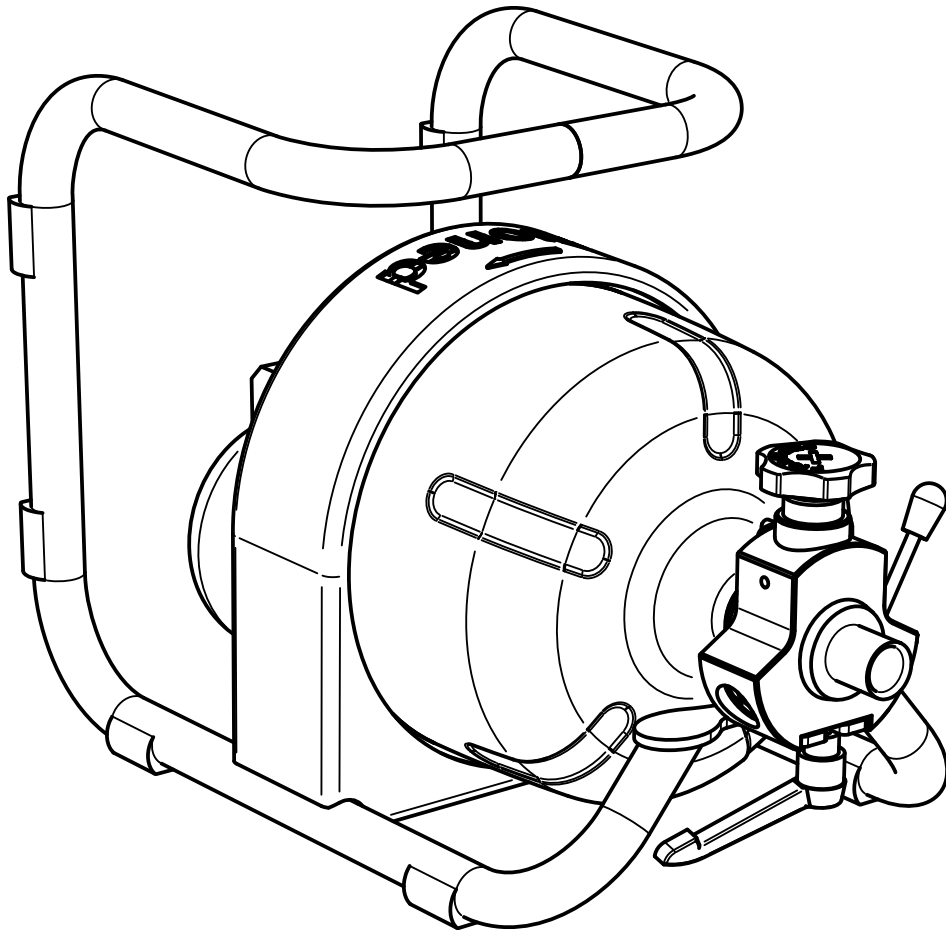


USER'S MANUAL

FLEXMATIC+



03
Edition: Tuesday 6 August 2013
Date:

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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.

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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

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Telefax : +31 13 5479104

Your machine is specifically designed to clean drain- and sewer pipes with a diameter from $\varnothing 20$ mm to $\varnothing 75$ mm by using specially manufactured cleaning springs with a diameter of $\varnothing 8$ - $\varnothing 10$ mm diameter.

The machine may only be used by authorized personnel.

The machine can not be used in an explosive environment.

Fill the spring drum 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 chainwheel. On this axle the spring drum is mounted. The drum contains the spring which is to be lead into the drain or sewer opening. By means of the spring transporter and rotation direction the spring can be:

- A Fed out of the drum.
- B Fed into the drum.
- C Kept in place.

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

- Stop
This machine is equipped with an stop. By operating the emergency stop, the machine will stop. Also use it when dangerous situations occur. After use, remove the danger. Make sure the 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.
- Spring guidance tube
The spring guidance tube protects you against the rotating spring. Now your clothes can not get clamped between the spring openings.

2.3 Personnel protection outfit

- Protection looking glasses
- Gloves (Recommended)
- Dust cover (Recommended)

2.4 Warnings

Never take the spring when turning.

Do not let the spring turn outside (swing of the spring).

Do not start the machine with switched in feed unit.

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 10.6 "Safety instructions" page: 47*).

Dust that arises when working on material containing asbestos or stonework containing crystalline silicic acid is harmful to the health. Please follow accident prevention regulations.

Do not pierce the motor housing as this could damage the double insulation (use adhesives).

Keep mains lead clear from working range of the machine. Always lead the cable away behind you.

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.

Never start the machine with the spring pusher 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.

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 overstepped.

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

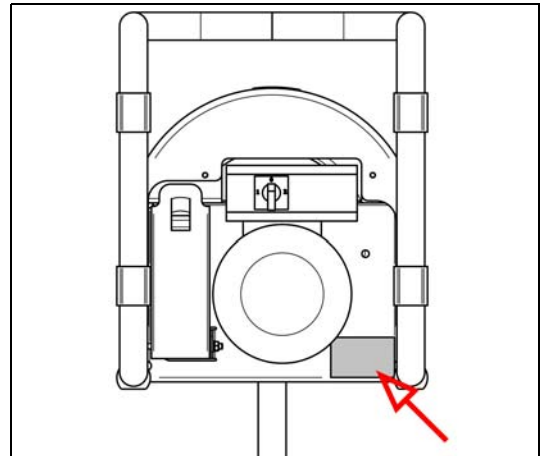
Telephone: +31 (0) 13-5479100

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.

3 Technical Specifications

3.1 General

Description (<i>symbol</i>)	Unit
Type	: FlexMatic+
Dimensions	: see chapter 10.4 Dimensions page.: 45
Weight (dry) (<i>m</i>)	: 11,9 kg
Maximum spring length	: 15 m
Spring diameter	: Ø 8 mm - Ø 10 mm
Springs suitable for sewer diameter	: Ø 20 - Ø 75 mm
Place type plate:Plaats typeplaat:	



In and out speed spring	: 0 - 3 m/min.
Rotation direction	: Left and right
RPM drum	: 385 r.p.m.
Year of construction (<i>month/year</i>)	: See type plate on frame

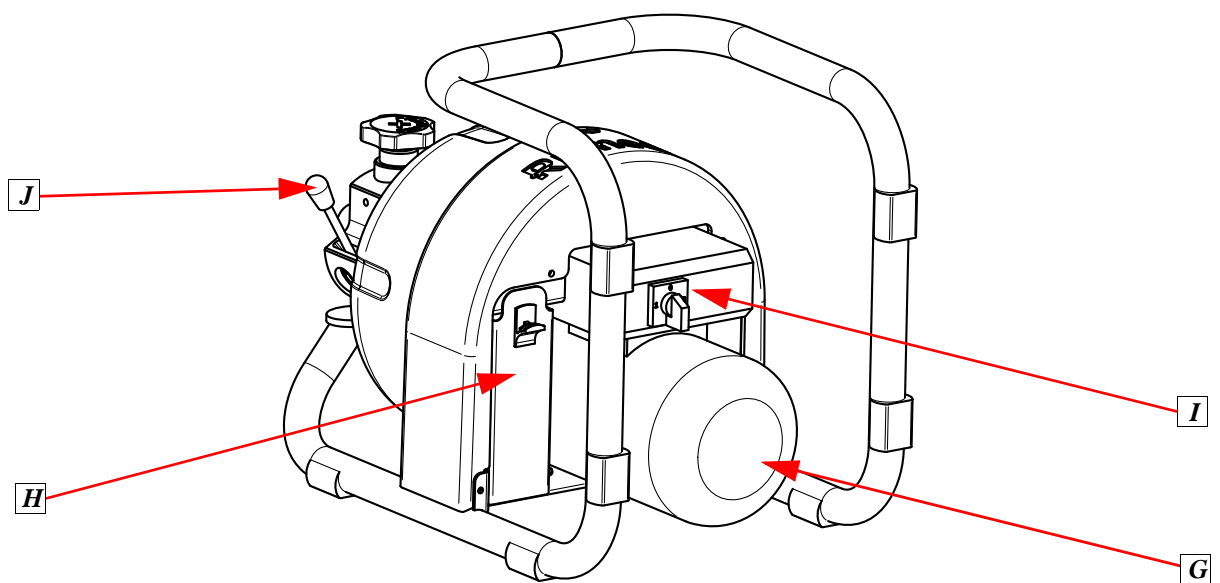
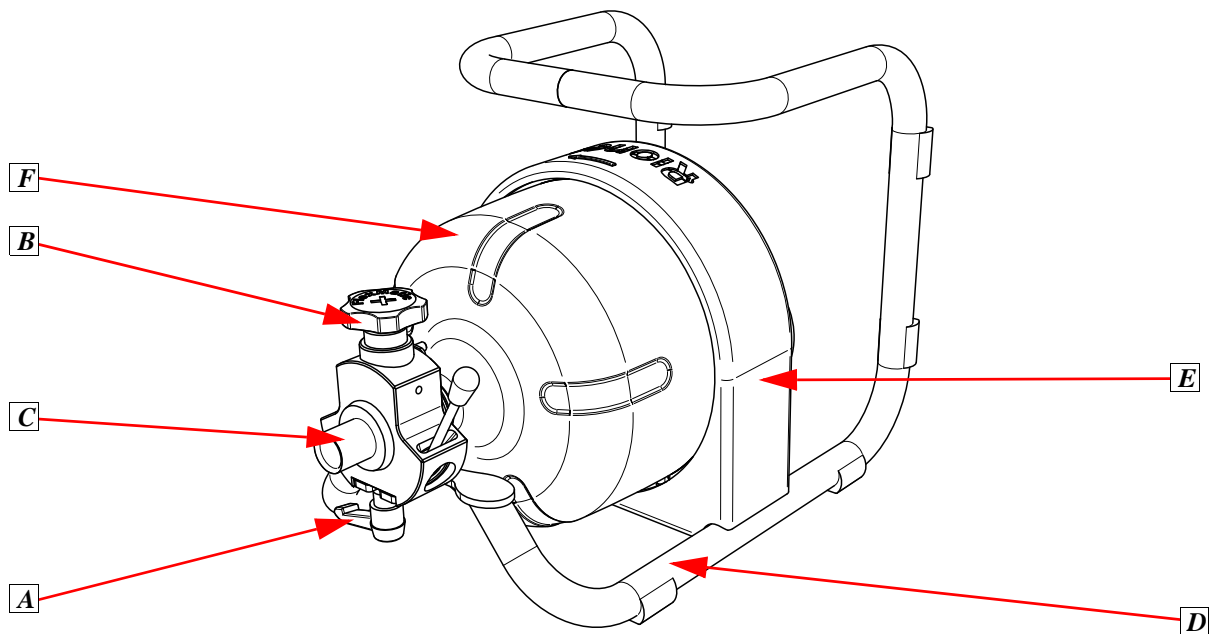
3.2 Motor

