

GB

30
YEARS
1974 - 2004

MONOBRUSH



Use and maintenance manual



RAIMONDI
S.p.A.

www.raimondispa.com

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DECLARATION OF CONFORMITY

(According to Council Directive 2006/42/EC Annex II.a)

THE MANUFACTURER

Raimondi S.p.A.

Company

Via dei Tipografi, 11

Address

Modena

City

41122

Zip code

MO

Province

Italia

Country

DECLARES THAT THE MACHINERY

XXXX

Description

XXXX

Type

XXXX

Serial number

XXXX

Year of constr.

XX XX/XX/XXXX

Revision

XXXX

Trade name

XXX

Intended use

IS IN CONFORMITY WITH THE REQUIREMENTS

Directive 2006/42/EC of the European Parliament and of the Council of 17 May 2006 on machinery, and amending directive 95/16/EC.

in addition to:

Directive 2014/30/CE (Electromagnetic compatibility); Directive 2014/35/CE (Low voltage); Directive 2001/95/CE (Directive on general product safety)

Reference to technical standards harmonized:

EN ISO 13857:2019; EN ISO 13850:2015; EN ISO 13849-1:2015; EN ISO 20607:2019; EN 842:1996+A1:2008; EN ISO 14118:2018; EN 894-1:1997+A1:2008; EN 894-2:1997+A1:2008; EN 894-3:2000+A1:2008; EN ISO 14120:2015; EN 60204-1:2018; EN 12418:2000+A1:2009; EN ISO 12100:2010.

AND HE AUTHORIZES

Gianni Lorenzani

Name

c/o G.L. Comunicazione S.r.l.

Address

Noceto

City

43015

Zip code

PR

Province

Italia

Country

TO PREPARE THE TECHNICAL FILE FOR IT

Place and date of issue
Modena

The manufacturer
Mr. Ivan Raimondi



The Declaration of Conformity shown here in facsimile is attached to the manual but is not included inside it. This attached Declaration, and any others, must be kept and made available to anyone who requests it.

1.1 Testing, warranty and responsibility

Testing

The whole machine is sent to the customer ready for the installation, after passing the tests provided for by the manufacturer, in compliance with the laws in force.

Warranty

During the 12-month warranty, RAIMONDI S.p.A. undertakes to supply, free of charge, those parts of its production found to be defective, in terms of material or processing.

Such parts will have to be returned to RAIMONDI S.p.A., shipped carriage free.

By warranty, we mean supply of defective parts, if any.

The warranty does not cover all the expenses as to travel, board, lodging, transport and manpower concerning the replacement of parts by the RAIMONDI S.p.A. technicians, which will be charged entirely on the Customer.

The warranty does not cover all the parts subject to wear.

As to purchased components, the supplier warranty will apply.

No compensation will be granted for expenses, damages or loss of profits incurred by customer.

Installation of purchased parts not complying with the specifications of RAIMONDI S.p.A., if purchased or not supplied by RAIMONDI S.p.A., if manufactured by it, as well as improper use of the machine, will make the warranty null and void.

Responsibility

RAIMONDI S.p.A. is in no case responsible for operation anomalies or generic failures, caused by unauthorized use of the machine or by interventions and/or modifications carried out by external persons not authorized by RAIMONDI S.p.A. itself.

1.2 Environmental conditions

The environmental working conditions of the machine shall comply with the following indications:

Temperature	+10°C ÷ +55°C (50°F ÷ 131°F)
Humidity	10% ÷ 90% (not condensed)



THE MACHINE SHALL BE POSITIONED IN PREMISES PROPERLY PROTECTED FROM THE RAIN.

Environmental conditions other than those specified herein can cause serious damage to the machine and, in particular, to the electrical equipments.



POSITIONING THE MACHINE IN ENVIRONMENTS NOT COMPLYING WITH THE INDICATIONS HEREIN WILL MAKE THE WARRANTY NULL AND VOID.

Storage of the machine, while not working, allows for a temperature variation ranging between +10°C (50°F) and +70°C (158°F) all the other precautions still valid.



USE IN ENVIRONMENTS WITH EXPLOSIVE ATMOSPHERE OR FIRE RISK IS STRICTLY FORBIDDEN.

1.3 Intervention request - Technical Service

Each intervention request to the Technical Service shall be send, by fax, to:

RAIMONDI S.p.A.

Technical Service

Telefax (39) 059 282 808

E.mail: info@raimondispa.com

Specifying:

1. type of machine, registration number, serial number and year of installation;
2. detected defects;
3. retailer where the machine was bought;
4. receipt for item purchased certifying the date of purchase by the user.

1.4 Spare parts orders

Each request of spare parts shall be sent, by fax, to:

RAIMONDI S.p.A.

Technical Service

Telefax (39) 059 282 808

E.mail: info@raimondispa.com

specifying:

1. Machine model;
2. Registration number (see manual title page);
3. Code of the part to be ordered (see spare parts manual enclosed);
4. Requested quantity;
5. Shipping modality.

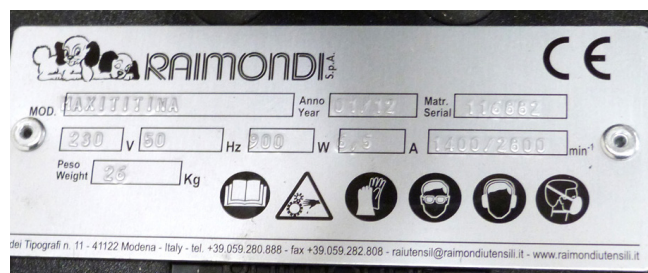
1.5 Marking

The machine identification data are engraved on the plate and shall always be indicated on every communication document exchanged between the user and the manufacturing company, for example in every assistance request or request of spare parts, etc.

The identification plate is placed on the machines.



REMOVING OR TAMPERING WITH THE IDENTIFICATION PLATE IS STRICTLY FORBIDDEN.



2.1 Safety general rules



THE RULES LISTED BELOW SHALL BE CAREFULLY READ AND SHALL BECOME THE CORE OF THE DAILY PRACTICE IN THE OPERATION AND MAINTENANCE OF ALL THE EQUIPMENT, WITH A VIEW TO PREVENTING ANY TYPE OF INJURY TO PEOPLE AND/OR DAMAGING OF OBJECTS.

1. Do not try to start the machine until its operation has been fully understood.
2. In case of doubts, despite having carefully and entirely read this manual, please contact the RAIMONDI S.p.A. Technical Service.
3. Make sure all the personnel involved in the use of machine are made aware of all the safety-related instructions.
4. Before starting the machine, the operator shall verify the possible presence of visible defects on the safety devices and on the machine. In this case, immediately inform RAIMONDI S.p.A. or the closest Technical service Centre on every evident breaking.
5. Never start the machine until all the personnel in the areas surrounding the machine have been warned and moved away.
6. Daily check the correct operation of all the safety devices and switches.
7. Safety devices shall never be removed nor made ineffective .
8. During maintenance, adjustment or repair interventions, it might be necessary to disable some of the safety devices. This operation shall be carried out by authorized personnel only.
9. All the plates and signs applied on the machine shall be kept in perfect conditions. In case of damage, they shall be promptly replaced.
10. The operator shall be familiar with the function and position of the **STOP** and **START** buttons.
11. Replace parts deemed to be broken with original spare parts, warranted by the manufacturing company.
12. Never try reckless solutions!
13. Any intervention on live parts shall be carried out by authorized personnel only, who will have to operate exclusively with the machine disconnected from the mains
14. Do not make any joint in the electrical connections of electric circuits.
15. Never intervene on moving parts, not even to unblock a jam.
16. Do not wear clothes, ornaments or accessories that might get entangled in the moving members.
17. Keep the area surrounding the machine clear.
18. Always wear protective glasses, hearing protectors, particulate respirator suitable for the product to be worked and any other personal protection equipment in the areas where such equipment is required.
19. Always pay the greatest attention to all the warning and danger signs placed on the machine.
20. Always comply with and ensure compliance with the safety rules; in case of doubts, please consult this manual again before taking any action.
21. The machine shall be used exclusively for the uses it was intended for and in compliance with the provisions set forth in the contract with **RAIMONDI S.p.A.**



DO NOT USE THE MACHINE FOR USES OTHER THAN THOSE INDICATED IN THIS MANUAL. DO NOT HANDLE PRODUCTS OTHER THAN THOSE INDICATED IN THE MANUAL. DO NOT INCREASE THE MACHINE SPEED BEYOND THE VALUE INDICATED IN THE MANUAL.

Improper use of the machine can cause dangers for the personnel in charge of the machine operation and damage the machine itself.

For any problem that might arise during the machine life, and in any case not included in this manual, please contact our **Technical Service**, with a view to solving the problem in the shortest time possible.

2.2 Definition of safety-related terms

In this manual, the following terms will be employed as to safety:

Dangerous area	each area within and/or close to the machine, where the presence of an exposed person constitutes a risk for the safety and health of this person.
Exposed person	anybody standing, either partially or totally, in a dangerous area.
Operator	person in charge of the installation, operation, adjustment, maintenance, cleaning, repair, transport of parts of the machine and all the other activities required for its operation.
Safety component	component specifically designed by the manufacturer and sold separately from the machine, aimed at ensuring safety. Consequently, the device whose failed operation jeopardizes the safety of exposed persons will be considered as a safety component.

2.3 Correct use of the machine

Use

The single rotating brush is used to grout floors installed with large joints, to wash, to clean and treat floors, to smooth cement mortar beds, to polish and sand. It can be used on: terracotta-tiled, ceramic, porcelain stoneware, marble, porphyry floors, etc...



THE MACHINE CANNOT BE USED FOR OTHER TYPES OF PRODUCTS WITHOUT PREVIOUS AUTHORIZATION BY RAIMONDI S.P.A., WHICH WILL NOT BE HELD RESPONSIBLE FOR DIRECT OR INDIRECT DAMAGE DERIVING FROM AN IMPROPER USE OF THE MACHINE.

