



Operator's Manual

ET9400 Cutting Machine





Imprint

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This Operating Manual of the machine is a translation; the original is in German.

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EC / UK - Declaration of Conformity

In accordance with EC Machinery Directive 2006/42/EC and UK-Supply of Machinery (Safety) Regulations 2008.

The following machine

ET9400

was developed, designed and manufactured in compliance with EC Directive 2006/42/EC and UK-Supply of Machinery (Safety) Regulations 2008, in the sole responsibility of

UNIFLEX-Hydraulik GmbH Robert-Bosch-Strasse 50 - 52 D-61184 Karben

The following standards, codes and specifications have been applied:

- EC Directive 2006/42/EC
- EMC Directive 2014/30/EC
- EN ISO 12100: 2010
- EN 60204-1: 2018
- UK-Supply of Machinery (Safety) Regulations 2008
- UK-Electromagnetic Compatibility Regulations 2016

This declaration are invalid when the machine is modified or if unauthorized and unapproved third-party components are used without our prior approval.

Entity authorised for documentation: Uniflex-Hydraulik GmbH, Technical Documentation Dept.

Karben, 04.10.2022

Managing Director Harald von Waitz



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1 About this document

The "Cutting machine ET9400" is consistently designated as machine in this Operation Manual.

This Operation Manual includes important notes on how you operate your machine/unit safely, properly and economically.

Use not in compliance with the intended purpose may result in hazard to the operator's health and life and/or in the risk of damage to/the machine/unit. Consequently, please only use the machine/unit

- in good order and condition,
- in accordance with its intended purpose,
- in a safety-conscious manner, with awareness of risks and hazards,
- in compliance with all notes included in this Operation Manual.

The machine/unit may only be operated by staff who

- has read the Operation Manual,
- has understood it,
- has been instructed in the operation of the machine/unit, and
- has signed in the Annex.



Figures may include accessories/options. Customer-specific equipment may vary.

The product images shown are for reference only and may differ from the product delivered.

1.1 Target groups

The target groups of this Operation Manual are:

Owner

An owner is a natural person or entity using the device himself/herself/itself, or on whose behalf the device is used. An owner may appoint a representative to exercise the owner's rights and obligations.

The owner has to make sure that

1.1 Target groups

- national provisions, occupational safety regulations and applicable environmental protection regulations are fully complied with;
- persons working on the machine/unit are adequately qualified;
- persons working on the machine/unit are suitable for operating the machine/unit;
- the Operation Manual has been read and understood. One hardcopy of the Operation Manual must always be kept at a designated place where the machine/unit is used.
- persons working on the machine/unit are aware of potential risks;
- the operating staff is familiar with the location as well as with operating the fire alarm and fighting means. Free access to this equipment must be ensured.
- personal protection equipment is worn (safety footwear, protection gloves and safety glasses).

Machine/unit fitters

Machine/unit fitters must be at least 18 years old and have completed training for the task, i.e. they must have attended a specialist vocational training.

A fitter

- must observe the instructions in the Operation Manual;
- must inform the owner on failures and damage.

Operator

An operator is a person charged with and instructed in the proper operation of the machine/unit by the owner or the otherwise contractually obliged person.

The operator

- must observe the instructions in the Operation Manual;
- must inform the owner on failures and damage.
- must not perform and maintenance or repair work on the machine/unit.

1.2 Storage

1.2 Storage

The Operation Manual is part of the machine/unit and must be kept near the machine/unit at all times. Upon disposal of the machine/unit, the Operation Manual must also be handed over.

1.3 Name plate

The name plate is fixed near the power cable.

1.4 Abbreviations

TM cutting knife, plain

TMG cutting knife, with slots

TMC cutting knife, coated

2 Safety instructions

2.1 Presentation of warnings

Warning notes in the Operation Manual warn against risks involved with the handling of the machine/unit. Risk levels are identified as follows:

HAZARD!

The signal word HAZARD identifies an imminent hazard resulting in serious injuries or death. This warning is supplemented by a triangular hazard symbol.

WARNING!

The signal word WARNING identifies a potentially hazardous situation, which might result in serious injuries or death. This warning is supplemented by a triangular hazard symbol.

CAUTION!

The signal word CAUTION identifies a potentially hazardous situation, which might result in light injuries. This warning is supplemented by a triangular hazard symbol.

ATTENTION!

The signal word ATTENTION identifies a potentially hazardous situation, in which the product or property in the environment may be damages. This warning is supplemented by a hazard symbol or a exclamation mark.

