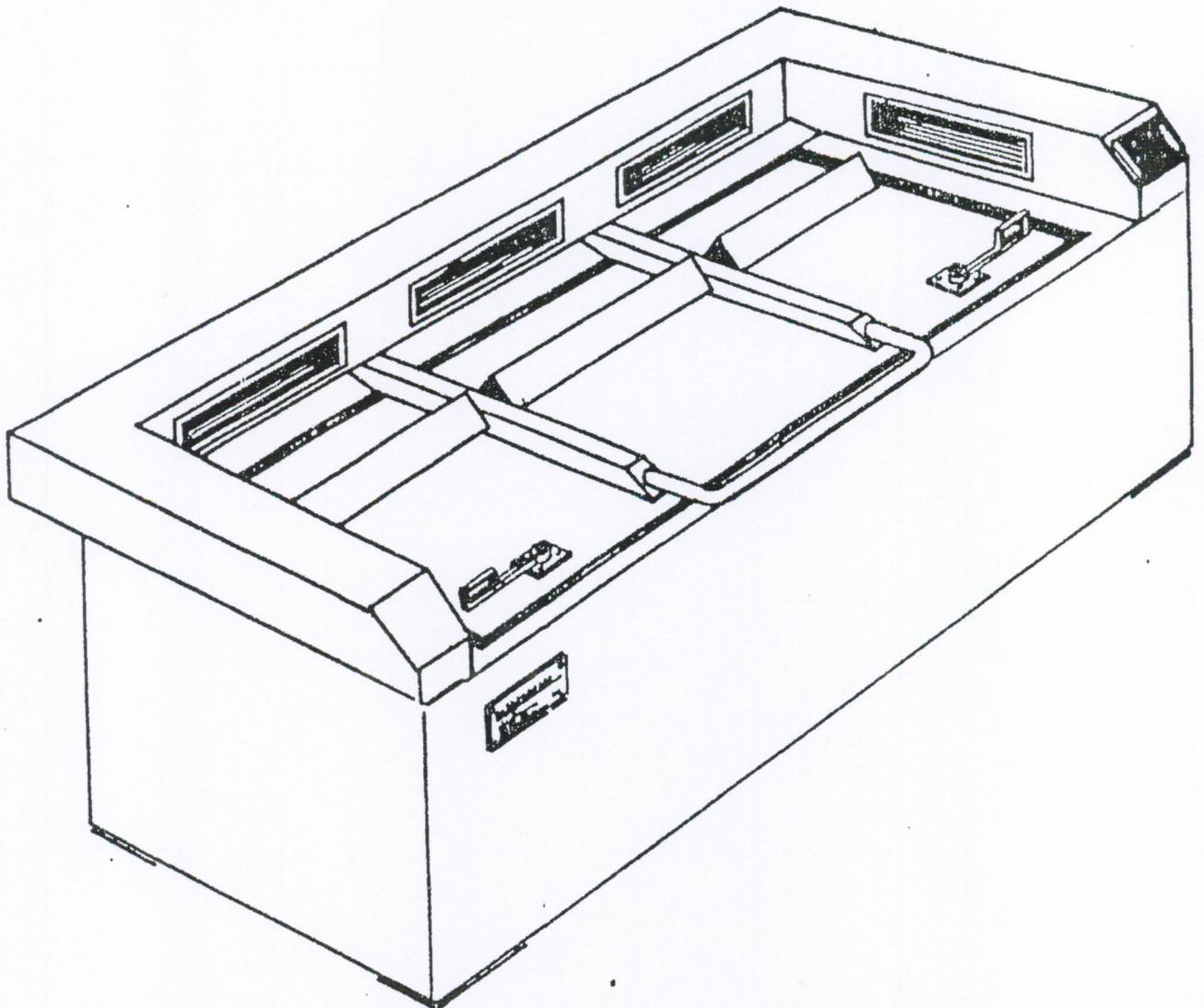


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**D.W.  
RENZMANN**  
GmbH

# Washing Machine Type 134



**D.W.  
RENZMANN**

GmbH

Bedienungsanleitung  
Instruction- and Service Manual

D.W. Renzmann GmbH  
D-6557 Monzingen  
W-Germany

**CONTENTS:**

- A. General Information
- B. Description of the Machine
- C. Technical Data
- D. Principle of Operation
- E. Maintenance
- F. Causes of Problems and Solutions
- G. Spare Parts

**IMPORTANT**

Installation, connection and commissioning should be carried out in accordance with these instructions.

No claims arising from inexpert handling can be considered under the guarantee.

**IMPORTANT**

Check existing voltage (V) and frequency (Hz); rates must correspond with those specified on the data plates.

**PATICULARLY  
IMPORTANT**

In compiling these operating instructions, we have drawn on the best know-how available.

We reserve the right to make technical changes in line with further developments.

Errors and omissions excepted.

**ANCILLARY  
EQUIPMENT**

An asterisk (\*) indicates ancillary equipment supplied against quotation. if no such equipment has been ordered, these references are not applicable.

**ORDER  
NUMBER**

.....  
Where no number is specified, these instructions should be regarded as general information.

A. General Information

Application: The machine is suitable for washing ink ducts, doctor blades, ink pump reservoirs and printing press parts, as well as for cleaning parts used in ink manufacture or in machine shops, i.e. repair tools.

B. Description of the Machine

The machine essentially comprises the following:

Vessel with lid; geared drive; basket for items to be washed; pump; electrical switch cabinet.

C. Technical Data

Size relating to dimensions of items to be washed:	Size	12	15	18	22	26	30
Basket length	Basket	1200	1500	1800	2200	2600	3000
	Basket height	500	500	500	500	500	500
Minimum filling capacity - solvent:	Litres	130	160	200	240	300	350
Maximum filling capacity:							
Pump output:	cbm/h	30	30	30	40	40	40
	H = m	19	19	19	22	22	22

### Flameproof Protection

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Flameproof protection of the unit can only be guaranteed if the switch cabinet and distillation unit are separated from each other by at least 5 metres or installed in separate rooms.