Description (<i>symbol</i>)	Unit
Mark/Type	: Unidrive
Power (<i>P</i>)	: 0,18 kW / 0,24 HP
Voltage and frequency	: 230 V, 50 Hz.
Current	: 1,6 A
Revolutions	: 1380 r.p.m.
Security	: Thermal
Cos ϕ	: 0,92
Isolation class	: IP 55

4 Construction

The spring-cleaning device contains the following main parts:

A	Clamp	G	Electric Motor
B	Pressure knob	H	Toolbox
C	Feed unit	I	Switch 1-0-2
D	Frame	J	Handle
E	Cover		
F	Drum		



5 Control



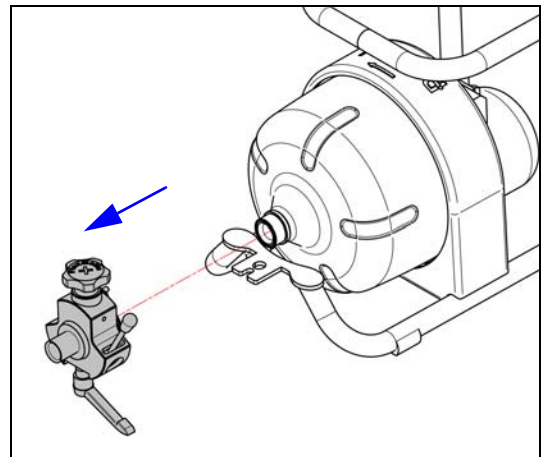
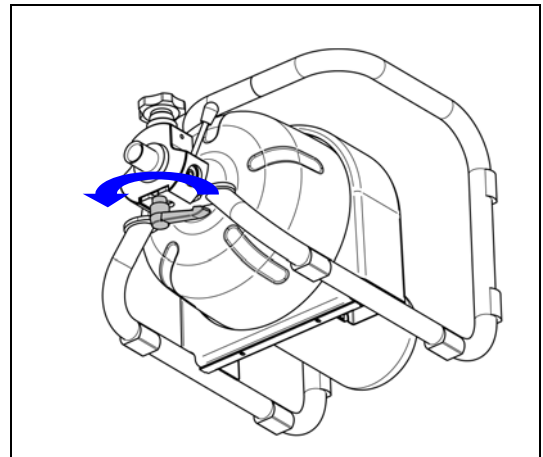
If you control, maintain or inspect the machine, you must have the right qualifications for this job. If you do not have the necessary knowledge, you may not use the machine. Further, you must convince yourself that you understand this manual thoroughly.

5.1 Transport

1. Pull the plug out of the wall socket.
2. Wind the wire around the bow.
3. Couple the extra spring loose and put in storage.
4. Store the standard spring in the drum.
5. Let the standard spring reach a little bit out of the feed unit.
6. Wear the spring machine using the handle.

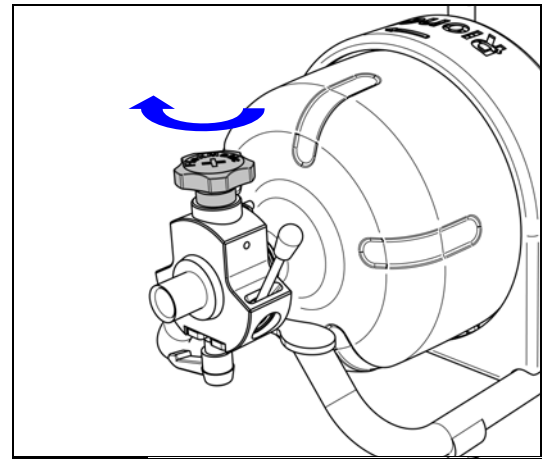
5.2 Controls

1. Clamp handle:
Turn the handle a quarter turn loose to dismount the feed unit.

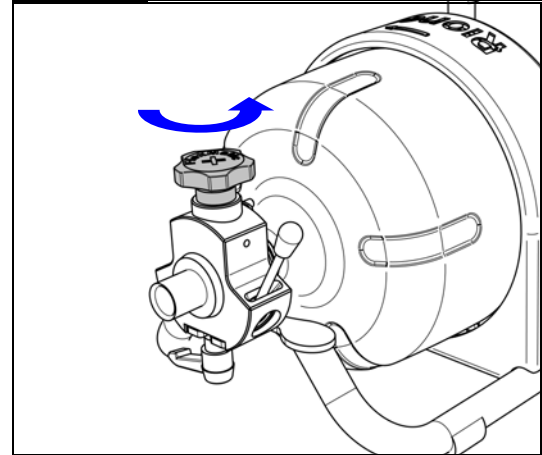


2. Pressure piece:
By turning the pressure piece you can activate the spring unit or deactivate.

- a Pressure knob:
By turning the pressure knob, you can bring the feed unit in and out of order. Turn pressure knob clockwise:
Feed unit activated. Spring rotates and gets transported.

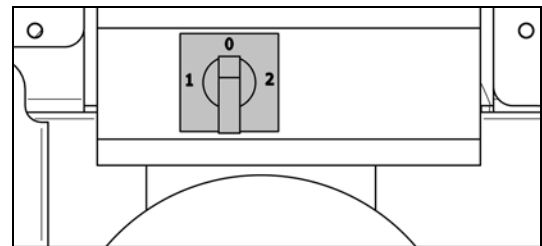


- b Turn pressure knob counter clockwise:
Feed unit out of order. Spring rotates, no transportation.



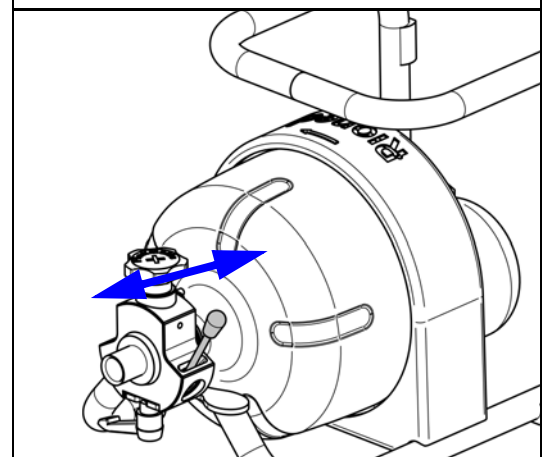
3. Rotary knob:

- Position 0: no rotation.
- Position 1: drum rotates in working direction.
- Position 2: drum rotates reverse.
- Use this position to get a jammed spring back.

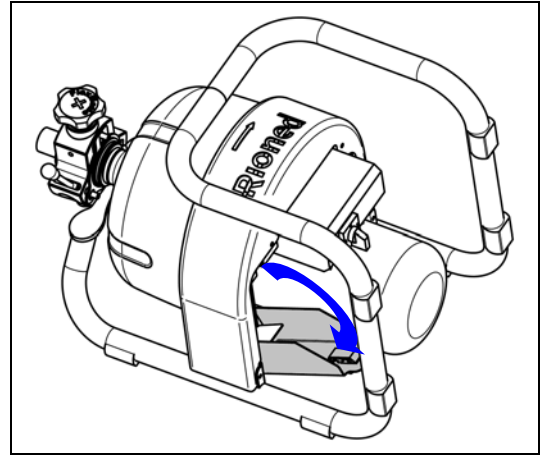


4. Feed unit handle:
By operating this handle, the transportation of the spring is controlled.

- a Lever maximum pointing to the drum:
Spring transport speed maximum in.
- b Lever maximum from the drum off:
Spring transport speed maximum out.
- c Lever in the middle:
no transport.

