



# Exotom

# Exotom-M

Manual No.: 13817001

Date of Release 12.08.1998

## Instruction Manual



*Exotom / Exotom-M  
Instruction Manual*

<b>Table of Contents</b>	<b>Page</b>
User's Guide .....	1
Reference Guide.....	11

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Always state *Serial No* and *Voltage/frequency* if you have technical questions or when ordering spare parts. You will find the Serial No. and Voltage on the type plate of the machine itself. We may also need the *Date* and *Article No* of the manual. This information is found on the front cover.

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## **Exotom/Exotom-M Safety Precaution Sheet**

### **To be read carefully before use**

- 1.** The operator(s) should be fully instructed in the use of the machine and its cut-off wheels according the Instruction Manual and the instructions on the cut-off wheels.
- 2.** The machine must be placed on a safe and stable support. All safety functions and screws of the machine must be in working order.
- 3.** Use only intact cut-off wheels. The cut-off wheels must be approved for min. 3400 rpm/63 m/s.
- 4.** Observe the current safety regulations for handling, mixing, filling, emptying and disposal of the additive for cooling fluid.
- 5.** Do not touch anything inside the cutting chamber while positioning the cut-off wheel with the button RAPID ADVANCE.
- 6.** The sample must be securely clamped in the quick-clamping device or the like. Large or sharp samples must be handled in a safe way.
- 7.** Protruding work pieces should be shielded or marked.
- 8.** Do not put your hands through the rubber curtain during operation of the machine.
- 9.** Do not open the protection screen before the cut-off wheel has stopped.
- 10.** Struers recommends the use of exhaustion as the cutting materials may emit harmful gasses or dust. See the instructions of the cut-off wheel.

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The equipment is designed for use with consumables supplied by Struers. If subjected to misuse, improper installation, alteration, neglect, accident or improper repair, Struers will accept no responsibility for damage(s) to the user or the equipment.

Dismantling of any part of the equipment, during service or repair, should always be performed by a qualified technician (electromechanical, electronic, mechanical, pneumatic, etc.).

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# User's Guide

Table of Contents	Page
<b>1. Getting Started</b>	
Checking the Contents of Packing .....	3
Exotom .....	3
Exotom-M .....	3
Recirculation Cooling Unit.....	3
Unpacking Exotom/Exotom-M .....	4
Placing Exotom/Exotom-M.....	4
Getting Acquainted with Exotom/Exotom-M .....	4
Details of Exotom .....	5
Details of Exotom-M .....	5
Noise Level.....	6
Supplying Power .....	6
Direction of the Cut-off Wheel .....	6
Supplying Compressed Air.....	6
Connecting the Recirculation Unit .....	6
<b>2. Operation</b>	
Using the Controls.....	7
Front Panels of Exotom.....	7
Front Panel of Exotom-M.....	7
Front Panel Controls .....	8
Changing the Cut-off Wheel.....	9
Clamping the Sample .....	9
Positioning the Cut-off Wheel.....	9
Cutting on Exotom.....	9
Starting the Cutting .....	9
Stopping the Cutting .....	9
Cutting on Exotom-M .....	10
Starting the Cutting .....	10
Stopping the Cutting .....	10
Excicut.....	10
Flushing the Cutting Chamber.....	10
Refilling of Cooling Water .....	10

*Exotom/Exotom-M  
Instruction Manual*

## **1. Getting Started**

### **Checking the Contents of Packing**

#### *Exotom*

- 1 Exotom
- 3 Cut-off wheels (81EXO, 83EXO and 86EXO)
- 6 Cardboard flanges for cut-off wheels 81EXO, 83EXO and 86EXO
- 1 Fork spanner (32 mm) for mounting of cut-off wheel
- 1 Additive (1 l) for cooling water
- 1 Socket spanner (19 mm)
- 1 Hose for compressed air (3000 mm)
- 2 Hose Clamps (12 mm)
- 1 Hose connection
- 1 Grease gun
- 1 Hexagon spanner, 3 mm, for the quick clamping device
- 1 Angled socket spanner, 13 mm, for the quick clamping device
- 1 Crossbeam
- 1 Hexagon spanner, 10 mm, for mounting crossbeam
- 2 Screws for mounting crossbeam
- 1 Set of Instruction Manuals

#### *Exotom-M*

- 1 Exotom-M
- 3 Cut-off wheels (81EXO, 83EXO and 86EXO)
- 6 Cardboard flanges for above
- 1 Fork spanner (32 mm) for mounting of cut-off wheel
- 1 Additive (1 l) for cooling water
- 1 Socket spanner (19 mm)
- 1 Grease gun
- 1 Hexagon spanner, 3 mm, for the quick clamping device
- 1 Angled socket spanner, 13 mm, for the quick clamping device
- 1 Crossbeam
- 1 Hexagon spanner, 10 mm, for mounting crossbeam
- 2 Screws for mounting crossbeam
- 1 Set of Instruction Manuals

#### *Recirculation Cooling Unit*

- 1 Recirculation cooling unit
- 1 Lid for cooling unit
- 1 Sieve for cooling water
- 2 Plastic inserts for the tank
- 1 Trolley for cooling unit

*Exotom / Exotom-M  
Instruction Manual*

**Unpacking Exotom/Exotom-M**

- Remove the door from the cupboard and take out the loose parts (trolley, tank etc.).
- Place the pumps in the cutting chamber.
- Unscrew the nuts from the four bolts fixing the machine to the pallet.

**Placing Exotom/Exotom-M**

- Fasten the enclosed crossbeam at the bottom part of the door posts.
- Lift of the machine from the pallet by means of a fork-lift truck from the front side, or with a crane, and place it in a suitable location.
- Unscrew the front crossbeam.
- Adjust the machine shoes so that the machine stands firmly. Then mount the door.

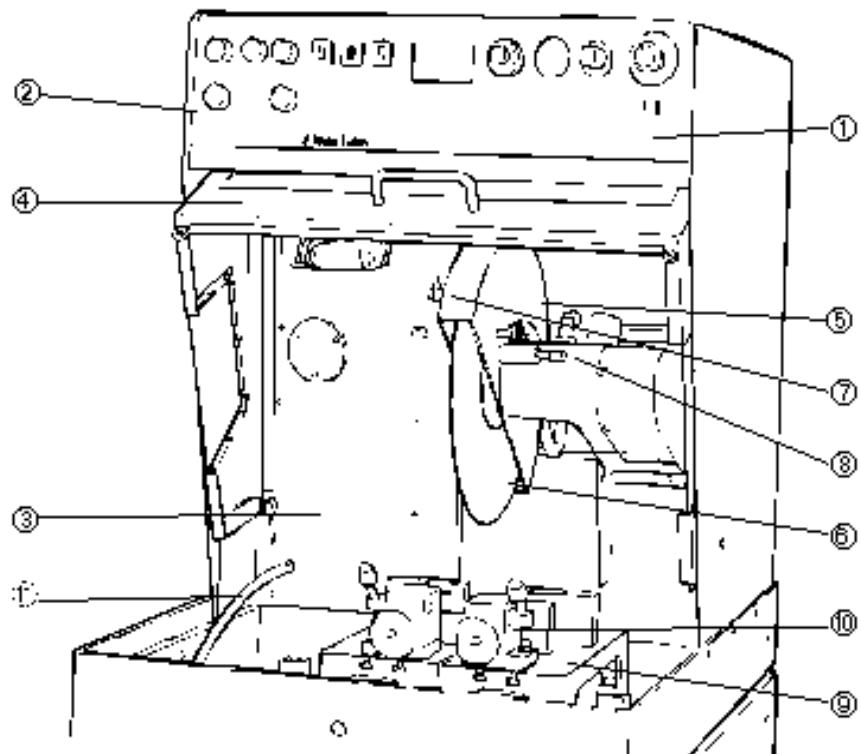
**Getting Acquainted with  
Exotom/Exotom-M**

Take a moment to familiarise yourself with the location and names of the Exotom/Exotom-M components.

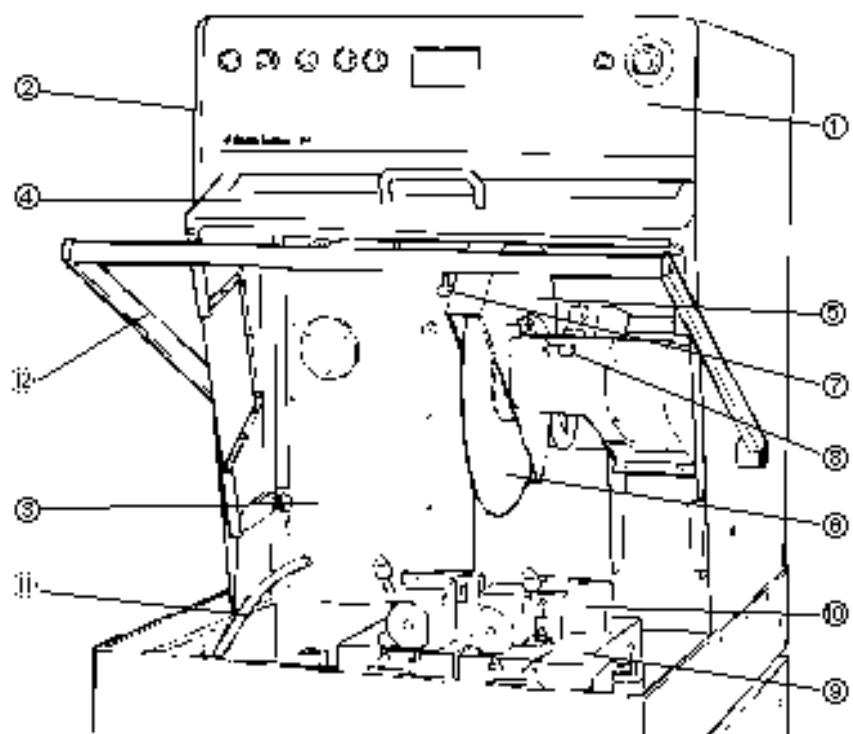
<b>Exotom</b>	<b>Exotom-M</b>
① Front panel controls	① Front panel controls
② Main switch	② Main switch
③ Cutting chamber	③ Cutting chamber
④ Protection guard	④ Protection guard
⑤ Guard for cut-off wheel	⑤ Guard for cut-off wheel
⑥ Cut-off wheel	⑥ Cut-off wheel
⑦ Finger grip for guard	⑦ Finger grip for guard
⑧ Spindle lock button	⑧ Spindle lock button
⑨ Cutting table	⑨ Cutting table
⑩ Quick-clamping device	⑩ Quick-clamping device
⑪ Flushing hose	⑪ Flushing hose
	⑫ Cutting handle

*Exotom/Exotom-M  
Instruction Manual*

*Details of Exotom*



*Details of Exotom-M*



**Noise Level**

Approx. 85 dB (A) measured at idle running, at a distance of 1.0 m/39.4" from the machine.

**Supplying Power**

***IMPORTANT***

Check that the mains voltage corresponds to the voltage stated on the type plate on the side of the machine.

Exotom/Exotom-M is factory mounted with electric cable. Mount a plug on the cable.

Black and Brown: phase  
Yellow/green: earth

*Direction of the Cut-off Wheel*

Check that the cut-of wheel rotates in the direction indicated on the label attached to the inner guard of Exotom/Exotom-M. If the direction of rotation is incorrect, switch two of the phases.

**Supplying Compressed Air**  
(Exotom Model only)

- Press the hose connection of the hose for compressed air into the inlet of Exotom placed on the left side of the machine.  
Fasten it with a hose clamp (12 mm).
- Connect the other end of the hose to the compressed air source by means of a hose clamp (12 mm).

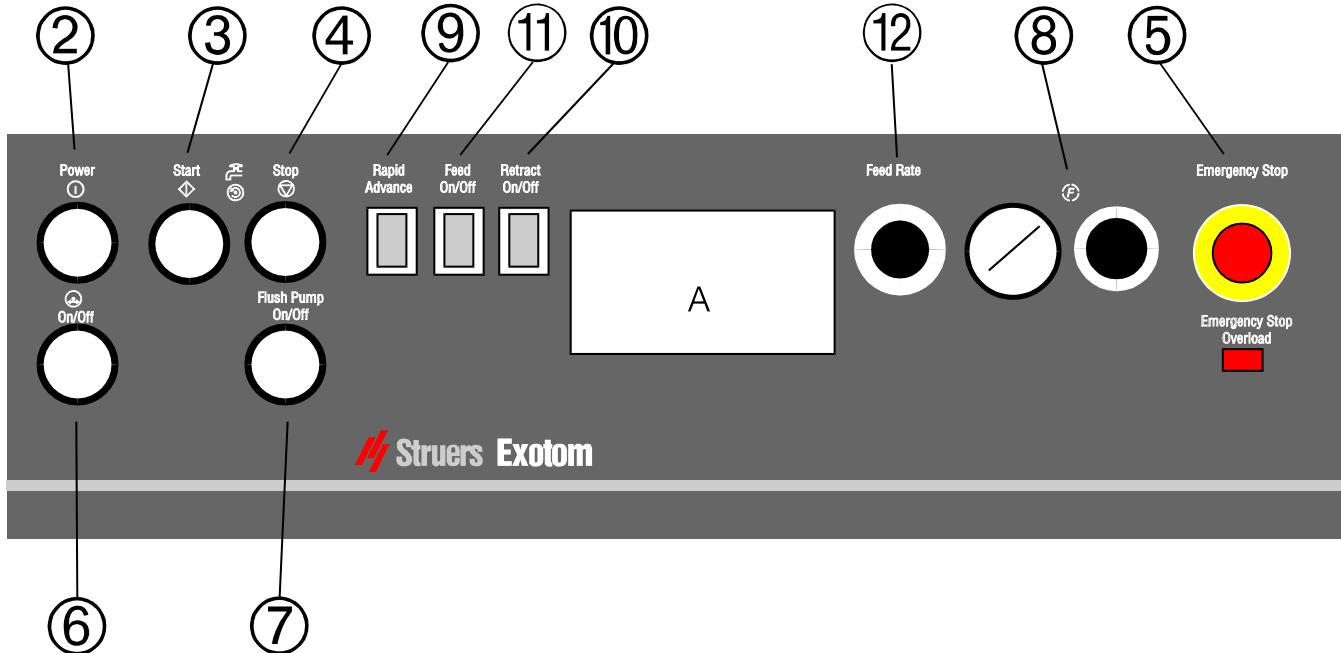
**Connecting the Recirculation Unit**  
(Both Exotom and Exotom-M)

- Place a disposable plastic insert (EXOSP) in the tank and fold it over the edge. The pre-punched holes should be in front of the overflow aperture in the tank.
- Place the cooling unit on the trolley and fill it up with 65 l of water i.e. 8-10 cm from the upper edge. Add additive in the quantity which is stated on the bottle label and stir a little.
- Put the lid on the tank and place the sieve and the pumps in the lid.
- Connect the two inlet hoses to the pumps.
- Place the tank in the cupboard and adjust the outlet hoses so that they discharge into the sieve.

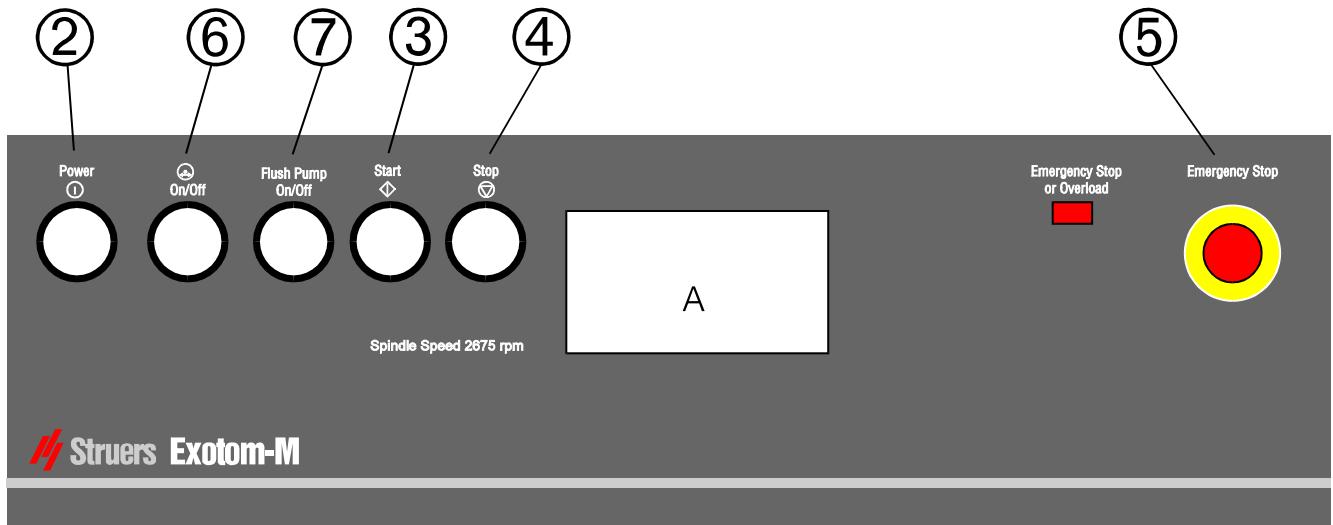
## 2. Operation

### Using the Controls

*Front Panel of Exotom*



*Front Panel of Exotom-M*



*Exotom / Exotom-M  
Instruction Manual*

**Front Panel Controls**

Name	Key	Function	Name	Key	Function
<b>Exotom and Exotom-M</b>					<b>Exotom only</b>
① MAIN SWITCH		Turns on the main power of the machine. The main switch is located on the left side of the machine.	⑧ FORCE		Adjusting knob for setting the force.
② POWER		Turns on/off the power of the machine. A switch for daily use. The button lights when activated.	⑨ RAPID ADVANCE		Moves the cut-off wheel down towards the sample for as long as the button is pressed. The button lights when activated.
③ START		Starts the machine, recirculation unit, and Excicut when in ON-position. The button lights green when the safety screen is closed and the button can be pressed.	⑩ RETRACT		When pressed shortly the cut-off wheel will return to its top position. At quick repress the return movement will stop. The button lights when activated.
④ STOP		Stops the machine, recirculation unit, and Excicut when in ON-position. The button lights red when it can be activated.	⑪ FEED		Moves the cut-off wheel down. The button lights when activated.
⑤ EMERGENCY STOP		Interrupts all functions. A red light indicates that the button has been activated or overload of the motors. Pull the button to release the light.	⑫ FEED RATE		Adjusting knob for setting the feed speed. The knob is provided with a locking pin. When it is pressed down it prevents a set speed rate from being unintentionally changed.
⑥ EXCICUT		Starts/stops the Excicut motion of the cut-off wheel. The button lights when activated.			
⑦ FLUSH PUMP		Starts/stops the water flush. The button lights when activated.			

### **Changing the Cut-off Wheel**

- Turn the finger grip to the left and swing the guard for the cut-off wheel open.
- Turn the cut-off wheel and press the button situated to the right so that it catches the flange and locks the spindle.
- Remove the nut by means of a fork spanner (32 mm).
- Remove the flange and the cut-off wheel.

***IMPORTANT***

Exotom/Exotom-M is left-hand threaded.

- Mount the new cut-off wheel with a cardboard washer on each side.
- Mount the flange and nut. Tighten carefully and close the guard.

### **Clamping the Sample**

- Place the sample between the clamp and the back stop.
- Push the clamp towards the sample, and lock the quick clamping device with the locking handle.

### **Positioning the Cut-off Wheel**

After clamping you may lower the cut-off wheel into position, min. 1 mm above the sample, to test the correct position of the cut on the sample:

- Press the button RAPID ADVANCE, to lower the cut-off wheel. The cut-off wheel stops when the button is released.
- Leave the cut-off wheel in position before you press the button START ◇.

### **Cutting on Exotom**

#### *Starting the Cutting*

- Position the cut-off wheel.
- Close the protection guard.
- Press the button START ◇. The cut-off wheel starts rotating and the cooling water starts running.
- Press the button FEED ON/OFF and the cut-off wheel will slowly move down into the sample.

#### *Stopping the Cutting*

- Exotom automatically stops cutting when the sample is cut through. The cut-off wheel moves to its top position, stops rotating and the recirculation unit is turned off.
- The machine can always be stopped by pressing the button RETRACT ON/OFF.
- The machine can be stopped at any time during operation by pressing the button STOP ⊗.

## **Cutting on Exotom-M**

### *Starting the Cutting*

- Close the protection guard.
- Press the button START . The cut-off wheel starts rotating and the cooling water starts running.
- Lower the cut-off wheel onto the sample by pulling the cutting handle slowly until it comes into contact with the sample. Do not apply much cutting pressure.
- Let the cut-off wheel work itself a little into the sample. Then increase the pressure and begin cutting. Keep the pressure constant.
- When the cut-off wheel is almost through the sample the cutting pressure should be reduced.

### *Stopping the Cutting*

- After cutting, return the cut-off wheel to top position. Stop the cut-off wheel and the cooling water by pressing STOP .

## **Excicut**

- To start and stop the Excicut feature, press the button EXCICUT ON/OFF .

## **Flushing the Cutting Chamber**

To ensure a longer lifetime of your Exotom, Struers strongly recommends cleaning of the cutting chamber with the flushing hose every day:

- Point the flushing hose towards the button of the cutting chamber.
- Press the button FLUSH PUMP ON/OFF to turn the water on. Adjust the flow by means of the lever on the spray nozzle.
- Clean the cutting chamber thoroughly.
- Turn off the water by pressing the button FLUSH PUMP ON/OFF again.

## **Refilling of Cooling Water**

- Refill cooling water in the tank by pouring the water through the sieve until the water level is 2-3 cm from the upper edge.

*NB!* Never refill by pouring the water in the cutting chamber as it would be impossible to check the increasing level in the tank.