The location in which the unit is installed is a flameproof area, whereas that in which the switch cabinet is mounted is non-flameproof.

Where electrical apparatus is mounted onto the distillation unit itself, test certificates are enclosed (see attached).

### Intrinsically Safe Circuits - Ex i

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Flameproof protection of electrical equipment requires that ignition of an explosive mixture must either be prevented or rendered ineffectual by means of a suitably thick wall of the units housing such as to contain the resulting pressure rise should ignition occur.

With the type of protection designated Ex i, it is assumed that sparks below a given energy level can not bring about an explosion.

For this reason the thermostats and the float switch are controlled via intrinsically safe relays.

These relays reduce current and voltage so that, even with a direct short circuit, no further sparks are produced.

Use of the relay enables completely standard electrical apparatus to be used in a flameproof area, so long as it is ensured that this is supplied only by the above-mentioned low voltages and currents.

### Blue Cable

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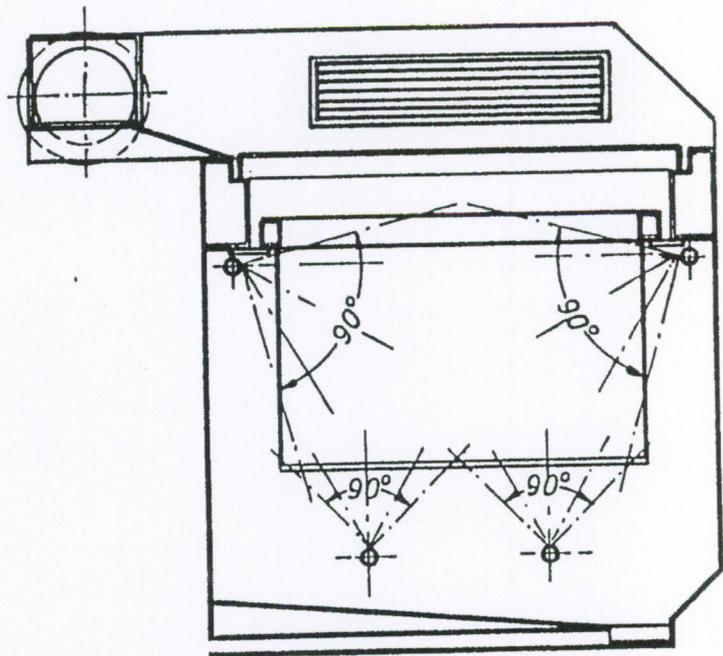
In order to identify intrinsically safe circuits in flameproof areas, blue-coloured cables and terminals must be used.

The cable of the intrinsically safe equipment which is supplied must be laid separately from other cables, especially those with mains voltage.

#### D. Principle of Operation

The parts to be washed are placed in the basket, which is then lifted into the machine. The washing nozzles are directed to sweep over the cleaning zone from four directions and the spray tubes, rotated 90° in their longitudinal axis by a geared drive, guarantee complete, overall cleaning of the items, even when heavily soiled.

Washing time largely depends on the degree of contamination and the extent of ink residue dryness; it must always be calculated in accordance with operating requirements.



Washing machine type 134

**OPERATING INSTRUCTIONS** (see attached pipe work diagramm)  
=====

**BEFORE OPERATION CHECK THAT ...**

- Main switch at control panel is "ON"
- Lid is closed
- Exhaust fan is switched on

1. Load Maschine
2. Close and lock lid
3. Open Valve V1
4. Close valve V2
5. Switch ventilator push button "ON"
6. Switch wash button "ON"  
Washing cycle proceeds and stops automatically providing auto  
rinse cycle fitted, if not fitted, switch off manually
7. Open lid (exhaust fan switches to full speed) and remove items

**FILLING**  
-----

Filling unit with clean solvent (automatic filling only possible if unit supplied with distillate pump, supplied with still tank, or suitable drum pump etc.)

1. Open Valve V4
2. Close Valve V5 and V7
3. Switch FILLING BUTTON "ON"
4. When solvent level reaches underside of bottom spray jet pipes switch FILLING BUTTON "OFF"

