

UNIVERSAL DUST EXTINTION MACHINE FOR DIAMOND CUTTING DISC

INSTRUCTION MANUAL

ENGLISH

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1.- PRELIMINARY CONSIDERATIONS

1.1.- THERE MUST BE AT LEAST ONE COPY OF THIS MANUAL AVAILABLE TO ALL PERSONS USING THE MACHINE.

1.2.- FOR YOUR PERSONAL SAFETY AND FOR PROPER USE OF THE MACHINE, READ THIS INSTRUCTION MANUAL CAREFULLY.

1.3.- PROPER HANDLING OF THIS MACHINE NOT ONLY INCREASES YOUR PERSONAL SAFETY, BUT ALSO PROLONGS THE LIFE OF THE PRODUCT.

1.4.- IT IS PROHIBITED TO START THE MACHINE WITHOUT THE PORTABLE RESIDUAL CURRENT DEVICE (PRCD).

2.- DESCRIPTION OF THE UNIVERSAL DUST EXTINCTION MACHINE (UDEM).

Its purpose is to supply the diamond disc of the cutter with sufficient water to trap the powder produced by the cutting action.

The cutter, whose original work and safety conditions are in no way altered, is fitted with a blade GUARD, which incorporates a water DIFFUSOR. The spray is connected by a hose to the pressure generating equipment.

The machine (UDEM), apart from the guard and its connecting hose, consists of a metal enclosure housing a 10 litre plastic water tank. Through a filter for solid impurities, the water is absorbed and sent to the spray driven by an electromagnetic pump.

On the front of the metal enclosure are located the water connections, the electrical outlet for the cutter, the on/off switch and the portable residual current device (PRCD).

The metal enclosure is easily moved by a transport handle located at the top.

3.- RESPONSIBILITIES OF THE PURCHASING COMPANY

The company that purchases the machine must:

- 1.- Make a copy of the Instruction Manual available to all machine operators.
- 2.- Ensure compliance with all the safety instructions indicated in this manual and with all the applicable regulations.
- 3.- Provide operators with full training programmes to guarantee safe handling of the machines.
- 4.- Use this machine exclusively for the purposes indicated in this manual.

4.- INDICATIONS TO THE OPERATOR(S)

The operator(s) must:

- 1.- Read these instructions carefully.
- 2.- Follow the instructions in this manual with regard to use, maintenance and cleaning of the machine.

The operator(s) must NOT:

- 1.- Make alterations to the machine without prior consent from the manufacturer.
- 2.- Handle the machine incorrectly or deactivate the safety devices included in its design.

Warning: Incorrectly operating safety devices can cause risk of serious injury.

- 3.- Use this machine for purposes other than those for which the manufacturer has designed it, which are indicated in this manual.

5.- TECHNICAL FEATURES

Enclosure dimensions (Width/Height/Depth) Weight Kg. empty	(240/400/350) 10 Kg.
Liquid tank capacity	10 Litres
Power Point	230V - 50Hz - 16 A - IP55
Portable residual current device	230V - 16A - 10mA-IP55
Electromagnetic pump	230V - 50Hz - 0,42A
Max. flow	9.5 l/min.
Max. drive height	3 m.
Max. pressure	2 Bar
Power	40 W - 0.05 HP
Guard sizes (Disc diameters in mm.)	230 - 180 - 125 - 115

Table 1.-Technical features

6.- INTENDED CONDITIONS OF USE

6.1.- Uses intended by the manufacturer

The **UDEM** is designed to be used in RECTILINEAR CUTTING operations with diamond discs and in granite materials, cement derivatives, clays, etc., i.e. in any cutting operations which by their nature PRODUCE DUST.

6.2.- Safety instructions

As well as those provided additionally, you should follow those indicated by the disc cutter manufacturer, which is in no case DINACES, S.L.

Warning: The manufacturer bears no responsibility for any consequences arising from failure to comply with the above actions.

6.3.- Electrical installation

For the operation of this machine, a 230 V mains power supply is required.

The power point has a three-position selector-switch; the centre position allows you to cut the power supply when it is necessary to carry out maintenance and cleaning operations, etc.

The electrical installation to which the machine is connected is equipped with a differential protection with a sensitivity of 10 mA.

