

multi^{pro}

Electro-pneumatic brushing robot

TEGRAS[®]



user manual

EN

original manual translation

introduction

TEINNOVA.

Dear customer:

Thank you very much for placing your trust in a quality product from TEINNOVA. This product is manufactured using modern production processes and extensive quality assurance measures. We try to do everything possible to ensure that you are satisfied with this product and can work with it without any problems. If you have any questions about this product, please contact your dealer or our company directly. Before operating the machine, carefully read the operating instructions for your equipment. Please consider this manual as part of the machine and keep it handy for future reference.

Training service

We offer the option of providing companies with specific training in the use of our equipment and training their operators to provide the best service and thus contribute to the success of their end customers. Aspects such as knowing how to draw up a good estimate objectively, responding to specific problems that may arise, or offering a more professional and efficient service.

Technical service

Thanks to our own manufacturing of cleaning equipment we can control at all times the quality and performance of each machine we manufacture, and this has allowed us to have very low repair ratios which have always been solved with our own Technical Service led by the same team that manufactures it, and in very short periods of time. We have all types of spare parts for your equipment, as well as related accessories.

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 **symbolology**

All the existing graphic symbols in this manual as well as those indicated on the equipment itself are explained in this section, it is important to read with special attention the text related to this symbology since it is related to personal and equipment safety.

**DANGER!**

This symbol alerts you to a potentially hazardous situation which can result in death or serious injury if the instructions are not followed properly. Be sure to read all instructions described in the "Safety Information" section.

**WARNING!**

This symbol alerts you to a potentially hazardous situation which may result in minor or moderate injury, or property damage resulting in personal injury if you do not properly follow the instructions.

**CAUTION!**

This symbol alerts you to a situation that may result in property damage without personal injury if you do not properly follow the instructions.

**IMPORTANT NOTE!**

This symbol alerts you to information regarding the optimal use of the equipment to avoid possible misuse.

safety warnings

- The MULTIPRO equipment must NOT be used for purposes other than those described in this instruction manual.
- Before starting up the equipment, make sure that all electrical and fluid connections are correct.
- Before starting the equipment, make sure that the brush is inside the duct to be cleaned.
- Be careful to place your MULTIPRO on a smooth and stable surface. Lock the brakes on the front wheels so that the machine remains stable while working.
- Persons operating MULTIPRO equipment must be sufficiently trained.
- Hold the hose firmly before operating the air brush motor. Keep a firm grip on the hose at all times while operating the brush.
- Safety goggles must be worn to prevent chemical splashes or dust from reaching the operator's eyes.
- Properly secure your MULTIPRO and activate the wheel lock when transporting it in a vehicle.
- Do not open the control box of your MULTIPRO duct cleaning robot. In the event of a fault, please contact TEINNOVA's Technical Assistance Service on +34 941 44 50 56.

conditions of use

MULTIPRO is a machine for cleaning both circular ducts, with diameters of 100-1000 mm, and rectangular ducts. Ducts may be for smoke extraction, chimneys or even air-conditioning installations. Suitable fittings must be provided for each duct.

It includes a 30 metre hose so that 60 metres of pipe can be cleaned from a single point on the pipe. It can be used in flues and extraction hoods.

This equipment performs dry or wet cleaning, generating and applying active foam that is subsequently rinsed with water.

It can be used with the AR20 compressor as shown in the diagram.

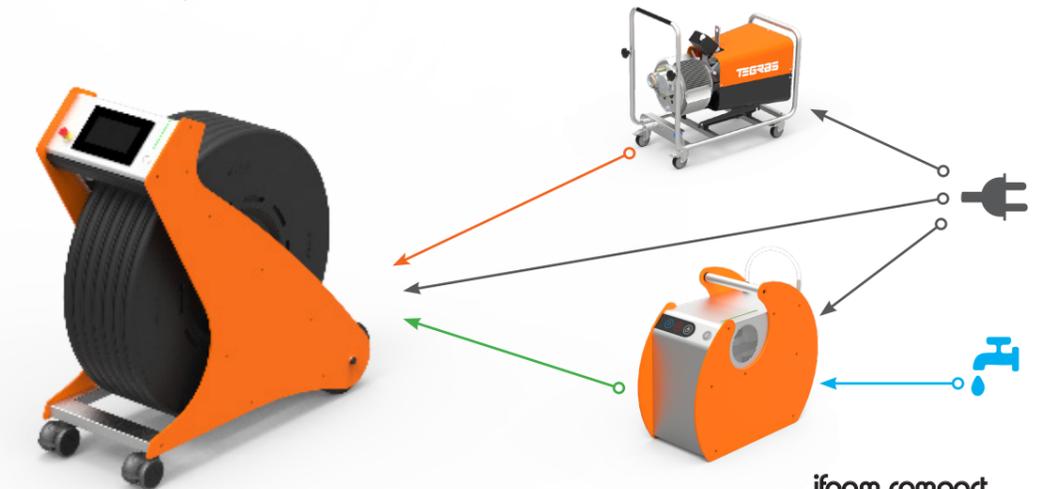
-  Any other use is strictly prohibited without the written permission of the manufacturer.
-  Do not place the equipment in a horizontal position as this will cause serious internal damage.
-  Unless otherwise indicated, the degreasing chemical should be the one recommended by the COMEGRAS manufacturer. The use of a different chemical will void the warranty and may cause irreparable damage to your TEGRAS equipment.

multipro

Electro-pneumatic brushing robot for duct cleaning

AR20

Compressed air generator



LEYENDA

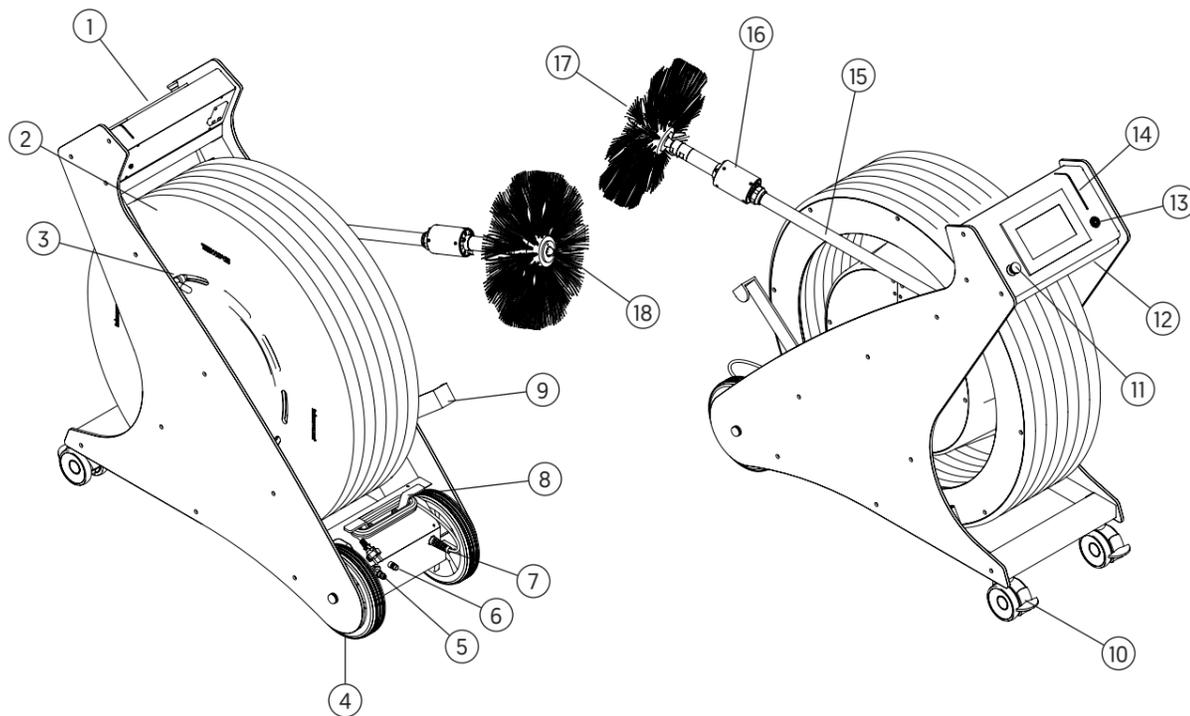
-  chemical and low pressure rinsing
-  power supply
-  compressed air
-  mains water

know your machine

Components:

