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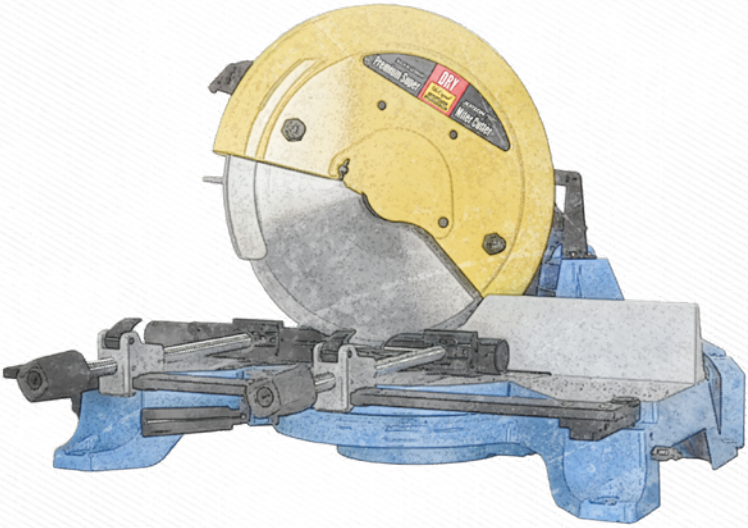
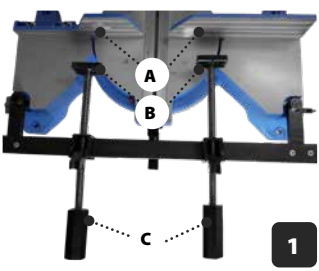
METAL CUTTING MITER SAW

PSDMC 9414

EN	**METAL CUTTING MITER SAW**	**NL**	**METAAL VERSTEKZAAG**
ES	**SIERRA INGLETADORA PARA METAL**	**PT**	**SERRA DE ESQUADRÃO PARA METAL**
FR	**SCIE À ONGLETS POUR MÉTAL**	**IT**	**SEGA TRONCATRICE PER METALLI**
DE	**METALLGEHRUNGSSÄGE**	**PL**	**PIŁA UKOSOWA DO METALU**

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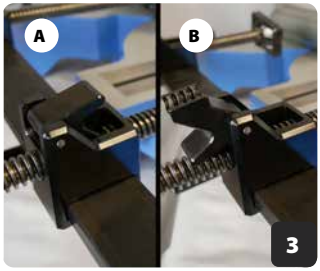
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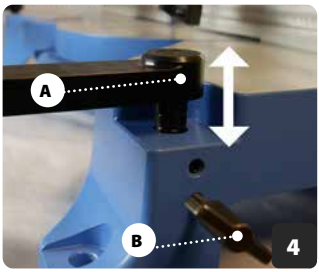
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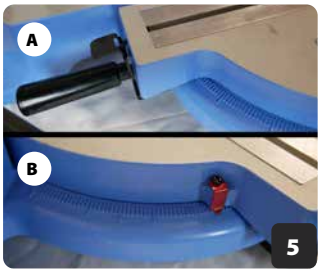
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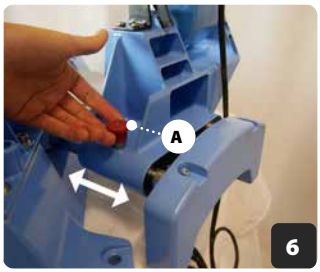
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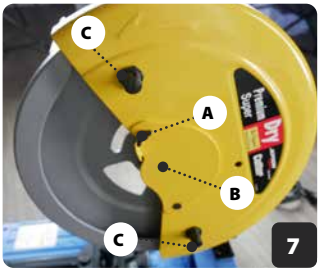
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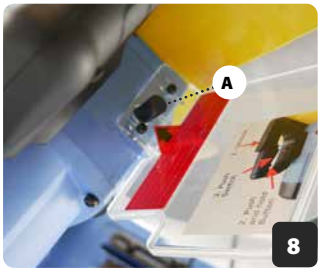
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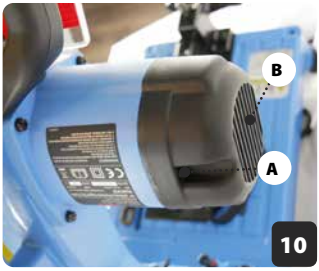
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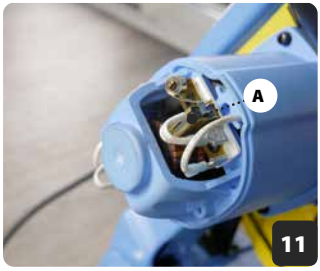
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1.Unlock
2.Push and hold Button
3.Push Switch
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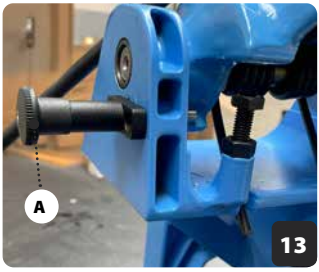
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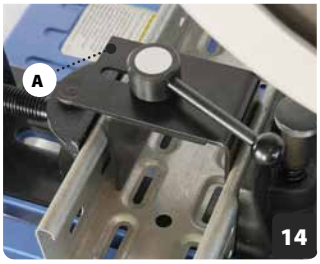
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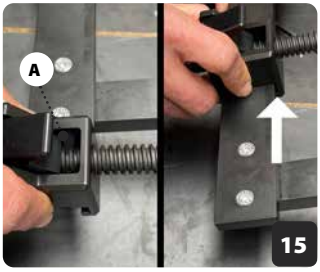
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1. EC- DECLARATION OF CONFORMITY