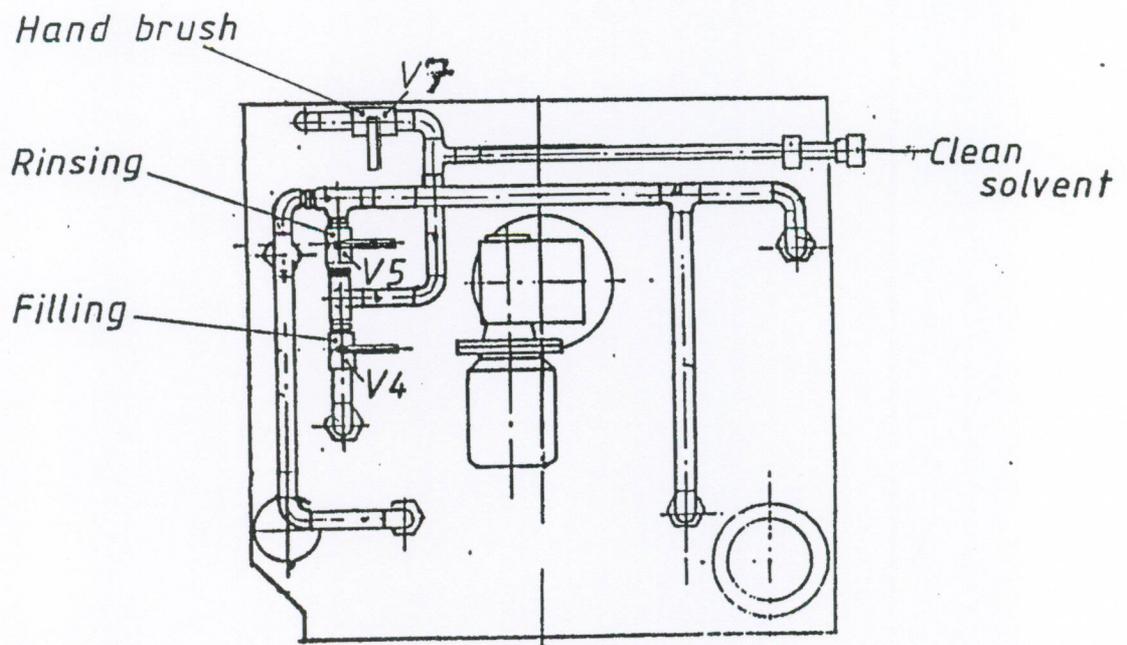
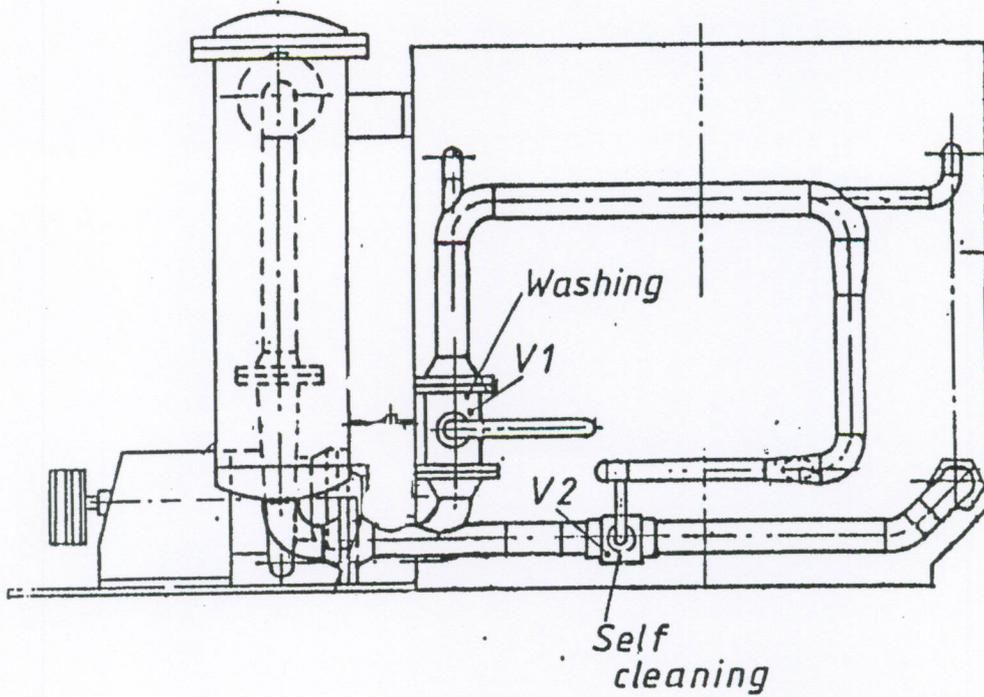
**EMPTYING**  
-----

Important: In order to ensure that all settled out sludge is fully in suspension before emptying, it is essential to operate the self-cleaning system for approximately 10-20 minutes. This is done as follows:

1. Close Valve V1
2. Open Valve V2
3. Switch WASH BOTTOM "ON" (approx. 10-20 minutes)
4. Switch WASH BOTTOM "OFF"
5. Start emptying pump
6. Stop emptying pump as soon as unit is empty
7. Open Valve V1
8. Close Valve V2

**RINSING WITH HAND BRUSH**  
-----

1. Close Valve V4 and V5
2. Open Valve V7
3. Start Filling Pump



Washing machine typ 134

**E.) Care and Maintenance**

=====

Weekly Tasks:

Check switching actin of proximity switch on lid. See Drawings P 911-141-80-4 and F 911-050-75-4. If not order, have it checked by an electrician.

Check whether all pipe connections and seals, as well as the wash pump on the washing machine, are leakproof.

Tasks to be carried out at longer intervals

Remove and clean bottom filter in the opening for the pump suction duct.

Check spray tube bearings for ease of movement

General Note

The ballbearings of the electric motor are filled with grase for the duration of their lifetime. Topping up with lubricant is not necessary.

Washing machine typ 134

F.) Causes of Problems  
and Solutions

The wash pump is making a loud noise.  
The pump is taking in air because there is too little solvent in the machine. Replenish solvent.

The parts are not being cleaned efficiently.  
Check the solvent, i.e. whether the correct solvent is being used. The solvent must dissolve the contaminating inks for washing to be effective. If necessary consult the ink supplier.

The solvent has been in the machine for too long; replace with clean solvent.

The parts are not correctly inserted. Always make sure that the parts are not lying on top of each other. Always see that the containers to be washed are empty.

The wash pump is leaking.  
Perhaps a defective rotary seal. Dismantle pump and renew rotary seal. (See the enclosed information distributed by the pump manufacturer).

Further Important  
Advice:

When pumping out dirty solvent using the wash pump, make sure that this does not carry on running "dry" once the pumping out process has been completed. This could lead to damage of the rotary seal and a leaking pump.