2.2 Intended use

This machine is intended for industrial use; it is only suitable for cutting pneumatic and hydraulic hoses up to a specific permissible diameter, see "Technical Data" in Section 3.

Intended purposes include:

- Single user workplace for one person only
- Manual input and retrieval
- Operating temperatures between 5 °C and 40 °C
- Operation in a closed operation room
- The machine must not be operated by persons not capable of operating the machine without any risk. These may include:
 - > persons with physical or mental disabilities;
 - children and persons under age;

2.3 Product-specific risks

persons with a restricted capability for the operation of machines (e.g. under the influence of drugs, alcohol or narcotics)

Use of the control in compliance with the intended purpose also includes compliance with the instructions in this Operation Manual.

Use for other than the intended purpose

Any other use is considered as being not in compliance with the intended purpose, in particular:

- Design modifications of the machine
- Use in explosive environments
- Use of impermissible cutting knives
- Cutting of inflexible workpieces
- misuse of consumables and waste materials.

WARNING!



Risk for life and health!

Use not in compliance with the intended purpose imposes risks for life and health. Consequences resulting from use for other than the intended purpose shall be under the sole responsibility of the owner.

Always use the machine in compliance with its intended purpose.

2.3 Product-specific risks

The machine/unit is designed in accordance with the latest state of technology. Nevertheless, the machine/unit may impose risks:

2.3.1 Risks imposed by mechanical equipment

Cutting risk

A cutting risk exists during cutting and when the cutting knives are replaced.

 Take care and wear cut-proof protective gloves when cutting and replacing knives.

2.3 Product-specific risks

Risk of squeezing

There is a risk of squeezing on the moving parts.

Tilting hazard

The risk of tilting mainly exists while the machine is being transported.

Observe the machine's centre of gravity during transport.

2.3.2 Risks imposed by electricity

There is a risk of electrocution near the live parts!

- Work on electric systems may only be performed by qualified electricians or instructed and trained persons under the supervision of a qualified electrician.
- Deactivate the machine/unit and secure it against unintentional restart before maintenance.

2.3.3 Risks imposed by noise

The noise level meter acc. to IEC 804, Class 2, was calibrated before measuring.

The operation of the machine causes noise emissions of 80 dB(A) at the workplace. Noise protection is required.

Higher noise emissions may occur when other machinery is simultaneously used at the workplace. The machine owner must provide for appropriate protection, e.g.

- instruct staff to wear ear protection;
- provide information/instructions on risks
- identify hazardous areas
- provide health monitoring

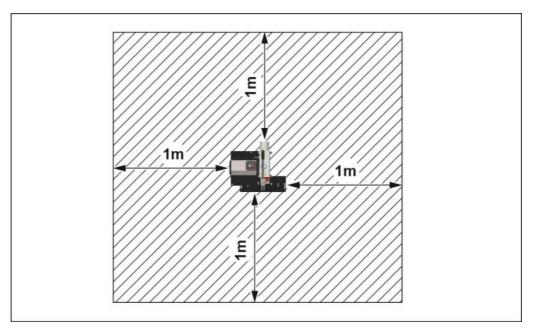
2.3.4 Risks in case of fire

The operating staff has to be familiar with the location as well as with operating the fire alarm and fighting means. Free access to this equipment must be ensured.

Use extinguishing powder in case of fire.

2.4 Safety

2.4.1 Working area

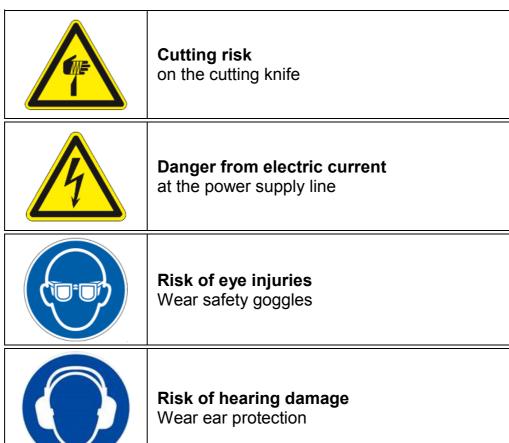


The working area is designed as the area 1 metre all around the machine (shaded).

