Translation of the Original Operating Manual

Tile cutting machine – TS250A

Read operating manual before starting any work!
Keep the operating manual for future use!

(086)

CE

Revision			
Date	Chapter	Reason for change	Person responsible
05-20		Reissue	Design

Revision status: 05.2020
Serial number:

Dommersbach 51
D- 53940 Hellenthal

Tel.: +49 (0)2482 – 12 200
Fax: +49 (0)2482 – 12 222

email: info@goelz.de
website: www.goelz.de

1 Content

2 General

2.1 Operating manual

This operating manual provides guidance on safe and efficient operation and should form a basis of any actions involving the machine. It is an integral part of the machine, which should be kept in the immediate vicinity accessible for its operating personnel.

Prerequisite of safe operation is adherence to all safety and handling instructions.
Therefore, before starting any work, the personnel must read carefully and understand the operating manual.

Moreover, the accident prevention regulations applicable at the site of the machine operation and general safety regulations must be complied with.

2.2 Symbols, acronyms, terminology

Symbols, acronyms and specialist terminology used in this document have the following meaning:

→	See item
▶	Enumeration
-	Enumeration
1	Position number
1.	Action step
Text in italics	Explanation of facts
🕮	Refers to the document contained in the enclosed documentation. The source of the document is specified in italics behind the symbol.

2.3 Explanation of symbols

Warnings and safety instructions

Warnings and safety instructions in the manual are identified with the pictograms and provided in blocks highlighted in grey.

Warnings and safety instructions, which draw attention to fundamental dangers, are additionally preluded by signal words, which specify the scope of damage. Their structure is as follows:

SIGNAL WORD!
Origin of the danger.
Consequences of ignoring the danger.
- Actions to avoid danger

- ▶ All warnings and safety instructions must be implicitly complied with!
- ▶ During the works, always act with caution, to avoid accidents, personal and material damage!

Pictograms combined with signal words mean:

DANGER!

... draws attention to an immediate danger that, if not avoided, may result in heavy or even fatal injuries.

WARNING:

... draws attention to potentially dangerous situations that, if not avoided, may cause heavy or even fatal injuries.

CAUTION!

... draws attention to potentially dangerous situations that, if not avoided, may result in slight injuries.

ATTENTION!

... draws attention to potentially dangerous situations that, if not avoided, may result in material damage.

Tips and recommendations

NOTE!

… highlights tips and recommendations as well as information on efficient and trouble-free operation.

Special safety instructions

To make aware of special dangers, the following pictograms are used in combination with the safety instructions:

… marks danger due to electric current.
Failure to observe the safety instructions leads to danger of heavy or fatal injuries.

… marks danger of crushing.
Failure to observe the safety instructions leads to danger of heavy injuries from moving parts.

… marks danger due to hot surface.
Failure to observe the safety instructions leads to danger of burns and heavy skin injuries caused by heat.

… marks danger from moving cutting wheels.
Failure to observe the safety instructions leads to danger of cuts and heavy skin injuries caused by rotating cutting wheels.

2.4 Liability limitation

All data and instructions provided in this manual were compiled with consideration of applicable standards and regulations, state of the art in this field and our long-standing insights and experience.

The manufacturer accepts no liability for damages caused by:

- Non-observance of the Operating manual
- Unintended use
- Employment of unskilled and uninstructed personnel

- Unauthorised conversions
- Technical changes
- Use of non-approved spare parts

The responsibilities agreed in the delivery contract, the General Terms and Conditions as well as the delivery conditions of the manufacturer and the statutory regulations valid at the time of the conclusion of the contract shall apply.

Warranty

The manufacturer guarantees the functional capability of the applied process technology and performance parameters identified.

The warranty period commences with the defect-free delivery.

Wear parts

Wear parts are all parts having direct contact with the processed or machined material during normal operation.

These parts are excluded from warranty and defect claims, insofar as tear and wear resulting from normal operation.

Service life warranty

Service life warranty is granted for wear parts for the period of 6 months from the acceptance of the defect-free product.

Warranty conditions

12 months after delivery of mechanical and electrical components for one-shift operation, except for the wear parts and tools.

The warranty claim expires, if the system was not installed and started up by our experts.

The warranty extends to the replacement parts.

Consequential damages are excluded.

Damage caused by natural wear, deficient of improper maintenance, failure to comply with the operating regulations, excessive loads and use of inappropriate equipment shall be excluded from the warranty.

2.5 Customer service

Our customer service department is available to provide technical information.

Service hotline
02482 – 12 200

You can obtain tips via the regional competent contact person by phone or via fax, email or website at any time.

Moreover, our employees are interested in new information and experience arising from use and which can be valuable for the improvement of our products.

2.6 Copyright

3 Safety

This section provides an overview of all safety aspects of protection of operators and users from potential dangers, and safe and trouble-free operation.
Disregarding these handling instructions, warnings and safety instructions may pose serious risks.

3.1 Intended use

The TS 250A tile cutting machine is designed exclusively for the following purposes in the commercial sector:

The TS 250A tile cutting machine
- ➢ is designed for wet cutting of the solid construction materials such as:
  Tile, ceramic and marble

WARNING:
Risk of unintended use!

Any use beyond the intended use of the machine may result in dangerous situations.

- The machine must be basically used for the intended purpose according to data contained in this document, in particular, within the application limits provided in the technical data.
- Refrain from any use beyond this scope or different use of the machine.
- Refrain from remodelling, refitting or changing the design or separate parts of the machine for the purpose of changing the field of application or applicability of the machine.

- ▶ Any claims for damages resulting from unintended use are excluded.
- ▶ The operator alone is responsible for all damages due to unintended use.

3.2 Rationally foreseeable misuse

WARNING:
Risk of injury caused by misuse!

When misused, the machine may create dangerous situations for persons and cause heavy material damage.

- Refrain from any misuse of the machine.

Any use of the machine going beyond the intended one, shall be deemed unintended and thus prohibited.

This also applies to:

- ➢ cutting unauthorised construction materials, e.g., timber, metals, plastics
- ➢ cutting any materials other than presented
- ➢ cutting without or with open cutting wheel guard
- ➢ cutting without water
- ➢ removal of clippings in pendulum cutting procedure (vertical plunging into chippings from above)

3.3 Responsibilities of the operator

Operator

An operator is every natural or legal person, who uses the machine or delegates its use to others and is responsible for the safety of the user, personnel or third parties in the course of such use.

Operator's duties

The machine is used in the commercial sector. Therefore, the operator of the machine is subject to statutory obligations regarding occupational safety.

In addition to the warnings and safety instructions in this manual, the occupational safety, accident prevention and environmental protection regulations applicable to the field of the machine operation must be adhered to.

The operator, in particular, must:

- be informed about current occupational safety regulations,
- determine, through hazard evaluation, any potential additional dangers resulting from specific usage conditions at the site of the machine operation,
- put necessary behavioural requirements of the operating instructions into practice during the machine tool operation at the operation site,
- check regularly throughout the service life of the machine, whether the operating instructions drawn up by the operator are in line with the current status of rules and regulations,
- adjust the operating instructions, where necessary, to the new regulations, standards and operating conditions,
- exercise control of the competence for installation, operation, maintenance and cleaning of the machine in a clear and unambiguous manner,
- make sure that all personnel involved with the machine have read and understood the operating instructions. Moreover, the personnel must undergo training in handling the machine at regular intervals and be informed about potential dangers,
- provide the persons appointed for operating the machine with the prescribed and recommended protective devices.

Moreover, the operator is responsible for ensuring that the machine

- is always in a technically perfect condition,
- is maintained according to the specified maintenance intervals, and
- that all safety mechanisms of the machine are regularly controlled for completeness and functionality.

3.4 Responsibilities of the personnel

The machine is in the commercial use. Therefore, the personnel are subject to statutory obligations regarding occupational safety.

In addition to the warnings and safety instructions in this manual, the occupational safety, accident prevention and environmental protection regulations applicable to the field of operation must be adhered to.

In particular, the personnel must:

- be informed about current occupational safety regulations,
- adhere to behavioural requirements set out in the operating instructions issued at the site of the machine operation,
- properly exercise the responsibilities entrusted to them as regards installation, operation, maintenance and cleaning of the machine,
- fully read and understand the operating manual before starting work,
- use the prescribed and recommended protection equipment,

Moreover, scope of responsibility of every person operating the machine includes the duty of always

- keeping it in a technically perfect condition,
- performing maintenance, according to the intervals specified,
- controlling all safety mechanisms for completeness and functionality on a regular basis.

3.5 Personnel requirements

Fundamentals

Any operation with the machine may only be carried out by the persons, capable of performing their work properly and reliably and meet every requirement mentioned.

- No works can be carried out by the persons, whose response capability is affected, e.g., by drugs, alcohol or medicines.
- When deploying personnel at the site of operation, always adhere to the applicable occupational and age-specific regulations.

Qualification

WARNING:
Risk of injury for unqualified personnel!

Improper operation can result in significant personal and material damage.

- Any operations must be only carried out by the persons having required training, knowledge and experience.

Instructed personnel

Instructed personnel are the persons, who have been instructed by the operator on the tasks to be carried out and potential dangers in a detailed and verifiable way.

Specialist personnel

Specialist personnel are the persons, who, due to their professional training, knowledge and experience, as well as knowledge of the relevant provisions, are capable of duly carrying out the works assigned, recognise potential dangers independently and avoid personal and material damage.

Qualified electricians

As a matter of principle, all works on the electrical installations must be carried out by qualified electricians.

Qualified electricians are the persons, who, due to their specialist training, knowledge and experience, as well as knowledge of the relevant provisions, are capable of duly carrying out the works on electrical systems, recognising potential dangers independently and avoiding personal and material damage caused by electric current.

Unauthorised persons

WARNING:
Danger of injuries for unauthorised persons!

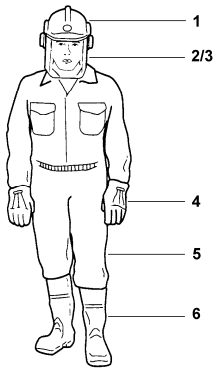
Those who have not been instructed are not aware of the dangers in the area of operation and must be considered unauthorised persons.

- Keep unauthorised persons away from the area of operation; if in doubt, address the persons met and banish them from the area of operation.
- Suspend operations until unauthorised persons leave the area of operation.

3.6 Personal protective equipment

Wearing personal protective equipment is required during the work.

(1) Helmet with ear protectors
(2) Visor or protective goggles
(3) Dust mask / respirator
(4) Safety gloves
(5) Suitable protective clothing
(6) Protective footwear with protection



NOTE!
It is prohibited to wear protective gloves near rotating parts, which pose the danger of pinching. Here, danger created by wearing protective definitely surpasses the intended protection.

3.7 Dangers

The machine has undergone a risk review. Wherever possible, the identified dangers were eliminated and risks reduced. Nevertheless, the machine poses residual risks described in the following section.

- Strictly observe warnings and safety instructions specified here and in the chapters about handling to avoid potential damage to health and dangerous situations.

3.7.1 Risks through mechanical hazards

Rotating tools

CAUTION!
Risk of cut injuries!

Reaching into rotating tools may lead to heavy injuries.

- Do not touch rotating cutting wheels in any circumstances
- Never work without cutting wheel guard.
- Only work with cutting wheel guard closed
- Only remove clippings with cutting wheel stopped.

Flying clippings / tool

CAUTION!
Risk of injury by flying clippings or tool parts!

Failure to wear appropriate protective equipment, working with open cutting wheel guard or with inappropriate cutting wheels may lead to heavy injuries.

- Wear protective goggles
- Only work with cutting wheel guard closed
- Only work with cutting wheels, specifically designed for the material to be cut

Movable parts

CAUTION!
Risk of injury by pinching in movable parts!

Failure to wear appropriate protective equipment may lead to heavy injuries.

- Wear protective gloves
- Lock the cutter head
- Lock the guiding bridge

3.7.2 Risks through electrical hazards

Electric current

DANGER!
Danger to life from electric current!

Touching live parts leads to death. Damaged insulation or individual components can be life-threatening.

- Disconnect the machine from the power supply before any work on the electric system. Verify that the system is disconnected from power supply.
- Switch off power supply before maintenance, cleaning and repair operations and secure the machine against being restarted.
- If the power supply insulation is damaged, switch off immediately and arrange for repairs.
- Never bypass or disable fuses.
- Always use fuses with correct amperage when replacing defective fuses.
- Keep moisture away from live parts.
- Any works on the electrical installations must be carried out by qualified electricians.

3.7.3 Risks through thermal hazards

Hot surfaces

CAUTION!
Risk of burns on hot surfaces.

Contact with hot parts may cause burns.

- Do not touch the surface.
- Before every work, make sure that the parts have cooled down to the ambient temperature.

3.7.4 Risks posed by special physical effects

CAUTION!
Danger of injuries caused by special physical effects

Failure to wear appropriate protective equipment may lead to heavy injuries.

- Wear ear protectors
- Wear protective gloves
- Take adequate breaks
- Regular medical examinations ‘G20‘

3.7.5 Risks due to hazardous substances

CAUTION!
Risk of injury by hazardous substances, such as dust and cutting water or slurry!

Failure to wear appropriate protective equipment may lead to damage to health.

- Use personal protective equipment
- Renew the cutting water regularly
- Use the dust mask
- Connect water supply

3.7.6 Risks due to work environment conditions

CAUTION!
Risk of injury due to inadequate lighting.

Work in inadequate lighting conditions may lead to heavy injuries.

- Provide for adequate lighting at the workplace.

3.7.7 Risks due radiation hazards

CAUTION!
Risk of injury due optical radiation.

Looking directly into the laser beam may lead to damage to health.

- Do not look directly into the laser beam

3.8 Safety devices

WARNING:
Danger to life due to defective or bypassed safety devices!

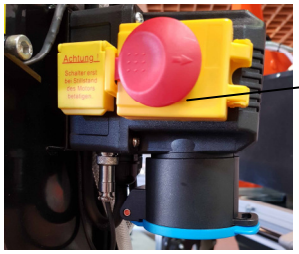
Inoperable, bypassed or disabled safety devices do not protect from hazards and may lead to heavy or fatal injuries.

- Before commencement of works, always make sure that all safety devices are properly installed and functional.
- Never disable safety devices.
- Ensure that the safety devices are always freely accessible.

NOTE!
See safety devices in → "Design and function".

Emergency stop switch

By pressing the emergency stop switch the machine is switched off (voltage free). Power supply is retained up to the switch. De-energize the machine by pulling out the mains plug.
After an emergency stop and before switching on again eliminate the error that has occurred.



3.9 Spare parts

WARNING:
Risk of injury due to wrong spare parts.

Wrong spare parts can seriously compromise safety and cause damage and malfunction up to total failure.

- As a matter of principle, only original spare parts must be used.

Original spare parts can be obtained via an authorised dealer or directly from the manufacturer.

3.10 Actions in emergency and in case of accidents

Necessary actions

- Always be prepared for accidents or fire.
- First aid facilities (first aid box, cloth, etc.) and fire extinguisher must be close at hand.
- Personnel must familiarise themselves with accident signalling equipment, first aid and rescue facilities.
- Access roads for rescue vehicles must be always kept free.

If the need arises, act properly

- Activate emergency stop immediately
- Initiate first aid measures
- Remove persons affected from the danger area.
- Inform persons responsible at the operation site.
- Alert doctor and/or fire brigade in case of heavy injuries.
- Keep access roads for rescue vehicles free.

3.11 Signage

Danger from electric current!

DANGER!
Danger to life from electric current!

Touching live parts leads to death. Damaged insulation or individual parts can be life-threatening.

- Disconnect the machine from the power supply before any work on the electric system. Check that no voltage is present!
- Switch off power supply before maintenance, cleaning and repair operations and secure the machine against being restarted.
- If the power supply insulation is damaged, switch off immediately and arrange for repairs.
- Never bypass or disable fuses.
- Always use fuses with correct amperage when replacing defective fuses.
- Keep moisture away from live parts.
- Any works on the electrical installations must be carried out by qualified electricians.
- Annual check of the electric system according to VDE0701.

Danger of cutting damage

CAUTION!
Risk of cut injuries!

Reaching into moving tools may lead to heavy injuries.

- Do not touch rotating cutting wheels in any circumstances
- De-energise the machine before replacing the cutting wheel

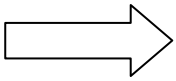
Illegible signs

CAUTION!
Risk of injury due to illegible symbols!

Stickers and signs that got illegible, make danger zones insufficiently recognisable and may become incapable of indicating potential injury risks.

- Always maintain legibility of pictograms, safety, warning and operating instructions.
- Immediately replace the pictograms, labels, signs or stickers that became illegible.

There are the following symbols and information signs on the machine that refer to potential dangers:

	Warning of rotating tool!	
	Running direction of the saw blade	
	Wear gloves Wear ear protectors The machine meets EU guideline Observe the operating manual Wear protective goggles	
 	Laser class:II Wavelength: 635nm Attention! do not stare into laser beam	

4 Technical data

4.1 Dimensions of the machine

Specification	Value	Unit
Length	1640	mm
Width	540	mm
Height	1299	mm
Empty weight	72	kg
Operating weight	95	kg

4.2 Dimensions of the cut piece

Specification	Value	Unit
max. length	1300	mm
max. width	600	mm
max. height	50	mm
max. weight	10	kg

4.3 Connection and motor values

Specification	Value	Unit
Rated voltage	230	V
Rated frequency	50	Hz
Capacity	1,3	kW
Required fuse	16	A
Cutting shaft rotation speed	2800	U/min
Motor protection class	IP55	
Motor duty type	S6	

4.4 Other data

Specification	Value	Unit
Water tank	20	l
Cutting wheel	250	mm
Bore	25,4	mm
Flange Ø		
EU	64	mm
Outside EU	115	mm
Vibration level	2,3	m/s^2

Measuring tolerance		
Vibration level	0,2	m/sec^2

4.5 Water pump

Specification	Value	Unit
Rated voltage	230	V
Rated frequency	50	Hz
Capacity	55	W
Duty type	S2	

4.6 Laser

Specification	Value	Unit
Capacity	1	mW
Rated current, max.	50	mA
Rated voltage	3-6	V DC
Wavelength	635	nm
Pulse duration	continuous	
Class	II	
Protection class	III	

4.7 Noise emission

	Without load	Full load
Sound pressure level	73 dB (A)	89 dB (A)
Sound power level	75 dB (A)	91 dB (A)

Measuring tolerance	
Sound pressure level	4 dB (A)
Sound power level	2,5 dB (A)

Guaranteed sound power level	85 dB (A)

The data define the sound level of the noise exposure at the workplace of the operator and sound power level of the machine tool.