- 1- Control panel
- 2- Reel
- 3- Reel rotation lock
- 4- Rear wheel
- 5- Liquid inlet
- 6- Compressed air inlet
- 7- Electrical connection cable
- 8- Electrical cable support
- 9- Hose support

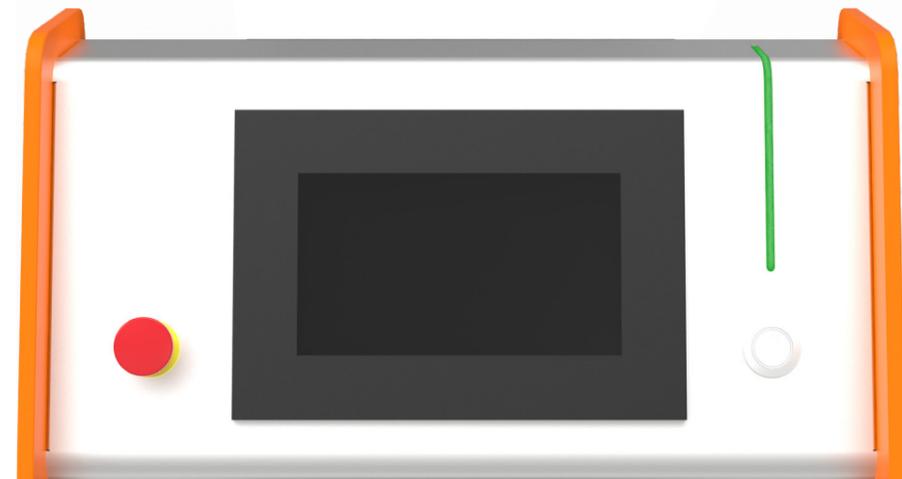
- 10- Front wheel with brake
- 11- Emergency stop button
- 12- Carrying handle
- 13- On/off button
- 14- LED indicator
- 15- Hose
- 16- Brush head
- 17- Brush coupling
- 18- Brush



control panel

Main control panel:

- | | | | |
|---|---|--------------------|---|
| ① |  | Touch screen | The equipment is controlled via the touch screen. |
| ② |  | General Switch | Switching the equipment on and off |
| ③ |  | Emergency Mushroom | Emergency stop |
| ④ |  | LED Strip | Indicates the status of the machine |

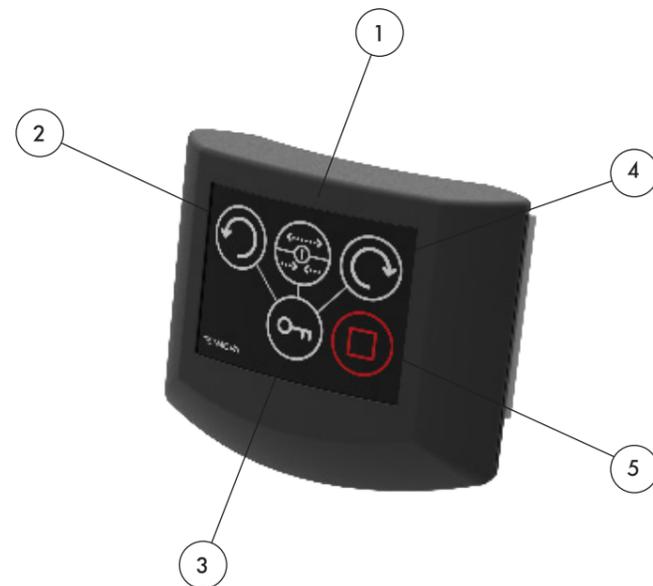




remote control

Remote control:

①		Centring button	Used to open/close/stop the centring device of the MULTIPRO planing machine.
②		Left Turn	Actuates the motor of the planing machine so that its rotational movement is counterclockwise.
③		Unlock button	Button for activating the above functions. In order to start a function, both buttons must always be pressed at the same time.
④		Right Turn	Actuates the motor of the planing machine so that its rotational movement is clockwise.
⑤		STOP	General shutdown of any system in operation.



1 Battery12V.
Alkaline 23A



accessories and related equipment

Accessories included:



Compressed air supply hose

8 metre hose, with standardised connections, specifically for the compressed air supply of your MULTIPRO. The connections correspond to those of the equipment supplied by TEINNOVA.

Cod. AC3303101



Single brush adapter

Coupling in which a specific type of brush is mounted to the head of your MULTIPRO machine. The assembly of this coupling is very simple and consists of four individual parts.

Cod. AC6470020



Double brush adapter

Coupling in which two specific brushes are mounted to the head of your MULTIPRO machine. The assembly of this coupling is very simple and consists of four individual parts.

Cod. AC6470010



The use of two brushes in combination with the double brush adapter effectively cleans flat duct faces and corners.



Brush adapter spare parts kit

Spare parts kit for the different brush adapters of your MULTIPRO.

Cod. AC3303609

accessories and related equipment

Optional accessories:



Pneumatic centring device

Pneumatic system with which the machine head is centred in the duct. It has different sizes of legs (600mm, 800mm and 1000mm) with which ducts with a range of 500mm to 1000mm in diameter can be covered.

Cod. AC3303130



Anti-breakage protector

Anti-breakage protector for the shaft and hose of your MULTIPRO equipment.

Cod. AC3303112



Protective weatherstripping

5 metre protective weatherstrip for registration.

Cod. AC6134102



Extreme brush

Metal strip brush for cleaning the hardest grease. Covers ducts from Ø300 - Ø400; Ø400 - Ø500; Ø500 - Ø600 and Ø600 - Ø700, thanks to the movement of its spatulas on the different blades.

Cod. CP2300515

accessories and related equipment



Remote control

Remote control unit with which you can operate your MULTIPRO equipment.

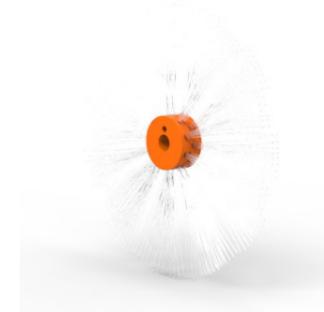
Cod. AC3303604



MULTIPRO visualisation system

System designed to be installed in your MULTIPRO in a simple way and without having to make any modifications to the equipment. Its installation improves the performance of the equipment when performing a better service.

Cod. SV3331035



NYLON Brushes

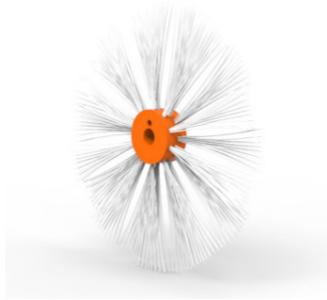
Nylon brushes recommended for cleaning ducts with grade 1 grease (low soiling).

Dimensions		Cod.
mm	in	
100	3,94	CP2010510
200	7,87	CP1011520
250	9,84	CP1011525
300	11,81	CP1011530
350	13,78	CP1011535
400	15,75	CP1011540
450	17,72	CP1012045
500	19,69	CP1012050
600	23,62	CP1012060
700	27,56	CP1012070
800	31,5	CP1012080
1000	39,37	CP1041000

accessories and related equipment

PBT brushes

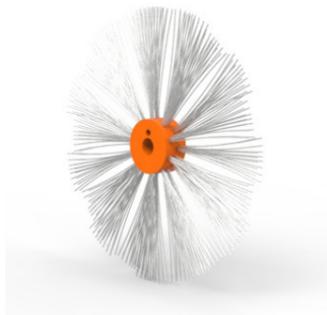
PBT [butylene terephthalate] brushes recommended for cleaning ducts with grade 2 grease [medium dirt].