- Keep the working area free from trip hazards
- Use ducts for lines and cables
- Provide good illumination

2.4.2 Warning signs on the machine





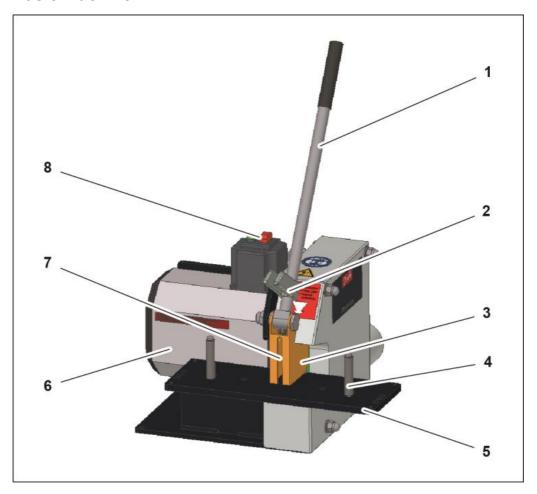
Illegible or missing warning signs must immediately be replaced by the owner.

2 Safety instructions 2.4 Safety			

3 Machine description

3.1 Design and function

Basic machine



- (1) Hand lever
- (2) Retractable fork
- (3) Knife protection (yellow)
- (4) Bending pin
- (5) Cutting plate
- (6) Motor
- (7) Knife (covered)
- (8) Main power switch (red = OFF / grün = ON)

The workpiece is positioned on the cutting plates (5) in front of the bending pins (4). During the cutting process, the hand lever (1) is moved downwards, in the direction of the cutting plate (5). During

3.1 Design and function

cutting, the workpiece is moved towards the knife (7) by the retractable fork (2). The knife (7) is driven by the motor (6). Move the Hand lever (1) back to the starting position after cutting.

Accessories

The machine may be fitted with accessories. A list of the available accessories is included in the Annex, Section "Accessories".

3.2 Technical data

Machine

Dimensions L x W x H 540 x 440 x 300 mm

Weight approx. 43 kg

Noise level 80 dB(A)*

Protection class IP 42

Operation mode S6-40%

Function

Hose feed Manual

Extraction connection Ø 80 mm

Cutting knife TM G 275 x 3 x 30 mm

Workpiece capacity

Workshop SAE R13 & 1^{1/4}"

SAE R15

Production SAE R13 & 3/4"

SAE R15

SAE R12 1^{1/4}"

Industry 2"

Max. outside Ø 80 mm

Electric connection

Connection power 3 kW

Connected voltage 400 V ± 10% 50/60 Hz, 3 phases

(model-specific) (_00)+ PE

230 V ± 10% 60 Hz, 3 phases

(_20)+ PE

Other, customer-specific voltage

variants may exist.

Back-up fuse 400 V = 16 A (delayed)

230 V = 20 A (delayed)

Workbench

Solid, plane workbench with a

carrying capacity of approx. 500 kg

We recommend industrial flooring meeting the following structural requirements

Permanent floor loading Approx. 0.07 kg/mm²

Floor carrying capacity Min. 2500 kg/m²

Floor quality B25

Evenness Max. unevenness 5 mm/m

Inclination max. 5 mm/m

Ambient conditions

Ambient temperature 5 °C – 40 °C

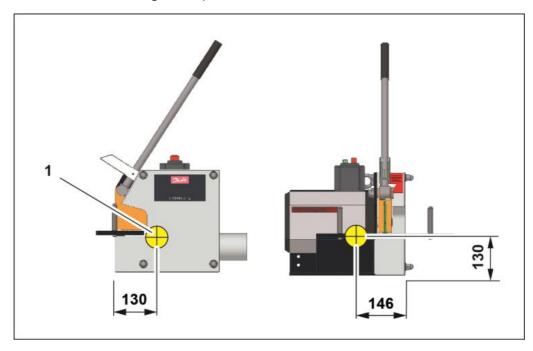
Air humidity 45% - 65%

The *data are theoretical/computed values, or values measured on a prototype. Actual values may vary slightly, depending on the machine.

4 Transport and commissioning

4.1 Transport

The goods should be transported in the original packaging. During transport, the goods must be secured safely within the packaging. All applicable laws and regulations relating to securing loads shall be observed during transport.



The machine can only be transported manually. For machine weight, please refer to "Technical data" in Section 3.

WARNING!



Risks by dropping loads!

Risk of injuries by dropping loads.

Do not stand under suspended loads.

WARNING!



Risk due to increased load weights!

The machine has a weight of over 25kg.

- Transport the machine in twos.
- Use transport aids.
- Lift the machine manually and transfer it to the relevant location.