Washing machine typ 134

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**P 911-141-80-4 und F 911-050-79-4**  
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Einstellen der Empfindlichkeit des Deckelendschalters

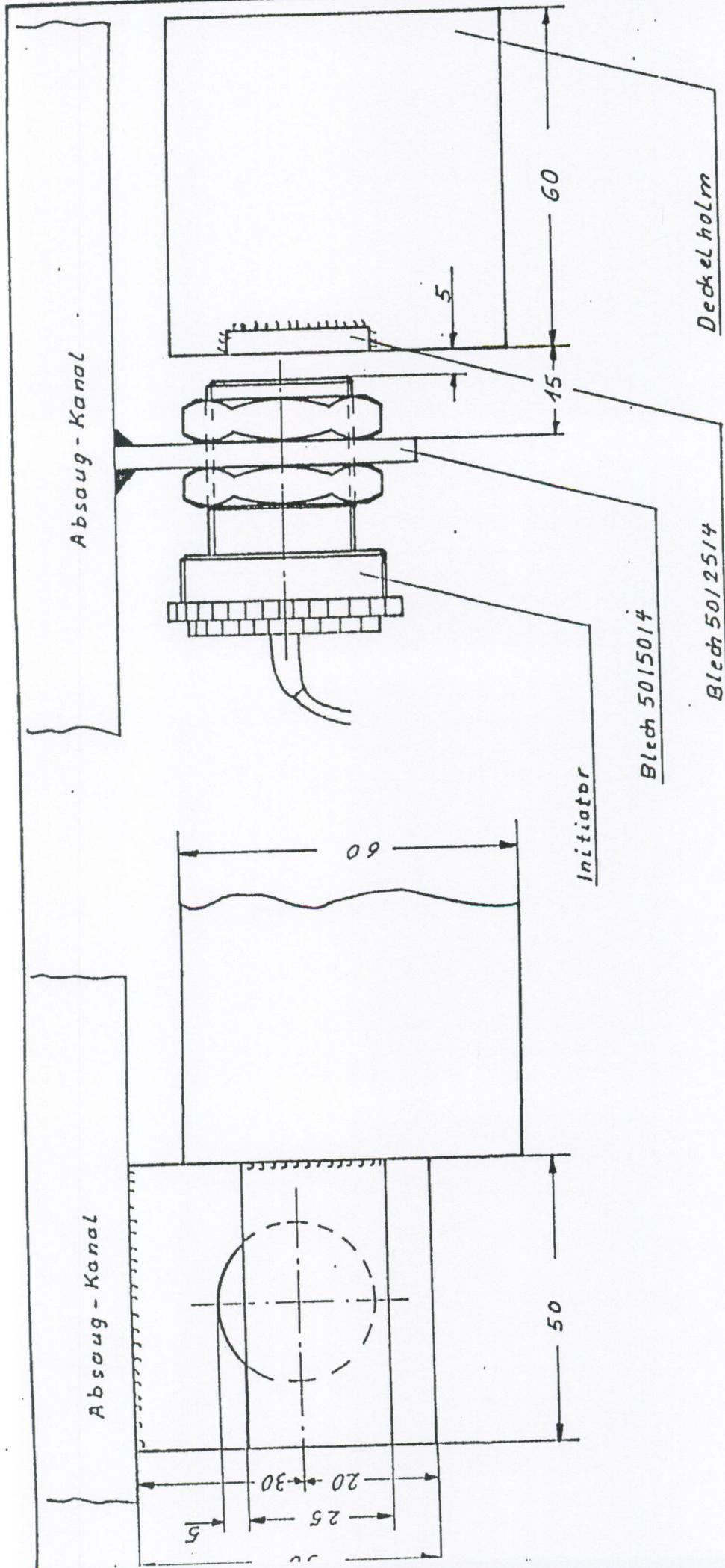
Vergrößerung des Abstands zwischen Kontaktfläche des Initiators Pos. 1 und dem Deckelhahn, Pos. 4 macht den Endschalter empfindlicher, d.h. der Schalter stellt die Maschine ab, wenn der Deckel nur wenig angehoben wird.

Eine Verkleinerung des Abstands macht den Schalter empfindlicher.

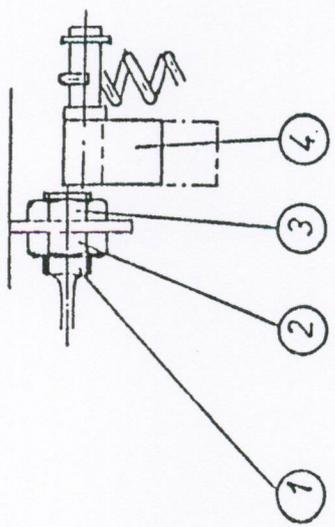
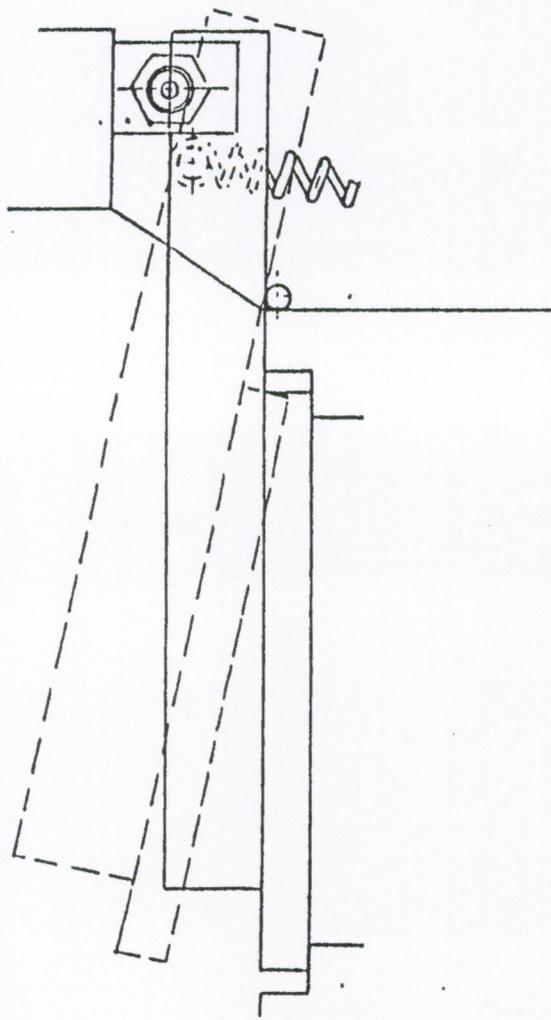
**P 911-141-80-4 and F 911-050-79-4**  
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Adjusting sensitivity of lid switch.

