

## Operation manual Single disc machines



### Model overview

Model	RO-1800	RO-2200	RO-3000	RO-3000V
Working power	1 800 W	2 500 W	3 000 W	3 000 W
Rotation	150 rpm	280 rpm	280 rpm	120 - 280 rpm
Working width	400 mm	400 mm	400 mm	400 mm



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### 1 Preliminary notes

Dear customer,

you have decided for the Roll-single disc machine, the correct choice for quality and performance.

This operation manual contains important notes for the operation of your machine.



#### **Note**

*Please read the operation manual carefully, in particular the safety notes and ensure that all operators read this operation manual prior to operate the machine.*

*Adherence to the safety notes not only helps to protect against potential dangers for health and personal safety but also prevents an improper utilisation of the machine.*

*Pay attention and adhere to all warning labels on the machine. Replace any missing or damaged labels immediately.*

*It is too late if you do it while working!*

*Never allow anybody without sufficient skills and knowledge to operate the machine.*

*This will allow you to operate the machine without running any danger and encountering any troubles. It will help you to avoid any unnecessary delays caused by repairs, and will pave the ground for an optimum utilization and operation of this equipment.*

No liability for the damages which originate from the use of these operating instructions.  
Changes reserve.

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State: June 2010



The operation manual identifies important notes on safety and damage prevention using the following symbols:

Please comply with these instructions to avoid any damages and injuries. They point to a possible dangerous situation. The nonobservance can lead to the death, to heavy injuries and to material damages.



### **Warning!**

Designates a potentially hazardous situation. Please note that failure could cause death or injuries.



### **Attention!**

Designates a dangerous situation. Please note that failure could cause damages at products or others.



### **Note!**

*Important notes on the operation, intended for an optimum utilization of the equipment and other useful information.*

*The operation manual is intended to **accompany the machine**.*

*The operation manual has been prepared by the manufacturer on the basis of his knowledge and experience with respect to design, production and operation.*

*Specific instructions of the user may be added to these operation manual (for example to refer to surveillance and reporting regulations, inter-company maintenance and inspection schedules. The inspection intervals are in accordance with VBG 4 §§ 3 and 5 und § 20 GefStoffV (Regulations of hazardous materials)).*

## **1.1 General notes for the operator**

As a operator you are responsible for:

- The proper and normal operation by trained persons only,
- The adherence to the safety regulations, the safety notes, and the provisions referring to working safety and accident prevention,
- The technical instruction of the operation personnel on the equipment and their reading of the operation instructions of the equipment.

### 1.2 Guarantee and liability

ROLL ensures a guarantee and liability are in accordance with our currently valid general business and sales conditions. The guarantee runs out after 12 months from purchase date.

We reject any guarantee claims for tools which are not in their original condition, or for altered or changed tools or which are not used in accordance to the intended use.

We guarantee free maintenance of this machine when getting carriage paid, in case of damages due to manufacturing defects or material defects; provided that the machine is correct used and not changed or altered. Wearing parts are not under warranty

The guarantee claim expires:

- In case of damages caused by improper operation and utilisation other than intended use.
- In case of incorrect assembly, intervention of unauthorized persons or utilisation of accessories
- or replacement parts that are not ROLL original parts (with exception of commercially available sanding discs).

We strongly recommend the use of genuine ROLL spare parts and accessories even after expiration of the warranty period. This is the only way to ensure an impeccable operation of your machine.

#### **Note!**



*Check the shipment in order to ensure that it is complete in accordance with the chapter „scope of delivery“, and inform your dealer immediately, should any shipment be incorrect.*



## 2 Safety

### 2.1 General information

Adherence to the safety notes helps to protect against injuries and reduces the risk of an improper utilisation of the machine. Every user of this machine and personnel charged with the assembly, maintenance or repair of this machine must have read and understood the contents of the instructions prior to starting any work.