4.2 Intermediate storage of machine/unit

If the machine/unit cannot be mounted immediately upon delivery, it must be protected against:

- Contamination,
- Weather influences,
- Mechanical damage.

The machine/unit components may only be stored in closed rooms and under the following conditions:

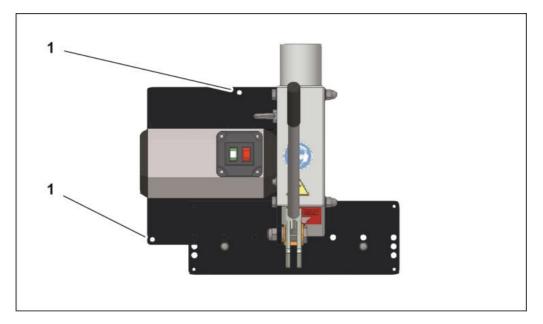
- temperature between 10°C and 35°C,
- maximum air humidity 80% (non-condensating).

4.3 Commissioning

The machine is commissioned by the customer's fitter.

- 1. Lift the machine manually and place it on the optionally supplied table.
- 2. Position the cutting plate flush with the table edge.

4.3 Commissioning



3. Fix the machine on the workbench using suitable screws in the holes Ø10 (1)



Place the machine in a way so that it is easily accessible for maintenance work from all sides.

- 4. Check the machine for damage.
- 5. Check the electric cables for damage.
- 6. Train the operating staff and record training sessions in "Declaration of trained staff", Section 9.

WARNING!



Risk of injuries!

Machine components might loosen during transport. Such components might be flung out during the cutting process. There is a risk of being injured.

- Perform a cutting process in idle mode and without a work piece.
- Check the machine for atypical noise.

4.3.1 Extraction



1. Mount a metal hose for smoke and particle extraction to the extraction nozzle (1).



We recommend an extraction fan with 100mm water column and a capacity of 4m³/min, as well as a filter element and a spark separator suitable for this purpose.

4.3.2 Extraction process for TMC cutting knife

WARNING!

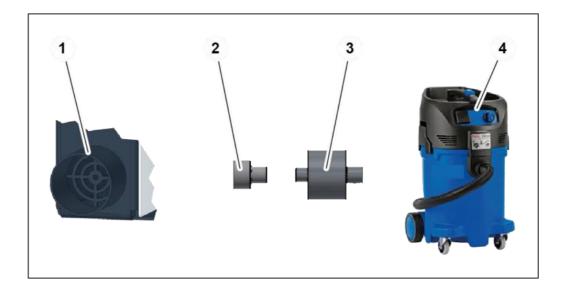


Risk of fire

During cutting, there is a risk for life and health due to the fire hazard from flying sparks.

- Only operate the machine with a spark extinguisher.
- Clean the machine and spark extinguisher after each use (see "Cleaning" in Section 5).

4.3 Commissioning



- 1. Attach the adapter (2) to the extraction nozzle (1) of the machine.
- 2. Attach the spark extinguisher (3) to the adapter (2).
- 3. Attach the metal hose to the spark extinguisher (3) and extraction device (4).



We recommend an extraction fan with 100 mm water column and a capacity of 4 m³/min, as well as a filter element suitable for this purpose.

4.3.3 Electrical connection

WARNING!



There is a risk of electrocution near the live parts!



- Work on electric systems may only be performed by qualified electricians or instructed and trained persons under the supervision of a qualified electrician.
- Do not operate the machine without a sufficiently rated ground wire.
- Deactivate the machine and secure it against unintentional restart before maintenance.

4.3 Commissioning

- 1. Disconnect the power supply for the machine and secure it against unintentional restart.
- 2. Have the power cable of the machine connected to the local mains by a qualified electrician according to the regulations of the Electricity Board.
- 3. Check the electric motor rotational direction according to the arrow. Exchange outer cable (phases) of the connection, if required.

ATTENTION!

Risk of damage to machinery!

Operating the motor in the wrong direction of rotation results in the loosening of the knife attachment.

- Ensure that the rotational direction of the motor is correct. Observe the red arrow on the motor cover.
- If the motor has been operated in the wrong direction of rotation, the securing nut and/or bolt has to be tightened as described in Section 6 "Knife replacement".

5 Operation

5.1 What you have to observe

The operator has received the Operation Manual from the owner, has read and understood it and will observe it.

