

MODEL TRIMMER

MT-Wet

INSTRUCTION AND MAINTENANCE MANUAL



1. DESCRIPTION

MT-Wet is a machine used to carry out model-trimming operations in the dental field. It has been expressly designed to work at low-average speed (1.400 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 made of dual cloth reinforced carborundum and bakelite bond, according to FEPA regulations, but it can be replaced with a diamond-coated disc featuring higher cutting power and longer operating range.

Safety during operation is assured by the adoption of a 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 beside a sink (preferably on the left side since the drain pipe is fitted rightwards)
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. Connect one end of the water inlet pipe (27) to the supply point of the water network and the other end to the proper pipe-fitting placed on the rear base
4. Connect the drain pipe (8) to the outlet manifold and lay the other end on the sink edge.



Some chemical components can mix up with the water used as detergent during the working process and they can NOT be freely wasted: **it is compulsory to filter the residues**, also by means of a sedimentation tank before draining them away.

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

5 INSTRUCTIONS FOR USE

1. Open the feeding faucet and the regulator placed on the rear panel (it is possible to regularly leave the faucet open, since a built-in solenoid valve allows water to flow only when the machine is operating; although, it is recommended to open and close the faucet every time in order to avoid any overpressure inside the pipe) and the flow regulator placed on the bottom left panel
2. Operate the white electromagnetic switch placed on the base
3. Adjust the quantity of water sprayed out on the abrasive disc (a moderate but continuous flow will be sufficient)
4. Adjust the inclination of the working plane
5. 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 come too near to the disc during operation and avoid grinding too small components, as these are particularly hard to be hold and they could get entangled or forced in such a way to endanger your fingers.

6. 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

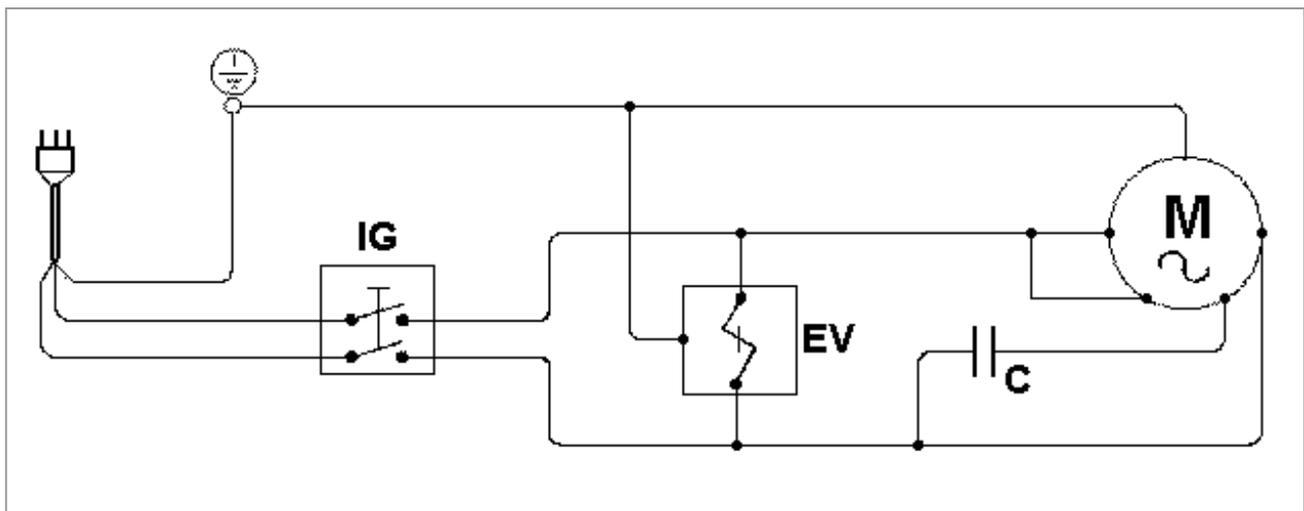
 <u>ATTENTION:</u>	Before carrying out any maintenance operation inside the machine or any technical modification affecting connections, unplug the electric cable from the socket and close the water inlet faucet; the machine will be completely cut out from the electric wiring and water system. If you 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

Though being made of high quality carborundum, the abrasive disc will inevitably wear out and must be regularly replaced. Loosen the three knobs closing the front part of the disc compartment. Gently remove the front casing from the machine body (a piece of pipe is extracted too - ingoing water passes through this part). Unscrew the screw fixing the disc to the dragging plate and remove the worn out disc. Clean the compartment from any residues and mount a new disc. Clean the internal part of the cover and reassemble it. During assembly of the housing, pay utmost attention when inserting the water pipe; eventually grease for better sliding. Fit in the three knobs and tighten firmly to ensure a watertight seal.