Dimensions		Cod.
mm	in	
200	7,87	CP1023020
250	9,84	CP1023025
300	11,81	CP1023030
350	13,78	CP1023035
400	15,75	CP1023040
450	17,72	CP1023045
500	19,69	CP1023050
600	23,62	CP1023060
700	27,56	CP1023070
800	31,5	CP1023080
1000	39,37	CP1051000

MIXED Brushes

Steel and nylon brushes recommended for cleaning ducts with grade 3 grease [high soiling].



Dimensions		Cod.
mm	in	
200	7,87	CP1032820
250	9,84	CP1032825
300	11,81	CP1032830
350	13,78	CP1032835
400	15,75	CP1032840
450	17,72	CP1032845
500	19,69	CP1032850
600	23,62	CP1032860
700	27,56	CP1032870
800	31,5	CP1032880

accessories and related equipment

PACK X5 NYLON

Pack of 5 nylon brushes recommended for cleaning ducts with grade 1 grease [light dirt]. The brushes range in size from 300mm to 800mm diameter.

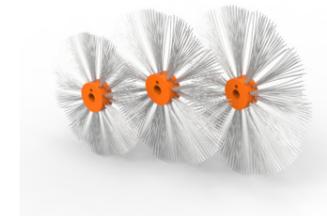


Cod. CP1101520

Dimensions		Cod.
mm	in	
300	7,87	CP1011530
400	11,81	CP1011540
600	15,75	CP1011560
700	19,69	CP1012070
800	23,62	CP1012080

PACK X5 PBT

Pack of 5 PBT brushes recommended for cleaning ducts with grade 2 grease [medium dirt]. The brushes range in size from 200mm to 600mm diameter.



Cod. CP1203030

Dimensions		Cod.
mm	in	
200	7,87	CP1023020
300	11,81	CP1023030
400	15,75	CP1023040
500	19,69	CP1023050
600	23,62	CP1023060

accessories and related equipment



PACK X5 MIXTO

Pack of 5 mixed brushes recommended for cleaning ducts with grade 3 grease [high dirt]. The size range of the brushes is from 200mm to 600mm diameter.

Cod. CPI302828

Dimensions		Cod.
mm	in	
200	7,87	CPI032820
300	11,81	CPI032830
400	15,75	CPI032840
500	19,69	CPI032850
600	23,62	CPI032860

accessories and related equipment

Accessories included in the MULTIPRO Visualisation System:



Visualisation system

Equipment specially designed to visualise the inside of ducts during cleaning work.

Cod. AC3303420



Camera for MULTIPRO

HD camera, with built-in self-levelling and illumination, designed for easy installation in the head.

Cod. AC3303414



Briefcase

Case designed to store the MULTIPRO Visualisation System, optimising its storage space to the maximum.

Cod. AC3303403

accessories and related equipment

Related equipment:



AR20

Vane compressor generating a compressed air flow of 240 litres at 10 bar.

220V 50Hz; Cod. TG3330201
110V 60Hz; Cod. TG3330500



AR18

Piston compressor that generates a compressed air flow of 260 liters at 9 bar.

110V 60Hz; Cod. CO3330205



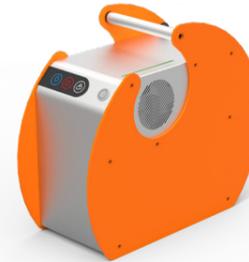
AR16

Piston compressor that generates a compressed air flow of 280 liters at 10 bar.

220V 50Hz; Cod. CO3330206

accessories and related equipment

Related equipment:



ifoam compact

Intelligent active foam generator and rinse aid.

230V 50/60Hz; Cod. TG3320337
110V 50/60Hz; Cod. TG3320343



ifoam pro

Intelligent low pressure active foam generator and low and high pressure rinsing.

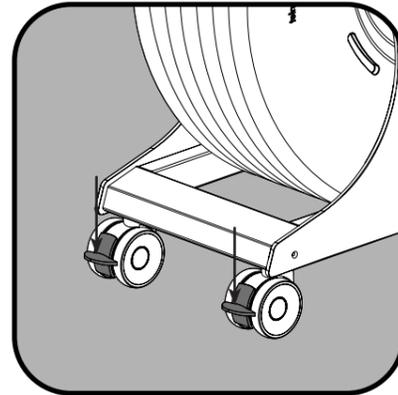
230V 50Hz; Cod. TG3320400
230V 60Hz; Cod. TG3320402
110V 60Hz; Cod. TG3320401

operating instructions

Steps for the correct installation of your MULTIPRO:

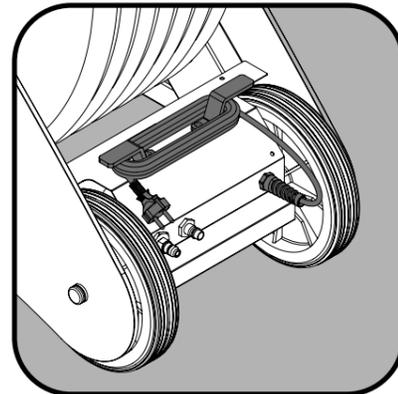
1 Placement of your MULTIPRO:

Place your MULTIPRO on a smooth and stable surface. Once the machine is in an optimal position for the work to be carried out, lock the brakes on the front wheels to keep the machine stable.



2 Connection to the mains:

Make the electrical connection of the supply hose to the mains, making sure that the connector is suitable for the type of plug.



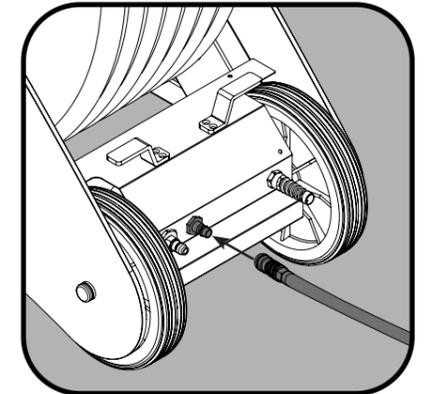
operating instructions

3 Connection of your MULTIPRO to the compressed air generator:

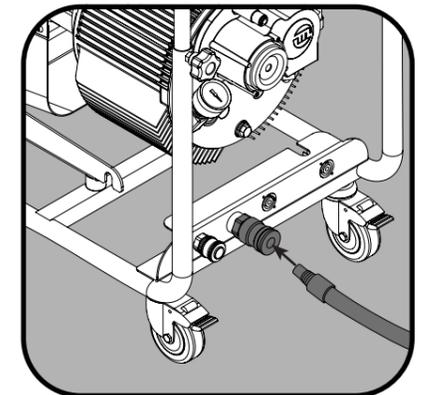
The MULTIPRO unit must be used in combination with a compressed air generator for operation. This compressed air generator must have a minimum performance of 200 l/min at 5 bar. The use of a compressed air generator marketed by Teinnova is recommended.

The connection is made via the compressed air supply hose. The connection must be made with your MULTIPRO switched off.

Connect the compressed air hose to your MULTIPRO.



Connect the compressed air hose to the compressor to be used. In this picture, the connection is made with the compressed air generator AR20.