The emission values meet standards EN ISO 3744, EN 12418 and Directive 2005/88/EC.

4.8 Operating conditions

Working zone

Specification	Value	Unit
Temperature range	Ambient temperature 5-45	°C
Relative air humidity, maximum	60 (without condensing)	%
Conditions	Only operate the machine tool in the dust-free environment! Avoid direct impact of dampness, dust and frost. Do not operate in strong electric and magnetic fields! Do not operate the machine tool in explosive atmosphere!	

4.9 Cutting wheels

Cutting wheel	Cutting wheel diameter	Material	Number of segments
SF20	Ø 250 mm	Tile, ceramic, stoneware, natural and artificial stone, thin granite	5 mm
SLF10		Tile, ceramic, stoneware, thin granite, marble	10 mm
SlimFast		Ceramic, Tile, stoneware, Granit, marble	7,5 mm

DANGER!
Risk of injury by defective or incorrectly mounted cutting wheels!

Wrong rotation direction and damaged cutting wheels may cause injuries of personnel!

- Check cutting wheels for broken off segments and segment pieces, segment foot cracks, cutting wheel deformations or signs of wear before starting work.
- Pay attention to the rotation direction arrows on the cutting wheel and guard!

DANGER!
Risk of injury by unchecked or unapproved tool!

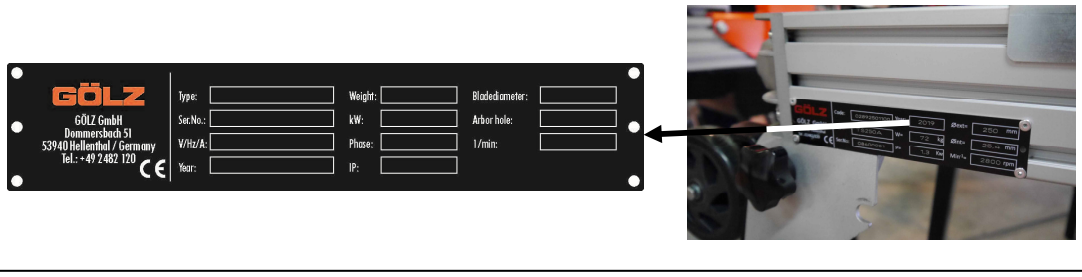
Cutting wheels or buzz saw blades that have not been checked or approved may cause injuries of personnel!

- Before starting work, check whether a proper cutting wheel is mounted.
- Pay attention to the rotation direction arrows on the cutting wheel and guard!

NOTE!
All cutting wheels used must be designed in terms of their permissible max. cutting speed to match the max. drive speed and intended application of the machine tool.

4.10 Type plate

The type plate is located on the base frame of the machine tool.



4.11 Installation site requirements

The floor surface must:

- have sufficient load bearing capacity,
- be slip proof,
- be level.

Installation conditions

- Choose the installation site as per space requirements according to the technical data.

NOTE!
The machine is designed for use in daylight. In case of work zones with poor or no lighting, ensure sufficient lighting of the workplace.

4.12 Storage requirements

Storage conditions

As a matter of principle, the machine, its components, assemblies or parts must be only stored in the following conditions:

- do not store outdoors
- store in dry and dust-free place
- do not expose to aggressive media
- protect from solar radiation
- avoid mechanical vibrations
- storage temperature range 5 to 45°C
- relative air humidity, max. 60%

In case of storage for over 3 months, check general condition of all parts and packaging on a regular basis. If necessary, renew or replace conservation materials

5 Design and function

The machine consists of the base frame with pivotable main pillars and includes built-in systems, motor, cutting table, cutting wheel hood with a cutting wheel, and water tank with water pump.

5.1 Scope of delivery and responsibility

The machine was developed and manufactured under sole responsibility of Gölz GmbH.

Upon transfer to the operator, the responsibility for safe handling and instruction of the personnel passes to the operator.

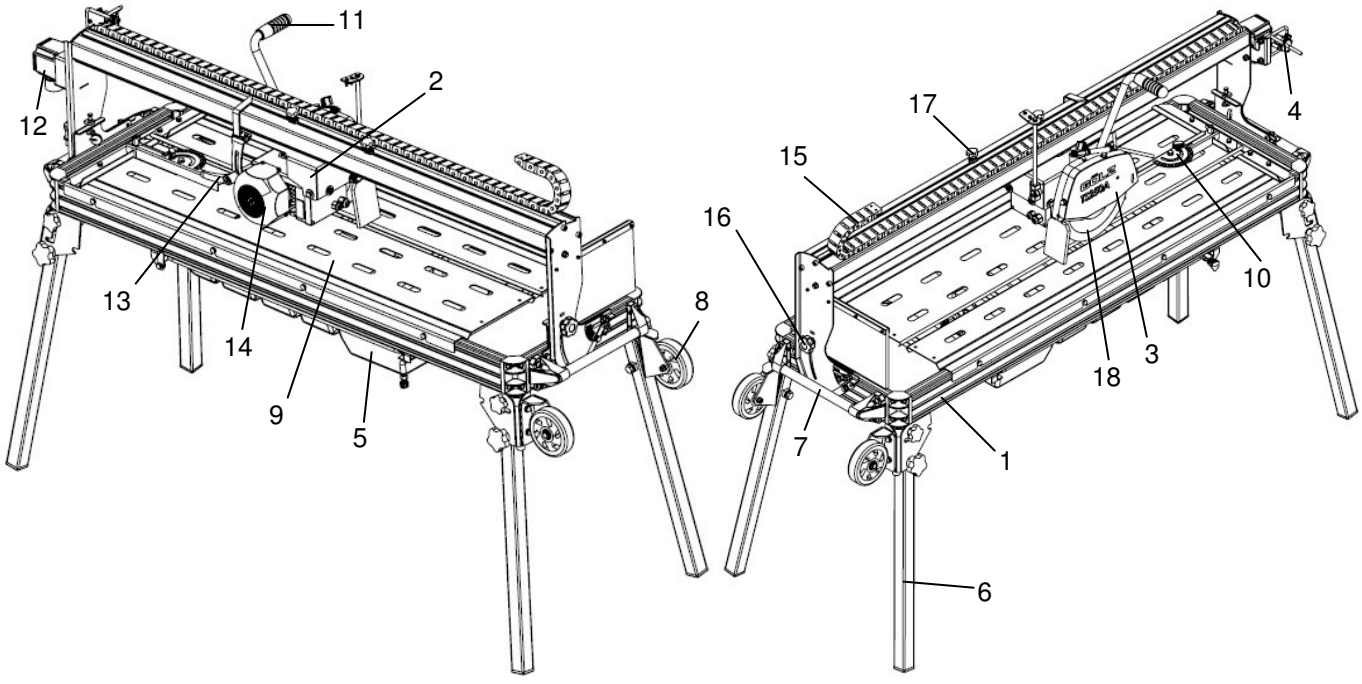
The manufacturer offers training on the machine.

The scope of delivery includes the following components:

Components	Quantity
Tile cutting machine TS250A	1
Technical documentation	1

Optional accessory	Quantity
Lateral extension	1
T-Lock tile clamp	1
Long guider 1m	1

5.2 TS250A



1	Base frame	7	Transport handle	13	Adjusting handle
2	Cutter head	8	Transport wheels	14	Motor
3	Blade guard	9	Cutting table	15	Cable protector
4	Laser	10	Back square	16	Adjusting angle grip knob
5	Water tank	11	Cutter head handle	17	Transport lock
6	Main pillars	12	Plug / switch	18	Cutting wheel

Base frame

The base frame (1) is a sturdy aluminium construction.

Cutter head

The cutter head (2) is a welded steel structure; the motor (14) and the blade guard (3) are fixed to its bridge. It can be continuously pivoted 45° (Jolly) using the angle adjustment (16) and thus allows mitre cuts.
The cutter head can be fixed with a transport lock (17). The cutter head can easily be moved with the cutter head handle (11).

Blade guard

The blade guard (3) protects from contact with the blade (18) and dangerous ejected parts. It must be always in place during operation! The blade guard can be opened to replace the blade. The rotation direction of the blade is shown on the hood by an arrow.

Cutting table

The cutting table (9) is an extraordinarily stable support table. Large openings enable water draining back to the water tank (5). The cutting table can be easily removed for cleaning.

Cooling water supply

An electric water pump in the water tank (5) serves for cooling water supply and pumps the cooling water from the water tank to the cutting wheel (18). Sufficient water feed extends service life of the cutting wheel and dust suppression. Water feed can be regulated by a water tap on the cutting wheel guard. The water pump may never run dry. The water tank can be emptied by a drain plug.

Electric motor with start and stop switches

Electric motor 1,3kW with integrated start and stop switches.
Push the green start switch to start the machine.
The electric motor has an undervoltage release which prevents the motor from restarting after a power failure.
After pushing the stop switch, the machine immediately switches off the motor and stops.

Laser

The laser (4) is electrically connected with the e-motor, switch/plug combination (11) and switches on as soon as the e-motor is running. The laser is attached at the beginning of the guiding rail and shows the exact course of the cut.

NOTE!
After the machine is switched on, the cutting wheel starts rotating immediately!

NOTE!
The table's maximum load weight remains unchanged when using an extension table.

5.2.1 Functional description

The tile cutting machine is designed exclusively for cutting construction materials in the sizes provided in ->Technical data.

The operating personnel responsible manually place products onto the machine.

The cutter head is set to the desired cutting depth by the cutter head handle and locking lever.

By pressing the main switch, the electric motor and the laser of the machine is started and the cutting wheel starts turning immediately. The water supply is automatically switched on when the machine is started with the main switch.

Water feed can be regulated by a water tap on the cutting wheel guard.

The cutter head handle serves to manually regulate the drive speed when the cutter head's rotating blade is being pulled through the material to be cut.
The cutting process is finished when the material is cut through and the cutter head's stop point is reached. Then switch off the motor, remove the cut material and replace the cutter head in its starting position.

6 Transport & packaging

6.1 Transport safety information

ATTENTION!
Damage through improper transportation!

Improper transportation can result in considerable damage of the transported goods and objects in the vicinity.

- Always act with utmost caution and care when loading and unloading transported goods.
- Pay attention to instructions and symbols on the packaging.
- Never remove transport locks earlier than before assembly.

6.2 Transport inspection

Inspect the condition of the transported goods immediately upon delivery for completeness and damage.

In the event of externally recognisable damages:

- ▶ do not accept the delivery or accept it only conditionally,
- ▶ record the scope of the damage in the transport documents and indicate it in the carrier's consignment note,
- ▶ lodge complaint.

NOTE!
Claim any defect immediately upon delivery of the transported goods!
Claims regarding transport damage can only be lodged within valid complaint periods.

6.3 Transport symbols

On the outside of the transported goods, there are symbols corresponding to the content, which must be strictly observed during transportation and storage.

Meaning of the transport symbols

The following transport symbols can be placed on the transported goods:

	**This side up** The arrowheads indicate the top end of the transported goods. These should point upwards otherwise the content can be damaged.		**Keep dry** Protect the transported goods from dampness and keep them dry.
	**Anchor point** Only attach lifting tackle to the indicated points.		**Centre of gravity** Indicates the centre of gravity of the transported goods. Pay attention to the centre of gravity position when handling the goods!

6.4 Transport and storage

Handling packaging

The machine is packed in a safe and environmentally sound manner for the anticipated transport conditions. The packaging protects the parts up to the beginning of assembly from damage and corrosion.

- ▶ Only remove packaging and transport locks before assembly.
- ▶ Dispose of packaging materials according to applicable local regulations.

ATTENTION!
Environmental damage through improper disposal!

Packaging material is valuable raw material and can be used again or expediently reprocessed and recycled.

- Always dispose of packaging materials in an environmentally sound manner.
- Follow local regulations. If necessary, employ a specialised company for waste disposal.

Transport of the machine

ATTENTION!
Damage through improper transportation!

Improper transportation can result in considerable damage of the machine and objects in the vicinity.

Before every transport:

- the cutting table must be secured by the table lock
- the cutter head must be lowered and locked
- the machine must be disconnected from power supply

Due to two transport rollers, the machine can be transported by one or two persons who can use transport handles.

NOTE!
The machine is not designed for crane transport. There are no appropriate load suspension points on the machine.

Storage of the machine

Store the machine in the following conditions:

- ▶ indoors only,
- ▶ store in dry and dust-free place,
- ▶ do not expose to aggressive media,

- protect from solar radiation,
- avoid mechanical vibrations,
- storage temperature: 5 to 45 °C,
- relative air humidity: max. 60%.
- In case of storage for over 3 months, check general condition of all parts and packaging on a regular basis. If necessary, renew or replace conservation materials.

NOTE!
Store cutting wheels only vertically or suspended!
Protect from humidity!

7 Installation and first commissioning

7.1 Installation safety information

WARNING!
Risk of injury due to improper installation!

Improper work performance and installation errors can result in heavy injuries during work and life-threatening situations during commissioning and operation.

- Any installation works must be only carried out by trained personnel authorised by the operator.
- Sufficient assembly freedom must be ensured before commencement of works.
- Always keep the working zone tidy and clean!

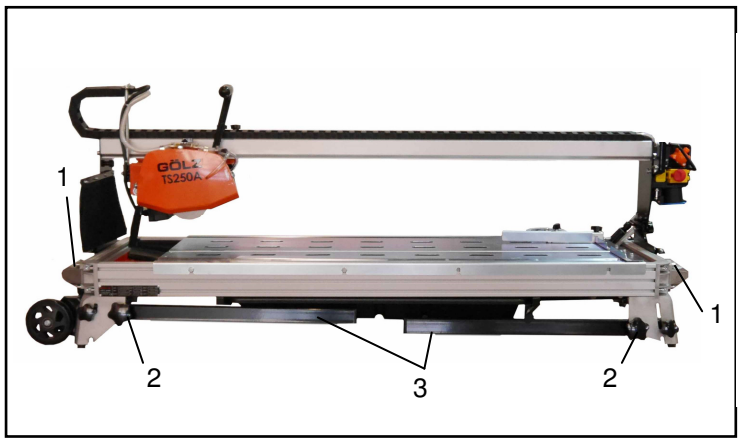
DANGER!
Danger to life from electric current!

Touching live parts leads to death. Damaged insulation or individual parts can be life-threatening.

- Connection, inspection and measurements of electric parts must be carried out by qualified electricians.
- In case of defective electric components switch off immediately and arrange for repairs.
- Keep humidity away from live parts.

7.2 Location

Find a suitable location to place the machine. Check secure footing before commissioning.
Make sure that the cutting table is fixed by the transport lock.



- ▶ Loosen the star grip screws (2) and raise the machine by transport handles (1)
- ▶ Fold and unfold main pillars (3) and make sure that the main pillars snap into place.
- ▶ To secure them, tighten firmly the star grip screws (2) again.

Personal protective equipment

- ▶ Protective clothing
- ▶ Protective gloves
- ▶ Safety shoes

7.3 Connection

Before connecting the machine to the power source, make sure that:

- voltage / phase of the power supply, match the date on the type plate of the motor and machine
- the power supply line is grounded according to the safety provisions
- the wire size of the extension cord is sufficient, H07RNF 3x2.5 mm² up to 50m for 230V

NOTE!
Power losses may occur if the cord length >50m!

Personal protective equipment

- Protective clothing
- Protective gloves
- Safety shoes
- Ear protectors
- Protective goggles

7.4 First commissioning and acceptance, general

DANGER!
Risk of injury during the first commissioning or adjustment works. Therefore:

- Before starting work, disable the machine and secure the machine against being restarted. Affix warning signs!
- Make sure that the machine is not placed on slopes or construction pits
- Make sure the surface is even
- Ensure sufficient lighting
- Keep environment clean and free from objects and cables
- Make sure, there are no unauthorised persons in the vicinity of the machine

The machine is delivered fully assembled. However, the blade and the back square will have to be mounted. The main pillars must be unfolded.

7.4.1 Steps before commissioning

7.4.1.1 Mounting a cutting wheel

To mount a new cutting wheel or replace the used one, proceed as follows:

1. Switch off the machine and interrupt the power supply by pulling the mains cable from the mains outlet
2. Loosen the screws on the cutting wheel guard so as to be able to remove the front half of the cutting wheel guard

3. Loosen the nut of the motor shaft and remove the outer cutter flange
4. Clean the cutter flange, nut and motor shaft
5. Check the parts for signs of wear
6. Mount or replace the cutting wheel. While doing so, pay attention to the correct rotation direction of the cutting wheel and motor shaft

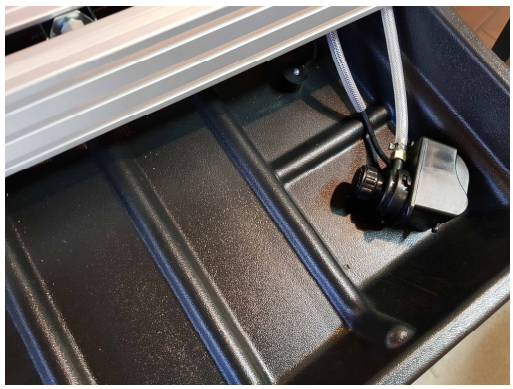
NOTE!
The arrow on the cutting wheel indicates correct rotation direction.

7. Replace the outer cutter flange on the motor shaft
8. Screw the nut onto the motor shaft again and tighten it firmly
9. Replace the front half of the cutting wheel guard to connect it with the rear half
10. Tighten firmly the screws on the cutting wheel guard

NOTE!
The cutting wheel, irrespective of its position or the position of the cutter head, may not touch the table!

7.4.1.2 Fill the water tank

The water tank must be filled before the machine is started. Use clear, clean water for this.



ATTENTION!
The water pump may not run without water, otherwise it can be damaged.

