

FINISHING SANDBLASTER IDEA + W.A.F.I.S.

 USER AND MAINTENANCE MANUAL



1. DESCRIPTION

The finishing sandblaster **IDEA + WAFIS**) is a sandblasting unit designed for finishing operations in the Dental, Jewellery and Goldsmith branch.

The main features of the machine are: the ergonomic layout of the working chamber, the high safety of use, and the trouble-free structure of the electrical and mechanical installation. The **IDEA** sandblaster is equipped with useful accessories and ensures a fast, practical and accurate work. The basic version consists of 2 **MODULO** sandblasting tanks, featuring a pressure discharge system, as well as a new system for the stop of the blasting jet.

The unit can thus operate with **two different abrasive media**, each of one suited for a different application and requiring different pressure levels. Further two sandblasting tanks can be added, **thus enabling the use of four different abrasive media**.

The sandblasting process originates toxic dust which must not be inhaled; for this reason, it is absolutely forbidden to operate the machine if a proper and functioning suction system has not been previously connected to the sandblaster.

IDEA sandblasters feature the **W.A.F.I.S.** system (WATER AIR FILTERING SYSTEM), patented solution for the elimination of dust particles, complying with current hygiene and safety regulations. WAFIS is integrated in the unit and starts up automatically when the unit is turned on.

2. TECHNICAL REFERENCE REGULATIONS AND TEST PROCEDURES

The appliance is mass-manufactured by DENTALFARM in compliance with technical and safety rules in force, as provided for by the Machinery Directive 2006/42 EEC and its amendments or integrations.

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

WASTE DISPOSAL

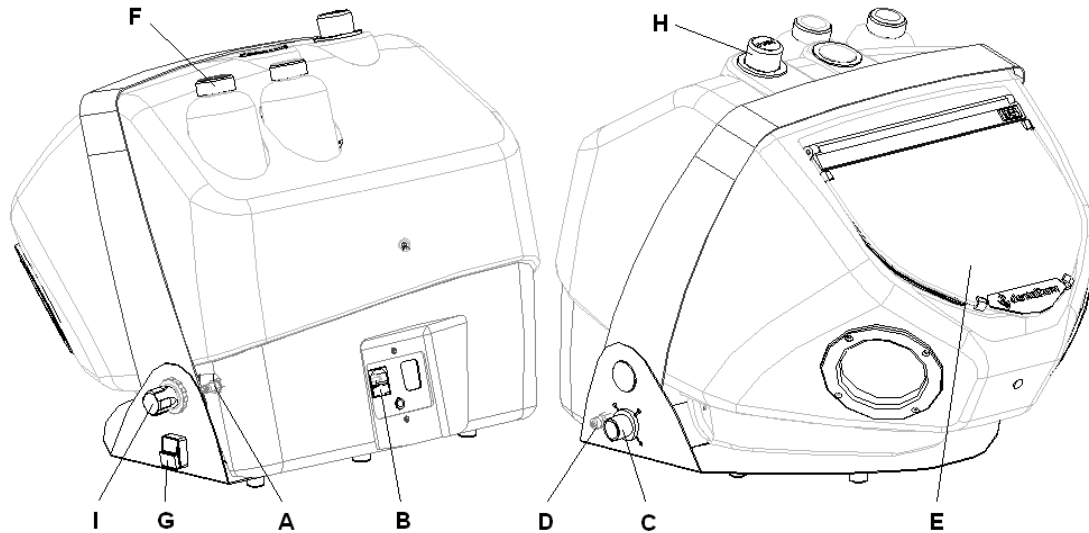
According to International regulations, this unit has been classified as AEE (electric and electronic device, whose correct operation depends on electric currents and electromagnetic fields) and as a consequence, at the end of its lifetime, it can not be treated as normal waste material but it must be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



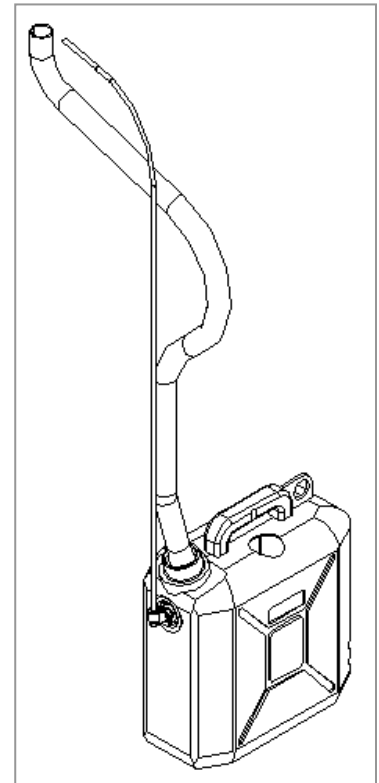
3. INSTALLATION INSTRUCTIONS



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, inconveniences and even damages during operation.



1. Place the machine on a proper workbench, which must be stable and strong enough to hold the machine safely. Keep a sufficient distance (10/15 cm) on the right side of the machine for pneumatic connections and for granting access to the switch and the pressure gauge. In case your version includes WAFIS, place the unit on the left border of the working desk, so that the discharge pipe can fall vertically down to the ground, and place the water tank as near as possible.
2. Put the foot control on the ground in a convenient place.
3. Insert the quick clutch fitting on the male intake (A) located on the right side of the unit and connect the pneumatic feeding pipe (polyethylene or rilsan, with diameter \varnothing 8x6) to the pipe-fitting. It is also possible to use a \varnothing 12x6 elastic feeding pipe, by using the fitting supplied with the unit.
4. Connect the electric feeding cable to the pre-fitted electric socket on the unit (B) and plug into an approved 220v AC - 50Hz network socket with ground connection.
5. Install the external accessories for the dust filtering unit:
 - Place the collecting tank on the floor, as near as possible to the unit, and fill it with 4-5 l of water (approximately half of the available volume)
 - Insert the end of the discharge pipe into the tank opening together with its fitting and screw the cap; the other end of the pipe shall be connected to the inlet (C) located on the left side of the sandblaster – shorten the pipe so that it falls down vertically without bending or syphons.
 - Place the water supply pipe (polyethylene pipe \varnothing 6x4), shorten it and adapt it on the pipe-fitting foreseen for this purpose (D).