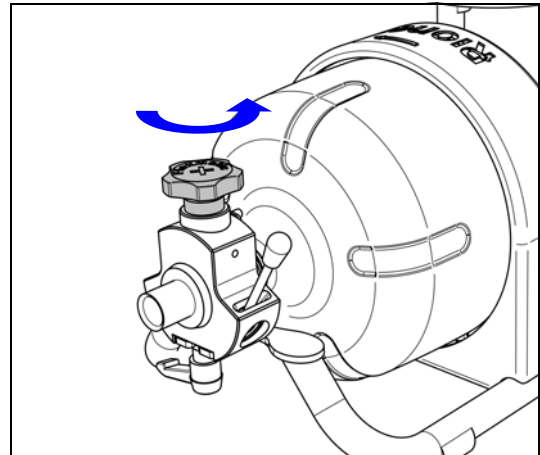


5. Toolbox with accessories

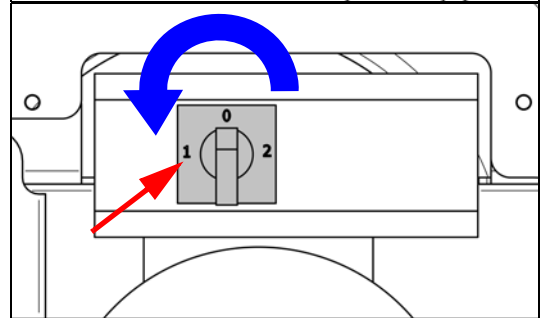


5.3 Before unblocking

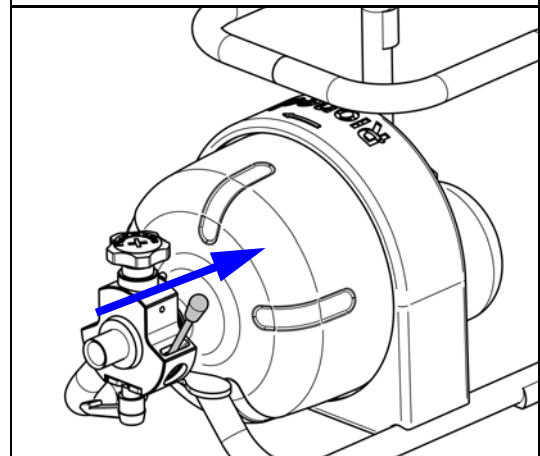
1. Couple a spring with a diameter of 8 mm or 10 mm onto the standard spring.
2. Loosen the pressure knob.



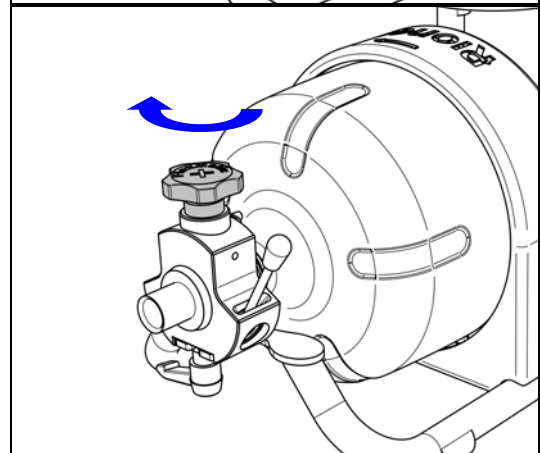
3. Turn the switch to position 1.



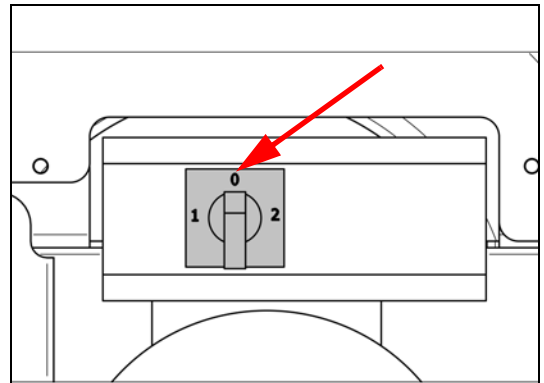
4. Move the handle to the drum.



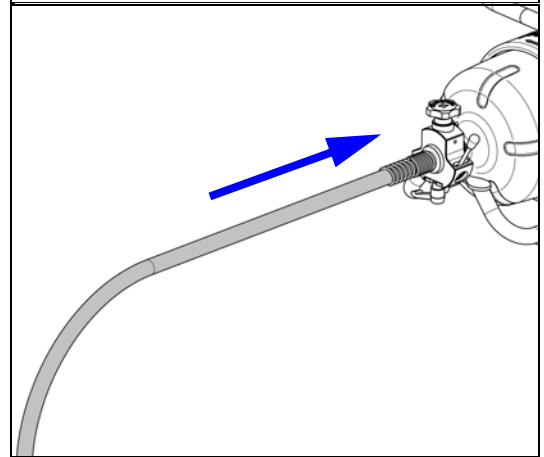
5. Fasten carefully the pressure knob. Now the spring gets fed into the spring drum.



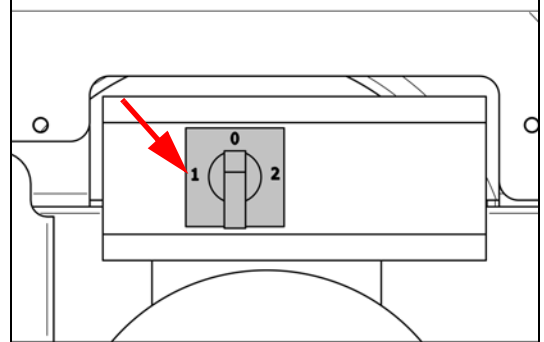
6. Turn the switch to position 0 if the beginning of the spring is in sight.
7. Let the handle loose.
The spring is now wind up in the spring drum.



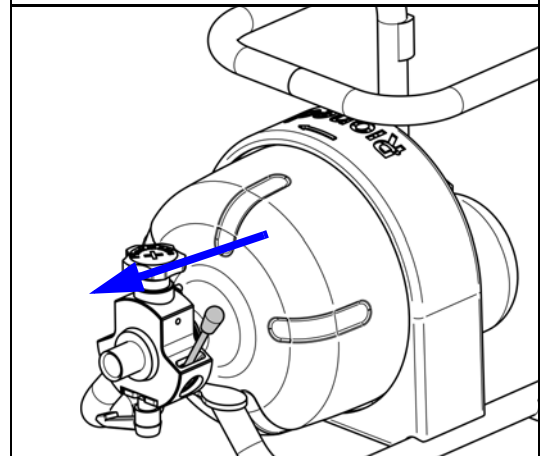
8. Couple the spring guidance tube onto the feed unit.



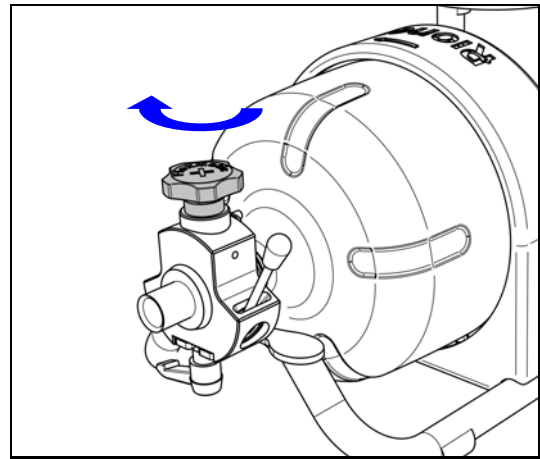
9. Turn the switch to position 1.



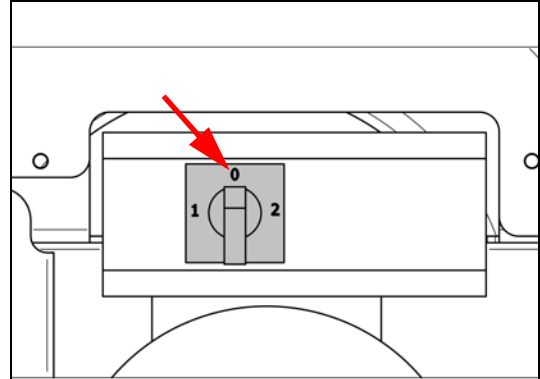
10. Move the handle of the feed unit away from the drum.



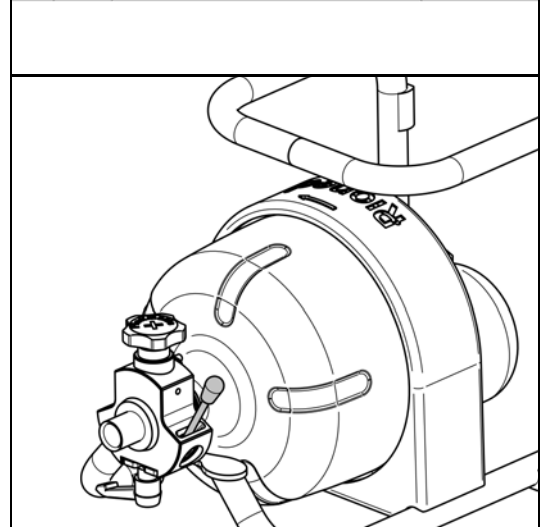
11. Fasten carefully the pressure knob.
Now the spring is fed out of the spring drum.



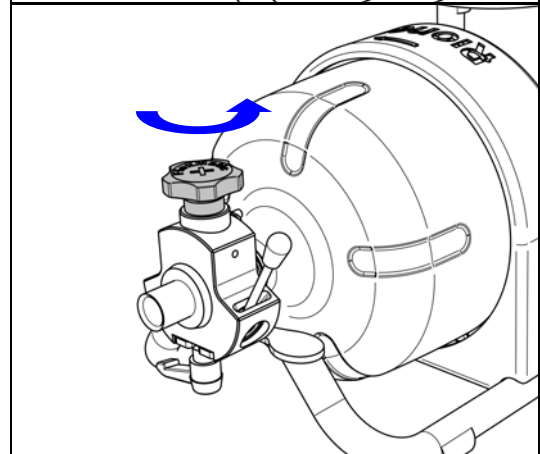
12. Turn the switch to position 0 if the beginning of the spring is come out of the spring guidance tube.