2.4 Characteristics of the machine

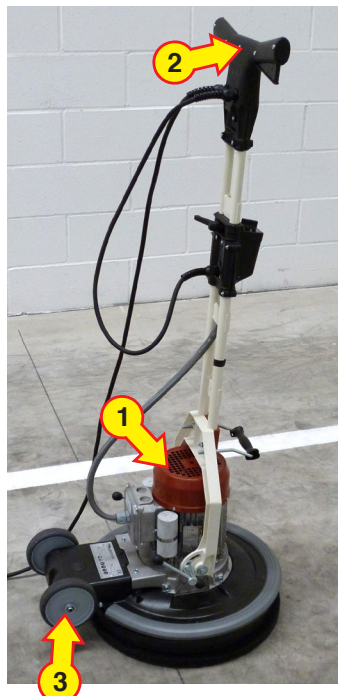
Technical features

Monobrushes features are:

<i>Pattern</i>		<i>Supertitina</i>	<i>Maxititina</i>
Mass-running	kg	26	29
	U.S. lb t	57,3	64
Size (mm)		430 x 430 x H1000	470 x 565 x H1000
Tool speed	rpm	55 / 110 n ⁻¹	55 / 110 n ⁻¹

2.5 Description of machine groups

Monobrushes consist of a series of groups which interact so as functionality is always efficient; these groups are:



- 1 Motor unit
- 2 Handle with handgrip
- 3 Handling wheels
- 4 Rubber buffer
- 5 Tool

2.6 Position of the operator

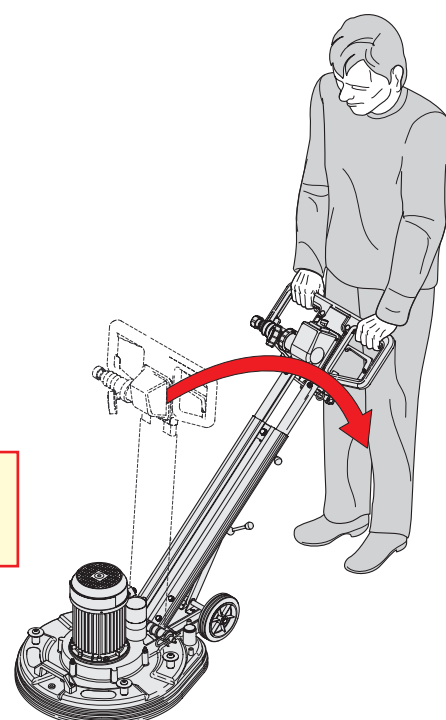
Monobrush requires the use by a single operator, who must grab the ergonomic handle with both hands.

During work, the operator must face the machine where there are the handle and the grip.

To use it, he must tilt the handle so that it is slightly below his pelvis and hold the grip against his body for greater control.



THE MACHINE SHALL BE TURNED ON ONLY WHEN THE OPERATOR IS IN WORKING POSITION. MACHINE MUST BE TURNED OFF AT THE END OF EACH PROCESSING OPERATION.



2.7 Safety devices



FOR ANY REASON THE MACHINE SHALL BE STARTED IF THE PROTECTIONS ARE TAMPERED, MALFUNCTIONING OR ABSENT.

Monobrushes are equipped with the following safety devices:



1 Master switch with speed selection
2 Start lever



IT IS NECESSARY THAT THE LEVER (2) IN THE HANDGRIP IS PRESSED TO START THE MACHINE. RELEASING THE LEVER THE MACHINE STOPS IMMEDIATELY.



RAIMONDI S.P.A. SHALL NOT BE LIABLE FOR ANY DAMAGE CAUSED BY EJECTIONS DUE TO POOR MAINTENANCE OF GUARDS, THEIR TAMPERING WITH OR AN INCORRECT POSTURE OF OPERATOR (SEE PICTURES OF OPERATOR'S POSITION).

2.8 Accessories of the machine

Monobrushes have the following equipment:

1. Wrenches supplied with the machine.
2. Use and maintenance manual in the relative language.

2.9 Noise

The machine has been designed and built so that to reduce at the source the machine noise. It is evident that sound pressure differs according to the type of tool, its wear and material to clean; therefore, we have arranged in advance a series of measurements using various types of tools and different materials both indoors and outdoors. Measurements made in the operator position on a similar machine have provided the following values, where:

The weighted continuous equivalent sound pressure level A1 [LAeq = dB(A)] Outdoor measurements

	Vuoto	<i>Type of material</i>	
		Sgrossatura	Lucidatura
Noise survey	70,4	89,2	75,2

Weighted continuous equivalent sound pressure level A1 [LAeq = dB(A)] Indoor measurements

	Vuoto	<i>Type of material</i>	
		Sgrossatura	Lucidatura
Noise survey	70,4	89,2	75,2

The conditions for indoor measurements are the following:

Building size:

length	8 m (26')
width	5 m (16')
height	3 m (10')

Type of premises:

floor	polished concrete
covering	tile
walls	masonry with side glass

Instrument used Bruel & Kjaer mod. 2221 class 1

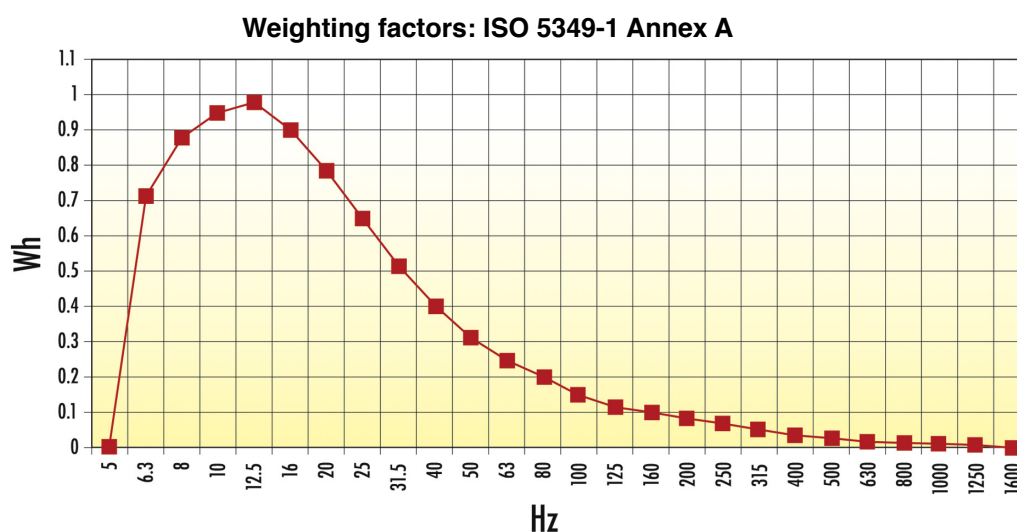
Reference standard DIN 45635

The use of the machine is only allowed provided that suitable hearing protection is ensured. The employer shall hence compulsorily provide the operators with personal protection equipment (earphones, plugs).

2.10 Vibrations

Determination of the vibration level generated by the equipment- $A_{(w)sum}$

The magnitude of the vibrating stresses generated by the equipment shall have to be characterized, for every exposure condition, in terms of "Equivalent Frequency-Weighted Acceleration" $A_{(w)} \text{ m/s}^2$. The equivalent acceleration, which is preferably expressed (*) in S.I. units of measurement (meters per second squared - m/s^2), shall have to be quantified for every handle along three standardized directions **X**, **Y** and **Z**, by applying the weighted frequency provided for by the standard (W_h), which states the maximum hand-arm system sensitivity to vibratory stimuli with a frequency ranging between 5.6 and 1400 Hz. Such an interval turns out to be delimited by the octave-band nominal frequencies 8 and 1000 Hz (included), or by the one-third octave bands with nominal frequency ranging between 6.3 Hz and 1250 Hz (included).



(*) The logarithmic decibel scale (dB ref. 10^{-6} m/s^2) is also frequently used

The three axial results shall have to be summed sectorally in order to obtain the total weighted acceleration:

$$A_{(w)sum} = \sqrt{a_{wx}^2 + a_{wy}^2 + a_{wz}^2}$$

The three standardized directions refer to a biodynamic system of coordinates, having their origin connected with the summit of the third metacarpal bone and the **Z** axis, determined by the longitudinal axis of this bone, the **X** axis crosses the palm of the hand while the **Y** axis is orthogonal to the two previous ones.

On the basis of the measurements, carried out through an operative simulation at the test room of the company RAIMONDI S.p.A. by conforming to the UNI EN ISO 5349-1:2004 standard the retrieved values are the following:

Determination of the level of vibration generated by the equipment:

- | | |
|--------------------------|--|
| - With Tungsten carbide: | - $A_{(w)sum}$ 54,1930 m/s^2. |
| - With diamond blade: | - $A_{(w)sum}$ 51,7868 m/s^2. |
| - With diamond tools: | - $A_{(w)sum}$ 59,8489 m/s^2. |

THE TEST DOCUMENTS AND THE CERTIFICATES OF THE TOOLS ARE HELD BY THE COMPANY RAIMONDI S.P.A. AND THEY ARE KEPT AT THE DISPOSAL OF THE RELEVANT CONTROL AUTHORITIES.

2.11 Demolition and disposal

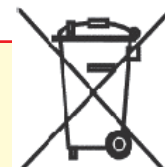
The manufacturer estimates a life of 15.000 hours of operation under normal conditions of use.

At the end of the life cycle, the company using the machine shall see to the demolition of the machine in compliance with the laws in force, first of all seeing to the emptying of lubricant fluids and overall cleaning of the different elements and, subsequently, separation of the parts making up the machine.

After disassembling the machine in line with the previous disassembling procedure, the different materials shall be separated in compliance with the laws of the country where the machine shall be eliminated. The machine does not contain harmful components or substances requiring particular removal procedures.



DURING THE DISPOSAL PROCESS, COMPLIANCE WITH THE LAWS IN FORCE IN THE COUNTRY IS REQUIRED. POLLUTANTS, SUCH AS OILS AND SOLVENTS, SHALL BE STORED EXCLUSIVELY IN METAL DRUMS.



2.12 CE Manufacturer's declaration - ROHS/RAEE

DIRECTIVE (UE) 2015/863 (Directive RoHS III) of the European Parliament and of the council of 15 March 2015 on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

DIRECTIVE 2002/96/EC (WEEE Directive) of the European Parliament and of the Council of 27 January 2003 on waste electrical and electronic equipment.

With reference to the above Directives and in particular to ENCLOSURES "I A" and "I B" of Directive 2002/96/CE, RAIMONDI S.p.A., declares that its products.