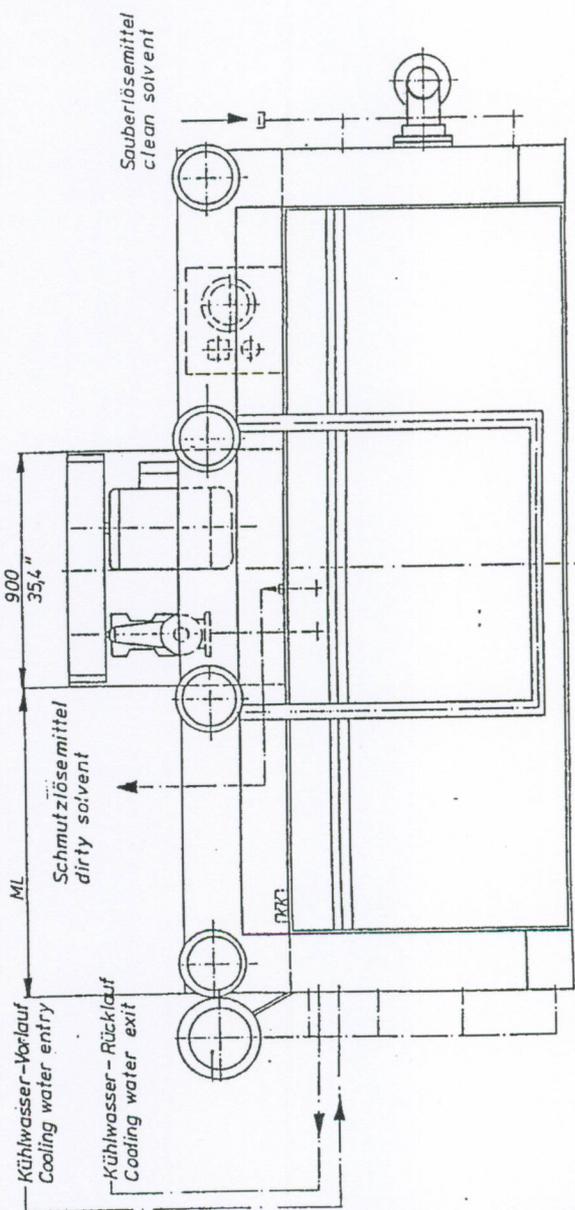
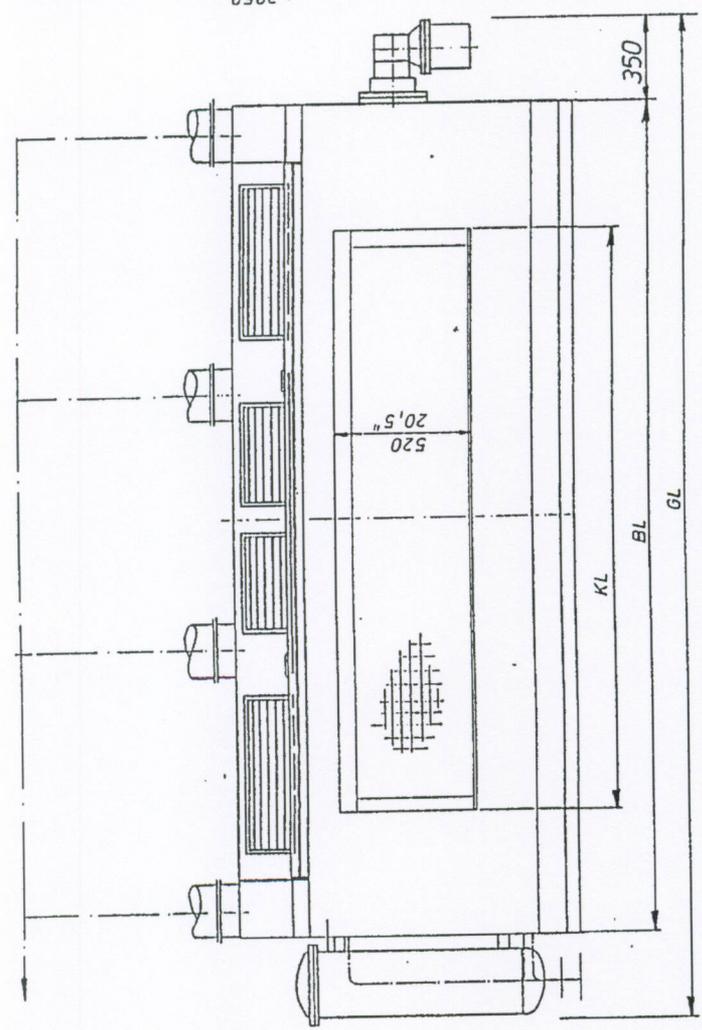
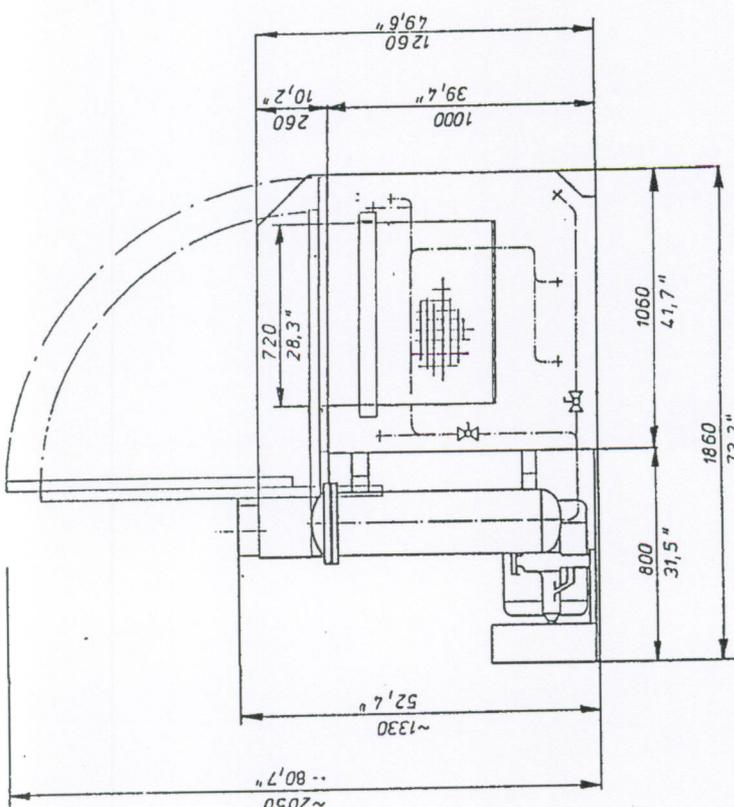
Increasing the distance between the contact surface of initiator item 1 and lid spar item 4 increases sensitivity of switch i.e. the switch turns the machine off if the lid is only slightly raised. Reduction of the distance decreases switch sensitivity.