Warning: Both the electrical installation and the subsequent repair of the switchgear thereof must be carried out by qualified staff.

In no case must the operator manipulate the electrical components of the machine.

7.- WORK STATION(S) TO BE OCCUPIED BY THE OPERATOR(S)

This machine is designed and manufactured to be handled by a single operator in accordance with the instructions established by the cutter manufacturer.

8.- INSTRUCTIONS FOR USE

8.1.- Positioning and placement of guards on the disc cutter

1º- For HORIZONTAL CUTTING, position the original guard of the cutter (Fig. 1, 2 and 3)



Figure 1

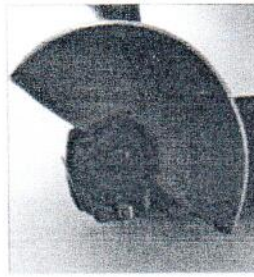


Figure 2



Figure 3

For VERTICAL CUTTING, position the original guard of the cutter (Fig. 4, 5 and 6)

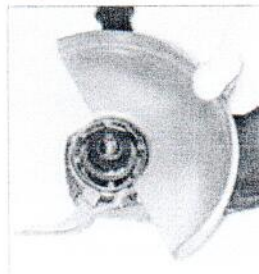


Figure 4

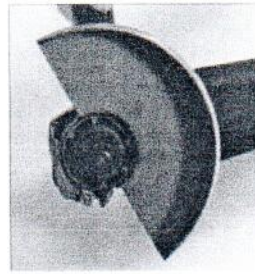


Figure 5



Figure 6

2º- Position the UDEM guard and fasten it with the screw as indicated in (Fig. 7, 8, 9 and 10).

Before placement, we recommend you to clean the debris with a brush.



Figure 7



Figure 8



Figure 9



Figure 10

3°.- Depending on the cutting operation to be performed, the guard flap must be positioned as indicated: HORIZONTAL CUTTING (Fig. 11 and 12) VERTICAL CUTTING (Fig. 13 and 14).



Figure 11



Figure 12

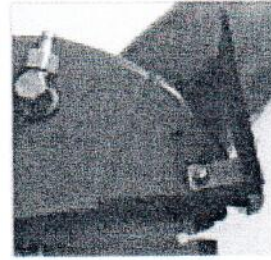


Figure 13



Figure 14

4°.- Connect the quick connector of the hose to the spray located on the guard (Fig. 15) and adjust the water flow according to the needs of the job by using the adjustment valve (Fig. 16).

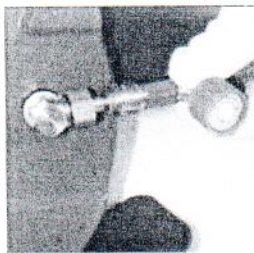
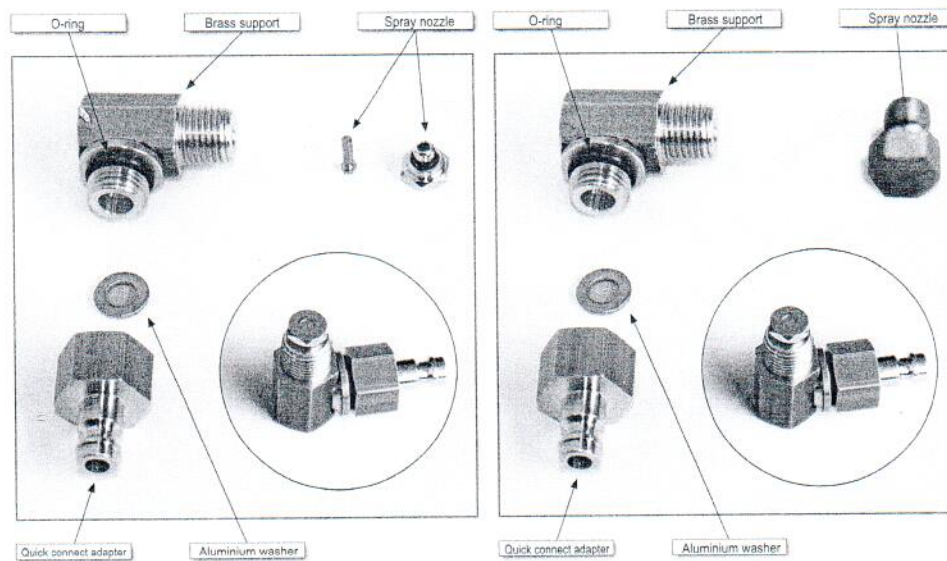


Figure 15



Figure 16



8.2.- Preparation of the electric pump

Warning: BEFORE HANDLING THE MACHINE, UNPLUG IT FROM THE MAINS

1°.- Fill the removable tank (Fig. 18) and connect the machine to the mains.