DO NOT FALL WITHIN THE FIELD OF APPLICATION OF THE (UE) 2015/863 DIRECTIVE

Restricted substances referred to in Article 4(1) and maximum concentration values tolerated by weight in homogeneous materials:

Lead (0,1 %)

Mercury (0,1 %)

Cadmium (0,01 %)

Hexavalent chromium (0,1 %)

Polybrominated biphenyls (PBB) (0,1 %)

Polybrominated diphenyl ethers (PBDE) (0,1 %)

Bis (2-ethylhexyl) phthalate (DEHP) (0.1%)

Benzyl butylphthalate (BBP) (0.1%)

Dibutylphthalate (DBP) (0.1%)

Diisobutylphthalate (DIBP) (0.1%)

Raw materials used by RAIMONDI S.p.A. in its components, fall within the EXEMPTIONS limits.

All surface treatments and plastic materials in RAIMONDI S.p.A. products do not contain the prohibited substances listed in the (UE) 2015/863 directive.

DECLARATION OF THE MANUFACTURER CE - REACH

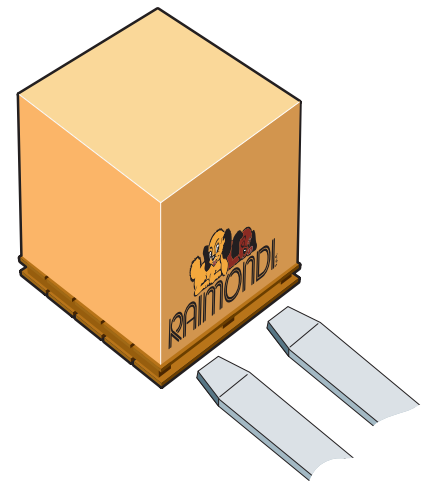
REGULATION (EC) N. 1907/2006 of the EUROPEAN PARLIAMENT AND THE COUNCIL of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH).

With reference to the above-mentioned Directive, RAIMONDI S.p.A., declares that the products they market were pre-registered by our suppliers on 1 December 2008.

We hereby inform you also that the products by RAIMONDI S.p.A., do not originally contain any SVHCs (Substances of Very High Concern) exceeding 0.1%.

3.1 Packing transport

Before using the machine, check that there are no broken, worn or damaged parts; in such case proceed to a prompt substitution. For the substitution of parts and accessories, carefully follow the instructions contained in this manual.



3.2 Power supply

Monobrush must be supplied with tension equivalent to the value indicated in the label "TECHNICAL DATA", connect the machine only to a line with an efficient earthing wire. Do not connect the machine in doubt. Connect the machine only to a plug 16A.



THE USE OF EXCESSIVELY LONG PATCH CORDS OR POWER SUPPLY WITH CURRENT GENERATORS, MIGHT LEAD TO THE FOLLOWING TROUBLES:

1. SLOW STARTING OF THE MOTOR AND SAFETY DEVICES INTERVENTION;
2. MOTOR OVERHEATING WITH POWER DROP;
3. THE SWITCHING ON-OFF DEVICE DOES NOT WORK.



IF THE MACHINE IS CONNECTED TO THE MAINS BY MEANS OF A PATCH CORD, THIS SHALL HAVE THE FOLLOWING CHARACTERISTICS:

1. MAXIMUM LENGTH 10 METERS (33');
2. HAVING A SECTION SUITABLE FOR THE LOAD ;
3. BEING COMPLETELY UNCOILED.

Monobrushes must be connected to the power supply equipped with a residual current device or with a class II isolating transformer complying with technical laws of the country in which they are used.



FOR THE CORRECT USE OF THE RESIDUAL CURRENT CIRCUIT BREAKERS, DO NOT FORGET TO CHECK THEIR EFFICIENCY BY MEANS OF THE TEST BUTTON PLACED ON THE FRONT PART OF THE DEVICE ITSELF.

3.3 Assembly

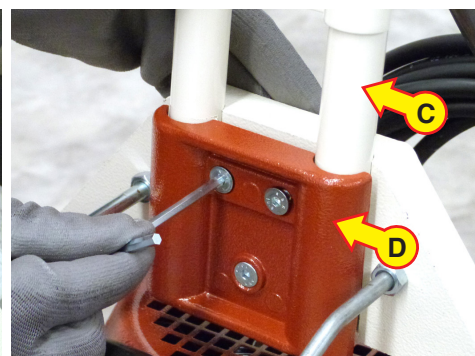
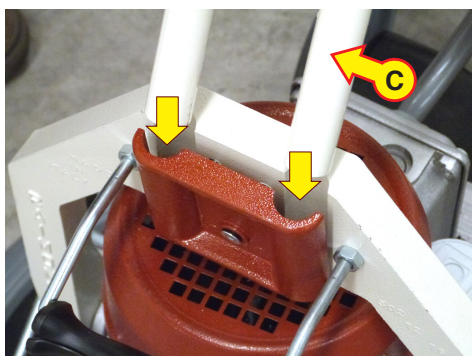
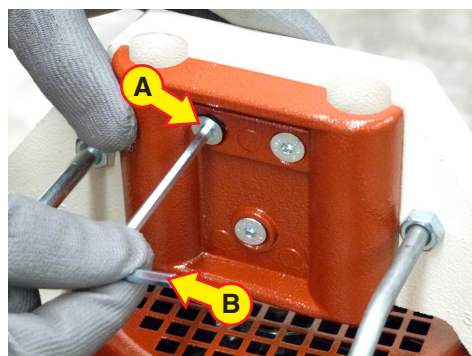
Machine assembly



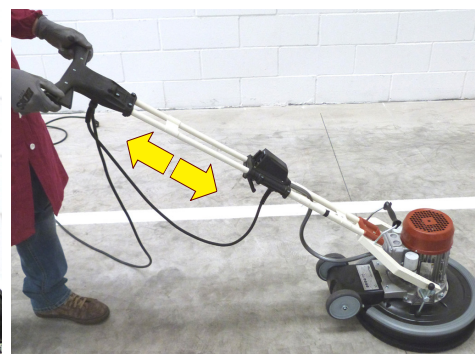
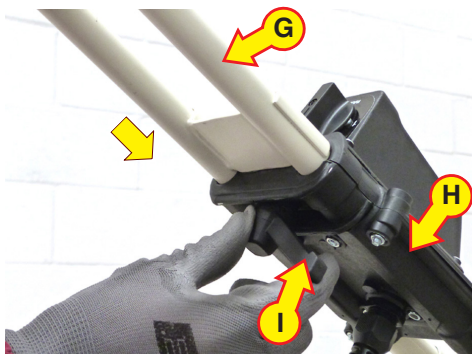
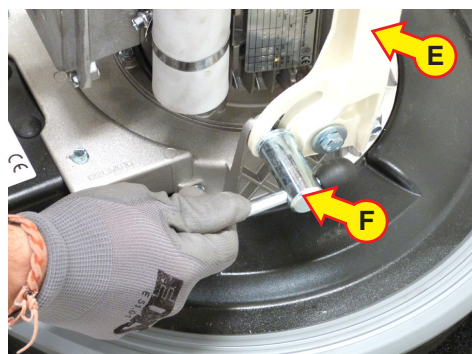
TO CARRY OUT THIS OPERATION, WEAR THE PROTECTIVE GLOVES AND ACCIDENT-PREVENTION SHOES.



FOR THIS OPERATION MAKE SURE THAT THE MACHINE IS DISCONNECTED FROM THE POWER SUPPLY.

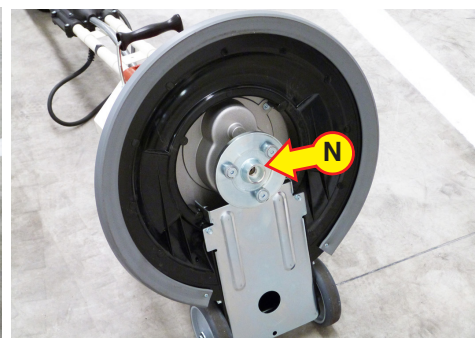


Slacken screws (A) by using an Allen wrench (B). Insert the complete handle (C) in the place (D) provided in the fork. Block the screws (A) previously slackened.

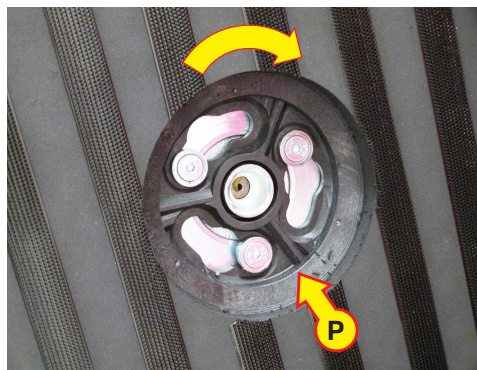


Adjust fork inclination (E) by acting on the handle (F) (this operation must be carried out on both sides of the machine). Finally, insert the upper part of the handle (G) in the lower part (H). Adjust handle height and block the position by fastening the handle (I).

Assembly tool



Grab the machine handle (L), pivot with a foot on a wheel (M) and put it in horizontal position. Grab the tool and near it to the flange hub (N).



Insert the tool on the flange hub with quick couplings; turn it clock-wise until flange pivots (O) insert in the tool flange (P). When the insertion is finished, reposition the machine vertically.

3.4 Handling

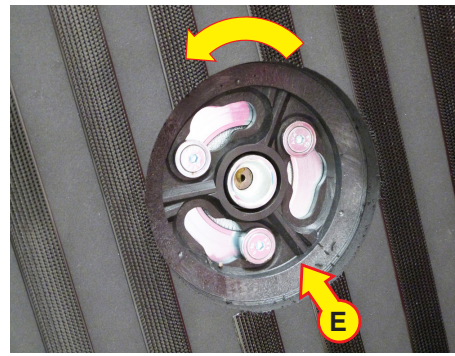
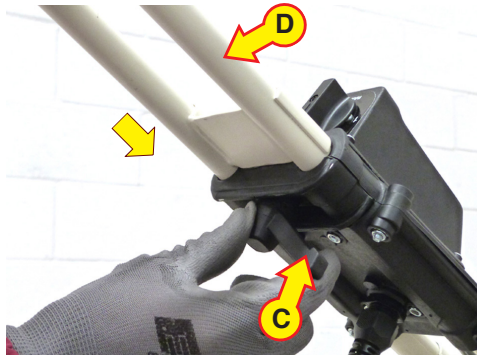
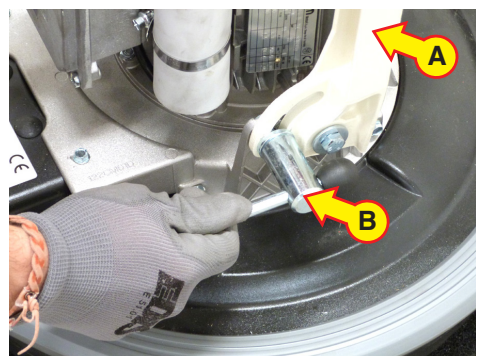


TO CARRY OUT THIS OPERATION, WEAR THE PROTECTIVE GLOVES AND ACCIDENT-PREVENTION SHOES.