### ***IMPORTANT***

Always maintain the correct concentration of Struers Additive in the cooling water (percentage stated on the container of the Additive). Remember to add Struers Additive each time you refill with water.

# Reference Guide

Table of Contents	Page
<b>1. Accessories</b>	
Cut-off Wheels .....	12
Accessories .....	13
<b>2. Maintenance</b>	
Cleaning .....	14
Recirculation Unit .....	14
<b>3. Service</b>	
Every Week .....	15
Every 10th Week.....	15
Every 6th Month .....	15
<b>4. Technical Data</b> .....	16

## 1. Accessories

### Cut-off Wheels

Application	Dimensions	Grinding agent	300 mm	Code
For direct and oscillating cutting of extremely hard steels (> 60HRC)	350x2.5x32mm	Al <sub>2</sub> O <sub>3</sub>		81EXO
For direct and oscillating cutting of steels (<60HRC). Extremely hard (white cast iron) or ductile (18/8 or St60) steel types are cut with oscillating cutting. Gives good wheel economy	350x2.5x32mm	Al <sub>2</sub> O <sub>3</sub>		83EXO
For cutting with Excicut. Universal cut off-wheel for steel-alloys less than 60 HRC and for general use.	350x2.5x32mm	Al <sub>2</sub> O <sub>3</sub>		8UEXO
Primarily for oscillating cutting of steels (<60HRC). Gives very good wheel economy	350x2.5x32mm	Al <sub>2</sub> O <sub>3</sub>		84EXO
For direct and oscillating cutting in non-ferrous metals. Primarily for oscillating cutting	350x2.5x32mm	SiC		86EXO
For direct cutting of titanium and its alloys, as well as other non-ferrous metals	350x2.5x32mm	SiC	56UNI	90EXO
For direct cutting of sintered carbides and ceramics	305x1.8x32mm 350x1.8x32mm	Diamond Diamond	25EXO	26EXO

*Exotom / Exotom-M*  
*Instruction Manual*

**Accessories**

<b>Specification</b>	<b>Code</b>
<i>Extra Clamping Table</i> additional table for support of very large work pieces.	UNFIT / EXOBA
<i>Quick Clamping Device</i>	UNIEL / UNIQI
<i>Clamping Tools</i> for Exotom.	UNIOF / EXOOF
<i>Fume Extractor Kit</i> for Exotom (connecting tube ø50 mm).	EXOKI
<i>Movable Cutting Table</i> for long cuts. To move the specimen parallel to the cut-off wheel, thereby increasing the cutting length up to 150 mm.	EXOLA
<i>Movable Cutting Table</i> for parallel cuts. Positions the specimen at right angle to the cut-off wheel. With dial (setting 0.1 mm) movable up to 100 mm.	EXOEL
<i>Disposable plastic inserts</i> for the recirculation unit tank, 10 pcs.	EXOSP

## **2. Maintenance**

### **Cleaning**

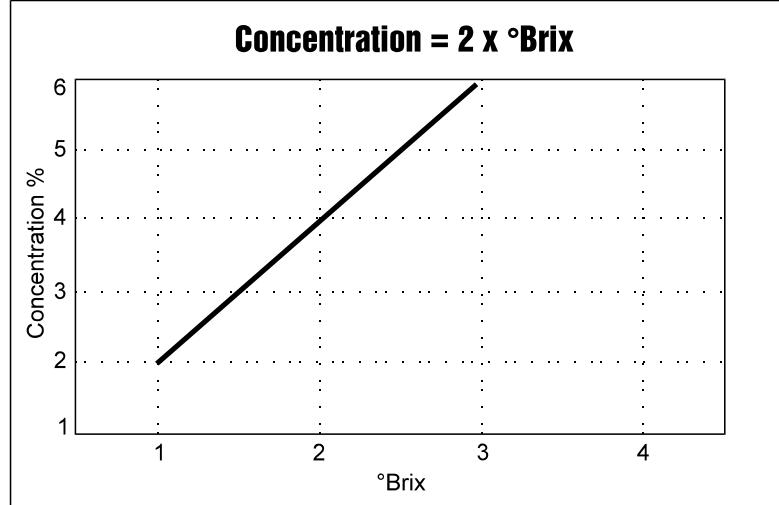
Wash the slot between disc screen and cutting arm clean every day.

The sieve must be emptied each day after a thorough washing down of the cutting chamber and, especially, the clamping table with the T-slots.

The flushing pump must be removed and the sieve cleaned at least once a week, or as necessary, depending on use.

### **Recirculation Unit**

The cooling unit should be checked for cooling water every week and refilled when the flushing pump cannot reach the cooling water. Remember to use Struers Additive (pH should be around 9). Replace if pH is  $\leq$  8.0. To check the concentration of Additive use a refractometer (0-10 Brix, see diagram.). Concentration =  $2 \times$  Brix.



### **3. Service**

#### **Every Week**

- Grease the nut for cut-off wheel spindle. Use water resistant grease.
- Spindle tightening. Remove the fixed flange and wash off any dirt behind the flange.

#### **Every 10th Week**

- Grease the eccentric bearing. Use the grease from the grease gun supplied with the apparatus. You gain access to the grease nipple by dismounting the round cover plate in the right side of Exotom. On Exotom-M, the grease should be applied through the centre of the fixing piece of the lever.

***IMPORTANT***

When the machine is in continuous function for 8 hours or more, grease the eccentric bearing every day.

#### **Every 6th Month**

- Belt tightening. Remove rear plate, release the motor; now tighten the belt using the bolt closest to the belt pulley. Remember to adjust the position of the motor so that it is at right angles to the belts before the motor is fixed again.
- Check the oil level. While the rear plate is removed the oil level can be checked on the reservoir tubes. Each mark corresponds to an extreme position of the cutting arm. R1 should be at the upper marking and R2 at the lower marking when the cut-off wheel is in its upper position. *When filling up and changing the oil, please use Shell Tellus 32.*
- Grease the power transmission part. While the rear plate is dismantled the guide block is greased.
- Use Shell Albida Grease LX for greasing the eccentric shaft and the quick clamping device as well as the power transmission part. If the cut-off wheel spindle is serviced, the gasket ring should be greased with special water resistant grease, e.g. Staburags NBU 12.

## 4. Technical Data

Subject	Specifications		
	Metric/ International	US	
Compressed air supply	Pressure: 6-9.9 bar Consumption: approx. 4 l/min		
Cutting motor		5.5 kW	7.5 HP
Cooling pump Capacity	Approx. 80 l/min (50 Hz) Approx. 96 l/min (60 Hz)		
Flushing pump Capacity	Approx. 50 l/min (50 Hz) Approx. 60 l/min (60 Hz)		
Cooling tank Volume	65 l		
Cut-off wheel		350 mm x 32 mm x 2.5 mm	13.8" x 1.25" x 0.1"
Cutting speed	50 m/s at 2675 rpm		
Max. diameter of work piece		110 mm	4.3"
	Max. length of cut, for a work piece Max. thickness of cut, for a work piece	250 mm approx. 40 mm	1.6"
Max. dimensions of work piece	Thickness Width Length (longer sections of bar and rod can be accommodated)	140 mm 475 mm 600 mm	5.5" 18.7" 23.6"
Cutting Tables	Cutting table Extra table	300 x 300 mm 150 x 300 mm	(12" x 12") (6" x 12")
Noise Level	Approx. 85 dB (A) measured at idle running, at a distance of 1.0 m/39.4" from the machine.		
Voltage/ frequency/ Max. current consumption	3 x 200 V/50-60 Hz 3 x 220 V/50-60 Hz 3 x 380 V/50 Hz 3 x 415 V/50 Hz 3 x 440 V/60 Hz 3 x 480 V/60 Hz 3 x 500 V/50 Hz	24.8 A 23.5 A 13.8 A 13.8 A 13.6 A 13.6 A 11.0 A	
Dimensions and Weight	Width	660 mm	26"
	Depth	900 mm	35.4"
	Height	1650 mm	65"
	Weight	390 kg	

# **Exotom**

# **Exotom-M**



Manual No.: 13817001

Date of Release: 12.08.1998

Revised: 01.06.2002

## Spare Parts and Diagrams





*Exotom / Exotom-M  
Spare Parts and Diagrams*

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## 1. Spare parts and Diagrams

### Table of contents

#### Photos and drawings

Fig	Title
1	Exotom, complete
2	Exotom-M, complete
3	Exotom, front
4	Exotom-M, front
5	Fastening the cutting wheel
6	Cleaning the cutting table
8	Exhaust
9	Motor, details
10	Front, details
11	Lights, details
12a/b	V-belt, belt guard
13	Protection screen
14	Mounting strip, horizontal
15	Mounting strip, oblique
16	Flange and spindle
17	Cutting wheel guard
18	Oil reservoir and valves
19	Belt pulley
20	Pulley for gear motor
21	Cutting table
22	Cooling tank and trolley
23	Hose branch
24	Hose branch
25	Hexagonal nipple
26	Tube branch
27a/b	Cylinder and shock absorber
28	Mounting plate for electronics and hydropneumatics
29	Water expeller/filter unit
30	Emergency stop, Manometer
31	Throttle valves
32	Main switch and fuses
33	Transformers and relays
34	PCB console
35	Door, locking device
36	Arm
37a/b	Belts
38	V-belt motor, detail
50	Spindle arm
51	Eccentric shaft
51-M	Eccentric shaft, Exotom-M
52	Spindle lock case
53	Quick-clamping house

*Exotom / Exotom-M  
Spare Parts and Diagrams*

List of special parts for Exotom-M

**Diagrams**

*Exotom*

Pneumatic diagram .....	13810147A
Power circuit diagram .....	13810065A
Wiring diagram.....	13810266B
Control circuit diagram for auto model .....	13810272D
Logic control diagram .....	13810384C
Component illustration logic control board.....	13810388C

*Exotom-M*

Wiring diagram, Exotom-M.....	14100105
Control circuit diagram, Exotom-M .....	14100111D
Diagram for inductive supply and relay, Exotom-M.....	14100150B
Component Illustration, Exotom-M.....	14100155

The drawings are not to scale. Some of the drawings may contain position numbers not used in connection with this manual.

*Exotom / Exotom-M  
Spare Parts and Diagrams*

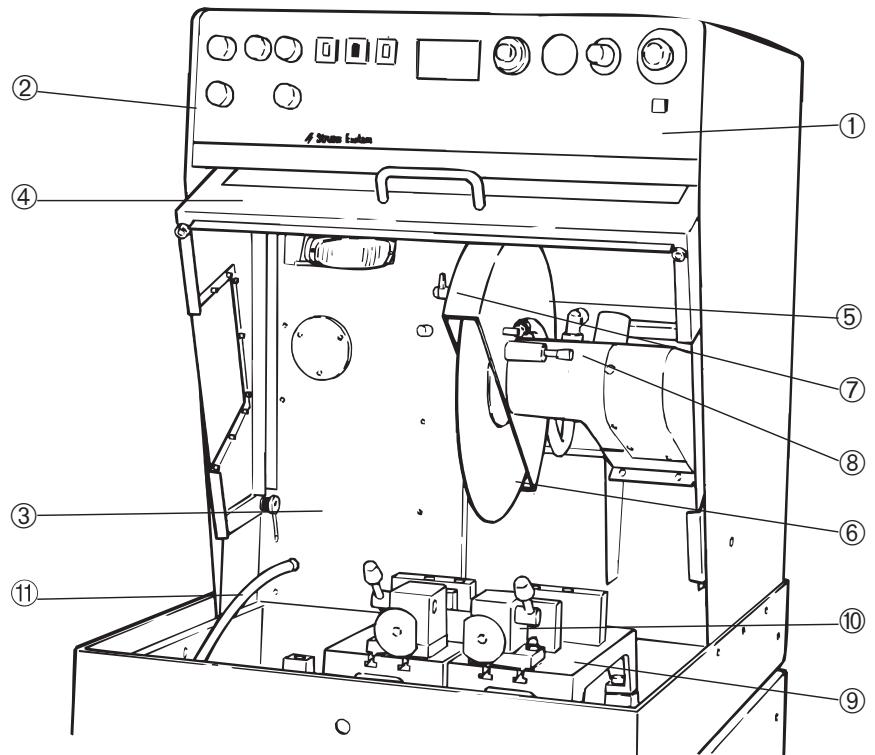
# **Photos and Drawings**

*Exotom / Exotom-M  
Spare Parts and Diagrams*

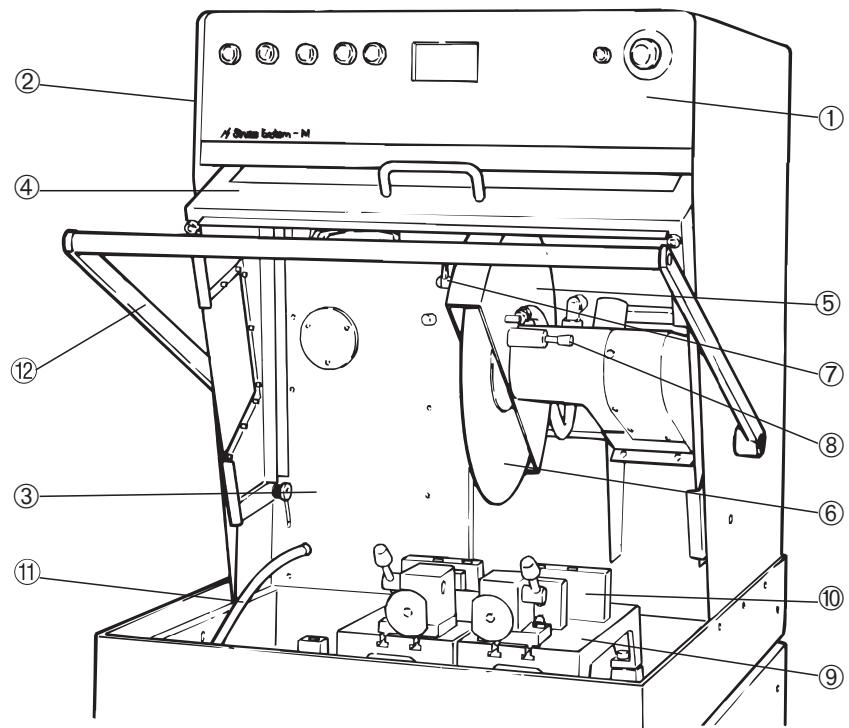
**Pos. and Description**

**Cat. No.**

**Fig. 1 Exotom, complete**



**Fig. 2 Exotom-M, complete**

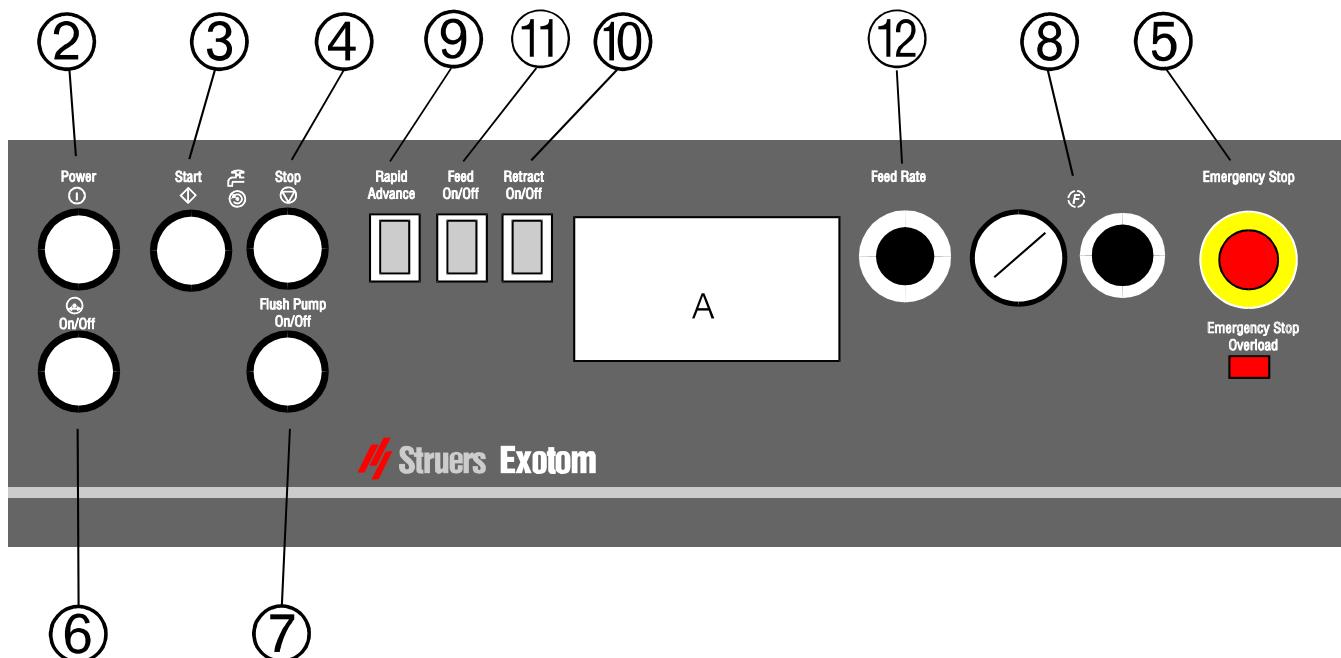


**Cat. No.**

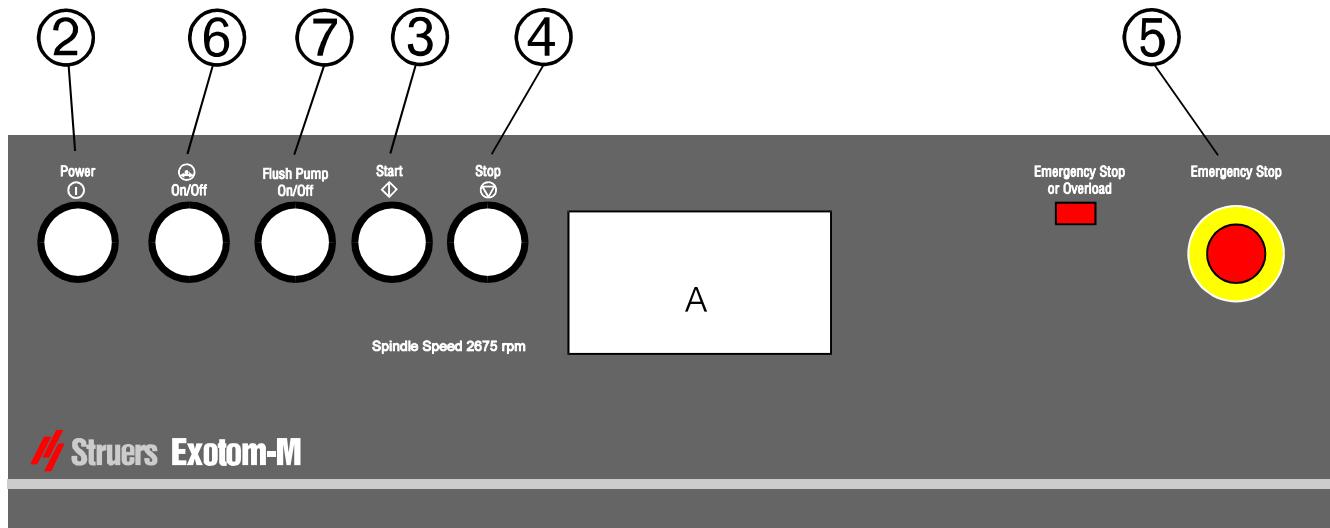
**Fig. 3 Exotom, Front**

**Pos. and Description**

Front plate with foil, Exotom-M ..... 14100082



**Fig. 4 Exotom-M, Front**

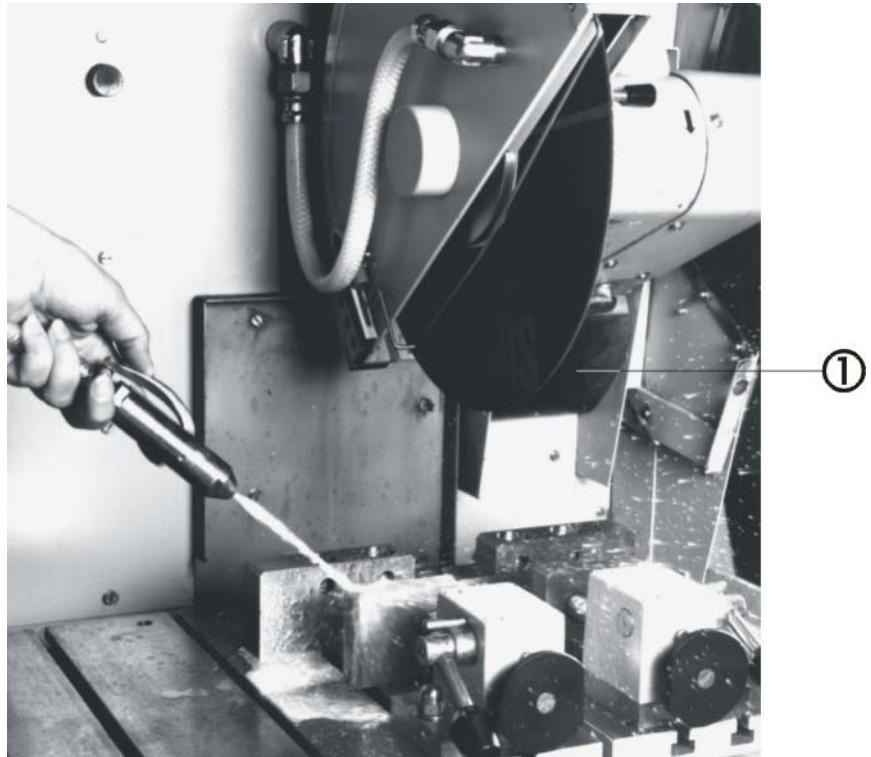


<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Rubber cover, lower.....	13810726