Figure 18

2°.- Turn on the portable residual current device (PRCD) by pressing the green button. The indicator light will come on (Fig.19)

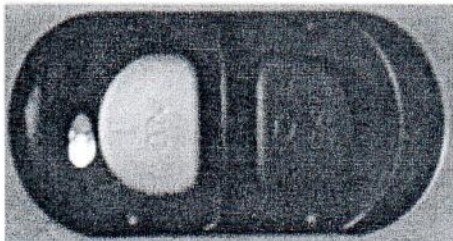


Figure 19

3°.- Turn on the electric pump with the switch (Fig.20) in (MAN) position until a constant water jet comes out. Then place the switch in (AUT) position. The machine is now ready to operate, automatically turning the water jet on and off each time we turn the cutter on or off.

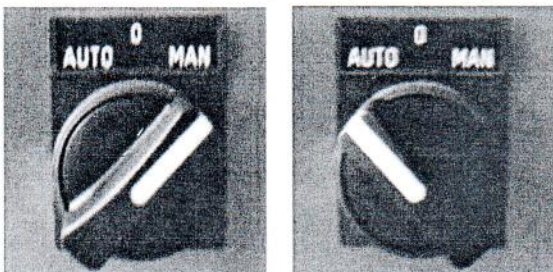
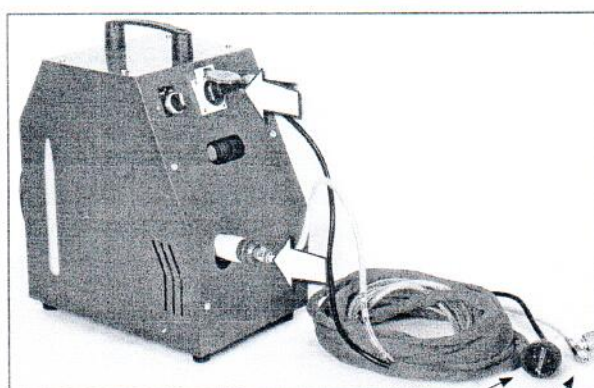
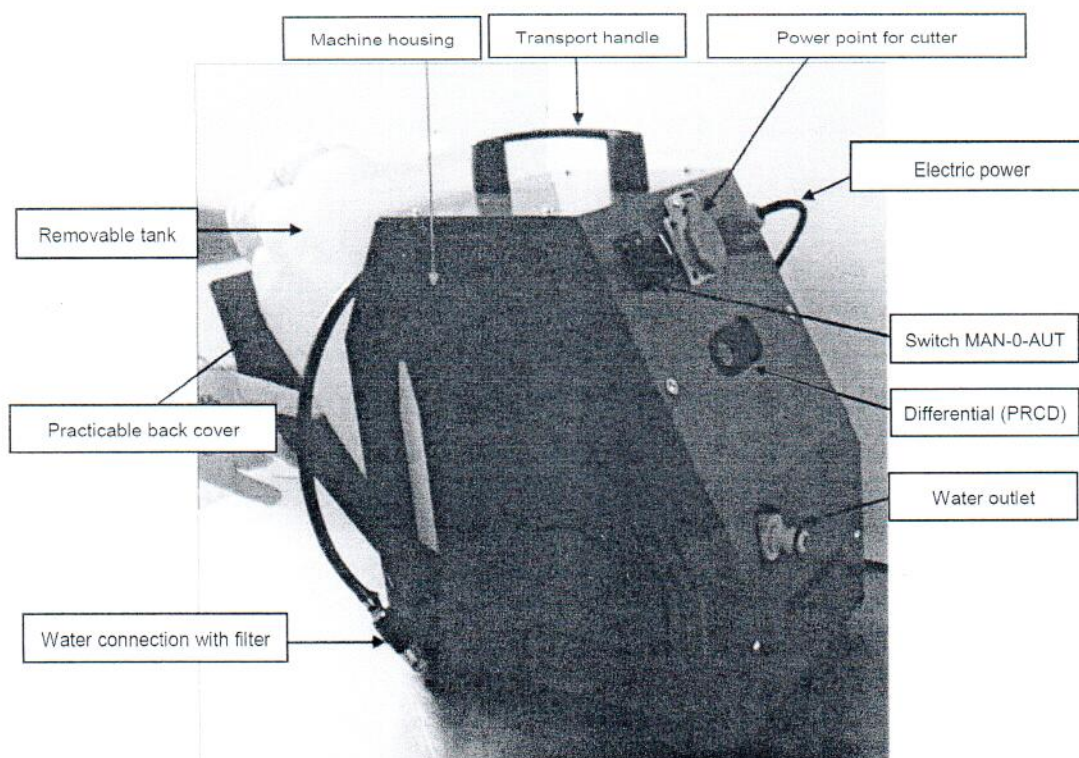
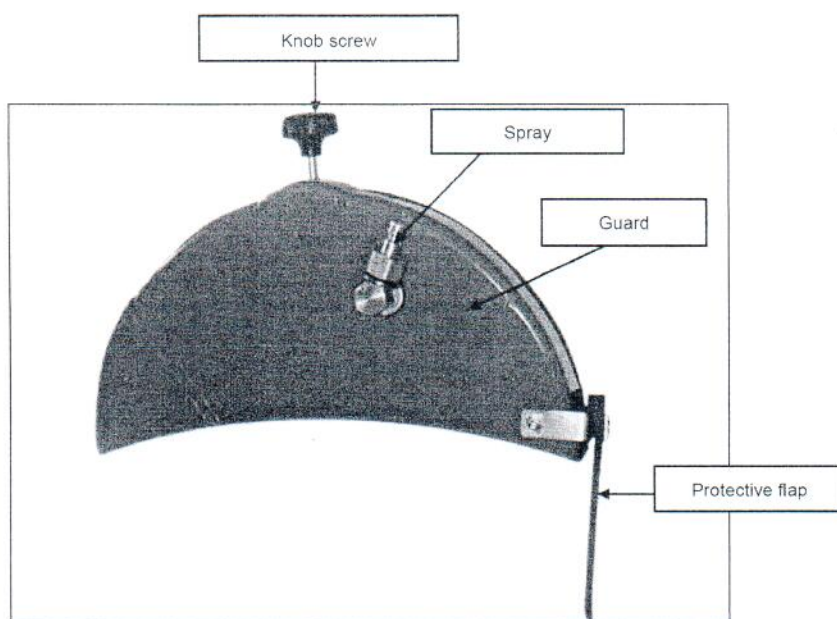
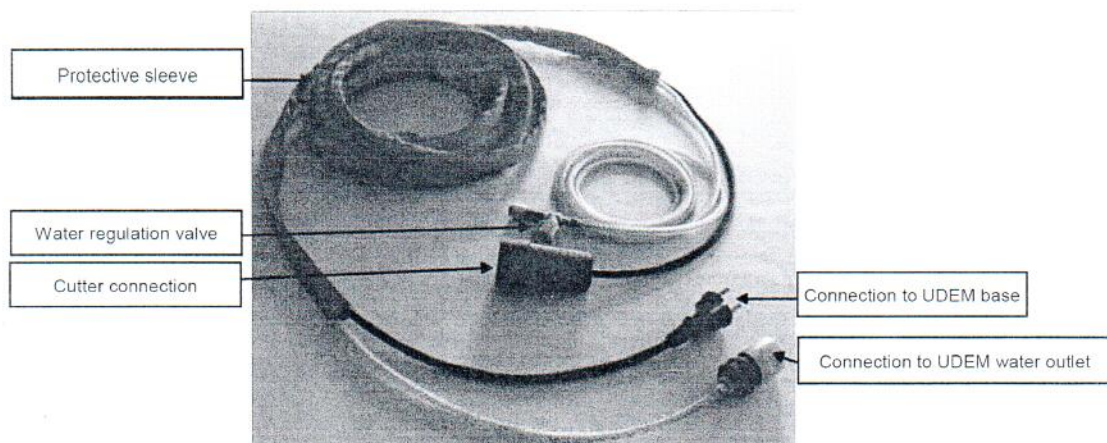