13. Set the handle to the middle position.



14. Loosen the pressure knob.
15. Couple the desired cleaning head (see chapter 8.2 Auxiliaries that can be coupled: Page: 36) onto the spring coupling.



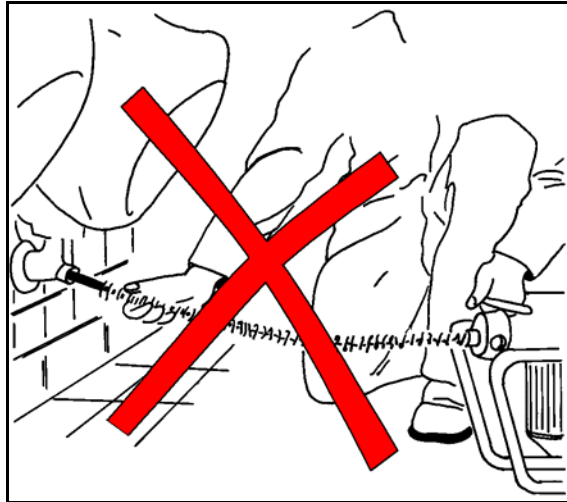
5.4 Unblocking

1. Put the spring machine as near as possible to the drain opening.

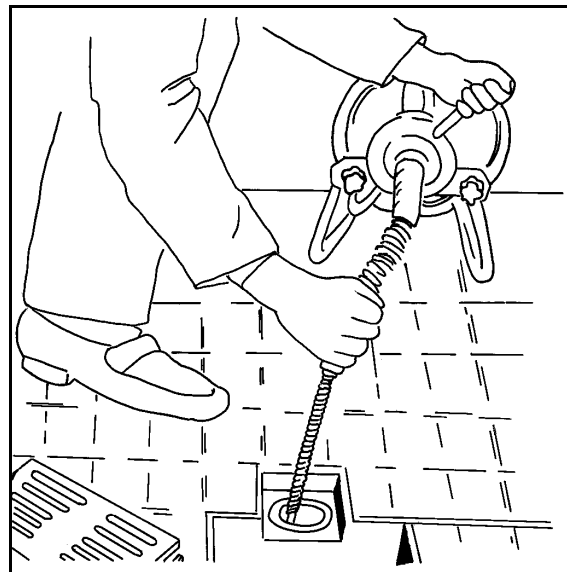


Never use the spring without the spring guidance tube.
When the spring guidance tube is not long enough, you can use the telescope-inlet-tube or another guide tube.
Never let the machine run without supervision!

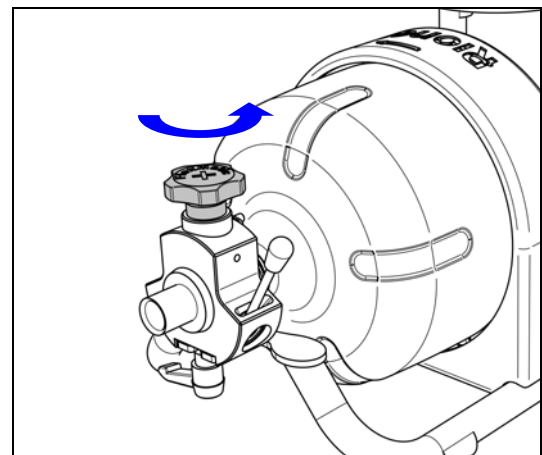
*Illustration 5.4.1
Wrong manner of work-
ing:
Guiding the spring with-
out spring guidance
tube.*



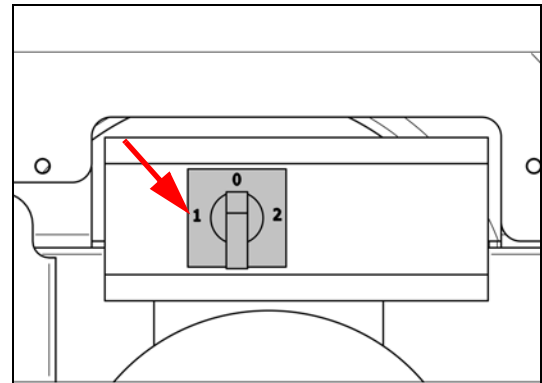
*Illustration 5.4.2
Right manner of work-
ing: Hand on handle and
spring guidance tube.*



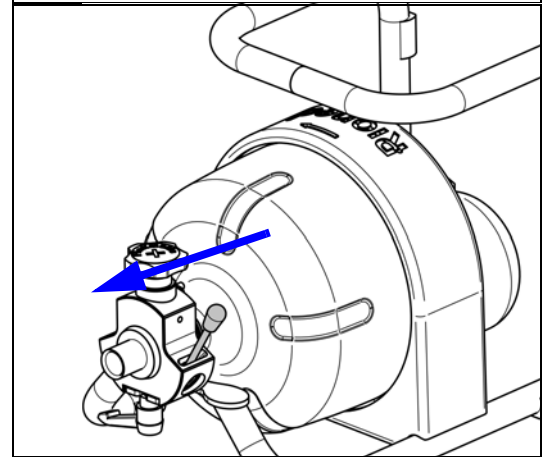
2. Feed the spring in the drain that has to be cleaned.
3. Check if the pressure knob is loose.



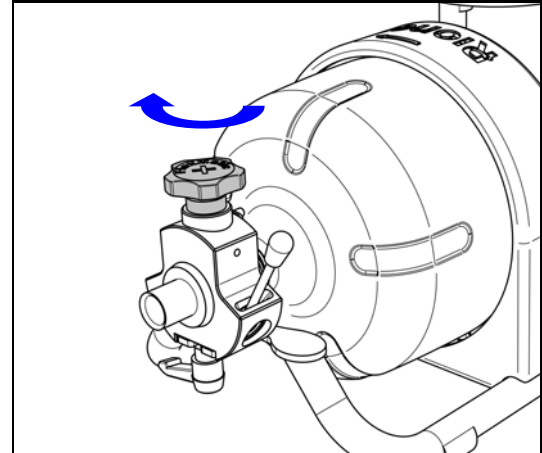
4. Turn the switch to position 1.



5. Move the handle of the feed unit away from the drum.



6. Fasten the pressure knob. Now the spring can be fed in. Depending of the position of the handle, the spring moves quicker or slower in or out of the spring drum.



Fasten the pressure knob more when slip occurs during transport.

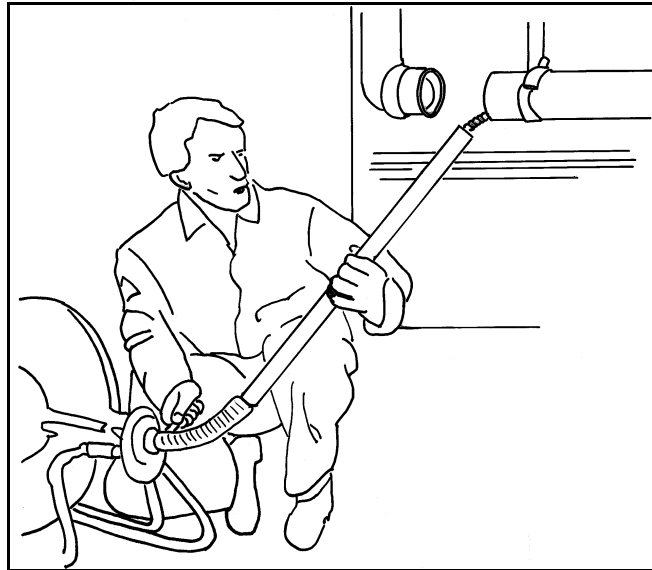
If the slip stays, change the rotation direction (Position 2)!



Stop the machine if the slip does not disappear!

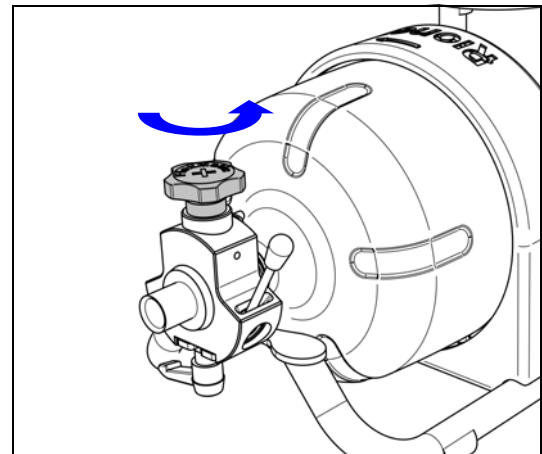
The spring is locked in the pipe and must be pulled out or the press rollers are damaged and must be replaced.

7. When there is any resistance in the pipe, you must stop feeding in of the spring immediately. Pull the handle upwards. Then move the spring several times back and forwards at the place of the blockage.
8. By feeding the spring into the drum, move the handle completely upwards. Place the machine $\pm 0,5$ meter from the inlet opening. In this way, you can see the end of the spring with cleaning head come out of the pipe.

