor	230 Volt / 0,45 kW
Ø Drain/sewer	70 mm - 160 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





# R.



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 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

## MECHANICAL 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:

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 (90° bends as from 40 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 - 100 mm



8 mm (12 mm cover)



5 m



4 kg

## MECHANICAL 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 100 mm Chain Knockers	Set of tools: 40 mm Chain Knockers 50 mm Pipemaster Chain Knockers 75 mm Pipemaster Chain Knockers 100 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 - 100 mm
Ø Spring/cover	8 mm (12 mm cover)
Length spring	5 m
Weight	4 kg



## MECHANICAL 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**  
F or 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.