FOR THIS OPERATION MAKE SURE THAT THE MACHINE IS DISCONNECTED FROM THE POWER SUPPLY.

Sollevamento



Block the fork (A) in vertical position by using the specific handle (B); slacken the lock handle (C) of grip (D) and push it downward in position of minimum amount of space. Finished the operation, fasten the handle (C).

Put the machine in horizontal position, grab the tool and turn it counter clock-wise releasing it from the flange pivots (E). If the operation of tool unfastening would be insufficient, block the driveshaft by inserting supply key in the hexagonal hole under the fan cover.

In case the machine needs to be stored during idle periods, it shall be kept in covered premises, so that the machine can be protected from bad weather, and free from aggressive chemicals.

Before storing the machine, disconnection from the mains and unloading of the water tank is recommended.

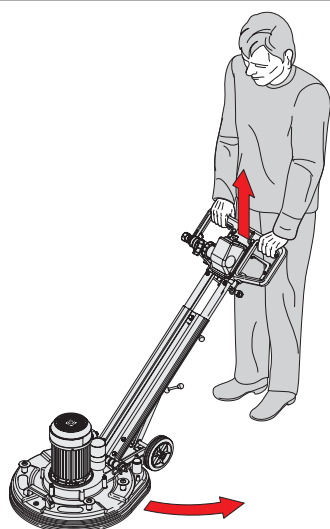
The machine must be kept in a place with a suitable temperature (from +10° C to +70° C) / (from 50° F to 158° F).

4.1 Running the machine

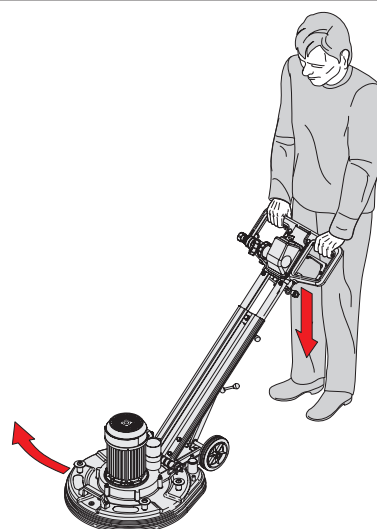
Monobrush can be used to grind, finish and polish by moving the machine on the surface with a direction, pass speed and pressure on the tool according to the result one wishes to obtain.

FOR THE CORRECT OPERATOR'S POSTURE, REFER TO THAT WHICH IS WRITTEN IN PARAGRAPH "2.6 OPERATOR'S POSITION".

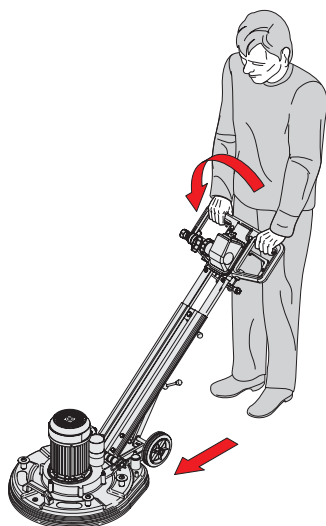
To use the single-brush machine easily without any effort and with maximum efficiency, just follow this procedure:



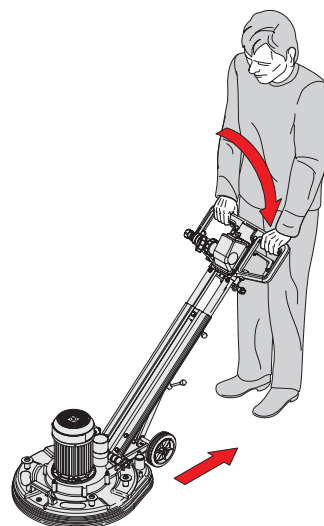
Moving to the left
Raise the handle slightly.



Moving to the right
Press the handle slightly downwards.



Moving forwards
Exert minimum downward pressure on the right of the grip.



Moving backwards
Exert minimum downward pressure on the left of the grip.



IF THE MACHINE DOES NOT RESPOND TO THE ABOVE COMMANDS AND THEREFORE BECOMES UNCONTROLLABLE, RELEASE THE START LEVERS. CHECK HANDLE TILT.

4.2 Machine applications

4.2.1 Sealing flooring with wide grouting

Tools:

- Spreader.

Rotation speed:

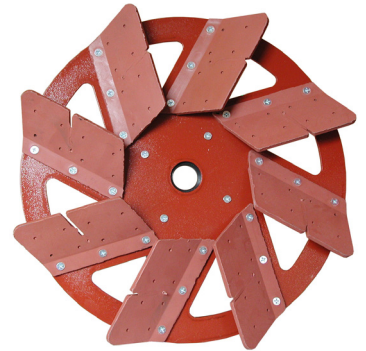
- Position 1 of selector (55 rpm.).

Using with epoxy-resin based sealants:

- Prepare the sealing product respecting the percentage of water recommended by the producer.
- Fill joints with the brushing machine.

Use with sealants based on epoxy resins:

- Apply the product with rigid rubber rake or with rubber spatula.
- Complete the filling of joints with the brushing machine.



4.2.2 Cleaning during sealing

Tools:

- Felt drive disk with felts.

Rotation speed:

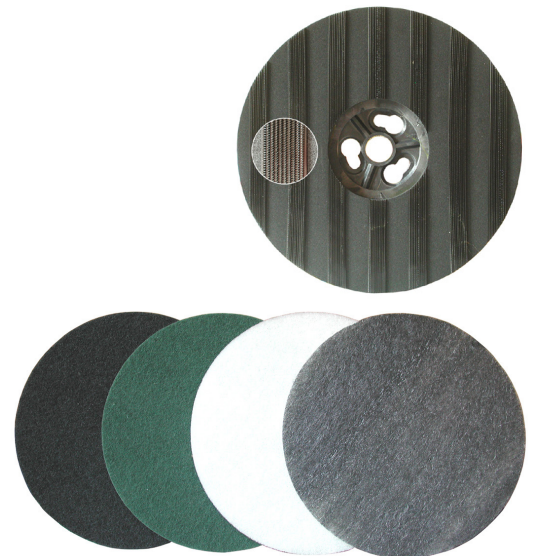
- Position 2 of selector (110 rpm).

Cement-based sealants:

- After cleaning the excess sealant off the floor, wait until the remaining layer of sealant product dries.
- Dampen with water and remove sealant layer with Monobrush equipped with felts pulling disk and black felt.

Epoxy sealant:

- After removing the excess sealant from the floor, wet the surface with plenty of water and emulsify with the single-brush machine fitted with the black, green or white felt.
- Use the scraper with the twin soft-rubber layer to remove the water-sealant emulsion.



4.2.3 Washing and treatment

Washing

Tools:

- Felt drive disk with felts steel brush / Brush with abrasive bristles

Rotation speed:

- Position 2 of selector (110 rpm).

Procedura:

- To remove the sealant residue and efflorescence, use a chemical product together with the abrasive action of the tools.
- Choose the most suitable tool on the basis of the grade of difficulty of the cleaning.



Waxing

Tools:

- Tampico brush / Type-c nylon brush (soft).

Rotation speed:

- Position 2 of selector (110 rpm).

Procedure:

- Spread the product on the floor (pore-filling wax) using the single-brush machine fitted with a tampico brush or a type-C nylon brush (soft).



Polishing

Tools:

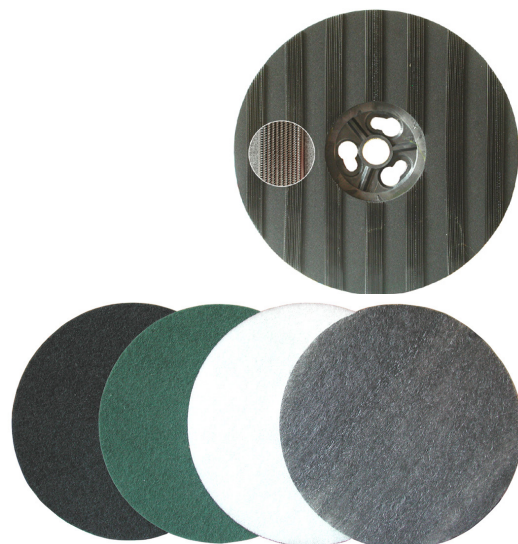
- Felt drive disk and beige / White felt Tampico brush.

Rotation speed:

- Position 2 of selector (110 rpm).

Procedure:

- Polish the floor with the single brush fitted with a disk and beige / white felt disk.



4.2.4 Smoothing cement mixes

Tools:

- Smoothing disk Ø510 mm.

Procedure:

- Wait for the mix to achieve a consistency that enables it to be walked on (in smooth-soled slippers).
- Fit the single-brush machine with the tank for dampening where necessary, without having to interrupt the work.
- Smooth the mix.



TO PREVENT ACCIDENTS OR DEFORMATION OF THE SMOOTHING DISK, MAKE SURE THAT IT DOES NOT MAKE CONTACT WITH WALLS.

4.2.5 Treating cement / resin surfaces

Tools:

- Abrasive disks drive disk / abrasive disks ø500 mm in silicon carbide or tungsten carbide / grinder-wheel disk/grinder wheels in silicon carbide or tungsten carbide.

Velocità di rotazione:

- Position 1 of selector (55 rpm).

Procedure:

- To eliminate surface imperfections such as protrusions, differences in level, adhesive residue, etc.
- The tool is chosen according to the hardness of the surface to be treated and the required degree of finish.