6. Microblasting tanks (MODULO) are identical in layout, but can feature different components (calibrated dosing system) and external nozzles which vary according to the abrasive mixture they can dispense; it is therefore necessary to observe the indications written on the identifying labels. Should you need to use an abrasive compound of different grain, it is possible to request the needed components and to replace them.


We remind you of the possibility to install a third and a fourth tank on this machine, but this operation needs a modification of the rear panel (request the correct configuration).

7. To start working: unscrew the upper caps of the tanks (F), verify the conditions of use on the labels and, by means of the funnel, pour the compound into the tank, so that the level does not exceed 2/3 of the total volume; then close the tank.

Strictly observe the following parameters, based on the size of the external blasting nozzle as well as on the size of the internal dosing nozzle.


| TREATMENT | DOSING NOZZLE | RECOMMENDED PRODUCT | NOZZLE DIAMETER | PRESSURE |
|--|-----------------|---|--|--------------------|
| Surface roughness on metals for composites | (large) | AP-060 Orange label (Al₂O₃ 60 - 250μ) | 2,0 mm (RMN046) | 4/5 BAR |
| Surface roughness on metals for composites | (medium) | AP-120 Pink label (Al₂O₃120 - 105μ) | 1,2 mm (RMN043) | 3/4 BAR |
| Surface roughness on metals for ceramic or resin | (medium) | AP-150 Green label (Al₂O₃150 - 95μ) | 0,8 mm (RMN044) | 3/4 BAR |
| Surface roughness on metals for ceramic | (medium) | AP-180 Red label (Al₂O₃180 - 80μ) | 0,8 mm (RMN044) | 3/4 BAR |
| Sculpture on ceramic | (small) | AP-270 Yellow label (Al₂O₃270 - 50μ) | 0,5 mm (RMN045) | 2/3 BAR |
| Satin-finishing on any type of metal | (medium) | AP-090 MICROBLAST White label | For more precise jet 0,8mm For faster effect 1,2 mm | 3/4 BAR 4/5 BAR |

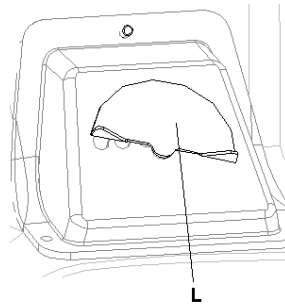
A longer nozzle with Ø 0,8 mm size (RMN044L) is available on request to carry out cleaning operations on ceramic prosthesis without metal support.

| | |
|---|--|
|  CAUTION: | <p>Very fine abrasives are highly sensitive to moisture and must be stored in a dry place, after the can has been accurately sealed and the antimoisture packet has been duly introduced into the can (if needed, replace them periodically).</p> <p>When filling the abrasive containers, check the condition of the abrasive product; if the moisture rate is too high (bad flowability and presence of clots), it is recommended to heat the abrasive in order to allow it to dry up completely. It is also of utmost importance to check the condition of the compressed air which in no way must contain evidence of moisture or of any polluting agents (oil, grease or rust).</p> |
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4. INSTRUCTIONS FOR USE

- Press the switch (G) to give light to the blasting chamber and supply power to the operating controls.

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|  CAUTION: | May we remind that the sandblasting process will start only provided that the suction system is operating – as a consequence, the suction system MUST always be active and efficient BEFORE you start to work. |
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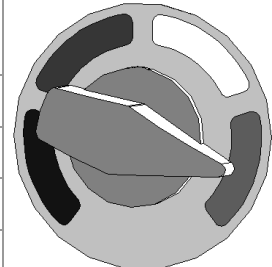


Once the window is closed, verify the efficiency of the suction unit: gloves should be lightly inflated. If needed, at first startup of the unit, modify the air outflow so that the chamber does not remain under vacuum conditions; check the correct outflow by rotating the knob of the adjusting valve (L) located on the internal plastic seat.

Daily cleaning of the suction system is recommended: remove the inspection cap (H) and repeatedly introduce the swab supplied with.

- Lift the window to introduce the pieces to be treated into the working chamber.
- Adjust the working pressure by means of the pressure adjusting device (I) located on the right side of the machine: pull the knob and turn it rightwards (to increase) or leftwards (to decrease). To lock the knob, push the knob back down.
- Turn the selector switch knob to choose the type of blasting procedure you prefer – references marked on the label are herewith specified.

| POSITION OF POINTER | SELECTED FUNCTION |
|---------------------|---|
| GREEN | MICROBLASTING FROM THE GREEN TANK |
| WHITE | MICROBLASTING FROM THE WHITE TANK |
| RED | MICROBLASTING FROM THE RED TANK (IF PRESENT) |
| BLUE | MICROBLASTING FROM THE BLUE TANK (IF PRESENT) |



- Press the foot control: air enters the selected tank putting it under pressure, it gets mixed with abrasive micrograins and will then be dispensed by the micrprojector nozzle.
- Once the work is finished, wait a couple of minutes before opening the window and switch the light off so that the suction system can fully clean the chamber from dust.


| | |
|-------------|---|
| NOTE | The abrasive used for finishing operations (the one used in MODULO tanks) cannot be re-used and will fall inside the working chamber; it shall be periodically replaced. |
|-------------|---|

The microprojectors are ideally positioned in the middle of the working chamber to facilitate use with both hands (in the standard configuration, they are curved rightwards; if needed, they can be turned to the opposite side). We recommend to put back them in place on their holders at the end of the work, to avoid them being hit by the blasting jet of the steady projector.

The window is made of anti-scratch polycarbonate material, resisting to the rebounding abrasive grains; nevertheless, we recommend to use proper protection screens (code 1000535) to preserve it at its best. Use a soft cloth to clean the window from outside and to remove dust from inside.