### 2.2 Dangerousness of the machine



#### **Attention, danger of injury at running machine**

**When the machine is started, acceleration takes place (generating a strong jerk). This jerk can be the cause that the operator loses control of the machine in case of improper use.**

**Hold the machine firmly with both hands at the handle.**

### 2.3 Safety instructions (operation)



#### **Warning! Danger of life!**

**When crossing and damaging the electrical cable: DANGER due to electric shock!**

**Perform a safety check prior to each start of the machine:**

- Inspect the connecting cables and connectors/pugs for damage and improper connected load.
- Route the electrical cables properly to prevent persons tripping over them.
- Do not switch on the machine until it is in working position.
- Hold the machine firmly with both hands at the handle.
- Switch of the machine immediately when the operation is completed.

### 2.4 Designated use

The Roll-single disc machine has been designed and built exclusively for sanding, polishing and cleaning of floors.

By no means may the machine be used for the treatment of other surfaces.

Using the machine outdoors is not allowed.

If the machine is used for purposes other than those intended, the manufacturer of the machine can not be held liable for any damage to persons, property or pets resulting from such misuse.



### 2.5 Basic safety notes

The Roll-single disc machine was designed and constructed for its intended use in accordance with the generally approved rules of technology, the industrial safety and accident prevention regulations, and the directive for the safety of machines of the EC.

- Certain dangers may be occurring during the operation of the machine despite all safety and security measures and facilities. This is especially true if
  - improper operation or
  - improper applicationare the cause.
- Failing to adhere to the operation instructions, in particular to the safety notes, will create danger of injuries or even of fatal injuries as also danger of damage to physical assets.



#### **Warning, Danger of electrical shocks**

**Do not use damaged lines and plugs.**

**The machine may be operated only in a technically flawless condition and with all safety facilities fully operational.**

- The parts of the machine that rotate with high rpm. Are protected by protection measures against accidental contact respective introduction of hands.

At some building sites, especially in buildings where the power mains and the fuses are not known, a commercial FI safety plug must be used for safe operation of the machine.

### 2.6 Prerequisites for the user

The users of the machine are required to

- be instructed with the operation of the machine,
- be familiar with and able to execute the operations required for the handling and assembly of the machine,
- be aware of and know the applicable safety regulations for the operation of such machines and adhere to these (cf. The chapter "Preliminary marks"),
- be informed about possible additional local (national) regulations (e.g. with respect to safety facilities),
- be informed about potential threats and dangers arising from the operation of such machines.



### 2.7 Safety and machine protection facilities

The machine is equipped with an electric initial current limiter.

In addition, the manufacturer recommends using FI safety plugs as a personal protection.

### 2.8 Inspection with accordance with VBG 4 § 5 (1) Nr. 2

The user is responsible for ensuring that the machine is inspected with respect to its proper operation in intervals of 6 months. The inspection may only be executed by a skilled electrician or by personnel that has been trained in electrical skills, provided that suitable measuring and test equipment is used.

### 2.9 Safety notes dust

#### Caution! Finest sanding dust



**Fine and finest dust is formed during the sanding. The dust could result in health problems when inhaled. Therefore always carry a dust protection mask during sanding.**

If the sanding machine is subject to normal operation, dust will naturally be generated as a result of parts being rubbed off during the sanding of the wooden covering.

The dust can be vacuumed with the *optional* Roll-vacuum system.

Wood dust in combination with an ignition source and the oxygen present in the air, may cause fires and explosions.



#### Attention, Dangerous for health!

**Wood dust, in particular such with impregnation materials, detergents and layers, may cause allergic reactions after a sensibilization, e.g. of the human skin or the respiratory system. The dust of beech wood and oak wood is classified as being carcinogenic (cancer of the nasal mucous membrane). The principle responsible for this carcinogenic effect is yet unknown. The dusts of other types of wood are also suspected of having a carcinogenic effect.**

#### Caution! Danger of fire! Smoking is forbidden.



**Fine dust is easily flammable.**

**During the sanding operation, do not smoke and keep the rooms well ventilated.**



### 2.12 Danger of cut



Caution! Danger of cut by sharp edges while mounting of sanding discs or special discs!



Attach the sanding disc carefully.  
While attaching or changing of the sanding disc wear protective gloves.