(according to Appendix IIA of the machine Directive)

We, **Jepson Power GmbH, Ernst – Abbe – Straße 5, 52249 Eschweiler, Germany**, as the manufacturer declare herewith under our responsibility that the product:

Machine name:	Metal cutting miter saw
Type:	Premium Super Dry Miter Cutter 9414
Manufacturing date:	See machine label
Serial number:	See machine label

complies with the following standards, directives and referenced standard documents:

2006/42/EG	Machinery Directive
2014/30/EU	Electromagnetic Compatibility
2011/65/EU	RoHs

CE

EN 614-1	2006+A 1:2009	EN 55014-2	2015
EN ISO 12100	2010	EN 61000-3-2	2014
EN ISO 14120	2015	EN 61000-3-3	2013
EN 55014-1	2021	EN 62841-1	2015+A11:2022

Pierre Michiels, Managing Director
Name, Position

Eschweiler, 01.06.2025

2. SHORT DESCRIPTION

The construction saw PREMIUM SUPER DRY MITER CUTTER is designed and built according to current international standards of the machine tool industry.
The machine complies with the current regulations for emissions and safety at work, in particular the rules for the prevention of accidents.
IMPORTANT
If changes to a machine are made without our authorisation, the certificate is null and void and the EC conformity mark ceases to be valid. The machine may no longer be operated. Likewise, the guarantee and the liability of the manufacturer are cancelled.

The construction saw PSDMC 9414 stands out for:
- easy transport
- simple operation
- many possible applications
- large work space
- suitable for sawing metals and for mitre cuts

3. TECHNICAL SPECIFICATIONS

Voltage	110 V / 60 Hz
Power input	15A (110V)
Saw blade [mm]	Ø 14" x .0,86/.07" x 1" (Ø 355 x 2,2/1,8 x 25,4 mm)
Number of teeth	90
Speed (idling)	1.300 rpm
Mitre cutting	-45° —> +45°
Surface area	31½" x 26⅜" (800 x 670 mm)
Weight (without saw blade)	60 lbs (27 kg)
Sound pressure level	100 db(A)
Sound power level	113 dB(A)
Hand and arm vibration	1,19 m/s²
Appliance class	⧈ / II

Information referred to 2.2 of Annex 1 of the E. G. Directive on vibrations)