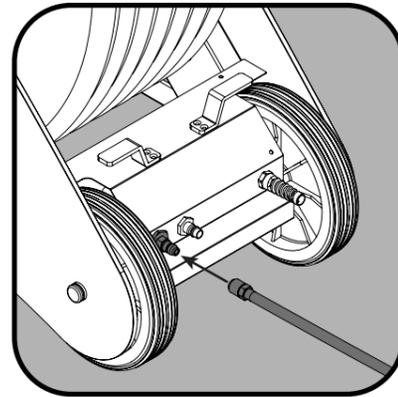
operating instructions

4 Connection of your MULTIPRO with the IFOAM COMPACT:

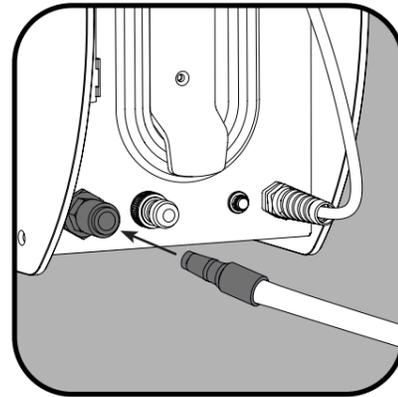
The MULTIPRO unit must be used in combination with the IFOAM COMPACT unit for operation.

This connection is made by means of the low pressure hose incorporated in the IFOAM COMPACT unit. The connection must be made with both units switched off.

Connect the liquid connection hose of your IFOAM COMPACT to your MULTIPRO unit.



Connect the liquid hose to your IFOAM COMPACT.



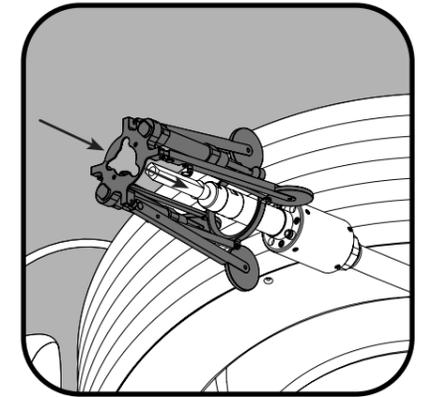
operating instructions

5 Fitting of accessories:

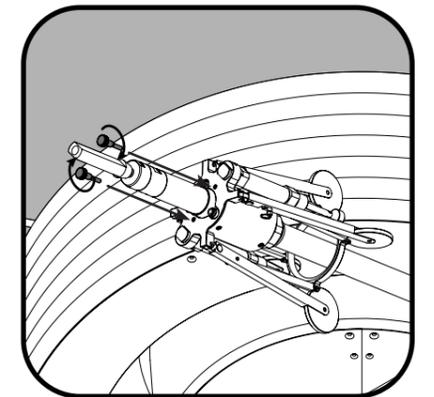
The head of your MULTIPRO is designed considering the option of incorporating various accessories, supplied by TEINNOVA, allowing the work to be carried out in a more efficient and comfortable way.

Assembly of the centring device:

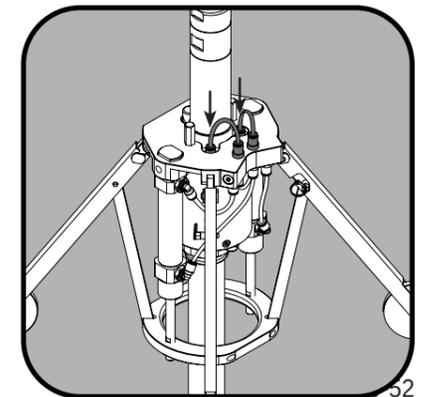
Place the centring pin on the head as shown in the figure.



Fix the centring device to the head by means of two fixing screws. The fastening is done by turning the 2 screws simultaneously clockwise, as shown in the figure.



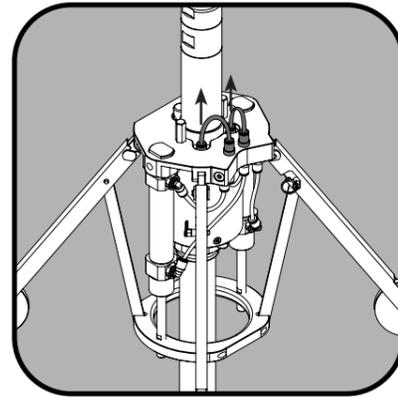
Connect the compressed air outlet port of the compressed air head to the opening and closing circuit of the pneumatic cylinders, as shown in the figure.



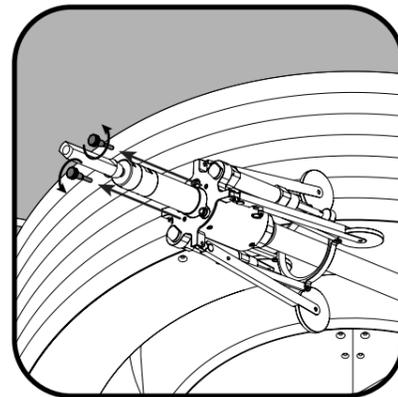
operating instructions

Disassembly of the centring device:

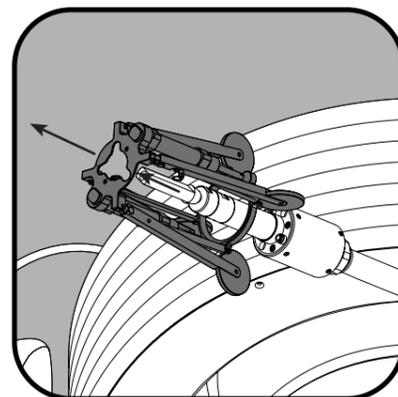
Disconnect the compressed air outlet port of the compressed air head with the line of the opening and closing circuit of the pneumatic cylinders, as shown in the figure.



Release the centring device from the head by means of two fixing screws. This is done by turning the 2 screws simultaneously counterclockwise, as shown in the figure.



Separate the centring device from the head as shown in the figure.

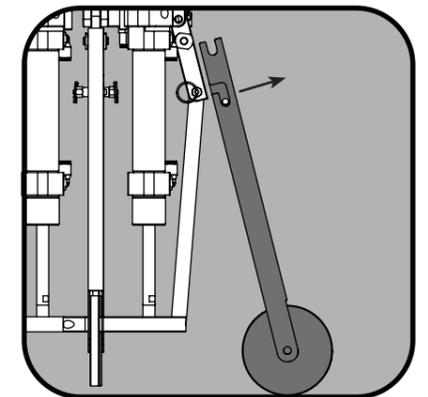
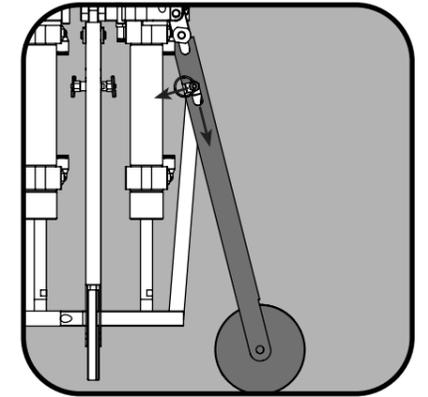


operating instructions

Assembly / disassembly of the centring feet:

To remove the leg, pull the locking pin and slide the leg downwards. Once it is free, pull it out to the side. Do the same with the rest of the legs.

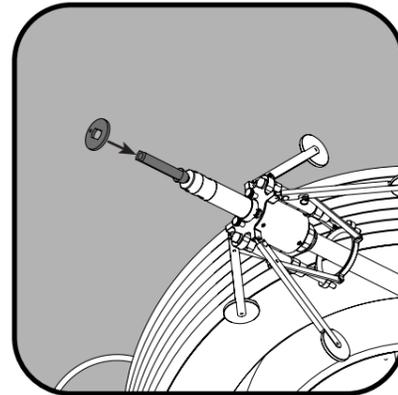
To replace the legs, whether they are 600, 800 or 1000, repeat the same steps in the opposite direction.



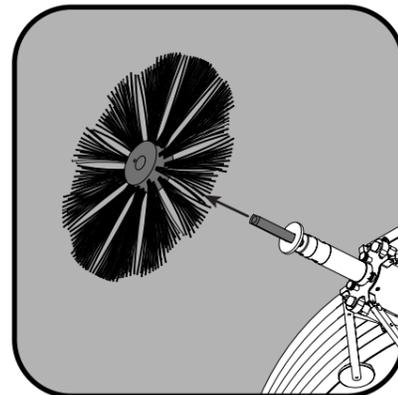
operating instructions

Brush assembly:

Fit the retaining disc as shown in the figure.