5. MAINTENANCE

Many of the components of any sandblasting machine are subject to wear: this is caused by the circulation of abrasive media; the instructions for a careful maintenance of the machine as well as the operations to replace the damaged or worn out parts are specified here below.

| | |
|--|---|
|  <u>CAUTION</u> | <p>Before carrying out any maintenance operation inside the working chamber or technical repair of the connections, remove the feeding cable both from network socket and from the rear of the machine; in such a way, both the electric and pneumatic installation of the unit will be fully disconnected.</p> <p>Should you have any doubts or difficulties, get in touch with our Technical Service to avoid any risks or damages.</p> |
|--|---|

Replacement of the plastic protection screens of the window

Remove the 4 fixing clips, pull out the worn screen, clean accurately the surface with a moistened cloth and place a new protection screen.

Replacement of the polycarbonate window

Although the window is anti-scratch, it can be damaged by an extensive use (or because of improper maintenance). Replacement is very simple: locate the screws which fix it to the upper profile and unscrew them.

Replacement of gloves

The gloves are made of highly resistant rubber, but are subject to the natural ageing of rubber and to the action of sweat (produced by hands). This cause them to dry up. To replace them, unscrew the flange screws and fit a new pair of gloves into the proper seat. (Please consider position of the thumb finger with respect to the fixing holes).

Replacement of MODULO nozzle

Nozzles of the microblasting tanks are also subject to wear and need to be replaced. To do this, unscrew the ring nut and assemble the new nozzle.

Cleaning of the 5my filter

A 5my filter, mounted under the base of the container, prevents fine dust from damaging internal components. Remove the inspection cap every 2-3 months and blow the filter with compressed air to clean it from dust sediment.

Replacement of parts of MODULO tank being subject to wear (pipe, pipe-fittings, microprojector body)

The polyurethan pipe, the blue connection fitting and the microprojector body where abrasive flows will inevitably wear out and need to be replaced regularly. To replace the microprojector body, follow the same instructions specified for the nozzle (firstly, remove the ring nut, then unscrew the body from the handle); to replace pipes or pipe-fittings, turn the unit, unmount the rear panels (first of all the lower one, the darker one, then turn the larger one upwards); remove the fixing nuts which fix the microprojector holder and work under the container. It is also possible to disconnect each MODULO tank for easier operation, simply unscrewing the nuts fixing it to the metallic housing.

Replacement of MODULO tank internal components

Should it be necessary to replace the MODULO tank internal components like joints, air injectors, abrasive outlet pipe, because of wear, or faulty functionality, or to adapt them to other kinds of abrasive, please contact our Technical Service.

Replacement of water in the WAFIS system

ONCE A WEEK, or, in case of more intensive work, **every 15 DAYS**, disconnect the pipes from the water tank (unscrew red cap and detach the pipe-fitting with the discharge pipe – then disconnect the water supply pipe from the lateral pipe-fitting), then empty the water tank, clean it properly and refill with clean water.

Removal of a MODULO tank for repair or maintenance purposes

The new MODULO tanks have been studied to facilitate your task during removal.

- Remove rear panels
- Unscrew the metallic ring nut which fixes the feeding pipe and disconnect the pipe
- Unscrew the plastic ring nut which fixes the microprojector and disconnect the microprojector pipe
- Unscrew the two nuts fixing the MODULO tank to the holder, and unclutch the tank.

Procedure for the installation of an additional Modulo tank

Installing an add-on tank is possible, but this requires competent know-how as well as the replacement of the rear carter by means of an appropriate version corresponding to the number of desired tanks.

- Disconnect the feeding pipe and the quick clutch of compressed air
- Unscrew the two screws fixing the lower rear carter and remove this
- Turn the rear carter upwards (push the WAFIS piston fully down)
- Fix the new MODULO tank by means of two nuts (orient it so that the blue plastic fitting is directed towards the middle of the machine)
- Uncap the proper pipe-fitting on the selector switch and connect the air inlet pipe
- Unscrew the two nuts fixing the microprojector holder and remove this
- Operating from inside the chamber, drill the membrane of the rubber joint and lead the free end of the microprojector pipe
- Connect the microprojector pipe to the blue fitting under the newly installed tank
- Place all rear protections and test the unit.

6. TROUBLESHOOTING

Problem: **THE MACHINE DOES NOT START**

| Possible cause | Remedy |
|---|--|
| Lack of tension | Check: - magnetothermic switch - socket supply switch - fuses of the feeding board |
| Lack of power distribution in the machine | Check: - socket connection - network fuse Should this malfunction repeat, contact our TECHNICAL SERVICE. |

Problem: **NO LIGHTING**

| Possible cause | Remedy |
|--|---|
| Bad electrical connection | Check that the electrical plug is correctly plugged in. |
| Power switch is damaged | Check connections and operation (some dust could have oxidized contacts so that they seized up). Try to blow with compressed air and replace if needed. |
| LED circuit or transformer are faulty. | Contact Technical Service for replacement |

Problem: **NO AIR IS COMING OUT**

| Possible cause | Remedy |
|----------------------------|---|
| Bad pneumatic connection | Check connection to the compressor. |
| Internal pipes are clogged | Check connections and condition of pipes up to their end (nozzles). |
| Air filter is clogged | Check and disassemble, if needed, the moisture collection glass and replace the internal filtering element. |

Problem: **INTERNAL AIR LEAKAGE**

| Possible cause | Remedy |
|-------------------------------------|--|
| Condensate discharge on the filter. | The condensate discharge is carried out by the lifting of a ball cock. A sufficient level of pressure must be provided for the valve to close. |
| Internal pipes are disconnected | Check the state of the piping. Polyethylene pipes might not be perfectly calibrated; try to cut out a small portion from the end of the pipe and insert it into the pipe-fitting; if needed, replace the pipe. |