**Fig. 5 Fastening  
the Cutting Wheel**



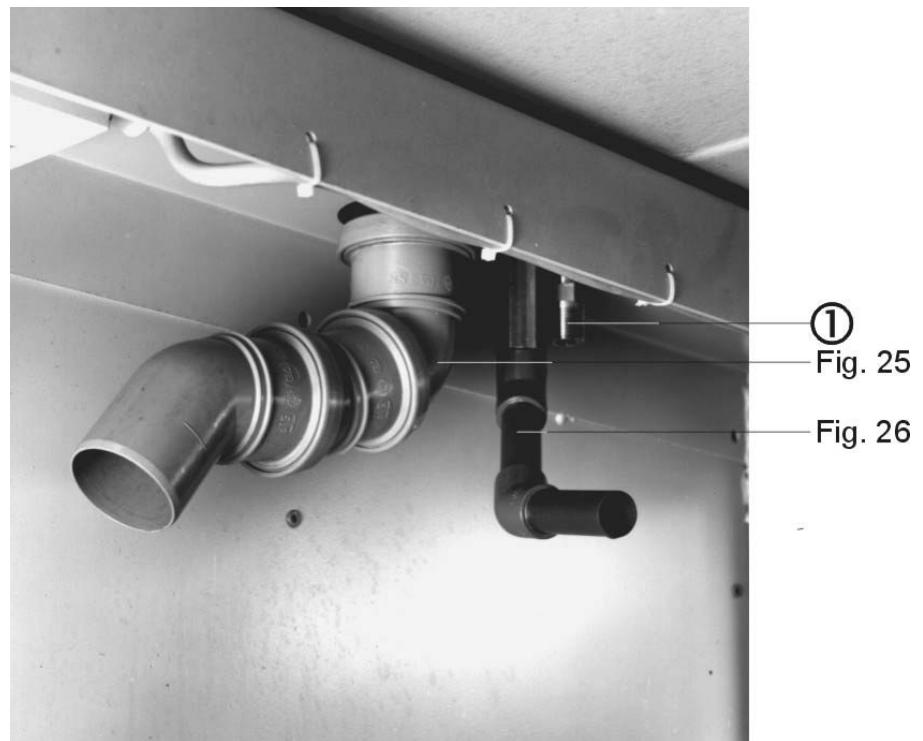
**Fig. 6 Cleaning  
the Cutting Table**



*Exotom / Exotom-M  
Spare Parts and Diagrams*

<b>Pos. and Description</b>	<b>Cat. No.</b>
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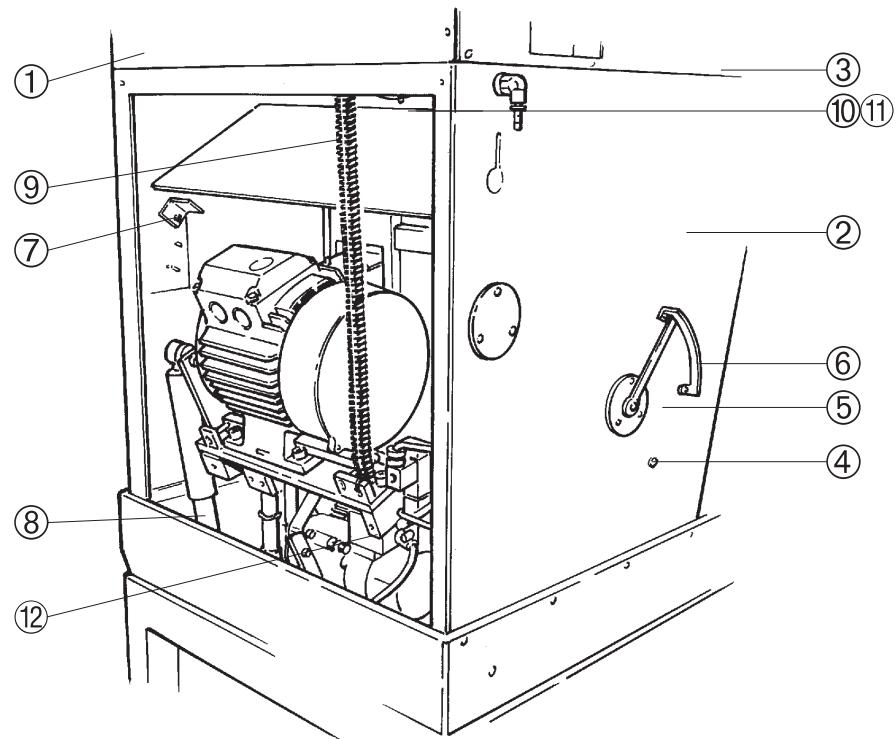
**Fig. 8 Exhaust**



*Exotom / Exotom-M*  
*Spare Parts and Diagrams*

<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Top rear plate .....	13819053
1 Back Plate (Removed = not visible on figure) .....	13819044
2 Lower Casing .....	R3819049
3 Mounting Plate (Hidden = not visible on figure) .....	13819054
3 Top plate .....	13819045
4 Cover for pointer .....	13819051
5 Pointer .....	13819002
6 Dial for pointer .....	381MP295
7 Stop for protection screen .....	381MP007
Stop for spindle arm, Exotom-M.....	14108001
8 Cast bed .....	13819033
Column (Exotom-M) .....	14108004
Bumper (Exotom-M).....	2GS00315
9 Spring.....	13810135
10 Thread plate for lower plate (9.2).....	13818002
Grease gun.....	381MP415
Cardboard discs, 25 pcs.....	381MP431
Angle for pulley .....	381MP387
11 Pulley .....	13810129
12 Gas Spring Replacement Kit, see fig. 15.....	13810115

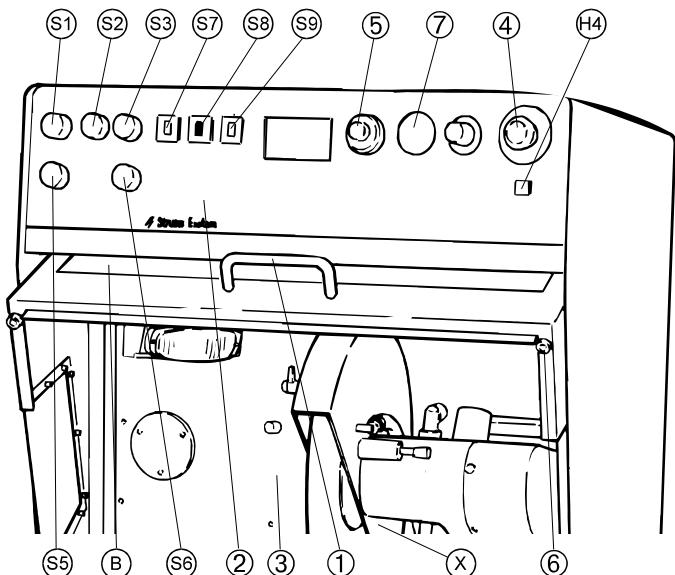
**Fig. 9 Motor, Details**



*Exotom / Exotom-M  
Spare Parts and Diagrams*

<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Handle.....	2GH20002
2 Front Plate without foil .....	381MP353
2 Front plate foil.....	13810209
4 Emergency stop push button without switch element S4 .....	381MP439
5 Bourns Dial.....	381MP412
Cable entry .....	381MP291
Fork wrench.....	2GR00232
Socket spanner for jaw .....	2GR00313
6 Stop knob for protection screen .....	13810490
7 Manometer.....	13810238
S1,S5,S6 Push button S1, S5, S6 without switch element.....	381MP249
S2 Push button, S2 .....	381MP250
S3 Push button, S3 .....	381MP251
Push button symbol, set.....	13810230
S1-S6 Push button cap .....	2SA30102
S7-S9 Push button S7-S9 .....	2SA40066
S7-S9 Push button cap, S7-S9.....	R3810258
Bulb, S7-S9 .....	2HG10002
Inset (3 pcs.) S7-S9.....	2SA41200
B Sensor B1, Exotom, protective cover closed .....	381MP436A
B Sensor B1, Exotom-M, protective cover closed .....	381MP336
H4 Lamp H4 (red) .....	2HK20342

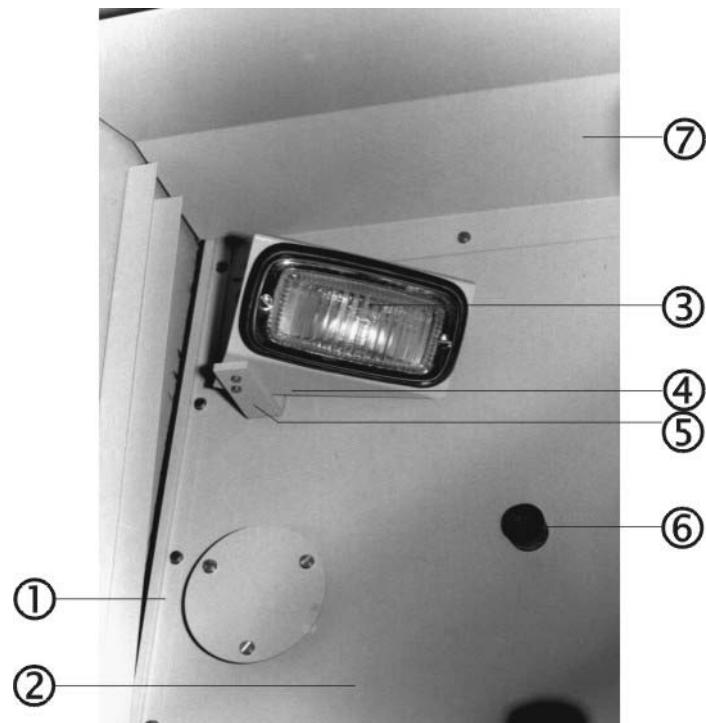
**Fig. 10 Front, Details**



*Exotom / Exotom-M  
Spare Parts and Diagrams*

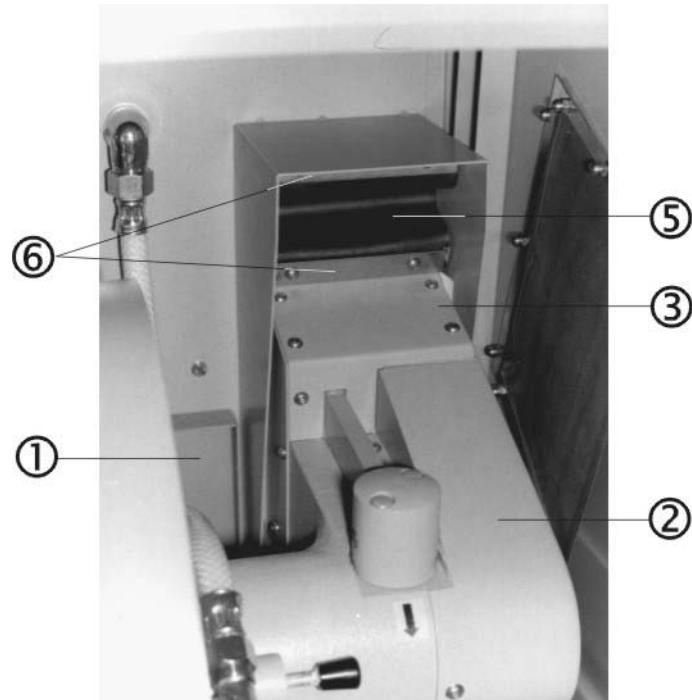
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Sweep strip .....	381MP363
2 Intermediate plate.....	13819064
3 Lamp .....	381MP264
Bulb for 381MP264 .....	381MP265
Glass for 381MP264 .....	2HW00002
4 Lamp angle/plate.....	13819068
Lamp console .....	13819067
Bumper .....	2GS00120
7 Baffle .....	381MP426

**Fig. 11 Lights, Details**

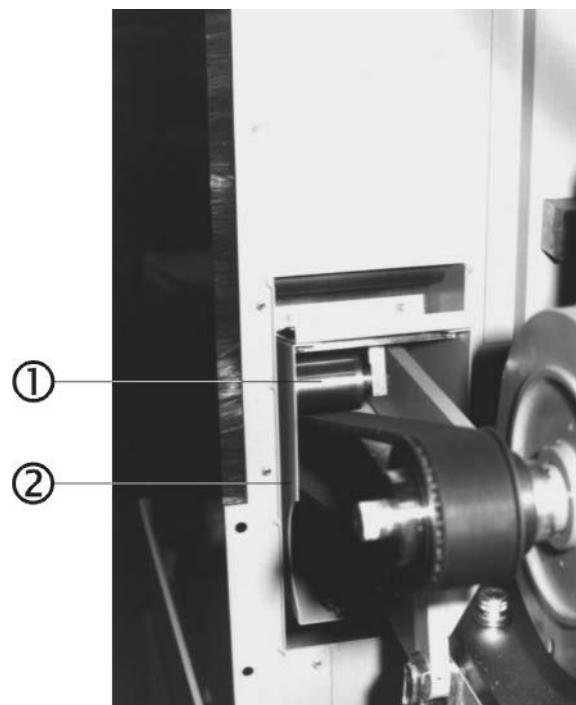


<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Baffle .....	381MP361
2 V-belt guard, front .....	R3819048
3 V-belt guard, upper .....	381MP364
4 V-belt guard, lower .....	381MP365
5 Rubber cover, upper .....	13810725
6 Mounting strip for rubber cover .....	381MP368

**Fig. 12a V-belt, Guard**

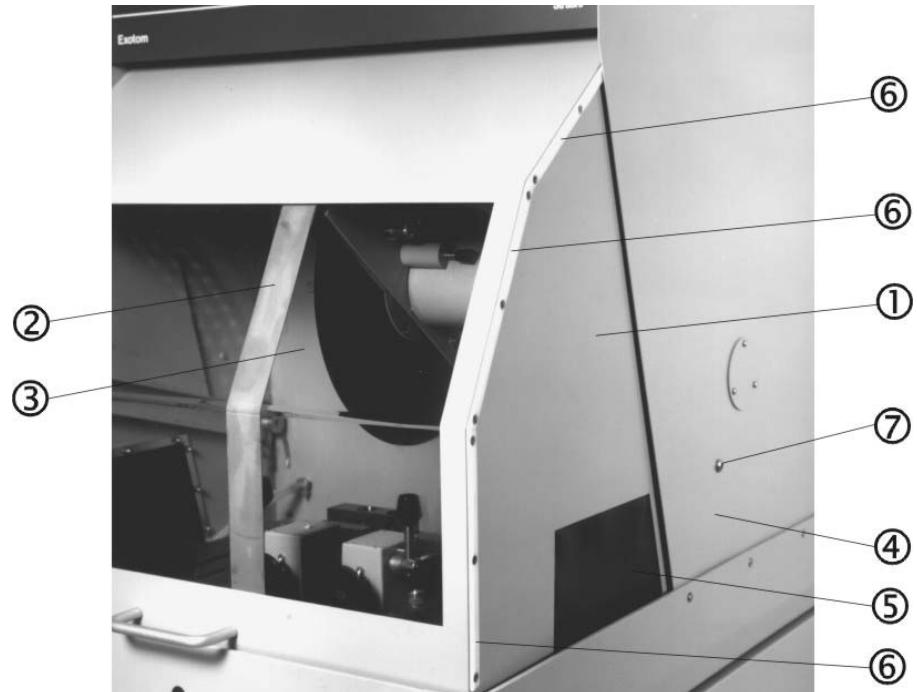


**Fig. 12b V-belt, Wheel**



<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Protection screen, complete .....	381MP390
2 Window pacton .....	381MP032
3 Protection rail.....	13818002
5 Rubber plate .....	381MP036
7 Bolt, with washer .....	381MP427
6 Slide strip complete.....	13810464
Sealing band for window, 2 m .....	2IP00401
Window strip, horizontal .....	381MP040
Window strip, lower vertical.....	381MP041
Window strip, upper vertical .....	381MP042

**Fig. 13 Protection Screen**



*Exotom / Exotom-M  
Spare Parts and Diagrams*

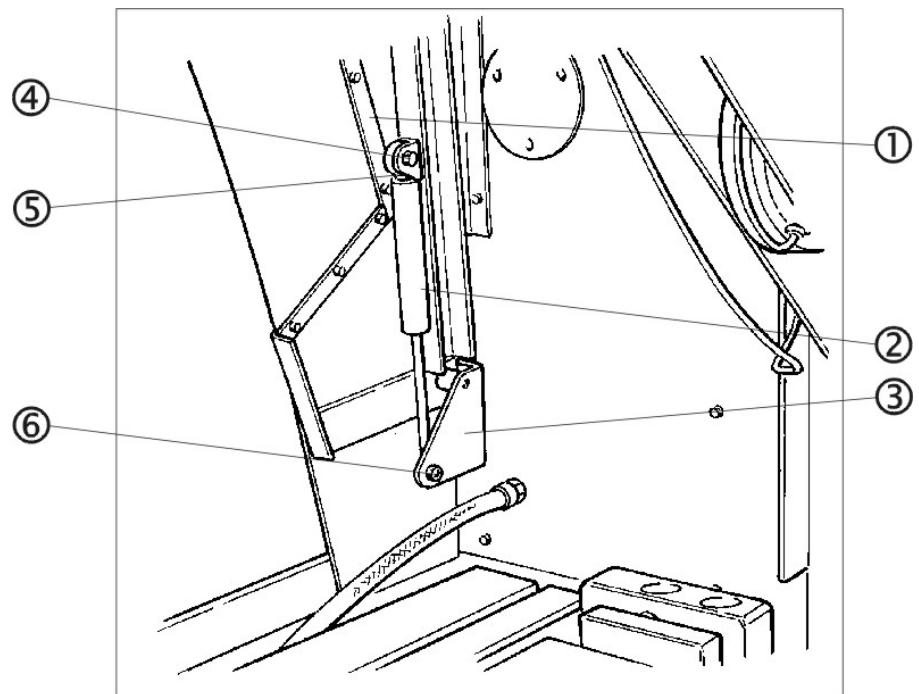
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Rubber plate .....	13810515
2 Mounting strip, horizontal.....	381MP370
3 Mounting strip, vertical, right hand side.....	381MP371
4 Mounting strip, vertical, left hand side .....	381MP369

**Fig. 14 Mounting Strip,  
Horizontal**



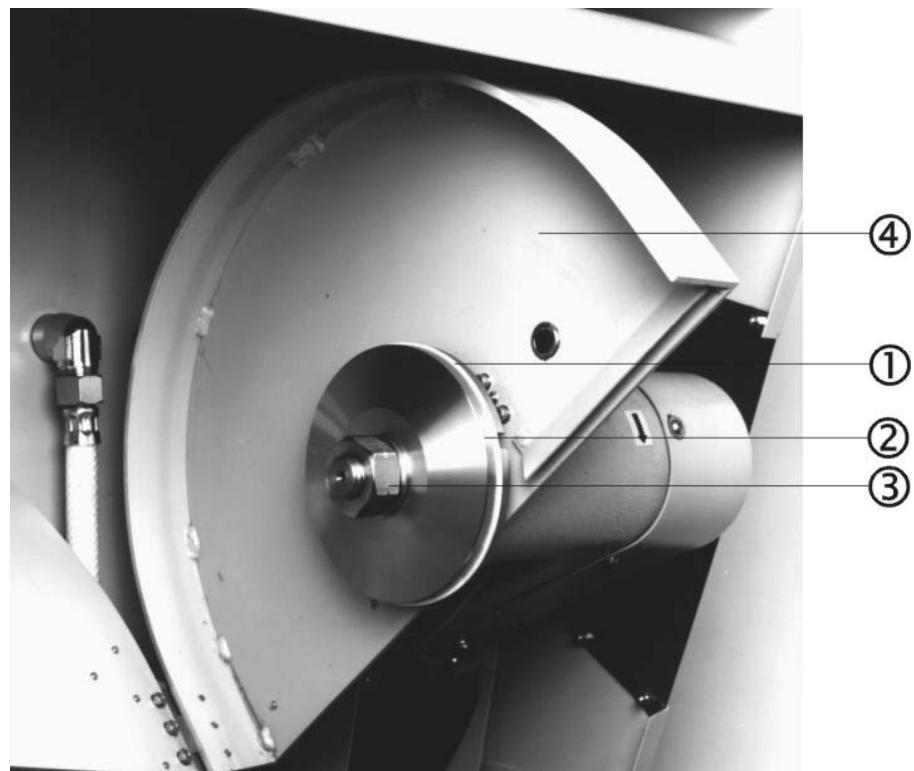
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Mounting strip, oblique.....	381MP369
2 Gas Spring 150N Lift-o-Mat 580 .....	2YS00422
3 Bottom holder, left-hand side .....	13810149
Bottom holder, Right-hand side .....	13810148
4 Shaft for top holder .....	13810143
5 Top holder for U-rail .....	13810139
6 Shaft for bottom holder.....	13810144

**Fig. 15 Mounting Strip, Oblique**



<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Flange, inside .....	381MP433
2 Flange, outside .....	381MP043
3 Spindle nut (left-hand tread) .....	13810122
4 Cutting wheel guard .....	381MP394
4 Cutting wheel guard, complete.....	13810403