4. PERFORMANCE DATA

max. Ø [mm] max a x b [mm]	0°	45°
	5½" (140 mm) inox: 5" (125 mm)	4" (102 mm)
	5" x 5" (125x125 mm)	3⅛" x 3⅛" (80x80 mm)
	4⅛" x 6⅛" (105x155 mm)	3" x 4" (75x100 mm)

5. USER INSTRUCTIONS

Notes for the customer
The instruction manual includes important instructions as to how to operate the machine safely, correctly and economically. Observing these instructions helps to avoid risks, repair costs and downtimes and to increase the reliability and lifetime of the machine.
The instruction manual must be read and used by each person who works with the electrical equipment. This applies in particular to the "Safety Instructions" chapter. It is too late to read the manual and safety instructions when work is actually being carried out at the machine.
Always keep one copy of this manual next to the machine so that it is at hand ready to be consulted!
In case of any doubt or questions, always contact the machine manufacturer.
In addition to the instruction manual, the accident prevention regulations which apply in the country of use and the user location must be adhered to. In addition, the recognised technical rules regarding accident prevention must be observed.

Liability and warranty
All the information contained in this instruction manual has been drawn up to the best of our knowledge and belief, taking our experience to date into consideration.
The original version of this instruction manual was drawn up in the German language and was checked by us for accuracy of content. The translation into the respective national/contractual language was carried out by a recognised translation agency.
This instruction manual has been put together with the greatest of care. However, if you should discover any incomplete items or mistakes, please inform us in writing. Your suggestions for improvement will help us to create a user-friendly manual.

Subsequent Orders and Copyright
Further copies of this instruction manual can be ordered from the address below. We ask for your understanding that further copies are subject to charge.

Jepson Power GmbH
Ernst-Abbe-Straße 5
D-52249 Eschweiler
Phone: +49 (0)2403 – 6455-0
Fax: +49 (0)2403 – 6455-15
Mail: info@jepson.de

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Abbreviations

V	Volt
A	Ampere
Hz	Hertz
W	Watt
~	AC
/min	Revolutions per minute rpm
N	Newton

6. SAFETY INSTRUCTIONS

The basic prerequisite for safe handling and disturbance-free operation of this electric tool is knowledge of the basic safety instructions. In addition, the accident prevention rules and regulations which apply in the user location must be adhered to, as well as the recognized rules of the trade with regard to safety and correct working methods.
It is not permitted to use the electric tool for other purposes than those intended by the manufacturer. Such use could give rise to unforeseeable risks.
Local working and safety rules and laws must always be followed. The same applies to regulations which apply to the environment.
Safety equipment must never by removed or bridged over.
When using oils, greases and other chemical substances, the safety regulations which apply to the particular product must always be observed! Contact with chemicals should be avoided as far as possible. Before it is permissible to work with these substances the instructions for use on the packaging must be read and followed. This applies for all chemicals, therefore also for cleaning media.
All notes and signs regarding safety and possible risks must be kept in a fully legible condition.

6.1. ILLUSTRATION OF SAFETY INSTRUCTIONS

The following symbols are used in the instruction manual:

Warning against possible danger of injury or danger to life for persons

Warning against possible damage to property or the environment

Warning against dangerous electrical voltage

Warning against hot surfaces

Ignoring these instructions can lead to serious damage to health, up to life-threatening injuries!

This symbol indicates important information

Hazardous to the environment

6.2. GENERAL SAFETY INSTRUCTIONS

This electric tool fulfils the basic EC safety and health regulations. Nevertheless, dangerous situations can arise.

All safety equipment must be maintained in perfect condition.

Always pay attention to moving parts. These can cause injury because of their movement or by sudden movement.

Only use the electric tool when it is in perfect condition from the technical point of view, and only use it for intended purpose while being aware of safety issues and risks, and paying attention to the instruction manual! In particular, have any disturbances which could have a negative effect on safety corrected immediately!