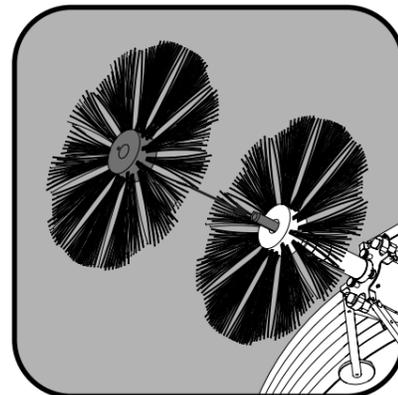


Remove the brush as shown in the figure.



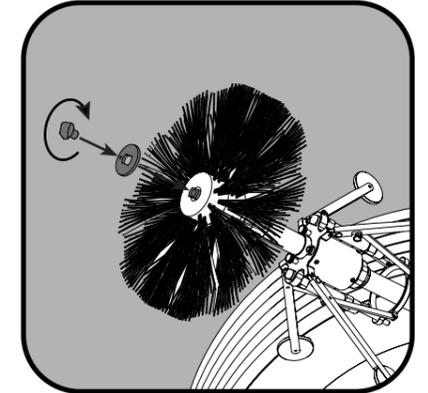
 Align the brush retaining hole in the disc retaining bolt placed in the previous assembly step.

In case of double coupling, fit two brushes as shown in the figure.



operating instructions

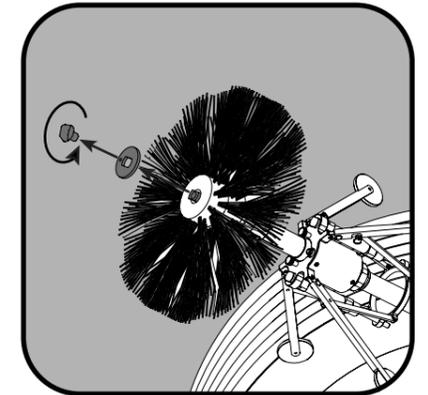
Fit the second retaining disc and tighten the locking knob as shown in the figure.



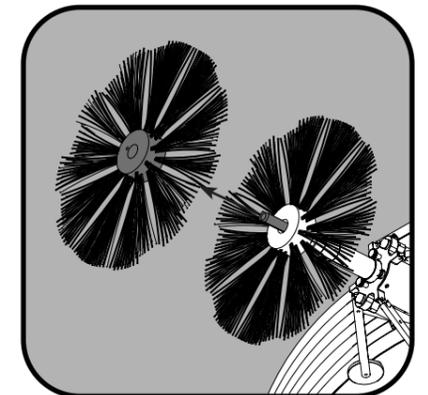
 Align the brush retaining hole in the disc retaining bolt.

Disassembly of the brush:

Release the locking knob and remove the second retaining disc as shown in the figure.

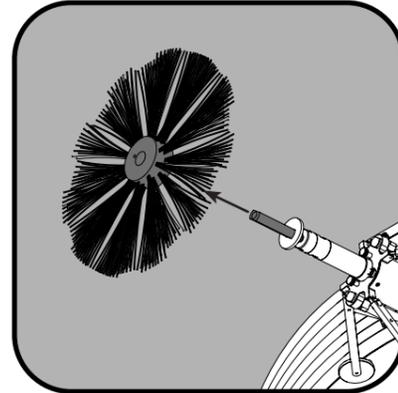


Remove the first brush as shown in the figure.

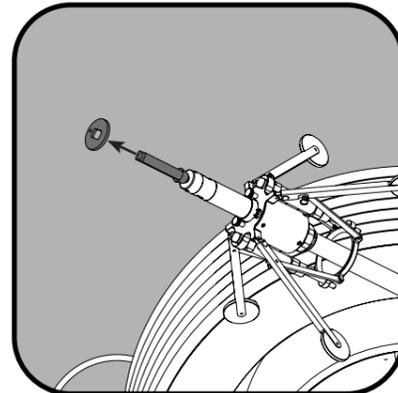


operating instructions

Remove the brush as shown in the figure.



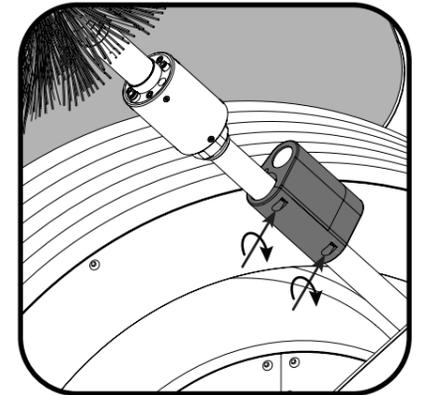
Remove the retaining disc as shown in the figure.



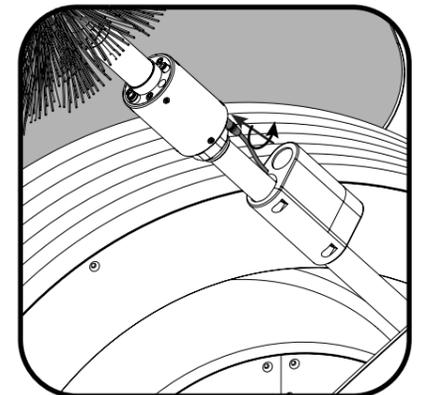
operating instructions

Camera mounting:

Connect the different parts of the chamber, placing the hose in between, with four fixing screws as shown in the figure.



Connect the camera to the head.
The connector has only one position. Fit it and then turn the nut until it is fixed.



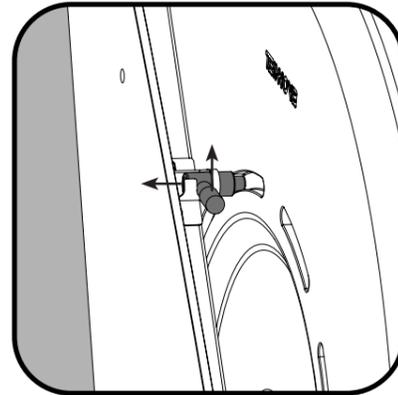
operating instructions

6 Unlock the hose reel brake:

Release the brake on the reel of your MULTIPRO as shown in the figure. Once the reel is released, release the necessary number of metres to place the brush in the duct and start working.

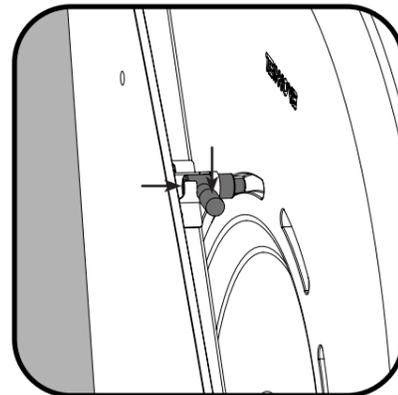
 Remember not to operate the brush when it is outside the duct, as this may cause damage to persons or objects.

 DO NOT subject the hose to very tight angle bends, as this may break the reinforcement guide inside the hose.



Once the work is completed, pick up the hose and lock the reel brake of your MULTIPRO as shown in the figure.

 To pick up the hose, push it horizontally into the unit, as it may get stuck if you try to push it in at an angle.



operating instructions

Selection of the function to be performed:

By means of the control panel on the HMI screen, the function to be performed is selected. Depending on the function selected, the LED on the unit changes colour.

1 Switching on the equipment:

Switch on your MULTIPRO by pressing the on/off button. The LED strip will turn green, dimming up and down, and the main display will light up.