**Fig. 16 Flange and Spindle**



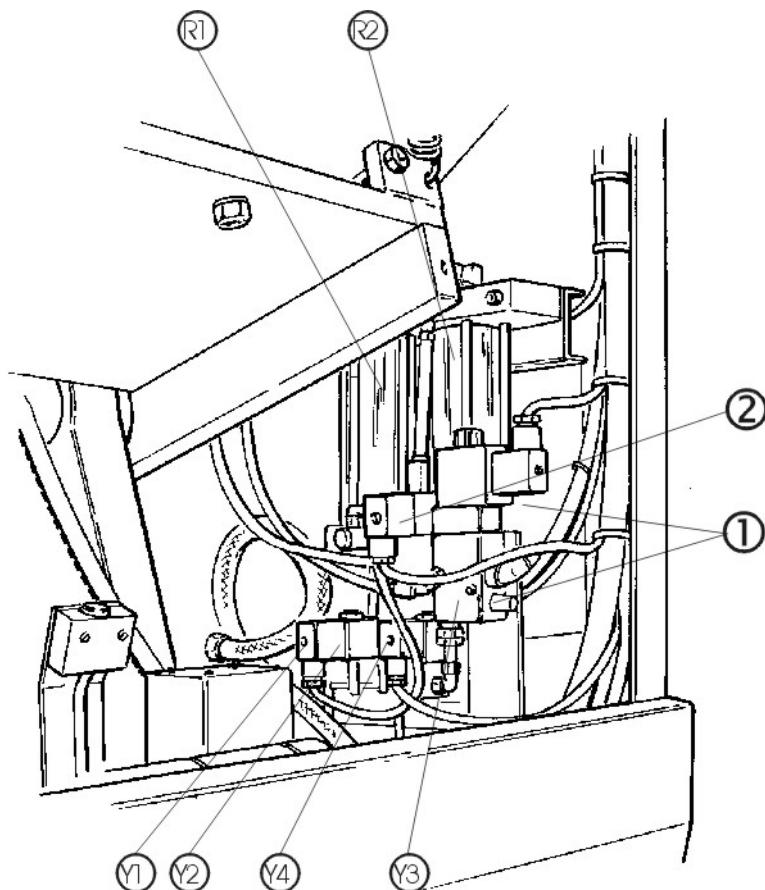
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Door for cutting wheel guard.....	381MP429
2 Hinge for cutting wheel guard.....	381MP078
3 Sensor strap.....	13810453
4 Door locking device.....	381MP082
5 Guide for strap .....	381MP420
6 Baffle and spark plate.....	381MP361
B Sensor B2,.....	381MP263

**Fig. 17 Cutting Wheel Guard**



<b>Pos. and Description</b>	<b>Cat. No.</b>
R1+R2 Oil reservoir (R1 + R2) .....	381MP338
Y1+Y2 Solenoid valve, Y1, Y2, Y5 .....	2YM10001
Y3 Solenoid valve, Y3 .....	2YM10005
Y4 Solenoid valve, Y4 .....	394MP058
1 Silencer for Y3 .....	2YL00010
2 Silencer for Y4 .....	2YL00005
Fitting, CK-1/8-PK-6-KU .....	2NF20017
Fitting, CK-1/8-PK-4-KU .....	381MP194
Fitting, CK-1/8-PK-3-KU .....	2NF20090
Fitting, ACK-1/4-PK-4 .....	2NF10018
Angle fitting GCK-1/4-PK-4-KU .....	2NF10087
Angle fitting GCK-1/8-PK-6-KU .....	2NF20054
Angle fitting GCK-1/8-PK-4-KU .....	381MP199
Distributor FCK-3-PK-6-KU.....	2NF20104
Double nipple E-1/8-1/8.....	2NF40011
Oil, 1 l.....	381MP204

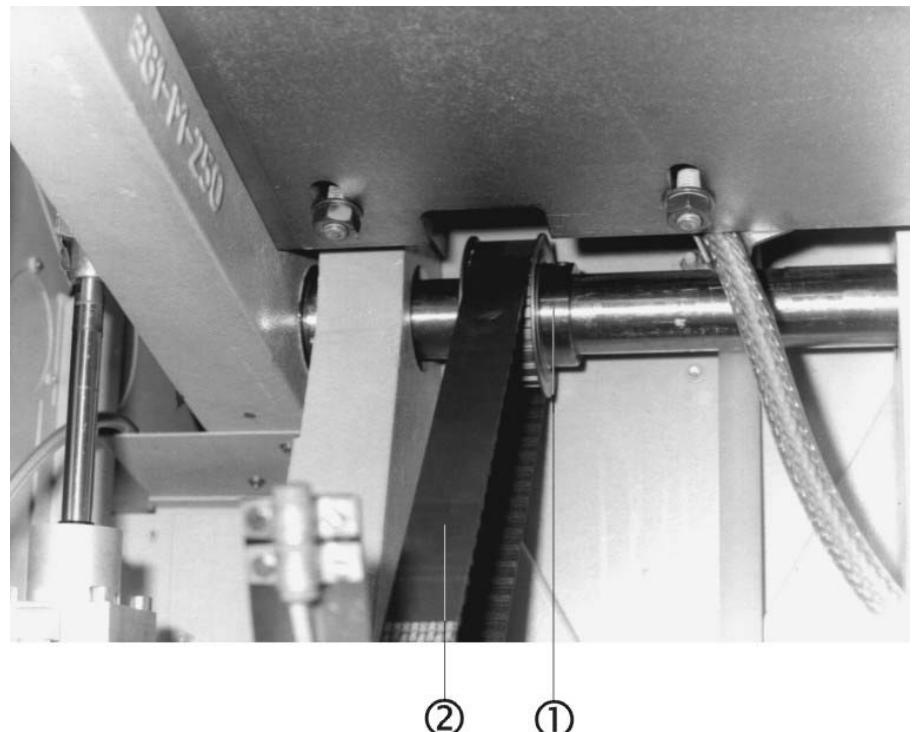
**Fig. 18 Oil Reservoir  
and Valves**



*Exotom / Exotom-M  
Spare Parts and Diagrams*

<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Timing belt pulley, spindle .....	381MP104
2 Timing Belt 322L 100, L=819,15 .....	2JT00025

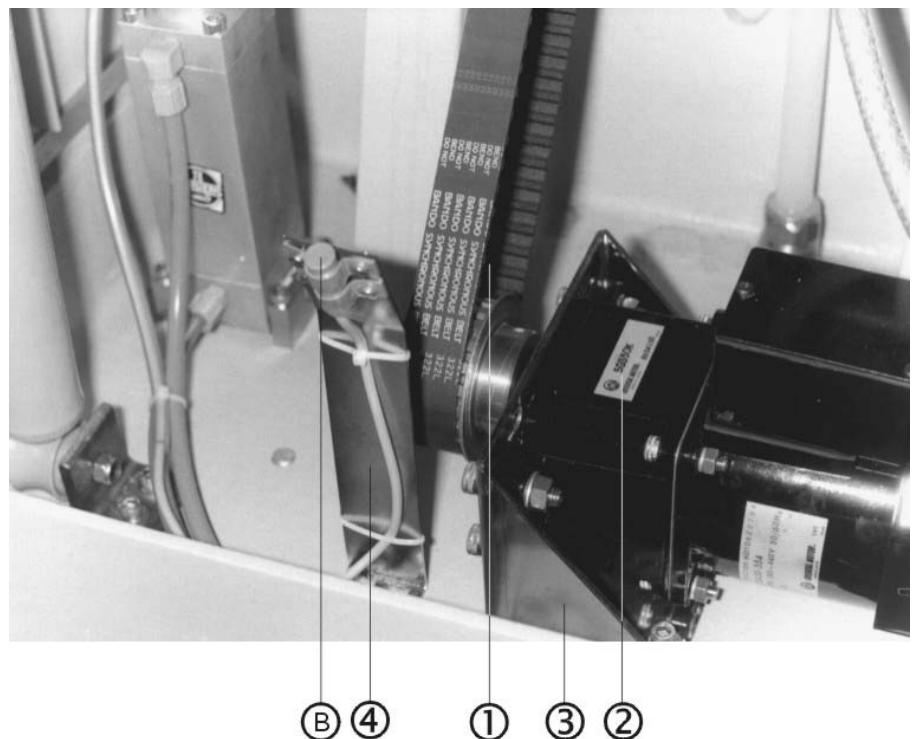
**Fig. 19 Belt Pulley**



*Exotom / Exotom-M  
Spare Parts and Diagrams*

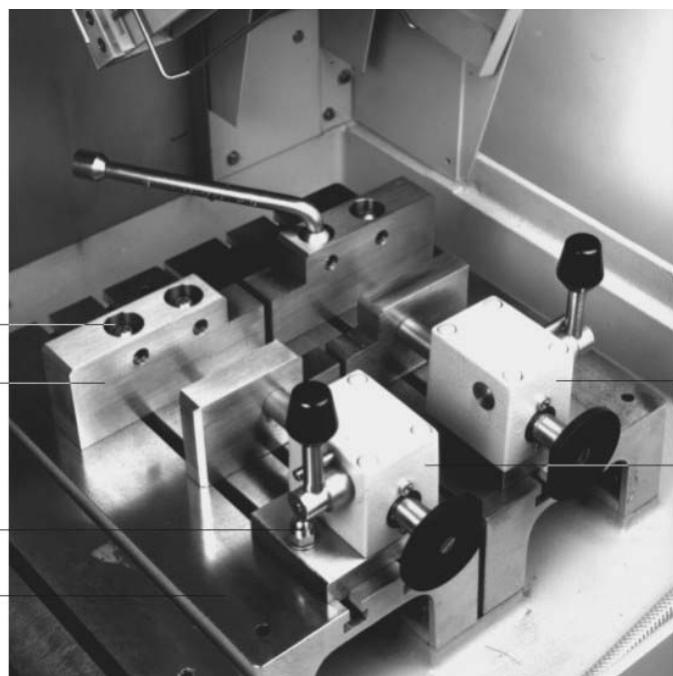
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Timing belt pulley for gear motor .....	381MP106
2 Eccentric motor 3x220V/50-60Hz .....	13810810
2 Eccentric motor 3x380-500V/50-60Hz.....	381MP214
3 Motor bracket .....	381MP283
4 Console for sensor .....	381MP296
B Sensor B3, arm position up.....	381MP436B

**Fig. 20 Pulley for Gear Motor**



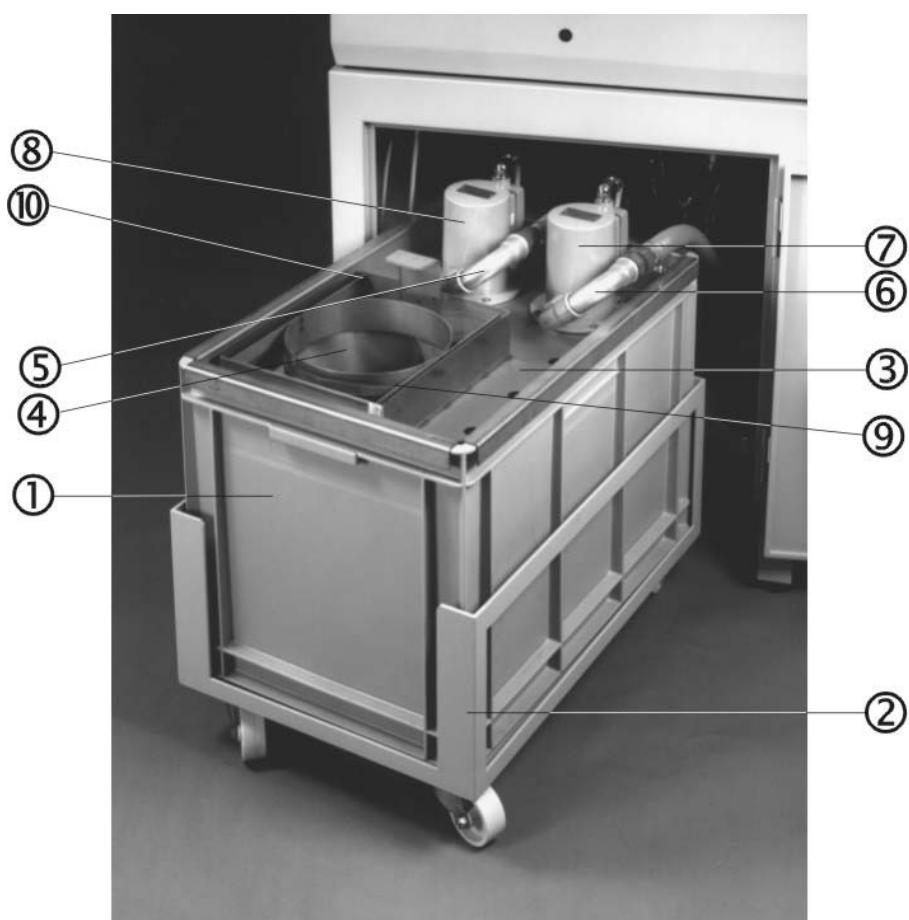
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 UNIFT, Cutting table with 10mm T-slots .....	03816901
1 UNIBA; Replacement Stainless Steel Bands.....	05336905
2-8 Fixed jaw, with T-screws for 10mm T-slots .....	R5330310
3-6 UNIRI, Quick-clamping device, complete, right for 10mm T-slots .....	05336907
7 UNILE, Quick-clamping device, complete, left for 10mm T-slots .....	05336906

**Fig. 21 Cutting Table**



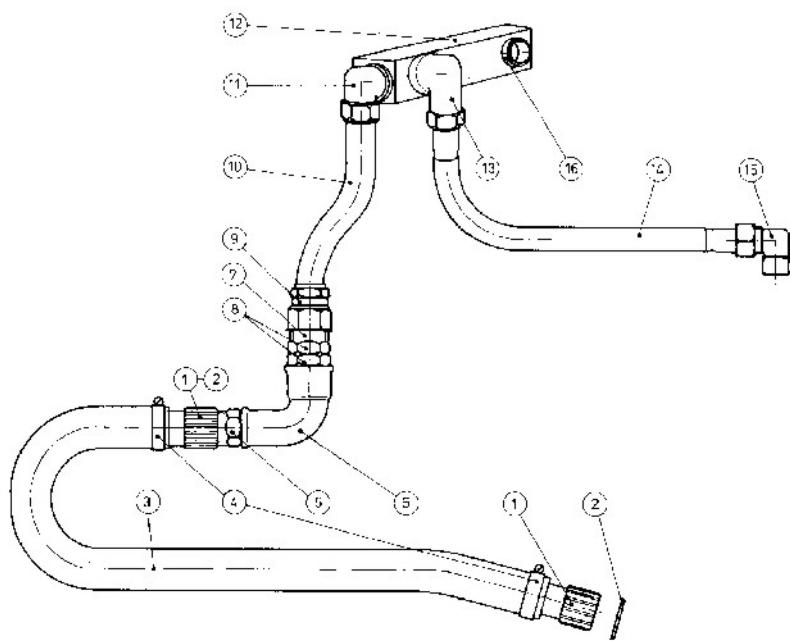
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Cooling tank .....	381MP140
Lid for cooling Tank .....	381MP142
2 Trolley .....	381MP430
3 Lid .....	381MP142
4 Sieve for return water .....	14980071
5 Elbow joint for flush pump (1/2").....	381MP144A
6 Elbow joint for cooling pump (3/4") .....	381MP145A
7 Pump, cooling. (3 x 220 - 240V/ 50 Hz).....	381MP408A
7 Pump, cooling. (3 x 380 - 440V/ 50 Hz).....	381MP408A
7 Pump, cooling. (3 x 200 - 220V/ 60 Hz).....	381MP409A
7 Pump, cooling. (3 x 380 - 480V/ 60 Hz).....	381MP409A
8 Pump, flushing (3 x 200 - 240V/ 50-60Hz) .....	381MP410A
8 Pump, flushing (3 x 380 - 480V/ 50-60Hz) .....	381MP410B
Sieve for Pump, 2AB4 (Ø99) .....	14980074
9 Clamp for sieve.....	2NS20215
10 Holder for sieve .....	315MP052

**Fig. 22 Cooling Tank  
and Trolley**



<b>Pos. and Description</b>	<b>Cat. No.</b>
1+2 Hose branch with union nut and gasket.....	2NG20065
3 Hose .....	2NU20325
4 Hose clamp.....	2NS12409
5 Hose branch .....	2NG20070
6 Elbow .....	2NG10002
7 Nipple.....	13810682
8 Nut .....	381MP152
9 Reduction socket.....	381MP153
10 Delivery pipe.....	2NP10014
11 Elbow, 90° .....	2NG10040
12 Distribute branch .....	13810680
13 Elbow, 90° .....	13810684
14 Delivery hose .....	2NU90020
15 Elbow .....	2NF40098
16 Nipple.....	381MP333

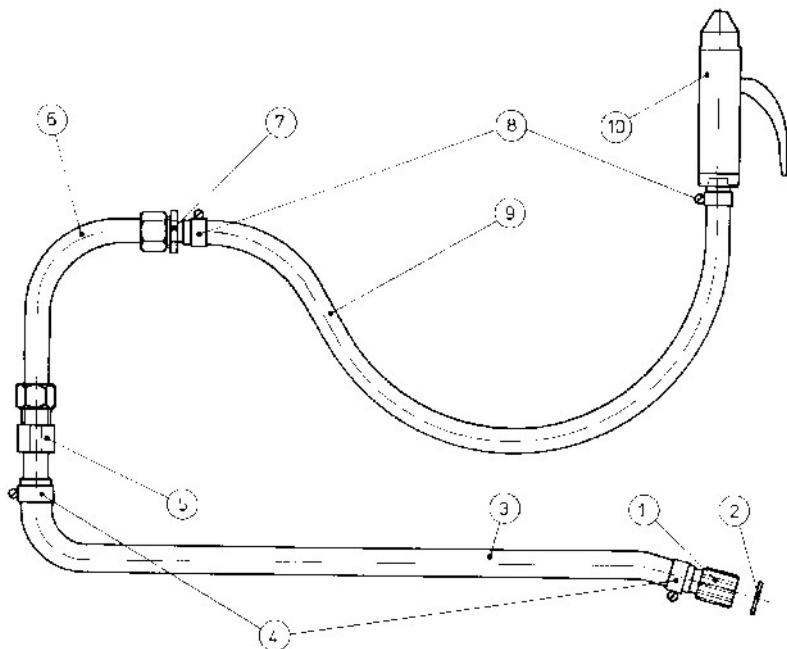
**Fig. 23 Hose Branch**



*Exotom / Exotom-M*  
*Spare Parts and Diagrams*

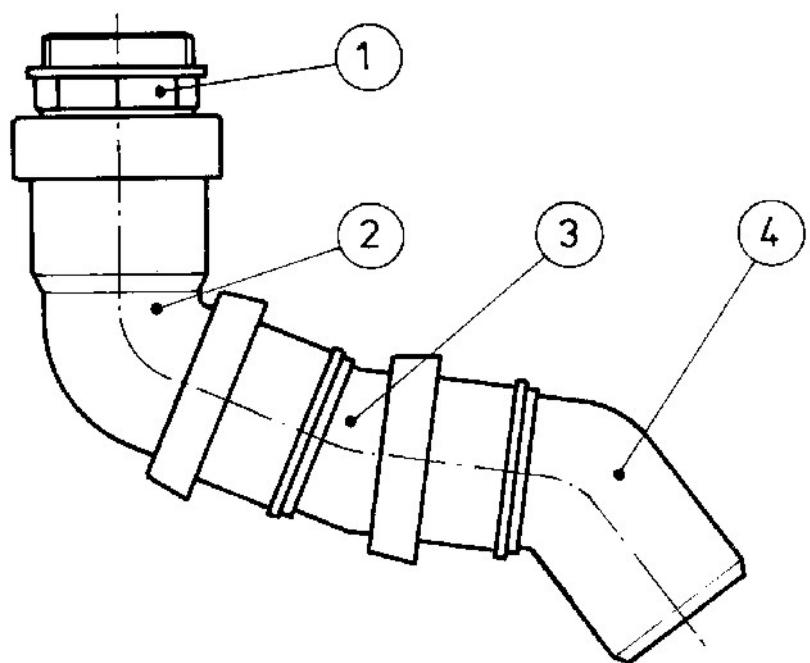
<b>Pos. and Description</b>	<b>Cat. No.</b>
1+2Hose branch with union nut and gasket.....	2NG20063
3 Hose .....	2NU20316
4 Hose clamp.....	2NS11309
5 Reducing nipple.....	13810689
6 Hose .....	2NU90021
7 Hose branch.....	2NF40086
8 Hose clamp.....	2NS11309
9 Hose .....	2NU29310
10 Water gun .....	381MP168

**Fig. 24 Hose Branch**



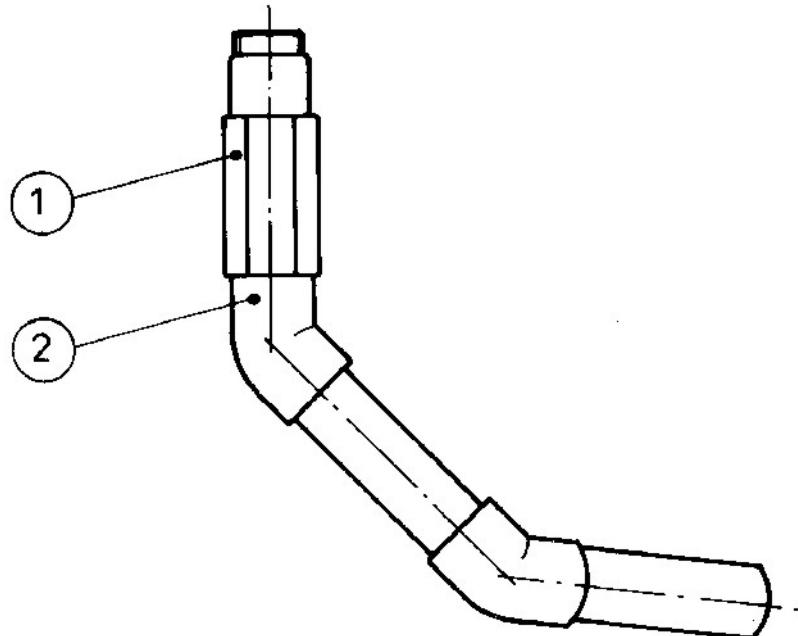
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Hexagonal nipple.....	13810688
2 Elbow (67,5°) with rubber ring .....	2NG20567
3 Elbow (15°) with rubber ring .....	2NG20515
4 Elbow (45°) with rubber ring .....	2NG20545