## 3 General instructions for the user

### 3.1 Scope of delivery



1. Complete handle
2. Complete machine housing
3. Operation manual

### 3.2 Disposal

The cardboard is usable again and can be used for storage. We recommend to keep the cardboard for the purpose of possible back delivery for the examination or repair.

### 3.3 Dimensions / Weight / Technical details

<b>Total weight:</b>	RO-1800	44,- kg
	RO-3000	55,- kg
	RO-3000V	63,5 kg

<b>Dimensions</b>	RO-1800	1200 x 450 x 550 mm
	RO-3000	1200 x 450 x 600 mm
	RO-3000V	1200 x 450 x 650 mm



### 4 Assembly

The machine is delivered ready to use.

The assembly of the sanding or special disc occurs only at the application place.

### 5 Transport

In many cases it is inevitable to transport resp. carry the machine to the point of utilisation.

Due to the low weight and the manual measurements no instruction references are required for this.



**Caution, Fragile!**

**Do not throw the machine and do not transport it without securing it onto the load area.**

### 6 Operation

#### 6.1 Assembly of the disc (accessory)



1. Switch off the machine and disconnect the connection cable from the mains. Turn over the machine backward on the floor with upright handle. For this push on the back wheels.
2. Lock the discs in loose flange of the machine (Bayonet connector). Set the machine in horizontal position again.
3. **Attention:** Do not set the machine on accessory discs and switch on the machine to lock in – machine and discs can be damaged - no guarantee!



To loose the disc – turn clockwise

#### 6.2 Preparation of the machine

##### Adjustment of the handle

For a light and exact use of the machine the right height setting of the handle is important.

To adjust the handle, pull right lever and adjust the handle in the right position, body height of the operator (basin-height).

### 6.3 Liquid tank (optional)

The liquid tank is mounted on the handle of the machine and is used to put the cleaning agent onto the floor during the work.

Use: Pull the lever of the spray device and dispense the cleansing liquid steadily on the ground.



After the use empty the liquid tank to avoid crustification by cleansing liquid.

### 6.4 Starting the machine



**Caution, Danger of injury!**

**The motor starts immediately when turned on.  
Hold the machine firmly *with both hands*.**

#### Working steps:

1. Place the machine upright with attached disk
2. To adjust the handle, pull right lever and adjust the handle in the right position, body height of the operator (basin-height).
3. Connect the connection cable.



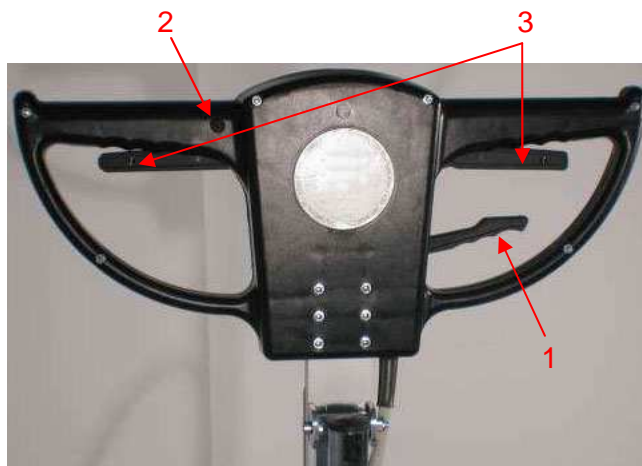
Make sure you have the right frequency and voltage before putting the plug in the power socket. Check instructions showed on the machine identification plate.



In old buildings we recommend to use the Current limiter for soft starts Article 1914925



4. Switch on the machine by pushing the safety switch (2) and one of the double-sided start lever (3).
5. The machine stops by releasing the start lever.





### 6.5 Leading the machine

By slight push of the handle down the machine turns to the left.  
By slight pull of the handle up the machine turns to the right.



**Caution!** Move the handle very carefully. By release and holding of the handle in the same position, machine turns on the same place.



**Attention!** When crossing and damaging the electrical cable:  
DANGER due to electric shock!

### 6.6 Speed regulation (RO-3000V only)

With the Single disc machine RO-3000V you can switch the speed between 120 rpm and 280 rpm.