WARNING! It is essential to read all the instructions. Mistakes which are made while attempting to follow the below instructions can cause electric shock, fire and/or serious injury. The following term "Electric tool", refers to mains-powered electric tools (with mains cable) and battery-powered electric tools (without mains cable).

KEEP THESE INSTRUCTIONS IN A SAFE PLACE.

Work Area Safety

Keep your work area clean and well lit. Cluttered benches and dark areas invite accidents.

Do not operate power tools in explosive atmospheres, such as in the presence of flammable liquid, gases, or dust. Power tools create sparks, which may ignite the dust or fumes.

Keep bystanders, children, and visitors away while operating a power tool. Distractions can cause you to lose control.

Electrical Safety

Earthed tools must be plugged into an outlet properly installed and earthed in accordance with all codes and ordinances. Never remove the earthing prong or modify the plug in any way. Do not use any adaptor plugs. Check with a qualified electrician if you are in doubt as to whether the outlet is properly earthed. If the tools should electrically malfunction or break down, earthing provides a low resistance path to carry electricity away from the user.

Avoid body contact with earthed or grounded surfaces such as pipes, radiators, ranges and refrigerators. There is an increased risk of electric shock if your body is earthed or grounded.

Don't expose power tools to rain or wet conditions. Water entering a power tool will increase the risk of electric shock.

Don't abuse the cord. Never use the cord to carry the tools or pull the plug from an outlet. Keep cord away from heat, oil, sharp edges or moving parts. Replace damaged cords immediately. Damaged or entangled cords increase the risk of electric shock.

When operating a power tool outside, only use authorized cords for outdoor work. These cords are rated for outdoor use and reduce the risk of electric shock.

If operating a power tool in a damp location is unavoidable, use an earth leakage circuit breaker.

Use of an earth leakage circuit breaker reduces the risk of electric shock.

Personal Safety

Stay alert, watch what you are doing and use common sense when operating a power tool. Do not use tool while tired or under the influence of drugs, alcohol, or medication. A moment of inattention while operating power tools may result in serious personal injury.

Use safety equipment. Always wear eye protection. Safety equipment such as dust mask, non-skid safety shoes, hardhat, or hearing protection used for appropriate conditions will reduce personal injuries.

Avoid accidental starting. Be sure switch is off-position before connecting to power source, picking up or carrying the tool. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents

Remove any adjusting key or wrenches before turning the tool on. A wrench or a key that is left attached to a rotating part of the tool may result in personal injury.

Do not overreach. Keep a proper footing and balance at all times. Proper footing and balance enables better control of the tool in unexpected situations.

Dress properly. Do not wear loose clothing or jewelry. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewelry or long hair can be caught in moving parts.

Tool use and care

Do not force the tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.

Do not use tool if switch does not turn it on and off. Any tool that cannot be controlled with the switch is dangerous and must be repaired.

Disconnect the plug from the power source before making any adjustments, changing accessories, or storing the tool. Such preventive safety measures reduce the risk of starting the tool accidentally.

Store idle tools out of reach of children and do not allow persons unfamiliar with the power tool or these instructions to operate the power tool. Tools are dangerous in the hands of untrained users.

Maintain tools with care. Keep cutting tools sharp and clean. Properly maintained tools, with sharp cutting edges are less likely to bind and are easier to control.

Check for misalignment or binding of moving parts, breakage of parts, and any other condition that may affect the tools operation. If damaged, have the tool serviced before using. Poorly maintained tools cause many accidents.

Use the power tool, accessories and blades etc., in accordance with these instructions and in the manner intended for the particular type of power tool, taking into account the working conditions and the work to be performed. Use of the power tool for operations different from those intended could result in a hazardous situation.

Use clamps or other practical way to secure and support the work piece to a stable platform. Holding the work by hand against your body is unstable and may lead to loss of control.

Use only accessories that are recommended by the manufacturer for your model. Accessories that may be suitable for one tool may become hazardous when used on another tool.

Service

Only qualified repair personnel must perform tool service. Service or maintenance performed by unqualified personnel could result in a risk of injury.