**Fig. 25 Hexagonal Nipple**



<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Branch.....	381MP418
2 Outlet hose.....	381MP419

**Fig. 26 Tube Branch**



*Exotom / Exotom-M  
Spare Parts and Diagrams*

**Pos. and Description**

**Cat. No.**

**Fig. 27a Cylinder**

Cy Cylinder (Cy) ..... R3810540

**Pos. and Description**

**Cat. No.**

**Fig. 27b Shock Absorber**

- |   |                      |          |
|---|----------------------|----------|
| 1 | Shock absorber ..... | 2GS10001 |
| 2 | Top Bracket .....    | 381MP321 |
| 3 | Bottom Bracket ..... | 381MP322 |
| 4 | Distance bush .....  | 381MP323 |
| 5 | Bolt, upper .....    | 381MP324 |
| 6 | Bolt, lower.....     | 381MP325 |

Fig. 27a    Cylinder

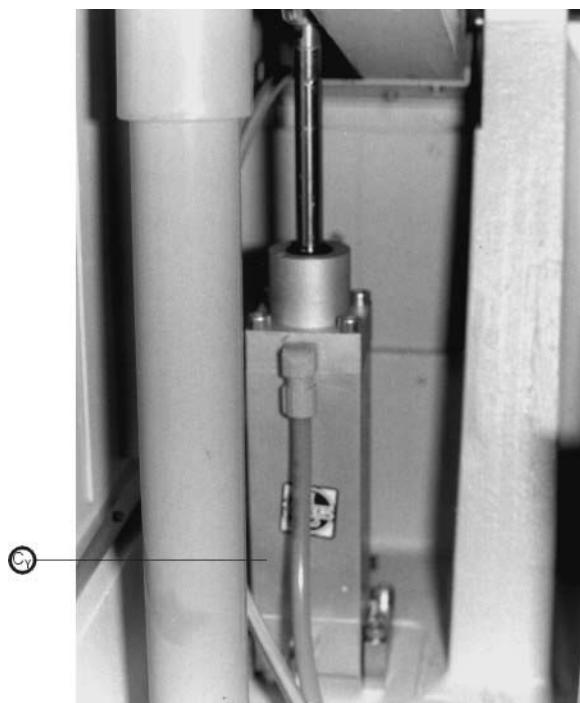
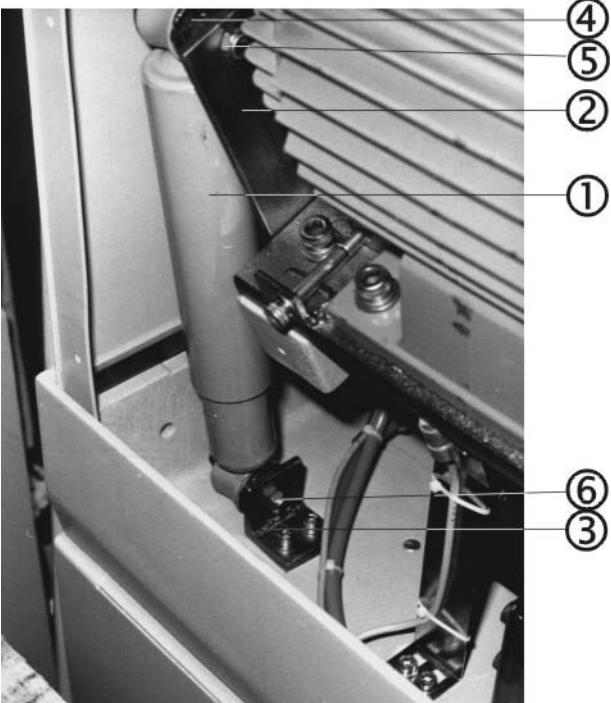


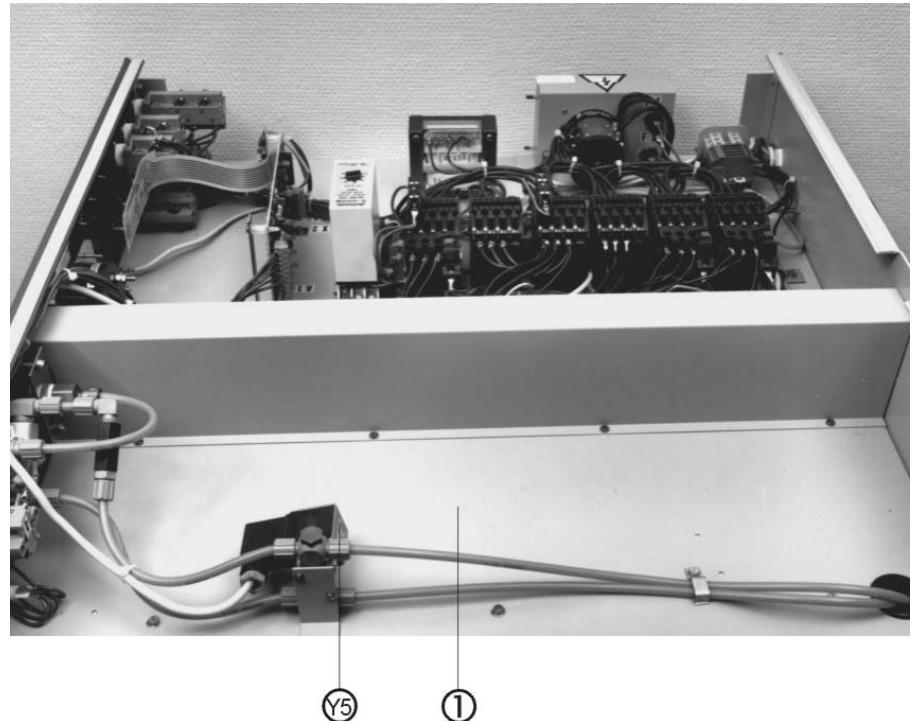
Fig. 27b    Shock Absorber



*Exotom / Exotom-M  
Spare Parts and Diagrams*

<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Mounting plate for electronics and hydro-pneumatics.....	13819014
Y5 Solenoid valve (Y1, Y2 and Y5).....	381MP183

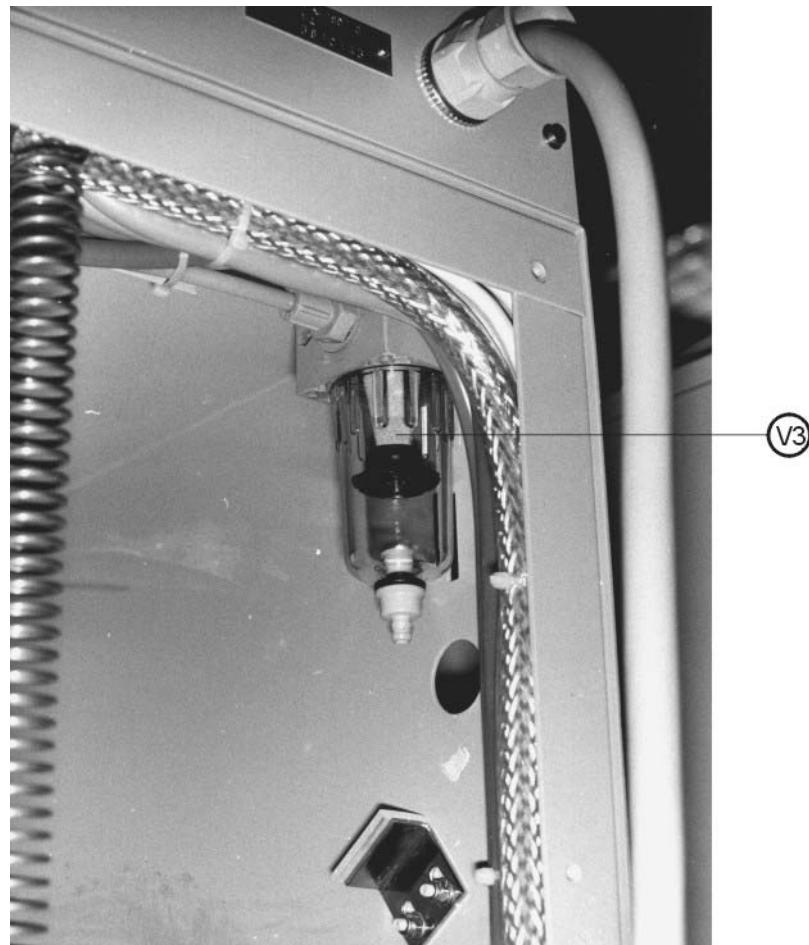
**Fig. 28 Plate for Electronics and Hydro-pneumatics**



*Exotom / Exotom-M  
Spare Parts and Diagrams*

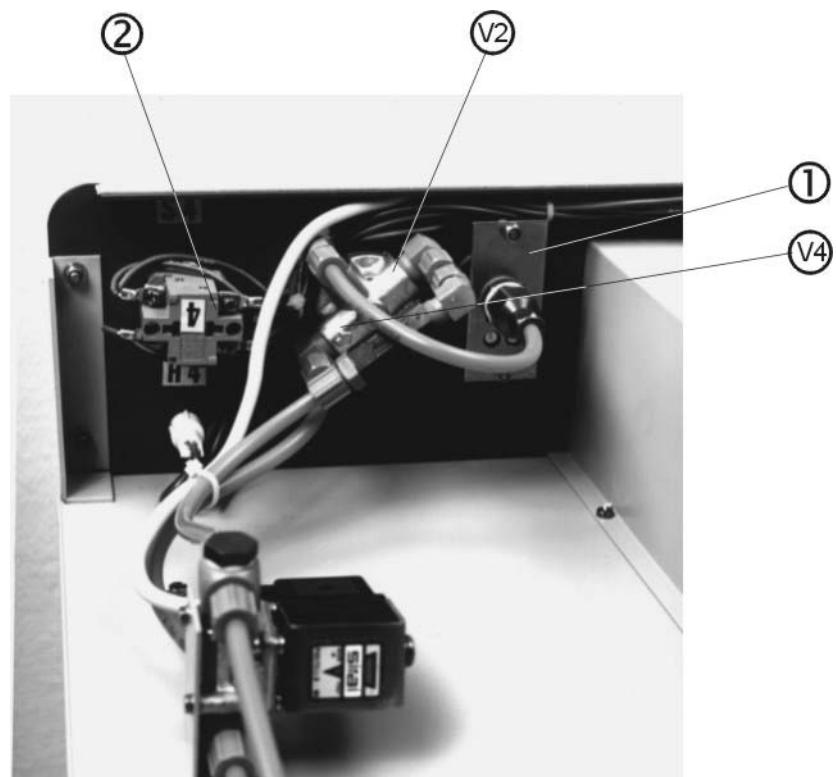
<b>Pos. and Description</b>	<b>Cat. No.</b>
V3 Water expeller/filter unit, V3 .....	2YF00001
Glass for 381MP189 .....	375MP200

**Fig. 29 Water Expeller/  
Filter Unit**



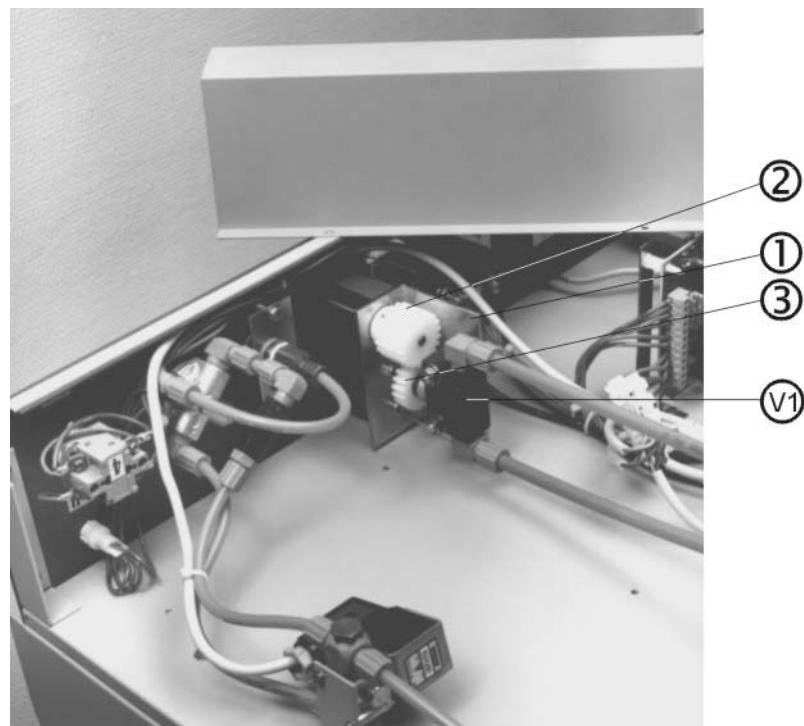
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Manometer holder .....	2NS11309
2 Emergency stop switch element, S4 .....	381MP440
V2 Reduction valve .....	368MP330
V4 Non-return valve (V4) .....	2YH00012

**Fig. 30 Emergency Stop,  
Manometer**



<b>Pos. and Description</b>	<b>Cat. No.</b>
V1 Throttle/one way restrictor valve .....	2YH00010
1 Angle for valve.....	381MP396
2 Shaft with toothed wheel .....	381MP397
3 Toothed wheel for valve	13810375

**Fig. 31 Throttle Valves**



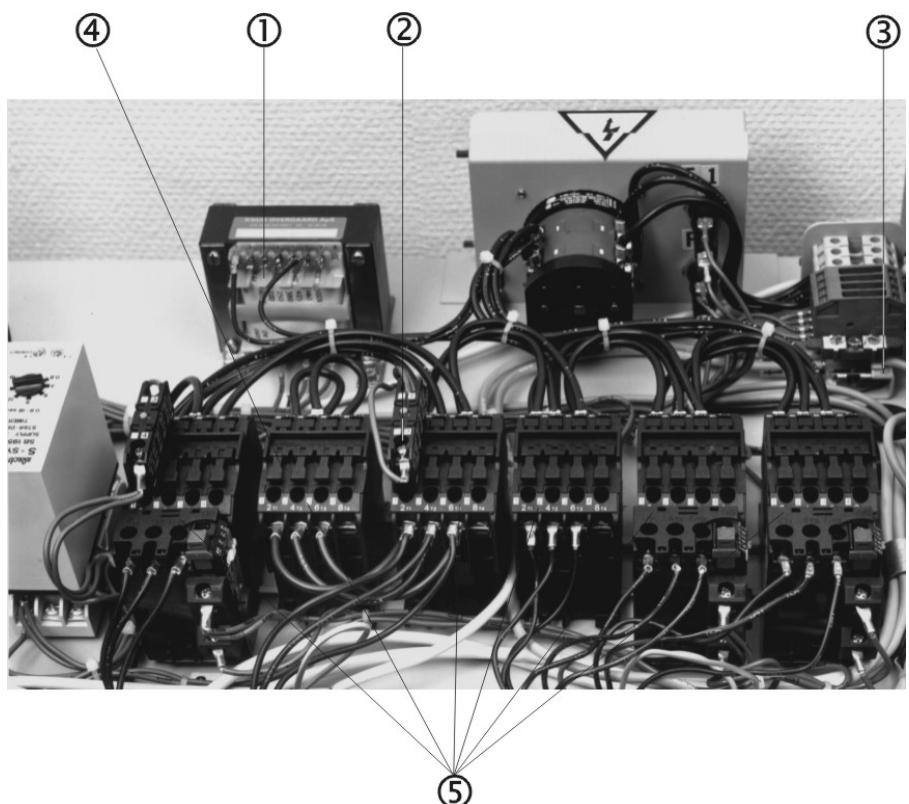
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Fuse holder, F1, F2 .....	2XS12004
1 Fuse F1, F2 .....	2FU14150
3 Angle for 381MP189.....	2NF10107
SO Main switch, SO .....	260MP135

**Fig. 32 Main Switch and Fuses**



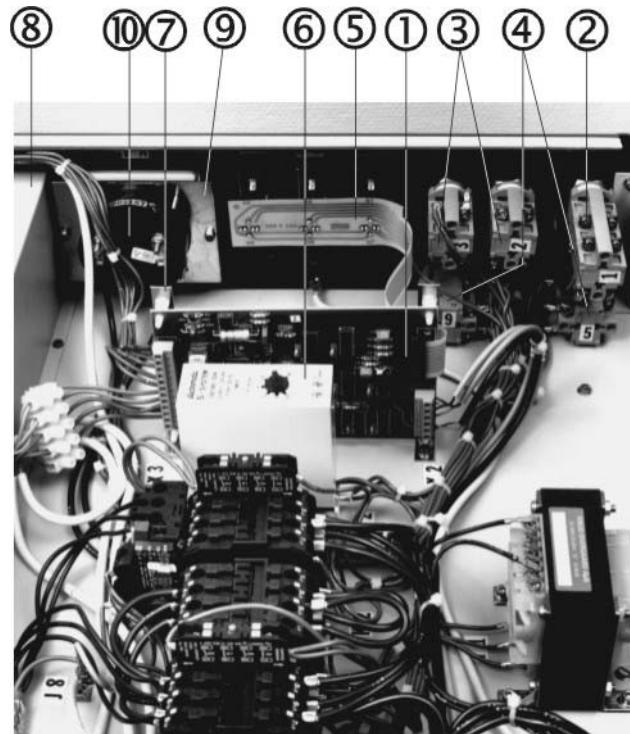
Pos. and Description	Cat. No.
1 Transformer 220V .....	12601029
1 Transformer, 380-500V .....	381MP223
4 Contactor, 220V/50-60Hz, K3, K4 .....	2KM10232
4 Contactor, 380-500V/50-60Hz, K3, K4 .....	2KM10232
5 Thermal relay, TI16 0.13-0.20A .....	381MP345
5 Thermal relay, TI16C 0.13-0.20A.....	2FS00120
5 Thermal relay, TI16 0.19-0.29A .....	394MP050A
5 Thermal relay, TI16C 0.19-0.29A.....	2FS00130
5 Thermal relay, TI16 0.27-0.42A .....	394MP050A
5 Thermal relay, TI16C 0.27-0.42A.....	2FS00123
5 Thermal relay, TI16 0.4-0.62A .....	381MP234
5 Thermal relay, TI16C 0.4-0.62A.....	2FS00123
5 Thermal relay, TI16 0.6-0.92A .....	381MP230
5 Thermal relay, TI16C 0.6-0.92A.....	2FS00124
5 Thermal relay, TI16 4.0-6.2A .....	2FS00129
5 Thermal relay, TI16C 4.0-6.2A.....	2FS00129
5 Thermal relay, TI16 6.0-9.2A .....	381MP233
5 Thermal relay, TI16C 6.0-9.2A.....	2FS00130
5 Thermal relay, TI16 11-16A .....	381MP233
5 Thermal relay, TI16C 11-16A.....	2FS00132
2 Auxiliary switch, NO K2.....	2KH00111
2 Auxiliary switch, NC K4 .....	2KH00112
Barring device for contactor .....	2KH10100
Contactor K2, K5, K6 or K7.....	376MP110
3 Rail.....	2KM10232
1 Mains/24V-Connector Kit .....	13812902

**Fig. 33 Transformers and Relays**



<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Control PCB (Exotom).....	381MP386
Control PCB (Exotom-M) .....	14100140
2 Switch element, S1 .....	381MP246
3 Switch element, S2, S3.....	381MP247
4 Switch element, S5, S6.....	381MP248
5 Flexible PCB.....	13813376
6 Timer, A2 .....	381MP266
Socket for A2.....	2KT90411
7 Angle plate for PCB.....	381MP011
8 Tunnel for hydro-pneumatics .....	13810036
9 Ammeter console .....	381MP015
10 Ammeter, 220V.....	13810232
Ammeter, 380-500V .....	13810233
Bulb, S1, S3, S5, S6, S2.....	2HK13004

**Fig. 34 PCB Console**



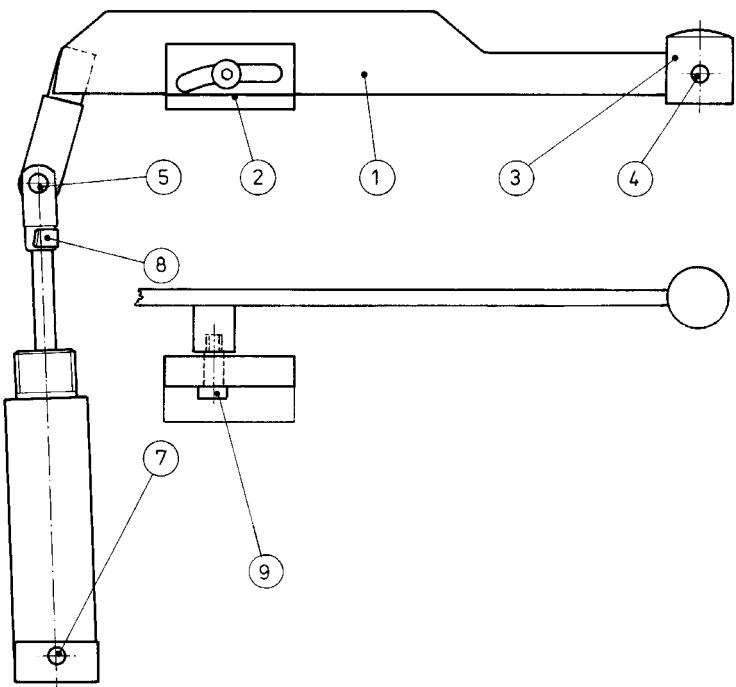
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Door .....	13819035
2 Locking device .....	381MP271
3 Distance plate.....	13818039
Vibration damper .....	13810840
Connection box .....	381MP274

