

USER'S MANUAL

VICTOR 2000



02
Edition: Tuesday 3 April 2012
Date:

RIONED
P.O. Box 5070
5004 EB Tilburg
The Netherlands
Telephone : +31 13 5479100
Fax : +31 13 5479104

Rioned

© Copyright 04/12 Rioned/RIOR B.V.Tilburg- Nederland.

All rights reserved. No part of this publication may be copied or published by means of printing, photocopying, microfilm or otherwise without the prior written consent of **RIONED**. This restriction also holds for the corresponding drawings and diagrams.

RIONED has the right to change parts of the machine at any time without any prior or direct warning to the client. Similarly, the contents of this manual can also be changed without any prior warning.

This manual is to be used only for this machine.

For extra information on adjustments, maintenance and repair, contact the technical department of your dealer.

Foreword

This user's manual is a manual for the professional user.

This user's manual has the purpose to control the machine in a safety manner and must be saved with the machine.

The photos and drawings help you understand the text easier.

First the user's manual gives you an overview of the most important safety aspects. Then we explain how the machine is built up and the global working of the machine.

Chapter "Technical specifications" gives you information about the working characteristics, performance under normal use and construction specifications.

"Control" is the next chapter. This chapter explains how to use the machine systematically.

In the chapter "Maintenance", the user can do small maintenance on the machine.

Chapter "Trouble shooting" has the purpose to solve simple defects.

With the "Exploded views" you can order original spare parts, are also useful for mounting, and disassemble the machine.

Finally gives the chapter "Appendix" information about electrical and/or hydraulic connections.

TABLE OF CONTENTS

1	INTRODUCTION	7
1.1	Use.....	7
2	SECURITY.....	9
2.1	Instruction indications in this manual.....	9
2.2	Descriptions security measures	9
2.3	Personnel protection outfit	9
2.4	Warnings.....	9
2.5	Personnel qualification and education.....	10
2.6	Danger that can occur if the security regulations aren't observed	10
2.7	Working safely	10
2.8	Security regulations for the user and technical service	10
2.9	Security regulations for maintenance, inspection and mounting activities	10
2.10	Making changes and fabricate spare parts.....	10
2.11	Improper use.....	10
2.12	Safety instructions	11
3	TECHNICAL SPECIFICATIONS	13
3.1	General	13
3.2	Engine.....	14
4	CONSTRUCTION.....	15
5	CONTROL	17
5.1	Transport.....	17
5.2	Controls	17
5.3	Before unblocking	18
5.4	Unblocking	18
6	MAINTENANCE.....	19
6.1	General	19
6.2	Cleaning the clamping system.....	19
6.3	Lubrication	19
6.4	Security guide hose with adapter.....	19
6.5	Extensive periodical maintenance	19
6.6	Maintenance schedule	20
7	ACCESSORIES	21
7.1	Auxiliaries that can be coupled:	21
8	EXPLODED VIEWS.....	25
8.1	Exploded view.....	26
8.2	Bill of material Viktor 2000	27
8.3	Exploded view Adaptor drum 8 mm	28
8.4	Exploded view Adaptor drum 10 mm	29
9	APPENDIX.....	31

9.1	EC declaration Of Conformity For Machinery	31
9.2	Sales Managers.....	32
9.3	Sound level report.....	33
9.4	Electric schema.....	34
10	INDEX	35

1 INTRODUCTION

RIONED wishes to thank you for your purchase of the RIONED drain and sewer-clearing machine. We recommend that you read this manual thoroughly and see that the machine is handled and maintained in the proper manner. If your machine should give trouble and need servicing, when you want to order parts, or if you have any questions, contact your RIONED dealer.

The machine is built by:

RIONED

P.O. Box 5070
5004 EB Tilburg
The Netherlands
Telephone : +31 13 5479100
Telefax : +31 13 5479104

Your machine is specifically designed to clean drain- and sewer pipes with a diameter from \varnothing 32 mm to \varnothing 250 mm by using specially manufactured cleaning springs with a diameter of \varnothing 16 mm, to \varnothing 22 mm diameter.

The machine may only be used by authorized personnel.

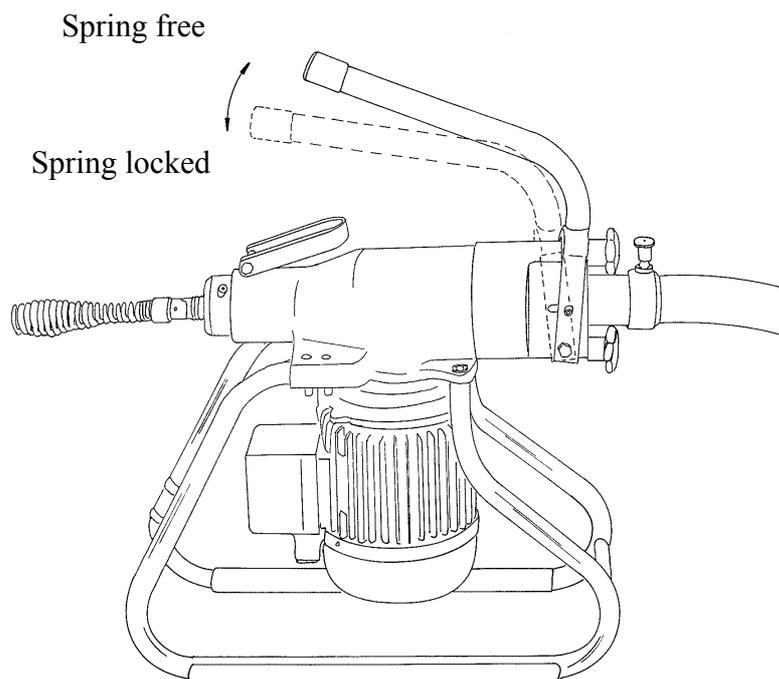
The machine can not be used in an explosive environment.

Fill the security guide hose only with springs we describe in this manual.

In this manual you will find all necessary information concerning operations and maintaining your machine. If handled properly, your machine is guaranteed according the general delivery conditions.

1.1 Use

The main shaft is being driven by the electrical motor by means of a gear transmission inside the housing. The main shaft is connected to the clamping system. By pushing the control lever downwards, the two clamps grips on the spring. Now the spring starts turning. By releasing the control lever, the spring stops turning. The spring can now be transported forwards and backwards.