When servicing tool, use only identical replacement parts. Follow instructions in the maintenance section of this manual. Use of unauthorized parts or failure to follow maintenance Instructions may create a risk of electric shock or injury.

6.3. ADDITIONAL SAFETY PRECAUTIONS FOR THE PSDMC 9414

Do not use the appliance in presence of flammable solids, liquids or gases. Sparks from the armature assembly or the brushes can cause a fire or explosion.

WARNING! Risk of injury from hot chips. Never touch the blade while the

machine is running, and keep away from all the injury-prone body parts.

Never lean on the machine. Machine can tilt and start unexpectedly and cause serious accidents.

Damaged parts must be checked and repaired before the machine is used.
Please check carefully the protection cover or any other parts in case they are damaged to determine that they are working properly according to their function.

The adjustment of moving parts, mounting and any other conditions that may affect the operation of the machine must be checked by a qualified service technician before the machine is put into operation.

All defective parts must be properly repaired or replaced.
Never run the machine unattended.
Don't leave the machine before the saw blade stops.
In case of maintenance or service use only original spare parts.

1. Workpiece has to be always fixed.
2. Check the direction of rotation of the saw blade.
3. Make sure that the blade is always sharp, as well as unhindered and vibration free running.
4. Before actuating the safety switch, return the machine to its default position. The saw blade may not touch the work piece.
5. Never start cutting before you reached full load speed.
6. Never put your hands in the work area access if the machine is connected to the socket.
7. Protect the machine against humidity.
8. Wear Safety glasses, gloves and hearing protection.

Keep the labels and nameplates. These contain important information. If they are unreadable or missing, you need to obtain a replacement.

7. START-UP

After unpacking the machine from the packaging, verify if the content is complete. Place the machine on a surface so that it is solid and as level as possible. Loosen the locking bolt by gently pulling the stopper handle (fig.13-A) and twisting it while pressing down on the yellow saw head.
Slide the 2 vice clamps onto the clamping bar (fig. 15). Then mount the assembled clamping bar on the machine base.

Install the saw blade according to the instructions in chapter 8.6, "Replacing the Saw Blade".

8. OPERATION

8.1. ADJUSTING THE TENSIONING DEVICE

It is important for the safe operation of the circular cold saw as well as for good cut and a long life of the machine that the work piece is clamped securely.

8.2. WORK PIECE CLAMPING

Put the work piece between the clamping plate (fig. 1-B) and the rear chuck jaw (fig. 1-A). Make sure the the vise fixation (fig. 3-A) is engaged. Turn the clamping handles (fig. 1-C) clockwise until the work piece is fully fixated.

Make sure the clamping system is set to the correct height for the material to be clamped. (see 8.3)

To release the work piece, turn the clamping handles (1-C) counter-clockwise and release the vise fixation (3-B)

8.3. ADJUSTING THE HEIGHT OF THE CLAMPING SYSTEM

To adjust the height of the clamping system, loosen the tightening screws (fig. 4-B) on both sides of the machine base.
Then lift or lower the clamping system to the desired height. Fasten the tightening screws again.

Always make sure that the clamping plates (fig. 1-B) align with the center of the work piece, especially for round profiles and pipes (fig. 2).

8.4. ADJUSTING THE MITER ANGLE

To adjust the miter angle, grab the handle attached to the miter base (fig. 5-A) and turn the base with the attached saw head left or right. Use the scale below the miter base (fig. 5-B) to determine the proper angle.

8.5. ADJUSTING THE SAW HEAD POSITION

In order to optimize the cutting capacity and angle of entry into the material, you can adjust the position of the saw head on a 3-point sliding rod (fig. 6).
To do so, lift the locking pin (fig. 6-A) and slide the machine head. Ten release the locking pin and make sure that the saw head locks in place at the desired position.

8.6. REPLACING THE SAW BLADE

The blade can be replaced easily by following these instructions:

Step 1
Pull the power supply plug from the socket. Next, put the plug aside so that it cannot be plugged in accidentally.