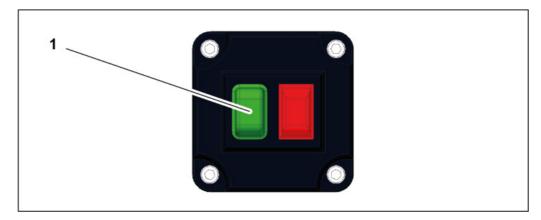
Before starting and/or re-starting

Ensure sufficient illumination of the working area of the machine.

During operation

- Observe the safety instructions on the machine.
- Make sure that no other persons stay in the working area.
- Each movement of the hand must be observed.
- Eating, drinking and smoking at the workplace is prohibited.
- Wear close-fitting clothes.
- Do not wear watches or jewellery.

5.2 Start



4. Activate the power switch (1) (red = OFF / green = On).

5.3 Work piece cutting

5.3.1 Prerequisites

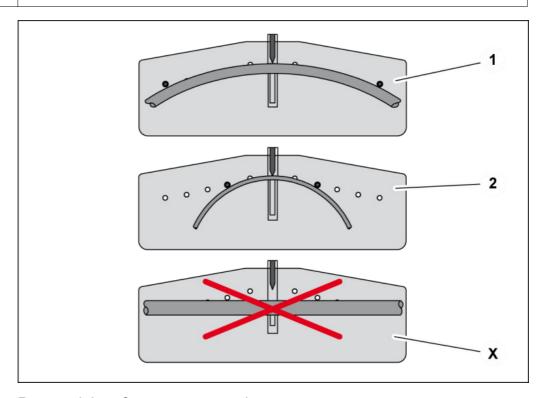
ATTENTION!



Damage to the machine

The knife may be damaged when the machine is operated without hose prestressing.

- Never cut without bending (X).
- · Adjust the bending pin and the workpiece.



Prerequisites for a correct cutting process:

- The bending pin position and the hose diameter are matched to each other:
 - (1) Large hose diameter = large bolt distance
 - (2) Small hose diameter = small bolt distance
- The work piece must protrude over the two bending pins by at least 50 mm.

The work piece must completely bear on the cutting plate.

5.3.2 Hose cutting

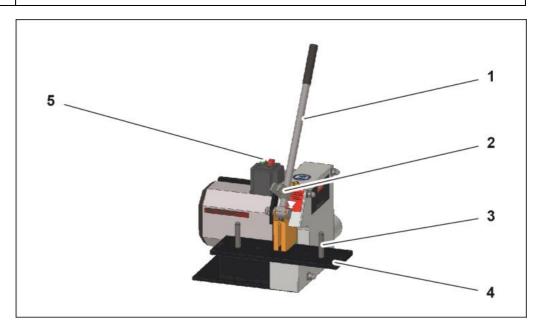
WARNING!



Cutting risk!

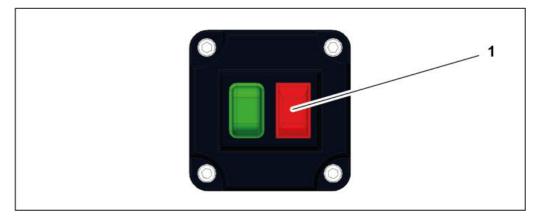
There is a risk of cutting your extremities when cutting workpieces.

• When moving the handle, take care that your extremities are not between the retractable fork and the knife protection.



- 1. Manually place the workpiece on the cutting plate (4) in front of the bending pins (3).
- 2. Activate the machine at the main power switch (5).
- 3. Pull hand lever (1) consistently and slowly.
- 4. The retractable fork (2) guides the workpiece towards the knife.
 - The cutting process is completed.
- 5. Move the hand lever (1) upwards into the starting position.
- 6. Deactivate the machine at the main power switch (5).
- 7. Remove the workpiece

5.4 Stop



- 1. Complete the cutting process.
- 2. Deposit the workpiece outside the machine.
- 3. Deactivate the power switch (red) (1).
- 4. Check the machine for contamination and outside damage.
- 5. Check the cutting knife for damage and cracks.
- 6. Remove contamination, dust and chips using a vacuum.



Inform the fitter in case of damage or other irregularities.

5.5 Overload protection

The motor is protected against overload by a motor protection switch.

After a motor overload, if any, let the motor cool down and restart it.

The restart protection prevents an unintentional restart of the machine. Starting the machine is only possible by activating the main power switch again.

5.6 Cleaning

WARNING!



Risk for life and health!

There is an acute risk of injuries when working in the danger zone of the cutting knife.

- Disconnect the machine from all energy sources and secure it against switching on unintentionally.
- Wear cut-proof gloves.