**Fig. 35 Door, Locking Device**



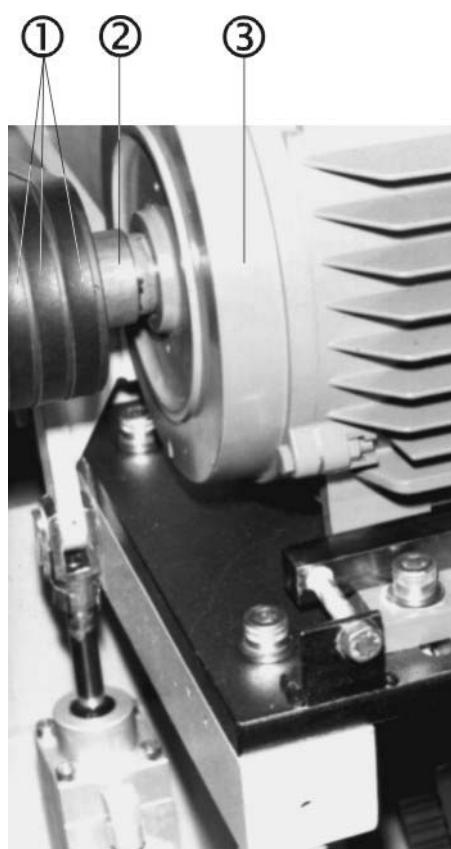
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Arm with bolt.....	381MP391
2 Guide block .....	381MP392
3 Arm pedestal .....	13819061
4 Shaft for arm .....	13810571
5+8 Fork arm for cylinder .....	13810583
1 Bearing bracket.....	381MP305
7 Shaft for bearing brackets .....	13810556
Bushing for shaft.....	13810557
Radial flexible bearing for cylinder bottom .....	381MP443
9 Fitted bolt M10x12x20 .....	2JT11220

**Fig. 36 Arm**



<b>Pos. and Description</b>	<b>Cat. No.</b>
1 V-belts (3 pcs.), 50Hz, L=1202 .....	2JD00002
2 Pulley for cutting motor 50Hz .....	381MP107
3 Cutting motor 3x200-220V/50Hz.....	381MP210A
Cutting motor 3x220-220V/60Hz.....	381MP210B
3 Cutting motor 3x380V-415V/50Hz + 3x440V-480V/60Hz.....	381MP211
3 Cutting motor 3x500V/50Hz .....	381MP212

**Fig. 37a V-belts**

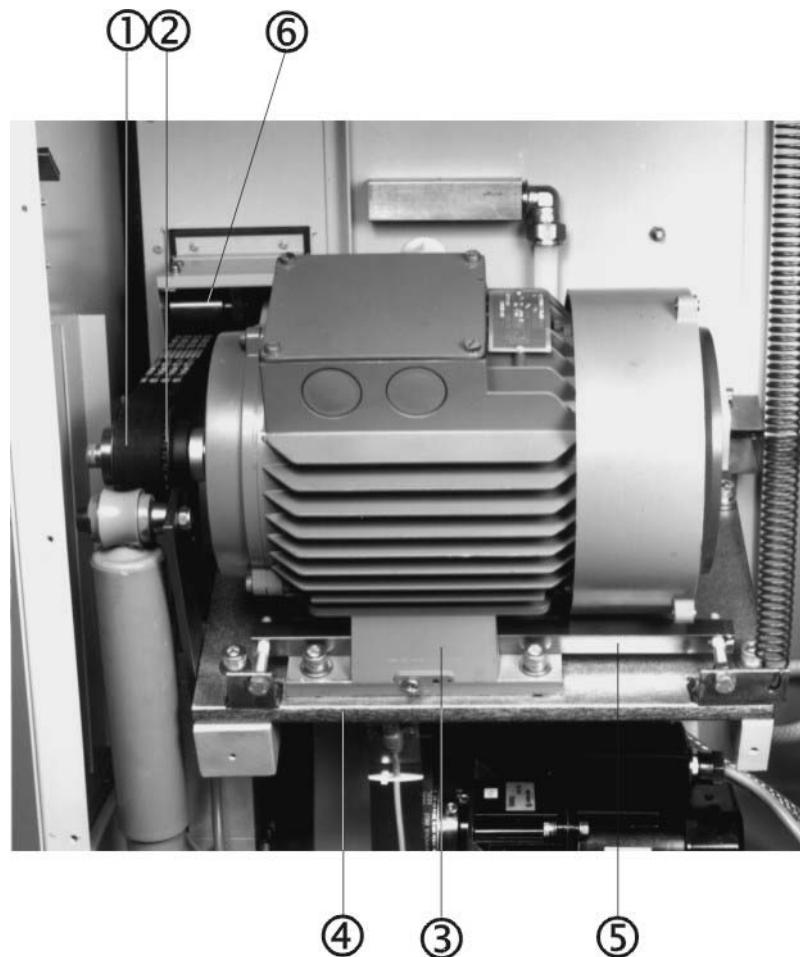


**Fig. 38 V-belt Motor, Detail**



<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Timing belt, 60Hz 1200-8M-30 RPP .....	2JT11200
2 Pulley for cutting motor, 60Hz .....	381MP405
4 Motor plate .....	381MP424
5 Motor base plate/belt tightener .....	R3818044
6 Idler, complete, 60 Hz .....	381MP399

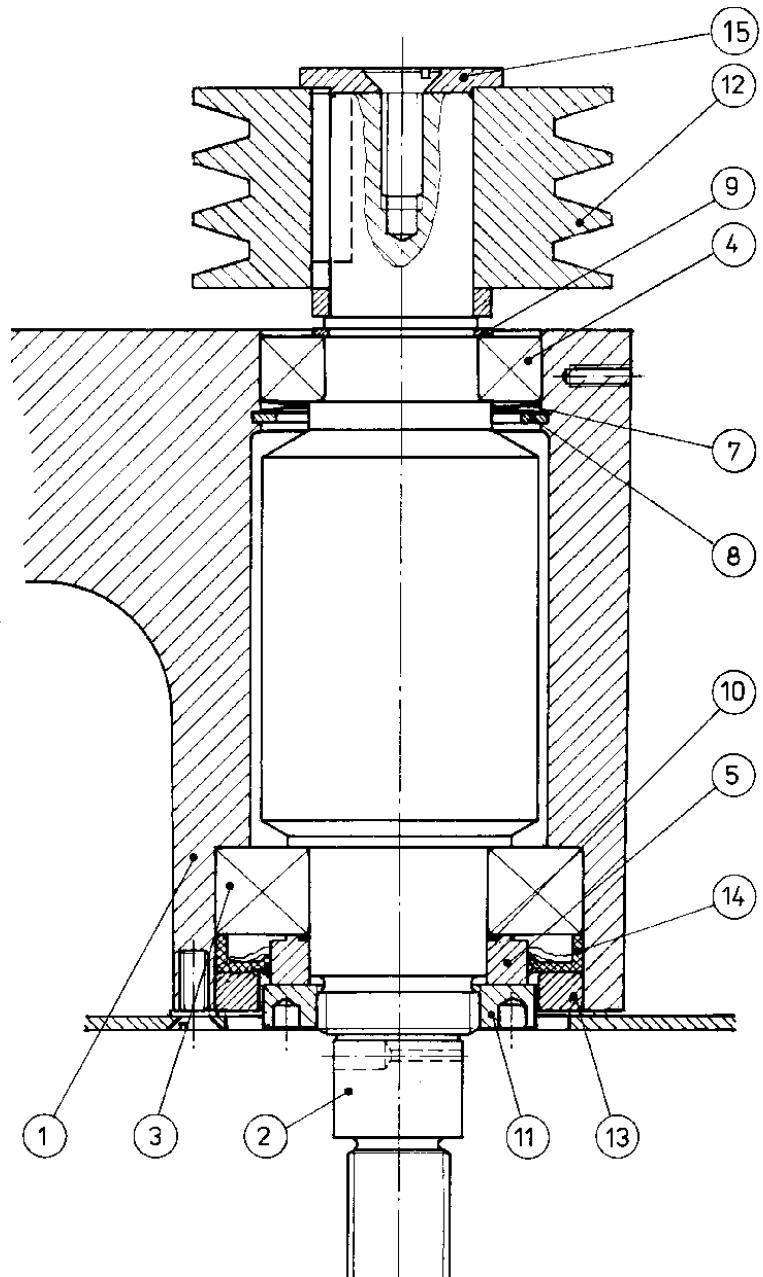
**Fig. 37b Toothed Belts**



*Exotom / Exotom-M*  
*Spare Parts and Diagrams*

<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Spindle arm with brass bearing and eccentric shaft .....	381MP060
2 Spindle shaft w. pin .....	381MPXX13M
3 Ball bearing, 6207-2RS .....	2BK00107
4 Ball bearing, 6006-2RS .....	2BK00080
5 Sealing ring, steel.....	13810790
7 Thrust collar .....	2GF51019
8 Circlip.....	2ZL20550
9 Circlip.....	2ZL10300
10 O-ring (35.1 x 1.6 mm) (10 pcs).....	2IO16030
11 Lock nut .....	13810792
12 V-belt pulley for spindle, 50 Hz .....	381MP401
Timing belt pulley for spindle, 60 Hz.....	381MP406
Washer 21/37x3 .....	2ZA10020
Key (A 8x7x36) for pulleys (2 pcs) .....	2ZF10836
13 Outer ring .....	13810791
14 Sealing ring .....	381MP411
15 Washer and screw for spindle.....	381MP450

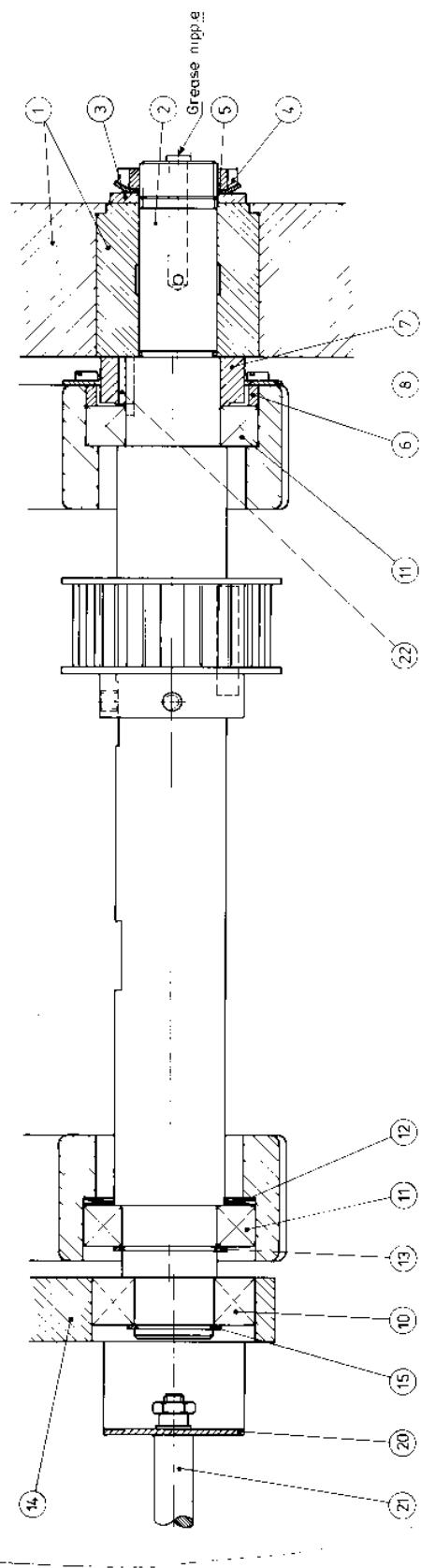
**Fig. 50 Spindle Arm**



*Exotom / Exotom-M*  
*Spare Parts and Diagrams*

<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Spindle arm with brass bearing and eccentric shaft .....	381MP060
2 Eccentric shaft (cannot be ordered separately, part of 381MP60)	
3 Washer with key.....	13810773
4 Lock nut .....	2TF02515
5 Lock washer.....	2ZI02512
6 Distance ring, outer.....	13810770
7 Distance ring with key .....	381MP376
8 Cover ring .....	381MP377
10 Ball bearing, 6205-2RS .....	2BK00055
11 Ball bearing, 6006-2RS .....	2BK00080
12 Thrust collar (4 pcs.) .....	2GF51019
13 Circlip.....	381MP098
14 Left arm for motor plate .....	381MP099
15 Circlip.....	2ZL10250
20 Console for pointer shaft.....	381MP113
21 Pointer shaft .....	381MP114
22 Distance ring with key .....	381MP376
23 Grease nipple, type B1, straight (6 mm).....	2GN20002

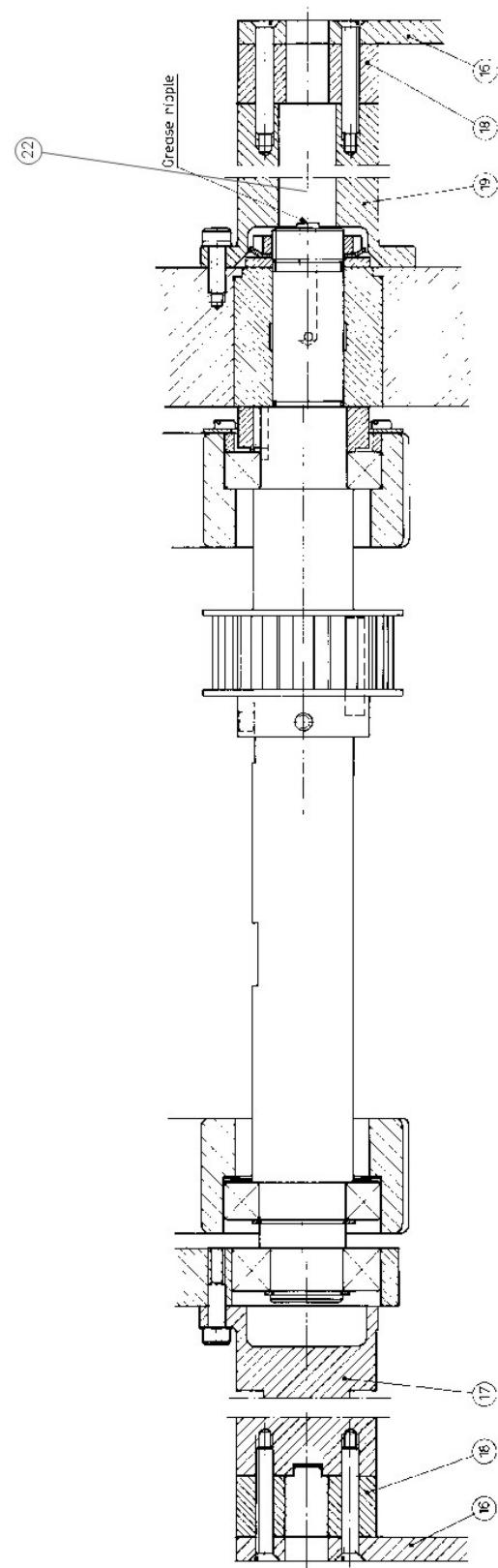
**Fig. 51 Eccentric Shaft**



**Pos. and Description**

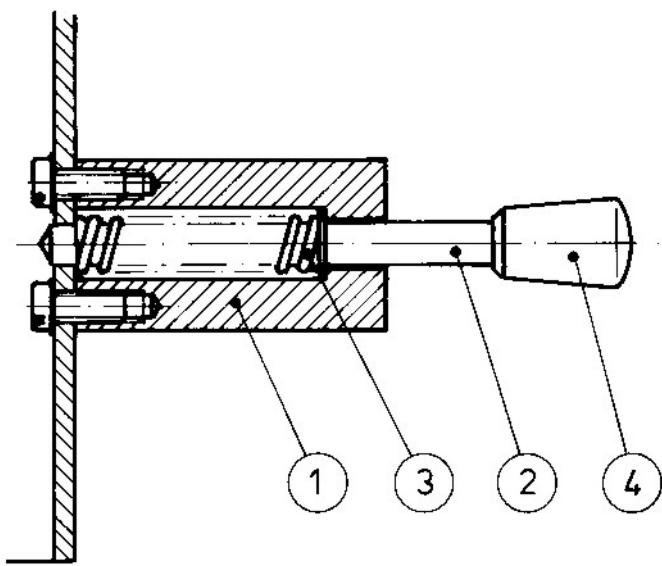
**Cat. No.**

**Fig. 51-M Eccentric Shaft,  
Exotom-M**



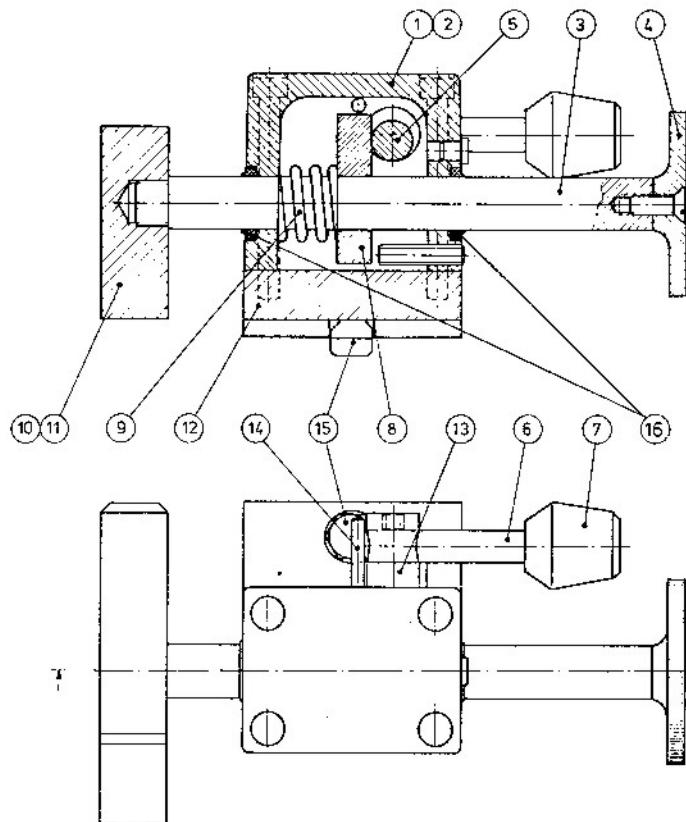
<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Spindle lock case .....	381MP083
2 Dowel w. circlip .....	13810439
3 Spring.....	13680095
4 Knob .....	2GH00001

**Fig. 52 Spindle Lock Case**



<b>Pos. and Description</b>	<b>Cat. No.</b>
1 Quick-clamping house (cast), right.....	381MP124
2 Quick-clamping house (cast), left .....	381MP138
3 Guide pin .....	13810085
4 Handle for guide pin .....	381MP126
5 Eccentric shaft, complete .....	15110025
6 Handle rod .....	13810087
7 Knob .....	2GH00180
8 Clamping ring (for 2 units) .....	315MP005
9 Clamping Spring (2 pcs).....	12150155
10 Jaw for QCD, left.....	15330311
11 Jaw for QCD, right .....	15330312
12 Base plate with dowel pins for 10mm T-slots .....	15110027
13 Distance tube.....	2GB01155
14 Pawl (2 pcs).....	381MP134
15 Short T-headed screw with washer and cap nut .....	381MP135
16 Scraper ring (2 pcs) .....	2IT00009

**Fig. 53 Quick-clamping House**



**List of Special Parts  
for Exotom-M**

Console for bellow .....	13810595
Handle .....	14109002
51M16 Arm for Handle.....	14109001
51M17 Attachment, left.....	14108003
51M18 Guide for arm .....	14109007
51M19 Attachment, right.....	14109003