F 911-050-79-4  
 Anordnung des Initiators  
 und der Schaltfahne



P911-141-80-4



WM	134-12	134-15	134-18	134-22	134-26	134-32	134-35
KL	1200	1500	1800	2200	2600	3200	3500
	47,2"	59,1"	70,9"	86,6"	102,4"	126"	137,8"
BL	1800	2100	2400	2800	3200	3800	4100
	70,9"	82,7"	94,5"	110,2"	126"	149,6"	161,4"
GL	2500	2800	3100	3500	3900	4500	4800
	98,4"	110,2"	122,1"	137,8"	153,5"	177,2"	189"
ML	840	1040	1330	960	1260	950	950
	33,1"	40,9"	52,4"	37,3"	49,6"	37,4"	37,4"

**DW. RENZMANN**

Waschmaschine Typ 134  
Washingmachine type 134

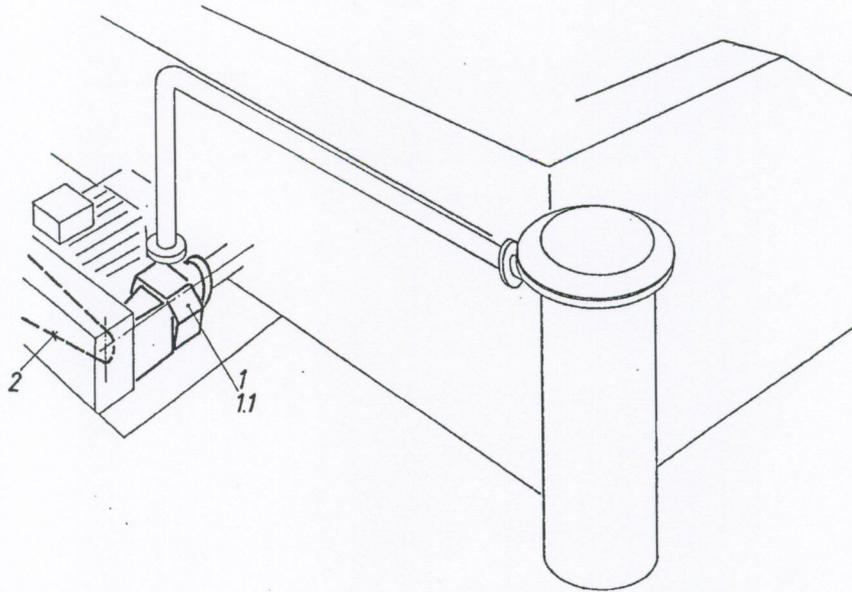
18.12.1986 GmbH

Waschmaschine Type 134  
Washing machine type 134

**Ersatzteilliste**  
**Spare parts list**

**Motor / Pumpe**  
**motor / pump**

Nr. No.	Beschreibung Description	Typ Type	Teile-Nr. Part-No.
01	Waschpumpe washing pump	ALL NS 50-160 u-D-W1	
01.1	Gleitringdichtung mechanical seal	PAC 392 R-030-UUMGG	
02	Keilriemen V-belt	FLE SPB Li-1400 mm	



Bei Bestellung angeben:  
- Kommissions-Nr.  
- Maschinentyp  
- Anschlußmaße/Länge

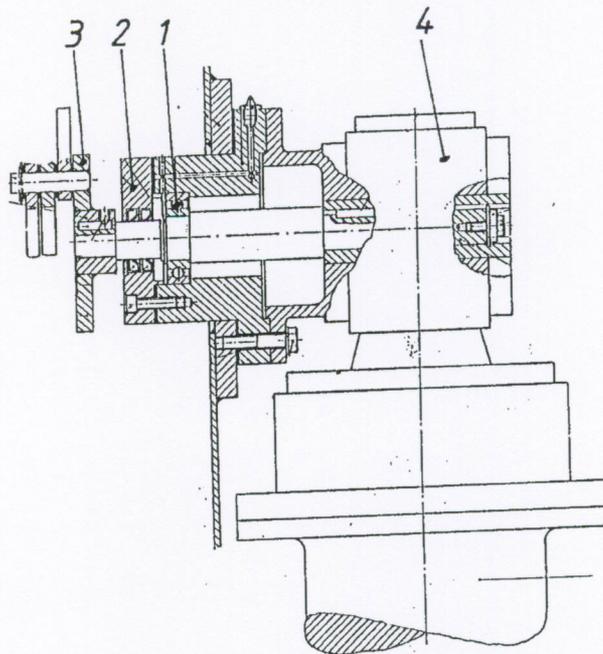
When order, state:  
- Commission-No.  
- Type of machine  
- Connection dimension/length

Waschmaschine Type 134  
Washing machine type 134

**Ersatzteilliste**  
**Spare parts list**

**Antrieb für Spritzrohre**  
**Drive for spray tubes**

Nr. No.	Beschreibung Description	Typ Type	Teile-Nr. Part-No.
01	Kugellager ball bearing	DIN 625 6207 RS	
02	Simmerring oil ring	PTFE 50x30x7	
03	Exzentrerscheibe Eccentric disc	DWR .	
04	Getriebe gear box	LEN i=80 52.114.06.2.0.0	