Problem: **THE BLASTING JET of the MODULO TANK IS UNSTEADY**

| Possible cause | Remedy |
|--|---|
| Nozzle is clogged or worn out. | Unscrew nozzle fixing nut, clean both the hole and microprojector components (especially the thread) - re-assemble. If necessary, replace the damaged parts. |
| Microprojector feeding pipe is worn out, bent or clogged | If the pipe is worn out or bent, replace it. If it is clogged, disassemble the nozzle and let air come out. |

| | |
|--|---|
| The abrasive mixture is too rich in aluminium oxide, i.e. loss of sharpness | Abrasive tank is overfilled, discharge it. Pipe bending under the containers may collect abrasive at the end of the work, when the valve releases pressure; it is possible to limit this reaction reducing bending of the pipes at the minimum. |
| Damp aluminium oxide causing bad flowing. | Empty the tank, possibly disconnect it from the machine and turn it upside down, blow with clean air in order to dry up all the internal pipings, then heat and dry up the abrasive product and fill in again. |
| Compressed air filled with condensation or oily particles. | Fine abrasive compounds are particularly sensitive to moisture and, as mechanic pickling agents, they hold the polluting agents. Therefore it is important to protect the efficiency of the product installing adequate filtering and drying systems on the air installation. |
| Grainsize of the aluminium oxide is not compatible with the abrasive metering system inside the container. | Verify compliance with the indications printed on the tank label and with the comparative tables (abrasive grainsize / nozzle diameter / internal dosing system). |
| The blasting jet is not efficient | Unsufficient pressure. The 5my filter is clogged, unscrew the inspection cap and clean it. The solenoid valve is dirty: get in touch with Technical Service. |

Problem: NO ABRASIVE COMING OUT, INTERNAL LEAKAGE.

| Possible cause | Remedy |
|--|---|
| Worn pipe-fittings or punched microprojector pipe. | The components of the circuit located after the tank - in which the abrasive circulates - are subject to wear. It is recommended to prevent any possible break by replacing these components each 6-12 months, according to the workload. |

Problem: ABRASIVE TANK IS NOT UNDER PRESSURE

| Possible cause | Remedy |
|-----------------------------------|--|
| Joints are not perfectly airtight | Check whether cap is correctly tightened and container is tight at its base. Disconnect the container from the machine, disassemble and clean it. |

Problem: UNSUFFICIENT SUCTION of DUST

| Possible cause | Remedy |
|---|---|
| WAFIS discharge pipe not properly installed | Verify that the external discharge pipe does not present bends or syphons , eventually shorten it, and that it is not clogged |
| WAFIS duct is not properly clean. | Clean frequently the inside piping by means of the supplied swab to prevent sediments from accumulating. |
| Dosing nozzles are dirty. | Access rear of the unit, locate and unmount the two nozzles and clean them accurately. |

7. TECHNICAL DETAILS

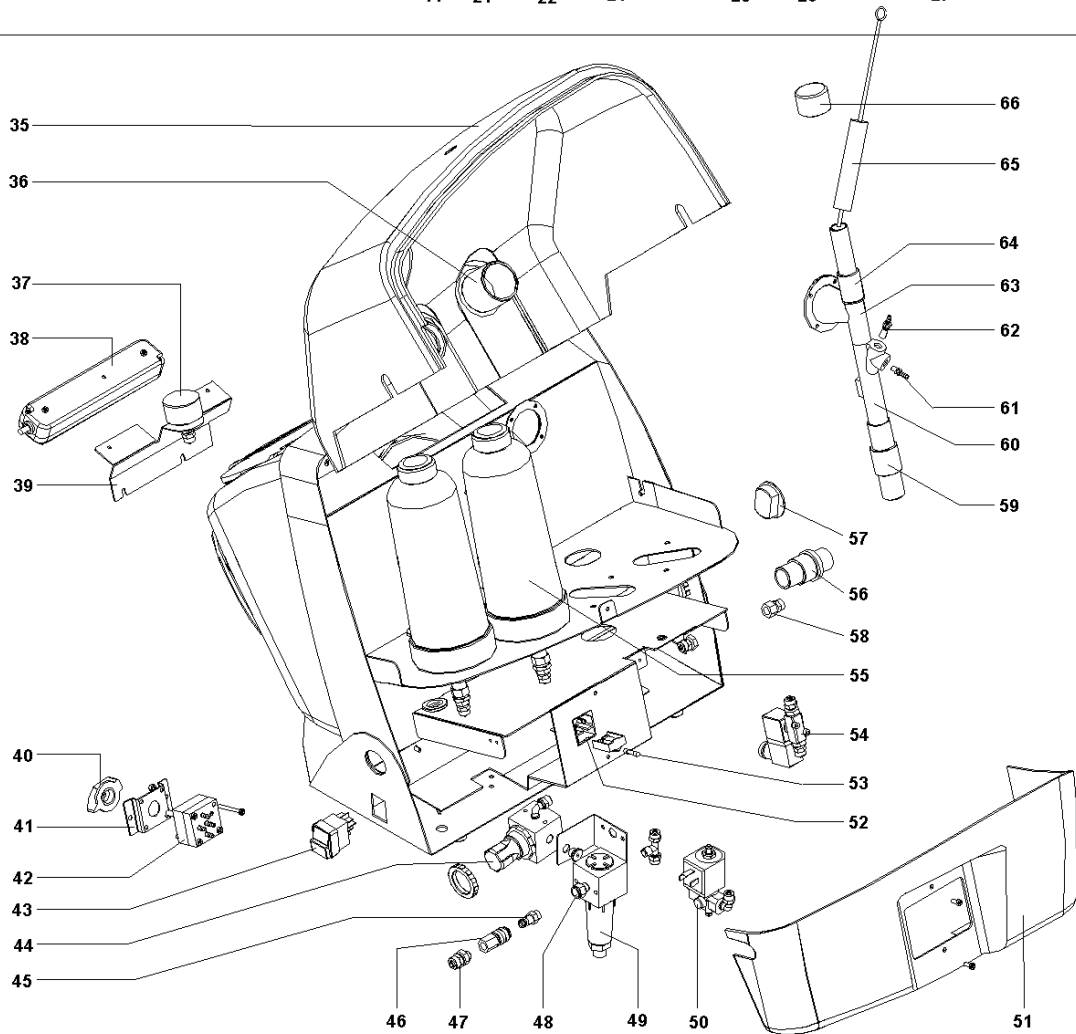
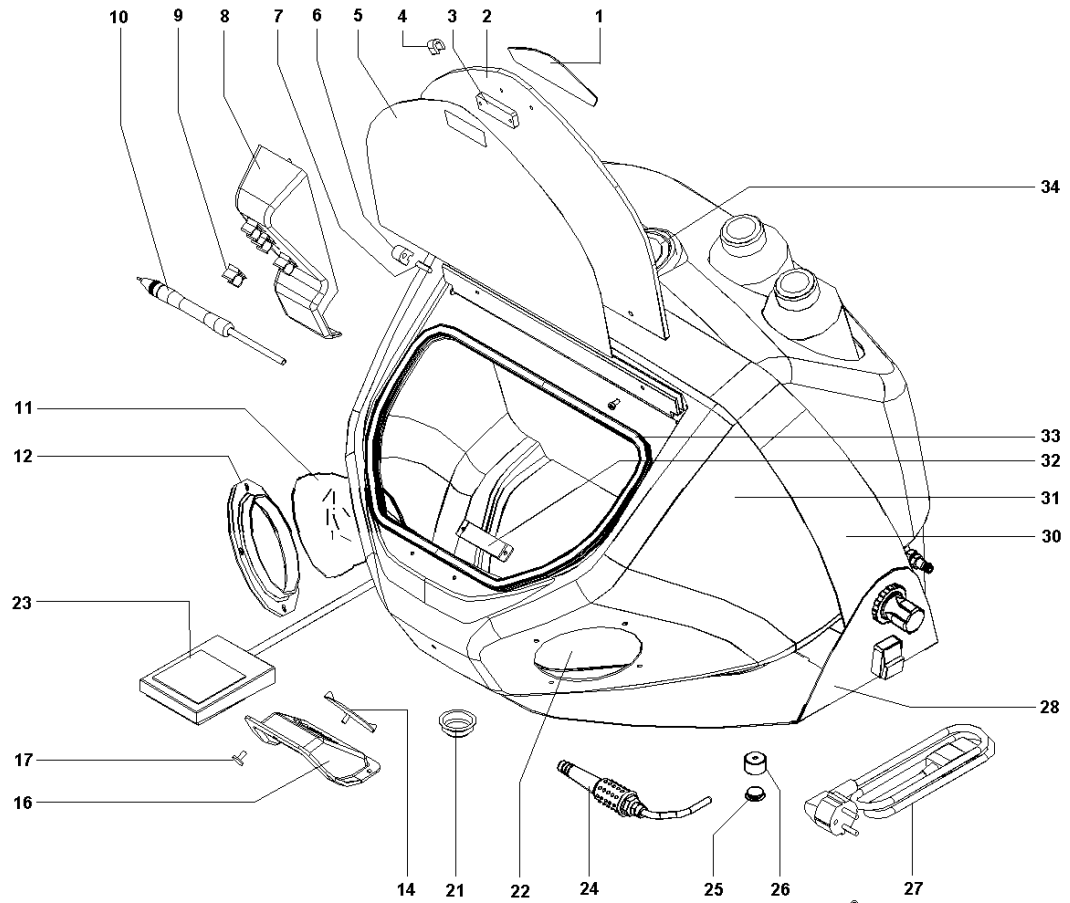
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|-----------------------|--|
| Height | 460 mm |
| Width | 450 mm |
| Depth | 400 mm at base – 500 mm overall |
| Net and Gross weight | 17,0 kg – 21,0 kg |
| Voltage | 230 V - 50 Hz (different tensions available on demand) |
| Absorption | 120 W – 1,2 A |
| Lighting | 42 LED circuit with electronic transformer |
| Dust filtering system | W.A.F.I.S. (Water Air Filtering System) , patented dust filtering system |