ATTENTION!



Risk of damage to machinery!

If the machine is cleaned with a steam jet or compressed air, dirt and water may ingress in the machine and cause serious damage.

- Do not use a steam jet to clean the machine.
- Do not use compressed air to clean the machine.
- 1. Use a vacuum cleaner or a soft cloth to clean the machine.



- 2. Loosen the four screws on the cover plate (1).
- 3. Remove the cover plate (1).

5 Operation5.6 Cleaning

- 4. Vacuum the chassis.
- 5. Mount cover plate (1).

6 Maintenance

Regular maintenance will ensure the continuous operation reliability of the device.

6.1 What you have to observe

This Section describes action to be taken by you as the fitter regularly to ensure the troublefree use of the machine.

- Maintenance work may only be performed by qualified maintenance staff (machine fitters).
- Repair work on the machine or components may only be performed by appropriately qualified expert staff or UNIFLEX experts!
- The machine must always be deactivated during maintenance work (see "Deactivation" in Section 5). Attach a sign. Example text:

Machine out of service for maintenance work! Do not switch on!

Welding, flame-cutting and grinding work on and in the machine and its environment must be approved in advance.
 There is a risk of fire. The machine must be cleaned from dust and inflammable substances. Adequate ventilation must be ensured.

6.2 Maintenance schedule

If not specified otherwise, inspections listed in the maintenance schedule are visual inspection. Replace defective parts.

If you work in 2 shifts, the check frequency has to be doubled. If you work in 3 shifts, you proceed as with 2-shift operation.

Record maintenance work performed in the maintenance log.

Maintenance item	Weekly	Monthly	Number of years
Cutting tool			
Check cutting knife for sharpness, cracks and breakouts; resharpen or replace the knife. Coating: to be checked (only TMC cutting knife).	X		
Bolted connections: To be checked and retightened, if required.		X	
Machine: To be cleaned.		Χ	
Extraction line: To be cleaned.			1
Safety equipment			
Knife protection: To be checked for function Press the knife protection on the outside edges towards the motor with both thumbs wearing cutting protection gloves. There must be a significant resistance.	X		
Warning signs on machine: Check legibility (see "Warning signs on the machine" in Section 2).		X	



The replacement of wear parts must be recorded in the maintenance log!

6.3 Knife replacement

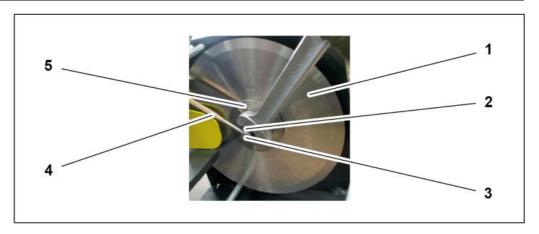
WARNING!



Cutting risk!

Knife replacement imposes a significant risk of injuries to the hands.

Always wear cut-proof gloves when replacing the knives.



- 1. Complete the cutting process.
- 2. Deposit the workpiece outside the machine.
- 3. Disconnect the machine from the power supply.
- 4. Loosen the four nuts on the cover plate.
- 5. Remove the cover plate.
- 6. Hold the drive shaft (3) using a pin punch (4) and loosen the nut (2) counterclockwise using a jaw or ring wrench SW 30.
- 7. Remove the knife (1) and the washer (5) from the axle and position them carefully.
- 8. Mount a new knife observe cutting direction.
- 9. Position the washer (5) and tighten the nut (2).
- 10. Remount in the reverse order.

ATTENTION!



Risk of damage to machinery!

If the directions of rotation of the motor and the knife do not match, there is a risk that the knife will be destroyed during cutting.

Check the direction of rotation before starting the machine.

7 Troubleshooting

Error	Cause	Remedy
Machine does not cut	Switch "OFF"	Activate switch
	Power plug defective	Check power plug and replace, if required
	Motor defective	Contact Service desk
	Cutting knife worn	Check cutting knife for wear and replace, if required

8 Decommissioning, disposal

WARNING!



Risk by electrical voltage!

There is a risk of electrocution near the live parts!

- Shut down the machine/unit.
- Disconnect the machine/unit from the power supply.

CAUTION!



Risk of injuries!

Contact with consumables, e.g. oils, greases, test media, imposes a risk of injuries for the skin, eyes, respiratory and intestinal tracts!

- Observe supplier's protection and safety instructions (see data sheet).
- Wear personal protection equipment.
- Do not eat, drink or smoke in the working area and when handling consumables.
- Ensure good ventilation.