2 SECURITY

Be responsible for other people when you are working with this machine.

This manual contains instructions for fundamental conditions that must be followed by use and maintenance of this machine.

That is why it is necessary that authorised and qualified personnel must read the user's manual and the user's manual must always be available with the machine. Near the general regulations in this chapter, you must also follow the security regulations in the other chapters.

2.1 Instruction indications in this manual

The in this manual containing security instructions, which are dangerous if they are not obeyed, are marked with general security signs.



Security sign DIN 4844-W9.

2.2 Descriptions security measures

- Emergency stop
This machine is equipped with an emergency stop. By operating the emergency stop, the machine will stop immediately. Do not use this button for normal stopping. Only use it when dangerous situations occur. After use, remove the danger and pull the emergency stop in order to be able to start up again. Make sure the emergency stop can always be reached.
- Security covers
This machine is equipped with several security covers over parts that are rotating. It is forbidden to remove these security covers during operating this machine. You can only remove them if there is maintenance on the machine. Stop the machine and take the plug out of the wall socket.

2.3 Personnel protection outfit

- Protection looking glasses
- Gloves (Recommended)

2.4 Warnings

- Never take the spring when turning.
- Do not let the spring turn outside (swing of the spring).
- Take care of a stable disposition of the machine.
- Never block the control lever, unless this is mentioned.
- Do not wear cloth that hangs loose.
- Please note safety instructions (*See Chapter 2.12 "Safety instructions" page: 11*).
- Always use a wall socket that is earthed.
- Never start the machine with the control lever downwards.
- Never touch the spring if it is rotating. Not even with auxiliaries or other tools.
- Never let the spring rotate outside a sewer, drain or pipe.
- Always use the security guide hose or the adapter drum.

Make sure the machine is stable during operation.

Do not let the machine operate without supervision.

2.5 Personnel qualification and education Personnel that use, maintain and inspect the machine must have the right qualifications for this job. Responsibility and authorisation of the personnel and the supervision on the personnel must be embedded. If the knowledge is not present, the user must provide for the necessarily education.

2.6 Danger that can occur if the security regulations aren't observed If the security regulations are not observed, danger can occur for personnel and for the environment. No amends are given if the regulations are not observed.

If the regulations are not observed, this can results in:

- Failure of important functions of the machine.
- Failure of prescribes methods for maintenance.
- Exposure of persons to dangers of electrical or mechanical failures

2.7 Working safely The in this manual named security prescriptions, the national prescriptions to prevent accidents and the internal labour, company and security prescriptions must be followed by the user.

2.8 Security regulations for the user and technical service

- Protections of moving parts (for example couplings) may not be removed if the machine is working.
- Leakage of dangerous mediums must disposed in a manner that there is no danger for the personnel and environment. Statutory regulations must be followed.
- Danger caused by electricity must be excluded.

2.9 Security regulations for maintenance, inspection and mounting activities

- The user sees to it that qualified technicians do all maintenance, inspection and mounting activities. They must study the manual thoroughly.
- Maintenance may only be done when the machine is not functioning and the plug is out of the wall socket.
- The in the user's manual mentioned handling to stop the machine must be notified.
- Directly after maintenance of the machine, all the security and protection facilities must be functionally.
- Before starting the machine again, you must follow the instructions correctly.

2.10 Making changes and fabricate spare parts Changes to the machine are only permitted if Rioned has given written authorisation. The use of original spare parts and accessories are for the safety necessary. Rioned is not responsible for injuries or damages if other spare parts are used.

2.11 Improper use The security during working with the machine is only guaranteed if the use of the machine is conform the user's manual. The limits that are written in chapter "Technical Specifications" and "Appendix" may never be overstept.

If the machine does not work or give troubles, it is forbidden to work further with the machine. Telephone your dealer or the technical department of Rioned

Telephone: +31 (0) 13-5479100

This manual contains all the necessary information concerning control and maintenance. If the device is positioned correctly, properly controlled, and regularly maintained, a warranty will be given according to the general conditions of delivery. However, should it arise that the control and maintenance procedures are not diligently followed, the warranty will become invalid.

Warning: When using electric tools, basic safety precautions should always be followed to reduce the risk of fire, electric shock, and personal injury, including the following. Read all these instructions before attempting to operate this product and save these instructions.

For safe operation:

1. **Keep working area clean.**
Cluttered areas and benches invite injuries.
2. **Consider working area environment.**
Don't expose electric tools to rain. Don't use electric tools in damp or wet locations. Keep working areas well lit. Do not use tool in presence of flammable liquids or gases.
3. **Guard against electric shock.**
Prevent body contact with grounded surfaces. For example: pipes, radiators, ranges, refrigerator enclosures.
4. **Keep children and visitors away.**
Do not let visitors contact tool or extension cord. All visitors should be kept away from work area.
5. **Store idle tools.**
When not in use, tools should be stored in dry, and high or locked place - out of reach of children.
6. **Don't force tool.**
It will do the job better and safer at the rate for which it was intended.
7. **Use right tool.**
Don't force small tool or attachment to do the job of a heavy-duty tool. Don't use tool for purpose not intended - for example - don't use circular saw for cutting tree limbs or logs.
8. **Dress properly.**
Do not wear loose clothing or jewellery. They can be caught in moving parts. Rubber gloves and non-skid footwear are recommended when working outdoors. Wear protective hair covering to contain long hair.
9. **Use safety glasses.**
Also use face or dust mask if cutting operation is dusty.
10. **Don't abuse cable.**
Never carry tool by cord or yank it to disconnect from receptacle. Keep cord from heat, oil, and sharp edges.
11. **Secure work.**
Use clamps or a vice to hold work. It's safer than using your hand and it frees both hands to operate tool.
12. **Don't overreach.**
Keep proper footing and balance at all times.
13. **Maintain tools with care.**
Keep tools sharp ~ clean for better and safer performance. Follow instructions for lubricating and -changing accessories. Inspect tool cords periodically and if damaged, have repaired by authorized service facility. Inspect extension cords periodically and replace if damaged. Keep handles dry, clean, and free from oil and grease.
14. **Disconnect tools.**
When not in use, before servicing, and when changing accessories, such as blades, bits, cutters.
15. **Remove adjusting keys and wrenches.**
Form habit of checking to see that keys and adjusting wrenches are removed from tool before turning it on.
16. **Avoid unintentional starting.**
Don't carry plugged-in tool with finger on switch. Be sure switch is off when plugging in.
17. **Outdoor use extension cords.**
When tool is used outdoors, use only extension cords intended for use outdoors and so marked.
18. **Stay alert.**
Watch what you are doing. Use common sense. Do not operate tool when you are tired.