Step 2
Loosen the butterfly screw (fig. 7-A), turn the small cover (fig. 7-B) to the rear, pull up the vibration dampers (fig. 7-C), and lock them by turning them to the side.

Step 3
Push in spindle lock (fig. 8-A). Grip the screw with the hexagonal wrench and loosen the screw. Turn the face cover up and carefully remove the outer flange and saw blade (fig. 9).

Step 4 (fig. 9)
Push the new blade carefully onto the axle shaft, ensuring that the rotation direction indicated on the saw blade runs counter-clockwise and the saw blade is grease-free. Also ensure that the blade rotates in the direction indicated by the arrow on the pro- tective cover. Next, replace the external flange and the screw and tighten firmly

Step 5
Turn the small cover back to its original position and tighten the butterfly screw (fig. 7-A). Move the vibration dampers back to their original position by turning them (fig. 7-C).

Step 6
Loosen the spindle lock and ensure that the saw blade can rotate freely (fig. 8).

8.7. SAW BLADE GUIDES

Regularly spray the spots where the saw blade comes into contact with the saw blade guides with lubricating oil spray. Since the vibration dampers are consumption parts, they should be replaced when they are worn down by approx. 3 mm to a residual value of 1 mm.

8.8. MAINTENANCE

Replacing the carbon brushes: (fig. 10 and 11)

1. Replace the carbon a brush when they are worn down to approx. 1/4" (6 mm) or spark formation occurs. Both brushes must be replaced at the same time.
2. Remove the worn brushes, insert the new brushes and close the cover again.

The carbon brushes must be replaced by an electrician!

8.9. MATERIALS

- Rust and acid-resistant steel
- Mass structural steel
- Casting (SML Pipes)
- Water and gas pipes
- Angle bars, U profiles and double T profiles
- Plastic-encased pipes

8.10. CUTTING TECHNIQUE

Step 1: The circular cold saw can cut at any angle from -45° to +45°.
Position the work piece between the clamping plate and the setting up piece and ensure that the clamping fixture is tightened with the clamping handle in clockwise direction.
Next, insert the work piece and tighten the clamping fixture firmly.

Step 2: On the handle, there is a safety switch (fig. 12). In order to turn on the machine, push the arm lock (A) simultaneously with the switch handle (B). Only then, the handle can be moved downwards.
Ensure that the motor runs load free for a few seconds to reach the maximum operating speed before you start sawing.

Step 3: Cut slowly and evenly. Lift the handle off the work piece and release the switch to switch off the saw. Release the handle only after the saw blade comes to a total standstill.

8.11. TRANSPORTING THE MACHINE

If you want to transport the machine, pull the stopper handle (fig. 13-A) while lowering the operating arm to the lowest position. Now turn the stopper handle and let go to let the locking bolt engage.

The machine should be carried by two people for transport.

9. STANDARD EQUIPMENT

1. Carbide tipped saw blade 90T (14"x.086"x1") (Part no. 600570)
2. Hexagonal wrench and jig plate
3. 2x "K" clamping system (1209471)
4. Thinfix clamp (Part no. 600546) (fig. 14)

9.1. OPTIONAL SAW BLADES & ACCESSORIES

1. 120T carbide saw blade for very thin steel and other materials except SML (Part no. 600512I)
2. 90T carbide saw blade for stainless steel (Part no. 600570NSF)
3. 90T carbide saw blade for steel and other materials except SML (Part no. 600570)
4. 72T carbide saw blade for steel and other materials except SML (Part no. 600580)
5. 60T carbide saw blade for steel and other materials except SML (Part no. 600590)
6. 60T carbide saw blade for SML pipes (not for steel) (Part no. 600591)
7. 66T carbide saw blade for mass steel (not usable for stainless steel and SML) (Part no. 600595)
8. 96T carbide saw blade for aluminum (Part no. 600594)