NOTE!
Pay attention to the remaining level of cooling and rinsing water, as well as cutting mud.
These must be appropriately collected, filtered and disposed of.

8 Operation

8.1 Operation safety information

WARNING!
Risk of injury due to improper operation!

Improper operation may lead to heavy injuries.

- The machine may only be operated by trained personnel authorised by the operator.
- Before every work, make sure that the safety devices are correctly installed and function without flaws.
- Never disable safety devices.
- Always keep the working zone tidy and clean! Objects, parts, workpieces, tools and cleaning devices loosely lying around are accident sources.

DANGER!
Danger to life from electric current!

Touching live parts leads to death. Damaged insulation or individual parts can be life-threatening.

- In case of defective electric components switch off immediately and arrange for repairs.
- Keep humidity away from live parts.

Personnel

- Instructed personnel

Personal protective equipment

- Protective clothing
- Protective gloves
- Safety shoes
- Ear protectors
- Protective goggles

8.2 Intended working position of the operator

The operator takes position in front of the machine near the emergency stop button and the handle to be able to slide the cutter head with the handle and to press the emergency stop button at any time.

8.3 Start-up preparation

To safely use the machine as intended, the following preconditions must be met:

- the machine stands firmly
- the water tank is filled with clean, clear water
- the machine has been checked for damage, loose screw connections and integrity
- the water supply is functional
- rotation direction arrows on the cutting wheel and guard match
- an appropriate cutting wheel must be installed, which meets optimum conditions

8.4 Start-up

The machine is switched on by the main switch. For this purpose, open the emergency stop functional flap and press the green button.

NOTE!
After the start, check the following:

- The cooling water must be pumped to the cutting wheel by the water pump in the sufficient quantities and drain off on both sides.

If this is not the case, stop the machine immediately!

The motor is equipped with thermal insulation activated when the temperature rises too high.

Wait approx. 30 minutes before restarting the machine until the motor cools down.

8.5 Cutting operation

8.5.1 Normal cutting in 90° position

When cutting in 90° position, the cutter head remains at a fixed point.

For adjustment, proceed as follows:

1. Switch off the machine -> the cutting wheel must stop rotating!
2. Loosen the adjusting screw.
3. Set the cutter head in the desired position.

NOTE!
The cutting wheel, irrespective of its position or the position of the cutter head, may not touch the table!

4. Tighten the adjusting screw -> check if the cutter head is adjusted in height and make sure that it cannot move.

5. Put the material to be cut onto the table.
6. Check the position of the material using the angle stop.
7. Start the motor and the water pump and open the water tap.
8. Put one hand on the cutter head handle.
9. Then slowly drag the cutter head without pressure over the material on the table. The blade cuts the material.

8.5.2 Cutting method: 45° bevel cuts

The machine offers the possibility of performing 45° bevel cuts.

To perform 45° bevel cuts, proceed as follows:

1. Switch off the machine -> the cutting wheel must stop rotating!
2. Loosen the star grip screws on the bridge on both sides of the machine.
3. Pivot the complete cutter head including the bridge into the desired position. Orientate yourselves on the lateral scale.
4. Tighten again the star grip screws.
5. Then loosen the adjusting screw.
6. Adjust the depth stop and fix this setting.

NOTE!
The cutting wheel, irrespective of its position or the position of the cutter head, may touch neither the table, nor the back square!

7. Put the material to be cut on the table. Check the material's position using the angle stop.
8. Start the motor and the water pump and open the water tap.
9. Put one hand on the cutter head handle.
10. Then slowly drag the cutter head without pressure over the material on the table. The blade cuts the material.

To bring the cutter head after this cutting procedure back to 90° position, proceed as follows:

1. Switch off the machine -> the cutting wheel must stop rotating!
2. Loosen the star grip screws on the bridge on both sides of the machine.
3. Pivot the complete cutter head including the bridge into the desired position. Orientate yourselves on the lateral scale.
4. Firmly tighten again the star grip screws.

NOTE!
Hold firmly the cutter head with the hand in the 90° position. Tightening the nut can turn the square back so that the angle of the cutter head is not exactly 90°.

NOTE!
The cutting wheel, irrespective of its position or the position of the cutter head, may not touch the cutting table!

8.5.3 Water supply

Heavily polluted water decreases the service life of the water pump and cutting wheel.

- For frequent use, change water several times a day, and collect, filter and dispose of the cutting mud

- Clean the suction strainer of the water pump every time the water is changed

8.6 Stop cutting operation

Use the red stop switch on the motor to stop the machine.

NOTE!
For construction reasons, the green start switch and the red stop switch are directly positioned on the motor terminal box.
Pull out the mains plug to activate the emergency stop function!

9 Maintenance & cleaning

9.1 Maintenance safety information

WARNING!
Risk of injury due to improper maintenance!

Improper maintenance may lead to injuries.

- Any maintenance works must be only carried out by instructed specialist personnel authorised by the operator.
- Sufficient assembly freedom must be ensured before commencement of works.

DANGER!
Danger to life from electric current!

Touching live parts leads to death. Damaged insulation or individual parts can be life-threatening.

- Switch off the electric system before maintenance and repair operations and secure it against being restarted.
- Keep humidity away from live parts.

WARNING!
Risk of injury due to wrong spare parts.

Wrong spare parts can seriously compromise safety and cause damage and malfunction up to total failure.

- As a matter of principle, only original spare parts must be used.

CAUTION!
Risk of cut injuries!

Reaching into moving tools may lead to heavy injuries.

- Do not touch rotating cutting wheels in any circumstances
- If any works need to be carried out, disconnect the machine from power supply

9.2 Maintenance plan

Maintenance works necessary for optimum and trouble-free operation are described in the following sections.

- ▶ If an increased wear of parts is revealed by regular inspections, reduce the maintenance intervals!
- ▶ Draw up a maintenance log after every maintenance! The log assists in error analysis, enables adjusting the intervals to actual usage conditions and validating guarantee claims.
- ▶ If you have any queries on maintenance works and intervals:
  contact manufacturer.

Interval	Maintenance work	Personnel
Before every commissioning	Visual check - of the entire machine - of the tool holder (flange and blade holder) - of the tool (cutting wheel) - of the control elements (handles, rollers, etc.) - of the water tank and hoses - of the cutter head and cutting table	Bedienpersonal
	Visual check - of the electric system - of the motor - of the water pump	Specialist personnel
	cleaning the tool holder (flange and blade holder)	Operating personnel
	checking the tool (cutting wheel) for replacement necessity	Operating personnel
	cutter head and cutting table - lubrication - greasing - oiling - applying corrosion protection	Operating personnel
After completion of work	Cleaning of - entire machine - control elements (handles, rollers, etc.) - tools (cutting wheel) - cutter head and cutting table	Operating personnel
	draining and cleaning water hoses and tank	Operating personnel
	Cleaning of - Motor housing - Water pump	Specialist personnel
	tool holder (flange and blade holder) - lubrication - greasing - oiling - applying corrosion protection	Operating personnel
weekly	Re-tightening and adjusting - control elements (handles, rollers, etc.) - cutter head and cutting table - threaded joints	Operating personnel
yearly	Safety inspections of - electric systems - motor	Qualified electricians
in case of an error	Visual check - of the entire machine - of the cutter head and cutting table	Operating personnel
	Visual check - water pump	Specialist personnel
	re-tightening and adjusting cutter head and cutting table	Operating personnel
in case of damage	change and replacement - entire machine - tool holder (flange and blade holder) - tools (cutting blade) - control elements (handles, locking rollers, etc.) - water tank and hoses - cutter head and cutting table	Operating personnel
	change and replacement - electric systems - motor - Water pump	Qualified electricians

9.3 Description of the maintenance works to be carried out by the operator

ATTENTION!
Cleaning by a high-pressure cleaner will damage the machine.

ATTENTION!
Foaming and cleaning with water will damage the machine.

ATTENTION!
The cutting wheel may not be cleaned by metal cleaning tools (scraper, metal sponge or similar), otherwise it will be damaged.

9.3.1 Replacing the cutting wheel

The cutting wheel must be replaced if:

- the diamond segments on the cutting wheel are fully worn, damaged or broken out
- varying materials are to be cut
- the cutting wheel does not rotate smoothly

9.3.2 Checking water supply line

Carry out acoustic and visual check for tightness of the connections and hoses after each work.

9.3.3 Water pump and tank

- Remove the polluted water.
- Remove mud deposits from the water tank bottom.
- Remove the water pump and put it into a bucket with clear water.
- Plug in the mains plug and let the machine run for approx. 1-2 minutes.
- Turn the machine off.
- Pull out the plug and insert the water pump again
  -> thus avoiding obstruction of the pump wheel by the mud deposits.

9.4 Steps after completing maintenance

After completion of the maintenance works and before switching on, follow the following steps:

1. Check for tightness all threaded joints previously detached.
2. Check the proper installation of all previously removed protective devices and covers.
3. Make sure that all tools, materials and other equipment have been removed from the working zone.
4. Clean the working zone and remove any spilled substances such as liquids, processing materials or similar.
5. Make sure that all safety devices of the system function properly.

9.5 Parts susceptible to wear

Machine parts susceptible to wear are:

- Rubber spacer
- Rubber strip
- Rubber stop
- Cable protection energy chain
- Splash guard
- Clutch
- Shaft
- Eccentric shaft
- Ball bearing
- Spring
- Bush bearing
- Gaskets
- Handle grip
- Stopple
- Sticker
- Hoses
- Ball valve
- Wheel
- Water pump
- Pump housing with strainer
- Inslated handle sleeve

Wear of these parts does not present any product defect.

NOTE!
Wear parts are highlighted in grey in the spare parts list!

10 Errors

10.1 Troubleshooting safety information

WARNING!
Risk of injury due to improper troubleshooting!

Improper actions in the course of troubleshooting may lead to heavy injuries.

- Any repair works must be only carried out by instructed specialist personnel authorised by the operator.
- Sufficient assembly freedom must be ensured before commencement of works.
- Always keep the working zone tidy and clean! Objects, parts, workpieces, tools and cleaning devices loosely lying around are accident sources.
- Check correct assembly of spare parts if these have been replaced. Fit properly all fastening elements. Observe screw tightening torques.
- Before recommissioning, make sure that all safety devices are properly installed and functional.

WARNING!
Risk of injury resulting from unauthorised restarting!

Personnel working on individual parts can be injured if the machine is restarted unexpectedly.

- Before working on any individual parts, switch off the machine and secure it against being restarted.

DANGER!
Danger to life from electric current!

Touching live parts leads to death. Damaged insulation or individual parts can be life-threatening.

- Switch off the electric system before maintenance and repair operations and secure it against being restarted.
- Keep humidity away from live parts.

10.2 Actions in case of errors

The following basically applies:

1. In case of errors posing an immediate danger for personnel or property, immediately activate the emergency stop.
2. Switch off power supply and secure it against being restarted.
3. Inform persons responsible at the operation site.
4. Depending on error reason type, assign responsible authorised specialist personnel to identify and eliminate it.

10.3 Troubleshooting table

Error message / error	Possible cause	Troubleshooting	Personnel
When switched on, the machine does not start	Mains plug is loose	Check proper connection to mains	Operating personnel
	Mains plug is defective	Check the mains plug for operability, replace if necessary	Qualified electricians
	Loose connection in the electric system	Have the entire electric system of the machine checked	
	The drive motor is defective	Have the drive motor checked, replace if necessary	
	The main switch is defective	Have the main switch checked, replace if necessary.	
The machine does not provide sufficient performance	The mains plug is too long, cord reel is wound up	Observe the prescribed length of the mains plug. Unwind the cable cord	Operating personnel
	Capacity of the local - mains is insufficient	Pay attention to and observe the machine connection data	
	The drive motor does not maintain the rotation speed	Have the drive motor checked, replace if necessary	Qualified electricians
Low or no cooling water feed	The water pump sucks air	Fill the tank with water; swivel the pump with the suction side downwards	Operating personnel
	Hose are clogged	Clean the hoses	
	Hoses bent	Check hose layout	
	A hose is leaky or detached	Replace or re-attach the hose properly	
	The water pump wheel or strainer is polluted	Clean the pump wheel or strainer	
	Water pump does not function	Have the electric supply line checked, replace if necessary	Qualified electricians
Motor does not start	Mains plug is not properly plugged.	Check the mains plug for proper connection	Operating personnel
	A fuse at the construction site - distribution board has tripped	Check fuses	
Cutting blade wobbles	Blade tension is poor	Return the cutting blade	Manufacturer
Segments are coming off	Overheating, cooling is poor	Check cooling water line	Operating personnel
		Segments are soldering on	Manufacturer

Error message / error	Possible cause	Troubleshooting	Personnel
High segment wear!	Segment bonding is too soft	Use cutting wheels with harder segments or reduce feeding pressure	Operating personnel
	Segments are too thin in relation to the motor capacity and feeding pressure	Reduce the feeding pressure, or use cutting - wheels with thicker segments	
	Segment number is too small	Use cutting wheels with segments, or reduce the - feeding pressure	
	The cutting wheel runs out	Use a new cutting wheel, have the old one straightened, check the cutting shaft, use a new one if necessary	
	The cutting wheel deviates	Check the table guides, replace if necessary	
	Abrasive aggregates	Use cutting wheels with harder segments	
	Feeding pressure is too high	Reduce the feeding pressure	
Cutting blade shows side and radial run-out	Cutting blade is bent or damaged	Have the cutting blade straightened, solder the segments to a new blade or use a new blade	Manufacturer
	Flange is polluted or damaged	Clean or replace the flange	Operating personnel
	Motor shaft is bent	Replace the electric motor	Qualified electricians
Zero performance when cutting, cutting blade is blunt	The cutting blade does not match the material	Use a proper cutting blade	Operating personnel
	The cutting blade does not match the machine capacity		
	The cutting blade is too hard		
	Diamond on the segment are blunt	sharpen	Specialist personnel
Suboptimal blade course	Blunt segments	sharpen	Specialist personnel
	Cutting blade is overloaded	Use an appropriate cutting blade	Operating personnel
	Poor tension of cutting blade	Return the cutting blade	Manufacturer
Mounting bore of the cutting blade is worn out	The cutting blade rotates on the motor shaft	Check the mounting flange, replace if necessary	Manufacturer
		The mounting bore must be hollowed out and a ring fitted in	Specialist personnel

Error message / error	Possible cause	Troubleshooting	Personnel
The cutting blade is oxide-coated	The cutting blade is overheating, too little cooling water	Check the cooling water	Operating personnel
	Lateral friction in the cut	Lower the feed rate, pull the material slowly	
Cracks on steel core; eccentrical wear of the cutting blade	The cutting blade is too hard	Use a softer cutting blade	Operating personnel
	Motor shaft bearing	Replace the motor shaft bearing	
Laser does not work	Cable break	Check cable, replace if necessary	Qualified electricians
	Diode burnt through	Replace Laser	

10.4 Steps after troubleshooting

After completion of the troubleshooting and before switching on, follow the following steps:

1. Check for tightness all threaded joints previously detached.
2. Check proper installation of all previously removed protective devices and covers.
3. Make sure that all tools, materials and other equipment have been removed from the working zone.
4. Clean the working zone and remove any spilled substances such as liquids, processing materials or similar.
5. Make sure that all safety devices of the machine function properly.

11 Dismantling and disposal

After the design service life is over, the machine must be dismantled and disposed of in an environmentally sound manner.

11.1 Dismantling and disposal safety information

WARNING!
Risk of injury resulting from improper dismantling!

Improper actions in the course of dismantling may lead to heavy injuries.

- Any dismantling works must be only carried out by instructed specialist personnel authorised by the operator.
- Sufficient assembly freedom must be ensured before commencement of works.
- Always keep the working zone tidy and clean! Objects, parts, workpieces, tools and cleaning devices loosely lying around are accident sources.
- Mind sharp-edged parts, corners and points.
- During dismantling operations, always secure parts so that cannot fall or overturn.
- Dismantle parts properly and in a professional way with consideration of local labour and environmental protection regulations.
- In cases of doubt, contact the manufacturer.

DANGER!
Danger to life from electric current!

Touching live parts leads to death.
Damaged insulation or individual parts can be life-threatening.

- Before dismantling operations, switch off power supply and secure the machine against being restarted.

Personnel

- ▶ Instructed specialist personnel authorised by the operator

11.2 Dismantling

1. Switch off the machine and secure it against being restarted.
2. Physically disconnect the power supply from the unit and discharge stored energy. Check that no voltage and pressure are present.
3. Remove operating and auxiliary materials, and remaining processing materials and dispose of them in accordance with the environmental regulations
4. Clean properly assemblies and parts, and disassemble them with consideration of the applicable local labour and environmental protection regulations.

11.3 Disposal

If no return or disposal agreement was made, send the dismantled components for recycling:

- ▶ scrap metal parts.
- ▶ hand over plastic parts for recycling.
- ▶ dispose of other components assorted according to material characteristics.

EU countries only

Electric waste is recyclable and must not be disposed of in the household waste!!
According to the European directive 2012/19/EU on electrical and electronic waste and version transposed into national law, used power tools must be collected separately and sent for recycling in an environmental-friendly manner.

ATTENTION!
Environmental damage resulting from improper disposal!

Wrong or negligent disposal may result in significant environmental pollution.

- Electrical scrap, electronic components, lubricants, operating and other auxiliary materials must be disposed of by specialised companies.
- In case of hazardous substances, treatment and disposal provisions of the material safety data sheets must be taken into consideration.
- In case of doubts, consult the manufacturer or local municipal authorities or specialised disposal companies on the environmentally safe ways of disposal.

12 Spare parts list

12.1 Using the spare parts list

The spare parts list is not a mounting or dismounting instruction. The only purpose of the spare parts list is to easily and quickly find spare parts which can be ordered with distribution agencies.

DANGER!
Risk of injury when mounting or dismantling assemblies!

Use of the spare part lists for mounting or dismantling may result in grave personal damage or death!

- During mounting or dismantling operations, relevant descriptions of the operating manual must exclusively be followed.

