

**MODEL TRIMMER**

**MT-Dry**

**INSTRUCTION AND MAINTENANCE MANUAL**



## **1. DESCRIPTION**

MT-Dry is a machine used to carry out model-trimming operations in the dental field. It has been expressly designed to work at high-average speed (2.800 rpm) in order to assure a good smoothing effect of the surface whilst reducing the possibility for the abrasive disc to gum.

A 10° inclination of the housing allows to improve visibility on the working area and ensures at the same time the most correct water outflow. The working plane features four different positions (85° - 90° - 95° - 100° in relation to the disc surface) as well as trimming guides.

The abrasive disc is diamond-coated, complying with FEPA regulations, featuring high cutting power and fit for extensive use.

Safety during operation is assured by the adoption of an electromagnetic safety switch preventing the machine from starting up accidentally after a voltage drop.

## **2. TECHNICAL REFERENCE REGULATIONS AND TEST PROCEDURES**

The model trimmer is mass-manufactured by DENTALFARM in compliance with technical and safety rules in force, as provided for by the 2006/42/EEC Community Directive on machinery.

Careful inspection and full routine testing is carried out singularly on each machine which is furtherly tested by an automatic test installation assuring compliance with the fixed limits.

## **3. GENERAL PRECAUTIONS**

- Carefully read the present manual before carrying out any starting, running or maintenance operation on the machine
- Safety of the User depends on individual skills and ability, on common sense and on the caution during use; for this reason, it is of utmost importance to be familiar with the location and function of the operating controls
- The final User of the machine is a skilled and well trained professional, not merely an occasional worker
- Regularly check the parts which tend to wear out due to the specific working conditions
- Do not tamper the electrical wiring system of the machine
- The built-in safety mechanisms shall in no way be removed or modified
- Do not allow unauthorised persons to try to repair the machine
- Do not utilize petrol, solvents or any other inflammable fluids to clean some parts of the machine – use exclusively non-toxic and non-inflammable products available on the market for these specific purposes.

## 4. INSTALLATION INSTRUCTIONS



Installation of this machine is quite easy, but must be carried out paying utmost attention in order to avoid any mistake which may originate problems during operation, inconveniences or even damages.

1. Place the machine, having considerable weight and size, on a suitable support table (preferably close to the right side for an easier connection of the drain pipe)
2. Connect one end of the feeding cable (30) to the socket located on the rear of the unit and the other end to an approved 220v AC - 50Hz socket with ground connection
3. Plug the suction unit into the rear socket so that suction can start automatically once the model trimmer is switched on
4. Connect the extractor pipe to the outlet manifold of the abrasive disc protection compartment and the other end to the suction and filtering system.



We remind that the working process originates dust particles which in no way must be either inhaled or freely wasted: **it is compulsory to filter the residues**, then connect the machine to a suitable and efficient filtering system.

5. Screw the working plane adjusting knob (13).

## 5. INSTRUCTIONS FOR USE

1. Operate the white electromagnetic switch placed on the base to switch on the machine
2. Ensure that the extraction system is operating (unless this is automatically connected).
3. Adjust the inclination of the working plane
4. Delicately push the pattern against the surface of the rotating disc, eventually following the angled trimming guides



**The abrasive disc is the only part susceptible to cause damages, therefore utmost care must be paid during operation. Never bring your hands too close to the disc during operation and avoid grinding too small components which are particularly hard to be hold and they could get entangled or forced in such a way to endanger your fingers.**

5. Once you have finished your work, switch off the machine by operating the proper switch; the motor is no more fed with current, but the disc will continue turning for a few seconds due to the inertial force.