With the push-button at the back side of the handle you can switch the speed to 308 rpm.

The conversion occurs with the rotary counter on the front of the handle.

### 6.7 After the operation

1. Dismount and clean the disc resp. the special disc.

#### Operation steps:



1. Switch off the machine and disconnect the connection cable from the mains.  
2. Tilt back the machine to the floor with vertically put handle.  
3. Unlock the flange of the disc from the machine (Bayonet connector). Put the machine in horizontal position again.
2. Roll up the connection cable

Roll up the cable around the lower cable holder and the handle grip.




- Attention!** Check the cable while rolling up and remove impurities like dust and sanding remainders.
3. Clean the liquid tank

After the use empty the liquid tank to avoid crustification by cleansing liquid.



### 7 Inspection before, during and after the operation

Machine component	Frequency	Measure
Electric connection	Check before the use	Check whether the mains voltage of your household are identical with the information on the machine sign and that the plug disposes of an adequate ground.
Electric cables and connectors	 <b>Attention! Danger to life due to electric shock! Never use damaged cables or damaged connectors.</b> Check state.	If the cable is damaged, have it repaired by the professional electricians or by the manufacturer.
Disc / Special disc	Check before the use	Check for cleanness and foreign objects and ease-of-movement; remove sanding remainders and dust depositions. (Stripe education)

### E Annex E: Spare parts list

#### E.1 Ordering information for spare parts

An unmistakable identification and designation of the parts ensures that the correct part will be delivered.

In order to avoid transmission errors and extensive descriptions it is recommended to use only the part numbers in the spare parts list.

#### E.2 Ordering address

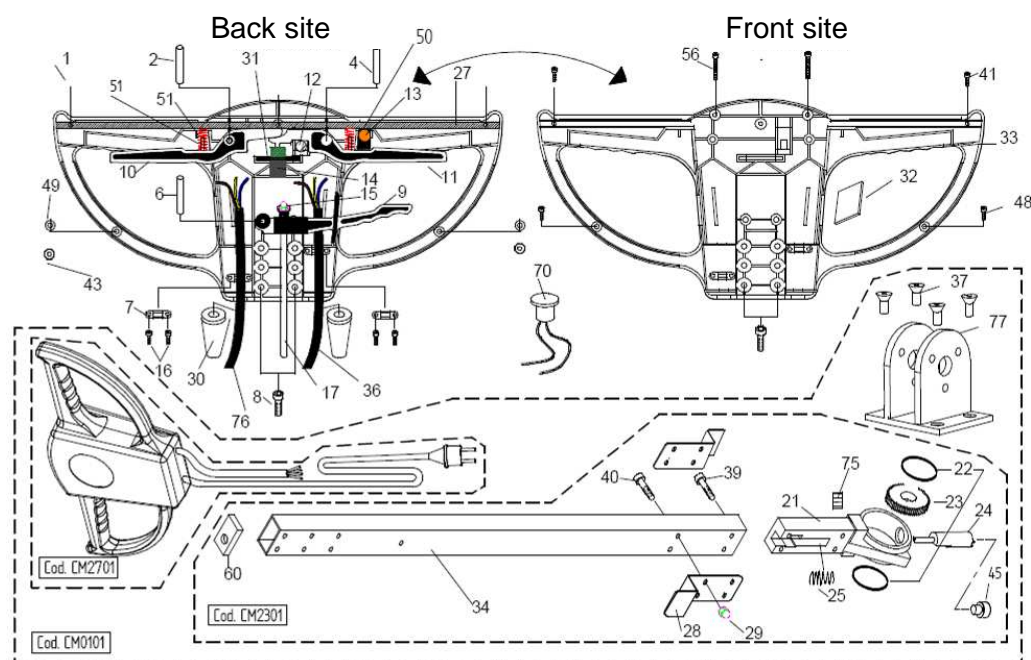
Address your spare parts order to:

**Roll GmbH**  
Albstr. 12  
D-72820 Sonnenbühl  
Germany

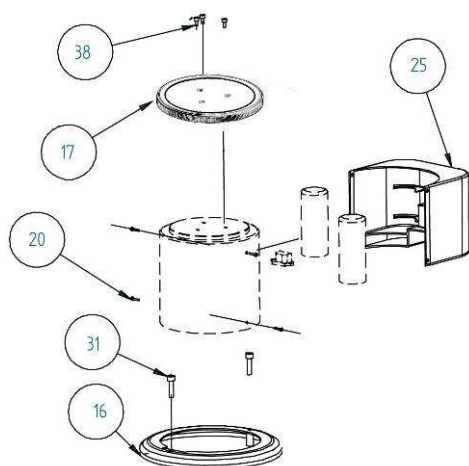
Phone: +49(0)7128-92800  
Fax: +49(0)7128-928011  
E-Mail: [info@roll-gmbh.de](mailto:info@roll-gmbh.de)  
<http://www.roll-gmbh.de>

### Exploding view RO-1800

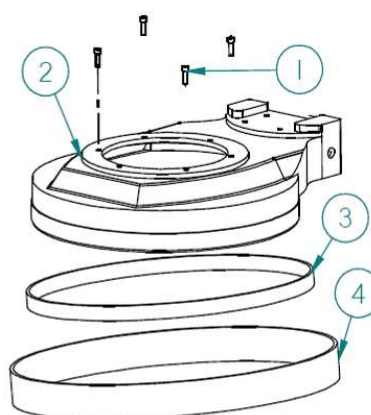
#### Complete handle



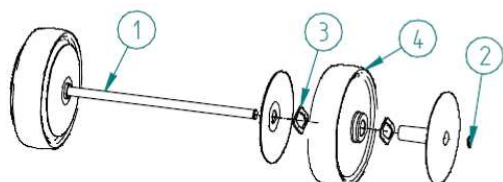