We recommend using:

- *silicon carbide tools (gr. 16 / 24 / 36) for surfaces of medium hardness.*
- *tungsten carbide tools (grains 6 / 16 / 24 / 36) for very hard surfaces.*

To optimise performance of the diamond-tipped tools, ballast can be loaded on the machine until the required pressure has been reached.

5.1 Machine cleaning



FOR THIS OPERATION MAKE SURE THAT THE MACHINE IS DISCONNECTED FROM THE POWER SUPPLY.



TO CARRY OUT THIS OPERATION, WEAR THE PROTECTIVE GLOVES AND ACCIDENT-PREVENTION SHOES.



KEEP ALL THE AREAS OF TOOL AND RACK COUPLING CLEAN.



DO NOT USE WATER JETS AND DO NOT GREASE.

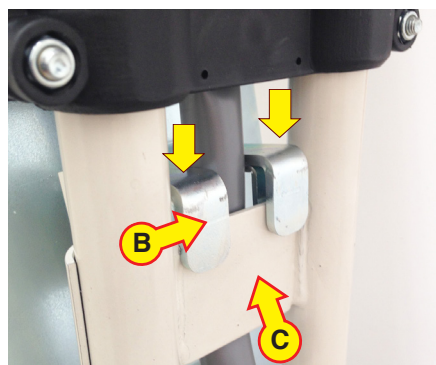
6.1 NON-STANDARD ACCESSORIES

6.2 Tank

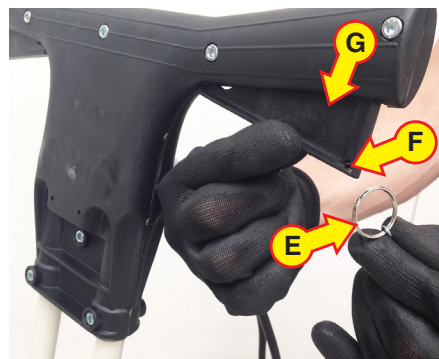
Assembly:



FOR THIS OPERATION MAKE SURE THAT THE MACHINE IS DISCONNECTED FROM THE POWER SUPPLY.



Position the handle (A) in position of maximum height by slackening the handle.



Clasp the hook (E) of the small chain to the hole (F) in the lever (G). Insert the rubber hose (H) into the coupler (I). Pour the liquid inside the tank, taking care that it does not go on the motor. To release the liquid, press the lever (G).



Tank can be used in two different ways: with the lever as described in this paragraph or with constant flow. To obtain a constant supply of water it is necessary to disconnect the chain (E) from hook (F) and act on ring nut (L).



MAKE SURE THE CHAIN IS NOT TOO TAUT. ADJUST IT TO ENABLE THE LEVER (G) TO PERFORM THE STROKE REQUIRED TO OPEN THE TAP.

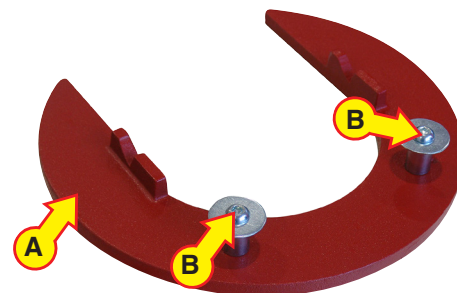
6.2 Ballasts

Assembly:



FOR THIS OPERATION WERA PROTECTION GLOVES AND SAFETY SHOES.

Insert the ballast (A) in the specific places and block it by using the specific screws (B).



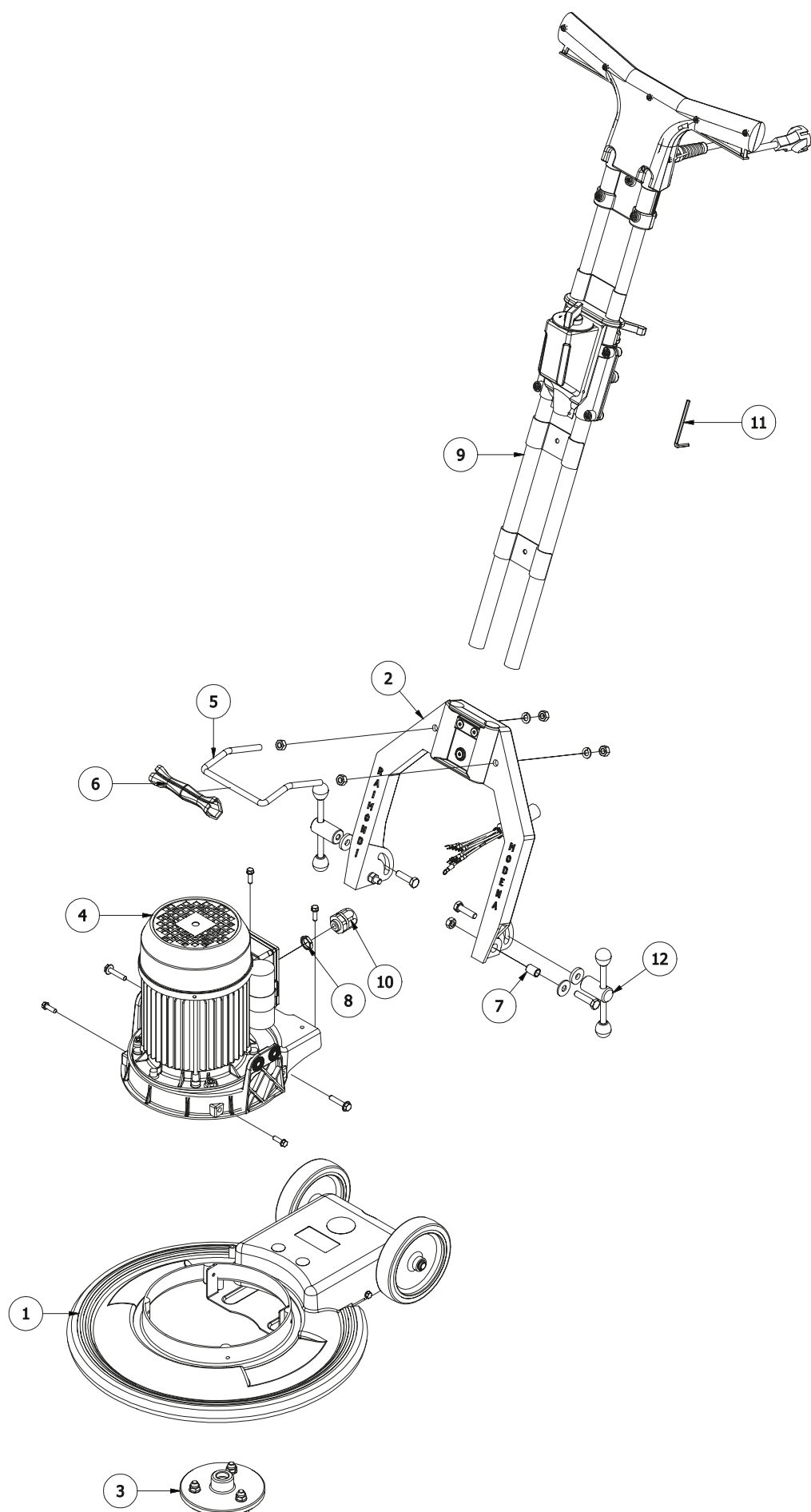
7.1 Trouble-shooting

Problem	Cause	Solutions
The machine does not work	The plug is not correctly inserted in the power socket.	Push the plug completely into the power socket.
	The power supply cable is interrupted.	Check the connection in the terminal board. Replace the power supply cable.
	Lack of tension in the socket.	Control or call an expert to control the socket.
	Microswitch damaged.	Change microswitch.
	Speed change switch damaged.	Change speed switch.
	Motor connection cable damaged.	Change motor connection cable.
The motor turns but the tool doesn't	Worn gearing.	Call the authorized assistance center or your Usual Dealer.
Machine starts with difficulty	Motor without power; smells when running.	Call the authorized assistance center or your Usual Dealer.
	Voltage lower than 230 V at motor terminal board.	Check the supply voltage at the motor terminal board (or have it checked).
	Too much friction between floor and tool.	Start in gear I and switch to gear II when machine is moving. Raise up the machine to assist the starting thrust.
	Damaged starter condenser.	Change condenser.
Abnormal noise coming from gear unit.	No lubricating grease in gear unit.	Call your usual dealer.
	Damaged reduction gear unit.	Add grease to the machine gear unit. Stop the machine immediately and call the authorized assistance center or your usual dealer.