19. Check damaged parts.

Before further use of the tool, a guard or other part that is damaged should be carefully checked to determine that it will operate properly and perform its intended function. Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting, and any other conditions that may affect its operation. A guard or other part that is damaged should be properly repaired or replaced by an authorized service centre unless otherwise indicated elsewhere in this instruction manual. Have defective switches replaced by authorized service centre. Do not use tool if it cannot be turned on and off by the switch.

20. Warning.

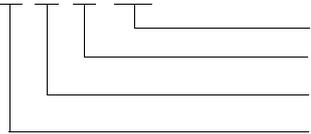
The use of any other accessory or attachment other than recommended in this operating instruction or the catalogue may present a risk of personal injury and could invalidate any guarantee.

21. Tool repairing by expert only.

This electric tool is in accordance with the relevant safety rules. Repairing of electric tools may be carried out only by experts, otherwise it may cause considerable danger for the user.

3 TECHNICAL SPECIFICATIONS

3.1 General

Description (<i>symbol</i>)	Unit
Type	: Viktor 2000
Total length (<i>l</i>)	: 0,542 m
Total height (<i>h</i>)	: 0,645 m control lever up 0,520 m control lever down
Total width (<i>b</i>)	: 0,250 m
Weight (dry) (<i>m</i>)	: 22,5 kg
Spring length (<i>l</i>)	: 2 m and 4 m
Maximum spring length (<i>l</i>)	: 60 m, spring \varnothing 22 mm 40 m, spring \varnothing 16 mm
Spring diameters without adaptor drum (<i>d</i>)	: \varnothing 16 mm and \varnothing 22 mm
Spring diameters with adaptor drum (<i>d</i>)	: \varnothing 8 mm and \varnothing 10 mm
Springs suitable for sewer diameter (<i>d</i>)	: \varnothing 32 mm to \varnothing 250 mm
Place type plate	: Side engine
Place frame number: 20 XX XX XXX	: on house by bow
	Following number Year of construction Month Viktor 2000
Measured sound value	: <i>see chapter 9.3 Sound level report page: 33</i>
Position	: <i>see chapter 9.3 Sound level report page: 33</i>
In and out speed spring (<i>v</i>)	: Manual
Rotation direction	: Left and right
Number of revolutions main axle (<i>n</i>)	: 750 rpm
Year of construction (<i>month/year</i>)	: See type plate on frame

3.2 Engine

Description (<i>symbol</i>)	Unit
Type	: Flender ATBauknecht - Loher
Number of revolutions (<i>n</i>)	: 1380 rpm.
Power (<i>P</i>)	: 0,750 kW 1 HP
Voltage (<i>U</i>)	: 230 V according to IEC38
Frequency (<i>f</i>)	: 50 Hz.
Current (<i>I</i>)	: 5,1 A
Condensator	: CB40 μ F400 VDB
Security	: Thermal
Cos φ	: 0,94
Isolation class	: IP 54

4 CONSTRUCTION

The machine contains the following main parts:

Illustration 4.1

- A Electric engine
- B Housing
- C Star knobs
- D Control lever
- E Bow for control lever
- F Switch
- G Clamping system housing
- H Frame
- I Place frame number

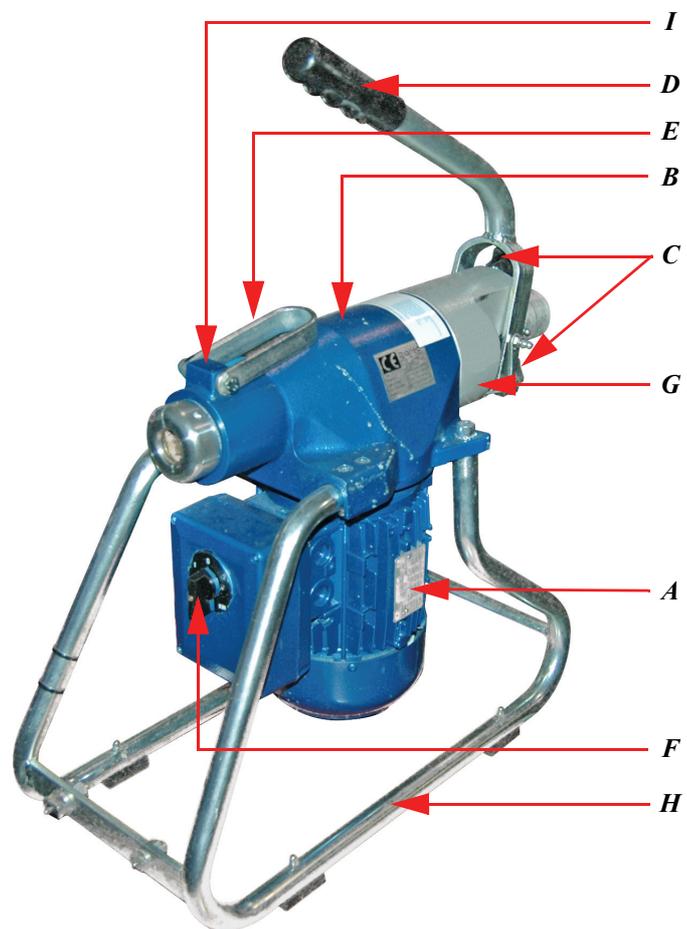


Illustration 4.1
Spring cleaning machine Viktor
2000

5 CONTROL



If you control, maintain or inspect the machine, you must have the right qualifications for this job. If you do not have the necessary knowledge, you may not use the machine. Further, you must convince yourself that you understand this manual thoroughly.

5.1 Transport

See to it before you transport the machine:

- That the plug is out of the wall socket.
- The spring is out of the machine.
- The security guide hose is dismantled.

You can use the control lever as a carrying handle. You must hook the bow over the control lever.