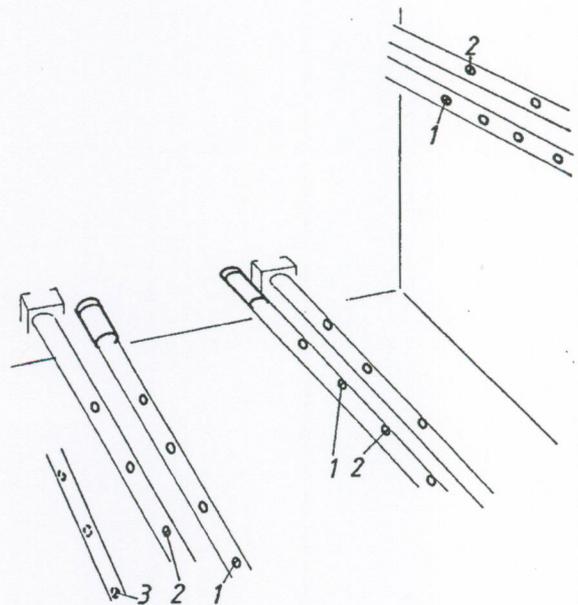
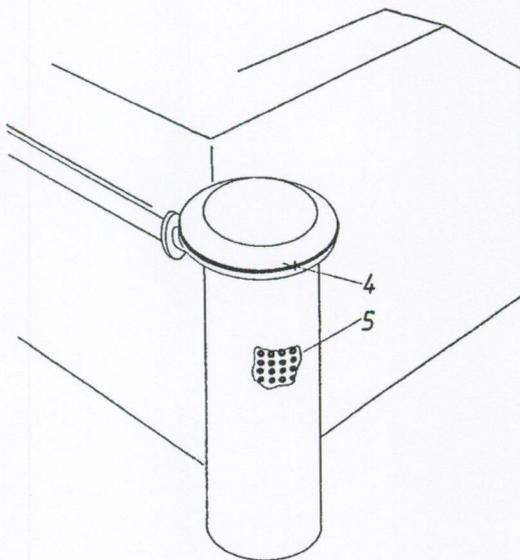
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Waschmaschine Type 134  
Washing machine type 134

**Ersatzteilliste  
Spare parts list****Spritzsystem  
spray system**

Nr. No.	Beschreibung Description	Typ Type	Teile-Nr. Part-No.
01	Düse Waschen nozzle washing	LEC Messing 4 mm-45Grad-1/4"	
02	Düse Nachspülung nozzle rinsing	LEC Messing 2 mm-120Grad-1/4"	
03	Düse Selbstreinigung nozzle self cleaning	LEC Messing 5 mm-45Grad	
04	Filterdichtung gasket for filter	SCH IT 280x256x2	
05	Siebeinsatz strainer scrum	DWR	



Bei Bestellung angeben:  
- Kommissions-Nr.  
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- Anschlußmaße/Länge

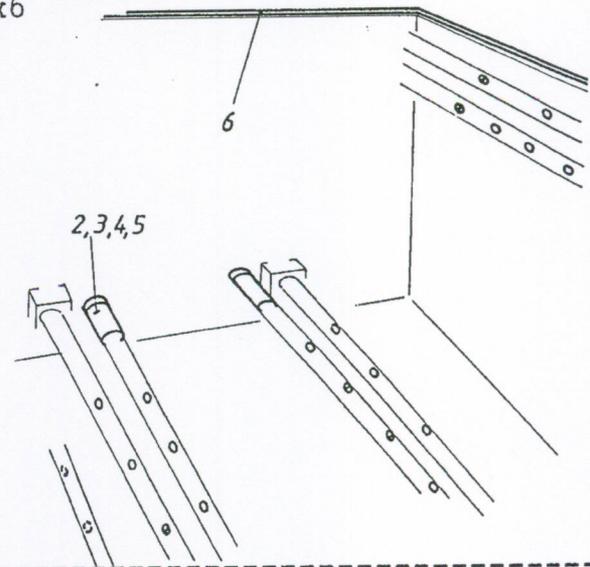
When order, state:  
- Commission-No.  
- Type of machine  
- Connection dimension/length

Waschmaschine Type 134  
Washing machine type 134

## Ersatzteilliste Spare parts list

## Spritzsystem Spray system

Nr. No.	Beschreibung Description	Typ Type	Teile-Nr. Part-No.
02	Schwenklager kpl. pivoted bearing cpl.	DWR	
03	Schwenklager kpl. pivoted bearing cpl.	DWR	
04	Stellring tension ring	DWR	
05	Bronze Buchse bronze bushing	DWR	
06	Filzdichtung felt strip	GER 35x6	



Bei Bestellung angeben:  
- Kommissions-Nr.  
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- Anschlußmaße/Länge

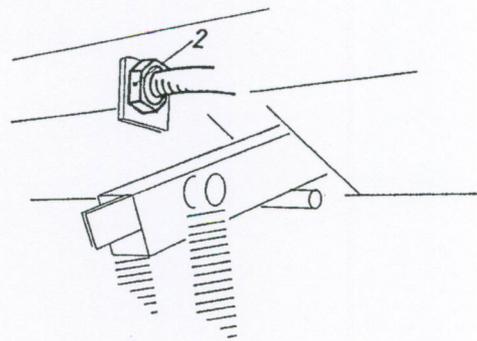
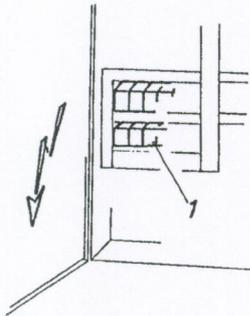
When order, state:  
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- Type of machine  
- Connection dimension/length