-  Help
-  Settings
-  Go to



2 Working mode:

Pressing the forward icon will take you to the control panel of the unit where you will find all the functions it can perform. The LED strip will remain the same.



operating instructions

3 Turn the brush to the left:

To activate the left-hand brush rotation, press the icon , which will light up green.
The LED strip will light up progressively, in green, from bottom to top, remaining in continuous movement.



4 Turn the brush to the right:

To activate the clockwise rotation of the brush, press the icon , which will light up green.
The LED strip will light up progressively, in green, from top to bottom, remaining in continuous movement.



5 Stop the brush rotation:

Press the stop button to stop the brush from rotating.
The LED strip will turn green, with increasing and decreasing intensity, and will remain in standby mode.



operating instructions

6 Open centring pin:

To open the centring device, press the icon , which will light up green.
The LED strip will remain green, with increasing and decreasing intensity.



7 Close centring device:

To close the centring device, press the icon , which will turn green.
The LED strip will remain the same.



8 Air outlet of the centring device:

Press the stop button on the centring device to shut off the air outlet and release it from the duct.
The LED strip will remain green, with increasing and decreasing intensity.



operating instructions

9 Select automatic turnaround:

Press the icon  to activate the automatic mode. You will be taken to another screen.

Here you can select the time, from 10 to 60 seconds, in which the brush will change direction.

Once selected, press again the icon , which appears on the screen, and the brush will start to rotate to the right.

The LED strip will change its movement according to the direction of rotation that is activated.



10 Stopping the automatic mode:

Press the stop button to stop the brush from rotating, deactivating the automatic mode. The LED strip will go into sleep mode.



operating instructions

11 Activate remote control:

Press the remote control icon to activate the remote control. The LED strip will change colour to blue.

The display will then be disabled except for the auto mode button. The remote control must be used to select the function, and then the icons will light up.



12 Turn the brush to the left:

To activate the left-hand brush rotation, the button  must be pressed at the same time as the unlock button.

The left-hand swivel icon will light up on the display.

The LED strip will light up progressively from bottom to top, remaining in continuous movement.

To deactivate it, press the turn button again.



13 Turn the brush to the right:

To activate the clockwise rotation of the brush, the button  must be pressed at the same time as the unlock button.

The clockwise rotation icon will light up on the display. The LED strip will illuminate progressively from top to bottom, remaining in continuous movement.

To deactivate it, the rotation button must be pressed again.



operating instructions

14 Open centring device:

To open the centring device, press the button  at the same time as the unlock button. The icon for opening the centring device will light up on the display. The LED strip will remain green in colour, with increasing and decreasing intensity.



15 Close centring device:

To lock the centring device, press the button  at the same time as the unlock button.

The icon for closing the centring device will light up on the display. The LED strip will remain the same as above.

To stop the centring device, simply press the button  again at the same time as the unlock button. All icons on the screen will turn off.



operating instructions

16 Select automatic mode:

Press the icon  to activate the automatic mode. You will be taken to another screen.

Here you can select the time, from 10 to 60 seconds, in which the brush will change direction.

Once selected, press the icon  again, which appears on the screen, and the brush will start to rotate to the right.

The LED strip will turn light blue and change movement depending on which direction  of rotation is activated.

It can also be activated from the remote control by pressing the lock button and the turn button (left or right) for 3 seconds.

The LED strip will turn light blue, the same as if activated from the display.



17 Stopping the automatic mode:

Press the stop button to stop the brush from rotating, deactivating the automatic mode.

The LED strip will go into standby mode.

The stop button on the control deactivates all the functions of the equipment, deactivating the brush rotation and the liquid output.



operating instructions

23 Equipment settings:

Pressing the settings icon will bring up a screen where you can change the language of the equipment, activate or deactivate the vision system and link a remote control.



To turn on the vision system, click on the icon , which will light up to show that the camera is on.

To turn off the vision system, click on the same icon again.

The LED strip will remain the same.



To link a controller, press the icon  on the left of the screen. The LED strip will turn blue and flash for 20 seconds.

Then press the left turn button at the same time as the unlock button.

When the LED strip stops flashing, do the same process with the icon  on the right side of the screen and the right turn button at the same time as the unlock button.

The remote control will be linked.

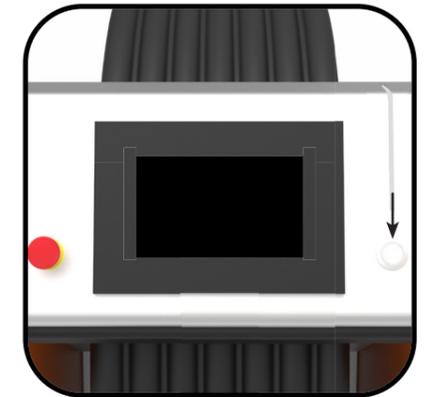
After 20 seconds, the LED strip will return to its normal state and work can continue.



operating instructions

24 Switching off the equipment:

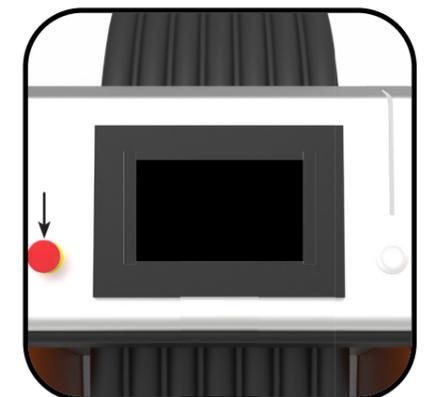
Switch off your MULTIPRO by pressing the on/off button. The LED strip will turn off.



25 Emergency stop:

If a dangerous situation arises, the emergency stop button must be pressed and the device will stop immediately.

To reset the equipment, turn the knob to the right.



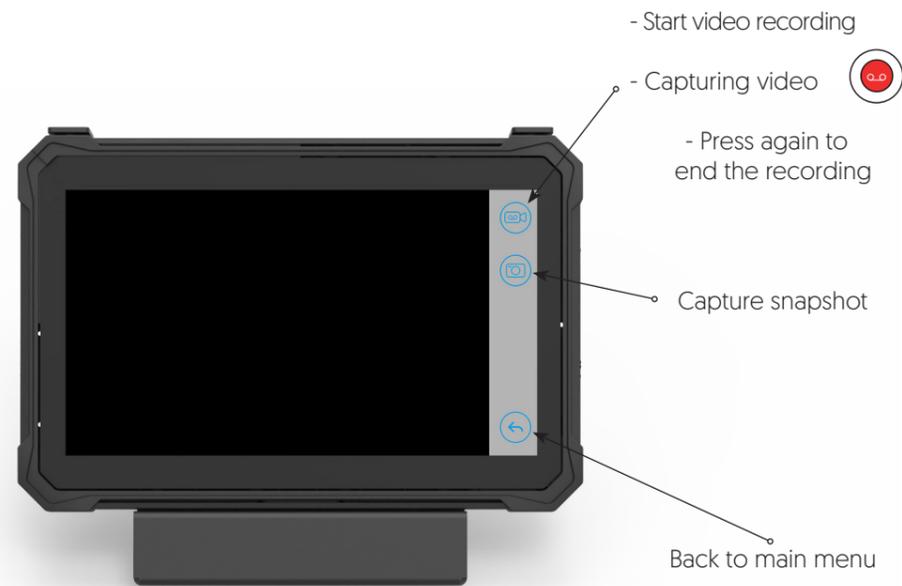
operating instructions

Visualisation system:

1 Main menu:



2 Video/image display and capture:



operating instructions

Visualisation system:

3 Playback and file management:



4 Video and image playback:



operating instructions

Visualisation system:

5 Configuration and settings:



6 Help:

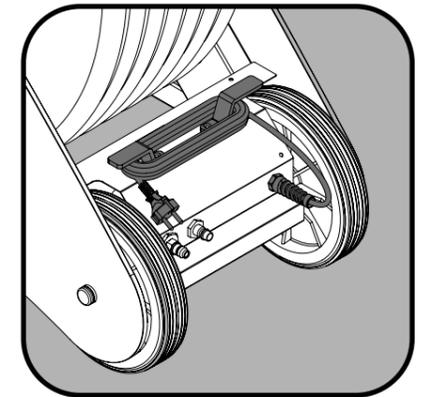


operating instructions

Steps for the correct disconnection of your MULTIPRO:

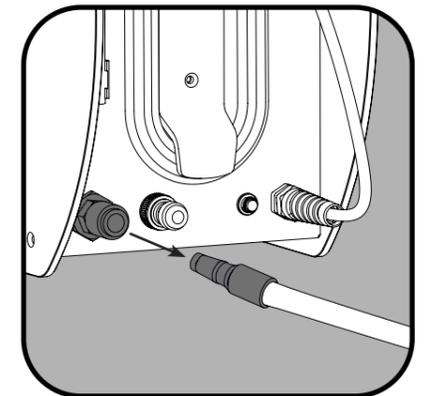
1 Disconnection from the mains:

Disconnect the mains cable and place it in the bracket.