5.2 Controls

1. Star knob:
By loosening the two star knobs, you can dismantle the clamping system.
2. Control lever:
By pushing the control lever downwards, the spring starts turning. When you release the control lever or push it upwards, the spring stops turning.
3. Switch:
With this you start, stop and turn to the other direction the mainaxle of the machine.
4. Emergency stop (= Switch):
By operating this stop, the machine will stop.. Use it when dangerous situations occur. After use, remove the danger. Make sure the emergency stop can always be reached.

5.3 Before unblocking

1. Place the machine as close as possible near the drain or sewer to be cleaned.
2. Connect the security guide hose to the clamping system.
3. Choose a $\varnothing 16$ mm spring for drains from $\varnothing 40$ to $\varnothing 100$ mm. Choose a $\varnothing 20$ mm spring for drains from $\varnothing 100$ to $\varnothing 250$ mm.
Choose the 8 mm or 10 mm adapter drum for drains with small diameter.



Illustration 5.3.1
Viktor with adaptor drum

4. Put the spring into the machine and into the security guide hose.
5. Connect the desired cleaning aid to the spring (*see chapter 7.1 Auxiliaries that can be coupled: page: 21*).
6. Feed the spring in the drain or sewer opening until you notice any resistance.
7. Couple, if necessary, a second spring after the first spring if the blockage is not reached
You can couple the end of the first spring at the coupling on the front of the frame when you put the second spring into the machine. You prevent this way that the first spring disappears into the sewer.
8. See to it that there is $\pm 0,5$ m spring between the machine and the inlet opening.

5.4 Unblocking



Attention!
Only feed the spring when the motor is switched off.

1. Release the spring.
2. Turn the switch to start the engine.
3. Push the control lever downwards. The spring feed his way into the dirt.
4. Release the control lever, pull the spring and push the control lever. The spring shall works his way further into the dirt. Repeat this movement until the blockage is disappeared or the end of the spring is in sight.
5. If the end of the spring is in sight, couple then a new spring on the end from the spring that is already in the sewer. Do this till the blockage is disappeared.
6. Is the pipe clean, turn the direction of the spring. Turn the switch. The spring will now, if the control lever is downwards, come out of the pipe.
7. Move, if necessary, several times the spring back and forwards at the place of blockage.

If slip occurs during pushing the control lever, pull immediately the control lever upwards. Change the rotation direction and push the control lever downwards again.

If the slip does not disappear, the spring is locked in the pipe and must be pulled out or the clamping system is damaged and must be replaced.

Clean the clamping system after every unblocking. Protect the clamping system against oxidation. Use the special spray. The spray can also be used to protect the springs against oxidation.

6 MAINTENANCE



Warning!

Always stop the engine and take the plug out of the wall socket before serving or repairing the machine.

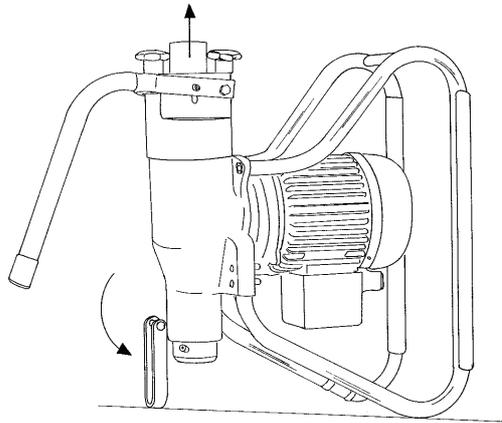
6.1 General

The machine is maintenance free except the clamping system.

Use only original spare parts.

6.2 Cleaning the clamping system

The clamping system is outside the machine. By loosening the two star knobs, you can dismantle and clean the clamping system.



*Illustration 6.2.1
Position spring
machine during dis-
mantling the clamp-
ing system.*

1. Position the machine (*Illustration 6.2.1*). The bow must be fully to the back.
2. Dismantle the clamping system. You can do this by loosening the two star knobs.
3. Lift the clamping system.
4. Now you can easily remove the clamps and clean it.
5. Check the clamps for damage.
6. Mount everything in opposite order.

6.3 Lubrication

Grease the pressure cone regular (*see Chapter 8.1 Exploded view. page: 26*). Use good quality multipurpose grease.

6.4 Security guide hose with adapter

The security guide hose takes care that the spring can not move freely. Keep the hose clean at the inside. This prevents extra rust on the spring.

Keep the machine clean, it will extend the life of the machine.

6.5 Extensive periodical maintenance

Have the machine checked and maintained from time to time by the technical service of your dealer. In this way, long life and quality will be guaranteed.

6.6 Maintenance schedule

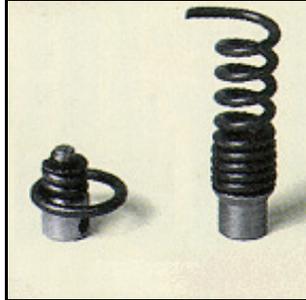
Description	Interval
Cleaning the clamping system	: Every time before using the machine and by strong pollution.
Checking clamps	: Once a month. Change by wastage.
Cleaning the body of the machine	: Weekly or by strong pollution.
Lubrication moving parts	: Every 50 hours or at least once every 6 months.

7 ACCESSORIES

7.1 Auxiliaries that 1. can be coupled:

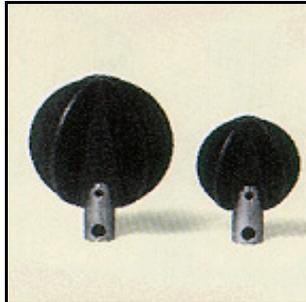
Retrieving hook:

To remove obstacles from pipes. For example: cloth, rags, napkins, sheets, etc.



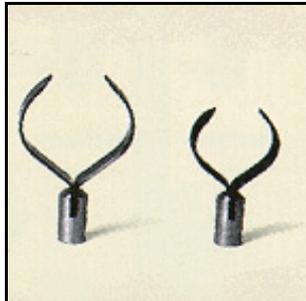
2. 4-blade drill and 6-blade drill:

To mill pipes that are clogged with frying fat.