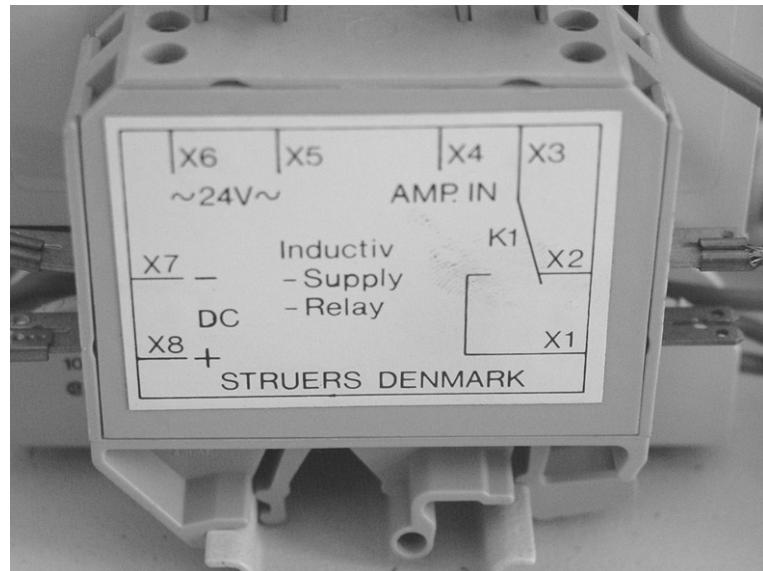
*See Fig. 10*

*See Fig. 54*

B Sensor B1, protective screen closed.....	381MP336
1 Control PCB.....	14100140

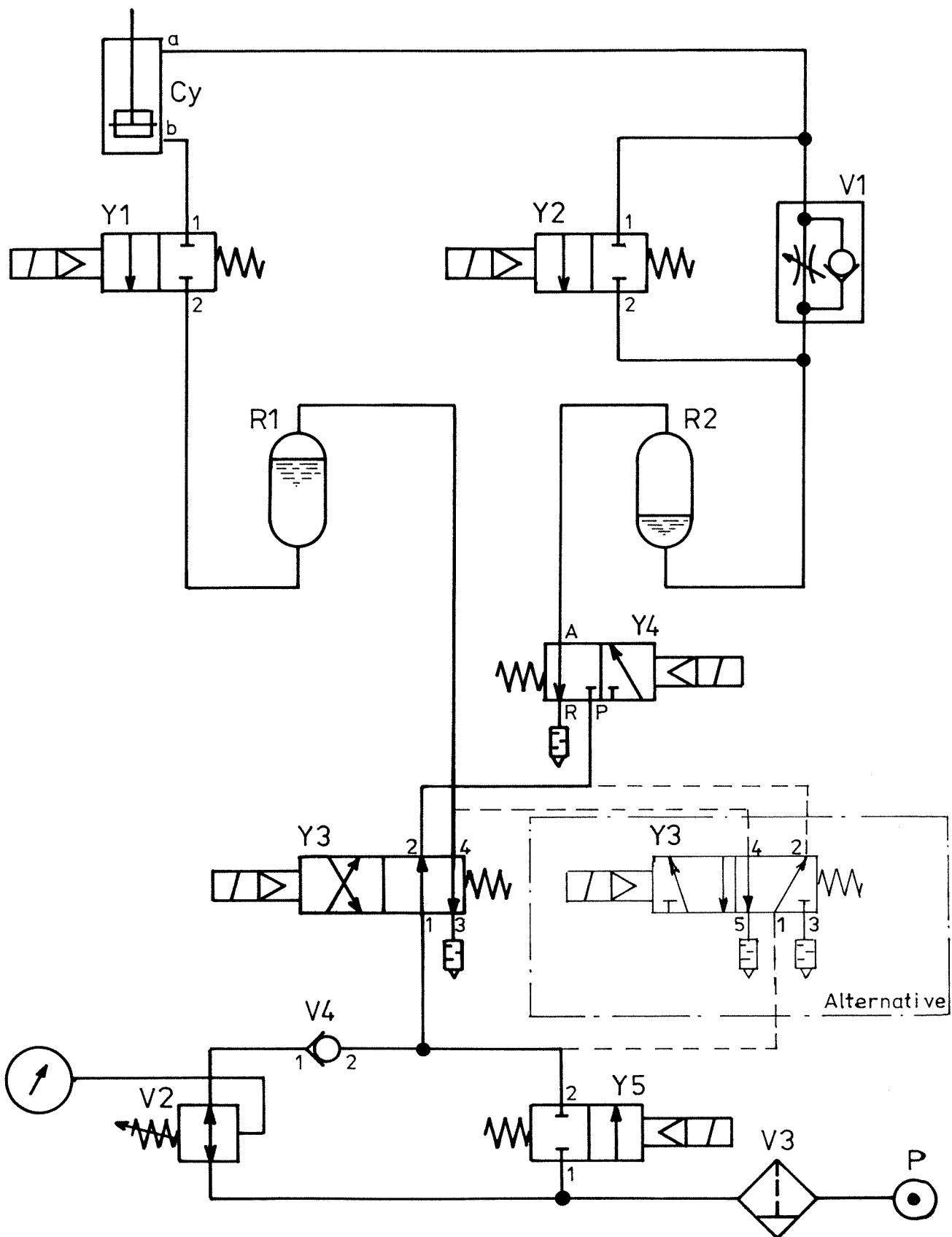
**See Fig. 54**

Á  
Á  
Á



*Exotom / Exotom-M  
Spare Parts and Diagrams*

# Diagrams



Matr.

Målestok: Overfladebehandl.:

**STRUERS A/s**

Navn: B.J / AP

Dato 4.11.86

Kode: Anv. i type:

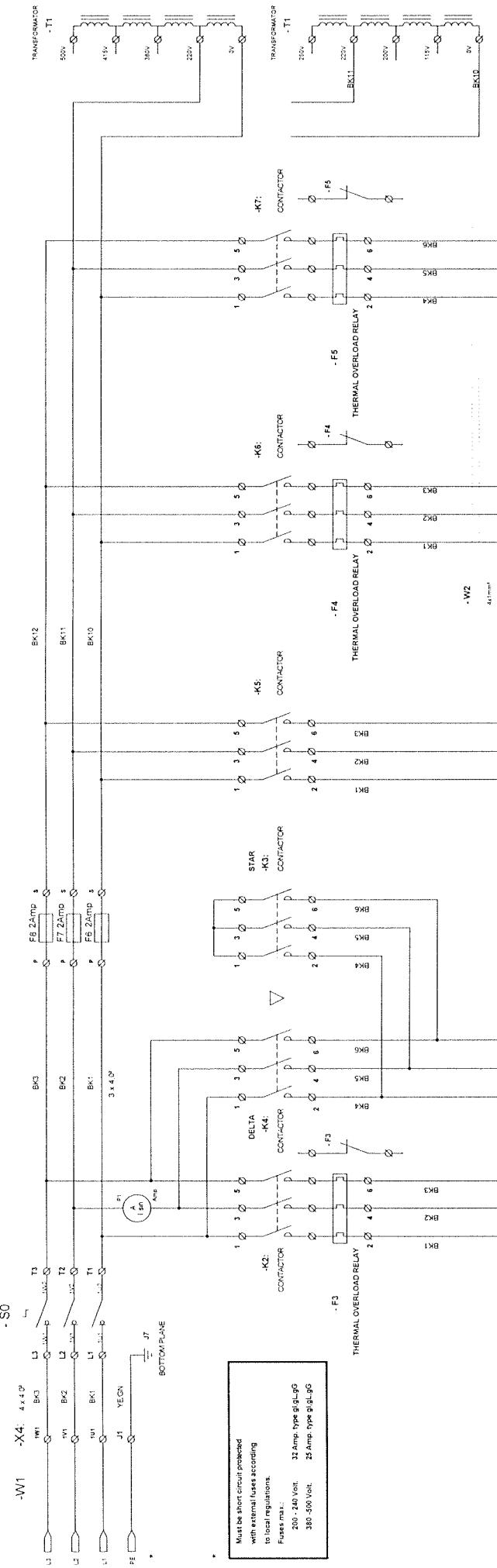
Erst.: 381-M-146

A: Oprindelig Y3 ventil endret til  
alternativ 6.8.93 B.J/PV

Pneumatic diagram  
for Exotom

13810147 A

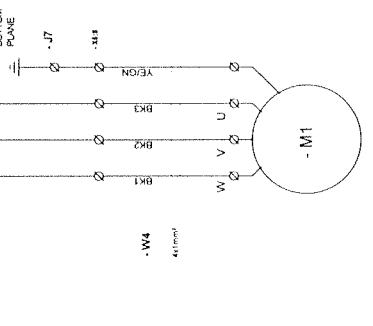
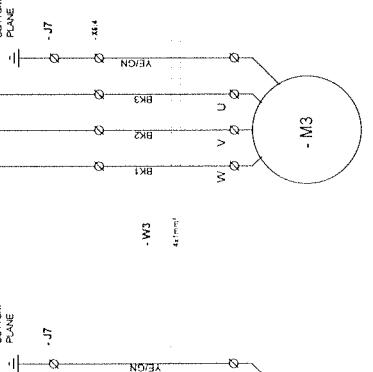
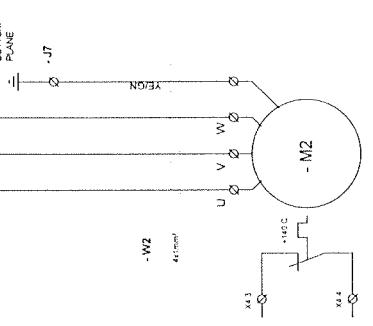
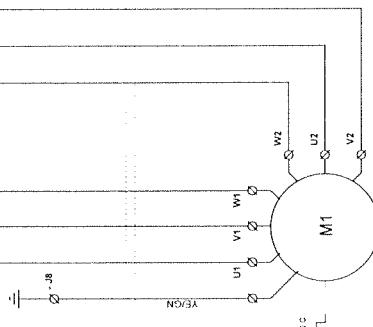
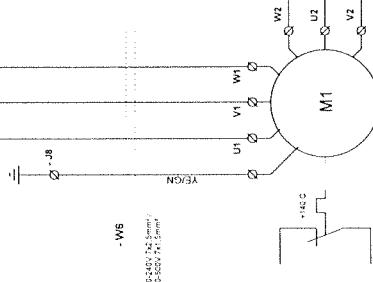
### MAINS SWITCH



All warnings in above except otherwise marked

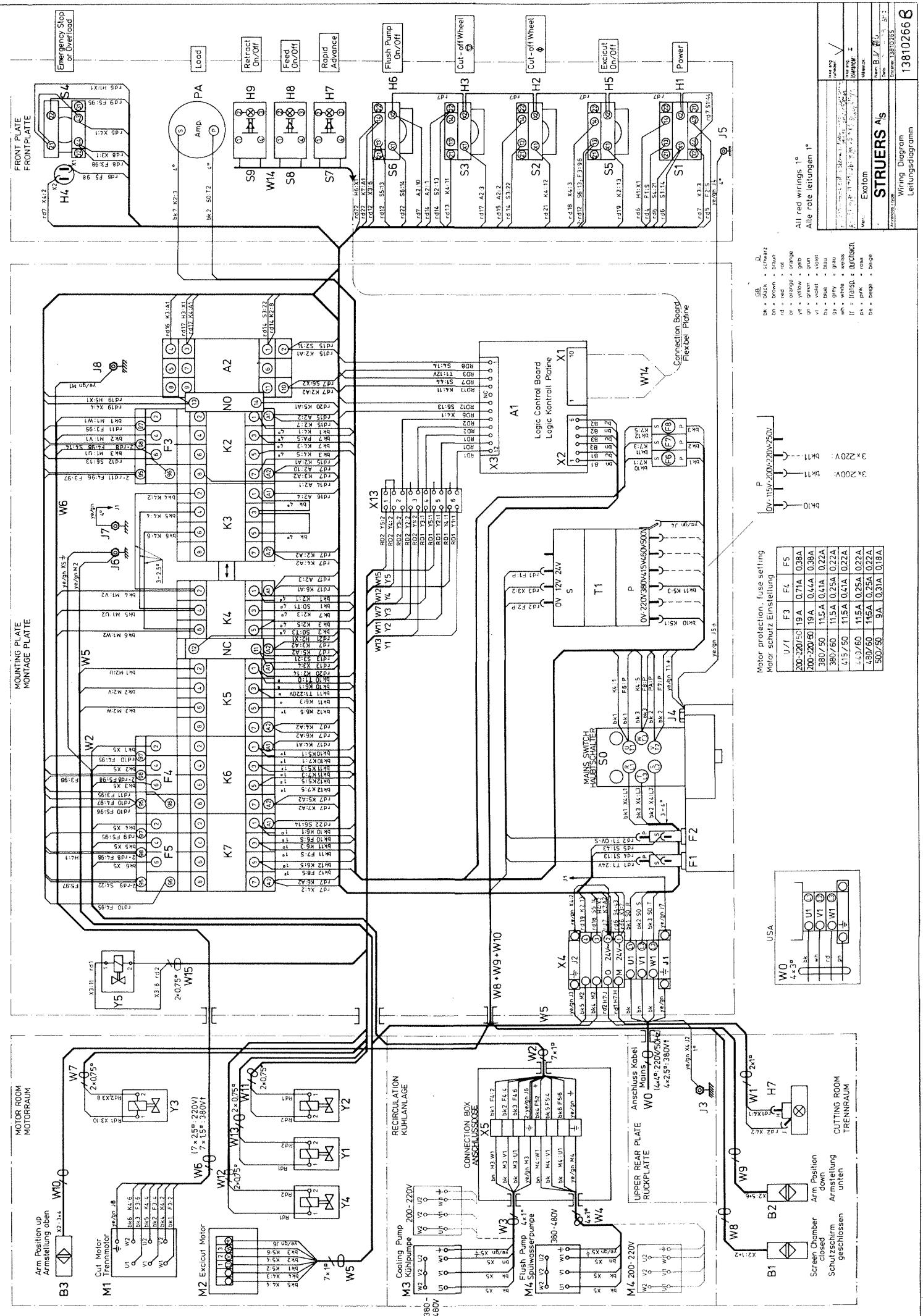
COLOUR CODES

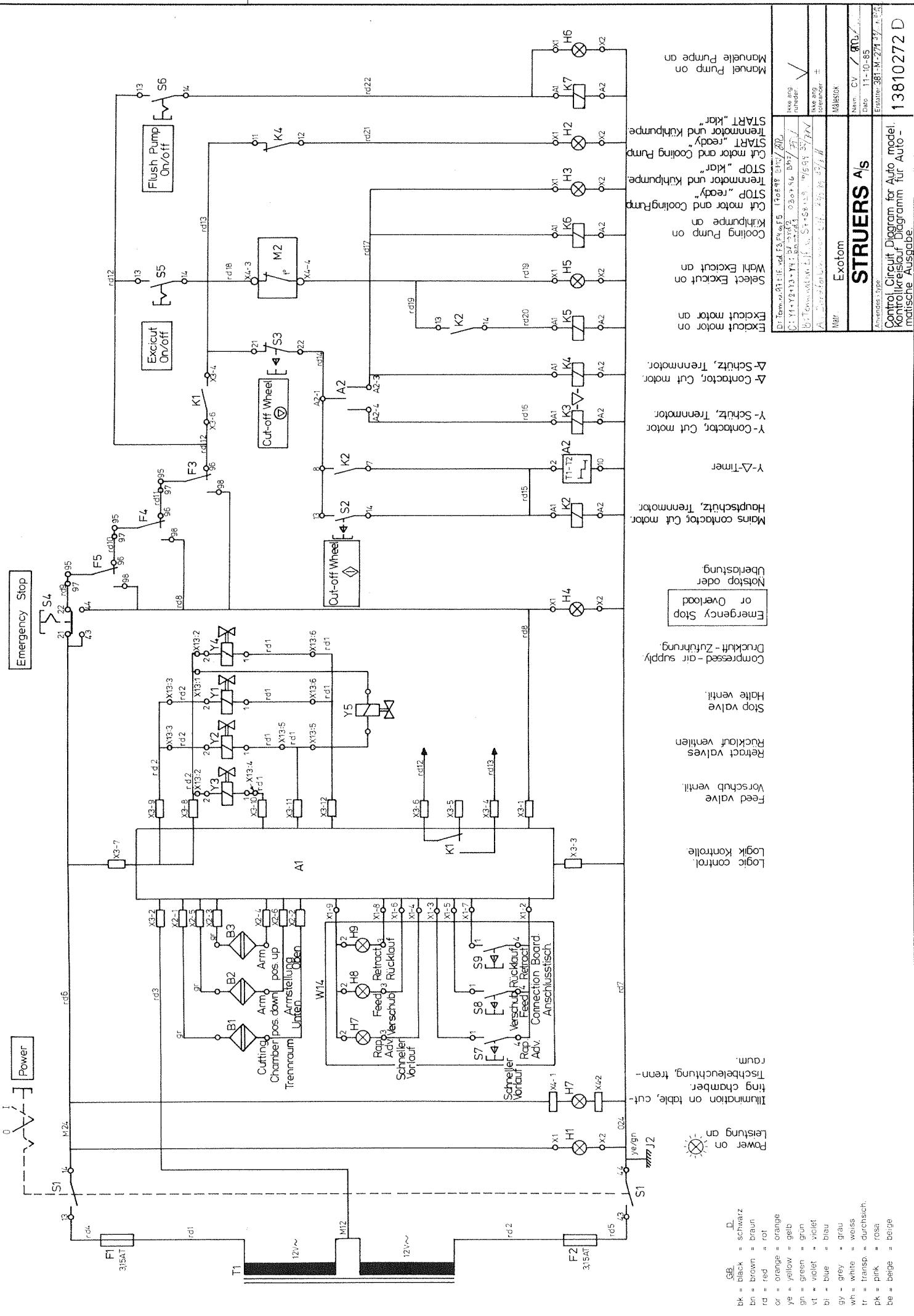
RD = RED  
OG = ORANGE  
YE = YELLOW  
GN = GREEN  
BU = BLUE  
VT = VIOLET  
GY = GREY  
WH = WHITE

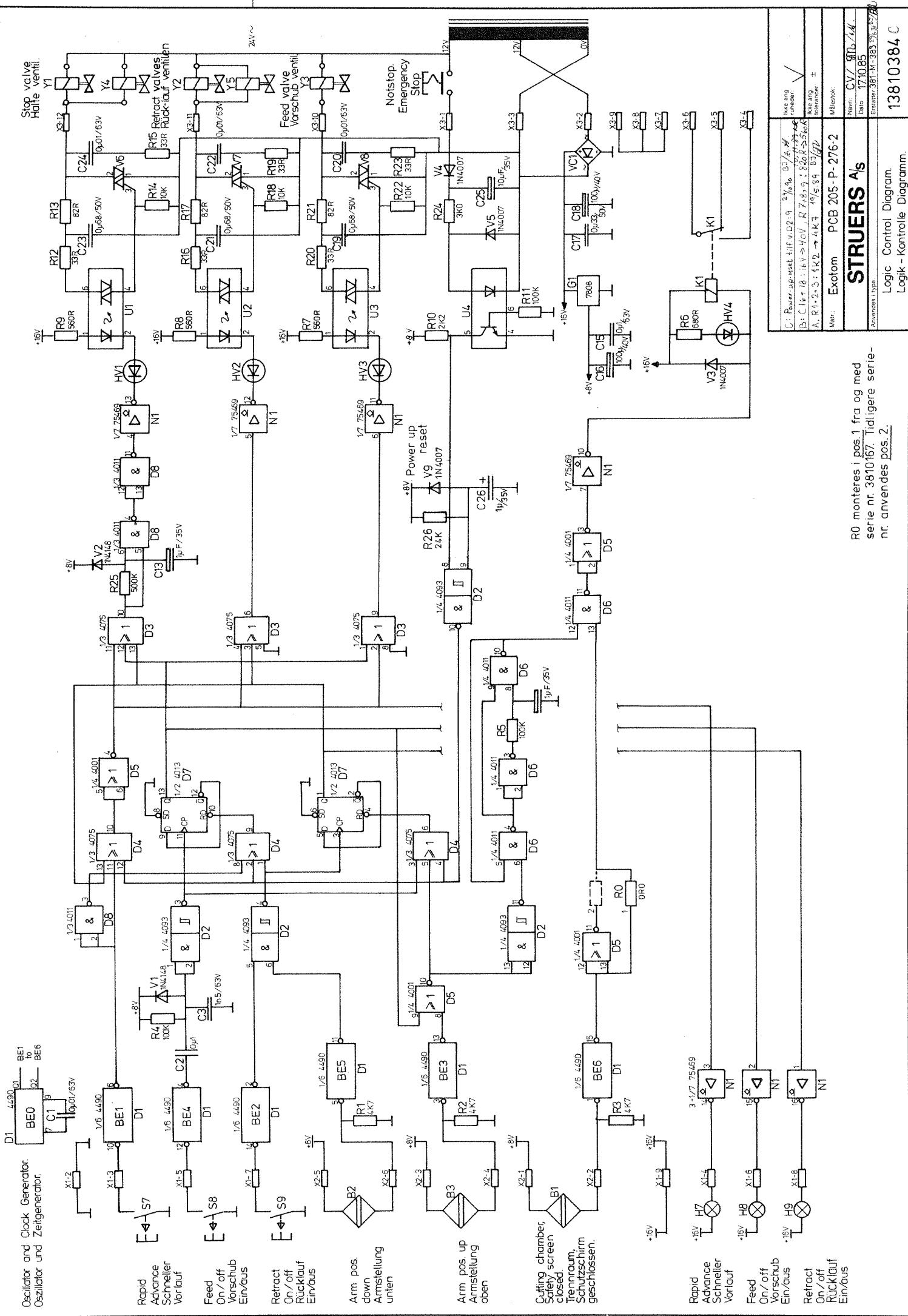


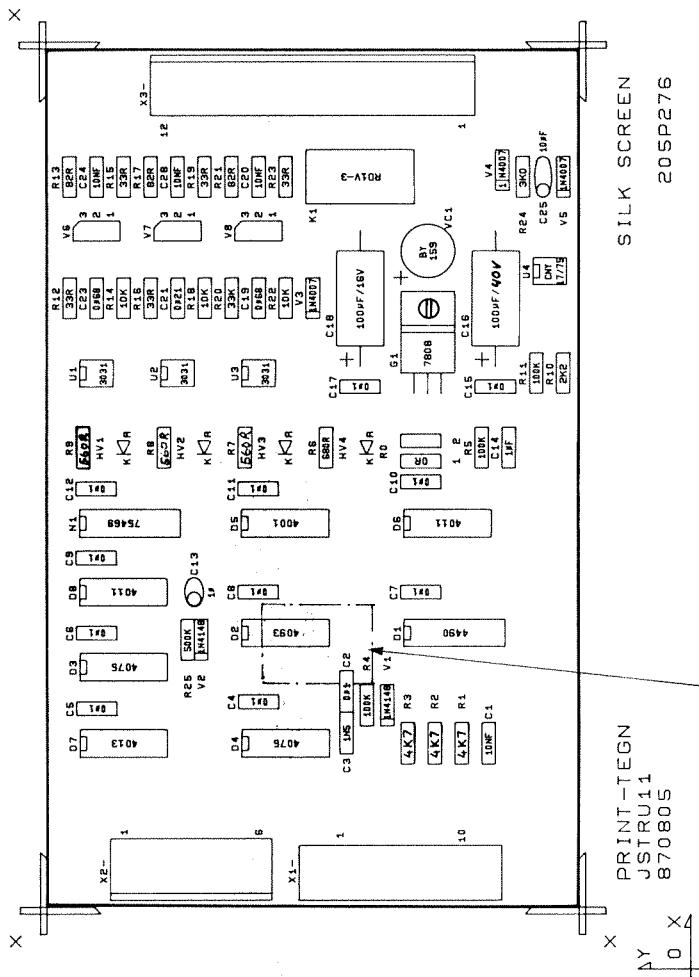
Exclam. Exclam. - T	Series 323 14 mm² Cable Type 45 350 000 Power Circuit Diagram	Part No. 22222222	42	Exclam. Exclam. - M
Exclam. Exclam. - S	Series 323 14 mm² Cable Type 45 350 000 Power Circuit Diagram	Part No. 13810065	1	Exclam. Exclam. - S