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| WAFIS air consumption | 50 l/min. at 4 BAR |
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|------------------------------|---|
| Microblasting pressure | min 1,5 BAR - max 6,0 BAR |
| Air consumption (Ø0,8mm) | 15 l/min. at 2 BAR |
| Air consumption (Ø2,0mm) | 120 l/min. at 4 BAR |
| Standard nozzles | 1 x Ø 0,8 mm + 1 x Ø 1,2 mm in tungsten carbide |
| Abrasive grainsize min - max | mesh 270 (50µ) – mesh 60 (250µ) |

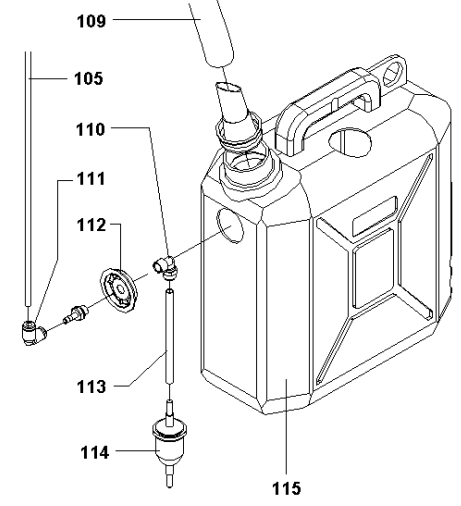
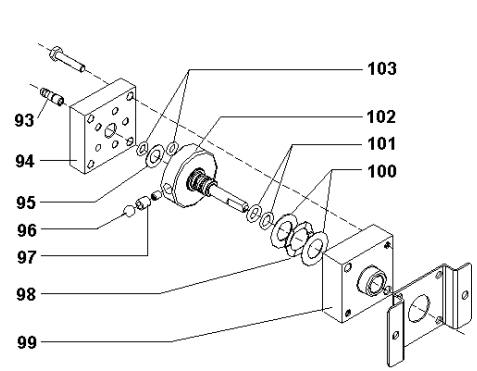
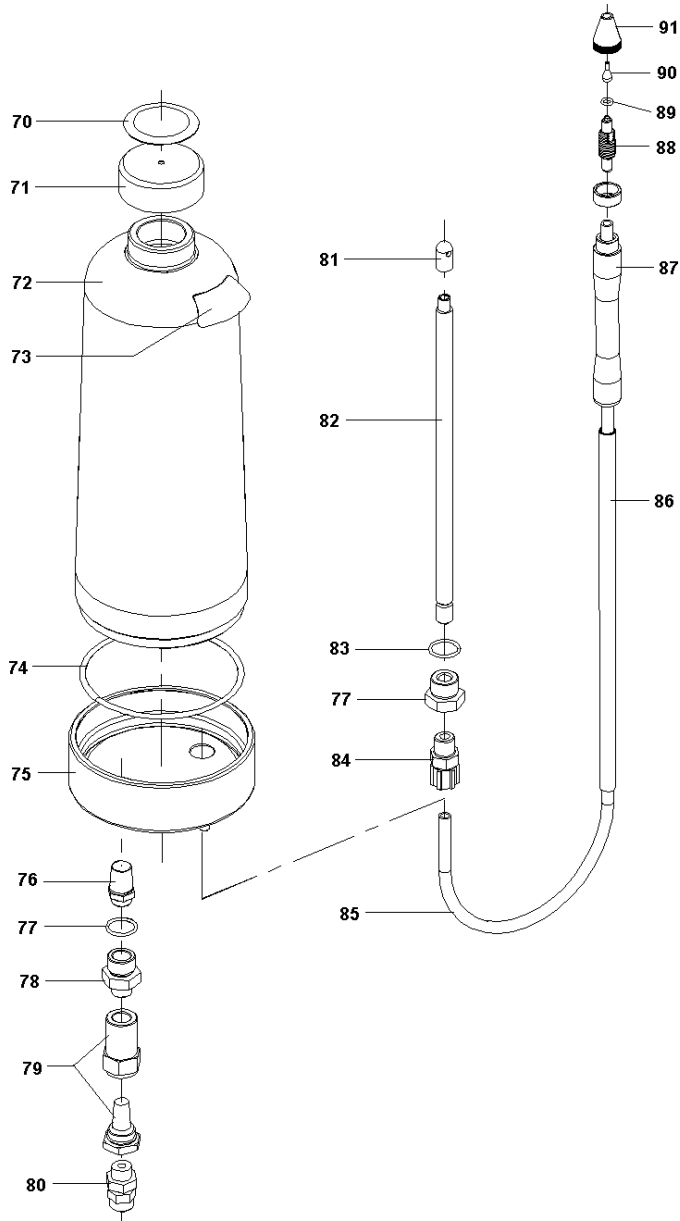
8. EXPLODED DRAWING AND SPARE PART LIST IDEA + WAFIS table 1