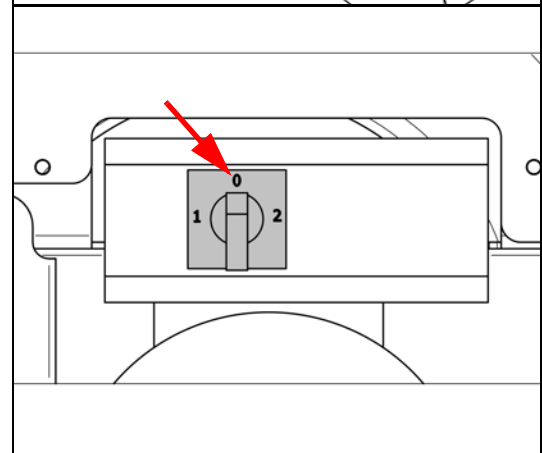


*Illustration 5.4.3
Spring guiding by means
of a telescope tube.*

9. Keep the handle in his neutral position if the spring is completely out of the pipe. In this way the spring stays turning at the same place.
10. Loosen the pressure knob.



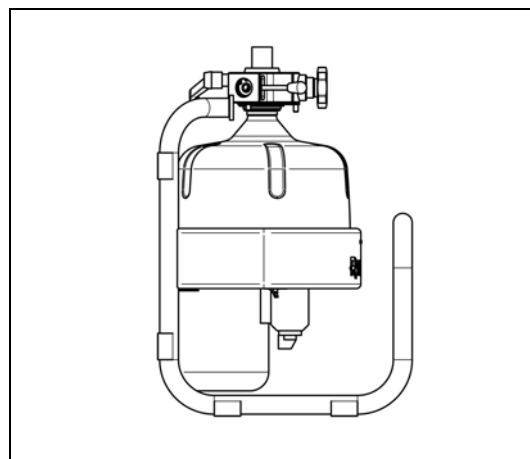
Turn the switch to position 0 and the rotation stops.



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

5.5 Unclogging a highly placed hole

Tip the machine over.



6 Options

6.1 Foot switch

Using the optional foot switch allows you to switch the electric motor on and off. Your hands are now free for other work.



7 MAINTENANCE



Warning!

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

7.1 General

The machine is maintenance free, except the feed unit.

Use only original spare parts (*See 9 Exploded View Explosionszeichnung und Ersatzteilliste Dessin et Liste de Rechange*).

Clean regular the feed unit housing.

Check regular the bearings in the pressure rollers.

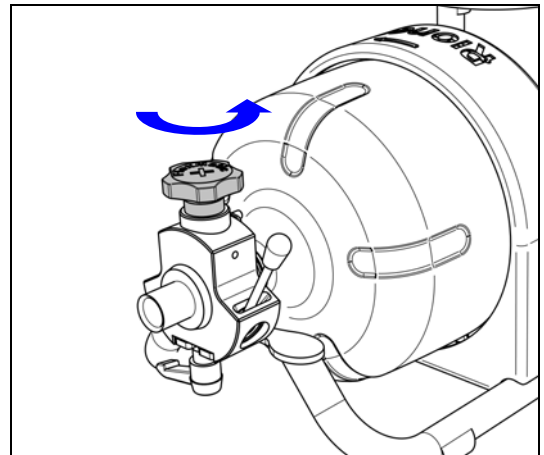
Keep the machine clean; it will extend the life of the machine.

7.2 Cleaning the feed unit

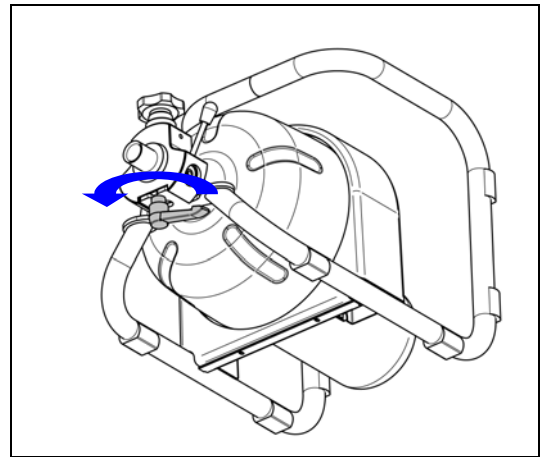
The feed unit is outside the machine. By loosening the handle, the feed unit can easily be removed and cleaned.

See for the numbers the exploded view (*See 9 Exploded View Explosionszeichnung und Ersatzteilliste Dessin et Liste de Rechange*).

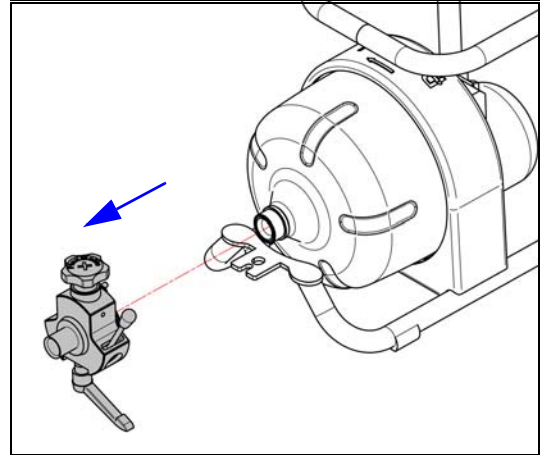
1. Remove the pressure knob from the feed unit.



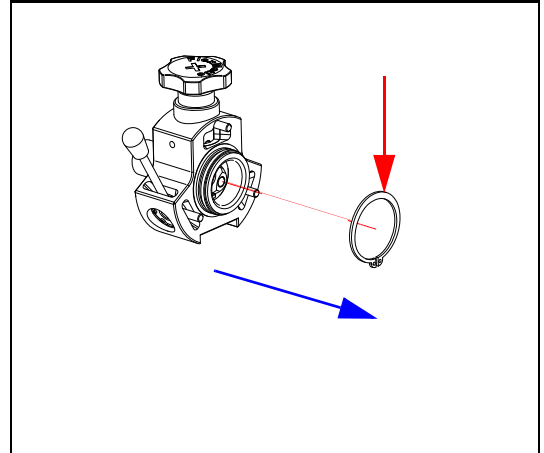
2. Rotate the handle a quarter turn loose.



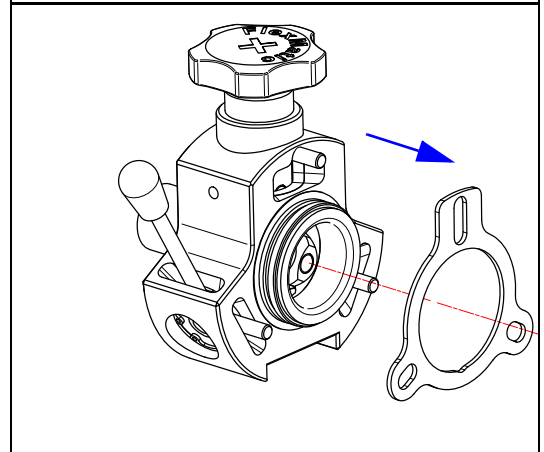
3. Move the feed unit from the frame. Hold the drum!



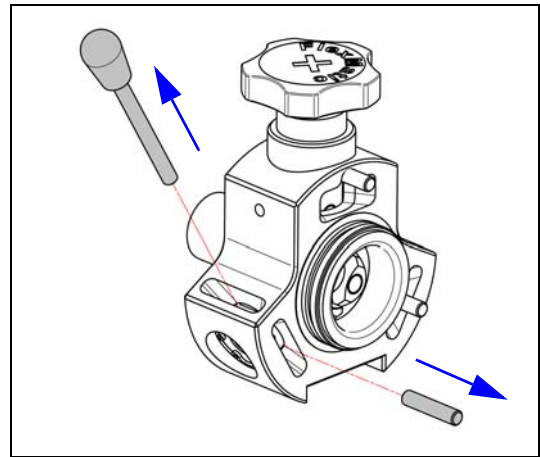
4. Remove the circlip from the feed unit.



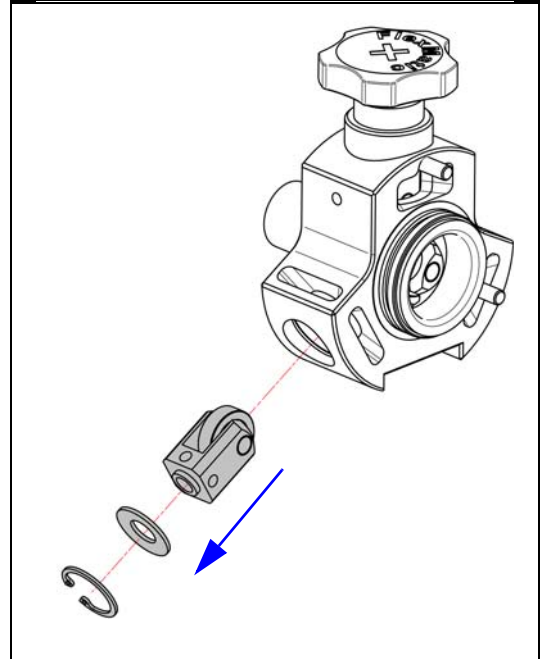
5. Remove the tilting disc.