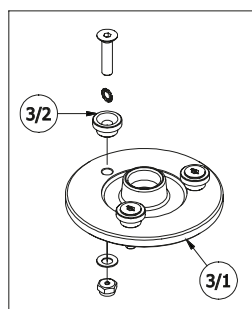
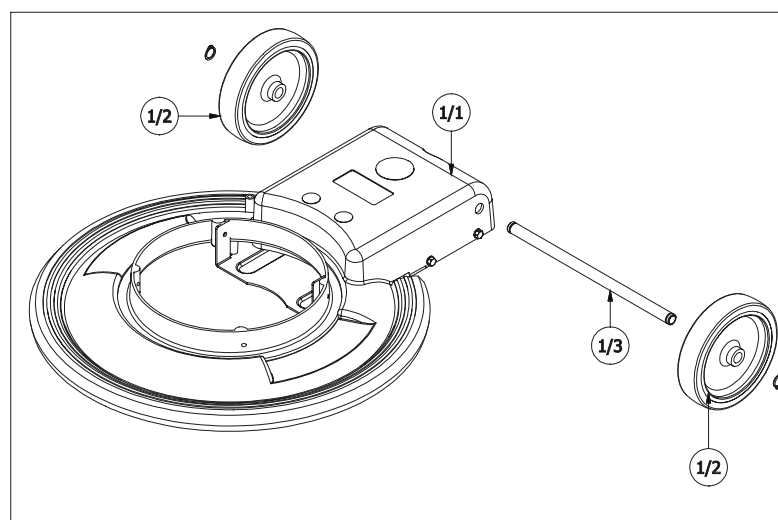
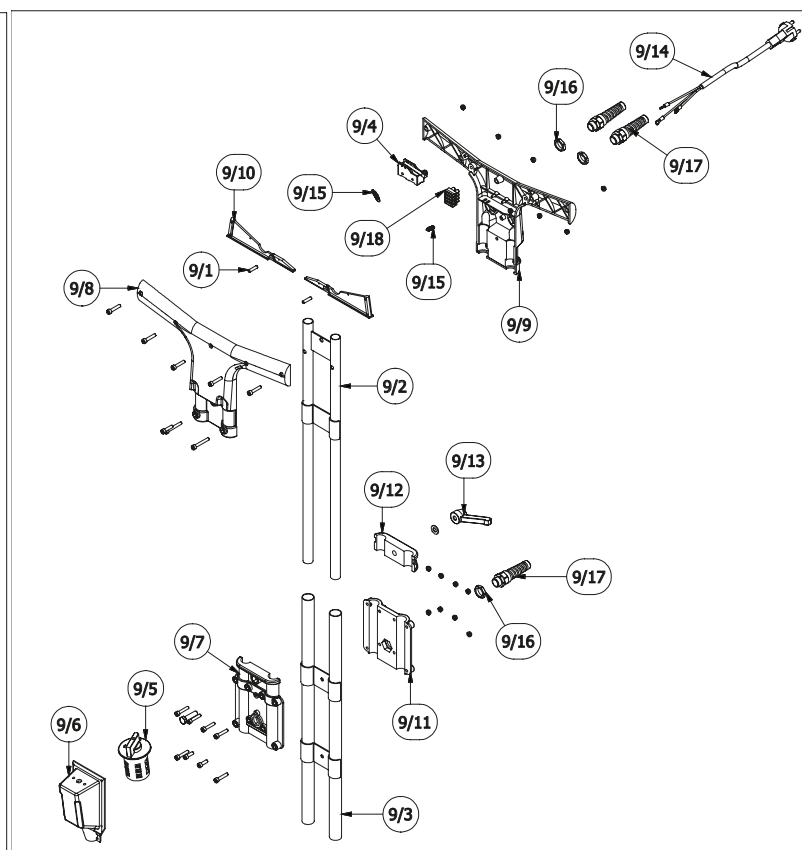
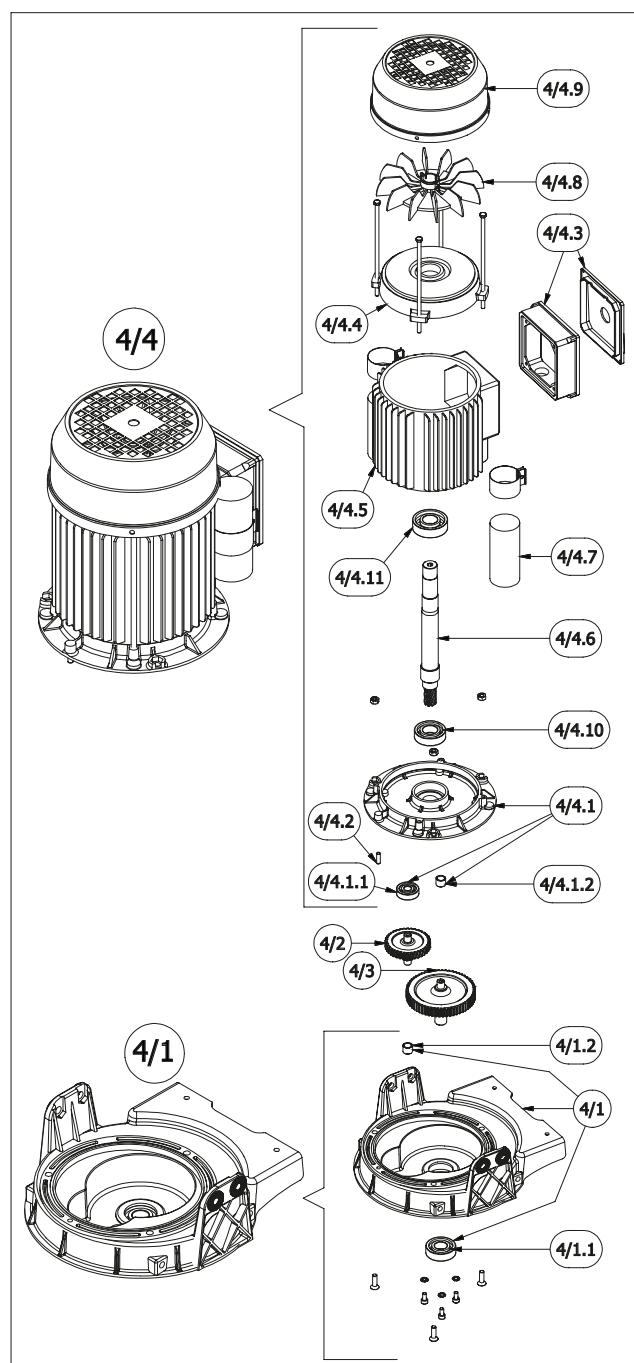
Spare parts and electric diagram

8.1 “Supertitina” spare parts

<i>ELEM.</i>	<i>ART.CODE</i>	<i>DESCRIPTION</i>
1	121SU01A	SKIRT WITH BUFFER AND WHEELS
2	153FA01A	FORK WITH PLATE
3	158FF02A	FLANGE PULLING QUICK COUPLING
4	298MR06D	MOTOR WITH REDUCER MEC 80 0,6KW(0.8HP) 230V 50HZ
4	298MR07D	MOTOR WITH REDUCER MEC 80 0,6KW(0.8HP) 230V 60HZ
4	298MR08D	MOTOR WITH REDUCER MEC 80 0,6KW(0.8HP) 115V 50HZ
4	298MR09D	MOTOR WITH REDUCER MEC 80 0,6KW(0.8HP) 115V 60HZ
5	305MS01D	MOLDED HANDLE M8X20 ZB (MONOBRUSHES)
6	306IG01C	BLACK GRIP
7	310BC04D	BUSHING
8	320GH01C	BRASS NUT 12X16 3/8”GAS
9	319MON	HANDLE WITH ELECTRICAL SYSTEM SHUKO
10	320PG01C	GIRDLE CLAMP 12X16 3/8”GAS
11	323BR02C	ALLEN WRENCH SUPPLY 4 ZB
12	305MA07A	HANDLE LL45 WITH OLIVES M8