| # | code | description |
|----|------------------|---|
| 1 | 1076037 | IDEA LOGO LABEL ON WINDOW |
| 2 | 1076015 | POLYCARBONATE WINDOW IDEA |
| 3 | 1076032 | PLATE ON WINDOW IDEA |
| 4 | RCB042 | PROTECTION SCREEN 4 PCS FIXING CLIPS |
| 5 | 1000535 | PACKAGE OF 6 PROTECTION SCREENS IDEA/IDEA PRO |
| 6 | 1076022 | PAWL FOR HINGE IDEA |
| 7 | NVT052 | CYLINDRIC PIN 5x20 |
| 8 | 1076014 | PIPE PROTECTION SLEEVE IDEA |
| 9 | NEA123 | CLIP FOR COMPONENTS |
| 10 | 1000605.. | COMPLETE MICROPROJECTOR (specify colour and nozzle) |
| 11 | RMA103 | PAIR OF LATEX GLOVES |
| 12 | 1039017 | GLOVE FLANGE |
| 14 | 1072033 | COVER ON SUCTION HOLE |
| 16 | 1076007 | AIR INTAKE CARTER IDEA |
| 17 | 1076019 | FRONT FIXING SCREW IDEA |
| 21 | NVP030 | PLASTIC RING D. 31 |
| 22 | 1077004 | ABRASIVE FILTERING GRID IDEA |
| 23 | NEC050 | ELECTRICAL FOOT CONTROL |
| 24 | NPS001 | AIR BLOWER |
| 25 | NVG057 | HEMISPHERICAL BUMPER D.18 |
| 26 | 1076039 | ADJUSTABLE FOOT |
| 27 | NEV013 | ELECTRIC CABLE WITH 3x1 PIN/PLUG |
| 28 | 1077001 | COMPLETE HOUSING IDEA |
| 30 | 1076005 | SIDE COVER IDEA |
| 31 | 1077010 | WORKING CHAMBER IDEA |
| 32 | NEC046 | RECTANGULAR MAGNETIC UNIT 50x16x2,5 |
| 33 | 5406019 | WINDOW JOINT |
| 34 | NEA124 | FAIRLEAD D.=50 |
| 35 | 1076013 | HIGH REAR COVER IDEA |
| 36 | NEA125 | FERRULE WITH HEAD D.=46 |
| 37 | NPS040 | MANOMETER 0-6 1/8 |
| 38 | 1000534 | COMPLETE LED LIGHTING UNIT |
| 39 | 1076002 | MANOMETER AND LIGHTING UNIT SUPPORT IDEA |
| 40 | NVT141 | GRADUATED KNOB |
| 41 | 1073016 | SUPPORT FOR 5-WAY SELECTOR SWITCH |
| 42 | 1000531 | COMPLETE 5-WAY SELECTOR SWITCH |
| 43 | NEC018 | PROTECTED BIPOLAR SWITCH |
| 44 | NPS031 | PRESSURE REDUCER 1/8 |
| 45 | NPR304 | MALE QUICK CLUTCH 1/8 |
| 46 | NPR303 | FEMALE QUICK CLUTCH 1/8 |
| 47 | NPR119 | STRAIGHT MALE PIPE-FITTING 8x6 1/8 |
| 48 | NPR206 | REDUCTION FITTING M/F 1/8 1/8 |
| 49 | NPS012 | AIR FILTER 1/8 |
| 50 | NES030 | 3-WAY SOLENOID VALVE-220v |
| 51 | 1077012 | SMALL REAR COVER IDEA PRO |
| 52 | NEA046 | SOCKET + DOUBLE FUSE HOLDER |
| 53 | NEA071 | RAPID FUSE 5x20 6,3 A |
| 54 | NES029 | 2 WAY SOLENOID VALVE -220v |
| 55 | 100072DU | COMPLETE D.O.S. TANK |
| 56 | 1076029 | DEPRESSOR DISCHARGE COLLECTOR IDEA |
| 57 | 1076024 | FIXING PIN IDEA |
| 58 | NPR102 | STRAIGHT FEMALE PIPE-FITTING 6x4 1/8 |
| 59 | 1201019 | CONNECTION HOSE |
| 60 | 1039029 | DEPRESSOR BODY |
| 61 | RCB033 | DEPRESSOR AIR INJET NOZZLE |
| 62 | RCB034 | DEPRESSOR WATER INJET NOZZLE |
| 63 | 1039028 | DEPRESSOR COLLECTOR |
| 64 | 1076025N | DEPRESSOR EXTENSION IDEA |
| 65 | 1024044 | CLEANING SWAB |
| 66 | 1076028N | DEPRESSOR INSPECTION CAP IDEA |