12.2 Distribution agencies

Deutschland - Germany - Allemagne - Duitsland
GÖLZ® GmbH
Dommersbach 51
DE-53940 Hellenthal
Tel: +49 (0)2482-12 200
Fax: +49 (0)2482-12 222
E-Mail: info@goelz.de / Internet: www.goelz.de

Österreich - Austria - Autriche - Oostenrijk
GÖLZ® Ges.m.b.H
Samstraße 52
A-5020 Salzburg
Tel: +43 (0) 662 - 43 81 75
Fax: +43 (0) 662 - 43 07 34
E-Mail: info@goelz.at / Internet: www.goelz.at

Frankreich - France - France - Frankrijk
GÖLZ® S.A.S.
1, rue de la Mairie
F-67370 Berstett
Tel: +33 (0)3.88.59.43.00
Fax: +33 (0)3.88.59.47.77
E-Mail: info@golz.fr / Internet: www.golz.fr

Großbritannien - Great Britain - Grande-Bretagne - Groot-Brittannië
GÖLZ® (UK) Ltd.
Unit A5, Springhead, Enterprise Park
Northfleet
Kent DA11 8HB
Tel: +44 1 474321679
Fax: +44 1 474321477
E-Mail: info@goelz.co.uk / Internet: www.goelz.co.uk

Benelux
GÖLZ® Benelux
Eupener Straße 61
BE-4731 Raeren-Eynatten
Tel: +49 (0)2482-12 200
Fax: +49 (0)2482-12 222
E-Mail: benelux@goelz.de / Internet: www.goelz-online.com

Australien - Australia - Australie - Australië
GOLZ® Pty Ltd.
44 Stanley Street
Peakhurst, NSW 2210
Tel: +61 (0) 2 9534 5599
Fax: +61 (0) 2 9534 5588
E-mail: info@golz.com.au / Internet: www.golz.com.au

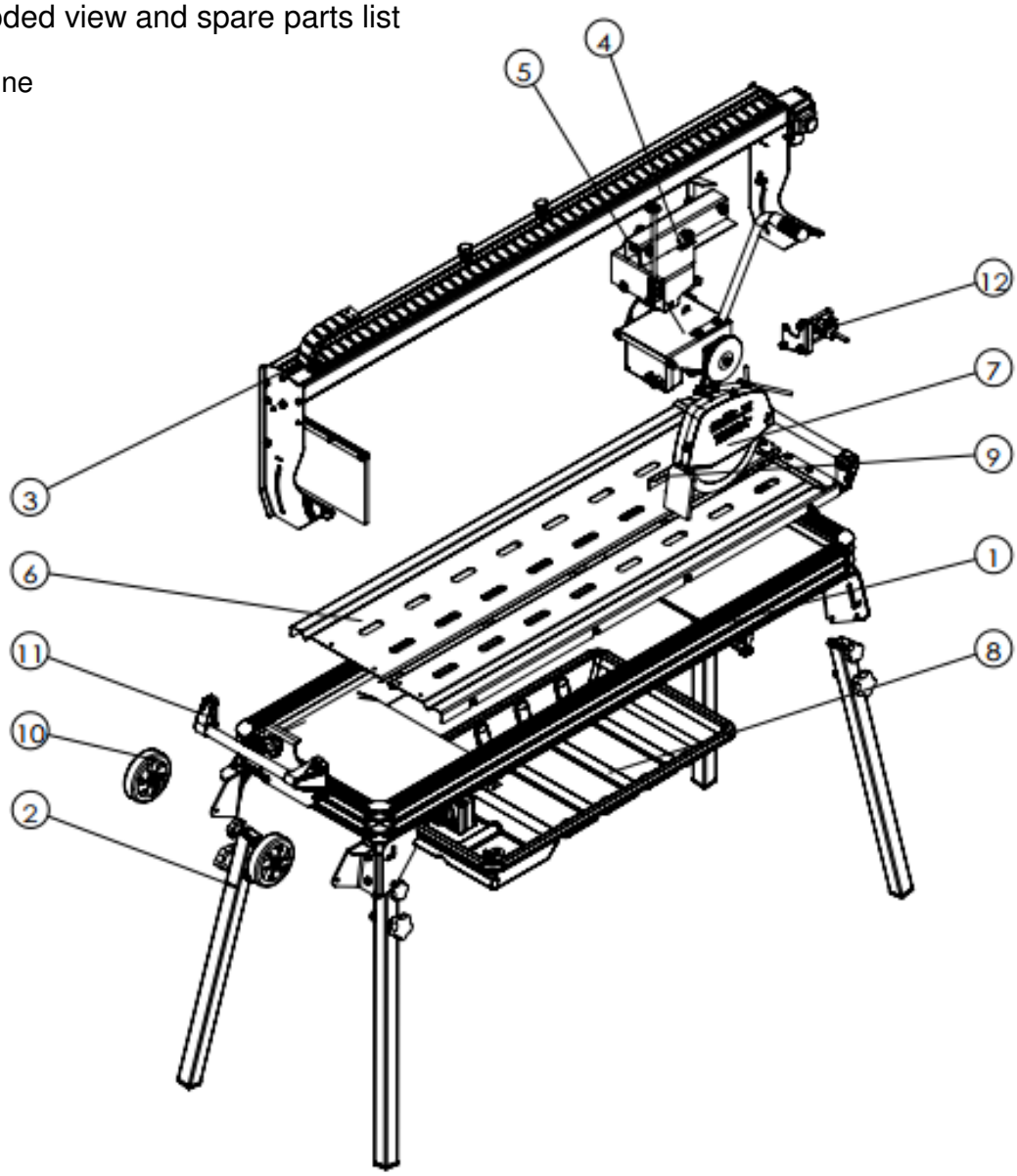
USA
GOLZ® L.L.C.
5860 East Osage Ridge Lane
Columbia MO 65203-6018
Tel: +1 573 474 4961
E-Mail: info@golzusa.com / Internet: www.goelz-online.com

Note!
In order to avoid wrong deliveries the information the ordering information should be checked for accuracy and completeness before sending it! Completely indicate the delivery address!

So bekommen Sie schnell und richtig Ihr Ersatzteil	**Always indicate**	**Pour obtenir rapidement les pièces de rechange indiquer**
• Maschinentyp gemäß Typenschild • Baujahr gemäß Typenschild • Artikelnummer gemäß Ersatzteilliste • Maschinennummer gemäß Typenschild	• machine type according to nameplate • year of manufacture according to nameplate • order number according to spare part list • serial number according to nameplate	• type de la machine conforme de plaque d'identification • Année de construction selon plaque d'identification • Numéro de l'article selon la liste des pièces de rechange • numéro de la machine suivant plaque d'identification
Für Bestellungen, Fragen und Informationen wenden Sie sich bitte an die zuständigen Stellen.	For orders, questions and information, please contact the competent departments.	Pour les commandes, questions et informations, veuillez-vous adresser aux points de ventes correspondants.

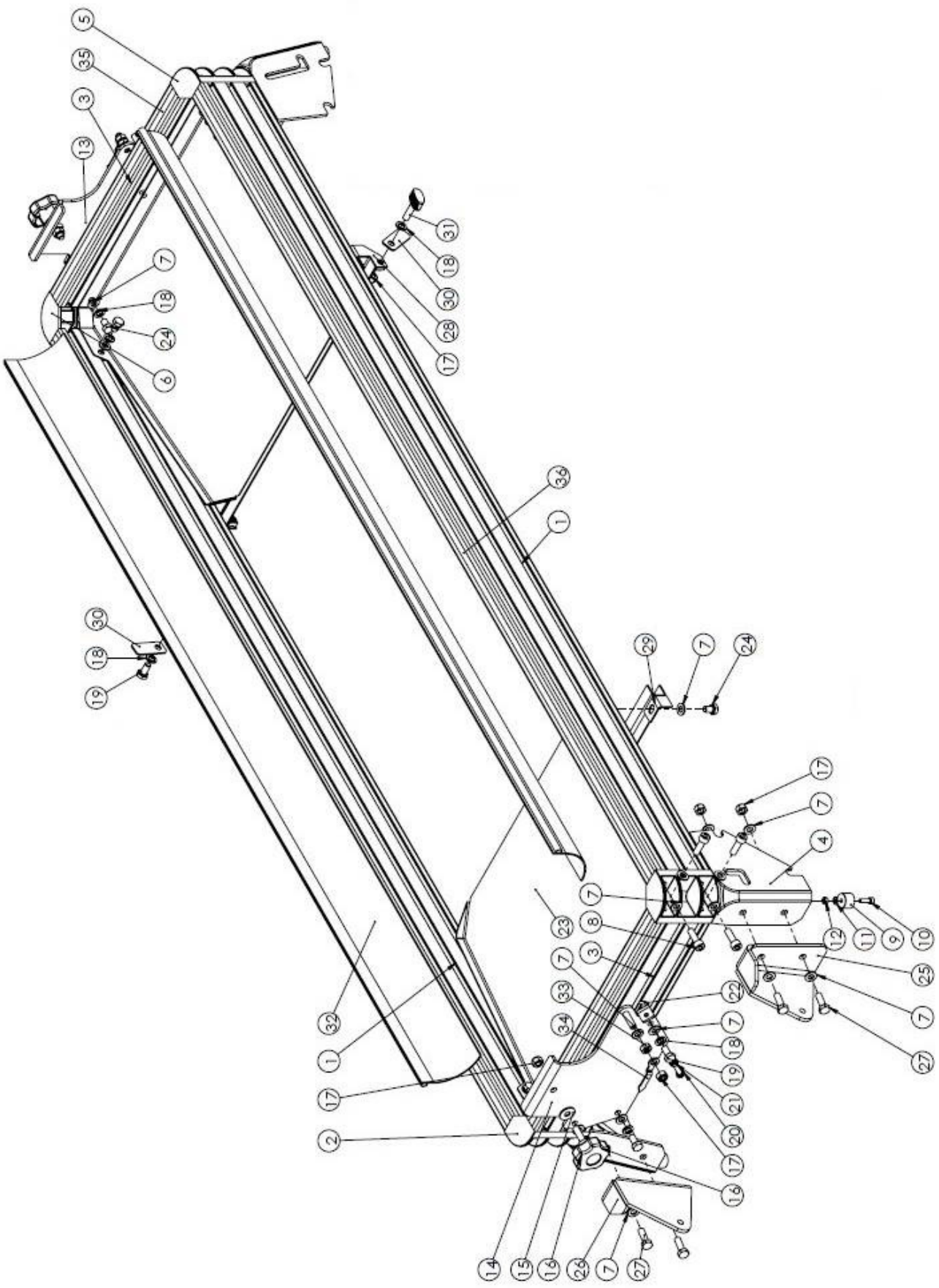
12.3 Exploded view and spare parts list

12.3.1 Machine



Pos.	Art.-Nr.	Qty.	Norm / Info	Content	Bezeichnung	Description	Désignation
1	-	1			Rahmen kpl.	Main frame assembly	Châssis complète
2	**0282 400 9009**	4			Standbein kpl.	Main pillar complete	Jambe de pivot complète
3	-	1			Führungsbrücke kpl.	Guiding bridge cpl.	Pont de guidage complet.
4	-	1			Motor Aufnahme	Motor Support	Support moteur
5	-	1			Schneidkopf kpl.	Cutter head complete	Tête de coupe complète
6a	-	1	Stahl		Schnittguttisch kpl.	Cutting table complete	Table de travail complète
6b	-	1	Aluminium				
7	-	1			Schutzhaube kpl.	Blade guard complete	Capot protecteur complète
8	-	1			Wasserwanne kpl.	Water tank complete	Bac à eau complet
9	**0289 200 9013**	1			Anschlagwinkel kpl.	Back square complete	Équerre complète
10	**0289 400 9026**	2			Transporträder kpl.	Transport wheel complete	Roue de transport complète
11	-	2			Transportgriff kpl.	Transport handle complete	Poignée de transport complète
12	-	1			Laser kpl.	Laser complete	Laser complet

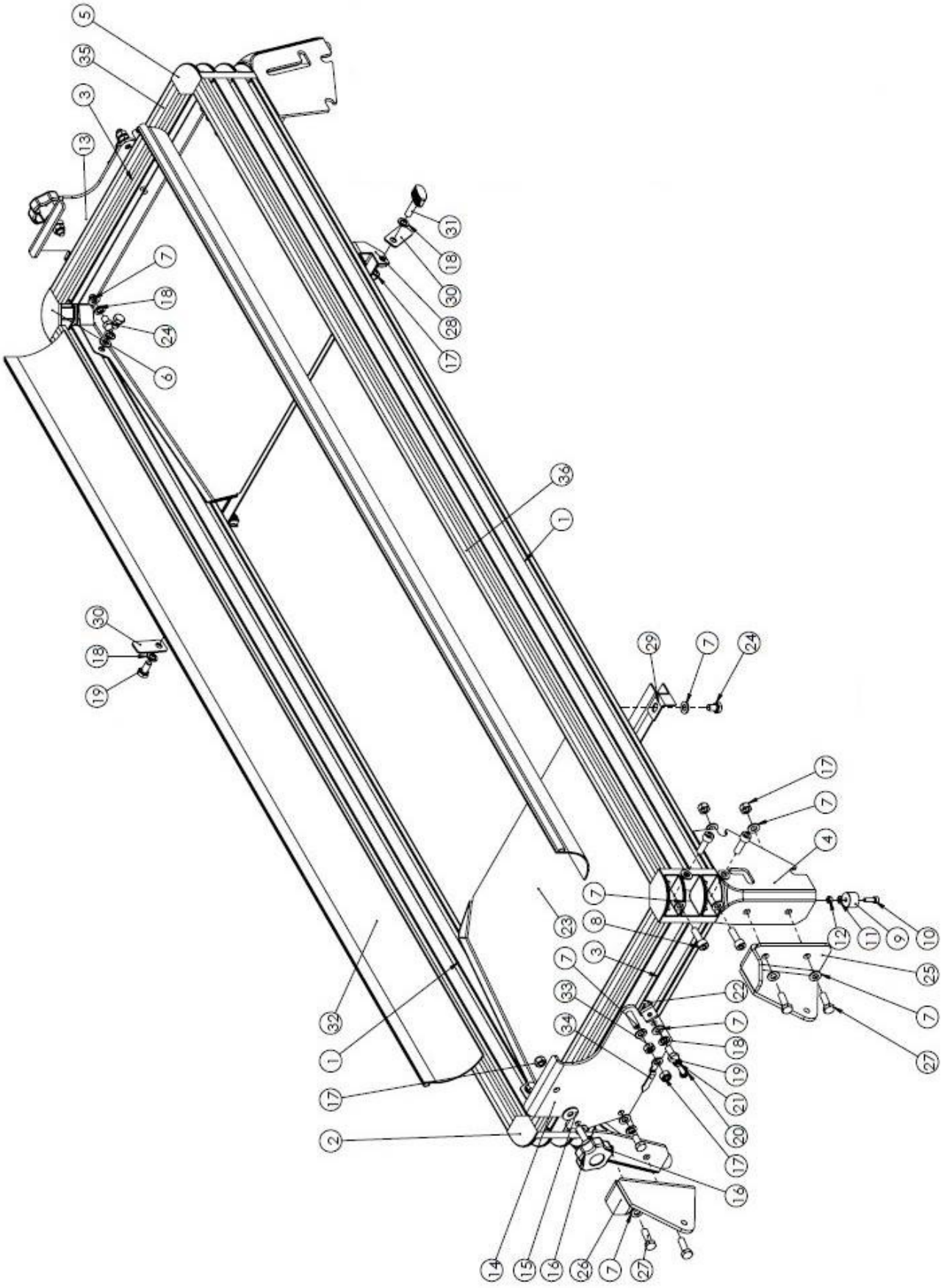
12.3.2 Main frame



Pos.	Art.-Nr.	Qty.	Norm / Info	Content	Bezeichnung	Description	Désignation
-	**-**	1	**TS200**	**Pos. 1-21**	Grundgestell kpl.	Main frame complete	Châssis complète