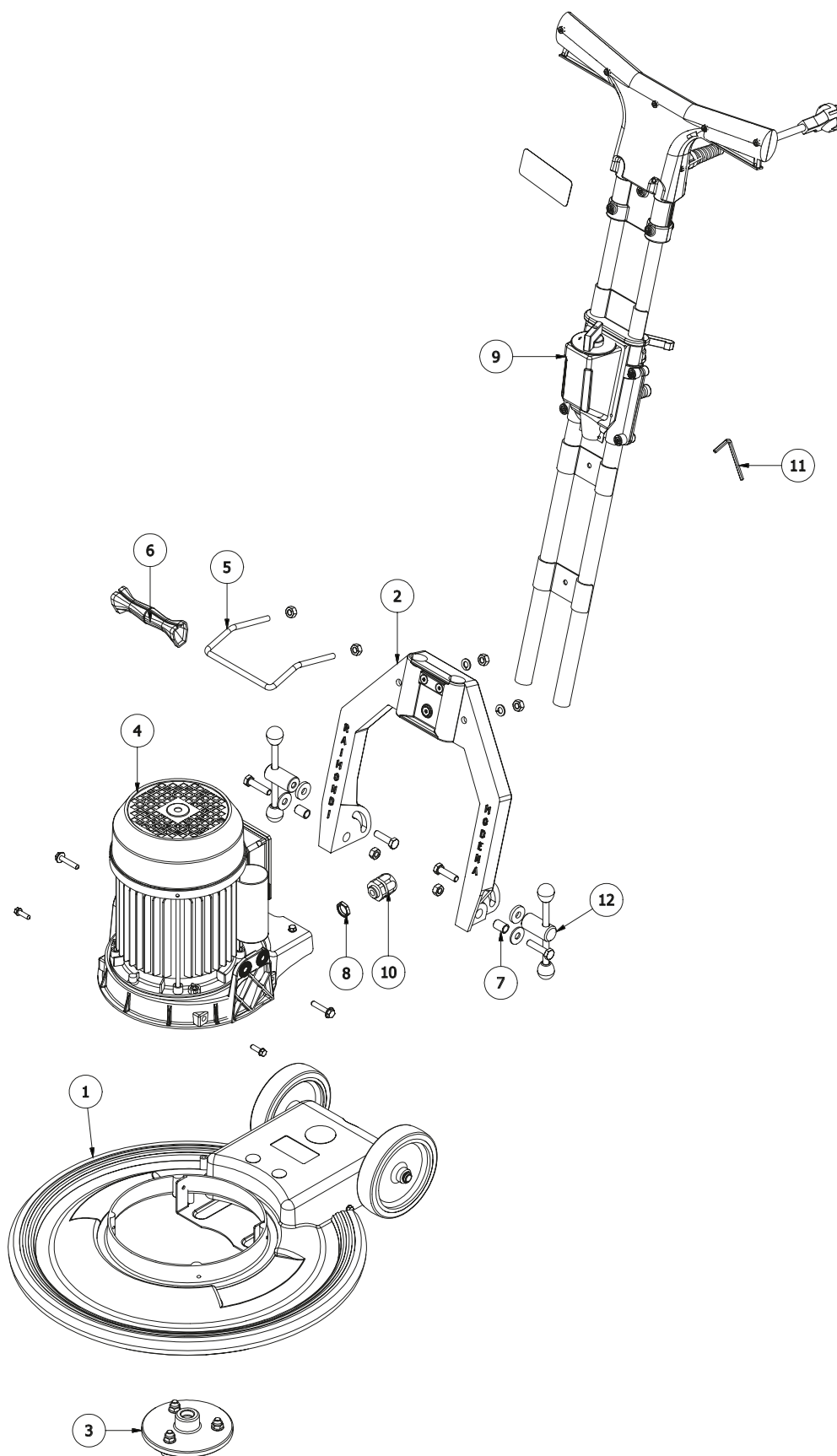


ELEM.	ART.CODE	DESCRIPTION
1/1	121SU02A	WHEELS HOLDER + BUFFER
1/2	315CB10C	WHEEL WITH BUSHING
1/3	317PR06D	PIVOT HOLDING WHEELS
3/1	158FF02D	FLANGE PULLING QUICK COUPLING
3/2	310BS02D	MUSHROOM FOR FLANGE QUICK COUPLING
4/1	122CM01D	REDUCER COVER MT2 WITH BUSHING AND BEARING
4/2	123ES01D	HELICOID SATELLITE GEAR Z37/Z11
4/3	123EV01D	GEAR WITH SCREW Z60 VERTICAL TEETH
4/4	297IN60D	MEC. MOTOR WITHOUT REDUCER 80 0,6KW(0,8 HP)230V 50HZ
4/4	297IN59D	MEC. MOTOR WITHOUT REDUCER 80 0,6KW(0,8 HP)230V 60HZ
4/4	297IN61D	MEC. MOTOR WITHOUT REDUCER 80 0,6KW(0,8 HP)115V 50HZ
4/4	297IN62D	MEC. MOTOR WITHOUT REDUCER 80 0,6KW(0,8 HP)115V 60HZ
4/1.1	3081701C	RAD. BEARING 6203 2RS 17X40X12
4/1.2	310BC11C	SINTERED BUSHING ØE13 Ø10 H10
4/4.1	122FS02D	FLANGE MT1 WITH BUSHING AND BEARING
4/4.1.1	3081001C	BEARING 6200 ZZ Ø10XØ30X9
4/4.1.2	310BC11C	SINTERED BUSHING ØE13 Ø10 H10
4/4.2	122SP01D	CENTERING PLUG REDUCER COVER
4/4.3	247CM06C	MEC. TERMINAL BOARD COVER 80/90
4/4.4	279IN05C	SHIELD MEC.80
4/4.6	281DE02D	MEC. ROTOR 80 HELICOIL TEETH WITH BEARING 0.6KW(0.8HP)
4/4.8	303VM05C	MEC. FAN WITH CLAMP 80
4/4.9	3048001C	MEC. FAN COVER 80
4/4.10	3082002C	RAD. BEARING 6004 2RS 20X42X12
4/4.11	3082003C	RAD. BEARING 6204 ZZ 20X47X14
4/4.5	280AB04C	MEC. STATOR 80 0,6KW(0.8HP) 230V 50HZ
4/4.5	280AC04C	MEC. STATOR 80 0,6KW(0.8HP) 230V 60HZ
4/4.7	2873001C	30MF CONDENSER
4/4.5	280CB04C	STATOR MEC80 0,6KW(0.8HP) 115V 50HZ
4/4.5	280CC04C	STATOR MEC80 0,6KW(0.8HP) 115V 60HZ
4/4.7	2876001C	CONDENSER 60MF
9/1	129SP03D	PLUG Ø5X20
9/2	154MO01D	HANDLE 2 PIPES Ø18
9/3	154MO02D	HANDLE 2 PIPES Ø22
9/4	234MC06C	MICRO 16A FIXED LEVER
9/5	236CM01C	SWITCH 1/0/2 12A
9/6	246PI01D	SWITCH HOLDER
9/7	293G	BIG TELESCOPIC PART FOR HANDLE
9/8	293IMP34	SEMI-GRIP WITHOUT HOLES
9/9	293IMP35	SEMI-GRIP WITH HOLES
9/10	293LEVA	LEVER FOR HANDLE
9/11	293M	MEDIUM TELESCOPIC PART FOR HANDLE
9/12	293P	SMALL TELESCOPIC PART FOR HANDLE
9/13	305MF01C	FEMAL BLACK FIXED HANDLE LL55 M8
9/14	312SK02D	NEOPRENE CABLE (H07RNF) LL.10MT SEZ.3x1.5 PLUG SHUKO
9/15	314TR01D	EXTENSION SPRING
9/16	320GH04C	CABLE NUT BS11
9/17	320PS01C	SPIRAL CABLE NUT PG11
9/18	901MA01C	CLAMP WITH FLAP

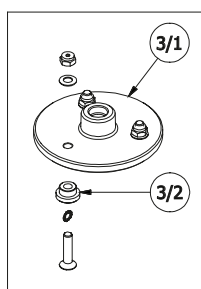
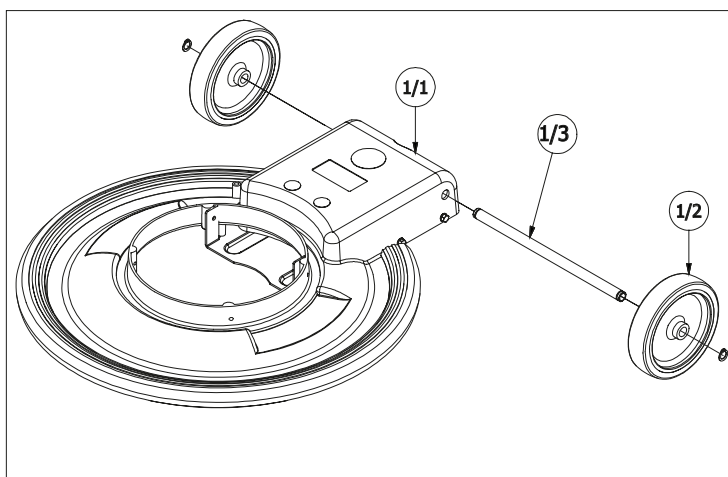
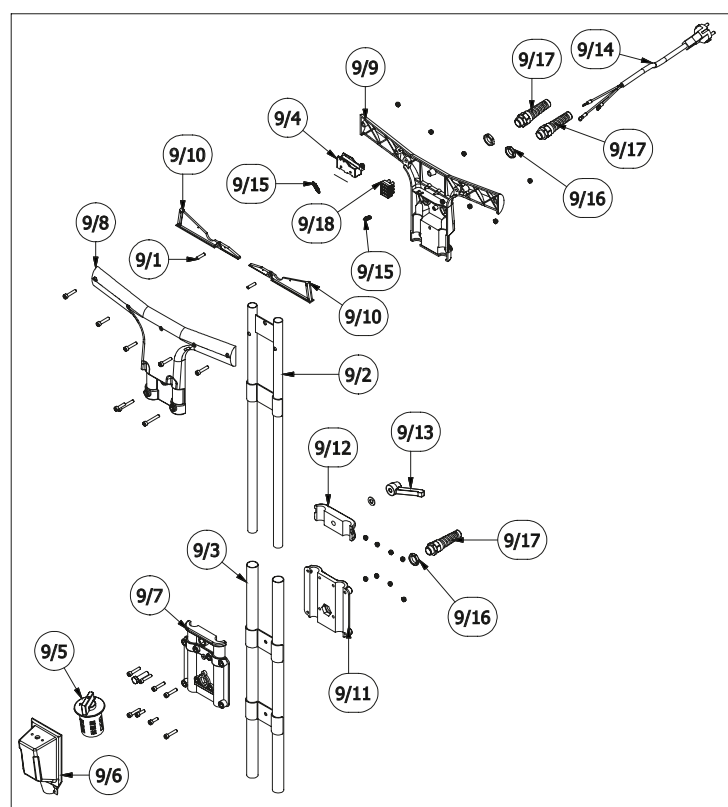
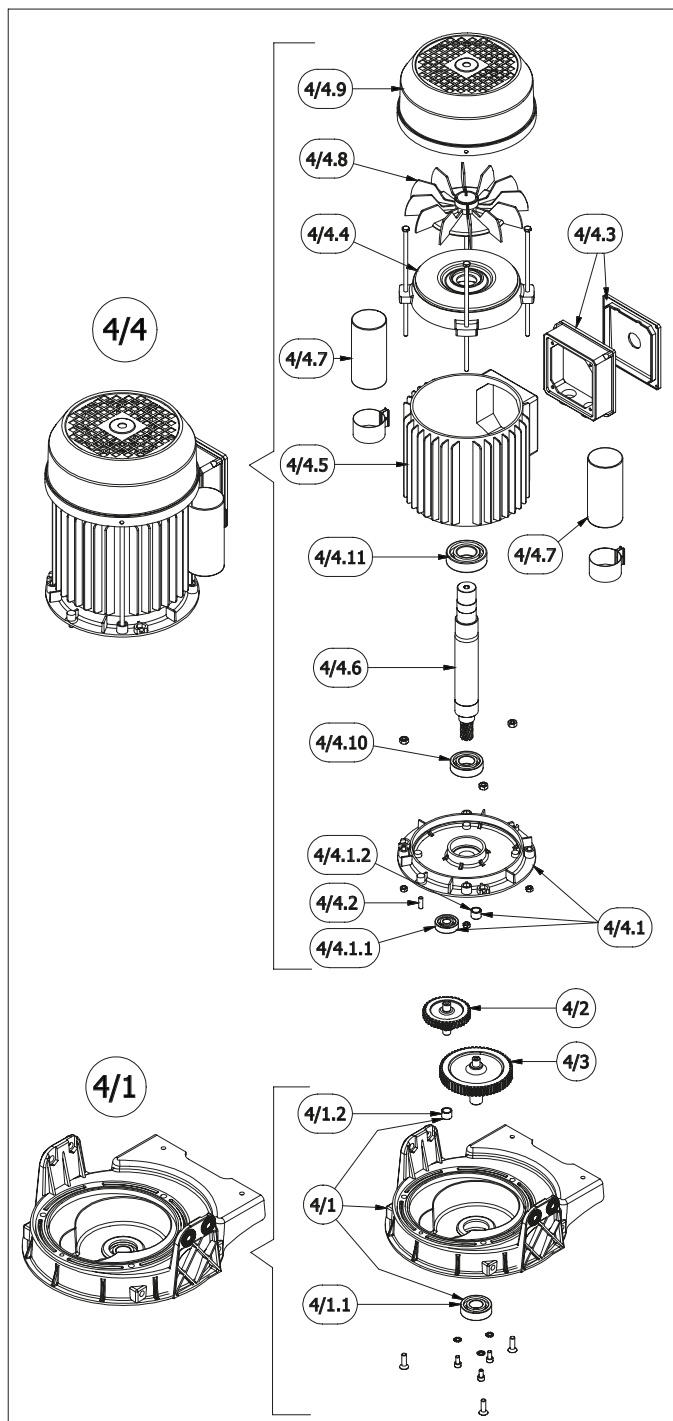