Waschmaschine Type 134  
Washing machine type 134

**Ersatzteilliste**  
**Spare parts list**

**Elektrik**  
**electric**

Nr. No.	Beschreibung Description	Typ Type	Teile-Nr. Part-No.
01	Trennschaltgerät Intrinsically safe relay	PEP WE 77 / Ex-2	
02	Näherungsschalter Proximity sensor	PEP NJ 6-22-N-G	



Bei Bestellung angeben:  
- Kommissions-Nr.  
- Maschinentyp  
- Anschlußmaße/Länge

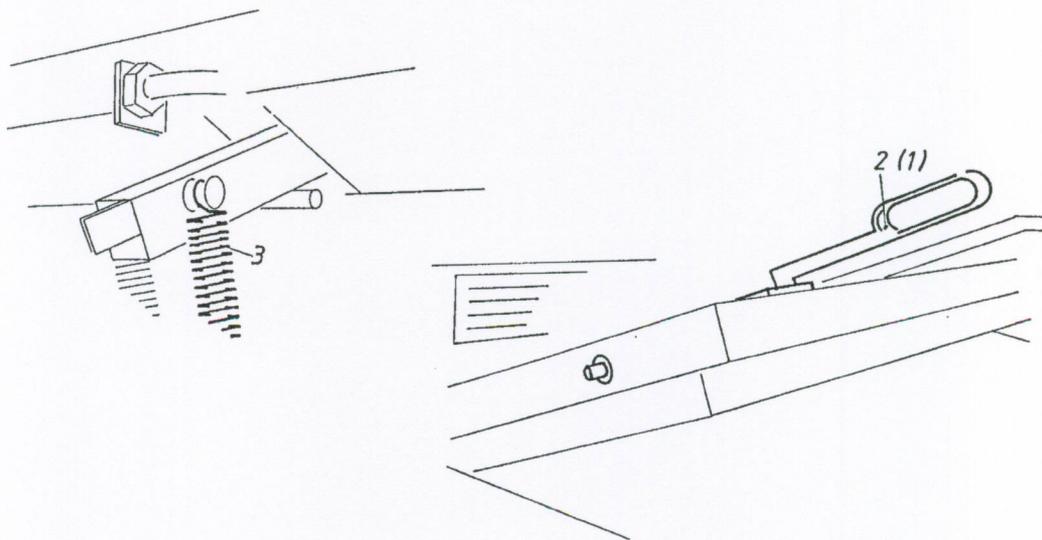
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- Commission-No.  
- Type of machine  
- Connection dimension/length

Waschmaschine Type 134  
Washing machine type 134

**Ersatzteilliste**  
**Spare parts list**

**Deckel**  
**lid**

Nr. No.	Beschreibung Description	Typ Type	Teile-Nr. Part-No.
01	Verriegelung rechts locking mechanism right		
02	Verriegelung links locking mechanism left		
03	Zugfeder spring		



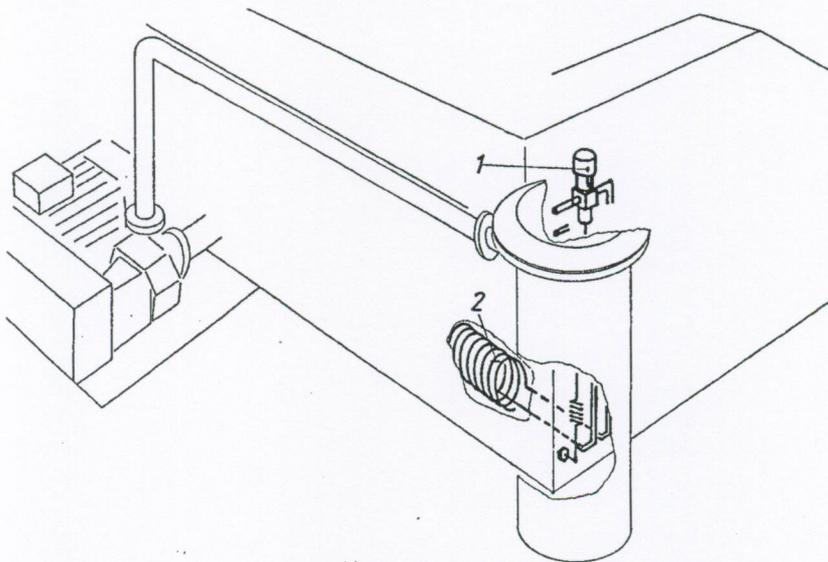
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When order, state:  
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- Connection dimension/length

Waschmaschine Type 134  
Washing machine type 134

**Ersatzteilliste  
Spare parts list****Kühlung  
cooler**

Nr. No.	Beschreibung Description	Typ Type	Teile-Nr. Part-No.
01	Kühlwasserthermostatventil thermostat valve	DAN AVTA 15 R 1/2"	
02	Kühlbündel Cooling coil	DWR	



Bei Bestellung angeben:

- Kommissions-Nr.
- Maschinentyp
- Anschlußmaße/Länge

When order, state:

- Commission-No.
- Type of machine
- Connection dimension/length

Waschmaschine Type 134  
Washing machine type 134

**Ersatzteilliste  
Spare parts list****Hydraulik  
hydraulic**

Nr. No.	Beschreibung Description	Typ Type	Teile-Nr. Part-No.
04	Hydr. Wegeschieber hydraulic valve	HAW SG 0-S-A	
05	Hydr. Wegeschieber hydraulic valve	HAW SG 0-L-A	
06	Rückschlagventil non return valve	HAW B 3-1	
07	Drossel-Rückschlagventil throttle / non return valve	HAW RDF 1-0,8	
08	Rückschlagvent. aufsteuerbar non return valve	HAW RH-1	

Bei Bestellung angeben:

- Kommissions-Nr.
- Maschinentyp
- Anschlußmaße/Länge

When order, state:

- Commission-No.
- Type of machine
- Connection dimension/length