#### Motor covering



#### Machine housing

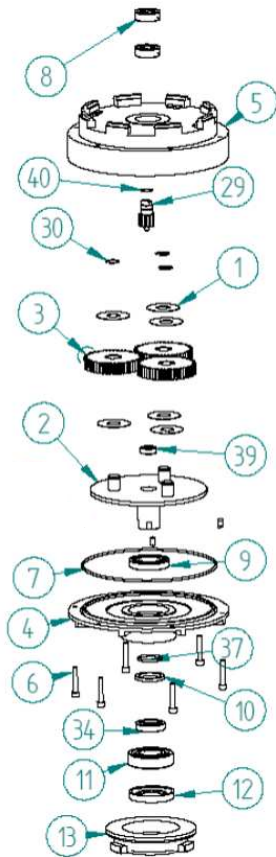


#### Transportation wheels

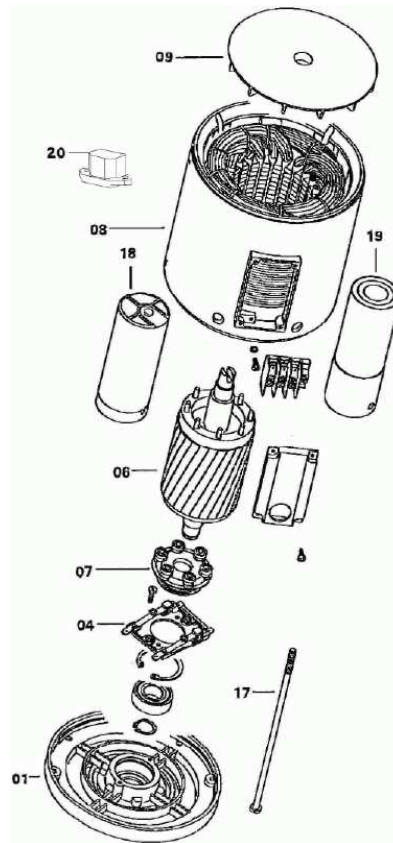


### Exploding view RO-1800

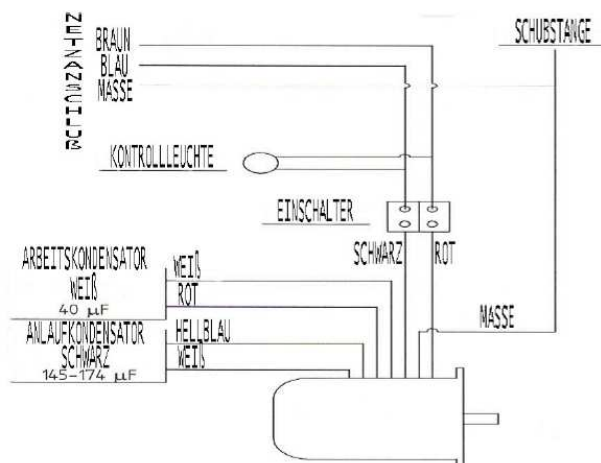
#### Gear



#### Motor

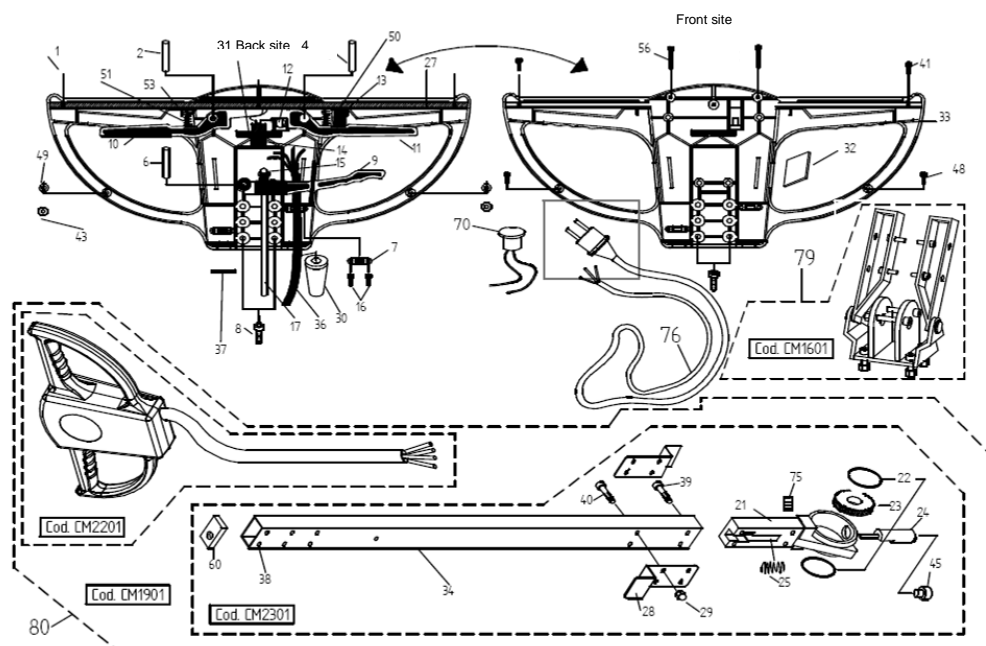


### Wiring diagram

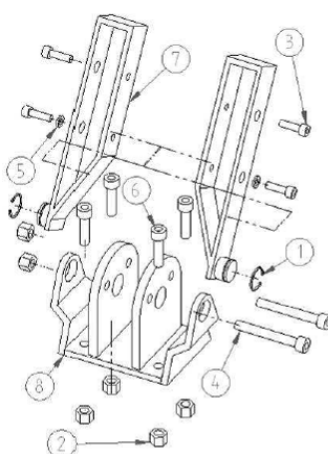
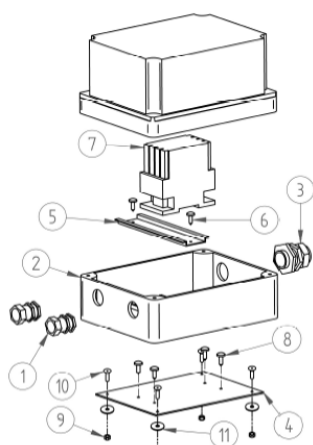