8.2 “Maxititina” spare parts

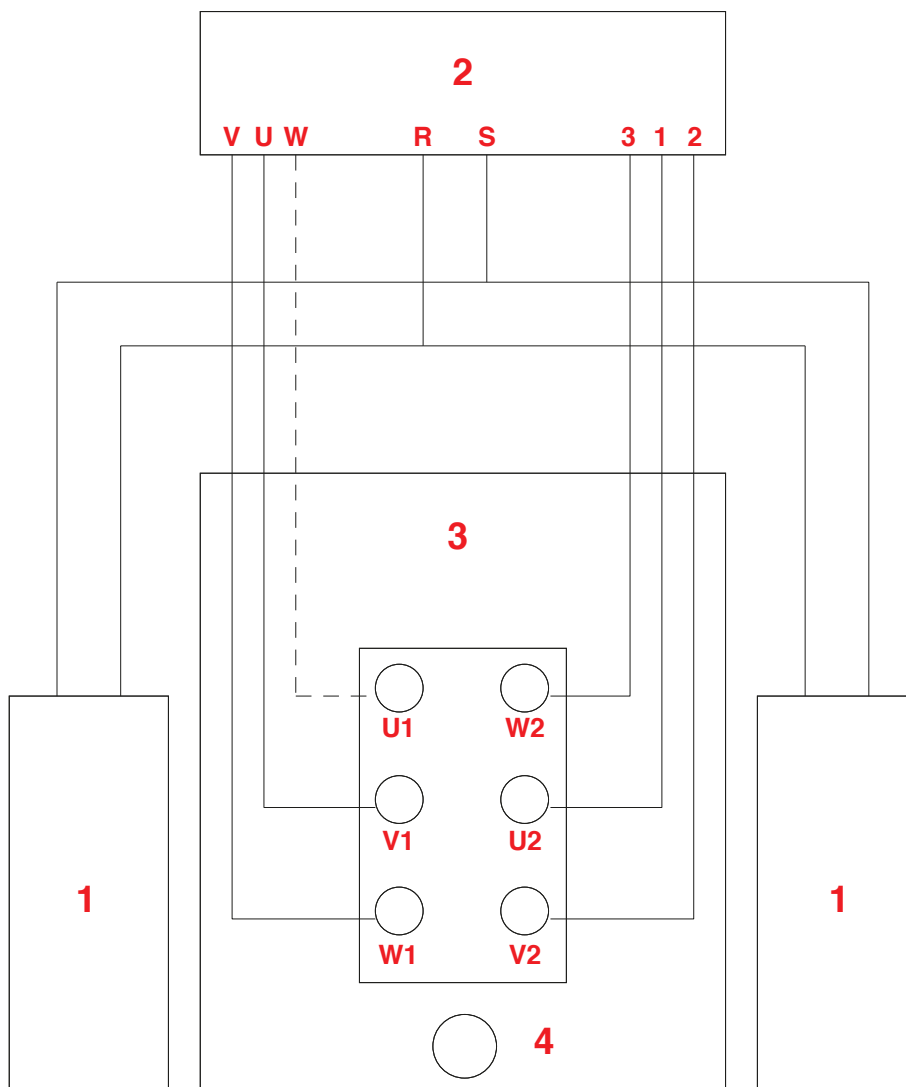
<i>ELEM.</i>	<i>ART.CODE</i>	<i>DESCRIPTION</i>
1	121MX01A	SKIRT WITH BUFFER AND WHEELS
2	153FA01A	FORK WITH PLATE
3	158FF02A	FLANGE PULLING QUICK COUPLING
4	298MR15D	MOTOR WITH REDUCER MEC.90 0,9KW(1.25HP) 230V 50HZ
4	298MR16D	MOTOR WITH REDUCER MEC 90 0.9KW(1.25HP) 115V 50HZ
4	298MR17D	MOTOR WITH REDUCER MEC 90 0.9KW(1.25HP) 115V 60HZ
4	298MR18D	MOTOR WITH REDUCER MEC 90 0.9KW(1.25HP) 230V 60HZ
5	305MS01D	MOLDED HANDLE M8X20 ZB
6	306IG01C	BLACK GRIP
7	310BC04D	BUSHING ØE12 Ø9 H17 ZB
8	320GH01C	BRASS NUT 12X16 3/8”GAS
9	319MON	HANDLE WITH ELECTRICAL SYSTEM SHUKO
10	320PG01C	GIRDLE CLAMP 12X16 3/8”GAS
11	323BR02C	ALLEN WRENCH SUPPLY 4 ZB
12	305MA07A	HANDLE LL45 WITH OLIVES M8



ELEM.	ART.CODE	DESCRIPTION
1/1	121MX02A	WHEELS HOLDER + BUFFER
1/2	315CB10C	WHEEL WITH BUSHING
1/3	317PR06D	PIVOT HOLDING WHEELS
3/1	158FF02D	FLANGE PULLING QUICK COUPLING
3/2	310BS02D	MUSHROOM FOR FLANGE QUICK COUPLING
4/1	122CM01D	REDUCER COVER MT2 WITH BUSHING AND BEARING
4/2	123ES01D	HELICOID SATELLITE GEAR Z37/Z11
4/3	123EV01D	GEAR WITH SCREW Z60 VERTICAL TEETH
4/4	297IN64D	MEC. MOTOR 90 0,9KW(1,25HP)230V 60HZ
4/4	297IN65D	MEC. MOTOR 90 0,9KW(1,25HP)230V 50HZ
4/4	297IN66D	MEC. MOTOR 90 0,9KW(1,25HP)115V 50HZ
4/4	297IN67D	MEC. MOTOR 90 0,9KW(1,25HP)115V 60HZ
4/1.1	3081701C	RAD. BEARING 6203 2RS 17X40X12
4/1.2	310BC11C	SINTERED BUSHING ØE13 Ø10 H10
4/4.1	122FM02D	FLANGE WITH BUSHING AND BEARING (MAXIT/IPERT)
4/4.2	122SP01D	CENTERING PLUG REDUCER COVER
4/4.3	247CM06C	MEC. TERMINAL BOARD COVER 80/90
4/4.4	279IN10C	SHIELD MEC.90
4/4.6	281DE04D	MEC. ROTOR 90 HELICOIL TEETH WITH BEARING 0.9KW(1.2HP)
4/4.8	303VM01C	MEC. FAN WITH CLAMP 90
4/4.9	3049001C	MEC. FAN COVER 90
4/4.10	3082002C	RAD. BEARING 6004 2RS 20X42X12
4/4.11	3082501C	RAD. BEARING 6205 2RS 25X52X15 OF QUALITY
4/4.5	280AB02C	STATORE MEC.90S 0,90KW(1.2HP) 230V 50HZ
4/4.5	280AC02C	STATORE MEC.90S 0,90KW(1.2HP) 230V 60HZ
4/4.7	2874001C	CONDENSATORE 40MF
4/4.5	280CC02C	STATOR MEC90S 0,90KW(1.2HP) 115V 60HZ
4/4.5	280CB02C	STATOR MEC.90S 0,90KW(1.2HP) 115V-50HZ
4/4.7	28780001C	80MF CONDENSER
9/1	129SP03D	PLUG Ø5X20
9/2	154MO01D	HANDLE 2 PIPES Ø18
9/3	154MO02D	HANDLE 2 PIPES Ø22
9/4	234MC06C	MICRO 16A FIXED LEVER
9/5	236CM01C	SWITCH 1/0/2 12A
9/6	246PI01D	SWITCH HOLDER.
9/7	293G	BIG TELESCOPIC PART FOR HANDLE
9/8	293IMP34	SEMI-GRIP WITHOUT HOLES
9/9	293IMP35	SEMI-GRIP WITH HOLES
9/10	293LEVA	LEVER FOR HANDLE
9/11	293M	MEDIUM TELESCOPIC PART FOR HANDLE
9/12	293P	SMALL TELESCOPIC PART FOR HANDLE
9/13	305MF01C	FEMAL BLACK FIXED HANDLE LL55 M8
9/14	312SK02D	NEOPRENE CABLE (H07RNF) LL.10MT SEZ.3x1.5 PLUG SHUKO
9/15	314TR01D	EXTENSION SPRING
9/16	320GH04C	CABLE NUT BS11
9/17	320PS01C	SPIRAL CABLE NUT PG11
9/18	901MA01C	CLAMP WITH FLAP



8.3 Electric diagram



1 Condenser

2 Starter

3 Terminal board

4 Ground



AS TO TECHNICAL DATA SEE THE PLATE VALUE ON EACH COMPONENT.

RAIMONDI WARRANTY

Raimondi electrical machines for professional use satisfy the highest qualitative requirements.
For this reason Raimondi guarantees that your product is free from manufacturing faults.



Warranty Clauses

1. The device is guaranteed for a period of 12 months from the date of purchase.
2. The date indicated on the official receipt or invoice released at the delivery of the device by the seller is valid as date of purchase.
3. The warranty refers to the replacement or free repair of components acknowledged to be faulty due to manufacturing defects.
4. The complete replacement of the product is not provided for.
5. The replacement of components if carried out by the seller will be recognised free after the replaced components will be returned to our place to be examined and found faulty. The costs of labour are not included in the warranty.
6. All transport costs are at the expense of the buyer.
7. The parts subjected to wear are excluded from the warranty. Damages caused by negligence, improper use and installation and any event not dependent from the normal operation of the device.
8. The warranty expires if the devices has been tampered with or repaired by not authorized personnel.
9. The possible repairing intervention under warranty does not imply the extension of the original duration terms of the product warranty.
10. Nobody is authorized to modify the warranty terms or release other warranties, spoken or written, without the written authorization of RAIMONDI S.p.A.
11. The compensation of direct or indirect damages of any nature to people or things for the use or the suspension of use of the device is excluded.
12. Outside the Italian territory and where official importers are present the implementation of the after-sales service falls within the competence of the importers mentioned above.

REGISTER YOUR DEVICE

Raimondi machines are guaranteed for a period of 12 months from the date of purchase.
By registering your Raimondi machinery you will receive a rapid and efficient assistance service. And the advantages do not end here!

How do you register?

Register your own Raimondi device is very easy.

Go to the specific page of the website by scanning the QR CODE on the side with your smartphone or go to the site:
www.raimondispa.com/en/warranty-registration

You will find a simple form to compile where you will be asked few essential data to identify your device.



Thanks for choosing Raimondi

