

Instruction Manual

DRY MITER CUTTER DMC 9410ND



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1 EG-Conformity Declaration

(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:

- Name: Cold Circular Saw DRY MITER Cutter DMC
- TYPE.: 9410ND
- Serial No. :
- Manufacturing Date: 2012

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

- 2006/42/EG Machine directive
- 2006/95/EG Low Voltage Directive
- 2004/108/EG Electromagnetic Compatibility

- EN 55014
- EN 61000
- EN 61029-2-4: 2011

Pierre Michiels, Managing Director
 Name, Position



 Brussels, 01.07.12

2 Technical data

Voltage	230V /50 Hz
No load speed	1600 min -1
Power input	1500W
Saw blade diameter	255 mm
Net weight	19 kg

Cutting Capacity 90°	Ø 70 mm Square 70 x 70 mm Rectangular 100 x 70 mm without vise
Cutting Capacity 45°	Ø 60 mm Square 60 x 60 mm Rectangular 100 x 70 mm without vise

3 User Instructions

Notes for the customer

The instruction manual includes important instructions as to how to operate the plant 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.

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 or CS Unitec. We ask for your understanding that further copies are subject to charge.

Jepson Power GmbH
Ernst-Abbe-Straße 5
D-52249 Eschweiler
Germany

All rights are expressly reserved. Duplication or transfer on to third parties in any form whatsoever is not allowed without our prior written permission.

Abbreviations

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

4 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 recognised 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 be 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.

4.1 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

Warning against possible damage to property or the environment



Caution

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



4.2 General Safety Instructions

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



Warning

All safety equipment must be maintained in perfect condition.



Warning

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



Warning

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).



Warning Caution

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



Warning Caution

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.

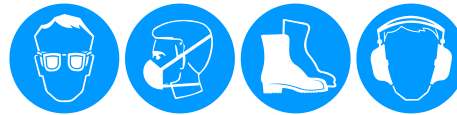
When operating a power tool outside, only use authorized cords for outdoor work. These cords are rated for outdoor use and reduce the risk of electric shock.

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 before plugging in. Carrying tools with your finger on the switch or plugging in tools that have the switch on invites accidents..



Warning Caution

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 jewellery. Keep your hair, clothing and gloves away from moving parts. Loose clothes, jewellery or long hair can be caught in moving parts.

Tool use and care

Do not force 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.

Maintain power tools. 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.



Warning Caution

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.



4.3 Specific Safety Instruction

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.



Warning

Never put 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.



Warning

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. Leave the machine not 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. The circular saw from the work stand before the safety switch is operated.
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.



Attention

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

MAINS CONNECTION + EARTH

In case of malfunction or disruption the grounding provides a path of least resistance for electric current to reduce the risk of electric shock. The machine is equipped with a power cord that has an equipment ground wire and a grounded plug. The plug must be plugged into its socket. In accordance with all local laws and regulations, has been properly installed and grounded. Do not change the provided plug. If does not fit the socket, a proper socket has to be installed by a qualified electrician.

Do not operate the Machine in a humid area!

5 Function

5.1 Purpose

WARNING:

The machine should not be modified or changed, such as for a different type of use, as specified in this manual. The user is liable for any damages or injuries caused by improper use.



Warning

The DRY MITER CUTTER 9410ND is suitable for cutting strips, tubes and profiles made of steel, copper, brass, aluminum, plastic and composite materials.

5.2 Packing Out

Remove the machine and all loose parts from the box. Keep all packaging materials until you have checked the machine and have satisfied taken into operation.

1. DRY MITER CUTTER
2. Second blade 255/60Z
3. Two vices
4. Allen key

Start to work with the machine only after you have read these operating instructions carefully and understood. From the factory side already set is the cutting depth and the pivot point (distance from the sliding stop motor spindle) See table sliding stop marker on the circular saw table.

5.3 Fixation

For stationary use of the saw fixation holes are provided for fixing the saw, respectively two in the front and rear area.



5.4 Fitting the saw blade / blade change



Nr. 1



Nr. 2



Nr. 3



Nr. 4



Nr. 5

Proceed as following:

- a) unplug from the socket.
- b) Remove screw # 1 on saw protection and remove protection cover and place back. (1)
- b) Push the spindle lock and rotate blade until it clicks (transmission is blocked) (2).
- c) blade screw with the Allen wrench in the direction of rotation out to the right (3) Remove the flange (4) and remove the blade. (5)
- d) Place the new blade on the spindle and make sure that the displayed rotation on the blade is clockwise. Place the flange on the spindle and tighten the Allen screw in clockwise rotation again.
- e) Put the protection cover back in place and tighten the screws. (1)

WARNING:

After changing of saw blade always make absolutely sure that the spindle lock is release to prevent any transmission damage!



Warning

5.5 Angle adjustment for miter cut



Nr. 1



Nr. 2

Conversion to jack rafter is prohibited on the 9410ND!



ATTENTION!

Put the Knob a half turn to the left (1), with the thumb locking bow down (2). The saw is now swiveled to both sides up to 45°. Adjust the desired miter angle on the scale. For common angle precisely locating points are available.