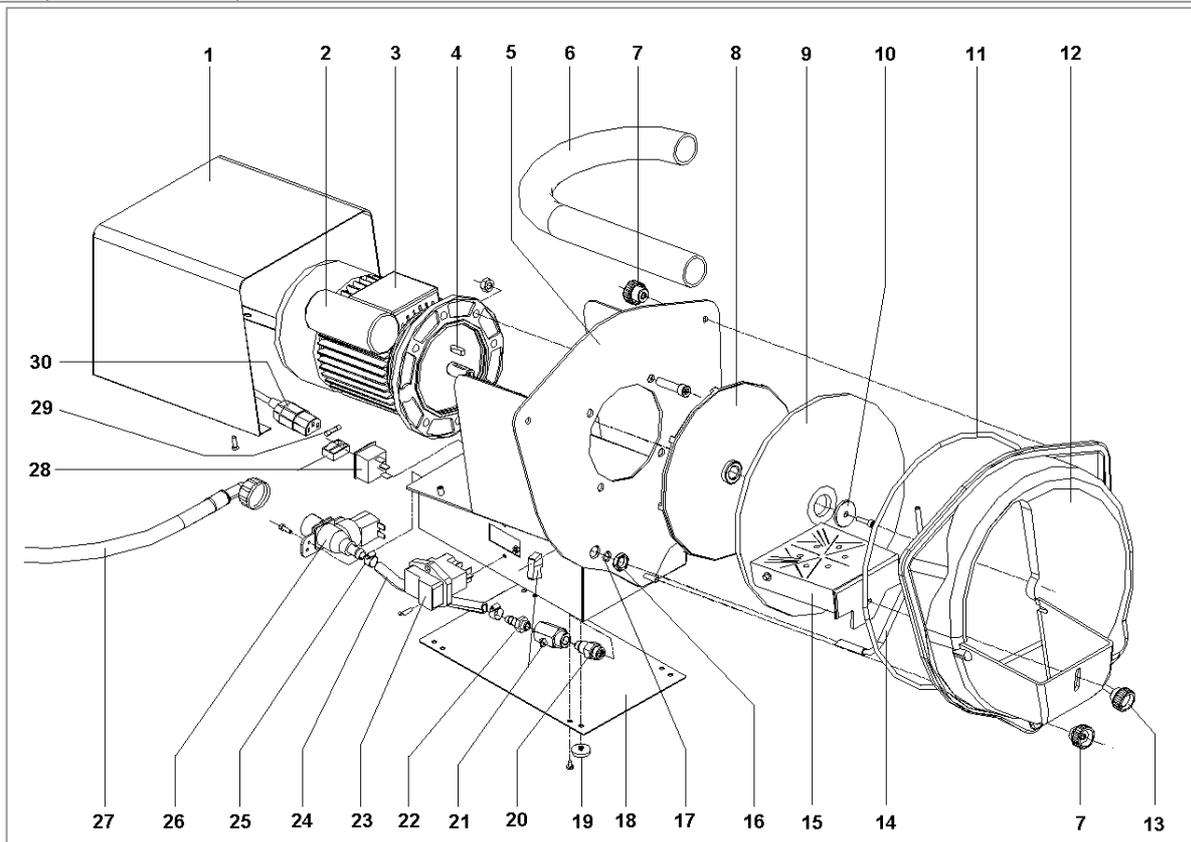
7. WIRING DIAGRAM

Symbol	Description
IG	Main switch
EV	Water inlet solenoid valve
C	250v 10 μ F motor startup condenser
M	230v 50/60Hz 750W motor



8. EXPLODED DRAWING AND SPARE-PART LIST MT-Wet (A5103)

NO.	CODE	DESCRIPTION
1	5103005	MOTOR COMPARTMENT
2	NES044	CONDENSER 18 μ F
3	NES042	2P 1500RPM – 750W MOTOR
4	NVT062	5x5x25 FLAP
5	5103001	SUPPORTING FRAME MT-WET
6	NEV060	DISCHARGE PIPE \varnothing 30x36
7	NVT181	GRADUATED KNOB F. M6
8	5103009	DISC BACKING PAD
9	5101001	ABRASIVE DISC with hole \varnothing 25.4mm – surface \varnothing 254mm
-	5101002	DIAMOND-COATED DISC with hole \varnothing 25.4mm - \varnothing surface 254mm
10	5103010	DISC LOCKING WASHER
11	NVG029	SPONGE RUBBER \varnothing 6
12	5103008	FRONT COVER
13	NVT182	GRADUATED KNOB M, M6x16
14	5103011	BENT PIPE FOR WATER SUPPLY
15	5103007	WORKING PLANE
16	5103014	M14x1 NUT
17	NPOR2031	SEALING JOINT
18	5103006	LOWER CLOSING PLATE
19	NVG052	RUBBER FOOT
20	5103013	FAUCET FITTING
21	NPS051	BALL FAUCET 1/8"
22	NPR221	PIPE-FITTING 9-1/8"
23	NEC020	SWITCH WITH MINIMUM PRESSURE COIL
24	NVG010	TRANSPARENT PIPE 8x14
25	NVT090	PIPE CLAMP
26	NES017	WATER INLET SOLENOID VALVE
27	NVG021	WATER INLET PIPE
28	NEA046	PLUG AND FUSE-HOLDING UNIT
29	NEA073	5x20 – 10Amp FUSE
30	NEV013	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	17,2 kg – 19,4 kg
Line voltage	230 v AC – 50/60 Hz
Running voltage	230 v AC
Motor rotation speed	1.400 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.



DENTALFARM s.r.l.

Via Susa, 9/a - 10138 TORINO - ITALY

 TECHNICAL-COMMERCIAL SERVICE **(+39) 011/4346588**

 AFTER-SALE SERVICE
(+39) 011/4346632

 FAX **(+39) 011/ 4346366**

E-mail: **info@dentalfarm.it**

Website: **www.dentalfarm.it**