Available separately

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
1	**-**	2	30x90	Aluminiumleiste (lang)	Aluminium bar (long)	Règle alu (longue)
2	**-**	1	S1	Aluminium Verbindungsstück	Aluminium connector	Pièce de liaison en alu
3	**-**	2	30x90	Aluminiumleiste (kurz)	Aluminium bar (short)	Règle alu (courte)
4	**-**	1	S2	Aluminium Verbindungsstück	Aluminium connector	Pièce de liaison en alu
5	**-**	1	L1	Aluminium Verbindungsstück	Aluminium connector	Pièce de liaison en alu
6	**-**	1	L2	Aluminium Verbindungsstück	Aluminium connector	Pièce de liaison en alu
9	**-**	4		Distanzstück Gummi	Rubber spacer	Écarteur en caoutchouc
13	**-**	1		Träger vorne	Support front	Support avant
14	**-**			Träger hinten	Support rear	Support arrière
15	**-**	2		Scheibe	Washer	Rondelle
16	**-**	2	M8x30	Sterngriffschraube	Star grip screw	Poignée-étoile
22	**-**	18	M8	Mutter	Hexgonal spacer	Entretoise hexagonale
23	**-**	2		Wasser Abtropfblech	Water drain board	Tôle égouttoir
25	**-**	1		Aufnahme	Acceptance	Levé
26	**-**	1		Aufnahme	Acceptance	Levé
28	**-**	1		Stützplatte	Support plate	Plaque de support
29	**-**	1		Stützplatte	Support plate	Plaque de support
30	**-**	1		Behältersicherung	Water tray lock	Sécurité tank
31	**0289 400 9080**	2	M8x25 GN 531	Flügelschraube	Wing screw	Vis à ailettes
32	**-**	2		Gummileiste	Rubber strip	Liston élastique
34	**-**	2		Tiefenanzeiger	Depth finder	Indicateur de la gravité
35	**-**	2		Verschlussstreifen	Blanking plate	Bande de fermeture
36	**-**	2		Verschlussstreifen	Blanking plate	Bande de fermeture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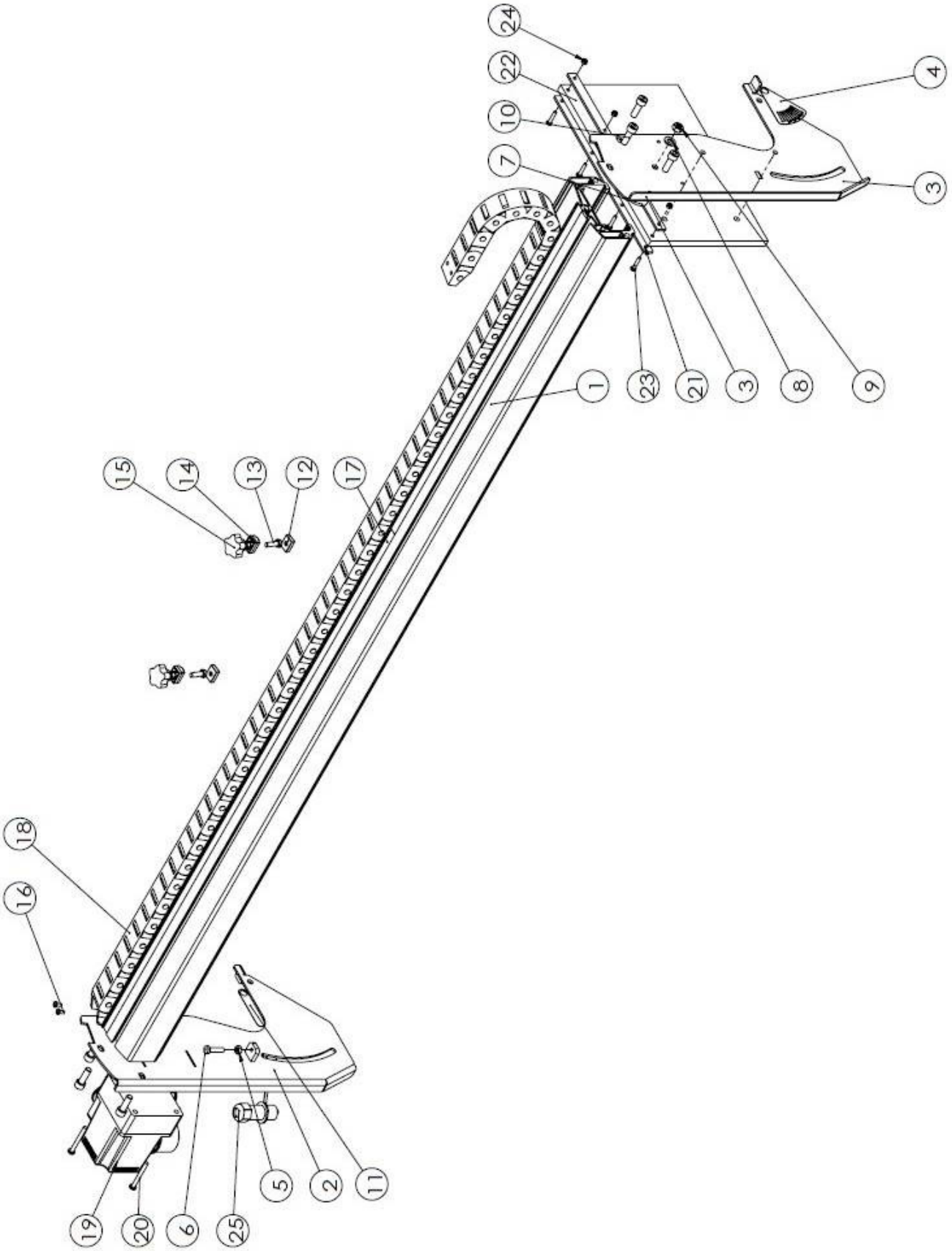
Standard parts

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
7	-	44	A 8,4 ISO 7089	Scheibe	Washer	Rondelle
8	-	16	M8x25 ISO 4762	Schraube	Screw	Vis
10	-	4	M5x16 ISO 4762	Schraube	Screw	Vis
11	-	4	A 5,3 ISO 7089	Scheibe	Washer	Rondelle
12	-	4	M 5 ISO 7040	Mutter	Nut	Écrou
17	-	9	M8 ISO 7040	Mutter	Nut	Écrou
18	-	16	A 8 DIN 127	Federring	Spring washer	Rondelle-ressort
19	-	7	M 8 x 16 ISO 4017	Schraube	Screw	Vis
20	-	2	M6x25 ISO 4017	Schraube	Screw	Vis
21	-	2	M6 ISO 4032	Mutter	Nut	Écrou
24	-	12	M8x12 ISO 4017	Schraube	Screw	Vis
27	-	4	M8x25 ISO 4017	Schraube	Screw	Vis
33	-	2	M 8 ISO 4032	Mutter	Nut	Écrou

12.3.3 Guiding bridge



Pos.	Art.-Nr.	Qty.	Norm / Info	Content	Bezeichnung	Description	Désignation
-	-	1		**Pos. 1-25**	Führungsbrücke kpl.	Guiding bridge cpl.	Pont de guidage complet

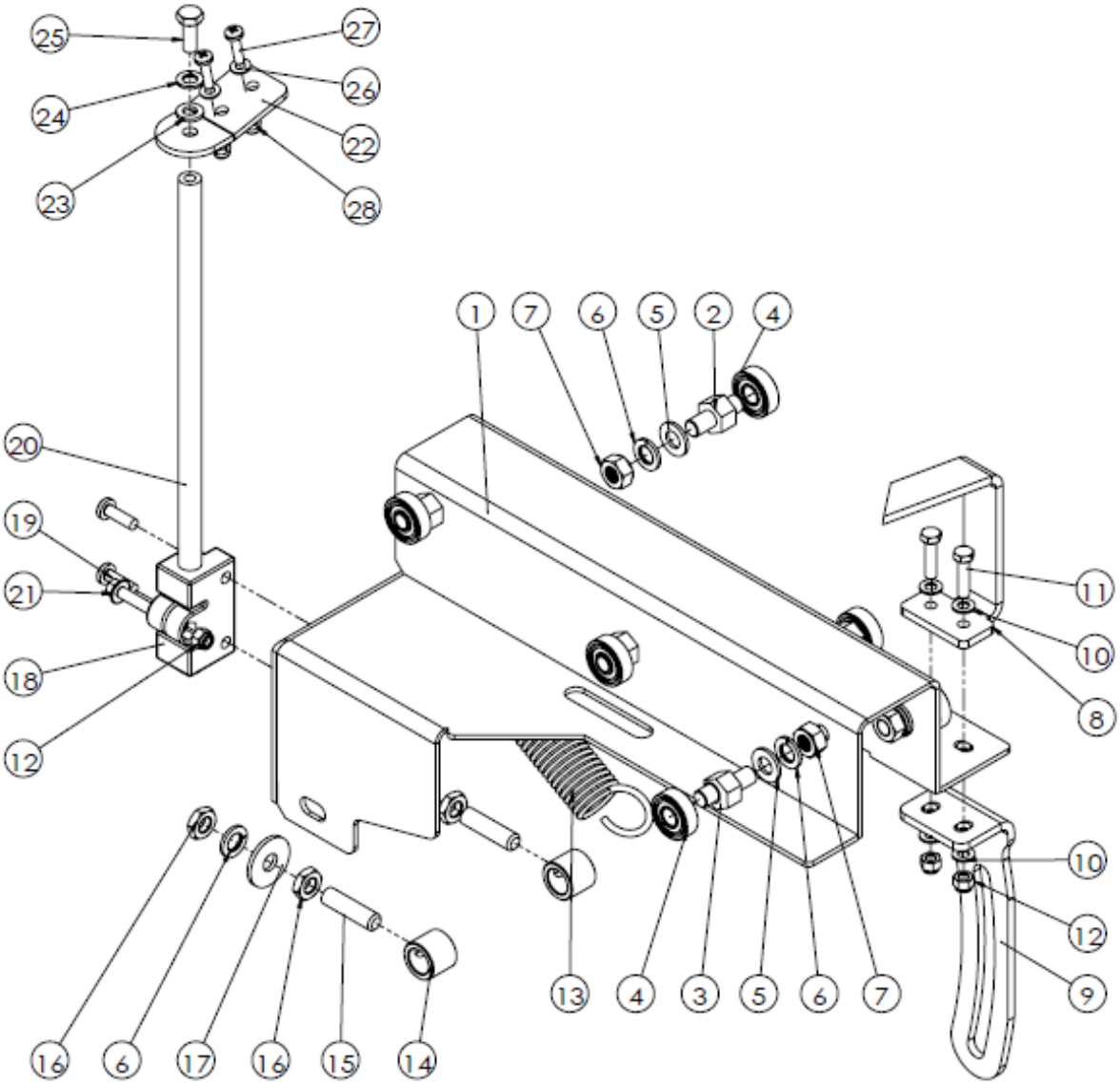
Available separately

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
1	-	1		Führungsschiene	Guiding rail	Glissière
2	-	1		Seitenteil vorne	Side part front	Carter avant
3	-	1		Seitenteil hinten	Side part back	Carter arrière
4	-	1		Winkel Skala links	Angular scale left	Butée angulaire gauche
5	-	1		Gummipuffer	Rubber stop	Patin
11	-	1		Winkel Skala rechts	Angular scale right	Butée angulaire droite
12	**0289 200 9043**	2		Anschlag Platte 1	Limitation plate 1	Limitation plaque 1
14	**0289 200 9044**	2		Anschlag Platte 2	Limitation plate 2	Limitation plaque 2
15	**0289 200 9045**	2	M 6	Griff	Handle	Poignée
17	-	1		Skala	Scale	Cadran
18	-	1		Kabelschutz Energiekette	Cable protection energy chain	Protection câble électrique
19	-	1		Schalter / Stecker mit Laser	Switch / Plug with laser	Interrupteur / Connecteur avec laser
21	-	2		Halteblech	Holding plate	Cadre support
22	-	1		Spitzschutz	Splash guard	Bavette anti-projection
25	**0289 400 9004**	1	Female, ohne Außengewinde und Schutzkappe	Kupplung	Clutch	Raccord
	-	1	Female, mit Außengewinde und Schutzkappe			

Standard parts

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
5	-	2	M 6 ISO 4032	Mutter	Nut	Écrou
6	-	2	M 6 x 25 ISO 4017	Schraube	Screw	Vis
8	-	1	A 8,4 ISO 7089	Scheibe	Washer	Rondelle
9	-	1	M 8 ISO 4032	Mutter	Nut	Écrou
10	-	6	M 8 x 25 ISO 4762	Schraube	Screw	Vis
13	-	2	M 6 x 20 ISO 4017	Schraube	Screw	Vis
16	-	2	M 4 x 8 ISO 7045	Schraube	Screw	Vis
20	-	2	M5x45 ISO 7045	Schraube	Screw	Vis
23	-	4	M 4 x 20 ISO 7045	Schraube	Screw	Vis
24	-	4	M4 ISO 7040	Mutter	Nut	Écrou

12.3.4 Motor support

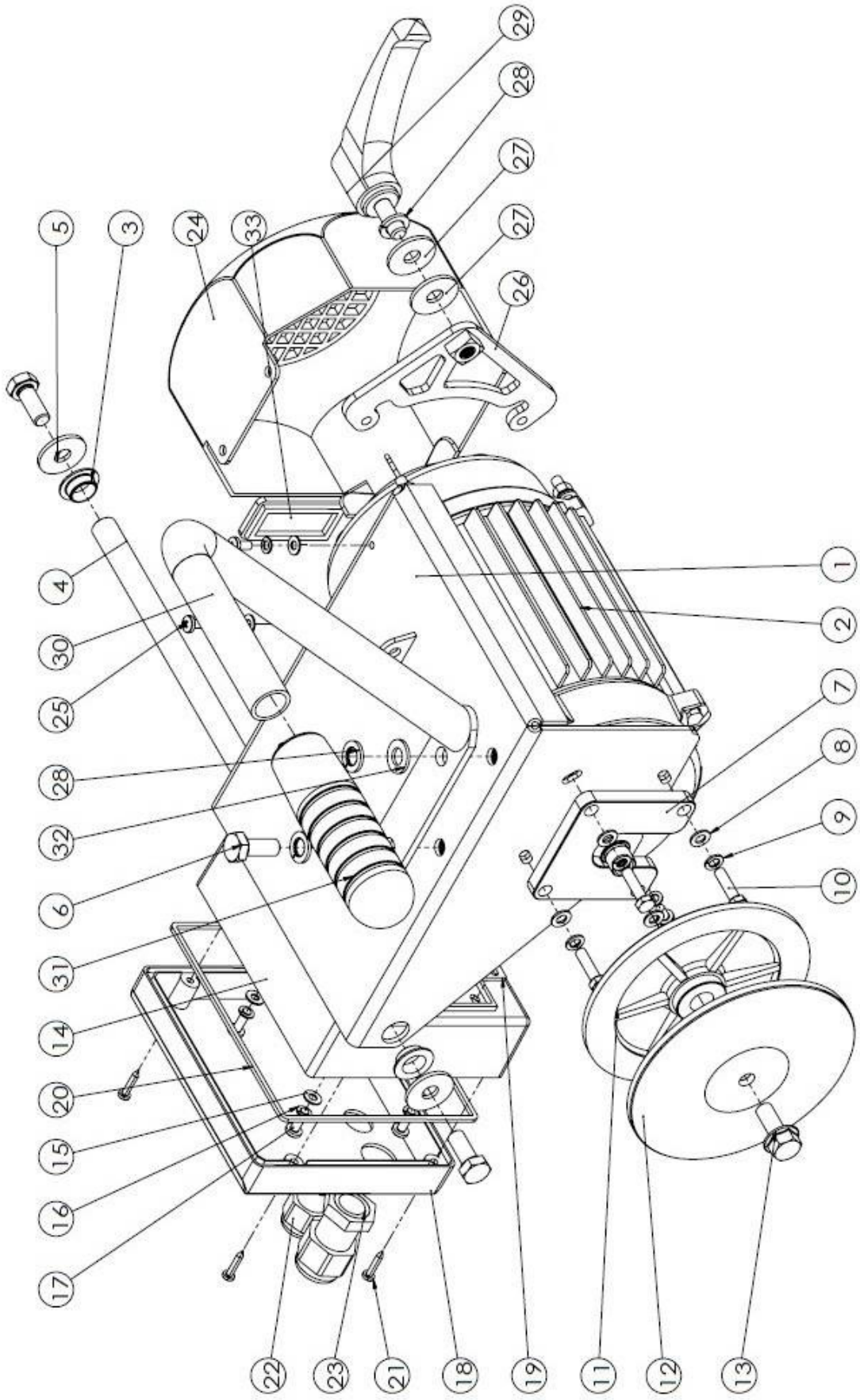


Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**-**	1		**Pos. 1-28**	Motoraufnahme	Motor support	Levé moteur

Available separately						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**-**	1		Schneidkopfaufnahme kpl.	Cutter head acceptance complete	Guide de tête de coupe complète
2	**-**	2		Welle	Shaft	Arbre
3	**-**	5		Exzenterwelle	Eccentric shaft	Arbre excentrique
4	**0295 000 0899**	7	608-2RS1 DIN 625	Kugellager	Ball bearing	Roulement à billes
8	**-**	1		Längenanzeige	Length indicator	Indicateur de la longueur
9	**-**	1		Begrenzungsplatte	Limited plate	Plaque de contrainte
13	**0289 200 9026**	1		Feder	Spring	Ressort
14	**-**	2		Begrenzungsring	Limit ring	Anneau de retenue
18	**0289 200 9020**	1		Wellen Halter	Shaft holding block	Support d'arbre
20	**0289 250 9014**	1		Einstell-Welle	Adjustable shaft	Arbre de réglage
22	**-**	1		Kabelschutzhalter	Cable protection holder	Protection du câble

Standard parts						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
5	**-**	7	A 8,4 ISO 7089	Scheibe	Washer	Rondelle
6	**-**	9	A 8 DIN 127	Federring	Spring washer	Rondelle-ressort
7	**-**	7	M 8 ISO 4032	Mutter	Nut	Écrou
10	**-**	4	A 5,3 ISO 7089	Scheibe	Washer	Rondelle
11	**-**	2	M5x20 ISO 4017	Schraube	Screw	Vis
12	**-**	3	M 5 ISO 7040	Mutter	Nut	Écrou
15	**-**	2	M 8 x 30 ISO 4026	Gewindestift	Set screw	Vis sans tête
16	**-**	4	M 8 ISO 4035	Mutter	Nut	Écrou
17	**-**	2	8,4 ISO 7093	Scheibe	Washer	Rondelle
19	**-**	2	M 5 x 16 ISO 7045	Schraube	Screw	Vis
21	**-**	1	M 5 x 20 ISO 4762	Schraube	Screw	Vis
23	**-**	1	A 6,4 ISO 7089	Scheibe	Washer	Rondelle
24	**-**	1	A 6 DIN 127	Federring	Spring washer	Rondelle-ressort
25	**-**	1	M 6 x 16 ISO 4017	Schraube	Screw	Vis
26	**-**	2	A 4,3 ISO 7089	Scheibe	Washer	Rondelle
27	**-**	2	M 4 x 16 ISO 7045	Schraube	Screw	Vis
28	**-**	2	M 4 ISO 7040	Mutter	Nut	Écrou

12.3.5 Cutter head



Pos.	Art.-Nr.	Qty.	Norm / Info	Content	Bezeichnung	Description	Désignation
-	-	1		**Pos. 1-33**	Schneidkopf kpl.	Cutter head complete	Tête de coupe complète