8.1 Dismantling

This section describes activities to be performed by you as the operator to ensure the safe dismantling of the machine/unit.

- The machine/unit may only be dismantled by entrusted and qualified staff.
- Check the machine/unit for mechanical tension and consider it during dismantling.

8.2 Recycling

The machine/unit contains metal, hydraulic hoses, electric cables and electronic components, depending on the type.

As regards disposal, the applicable national environmental protection and waste disposal regulations have to be complied with.

8.3 Consumables and waste

8.3 Consumables and waste

Observe applicable national environmental protection and waste disposal regulations.

Return consumables, e.g. oils, greases, test media, to supplier - they are hazardous waste. Also observe the information given on the safety data sheet.

9 Annex



Individual machine/unit components may deviate in their features. Please indicate the serial number of the machine for spare part orders.

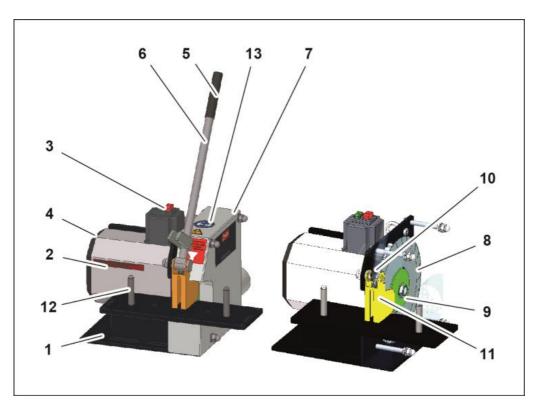
9.1 Accessories (upgradable)

Accessories	Article code
Hose guide, 2000mm	UHG 14
Extension, 1000mm	UHG 14 EXT
Suction system	UVC S36
Hose length measuring device	UMS 4
Spark extinguisher	330.050
Vacuum adapter	777.056
Bench	TU
Cutting knife with inclined slots	TM G 275x3x30
Cutting knife, coated	TM C 275x3x30
Cutting knife flat	TM 275x3x30
Suction filter system	UVC 100.2 MVA FSD

Please contact our Sales department for ordering optional accessories.

9.2 Spare parts list

9.2.1 Mechanical / Electrical



Item	Quantity	Part code	Designation		
1	1	301.018.0	Chassis		
2	1	300.050	Electric engine 230 V, 400 V; 50 - 60 Hz, 3 phases		
3	1	300.051	Spare electrical switch for motor 300.050		
4	1	300.052	Spare brake		
5	1	Nr. 84 Ø21x120	PFC handle		
6	1	300.2001	Hand lever		
7	1	301.013.1	Cover		
8	1	TM G 275x3x30	Cutting knife		
9	2	300.053	Flange disc for motor 300.050		
10	1	D-174867	Pressure spring EM3		
11	1	301.109.4	Knife protection		
12	1	304.2001	Set of bending pins		
13	1	300.6000	Sticker set EM3.3		