## Complete handle



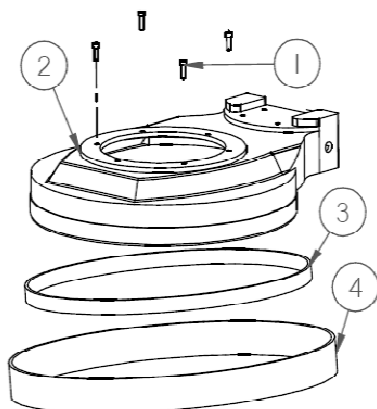
## Reinforced machine support



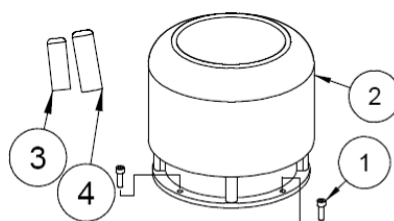


### Exploding view RO3000 / RO3000V

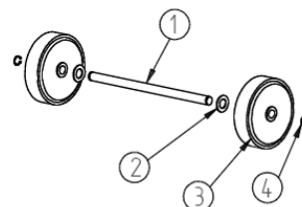
Machine housing



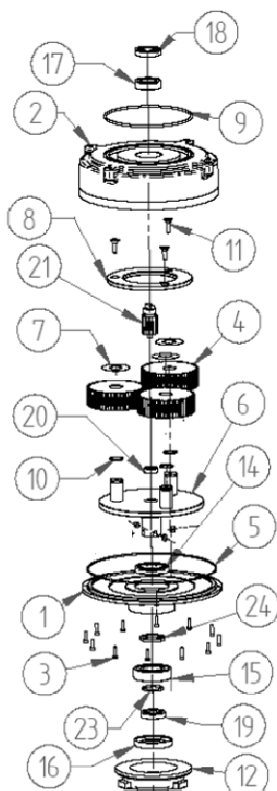
Motor



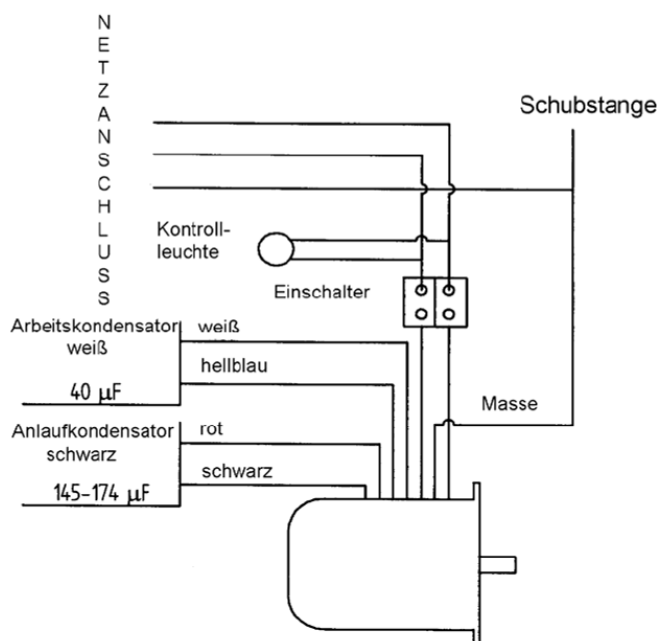
Transportation wheels



Gear



Wiring diagram





### CE Declaration of conformity

We, Roll GmbH, Albstr. 12, D-72820 Sonnenbühl declare on our own responsibility that this product Single disc machine RO-1800, RO-3000 an RO-3000V, corresponds to the following standards or normative documents:

EC GUIDELINES	
CE (98/37/CE) CE (73/23/CEE) CE (89/336/CEE)	
Applied harmonised norms	
EN 60 335 - 2 - 10.1990 BS 5415 SECTION 2.2 : 1986 Referenz # EM 000141 IEC34 - 1; IEC34 - 7: IEC72 - 1 CEI2 - 14	EN60204 EN60034 - 5 EN50081 - 1 EN50081 - 2

This CE Declaration of Conformity was made out mechanically and is valid without sign

Place / Date / Signature

Sonnenbühl 22.06.2011, Roll GmbH