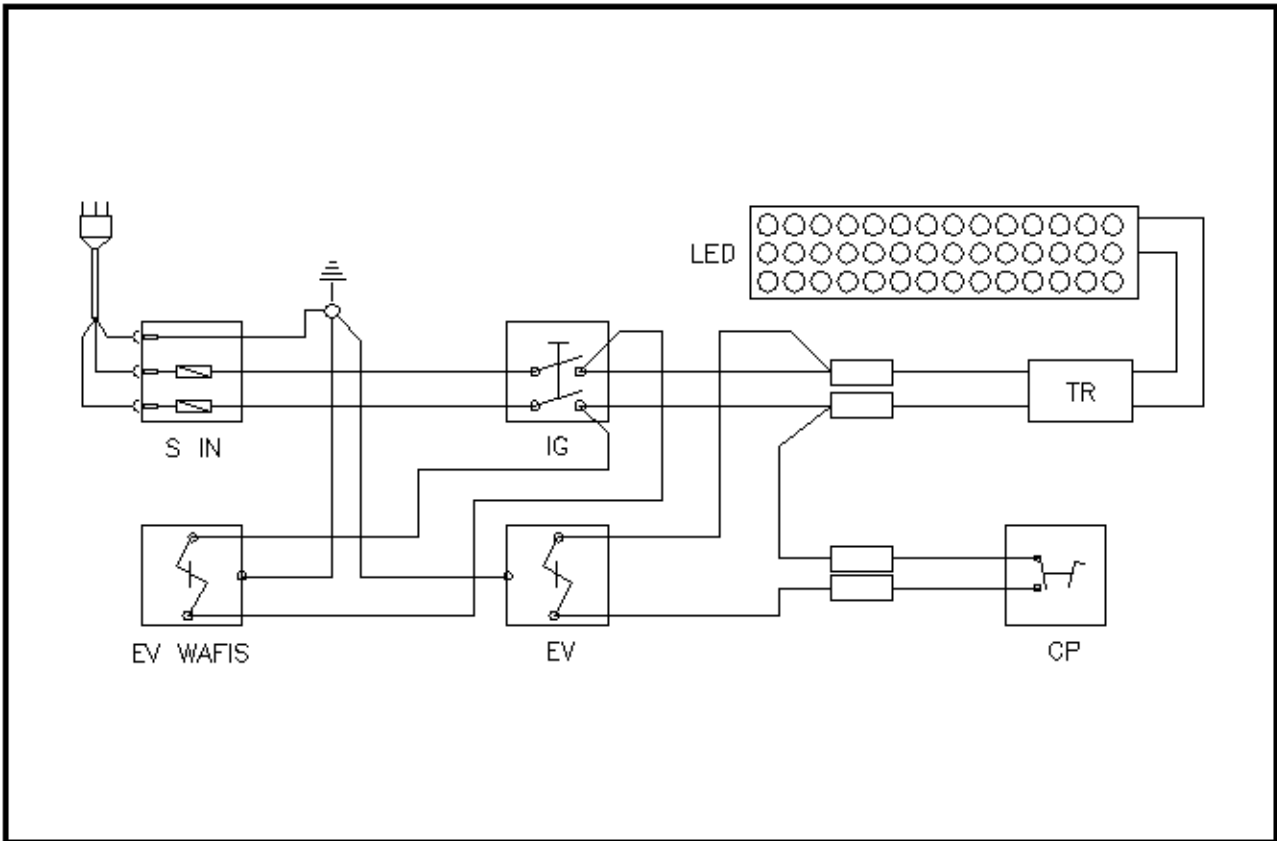


EXPLODED DRAWING AND SPARE PART LIST IDEA + WAFIS table 2

| # | code | description |
|-----|-----------|---|
| 70 | 1076033.. | RESIN LABEL FOR TANK (specify colour) |
| 71 | NVT165 | G1 FEMALE CAP |
| 72 | 1072003 | COMPLETE ABRASIVE TANK |
| 73 | 1076100 | MODULO IDENTIFYING LABEL IDEA |
| 74 | NPOR3300 | OR JOINT 3300 |
| 75 | 1072001P | NYLON/GLASS TANK BASE |
| 76 | NPV020 | SINTERED AIR INJECTOR |
| 77 | NPOR2043 | OR JOINT 2043 |
| 78 | 1072004A | FITING FOR AIR BLOWER AND FILTER |
| 79 | NPV025 | LINE FILTER |
| 80 | NPR111 | STRAIGHT MALE PIPE-FITTING 6x4 1/8 |
| 81 | 1072007 | TERMINAL CAP ON ABRAISVE PIPE |
| 82 | 1072006 | ABRASIVE OUTLET PIPE (specify grainsize in use) |
| 83 | 1072005 | ABRASIVE PIPE PIPE-FITTING |
| 84 | NPR111P | STRAIGHT MALE PLASTIC PIPE-FITTING 6x4 1/8 |
| 85 | NPV042 | EXTRAFLEX POLYURETHANE PIPE 6x4 |
| 86 | NEV030 | SHEATH D.= 6 |
| 87 | 1067005 | MICROPROJECTOR HANDLE (specify colour) |
| 88 | 1067006 | MICROPROJECTOR BODY |
| 89 | NPOR2012 | OR JOINT 2012 |
| 90 | RMN043 | TUNGSTEN CARBIDE NOZZLE D.=1.2mm |
| | RMN044 | TUNGSTEN CARBIDE NOZZLE D.=0,8mm |
| | RMN045 | TUNGSTEN CARBIDE NOZZLE D.=0,5mm |
| | RMN046 | TUNGSTEN CARBIDE NOZZLE D.=2,0mm |
| | RMN047 | TUNGSTEN CARBIDE NOZZLE D.=1,5mm |
| 91 | 1067007 | NOZZLE LOCKING RING NUT |
| 93 | 1049019 | HOSE CONNECTOR |
| 94 | 1073014 | 5-WAY SELECTOR CAP |
| 95 | NVT047 | PS RING 8/14/0.2 |
| 96 | NVT020 | STEEL BALL 1/4 |
| 97 | 1027076 | SPRING ON SELECTOR BALL |
| 98 | NVT049 | COMPENSATION RING LMKAS22 |
| 99 | 1073012 | 5-WAY SELECTOR BODY |
| 100 | NVT034 | PS RING 15/22/0.2 |
| 101 | NPOR2025 | OR JOINT 2025 |
| 102 | 1073013 | 5-WAY SELECTOR DISTRIBUTOR |
| 103 | NPOR2018 | OR JOINT 2018 |
| 109 | NEV061 | OREGON PIPE D.=25 |
| 110 | NPR112 | FEMALE ELBOW FITTING 8x6 1/8 |
| 111 | NPR099 | TURNABLE ELBOW FITTING 6 1/8 |
| 112 | 1039080 | FILTER CAP |
| 113 | NPV060 | TRANSPARENT POLYURETHANE PIPE 8x6 |
| 114 | NVI010 | WAFIS WATER FILTER |
| 115 | NVP003 | WATER WATER FILTER 10I |