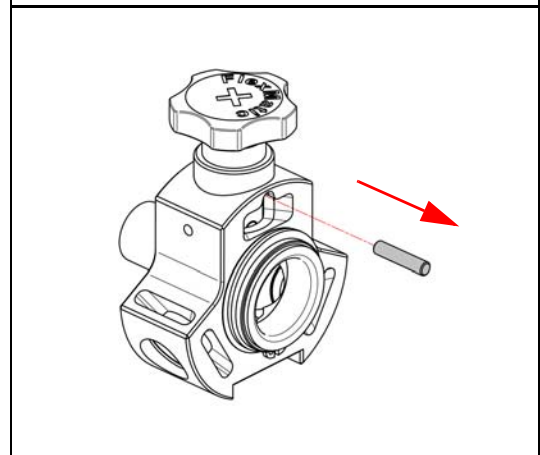
6. Loosen the lower tilting disc bolt and handle.



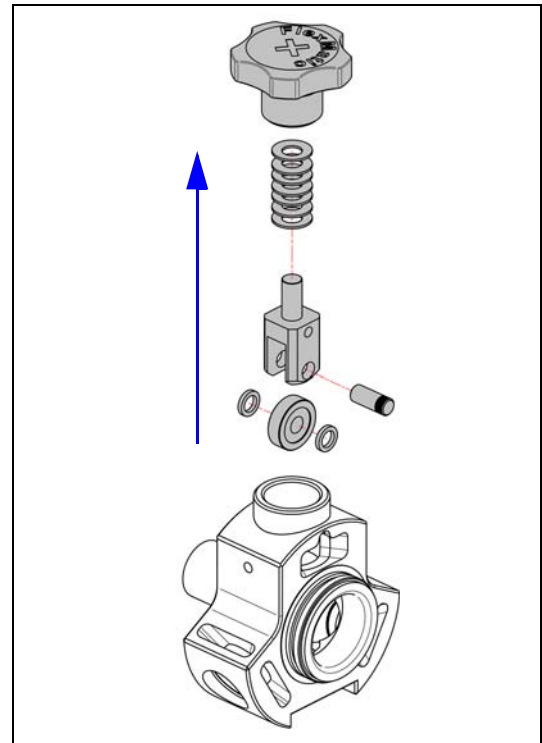
7. Remove the circlip from the feed unit.
8. Remove the plates with the bearing from the feed unit.
9. For the other pressure piece, repeat point 1 to 8 again.



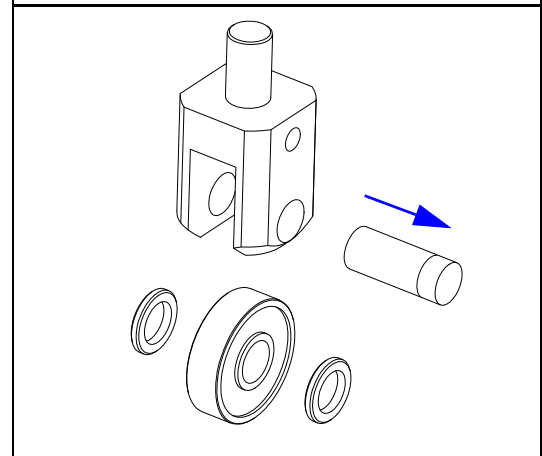
10. Loosen the upper tilting disc bolt.



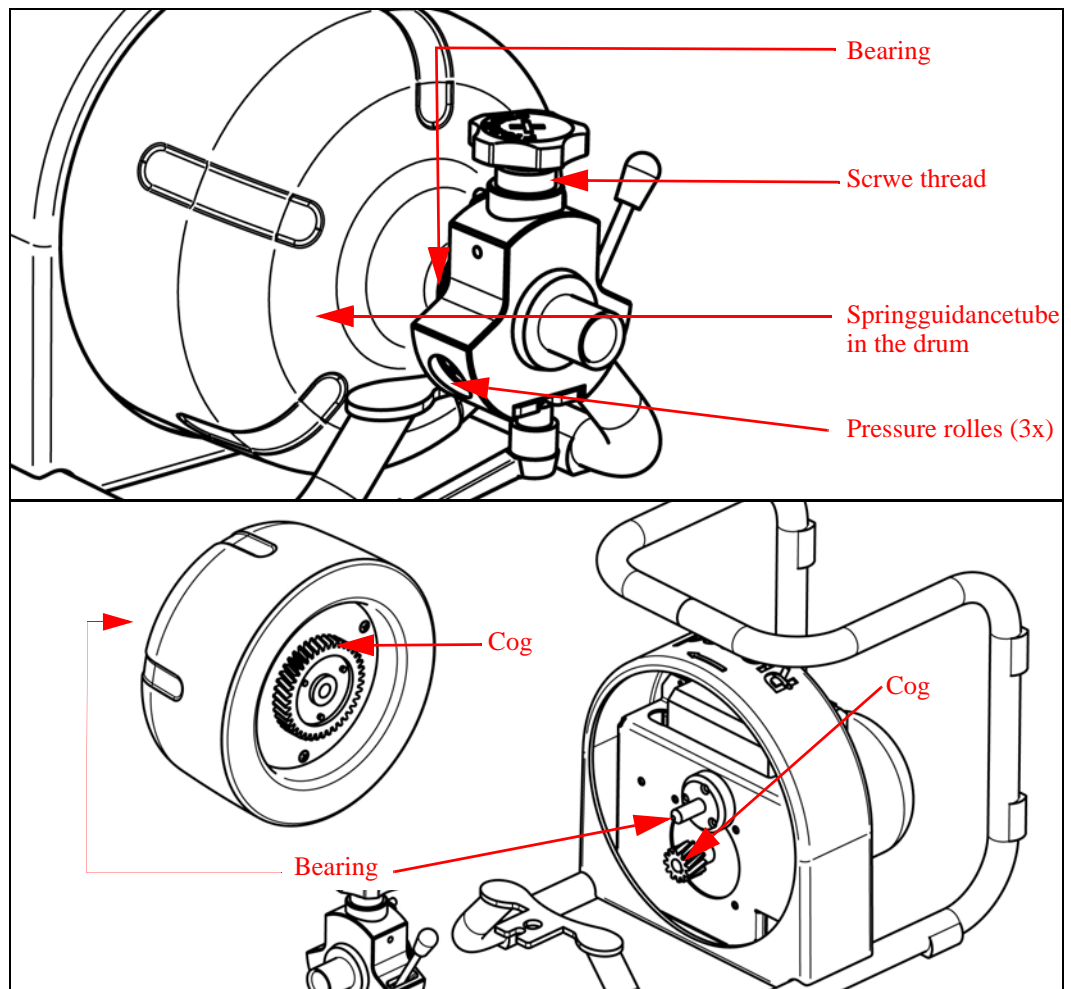
11. Remove the upper pressure knob.
12. Clean everything thoroughly.



13. Check the pressure bearings.
Replace pressure bearings:
a Remove the axle from the pressure piece.
b Remove the rings and the pressure bearing.
c Place the new rings and the new pressure bearings in the pressure piece.
d Place the axle back into the pressure piece by means of a rubber hammer.
14. Put new grease on the pressure rollers.
15. Mount everything in opposite order.



7.3 Lubrication



7.4 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.

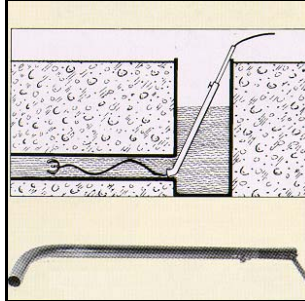
7.5 Maintenance schedule

Description	Interval
Cleaning the feed unit	: Every time before using the machine and by strong pollution.
Checking pressure rollers	: 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 ones every 6 months.

8 ACCESSORIES

8.1 Supplies

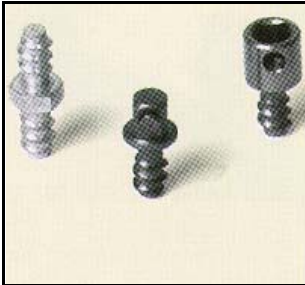
1. Inlet guide tube:
To guide the spring on difficult places.



2. Spring drum empty.



3. Repair and quick couplings:
To connect springs or to repair broken springs.

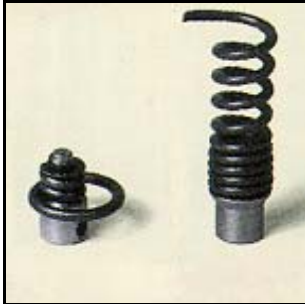
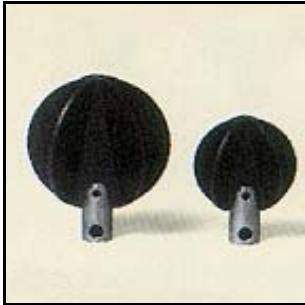
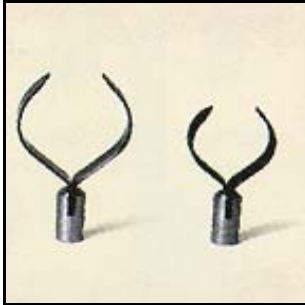




4. Anti-oxidation-spray.



5. Mounting tools:
To mount and dismantle spring couplings and auxiliaries.

8.2 Auxiliaries that can be coupled:

1. 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. Drilling head:
For light unclogging in polluted pipes.


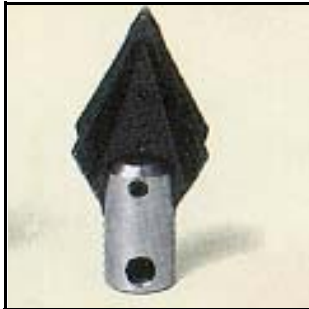
6. Root cutter:
To saw tree roots.