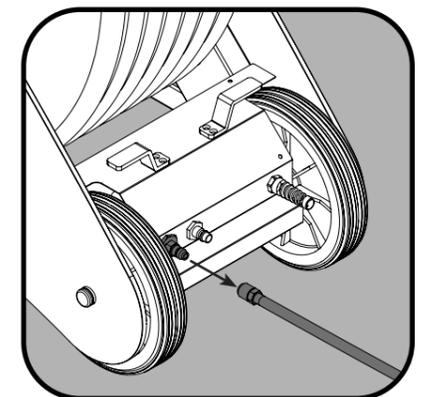


2 Disconnection of your MULTIPRO with the IFOAM COMPACT device:

Disconnect the liquid hose from your IFOAM COMPACT.



Disconnect the liquid connection hose from your MULTIPRO equipment.

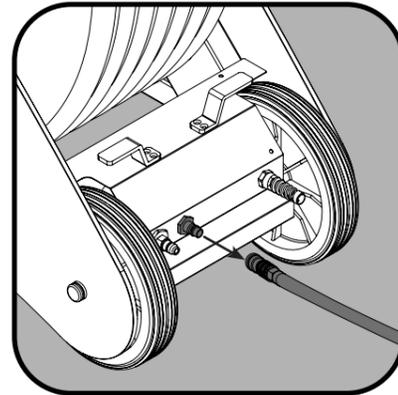


operating instructions

4 Disconnect the compressed air hose from your MULTIPRO:

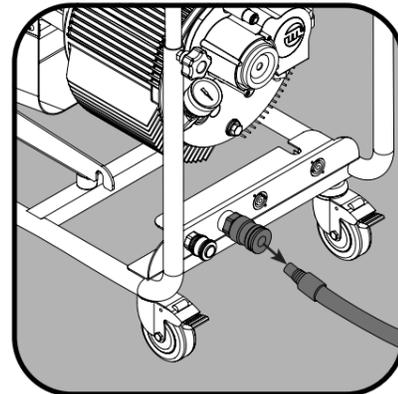
Remove the compressed air inlet connection from your MULTIPRO as shown in the figure.

Before removing the connection, turn the motor to remove any remaining pressure in the compressed air circuit, with the compressor switched off, to remove any remaining pressure in the compressed air circuit.



5 Disconnecting the compressed air generator from your MULTIPRO:

Remove the outlet connection of the compressed air generator as shown in the figure.



use of chemicals

COMEGRAS FOAM ACTIVE is the chemical used for the operation of your MULTIPRO.

It is a degreasing agent especially indicated for cleaning, sanitising and deodorising areas particularly dirty with grease and burnt residues from installations and materials in the food industry such as meat, slaughterhouses, restaurants, dairies, etc.

Particularly suitable for use on filters, extractor hoods, smoke extraction ducts, floors, walls, as well as on all heavily and persistently soiled surfaces.

 Before starting cleaning, it is very important to read the product label to know the properties, applications, instructions for use and precautions to be taken into account when using COMEGRAS FOAM ACTIVE.

 Wear PPE to prevent splashing or inhalation of vapours released by the chemical.

 The use of PPE when working with the machine is compulsory by Law 31/1995, on the Prevention of Risks at Work.

PPE to be used when operating your MULTIPRO:

	full face protection	Protects against particle projections and splashes. The standard governing this PPE is UNE EN 166:2002 "Eye protection. Specifications".
	full body protection	Protects against projections to the body from accidental chemical splashes. The standard that regulates this PPE is UNE EN 13034:2005.
	full hand protection	It protects the hands from accidental chemical splashes and from mechanical risks such as burns. The standard governing this PPE is UNE EN 420:2004 and UNE EN 374-1:2004.
	full respiratory protection	Protects against inhalation of vapours produced by the chemical. The standard governing this PPE is UNE EN 136:1998.

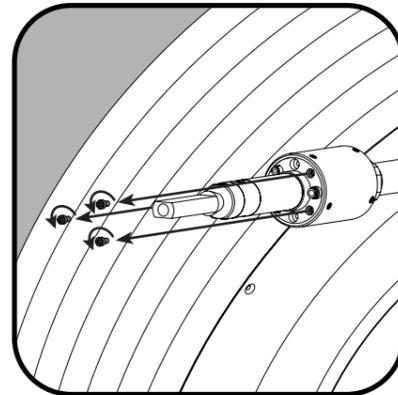
maintenance and care

Maintenance operations:

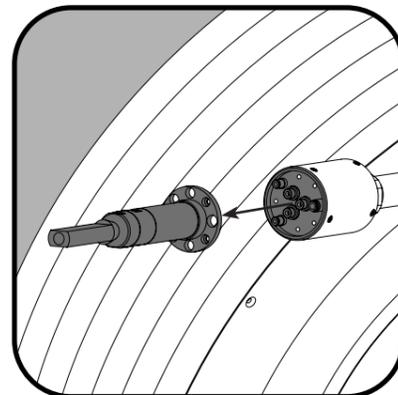
1 Lubrication of the head air motor:

In order to carry out maintenance work on the head, the head has to be disassembled. One of the maintenance tasks is to lubricate the inside of the air motor. The replacement of parts will be carried out at Teinnova's facilities by the company's technical staff.

To remove the head, the three fastening screws shown in the figure must be loosened. To loosen them, turn them counterclockwise.



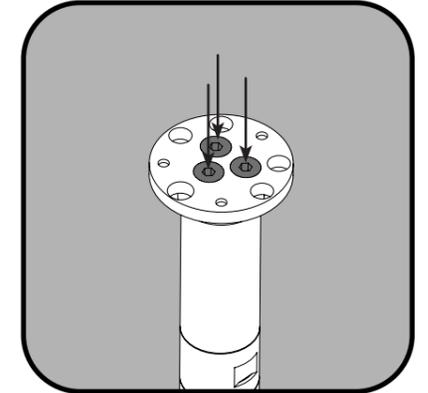
Remove the head as shown in the figure.



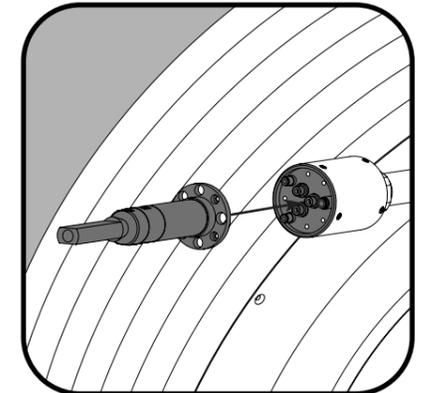
maintenance and care

To lubricate the inside of the pneumatic motor of the head, pour two or three drops of oil into the holes as shown in the figure.