## 6. MAINTENANCE

 <b><u>ATTENTION:</u></b>	Before carrying out any maintenance operation inside the machine or any technical modification affecting connections, unplug the electric cable from the socket and close the water inlet faucet; the machine will be completely cut out from the electric wiring and water system. If you still have any doubts, difficulties or if any possibility of mistake still exist, kindly contact our Technical Service to avoid any risks or damages.
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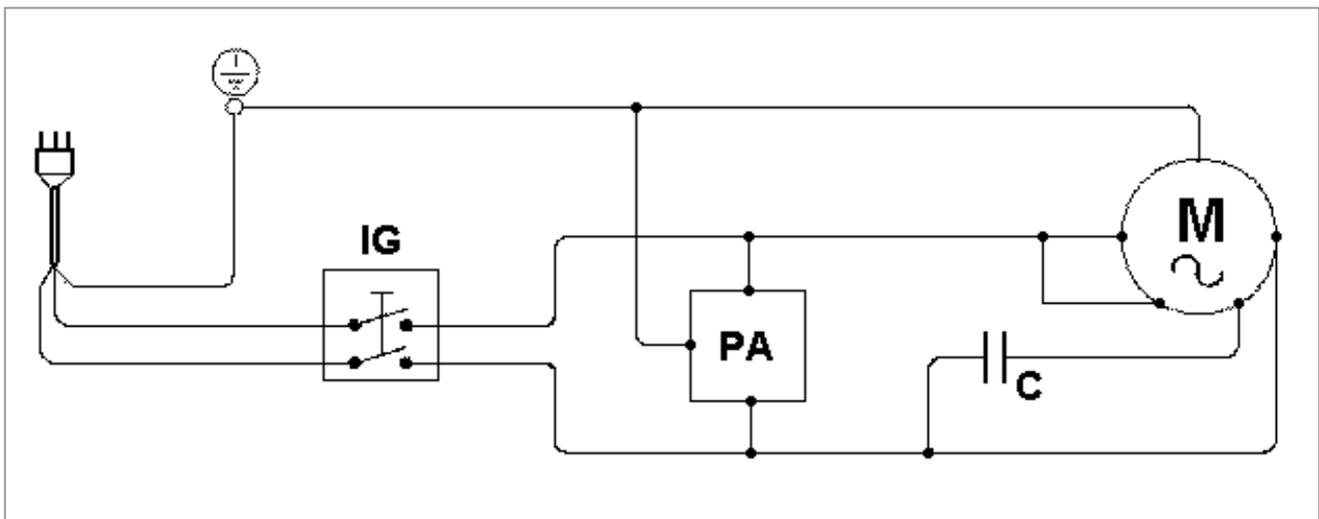
### Replacement of the abrasive disc

The abrasive disc, even if made in high quality material, will inevitably wear out and it must be regularly replaced. Loosen the three knobs closing the front part of the disc compartment. Unscrew the screw fixing the disc to the dragging plate and remove the worn out disc.

Clean the compartment from any residues and assemble a new disc. Clean the internal part of the cover and reassemble it. Fit in the three knobs and tighten firmly to assure the watertight seal.