7. Funnel drill:
For long bended pipes.



8. Pointed head:
For pipes clogged with lime or uric stones.



9 Exploded View

Explosionszeichnung und Ersatzteilliste

Dessin et Liste de Rechange

9.1 Exploded view

POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING
1	1	13261000301	Drum FlexMatic+ complete	9	1	13261000150	Cover Flexmatic+	10.9.2	1	31151251215	schotelveer DIN 2093 25 x 12,2 x 1,5
1.1	1	13261000304	Drum Flexmatic+	10	1	13261000200	Transporteur compleet	10.9.3	2	13271000032	ONDERLEGRING MESSING
1.2	1	13261000302	Back ring drum Flexmatic+	10.1	1	13261000201	Huis transporteur	10.9.4	1	13261000221	Drukstuk onder
1.3	1	13261000303	Cone Flexmatic+	10.2	1	13261000203	Glijlager brons	10.9.5	1	13250002004	DRUKROL-AS
1.4	1	13261000310	Gasket drum FlexMatic+	10.3	1	13261000205	Kantelschijf	10.10	1	13261000232	Elesa hendel 1.622/25-M6 Black
1.5	1	13260500007	AANDRIJFRING FLEXMATIC	10.4	1	13261000210	Drukstuk boven compleet	10.11	1	13300001051	veergeleidebuis Allround
1.6	1	13261040020	Kunststof tandwiel 40T M2 α=20° β=15° Rechts	10.4.1	1	45004000608	LOOPROL LR 608 NPPU	10.12	2	N/B	Hexagon Socket Set Screw
1.7	3	33570158204	TRILLINGSDEMPER FLEXMATIC 15 X 8 - X M4	10.4.2	2	13271000032	ONDERLEGRING MESSING	10.13	1	N/B	Retaining rings for shaft
1.8	3	32214005014	bolvormige schroef DIN 964 M5 x 14 RVS A2	10.4.3	7	31151180910	schotelveer DIN 2093 18 x 9,2 x 1,0	10.14	2	N/B	Spring Retaining Ring
1.9	1	13261000306	Lager trommel Flexmatic / Bearing drum Flexmatic	10.4.4	1	13261000211	Drukstuk boven	11	1	13261000401	Klemhefboom kunststof
2	1	85050500181	Elektromotor 0,18 kw 230v AEG type ae 63	10.4.5	1	13250002004	DRUKROL-AS TBV HANDMATIC MODEL	12	8	30090001022	SLEEBUIDOP ROND 22-25
3	1	13260500004	TROMMELAS VOOR FLEXMATIC	10.5	3	13261000230	Kantelschijfbout	13	1	13260500032	luchtschakelaar (niet getekend)
4	1	13261012020	Stalen tandwiel 12T M2 α=20° β=15° links	10.6	1	13261000231	Kantelhendel	14	1	28261500018	Invoergeleideslang Flexmatic+ cpl met veer
5	1	13260500033	VOETACCURATOR FLEXMATIC	10.7	1	13261000031	drukschroef vt Flexmatic	15	1	32203005070	imbusbout DIN 912 M5 x 70
6	1	13261000100	Frame FlexMatic+	10.8	1	13261000202	Inschroefstuk	16	1	31035500005	sluitring DIN 125a M5
7	1	13261000130	Tool box FlexMatic+	10.9	2	13261000220	DRUKSTUK ONDER KPL.	17	1	31029000005	veerring DIN 127 M5
8	1	13261000135	slot tbv gereedschapbakje FlexMatic+	10.9.1	1	45004000608	LOOPROL LR 608 NPPU 8 X 24 X 7	18	1	32206000005	moer DIN 934 M5

Tenzij anders aangegeven zie Rioned normblad maaddelen en:		3,2 / 12,5	Hoeken en kanten breken.	Zetten: R inwendig = materiaaldikte	Lineaire maten: (uitzondering laswerk: 0-150: ±0,5; 150-2000: ±1; 2000-4000: ±2)
Benaming: FlexMatic+ verenmachine, Unidrive 230V 0,18 kW elektromotor, excl. veer en toebehoren		Datum: 4-11-2002		Materiaal:	
Centraurweg 45, 015 TC Tilburg, Tel: 013-5479100, Fax: 013-5479104		Getek.: Ronald		Artikelnummer:	
WWW.RIONED.COM		Gecontr.: Ronald		Behandeling:	
Deze tekening is eigendom van Rion B.V. / Rioned en mag zonder haar toestemming niet verspreid of gebruikt worden.		Blad 1 v. 3 bl.		Prod. no.: 10260001000	
Rioned		Maten in mm		Tek.no.: 10261001000 /03	

9.2 Stuklijst

8				7				6				5				4				3				2				1			
POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING	POS	QTY	ARTIKELNR.:	OMSCHRIJVING
1	1	13261000301	Drum FlexMatic+ complete	9	1	13261000150	Cover Flexmatic+	10.9.2	1	31151251215	schotelveer DIN 2093 25 x 12,2 x 1,5																				
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1.3	1	13261000303	Cone Flexmatic+	10.2	1	13261000203	Glijlager brons	10.9.5	1	13250002004	DRUKROL-AS																				
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10 APPENDIX

10.1 EC declaration Of Conformity For Machinery

(Directive 2006/42/EC, Annex II, sub A)

RIOR B.V. / RIONED
Centaurusweg 45, Tilburg, The Netherlands,

Herewith declares that:

Spring cleaning machine FlexMatic+,

- 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

10.2 Sales Managers

EXPORT

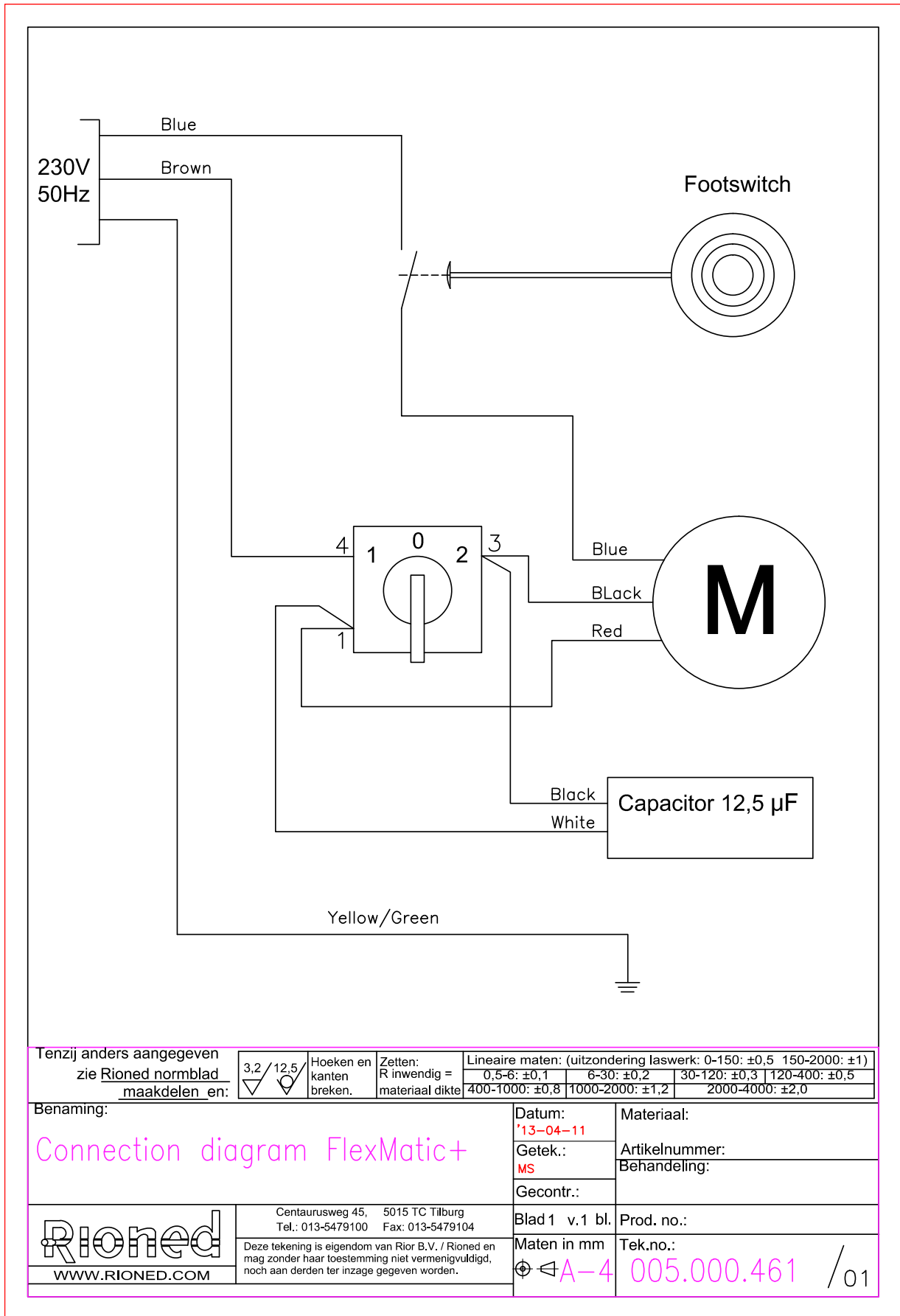
D.Maas
Area Sales Manager
Centaurusweg 45
5015 TC Tilburg
Tel.: +31 13-547 91 00
Fax: +31 13-547 91 04