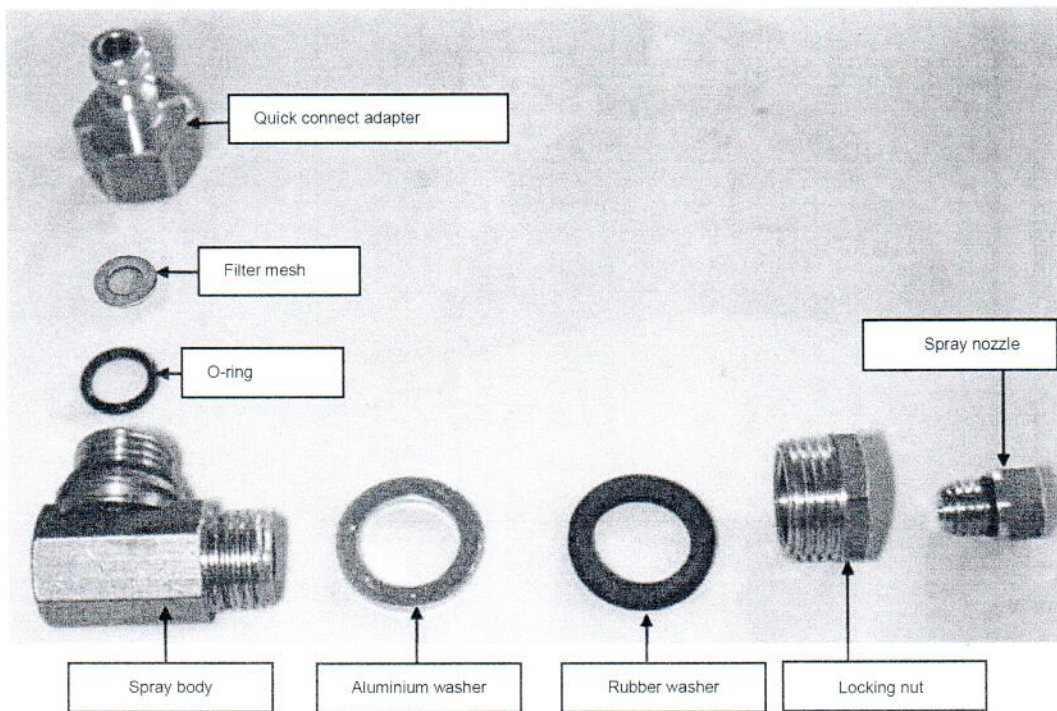
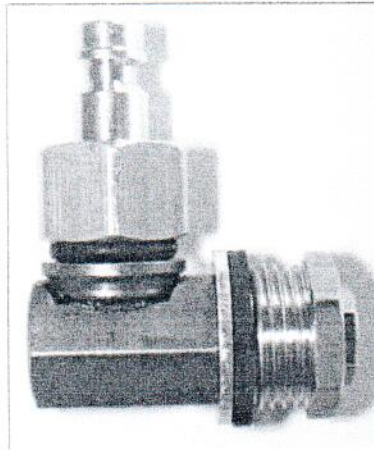
Figure 20

9.- COMPONENTS (Position and name)





SPRAY UNIT



ATTENTION: When performing maintenance, handle with care the nebulizer. Don't press hard. Can break the thread.

NEW • NUEVO

Protector with new spray nozzle

Protector con nueva boquilla nebulizadora

**Minimun flow
no splashing • more security**

Minimo caudal • sin salpicaduras • más seguridad

**New filter stainless steel
316 - 150 micron**

Nuevo filtro en acero inoxidable 316 - 150 micras

Ø 0,70 flow/caudal: 0,240 LPM - 0,0647 GPM

Ø 0,80 flow/caudal: 0,280 LPM - 0,080 GPM

Working pressure: min 50,75/72,5 PSI - max 145/174 PSI

Presión de trabajo: min 3/5 BAR - max 10/12 BAR