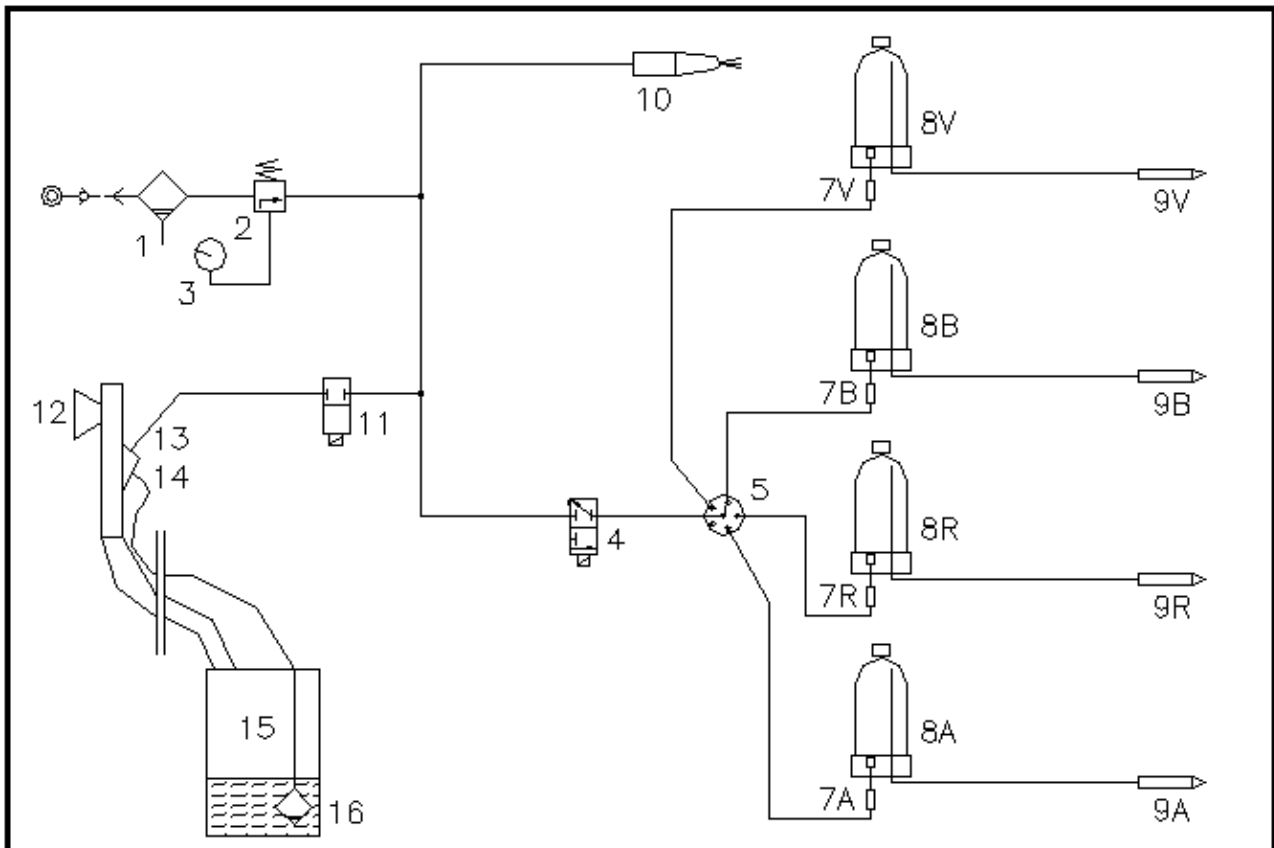


9. WIRING DIAGRAM



| NO. | DESCRIPTION |
|-----------------|--|
| S IN | PLUG AND FUSEHOLDER UNIT |
| IG | MAIN SWITCH |
| TR | ELECTRONIC BALLAST |
| LED | LED CIRCUIT |
| EV | 3-WAY-SOLENOID VALVE – MANUAL BLASTING |
| CP | ELECTRIC FOOT CONTROL |
| EV WAFIS | 2-WAY-SOLENOID VALVE – WAFIS SYSTEM |

10. PNEUMATIC CIRCUIT




| NO. | DESCRIPTION |
|-----|--|
| 1 | AIR FILTER |
| 2 | PRESSURE REDUCER |
| 3 | PRESSURE GAUGE |
| 4 | 3-WAY-SOLENOID VALVE – MANUAL BLASTING |
| 5 | SELECTOR SWITCH |
| 7 | 5 MY FILTER |
| 8 | MICROBLASTING TANK |
| 9 | MICROPROJECTOR |
| 10 | AIR BLOWER |
| 11 | 2-WAY-SOLENOID VALVE – WAFIS SYSTEM |
| 12 | DEPRESSOR |
| 13 | AIR DISPENSING NOZZLE |
| 14 | WATER DISPENSING NOZZLE |
| 15 | WATER TANK |
| 16 | WATER FILTER |

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