5.6 Sliding stop



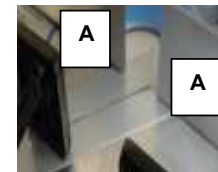
The sliding stop (A) is already exactly set to the angular precision spindle motor by the manufacturer. See label on the round table (pivot). To reach even a bigger cutting capacity, the slide stop can be pushed back by loosen the 4 Allen screws.

The stopper has also displaced stop surfaces on both sides. Advantage: for unstable and thin-walled sections these stopper surfaces can be adjust close to the saw blade.

This will guarantee a clean cut and no blocking of the saw blade by deviant back material.



ATTENTION!



Before you make the miter cut, keep sure that the slide stop is in the correct position. (A)

5.7 Clamping System

Das Schnellspannsystem erlaubt ein zügiges Vorjustieren, um zu vermeiden, dass je nach Werkstückgröße die Spannvorrichtung langwierig über den Spanngriff in Position werden muss.

The quick-release system allows a rapid pre-adjustment in order to avoid that depending on the size of the workpiece the clamping device must be rotated via the lengthy tension handle in position.

Turn the thumbscrew on (1).

Pre-adjust now the tensioner without threads in 3 different positions. Fixation is done with the threaded rod by turning the tension handle. (1 + 2)



1



2

WARNING: Before starting the machine, Please make sure that the material is clamped firmly.



Warning



Article ID: 600653

Optional adapter for clamping of round and square tubes

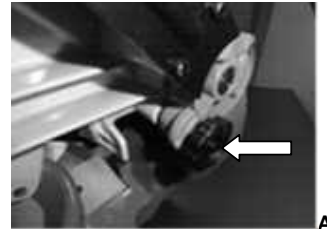
Ø 30mm - 70mm

5.8 Start and Stop the machine

Make sure that the mains voltage is the same as that on the name plate of the machine indicated and that the switch is off before you connect the device to the mains.

Transportation lock:

The transportation lock keeps the saw arm, and the saw head with the blade in the lowest position (A).



A

To start the machine:

First: Press the safety lever to release the saw head. (1A) Start it. Keep the saw head down about 1 cm (1B)



1A



1B

On the switch handle is a safety button is (2).



(2)



(3)

To start the motor, the safety button and the on-off switch to be pressed simultaneously. (2 + 3)

To turn off:

Release the on / off switch (3) and security button, than the motor is stopped.

Keep the saw head back up the saw blade guard will automatically close and lock the saw head in its final position.

WARNING! Always turn off the machine and unplug from the socket immediately after use to prevent accidents caused by untrained personnel.

6 Maintenance and Repair

6.1 Cleaning of the machine

Blow periodically from all vents with dry compressed air. All plastic parts should be cleaned with a soft damp cloth. NEVER use solvents to clean plastic. They could possibly dissolve or otherwise damage the material. Wear safety glasses while using compressed air.

6.2 Lubrication

Choose to replace the gear grease every 100 hours by a qualified service technician.

6.3 Replacing carbon brushes:

Replace carbon brushes when they wear down to about 1/4 "(6mm) or sparking will occur. Both brushes should be replaced at the same time. Remove the brush holder caps with a screwdriver. Pull out the worn brushes, replace with the new brushes and secure the brush holder caps.



To maintain product safety and Reliability, repairs, any other maintenance or adjustment should be performed by Authorized Service centers, always use original Jepson replacement parts.

7 Standard Accessories

- Saw blade 255/60Z

Optional accessories:

- Saw blade 255/66Z for stainless steel

8 Recommendations for optimized saw blade performance

For an optimized saw blade performance please read the following recommendations:

1. Check that the workpiece is firmly fixed.
2. First check by hand, if the workpiece is fixed and stable. Clamp and cut tubes and round material only individually.
3. Second introduce at the beginning saw blade carefully and gently into the material and continue rapid with sawing.
4. Chips, which are deposited during the work between the carbide teeth, remove carefully before further work.
5. Please check the carbide tipped saw blade regularly for wear and teeth chipping. Replace the saw blade in case of wear or chipping by a new one.
6. Always wear safety glasses during work.
7. Never reach with hands in the running saw.
8. Keep attention that clothes away.
9. Keep Attention by the blade assembly on the direction of rotation.
10. Resharpener the saw blades always by professional resharpener services
11. Saw blades can be sharpen on average 5 times

9 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 unauthorised 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 warranty excludes wear parts such as: Switches, flanges, carbon brushes, supportings and Cutting tools (saw blades, carbide inserts, drills).

The quality and safety of the CS Unitec JEPSON circular cold saw depends on the exclusive use of original CS Unitec JEPSON saw blades. The use of othersaw blades may damage the machines.

The original CS Unitec JEPSON saw blade fulfills all requirements of the TÜV examination (several inspection offices) and is therefore certified by these inspection offices. In case of use of saw blades of foreign makes, the manufacturer assumes no liability.

10 Quotation

When returning a defective machine for repair, there is an estimation fee of \$30. This fee is waived with approval of repairs or purchase of a new replacement machine.

11 Spare parts

For current spare parts list with order numbers please visit our website:

<http://www.csunitec.com/pricelist>