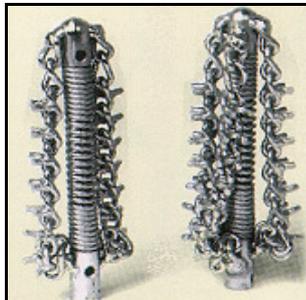
3. Cutting knife:

To mill big pipes. The knife diameter can be chosen for the right kind of sewer.

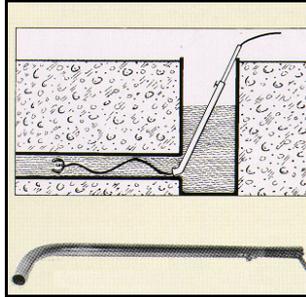


4. Chain head:

To clean steel and iron pipes.



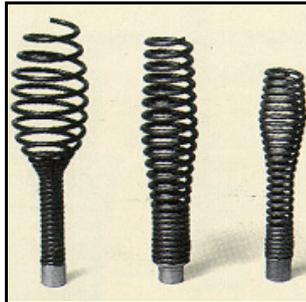
5. Inlet guide tube:
To guide the spring to difficult places.



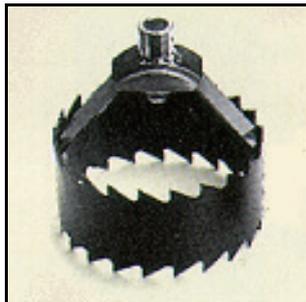
6. Reparation and quick couplings:
To connect springs or to repair broken springs.



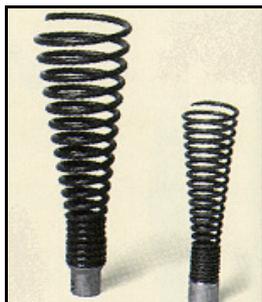
7. Drilling head:
For light unblocking in polluted pipes.



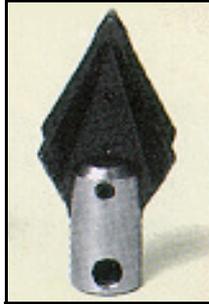
8. Root cutter:
To saw tree roots.



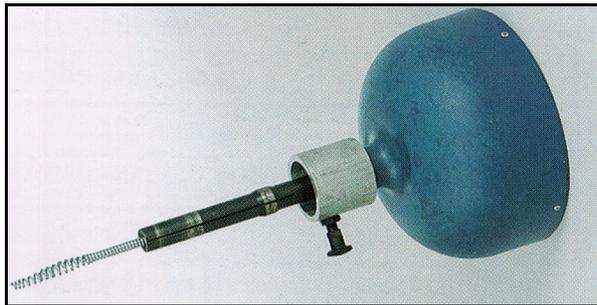
9. Funnel drill:
For long bended pipes.



10. Pointed head:
For pipes coked with lime or uric stones.



11. Adaptor drum:
The 8 mm and 10 mm springs are working in the Viktor by means of a adaptor drum.
With these springs you can unclog small pipes.



12. Assembling tools:
To mount and dismantle spring couplings and auxiliaries.

8 EXPLODED VIEWS

8.1 Exploded view.

Pos.	Aant.	Eenh.	Artikeelnr.	Benaming.
1	1	st.	126043000	verwoppling met M10
2	1	st.	126044000	verwoppling met M12
3	1	st.	127601006	hok Victor
4	1	st.	127601006	hok Victor
5	1	st.	127601007	hok bij draaiing Victor 2000
6	1	st.	127601008	dallinger
7	1	st.	127601016	arm
8	1	st.	127601016	arm
9	1	st.	127601018	pen liembekenhuis
10	2	st.	127601019	brander
11	1	st.	127601044	bus
12	1	st.	127601047	bus
13	1	st.	127601048	borde
14	1	st.	127601048	borde
15	1	st.	127601051	contouring liembekenhuis
16	1	st.	127601051	contouring liembekenhuis
17	1	st.	127601051	contouring liembekenhuis
18	1	st.	127601052	contouring liembekenhuis
19	1	st.	126043000	verwoppling met M10
20	1	st.	126044000	verwoppling met M12
21	1	st.	126044000	verwoppling met M12
22	1	st.	126044000	verwoppling met M12
23	1	st.	126044000	verwoppling met M12
24	1	st.	126044000	verwoppling met M12
25	1	st.	126044000	verwoppling met M12
26	1	st.	126044000	verwoppling met M12
27	1	st.	126044000	verwoppling met M12
28	1	st.	126044000	verwoppling met M12
29	1	st.	126044000	verwoppling met M12
30	1	st.	126044000	verwoppling met M12
31	1	st.	126044000	verwoppling met M12
32	1	st.	126044000	verwoppling met M12
33	1	st.	126044000	verwoppling met M12
34	1	st.	126044000	verwoppling met M12
35	1	st.	126044000	verwoppling met M12
36	1	st.	126044000	verwoppling met M12
37	1	st.	126044000	verwoppling met M12
38	1	st.	126044000	verwoppling met M12
39	1	st.	126044000	verwoppling met M12
40	1	st.	126044000	verwoppling met M12
41	1	st.	126044000	verwoppling met M12
42	1	st.	126044000	verwoppling met M12
43	1	st.	126044000	verwoppling met M12
44	1	st.	126044000	verwoppling met M12
45	1	st.	126044000	verwoppling met M12
46	1	st.	126044000	verwoppling met M12
47	1	st.	126044000	verwoppling met M12
48	1	st.	126044000	verwoppling met M12
49	1	st.	126044000	verwoppling met M12
50	1	st.	126044000	verwoppling met M12
51	1	st.	126044000	verwoppling met M12
52	1	st.	126044000	verwoppling met M12
53	1	st.	126044000	verwoppling met M12
54	1	st.	126044000	verwoppling met M12
55	1	st.	126044000	verwoppling met M12
56	1	st.	126044000	verwoppling met M12
57	1	st.	126044000	verwoppling met M12
58	1	st.	126044000	verwoppling met M12
59	1	st.	126044000	verwoppling met M12
60	1	st.	126044000	verwoppling met M12