REPAIR


THE NETHERLANDS

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

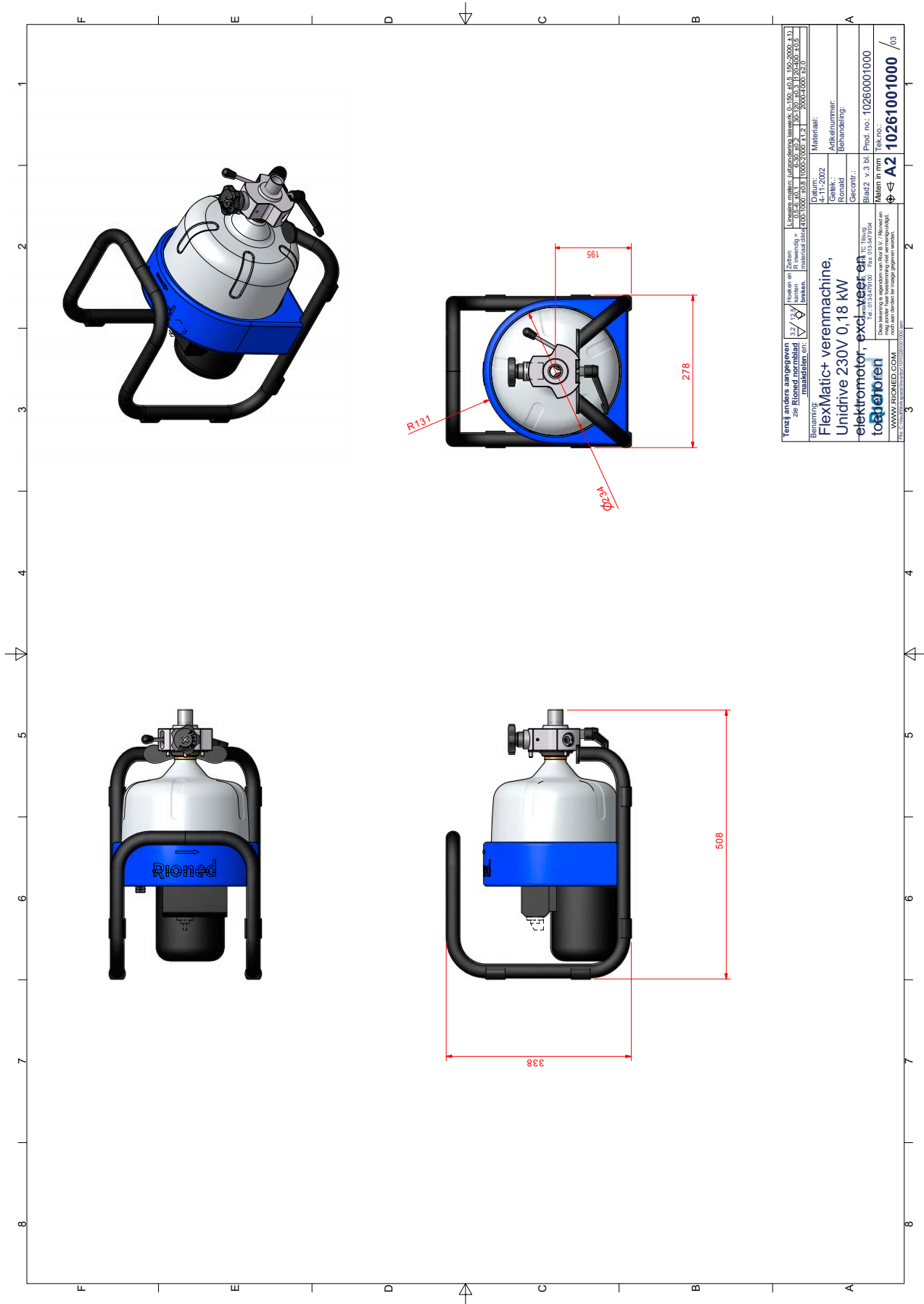
10.3 Wiring diagram



Tenzij anders aangegeven zie Rioned normblad maaddelen en:	3,2 / 12,5	Hoeken en kanten breken.	Zetten: R inwendig = materiaaI dikte	Lineaire maten: (uitzondering laswerk: 0-150: ±0,5 150-2000: ±1)			
				0,5-6: ±0,1	6-30: ±0,2	30-120: ±0,3	120-400: ±0,5

Benaming: Connection diagram FlexMatic+	Datum: '13-04-11	Materiaal:
	Getek.: MS	Artikelnummer: Behandeling:
	Gecontr.:	
 Centaurusweg 45, 5015 TC Tilburg Tel.: 013-5479100 Fax: 013-5479104 Deze tekening is eigendom van Rior B.V. / Rioned en mag zonder haar toestemming niet vermenigvuldigd, noch aan derden ter inzage gegeven worden.	Blad 1 v.1 bl.	Prod. no.:
	Maten in mm ⊕ ⊖ A-4	Tek.no.:

10.4 Dimensions



Resultaten geluidsmetingen ter bepaling van optredende geluidsniveaus rondom de machine op de werkplek.

Datum: vrijdag 19 april 2013
 Gemeten door: Marc Soethout
 Meetinstrument: CEL-269 Digitale Integrerende Geluidsniveaumeter, volgens IEC 651 type 2, ANSI S1.4 type 2A en BS 5969 type 2
 Impuls geluidsniveaumeter volgens IEC 651 type 21
 Integrerende geluidsniveaumeter volgens IEC 6041, BS 6988
 Nauwkeurigheid: ± 1 dB (onder referentiecondities)
 Frequentiebereik: (45,5-3 dB);
 terminatie 10 Hz tot 25 kHz voor alle bereiken

Meetbereik:
Instelling
 A LO (laag) 30-100 dB Weergavenbereik 33 - 86 dB
 A HI (hoog) 65-135 dB Berek primaire lineariteit (IEC 651)
 C LO (laag) 30-100 dB
 C HI (hoog) 65-135 dB

Richtgevoelighed:
 Binnen de grenzen van IEC 651

Microfoon type:
 Type C, 1/2", voor gespecificeerd, circa 10 mV/Pa, vast bevestigd aan meter. De microfoon voldoet aan de geldende normen (type 2) voor zowel vrije veldmetingen als rondomgevoelige metingen.

Instellingen geluidsmeter tijdens het meten.

Mode: Leq
 Range: A, HI
 Response: (F)ast

Controles

Batterijspanning: 5,20 Volt
 Gebruik windbol:
 Meter gekalibreerd voor meting:

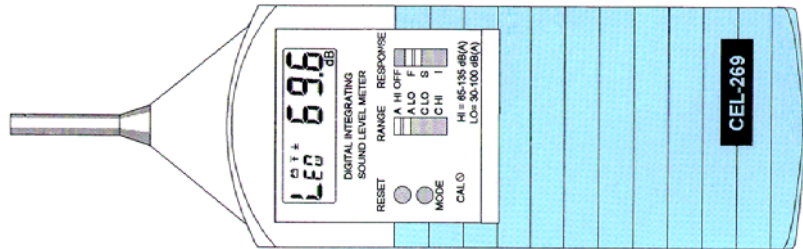
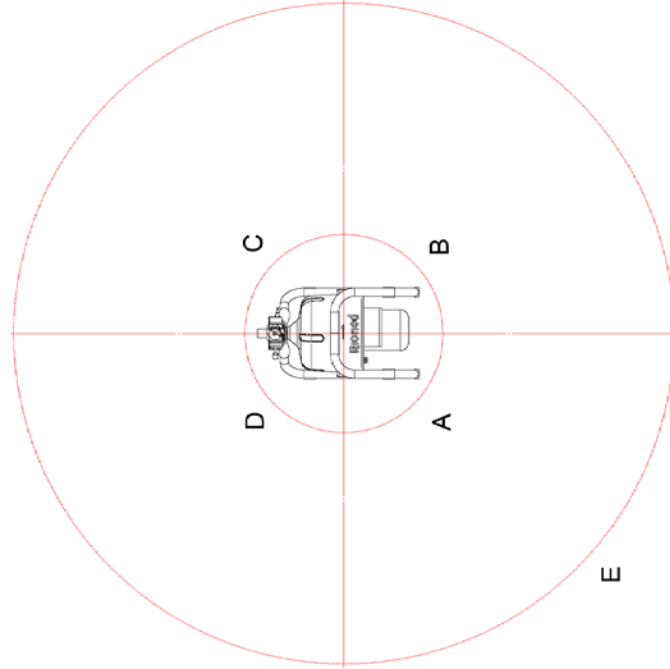
Gemeten machine: FlexMatic+
 Motor: Unidrive

Meetposities:
 Situering meetposities geluidmeting Allround+.
 Alle meetpunten bevinden zich op 'gemiddelde oorhoogte', 1,00 m boven de grond.
 De metingen zijn verricht op een afstand van de Allround+, hetgeen representatief mag worden genoemd, voor de te verwachten werkomstandigheden bij gebruik van deze veermachine..

Meetresultaten:

Positie	Omschrijving	Omgevingsgeluid met motor uitgeschakeld	geluidsniveau (dB)
A	Links	Stationair	40
B	Voor		70,5
C	Rechts		70,1
D	Achter		69,2
E	Op 2 meter (gemiddeld)		69,3
F	Op 7 meter (gemiddeld)		67,0

Opmerking:



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 would 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.

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