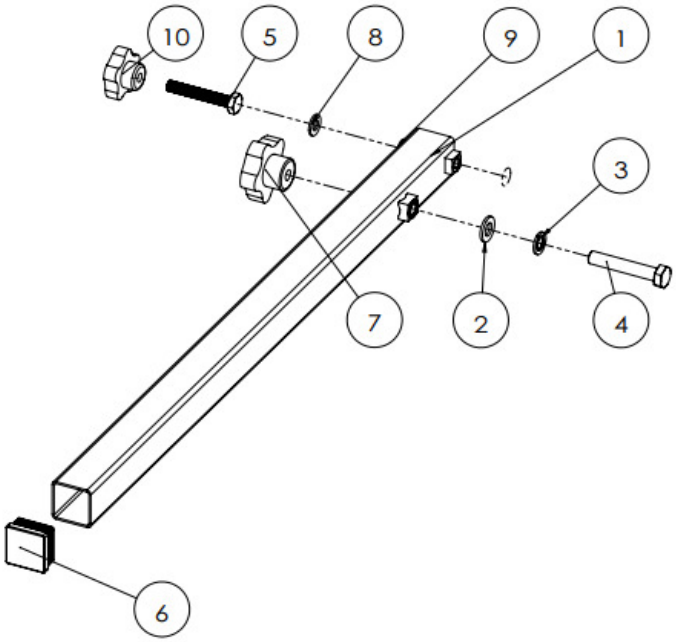
Available separately

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
1	-	1		Motoraufnahme	Motor support	Levé moteur
2	**0289 200 9011**	1		Motor kpl.	Motor complete	Moteur complète
3	**0289 200 9037**	2	GFM-1214-06	Gleitlager	Bush bearing	Roulement coulissant
4	-	1		Achse	Axis	Arbre
7	**0289 200 9033**	1		Distanzplatte	Distance plate	Plaque de distance
11	-	1		Innenflansch	Inner flange	Bride intérieur
12	**0289 200 9005**	1		Außenflansch	Outer flange	Bride extérieur
14	-	1		Schaltkasten	Switch box	Combinateur
18	-	1		Deckel	Cover plate	Couvercle
19	-	1		Dichtung	Gasket	Joint
20	-	1		Dichtung	Gasket	Joint
22	-	2	PG9	Kabelverschraubung	Cable connection	Branchement
23	-	1	PG11	Kabelverschraubung	Cable connection	Branchement
24	**0289 200 9007**	1		Lüfterdeckel	Fan cover	Couvercle de ventilateur
26	-	1		Schnitttiefe Fixierplatte	Cutting depth fixing plate	Plaque de fixation de profondeur de coupe
29	**0289 200 9023**	1	GN602-78-M8-20-SW	Klemmhebel	Clamp lever	Levier de serrage
30	-	1		Griffstange	Handle bar	Barres d'appui
31	**0289 350 9066**	1	Ø20	Handgriff	Handle grip	Poignée
33	-	1		Stopfen	Stopple	Bouchon

Standard parts

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
5	-	2	8,4 ISO 7093	Scheibe	Washer	Rondelle
6	-	4	M 8 x 20 ISO 4017	Schraube	Screw	Vis
8	-	4	A 5,3 ISO 7089	Scheibe	Washer	Rondelle
9	-	4	A 5 DIN 127	Federring	Spring washer	Rondelle-ressort
10	-	4	M 5 x 20 ISO 4017	Schraube	Screw	Vis
13	**0289 200 9004**	1	M 8 x 20 LH DIN 6921	Schraube	Screw	Vis
15	-	7	A 4,3 ISO 7089	Scheibe	Washer	Rondelle
16	-	7	A4 DIN 127	Federring	Spring washer	Rondelle-ressort
17	-	4	M 4 x 12 ISO 7045	Schraube	Screw	Vis
21	-	4	ST2.9x16 ISO 7049	Schraube	Screw	Vis
25	-	3	M 4 x 8 ISO 7045	Schraube	Screw	Vis
27	-	2	8,4 ISO 7093	Scheibe	Washer	Rondelle
28	-	3	A8 DIN 127	Federring	Spring washer	Rondelle-ressort
32	-	2	A 8,4 ISO 7089	Scheibe	Washer	Rondelle

12.3.6 Main pillar

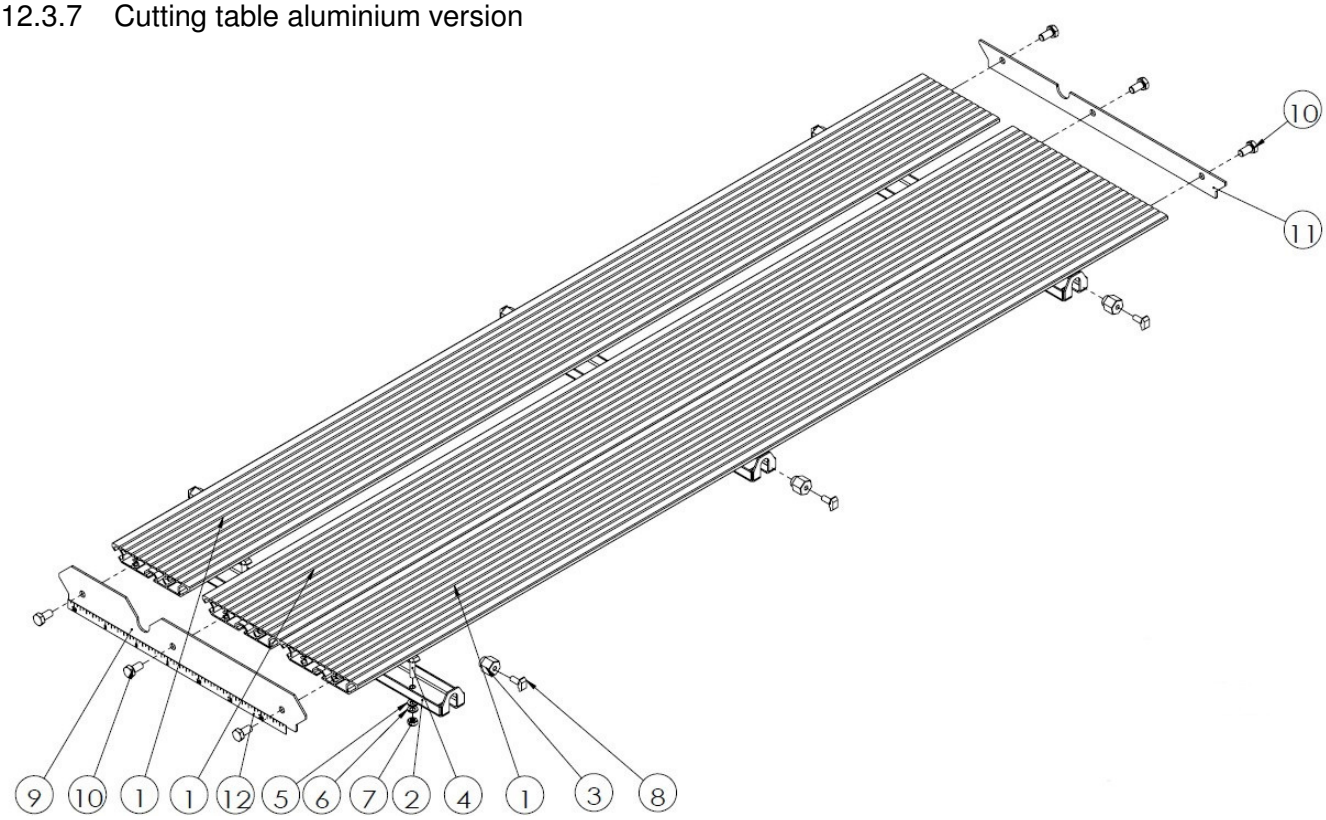


Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**0282 400 9009**	1		**Pos. 1-10**	Standbein kpl.	Main pillar complete	Jambe de pivot complète

Available separately						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**-**	1		Standbein	Main pillar	Jambe de pivot
7	**0289 400 9030**	1	30x30	Stopfen	Stopple	Bouchon
8	**0282 400 9026**	1	M12	Sterngriff	Star grip	Poignée-étoile
10	**0282 400 9079**	1	M10	Sterngriff	Star grip	Poignée-étoile

Content spare parts list						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**0282 400 9009**	1		Standbein	Main pillar	Jambe de pivot
2		1	A13 ISO 7089	Scheibe	Washer	Rondelle
3		1	A12 DIN 127	Federring	Spring washer	Rondelle-ressort
4		1	M12x70 ISO 4017	Schraube	Screw	Vis
5		1	M10x65 ISO 4014	Schraube	Screw	Vis
6		1	30x30	Stopfen	Stopple	Bouchon
7		1	M12	Sterngriff	Star grip	Poignée-étoile
8		1	A10,5 ISO 7089	Scheibe	Washer	Rondelle
9		1	A10 DIN 127	Federring	Spring washer	Rondelle-ressort
10		1	M10	Sterngriff	Star grip	Poignée-étoile

12.3.7 Cutting table aluminium version

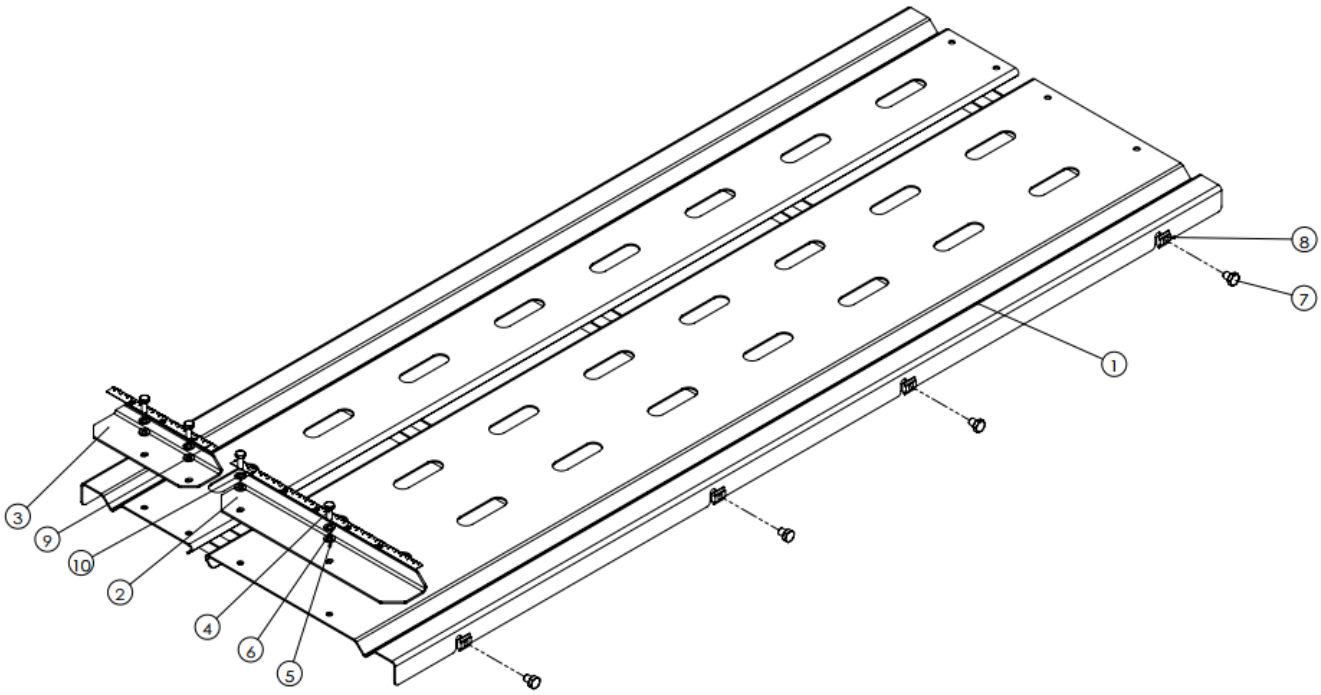


Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**-**	1		**Pos. 1-12**	Schnittguttisch kpl.	Cutting table complete	Table de travail complète

Available separately						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**-**	3		Aluminiumprofil	Aluminium profile	Profil en aluminium
2	**-**	3		Aufnahme	Acceptance	Logement
3	**-**	6		Mutter	Nut	Écrou
4	**-**	9	M6x25	Schraube	Screw	Vis
8	**-**	6	M6x16	Schraube	Screw	Vis
9	**-**	1		Anschlagblech	Limit plate	Lame d'arrêt
10	**-**	1		Halteblech	Holding plate	Cadre support
11	**-**	1		Lineal	Rule	Règle

Standard parts						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
5	**-**	9	A6,4 ISO 7089	Scheibe	Washer	Rondelle
6	**-**	9	A6 DIN 127	Federring	Spring washer	Rondelle-ressort
7	**-**	9	M6 ISO 4032	Mutter	Nut	Écrou
10	**-**	6	M8x16 ISO 4017	Schraube	Screw	Vis

12.3.8 Cutting table steel version

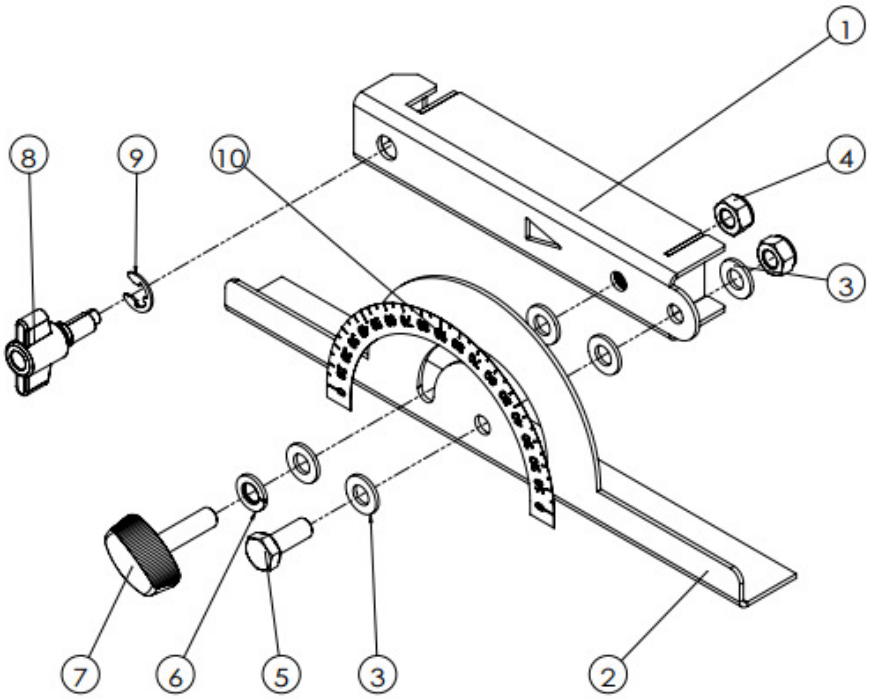


Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**-**	1		**Pos. 1-10**	Schnittguttisch kpl.	Cutting table complete	Table de travail complète

Available separately						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**-**	1		Schnittguttisch	Cutting table	Table de travail
2	**-**	1		Anschlagblech	Stop plate	Lame d'arrêt
3	**-**	1		Anschlagblech	Stop plate	Lame d'arrêt
8	**-**	8	M8	Mutter	Hexagonal spacer	Entretoise hexagonale
9	**-**	1		Skala links	Scale left	Barème gauche
10	**-**	1		Skala rechts	Scale right	Barème droite

Standard parts						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
4	**-**	4	M6x16 ISO 4017	Schraube	Screw	Vis
5	**-**	4	A6,4 ISO 7089	Scheibe	Washer	Rondelle
6	**-**	4	A6 DIN 127	Federring	Spring washer	Rondelle-ressort
7	**-**	8	M8x10 ISO 4017	Schraube	Screw	Vis

12.3.9 Back square

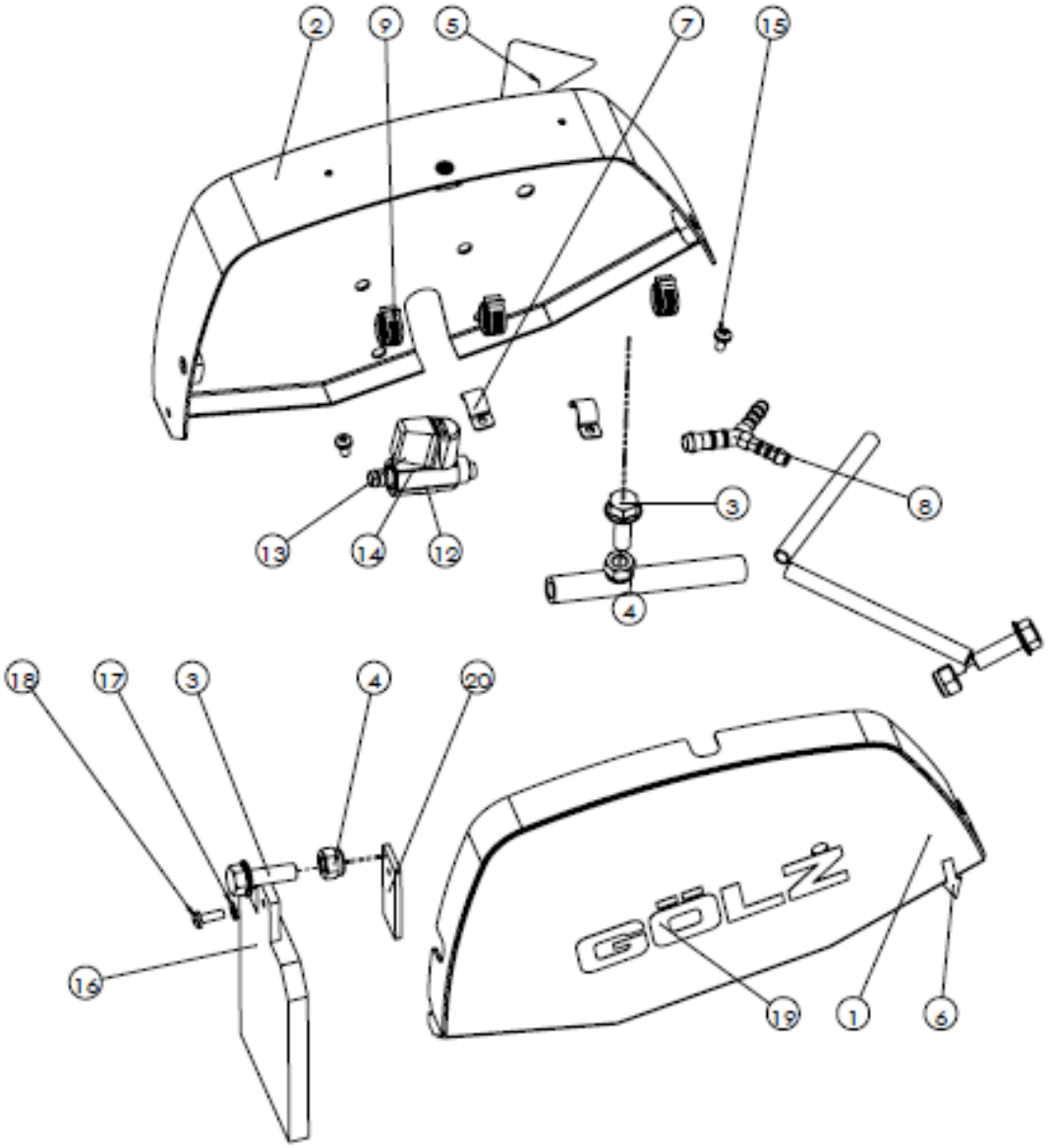


Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**0289 200 9013**	1		**Pos. 1-10**	Anschlagwinkel kpl.	Back square complete	Équerre complète