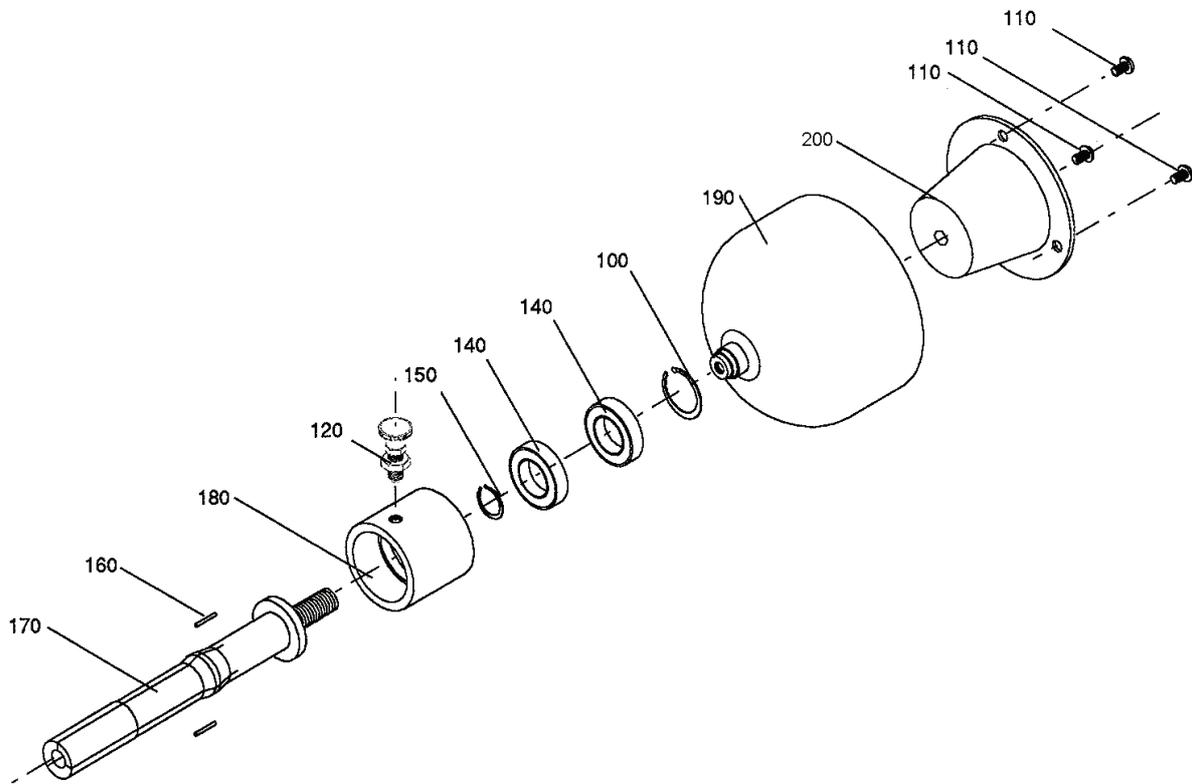
Pos.14, pos.17 en pos.19 lijmen volgens lijminstructie

Benaming: Victor
 Dismanteling: Wizzigingen alleen in CAD
 Ctek:z. AVG
 Datum: 06-05-19
 Tek.no.: 276.002.000 /05
 Formaat: A-2
 Tekenfabriek: 1. 6551 HJ Galke
 telefoon 015-354 98 09 Holland