Exclam. Exclam. - V	VE/GN	W1	4x1 mm²	Exclam. Exclam. - V
Exclam. Exclam. - V	VE/GN	W2	4x1 mm²	Exclam. Exclam. - V
Exclam. Exclam. - V	VE/GN	W3	4x1 mm²	Exclam. Exclam. - V
Exclam. Exclam. - V	VE/GN	W4	4x1 mm²	Exclam. Exclam. - V







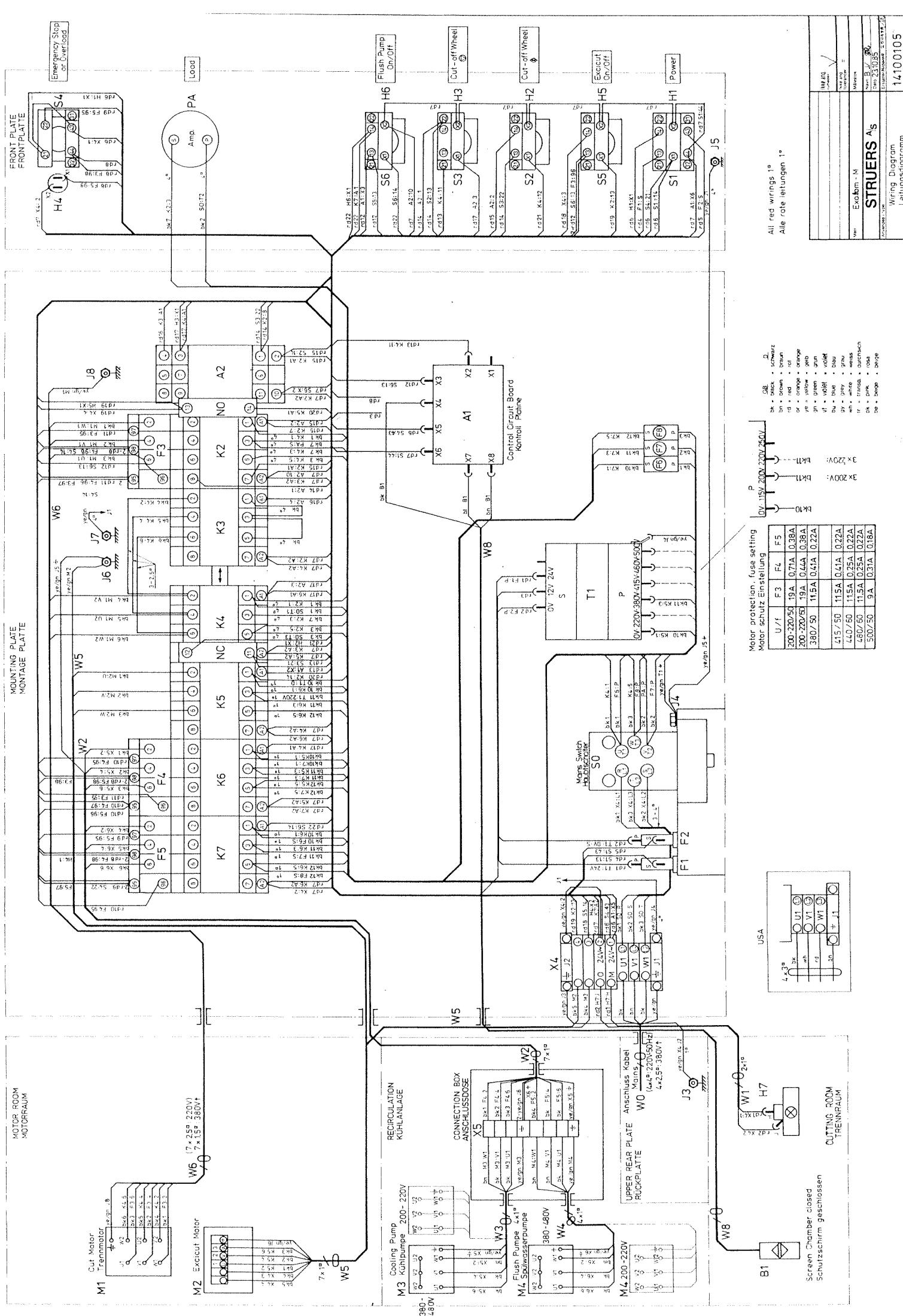


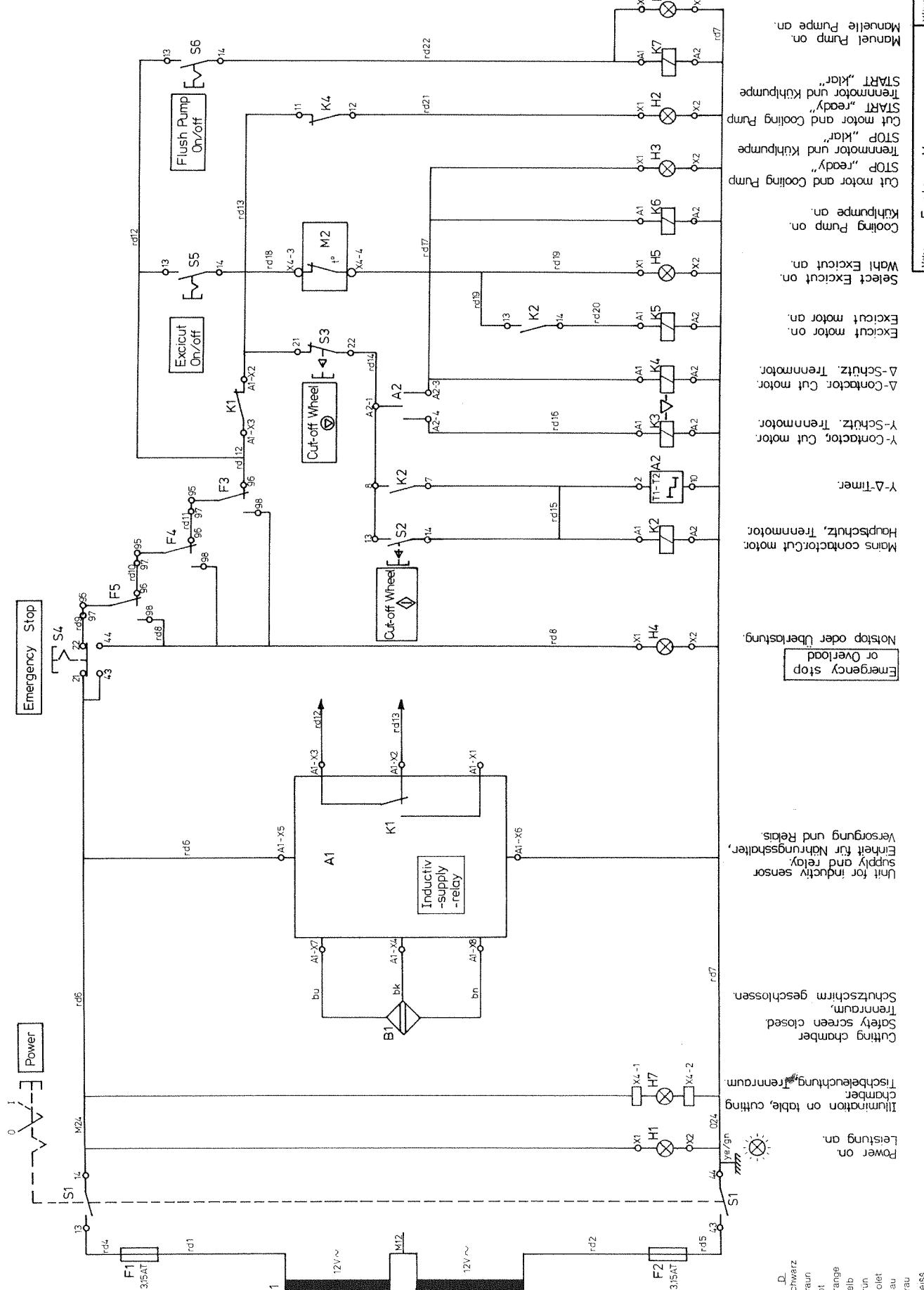
Rettelse: Se model. Indført fra app.nr. 3810391

SILK SCREEN  
205P276  
205P276

OR monteres i pos. 1 fra og med apparatnr. 3810178

	HTR. Exotom	205P276-2	HALESTOK 1:1
	STRUERS A/S	NVN B.J. & D.	DATO 23.9.87
C. Se model til: 1% 90 02/4	ANVENDES I TYPE	ERSTATTER 381-M-387 1% 87	13810388 C
B: R7+R9: 80Ω 15W 560Ω			
A: R12+R3: 1kΩ 1W 15W 4kΩ			
4.9.84 03/84			





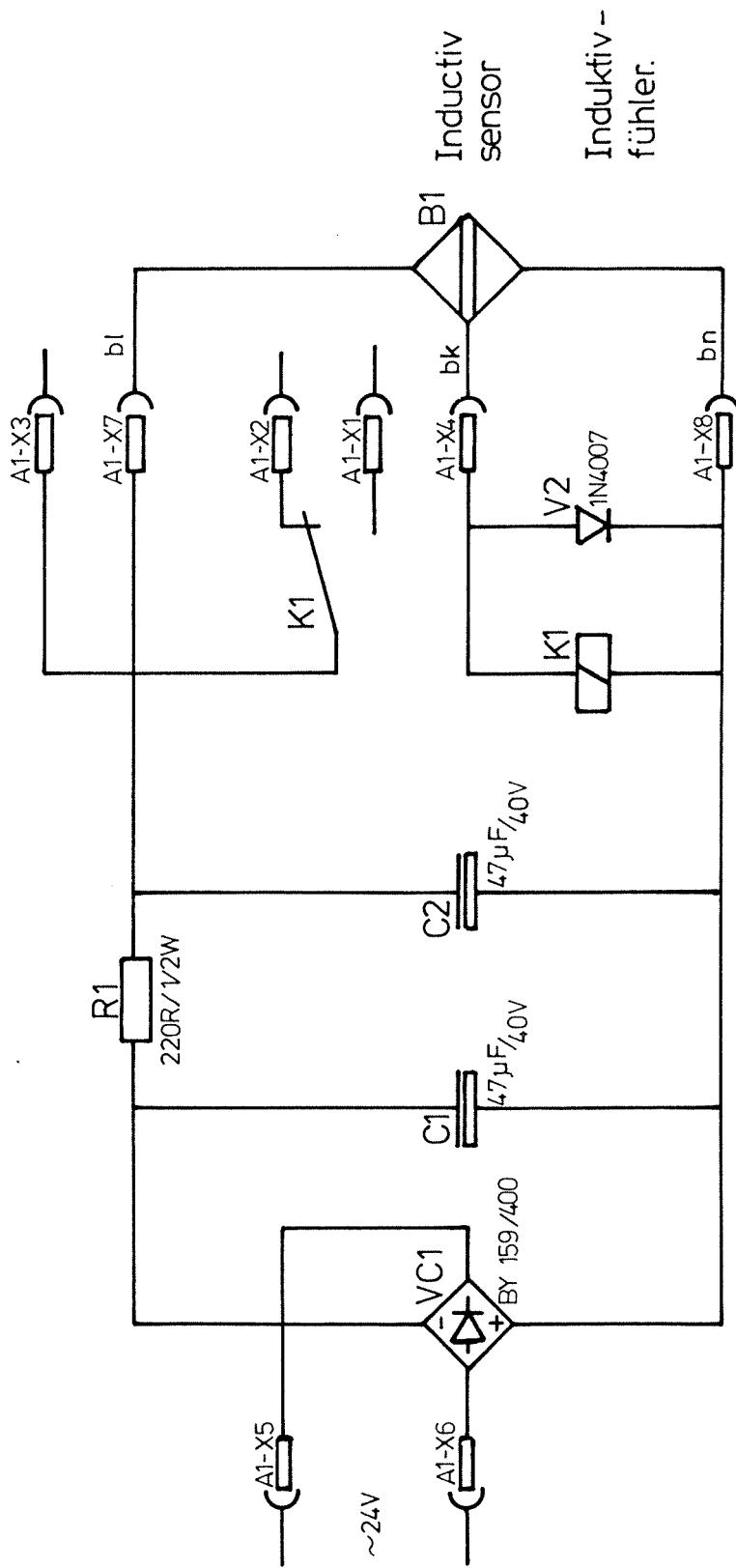
GB D.  
 bk = black = schwarz  
 bn = brown = braun  
 rd = red = rot  
 or = orange = orange  
 ye = yellow = gelb  
 gr = green = grün  
 vt = violet = violett  
 bu = blue = blau  
 gr = grey = grau  
 wh = white = weiß  
 tr = transp. = durchsich.  
 pk = pink = rosa  
 be = beige = beige

Di-Typ 4314, 12V, 12A, 15A, 24V  
 C: S4: Klappenschalter, 12V, 8A, 12A  
 B: Klappenschalter, 12V, 12A, 24V  
 A: Anschlusskabel, 12V, 12A, 24V

**STRUERS AS**

Mittwoch, 04.10.2012, 14:11  
 Name: CV / R0  
 Date: 10-10-85  
 Ersteller: 410-H-102%  
 Dokumenttyp: Control Circuit Diagram,  
 Kontrollkreislauf Diagramm.

141001111D



Ikke ang. ruheder:	<input checked="" type="checkbox"/>
Ikke ang. tolerancer	<input checked="" type="checkbox"/>

A: tarver tilf. 29/16 2+ B3/PTV  
B: Ny sensor; Nue Leedn. forvar

Matr.: Exotom - M

Målestok:

**STRUERS A/s**

Navn: CV/ an

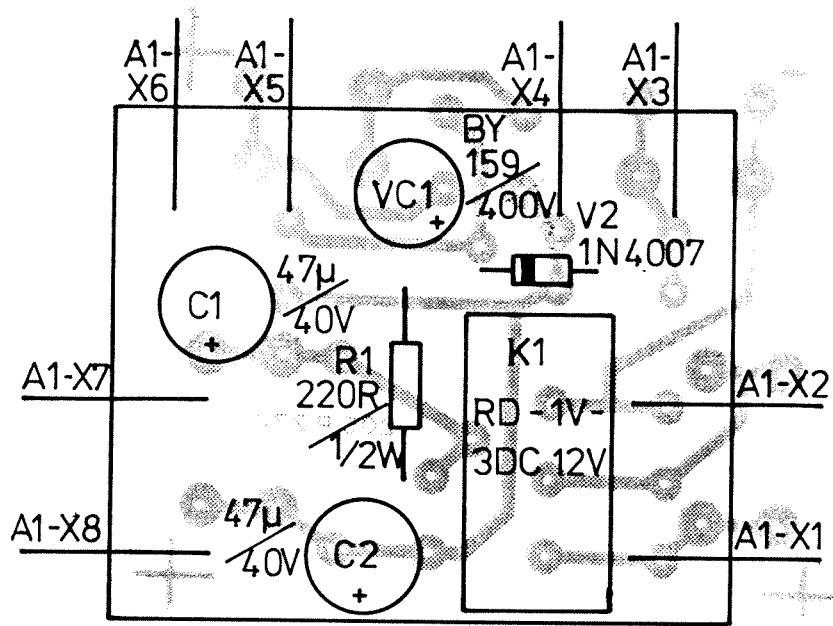
Dato: 17.10.85

Anvendes i type:

Erstatter:

Diagram for inductive sensor and relay.  
Diagramm für Näherungsschalter,  
Speisung und Relais.

14100150 B



X1 - X8 pin connectors Weidmüller S 6,3 no. 49610

Ikke ang. ruheder:	<input checked="" type="checkbox"/>
Ikke ang. tolerancer	<input type="checkbox"/>
Målestok:	
Navn B.J. <i>M</i>	
Dato: 14.10.85	
Erstatter: 381-17-1610	
Matr.:	
<b>STRUERS A/s</b>	
Anvendes i type:	
Component illustration for Exotom - M	14100155

Dansk

# Overensstemmelseserklæring



**Fabrikant**

Struers A/S  
Valhøjs Allé 176,  
DK-2610 Rødovre, Danmark  
Telefon 36 70 35 00

erklærer herved, at

<i>Produktnavn:</i>	Exotom
<i>Type nr.:</i>	381
<i>Maskintype:</i>	Skærermaskine

er i overensstemmelse med følgende EU-direktiver:

**Maskindirektivet** 89/392/EØF, 91/368/EØF, 93/44/EØF og 93/68/EØF efter følgende norm(er):

EN292-1:1991, EN292-2:1993/A1:1995, EN294:1993, EN349:1994, EN418:1994, EN954-1:1997,  
EN1037:1996, EN11200:1996, EN60204-1:1997:ED4.

**EMC-direktivet** 89/336/EØF og 92/31/EØF efter følgende norm(er):

EN50081-1:1991, EN50081-2:1993, EN50082-1:1992, EN50082-2:1994.

**Lavspændingsdirektivet** 73/23/EØF og efter følgende norm(er):

EN60204-1:1997:ED4.

**Supplerende oplysninger** Endvidere overholdes de amerikanske normer:  
NEPA 79-1997, UL508 ED14 22-2-88.

Ovenstående overensstemmelse(r) er erklæret iflg. den globale metode, modul A

Date: 20.01.1999

Klaus Kisbøll, udviklingschef, Struers A/S

English

# Declaration of Conformity



**Manufacturer**

Struers A/S  
Valhøjs Allé 176  
DK-2610 Rødovre, Denmark  
Telephone 36 70 35 00

Herewith declares that

<i>Product Name:</i>	Exotom
<i>Type No.:</i>	381
<i>Machine Type:</i>	Cut-off machine

is in conformity with the provisions of the following directives:

**Safety of Machinery** 89/392/EEC, 91/368/EEC, 93/44/EEC and 93/68/EEC according to the following standard(s):

EN292-1:1991, EN292-2:1993/A1:1995, EN294:1993, EN349:1994, EN418:1994, EN954-1:1997,  
EN1037:1996, EN11200:1996, EN60204-1:1997:ED4.

**EMC-Directive**

89/336/EEC and 92/31/EEC according to the following standard(s):  
EN50081-1:1991, EN50081-2:1993, EN50082-1:1992, EN50082-2:1994.

**Low Voltage Directive**

73/23/EEC according to the following standard(s):  
EN60204-1:1997:ED4.

**Supplementary Information**

The equipment complies with the American standards:  
NEPA 79-1997, UL508 ED14 22-2-88.

The above has been declared according to the global method, module A

Date: 20.01.1999

Klaus Kisbøll, R&D Manager, Struers A/S

Deutsch

# Konformitätserklärung



**Hersteller**

Struers A/S  
Valhøjs Allé 176,  
DK-2610 Rødovre, Danmark  
Telefon 36 70 35 00

erklärt hiermit, daß

Produktnr.:	Exotom
Typennr.:	381
Maschinenart:	Trennmaschine

konform ist mit den einschlägigen EG-Richtlinien

- Sicherheit der Betriebsanlage** 89/392/EWG, 91/368/EWG, 93/44/EWG, und 93/68/EWG gemäß folgender Normen:  
EN292-1:1991, EN292-2:1993/A1:1995, EN294:1993, EN349:1994, EN418:1994, EN954-1:1997,  
EN1037:1996, EN11200:1996, EN60204-1:1997:ED4.
- EMC-Direktive** 89/336/EWG und 92/31/EWG gemäß folgender Normen:  
EN50081-1:1991, EN50081-2:1993, EN50082-1:1992, EN50082-2:1994.
- Niederspannungs - Direktive** 73/23/EWG gemäß folgender Normen:  
EN60204-1:1997:ED4.
- Ergänzungs-information** Die Maschine entspricht ebenfalls den amerikanischen FCC Normen:  
NEPA 79-1997, UL508 ED14 22-2-88.

Die obenstehende Konformität ist in Folge der globalen Methode, Modul A erklärt

Datum: 20.01.1999

Klaus Kisbøll, Entwicklungsleiter, Struers A/S

Français

# Déclaration de conformité



**Fabricant**

Struers A/S  
Valhøjs Allé 176  
DK-2610 Rødovre, Denmark  
Téléphone 36 70 35 00

Déclare ci-après que

Nom du produit:	Exotom
Type no:	381
Type de machine:	Machine pour le tronçonnage

est conforme aux dispositions des Directives CEE suivantes:

- Sécurité des machines** 89/392/CEE, 91/368/CEE, 93/44/CEE et 93/68/CEE conforme aux normes suivantes:  
EN292-1:1991, EN292-2:1993/A1:1995, EN294:1993, EN349:1994, EN418:1994, EN954-1:1997,  
EN1037:1996, EN11200:1996, EN60204-1:1997:ED4.
- Directive EMC** 89/336/CEE et 92/31/CEE conforme aux normes suivantes:  
EN50081-1:1991, EN50081-2:1993, EN50082-1:1992, EN50082-2:1994.
- Directive de basse tension** 73/23/CEE conforme aux normes suivantes:  
EN60204-1:1997:ED4.
- Informations supplémentaires** L'équipement est conforme aux standards américains:  
NEPA 79-1997, UL508 ED14 22-2-88.

La déclaration ci-dessus a été faite d'après la méthode globale, module A

Date: 20.01.1999

Klaus Kisbøll, Chef du service développement, Struers A/S