Available separately						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
7	**0289 400 9080**	1	M8x25 GN 531	Flügelschraube	Wing screw	Vis à ailettes

Content spare parts list						
Pos.	**Art.-Nr.**	**Qty.**	**Norm**	**Bezeichnung**	**Description**	**Désignation**
1	**0289 200 9013**	1		Aufnahme	Acceptance	Logement
2		1		Anschlagwinkel	Back square	Équerre
3		5	A8,4 ISO 7089	Scheibe	Washer	Rondelle
4		2	M8 ISO 7040	Mutter	Nut	Écrou
5		1	M8x20 ISO 4017	Schraube	Screw	Vis
6		1	A8 DIN 127	Federring	Spring washer	Rondelle-ressort
7		1	M8x25 GN 531	Flügelschraube	Wing screw	Vis à ailettes
8		1		Exzentergriff	Eccentric handle	Poignée excentrique
9		1	8 DIN 6799	Sicherungsscheibe	Lock washer	Rondelle d'arrêt
10		1		Skala	Scale	Cadran

12.3.10 Blade guard



Order as spare parts package

Pos.	Art.-Nr.	Qty.	Norm / Info	Content	Bezeichnung	Description	Désignation
-	**-**	1		**Pos. 1-19**	Schutzhaube kpl.	Blade guard complete	Capot protecteur complète

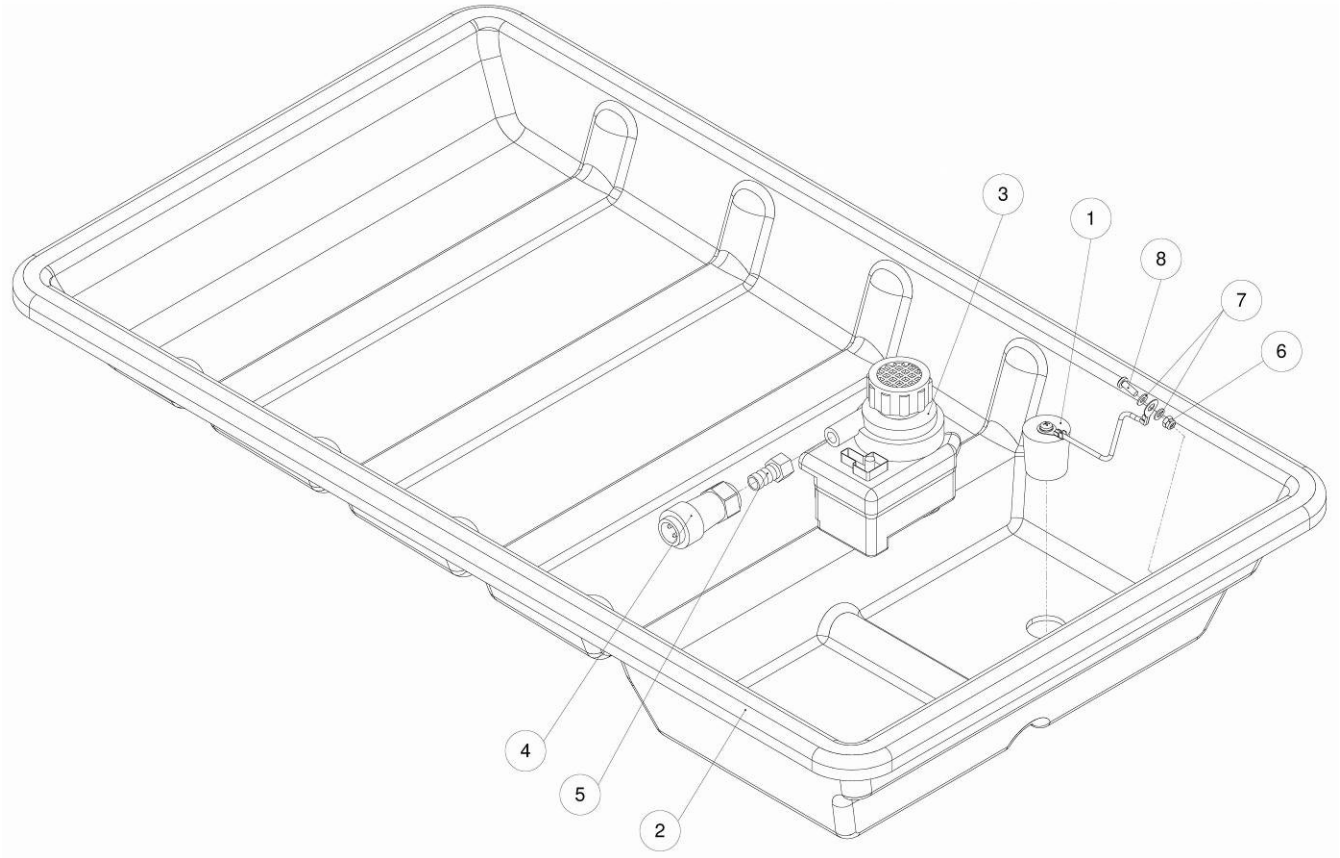
Available separately

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
1	**0289 250 9012**	1		Schutzhaube Seitenteil	Blade guard side frame	Capot protecteur pièce latérale
2	**0289 250 9011**	1		Schutzhaube Seitenteil	Blade guard side frame	Capot protecteur pièce latérale
5	**-**	1		Aufkleber	Label	Autocollant
6	**0282 175 9031**	1	Pfeil	Aufkleber	Label	Autocollant
7	**-**	2		Schelle	Clamp	Collier
8	**0289 200 9039**	1		Y-Verteiler	Y-Distribution	Y-Distributeur
9	**-**	3		Schelle	Clamp	Collier
10	**0289 200 9029**	2		Schlauch	Hose	Tuyau
11	**-**	1		Schlauch	Hose	Tuyau
12	**-**	1		Doppelnippel	Double nipple	Raccord double
13	**-**	1	1/4"	Kugelhahn	Ball valve	Robinet à rotule
14	**0289 200 9040**	1	1/4"	Schlauchtülle	Hose clip	Tétine (Tuyau)
16	**-**	1		Spritzschutz	Splash guard	Bavette anti-projection
19	**-**	1		Aufkleber	Label	Autocollant

Standard parts

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
3	**-**	3	M 8 x 25 DIN 6921	Schraube	Screw	Vis
4	**-**	3	M 8 ISO 7040	Mutter	Nut	Écrou
15	**-**	2	M 4 x 8 ISO 7045	Schraube	Screw	Vis
17	**-**	1	A 4,3 ISO 7089	Scheibe	Washer	Rondelle
18	**-**	1	M 4 x 12 ISO 7045	Schraube	Screw	Vis

12.3.11 Water tank



Pos.	Art.-Nr.	Qty.	Norm / Info	Content	Bezeichnung	Description	Désignation
-	**-**	1		**Pos. 1-8**	Wasserwanne kpl.	Water tank complete	Bac à eau complet

Available separately

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
-	**0281 045 0112**	1	6cm	Pumpengehäuse mit Sieb	Pump housing with strainer	Carter de pompe avec tamis
-	**0289 400 9085**	1	7cm	Pumpengehäuse mit Sieb	Pump housing with strainer	Carter de pompe avec tamis
4a	**0289 400 9003**	1	Male, ohne Außengewinde und Schutzkappe	Kupplung	Clutch	Raccord
4b	**-**	1	Male, mit Außengewinde und Schutzkappe	Kupplung	Clutch	Raccord

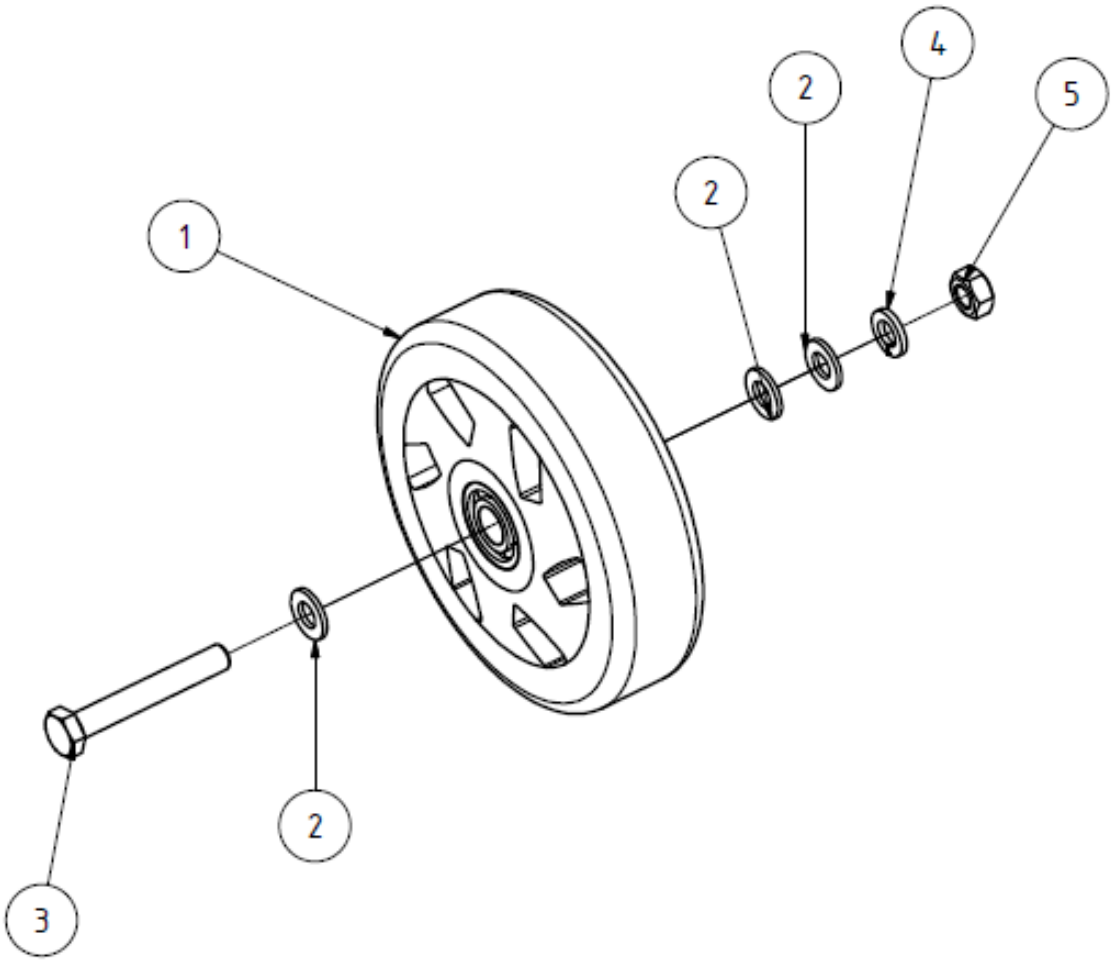
Order as spare parts package

Pos.	Art.-Nr.	Qty.	Norm / Info	Content	Bezeichnung	Description	Désignation
-	**0289 200 9018**	1		**Pos. 1, 2, 6, 7, 8**	Wasserwanne kpl.	Water tank complete	Bac à eau complet
-	**0289 400 9002**	1		**Pos. 3, 4, 5**	Wasserpumpe kpl.	Water pump complete	Pompe à eau complète
-	**0289 400 9001**	1		**Pos. 1, 6, 7, 8**	Ablaufstopfen kpl.	Drain plug complete	Bouchon de vidange complet

Content spare parts list

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
3	**0289 400 9002**	1	230 V	Wasserpumpe	Water pump	Pompe à eau
-		1		Schelle	Clamp	Collier
4a		1	Male, ohne Außengewinde und Schutzkappe	Kupplung	Clutch	Raccord
4b		1	Male, mit Außengewinde und Schutzkappe	Kupplung	Clutch	Raccord
5		1	¼“	Schlauchtülle	Hose fitting	Raccord à queue crantée
1	**0289 400 9001**	1		Ablaufstopfen kpl.	Drain plug complete	Bouchon de vidange complet
7		2	A4,3 ISO 7089	Scheibe	Washer	Rondelle
6		1	M4 ISO 7040	Mutter	Nut	Écrou
8		1	M4x12 ISO 7045	Schraube	Screw	Vis
1	**0289 200 9018**	1		Ablaufstopfen kpl.	Drain plug complete	Bouchon de vidange complet
2		1		Wasserwanne	Water tank	Bac à eau
6		1	M4 ISO 7040	Mutter	Nut	Écrou
7		2	A4,3 ISO 7089	Scheibe	Washer	Rondelle
8		1	M4x12 ISO 7045	Schraube	Screw	Vis

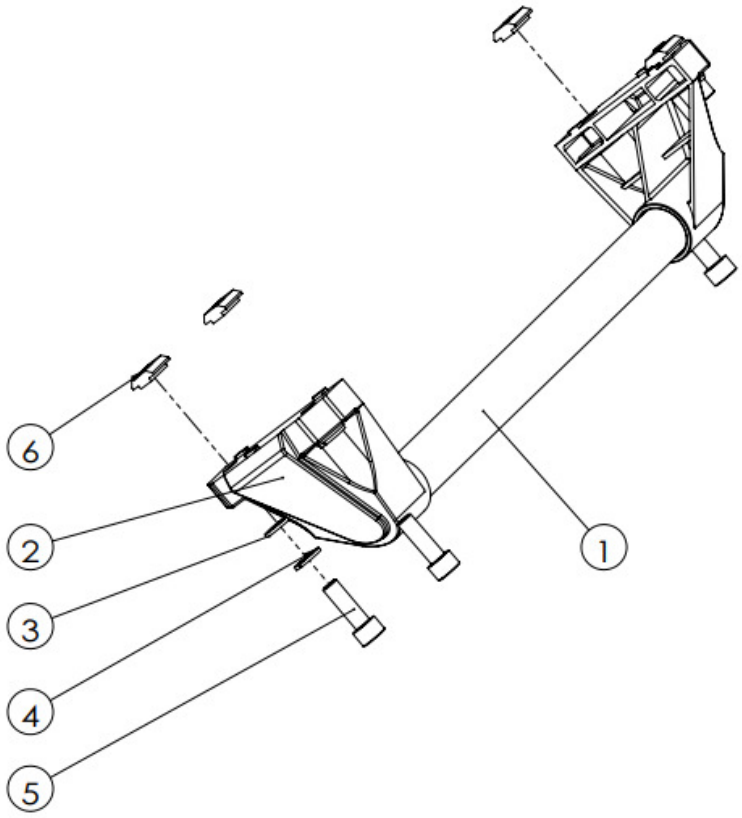
12.3.12 Transport wheel



Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**0289 400 9026**	1		**Pos.1-5**	Transporträder kpl.	Transport wheel complete	Roue de transport complète

Content spare parts list						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**0289 400 9026**	1		Transportrad	Transport wheel	Roue de transport
2		3	A8,4 ISO 7089	Scheibe	Washer	Rondelle
3		1	M8x55 ISO 4014	Schraube	Screw	Vis
4		1	A8 DIN 127	Federring	Spring washer	Rondelle-ressort
5		1	M8 ISO 4032	Mutter	Nut	Écrou

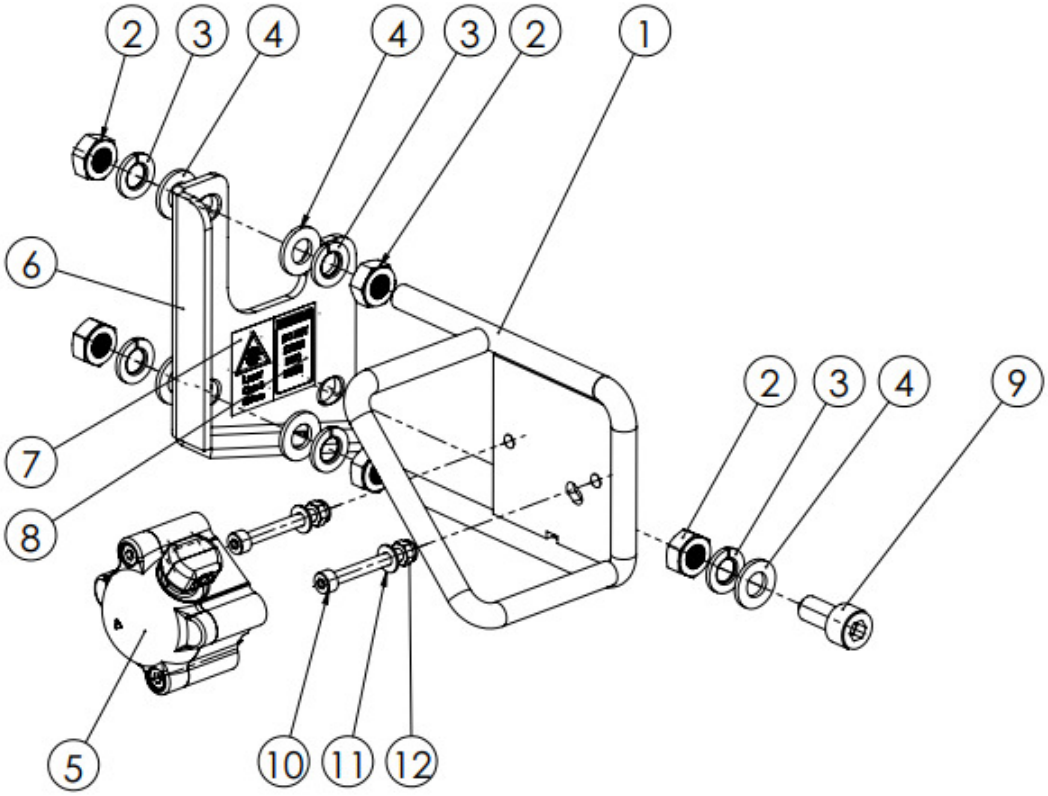
12.3.13 Transport handle



Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**-**	1		**Pos. 1-6**	Transportgriff kpl.	Transport handle complete	Poignée de transport complète