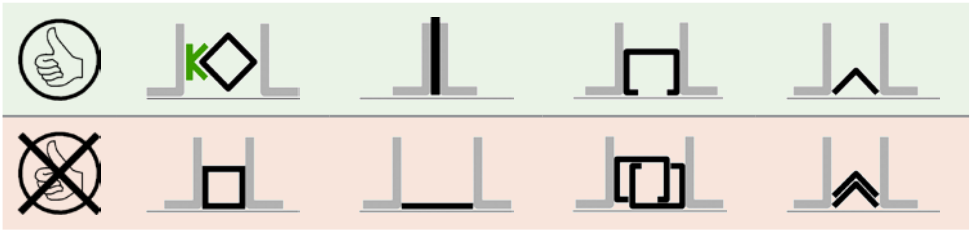
10. RECOMMENDATIONS

In order to achieve an optimal saw blade performance, please read the following recommendations:

1. Fasten the work piece well
   First check by hand if the work piece is safely and solidly attached
   - Clamp and cut pipes and round materials individually only.

2. At the beginning insert the carbide tipped saw blade carefully and gently into the material and then continue sawing quickly.
3. Carefully remove chips deposited between the carbide teeth during the work before continuing to work.
4. Check the carbide saw blade regularly for abrasion and broken carbide teeth. If a blade becomes blunt due to wear and broken teeth, replace it with a new one.
5. Always wear safety goggles when sawing.
6. Never reach into the running saw with your hands. Keep clothing away.
7. Watch for the rotation direction when mounting the saw blade.
8. Have saw blades sharpened only by specialised sharpening services.
9. Saw blades can be re-sharpened 5 times on average.

11. CORRECT CLAMPING / CUTTING PROCEDURE



Always use the (included) "K" clamping system (1209471) when cutting square tubes.

12. QUOTATION

When returning a defective machine for repair with cost estimate. We charge a handling fee of 50$, but does not apply if a repair order or purchase of a new machine is given.

13. SPARE PARTS

For current spare parts list with order numbers please visit our website:
www.jepsonpower.com

14. WARRANTY

The warranty time (warranty according to the commercial code) is 12 months from the day of sale to the end consumer.
It covers and is limited to the free replacement of the defective parts or the free repair of defects that are demonstrably due to the use of imperfect materials during production or due to assembly errors.
Incorrect use or start-up and unauthorized installations or repairs not specified in the operating instructions void the warranty. Parts that are subject to wear are also excluded from the warranty. We expressly reserve the right to make decisions on the warranty application. The warranty is void if the device is opened by a third party. Transport damages, maintenance work as well as damage and malfunctions due to insufficient maintenance are not covered by the warranty.
For warranty claims, the proof of purchase of the device must be given by presenting the delivery note, bill, or cash receipt.
As far as it is legal, we assume no liability for any personal, material or consequential damages, in particular if the device is used differently than for the purpose indicated in the operating instructions, not installed or repaired according to the operating instructions, or repairs were executed by a layperson.
We reserve the right to perform repairs or maintenance over and above the ones specified in these operating instructions at the factory.

The quality and safety of the JEPSON POWER circular cold saw depends on the exclusive use of original JEPSON POWER saw blades or saw blades with the same cutting width, blade diameter and recommended cutting speed. The use of other saw blades may damage the machines.

The original JEPSON POWER saw blade fulfils all requirements of the TÜV examination (several inspection offices) and is therefore certified by these inspection offices. In case of use of saw blades with dimensions that differ from the original JEPSON POWER saw blades, the manufacturer assumes no liability.

The warranty excludes:

- Wear parts such as switches, flanges, carbon brushes, supportings and cutting tools (saw blades, carbide inserts, drills and abrasive) as well as electronic units.
- Other parts that are subject to wear through use or natural wear and tear.
- Tool failure due to non-compliance with the instruction manual, unconventional use, abnormal atmospheric conditions, improper operating conditions, overload, or lack of service or maintenance.
- Tool failure due to replacement parts or additional parts that are not original Jepson Power parts.
- Machines to which changes or additions have been made.

JEPSON POWER® GERMANY
Leading Through Innovation since 1984

METAL CUTTING MITER SAW

PSDMC 9414

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