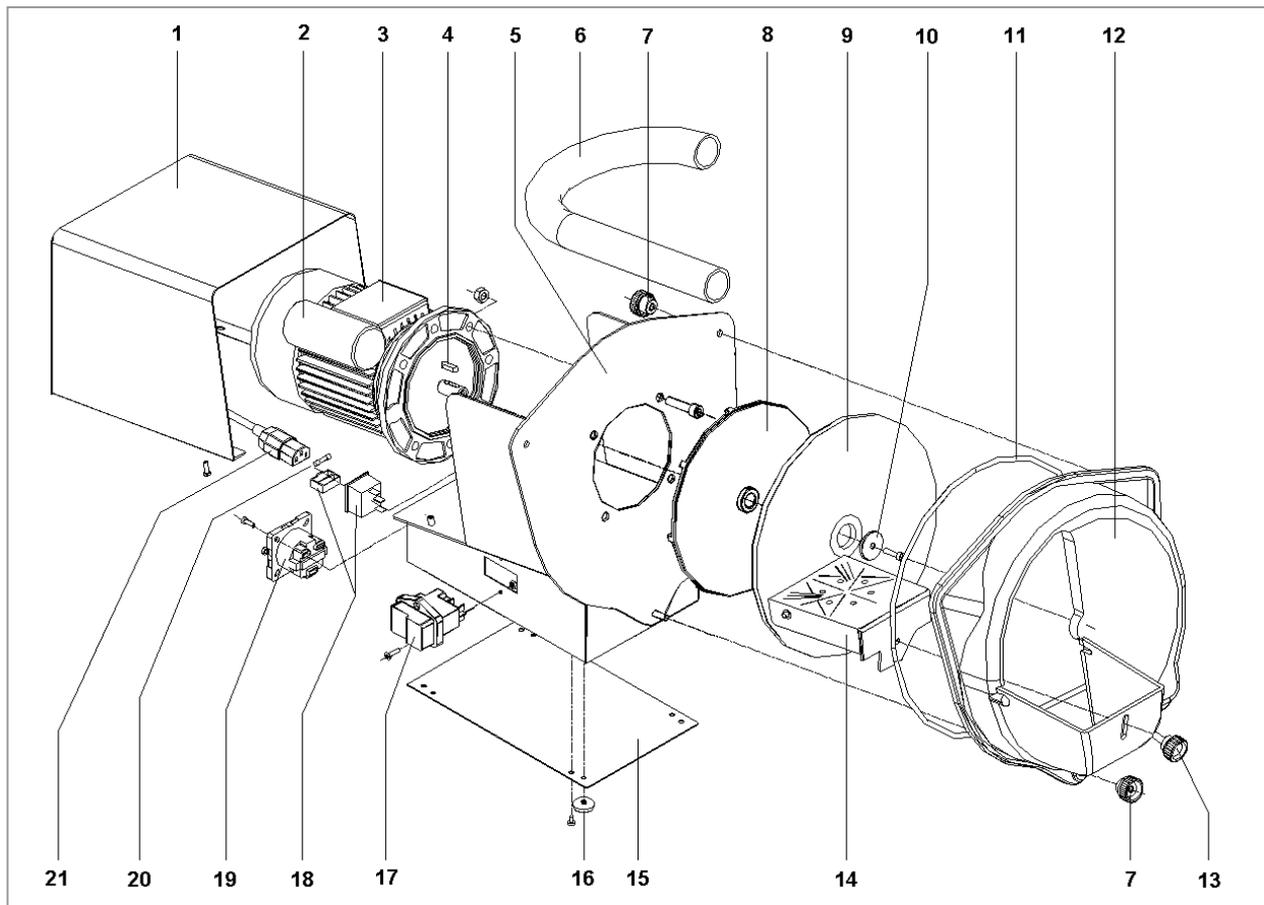
## 7. WIRING DIAGRAM

Symbol	Description
<b>IG</b>	Main switch
<b>PA</b>	Extractor feeding socket
<b>C</b>	250v 10 $\mu$ F motor startup condenser
<b>M</b>	230v 50/60Hz 750W motor



## 8. EXPLODED DRAWING AND SPARE-PART LIST MT-Dry (A5104)

NO.	CODE	DESCRIPTION
1	<b>5103005</b>	MOTOR COMPARTMENT
2	<b>NES044</b>	CONDENSER 18 $\mu$ F
3	<b>NES043</b>	4P 3000RPM – 750W MOTOR
4	<b>NVT062</b>	5x5x25 FLAP
5	<b>5103002</b>	SUPPORTING FRAME
6	---	DISCHARGE PIPE $\varnothing$ 30x36
7	<b>NVT181</b>	GRADUATED KNOB F. M6
8	<b>5103009</b>	DISC BACKING PAD
9	<b>5101002</b>	DIAMOND-COATED DISC with hole $\varnothing$ 25.4mm - $\varnothing$ surface 254mm
10	<b>5103010</b>	DISC LOCKING WASHER
11	<b>NVG029</b>	SPONGE RUBBER $\varnothing$ 6
12	<b>5103008</b>	FRONT COVER
13	<b>NVT182</b>	GRADUATED KNOB M, M6x16
14	<b>5103007</b>	WORKING PLANE
15	<b>5103006</b>	LOWER CLOSING PLATE
16	<b>NVG052</b>	RUBBER PROTECTION FOOT
17	<b>NEC020</b>	SWITCH WITH MINIMUM PRESSURE COIL
18	<b>NEA046</b>	PLUG AND FUSE-HOLDING UNIT
19	<b>NEA049</b>	SHUKO SOCKET
20	<b>NEA074</b>	5x20 – 16Amp FUSE
21	<b>NEV013</b>	ELECTRIC CABLE WITH PIN AND PLUG



## 9. TECHNICAL SPECIFICATIONS

Description	
Width	320 mm
Depth at the base	480 mm
Height	360 mm
Front inclination	10°
Net and gross weight	16,4 kg – 18,6 kg
Line voltage	230 v AC – 50/60 Hz
Running voltage	230 v AC
Motor rotation speed	2.800 RPM
Absorption	750 W
Disc max. diameter	254 mm
Disc diameter hole	25,4 mm

## 10. DEMOLITION AND WASTE DISPOSAL

According to International regulations, this unit has been classified as an AEE (electric and electronic device, whose correct operation depends on electric currents and electromagnetic fields) and as a consequence, at the end of its lifetime, it cannot be handled as normal waste material but it must be disposed separately, complying with the Directive 2002/96/EEC.



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