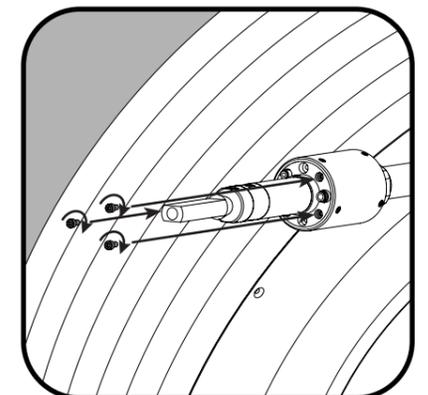
 We recommend the use of oil with a SAE 20 classification for the correct maintenance of your MULTIPRO engine.



Position the head, as shown in the figure, making sure that it is centred.



To mount the head, the three fastening screws shown in the figure must be tightened. Tighten them by turning them clockwise.



transport

The machine has been designed to be transported in a small van.

During transport the machine must be securely tied down to prevent any damage. It should be placed in its normal working position (upright) and the brakes on the front wheels should be applied.

It is not advisable to place the machine on a transport pallet or similar. The machine must rest on a completely flat and horizontal surface.



The machine must never be placed in a horizontal position (lying down) for transport. This would result in serious damage to the machine and therefore in the machine malfunctioning.



Clean all parts of the machine thoroughly before loading it for transport.



maintenance and care

Spare parts:

TEINNOVA has spare parts for all parts of the machine as well as consumables for all the maintenance tasks indicated in this manual.

Should you require any parts or consumables, please contact TEINNOVA Customer Service on +34 941 44 50 56.



Use this QR code to access information about the device's battery.

waste management



The materials used in the packaging are recyclable.
Do not dispose of the packaging in household waste, but hand it in at official collection points for recycling.

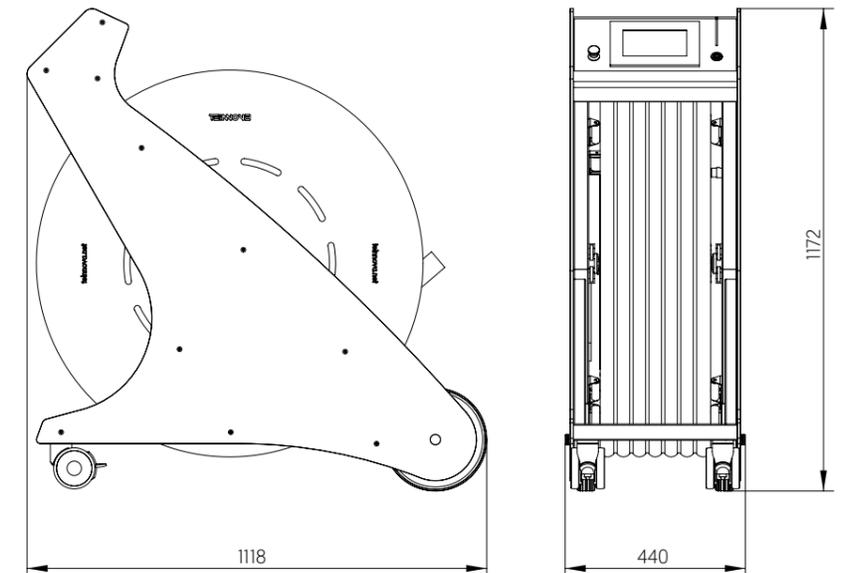


Do not throw electrical appliances in the trash!
We recommend that electrical tools and accessories are subjected to an environmentally friendly recycling process.
Please dispose of the materials in the appropriate container or go to your local collection points.

Directive 2012/19/EU of 4 July 2012 on waste electrical and electronic equipment (WEEE).

technical specifications

multipro	Features
Motor power supply [Maximum power]:	Compressed air 300 l/min – 6,3 bar // 10,6 cfm – 6,3 bar
No-load rotational speed:	500 rpm
Rotation speed at full power:	236,7 rpm
Torque at max output:	6,5 Nm // 57,5 lbf.in
Minimum starting torque:	8 Nm // 70,8 lbf.in
Stall torque:	11,6 Nm // 102,7 lbf.in
Noise level:	Less than 70 dB
Direction of rotation:	Right / Left
Control system:	Electropneumatic
Control panel:	HMI screen
Dimensions:	1118 x 440 x 1172 mm 44 x 17,32 x 46,14 inches
Weight:	73 kg // 161lb
Hose length:	30 m // 98 ft
Structural material:	Stainless steel and HDPE





warranty conditions

1. "TEINNOVA" guarantees its products for a period of 15 days as regards aesthetic defects or faults which are noticeable with the naked eye. In terms of all other manufacturing defects and faults in the products, the guarantee is of 1 year.

The "Buyer" must notify "TEINNOVA" of the existence of any defects as soon as they are observed and in any case within a maximum deadline of 5 days from when they become apparent. Notification thereof outside of said deadline shall lead to the non-application of the guarantee.

"TEINNOVA" reserves the right to request that the products be sent to the factory or the closest official Technical Support Service for their due inspection and the delivery costs are payable by the "Buyer". Said costs shall be reimbursed if the product is proven to be effectively non-conforming.

"TEINNOVA" will pick up and send the products to the factory or to the nearest official Technical Assistance Service for proper inspection. At that time, it will be determined whether the warranty will apply or it is within the warranty exclusions. If the guarantee is applicable, the transport, both collection at the customer's facilities and return of the product, will be borne by TEINNOVA. If it is excluded from guarantee [point 2], the transport, both collection at the customer's facilities and return of the product, will be borne by the customer.

"TEINNOVA" reserves the right to overrule the application of the guarantee when there is no evidence of the product's non-conformity and it shall

not apply said guarantee until coverage has been expressly proven.

In the case that the product is covered, "TEINNOVA" can replace it or determine the necessary repair method.

All repair works that are carried out under the product guarantee must be carried out in "TEINNOVA" facilities or in those of the party it designates.

The guarantee covers the materials and labour required to repair or replace the parts or elements considered as defective from origin. The maximum guaranteed amount or value shall be the maximum price of the sale of the product to the "Buyer".

Any claims made under the coverage of the guarantee shall not grant the right to delay and/or withhold payment of the corresponding invoice and/or any other pending invoices.

2. Guarantee Exclusions: the following are excluded from the guarantee: actions, alterations or manipulations of the product that are carried out without the prior express authorisation of the "Seller"; indirect and/or consequential damage; damage caused by negligence, by improper use or by usage that does not conform to the instructions and intentional damage; faults due to adaptations made to the products or the use of parts that were not previously and expressly certified or authorised by the Seller; costs for detection of the fault; costs for collection or replacement [the latter two are unless the non-conformity is proven and within the limits established in section 1].

TECAI INNOVA S.L.
C/ Las Balsas 16-B, Pol. Ind. Cantabria.
26009 LOGROÑO [La Rioja], Spain.



TEINNOVA se reserva el derecho de introducir cambios en los equipos sin previo aviso.

CE declaration of conformity

MODEL: **multipro**

SERIAL N°: TG33203420000 - TG33203429999

MANUFACTURER'S DATA:

Manufacturer's name: TECAI INNOVA S.L.

Telephone: +34 941 44 50 56

Fax: +34 941 25 24 71

Web: www.teinnova.net

TECAI INNOVA, S.L., with full responsibility, certifies that the machine model described above complies with all the essential requirements of the following directives:

- Machinery directive 2006/42/CE
- Directive 2014/30/EU on electromagnetic compatibility and its amendments.
- Directive 2014/35/EU on the sale of electrical equipment.

RESPONSIBLE FOR THE TECHNICAL DOSSIER:

Technical Director

ARMANDO SÁENZ ANGULO

Pol. Ind. Cantabria, C/Las Balsas 16

26009 Logroño [La Rioja]

TEINNOVA.



SIGNATURE: ARMANDO SÁENZ ANGULO
Technical Director

Done at Logroño, 19 January 2024