Content spare parts list						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	-	1		Griffstange	Handle bar	Barres d'appui
2		2		Griffaufnahme	Handle acceptance	Levé de la barre
3		4	A8,4 ISO 7089	Scheibe	Washer	Rondelle
4		4	A8 DIN 127	Federring	Spring washer	Rondelle-ressort
5		4	M8x25 ISO 4762	Schraube	Screw	Vis
6		4	M8	Mutter	Hexagonal spacer	Entretoise hexagonale

12.3.14 Laser



Pos.	Art.-Nr.	Qty.	Norm / Info	Content	Bezeichnung	Description	Désignation
-	-	1		**Pos. 1-12**	Laser kpl.	Laser complete	Laser complet

Available separately

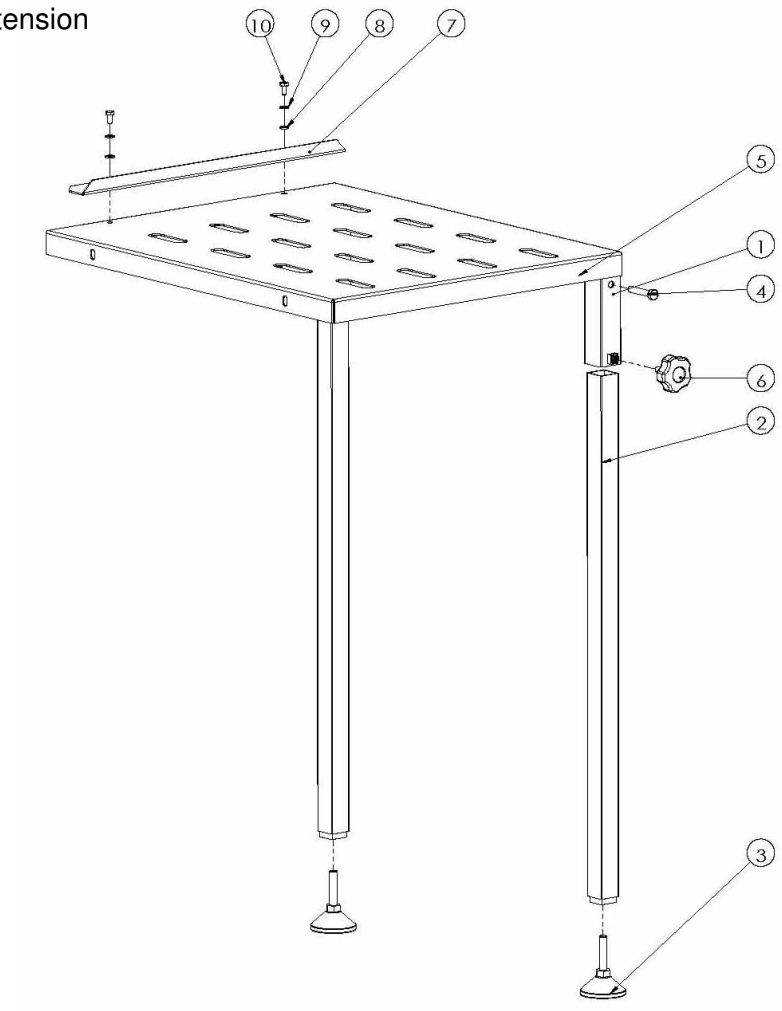
Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
5	-	1		Laser	Laser	Laser
6	-	1		Halteblech	Holding plate	Cadre support
7	-	1		Aufkleber	Sticker	Autocollant
8	-	1		Aufkleber	Sticker	Autocollant

Standard parts

Pos.	Art.-Nr.	Qty.	Norm / Info	Bezeichnung	Description	Désignation
2	-	5	M8 ISO 4032	Mutter	Nut	Écrou
3	-	5	A8 DIN 127	Federring	Spring washer	Rondelle-ressort
4	-	5	A8,4 ISO 7089	Scheibe	Washer	Rondelle
9	-	1	M8x16 ISO 4762	Schraube	Screw	Vis
10	-	2	M4x30 ISO 4762	Schraube	Screw	Vis
11	-	2	A4,3 ISO 7089	Scheibe	Washer	Rondelle
12	-	2	M4 ISO 7040	Mutter	Nut	Écrou

12.4 Optional accessory

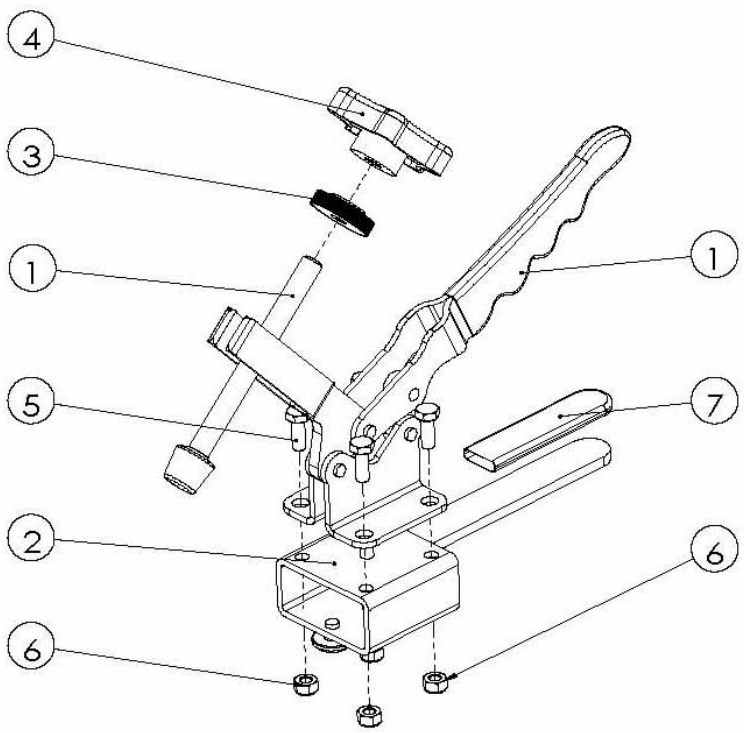
12.4.1 Lateral extension



Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**0289 250 9017**	1		**Pos. 1-10**	Seitlicher Ausleger kpl.	Lateral extension complete	Table latérale complète

Content spare parts list						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**0289 250 9017**	1		Auflagetisch	Supporting table	Table de support
2		2		Standbein	Main pillar	Jambe de pivot
3		2		Verstellbare Füße	Adjustable levelling feet	Pied ajustable
4		2	M8x45 ISO 4017	Schraube	Screw	Vis
5		2	M8 ISO 7040	Mutter	Nut	Écrou
6		2	M8x16	Sterngriffschraube	Star grip screw	Poignée-étoile
7		1		Halteblech	Holding plate	Cadre support
8		2	A6,4 ISO 7089	Scheibe	Washer	Rondelle
9		2	A6 DIN 127	Federring	Spring washer	Rondelle-ressort
10		2	M6x12 ISO 4017	Schraube	Screw	Vis

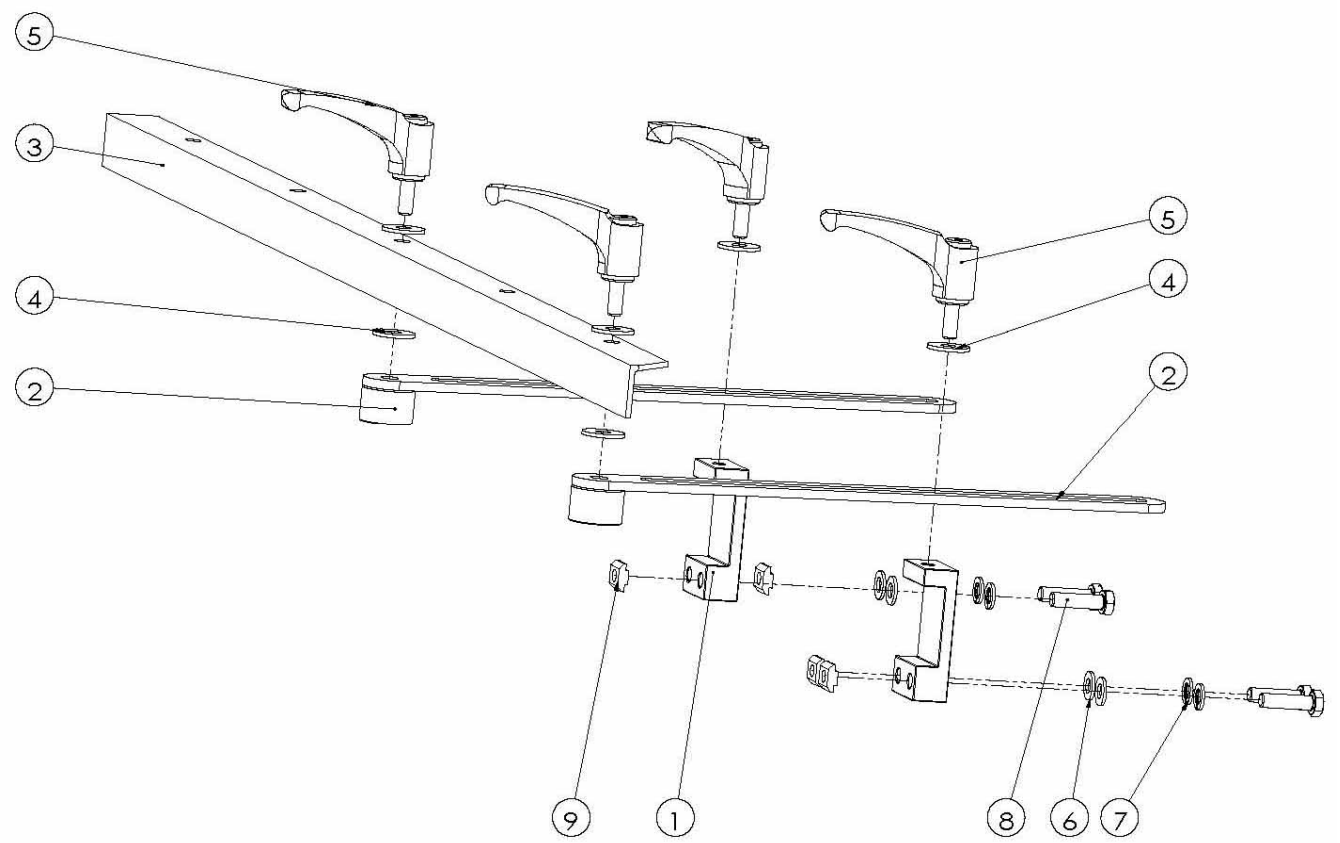
12.4.2 T-Lock tile clamp



Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**0289 250 9018**	1		**Pos. 1-7**	T-Lock Fliesen-Klemm-Vorrichtung kpl.	T-Lock tile clamp complete	Pince à dalles T-Lock complète

Content spare parts list						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**0289 250 9018**	1		Klemme 1	Clamp 1	Pince 1
2		1		Klemme 2	Clamp 2	Pince 2
3		1		Scheibe	Washer	Rondelle
4		1		Sterngriffschraube	Star grip screw	Poignée-étoile
5		4	M6x16 ISO 4017	Schraube	Screw	Vis
6		4	M6 ISO 7040	Mutter	Nut	Écrou
7		1		Griffhülse	Insulated handle sleeve	Couche de protection de la poignée

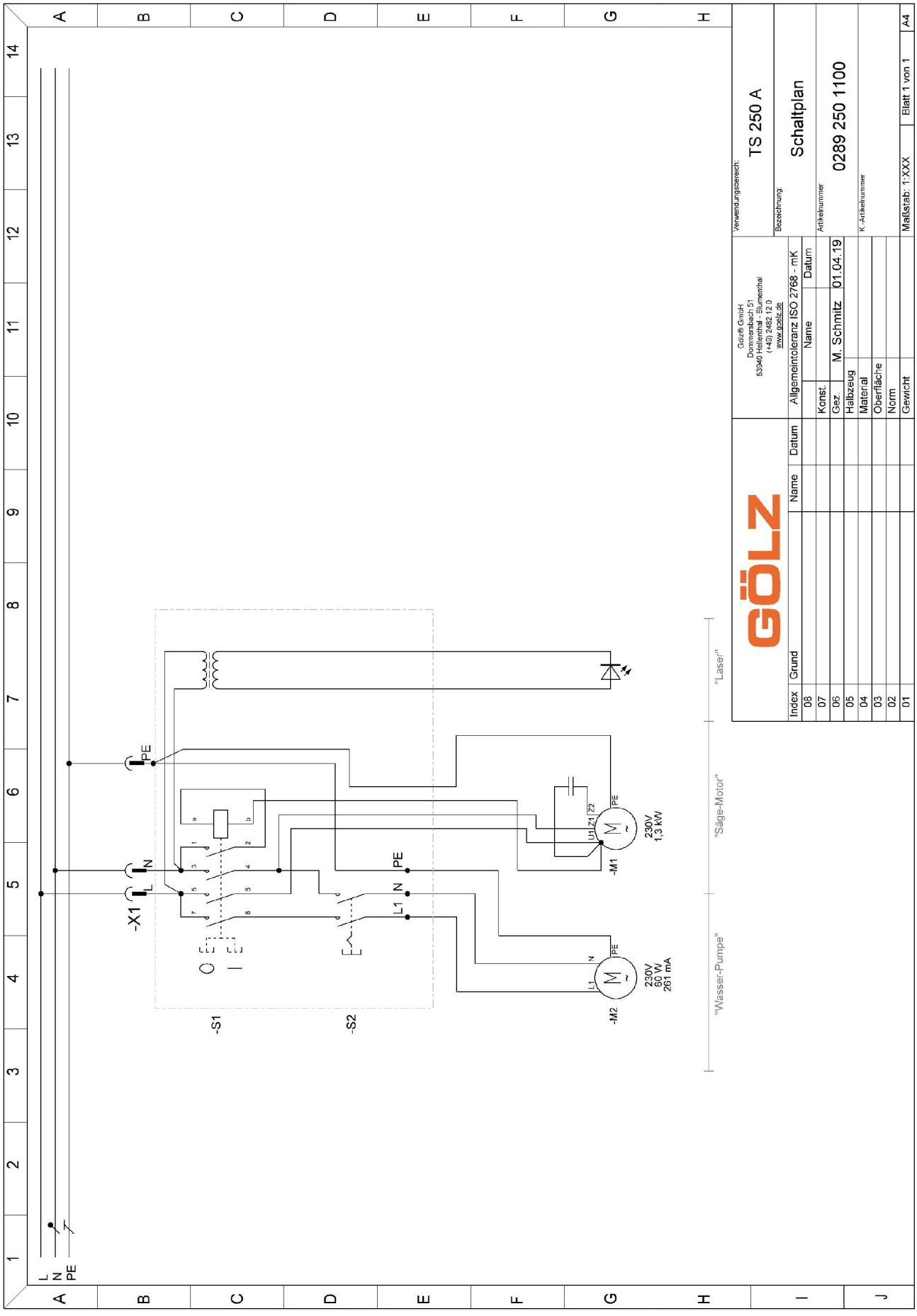
12.4.3 Long guider



Order as spare parts package							
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Content**	**Bezeichnung**	**Description**	**Désignation**
-	**0289 250 9019**	1		**Pos. 1-9**	Fliesenanschlag	Long guider	Buttée d'arrêt

Content spare parts list						
Pos.	**Art.-Nr.**	**Qty.**	**Norm / Info**	**Bezeichnung**	**Description**	**Désignation**
1	**0289 250 9019**	2		Acceptance	Logement	Aufnahme
2		2		Langlochplatte	Long hole plate	Plaque de guidage
3		1		Lineal	Rule	Règle
4		6	8,4 ISO 7093	Scheibe	Washer	Rondelle
5		4	GN602-78-M8-20-SW	Klemmhebel	Clamp lever	Levier de serrage
6		4	A8,4 ISO 7089	Scheibe	Washer	Rondelle
7		4	A8 DIN 127	Federring	Spring washer	Rondelle-ressort
8		4	M8x30 ISO 4017	Schraube	Screw	Vis
9		4	M8	Mutter	Hexagonal spacer	Entretoise hexagonale

13 Wiring diagram



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EU conformity declaration

GÖLZ® GmbH
Dommersbach 51
D-53940 Hellenthal
Deutschland

declares under sole responsibility that

Model:	**Tile cutting machine**
Make:	**GÖLZ**
Type:	**TS250A**

comply with the relevant provisions of the Directives

2006/42/EC	**Machinery directive**
2014/30/EU	**Electromagnetic compatibility**
2014/35/EU	**Low Voltage**
2005/88/EC	**Noise emission**
2012/19/EU	**Electrical and electronic waste**

and has been developed and fabricated in compliance with the following standards valid as at the production date:

DIN EN 12418:2010-03	**Masonry and stone cutting-off machines for job site - Safety**
DIN EN ISO 12100:2011-03	**Safety of machinery - General principles for design**
DIN EN ISO 13849-1:2016-06	**Safety of machinery - Safety-related parts of control systems**
DIN EN 61000-3-2:2015-03; VDE 0838-2:2015-03 **DIN EN 61000-3-11:2001-04; VDE 0838-11:2001-04**	**Electromagnetic compatibility (EMC)**
DIN EN 55014-1:2012-05; VDE 0875-14-1:2012-05 **DIN EN 55014-2:2016-01; VDE 0875-14-2:2016-01**	**Electromagnetic Compatibility**
DIN EN 60204-1; VDE 0113-1:2007-06	**Safety of machinery - Electrical equipment of machines**

Technical documentation kept by:

GÖLZ® GmbH
Development and design

Year of construction and machine number are indicated on the unit.

Hellenthal, 28.05.2020
GÖLZ® GmbH

.....
Managing Director
Bernd Schmitz