8.2 Bill of material Viktor 2000

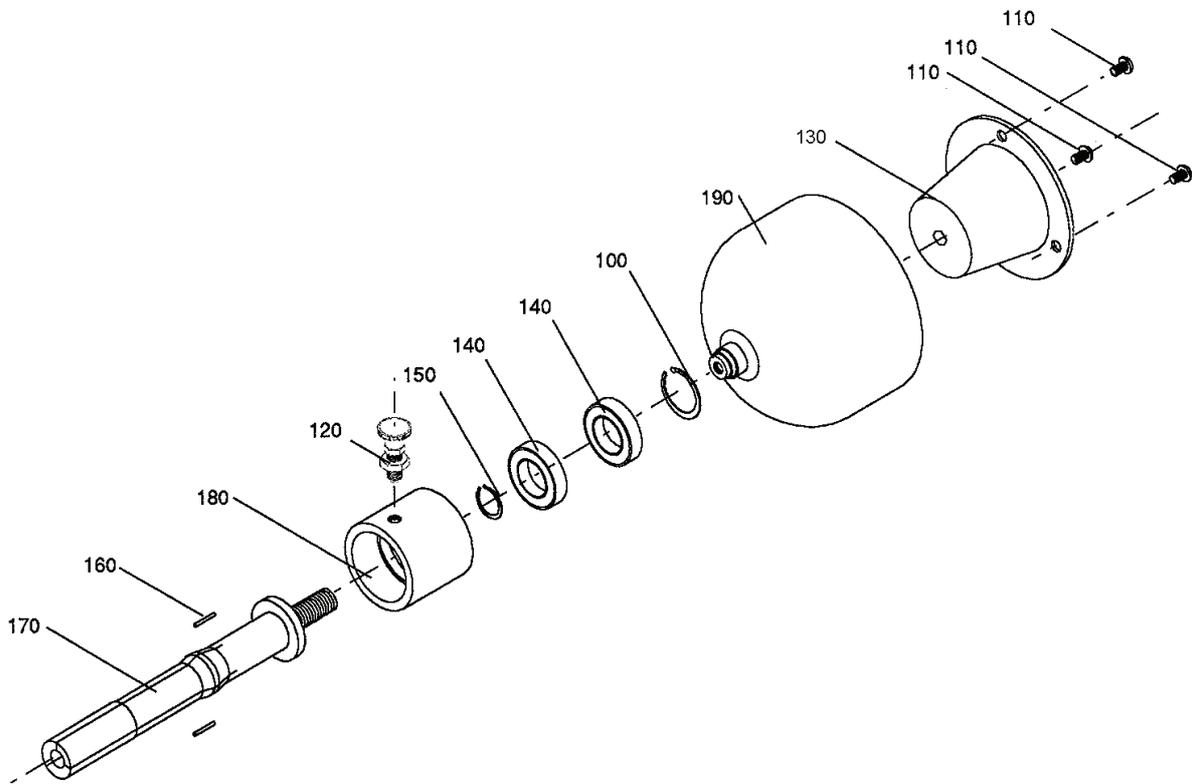
Pos.	Aant.	Eenh.	Artikelnr.	Benaming.
1	1	st	12600430010	veerkoppeling mnl M10
2	1	st	12600440010	veerkoppeling mnl M12
3	1	st	13276001004	drukkring
4	1	st	13276001006	Huis Victor
5	1	st	13276001007	huls tbv drukkring Victor 2000
6	1	st	13276001008	sluitmoer
7	1	st	13276001012	frame victor
8	1	st	13276001016	grendel schakelhefboom
9	1	st	13276001018	gaffel
10	2	st	13276001019	Pen klembekkenhuis
11	2	st	13276001033	torsieveer
12	1	st	13276001044	smeerbout Victor
13	1	st	13276001047	bus
14	1	st	13276001048	hoofdas
15	1	st	13276001049	centreerring klembekhuis
16	1	st	13276001050	borgring tandwiel
17	1	st	13276001051	kroonwiel
18	1	st	13276001052	pignon 13T
19	1	st	13280001007	conus
20	1	st	13280001014	klembekken set
21	1	st	13280001015	drukconus
22	1	st	13280001016	klembekkenhuis
23	1	st	13280001017	slangtule
24	1	st	13280001018	slangenstop
25	1	st	13280001020	glijlager
26	1	st	30012000011	handvat
27	340	mm	30090002022	sleeubuisprofiel
28	340	mm	30090002022	sleeubuisprofiel
29	2	st	30102048010	sterknop M10
30	1	st	30500010021	vergrendelknop
31	1	st	31025500030	seegerring A30 DIN471
32	1	st	31025500035	seegerring A 35 DIN 471
33	3	st	31027000010	tandveerring M10 DIN 6798 vz
34	1	st	31027000012	tandveerring M12 DIN 6798 vz
35	4	st	31029000008	veerring M8
36	2	st	31035500008	sluitring M8 DIN 125a
37	4	st	32201008020	bout M8 x 20
38	1	st	32201008050	bout M8 x 50
39	1	st	32202008100	Zeskantbout M8 x 100 DIN 931
40	1	st	32206000010	moer M10 DIN 934
41	1	st	32206000012	moer M12
42	4	st	32207200006	dopmoer M6
43	2	st	32209005025	schroef binnenzeskant M5 x 25
44	1	st	32209006025	schroef binnenzeskant M6x25
45	4		32209006035	schroef 90° verz. M6 x 35
46	1	st	32209008030	schroef binnenzeskant M8x30
47	2	st	32209010020	schroef binnenzeskant M10 x 20
48	1	st	32211006005	imbus stelschroef M6 x 5
49	2	st	32213000008	zelfborgende moer M8
50	1	st	32218006020	cilinderkopschroef M6 x 20
51	1	st	32276001046	laagbolkopflensschroef
52	4000	mm	42515452707	zuigpersslang 40 x 49
53	1	st	43060026038	wormslangklem 26 - 38 mm
54	1	st	45000206007	kogellager 6007 2RS
55	1	st	45000226006	kogellager 6006 2RS
56	1	st	45006051106	axiaal kogellager 51106
57	2	st	64072180006	smeernippel 180 gr m 6
58	1	st	85050500310	elektromotor Victor Neri/unidrive
59	1	st	87802625007	oliekeerring 62 x 50 x7
60	1	st	13276001047	borgbustandwiel

**8.3 Exploded view
Adaptor drum 8
mm**



Pos	Order number	Number	Description 1	Description 2
100	31.025.500.150	1	LOCK RING J 50 DIN 472	
110	32.214.005.008	3	SCREW	M 5 X 8 DIN 964
120	30.500.010.021	1	LOCKING DEVICE GN 617 AK	
140	45.000.061.807	2	BEARING 61807 35 X 47 X 7	
150	31.026.072.140	1	LOCK RING R 72140 DIN 905	
160	73.045.003.032	2	PIN 3 X 32 DIN 1481	
170	13.276.001.031	1	SPRING GRIP	8MM.
180	13.276.001.029	1	HOUSE SPRING	
190	13.250.001.017	1	DRUM EMPTY	
200	05.105.807.019	1	BACK DRUM PVC	

**8.4 Exploded view
Adaptor drum 10
mm**



Pos	Order number	Number	Description 1	Description 2
100	31.025.500.150	1	LOCK RING J 50 DIN 472	
110	32.214.005.010	3	SCREW	M 5 X 10 DIN 964
120	30.500.010.021	1	LOCKING DEVICE GN 617 AK	
130	05.105.807.019	1	BACK DRUM PVC	
140	45.000.061.807	2	BEARING 61807 35 X 47 X 7	
150	31.026.072.140	1	LOCK RING R 72140 DIN 905	
160	73.045.003.032	2	PIN 3 X 32 DIN 1481	
170	13.276.001.030	1	SPRING GRIP	10 MM.
180	13.276.001.029	1	HOUSE SPRING	
190	13.250.001.017	1	DRUM EMPTY	

9 APPENDIX

9.1 EC declaration Of Conformity For Machinery RIOR B.V. / RIONED
Centaurusweg 45, Tilburg, The Netherlands,

Herewith declares that:

Spring cleaning machine Victor 2000,

- is in compliance with the Machinery Directive (2006/42/EC);
- is in conformity with the provisions of the following other EEC directives:
2004/108/EC, 2006/95/EC
- the following harmonized standards have been applied:

NEN-EN-ISO 12100-1, NEN-EN-ISO 12100-2, NEN-EN-ISO 13850,
NEN-EN-ISO 13857, NEN-EN-349, EN 61029-1 and EN 60204-1

Tilburg, The Netherlands, Tuesday 3 April 2012

A handwritten signature in black ink, appearing to read 'J. Pieters', written over a horizontal line.

J. Pieters
Managing Director

9.2 Sales Managers

EXPORT

D.Maas / H. de Laat
Centaurusweg
5015 TC Tilburg
Tel.: +31 13-547 91 00
Fax: +31 13-547 91 04

REPAIR

THE NETHERLANDS

Rioned
Centaurusweg 45
5015 TC Tilburg
Tel.: +31 13-547 91 00
Fax: +31 13-547 91 04

9.3 Sound level report

Results of the sound level measurements “Viktor 2000”.