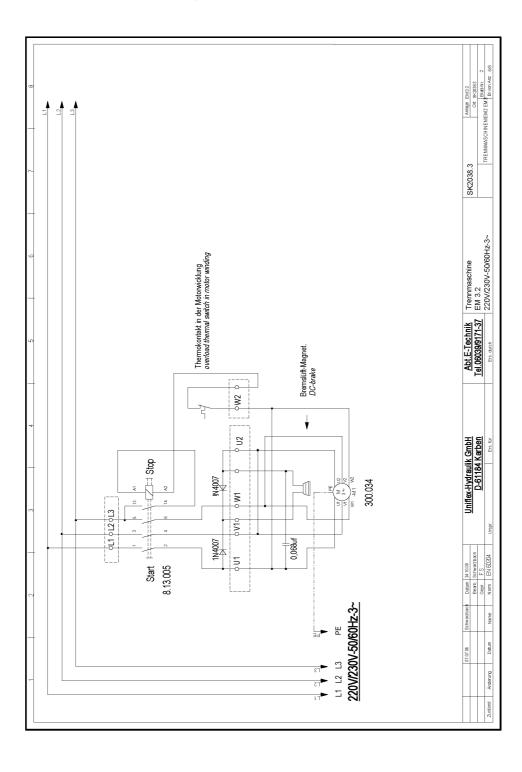
9 Annex

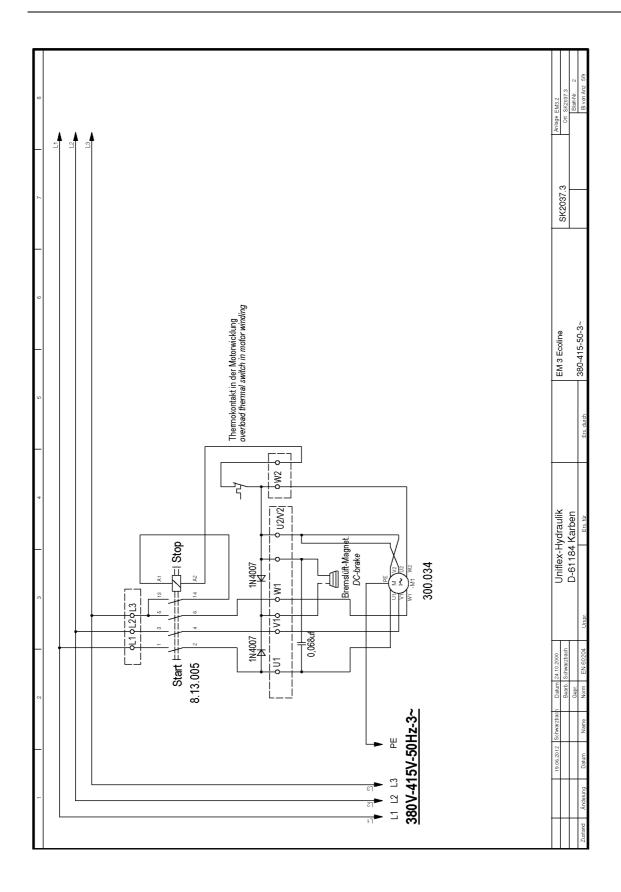
9.2 Spare parts list

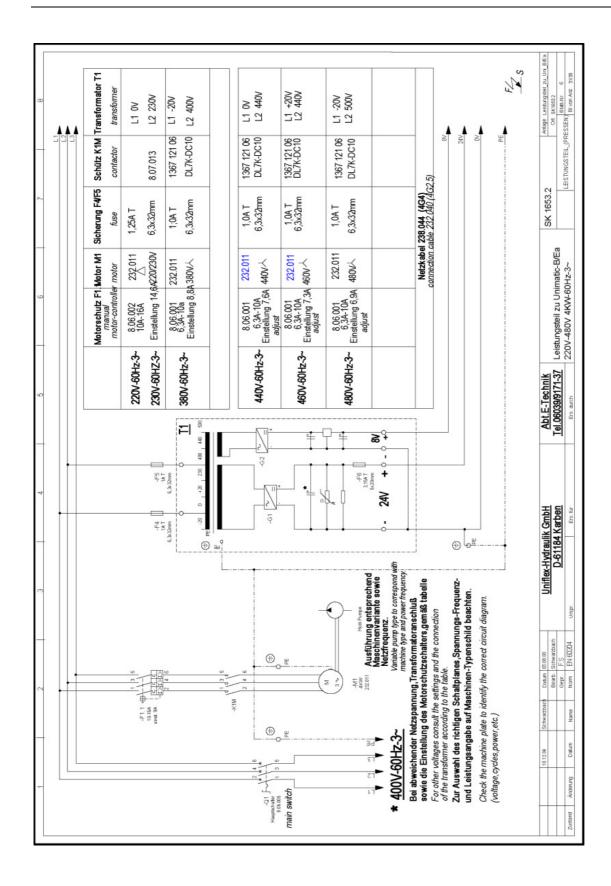
9.2.2 Wear parts

Quantity	Article code	Designation
1	TM G 275x3x30	Cutting knife with inclined slots
1	TM C 275x3x30	Cutting knife coated
1	TM 275x3x30	Cutting knife flat

9.3 Electric diagram







9.4 Maintenance log

9.4 Maintenance log

Cutting knife	Guide unit	Extraction line	Knife protection	Remark	Date	Signature

9.5 Declaration of qualified staff

I herewith declare that I have attended an internal training for the operation of the UNIFLEX machine and have been informed on all safety-related details. In addition I declare that I have read and understood this Operation Manual completely.

City	Date	Name	Signature
City	Date	Name	Signature
City	Date	Name	Signature
City	Date	Name	Signature
City	Date	Name	Signature
City	Date	Name	Signature

5 Declaration of qualified staff					

9 Annex

9 Annex 9.5 Declaration of qualified staff					



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