Tools: Realistic 42-3019 sound level meter
 Accuracy: ± 2 dB(A) at a sound level of 114dB(A)
 Frequency range: 500 - 10.000 Hz, curve A
 Response: Slow

Measuring positions “Viktor 2000”:

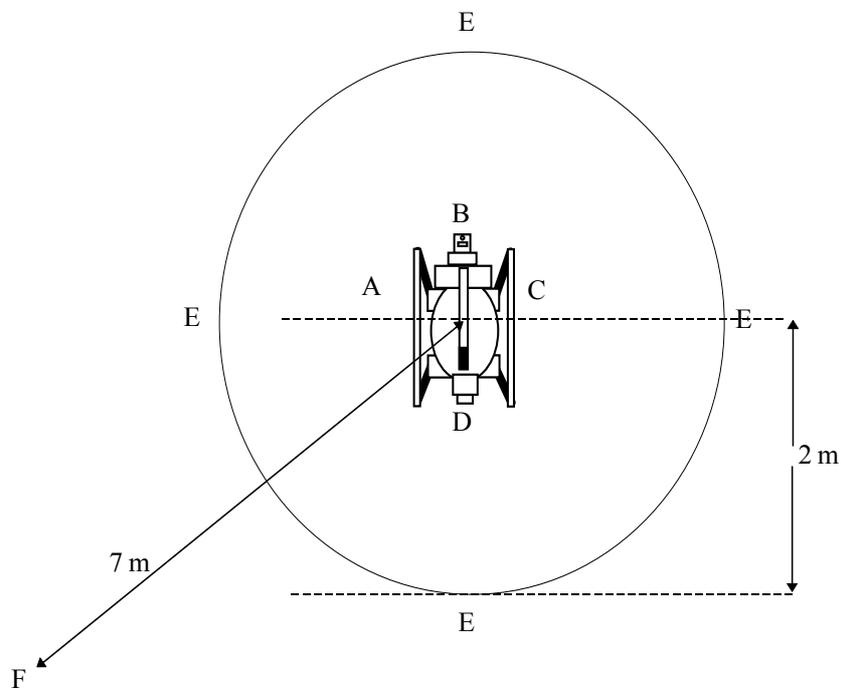
All the measure points are approx. 1,60 m above the ground and are representative for the circumstances by use of this machine.

Measured spring cleaning device: **Viktor 2000**

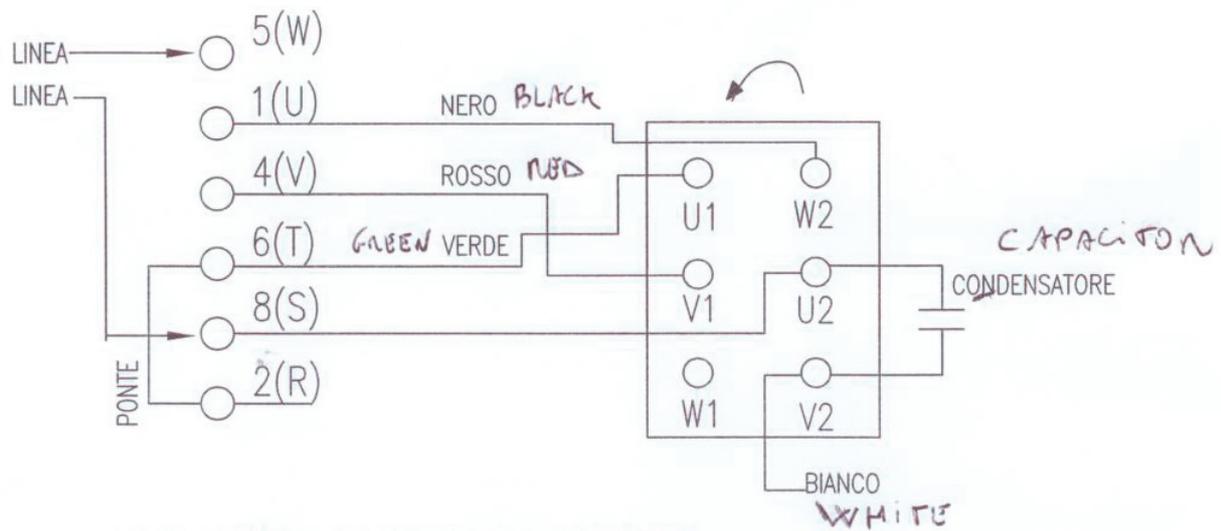
Date : Monday 10 March 1997

Position	Description	Sound level			
		Control lever up without a spring	Control lever down without a spring	Control lever up with spring	Control lever down with spring
A	Left	80	76	83	78
B	Front	79	75	82	78
C	Right	82	76	83	80
D	Back	80	75	84	80
E	at 2 m (average)	-	-	74	-
F	at 7 m (average)	-	-	<70	-

Units in dB(A)



9.4 Electric schema



N.B. SENZA PONTI IN MORSETTIERA

10 INDEX

Numerics

4-blade drill 21
6-blade drill 21

A

accessories 10
adaptor drum 23
adaptor drum 18, 23
assembling tools 23

C

chain head 21
clamping system 7, 17, 18,
..... 19
clamps 19
control lever 17
control lever 7, 17, 18
couplings 22
cutting knife 21

D

dangerous situations 17
drilling head 22

E

electrical motor 7
emergency stop 9, 17
exposure 10

F

failure 10

frying fat 21
funnel drill 22

G

general conditions of delivery 10
general security signs 9
gloves 9
grease 19

I

injuries 10
inlet guide tube 22
iron pipes 21

L

looking glasse 9

M

main parts 15
main shaft 7
mechanical failures 10

O

original spare parts 10
oxidation 18

P

plug 10, 17
pointed head 23
press button "green" 17
pressure cone 19
protection facilities 10
protection looking glasses .. 9

Q

qualifications 10

R

responsability 10
responsible 9
retrieving hook 21
rioned 10, 19
root cutter 22
rust 19

S

sales managers 32
security covers 9
security guide hose 17, 18, 19
sewer 18
slip 18
spare parts 19
spray 18
spring 18
spring free 7
spring locked 7
star 17
star knob 19
start the engine 18
start the machine 17

T

telephone 10
the machine is built by 7

W

wall socket 9, 10, 17
warning 19
warranty 10

