

# USER AND MAINTENANCE MANUAL

## XM165 GRINDER FLOOR & WALL GRINDING



GRINDER *PON100322*

IP65 FREQUENCY INVERTER *VAR100355*

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# 1- PRÉSENTATION

Our XM-type floor and wall grinding kit is designed to provide you with a very high level of performance and unmatched user comfort.

It consists of a grinder and a control box with speed variator.

The grinder is equipped with a brushless motor, ensuring:

- Protection rating: IP65, making it suitable for decontamination (asbestos)
- Very low noise level
- No vibration
- Weight under 10 kg (grinder only)
- Optimal ergonomics

The control box allows precise operation of the grinder's motor:

- Protection rating: IP65, making it suitable for decontamination (asbestos)
- Accurate speed adjustment
- Monitoring of proper operation and safety management

For your grinding operations, you will also need :

- **Our grinding cup wheels, to be selected from our range depending on the material to be processed**

Using our cup wheels is essential to ensure:

- Compliance with warranty and hidden defect coverage
- User safety
- Optimal grinding performance

To reduce Musculoskeletal Disorders (MSDs), our load compensators, to be selected from our range (GECKO or MYGALE, see end of document).



## 2.2- Package contents

Unpack the package and check that the delivery is complete.  
The package, delivered in a wheeled transport bag, includes:

- A. XM165 grinder (x1)
- B. Frequency inverter IP65 (x1)
- C. Hook spanner (x1)
- D. 6mm Hex key (x1)
- E. Clips for securing the cable to your vacuum hose (x4)
- F. User and maintenance manual (x1)



## 3- SAFETY



Before using this grinder, please read the following documents carefully:

- This user manual
- The «General Safety Instructions» governing the use of electrical equipment, provided in the enclosed booklet (reference: 315.915/04.04)
- The accident prevention rules and regulations applicable at the place of use

This grinder has been built according to the current state of the art and in compliance with recognized safety standards.

However, improper use may pose serious risks of injury to the operator or to third parties.

Use this grinder only under the following conditions:

- In accordance with its intended purpose
- In a fully operational and safe condition

Immediately eliminate or have eliminated any malfunction that could compromise safety.

### SAFETY INSTRUCTIONS

Personal protective equipment required during use:

- Wrap-around safety goggles
- Dust mask
- Protective gloves
- Non-slip safety shoes

Ensure that the workspace is well-lit and that the workstation is appropriately organized for the task.

Remove any obstacles that could cause you to trip.

**When working in the presence of hazardous dust, wear a respiratory protection mask in compliance with DIN/EN149. Filter category: P2**

### Dust extraction

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To protect users and maintain a clean working environment, an integrated dust extraction system must be used during operation.

Operate the device only when connected to a vacuum cleaner or a dust extraction system.

We recommend using IETS specialized vacuum cleaners with fine filtration systems.

Do not use the device in areas with an explosive atmosphere.

Always maintain a stable and balanced posture.

## After-sales service

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This product has been designed and manufactured in France by our technicians to ensure you can work in the best possible conditions.

Despite all the care taken in the production of your grinder, a malfunction may still occur.

Please inform us of any issue so that we can resolve it as quickly as possible.

**AFTER-SALES SERVICE : 04 77 60 60 76 - sav@sept-tools.fr**

## 4- OPERATION

This grinder is designed to remove layers of paint, coatings, and residues.

It is a hand-guided grinder for walls and vertical surfaces, allowing upright work without effort, even in hard-to-reach areas.

It can also be used for grinding small flat surfaces, including floors.

### Grinding cup wheel

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This grinder is designed to remove layers of paint, coatings, adhesive residues, and concrete burrs from formwork surfaces, to roughen screeds, and to level joints using grinding cup wheels.

Various types of cup wheels are available, each suited to specific materials to be grinded.

The use of grinding cup wheels must comply with the following requirements:

**- Cup wheels must be supplied by us or approved by our technical department**

-The cup wheel bore must fit the drive shaft without play or pre-tension. Do not use reducers or adapters

- Cup wheels must be secured to the motor shaft using the locking nut supplied with the grinder

- Both the cup wheel and the locking nut must be in perfect condition

- Once mounted, the cup wheel must rotate freely within the protective shroud



**The use of discs not approved by our technical department is not only ineffective and dangerous, but will also void the product warranty. IETS accepts no responsibility for any damage and/or injury resulting from the use of unapproved discs.**

## 5- START-UP PROCEDURE

### 5.1- BEFORE COMMISSIONING

Checks to be carried out before commissioning the machine:

- The voltage indicated on the nameplate must match the mains supply voltage.
- The machine's switch must be in position 0 (OFF).

### 5.3- Installing the grinding cup wheel



**Only use the original locking nuts supplied and cup wheels certified by IETS.**

**The machine must not be held or placed in such a way that the switch levers are engaged.**

#### Initial setup

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1. Install the disc onto the drive shaft after first removing the locking nut.
2. Tighten the locking nut using the hook spanner while holding the shaft in place with the 6 mm hex key.
3. Put away the tools and store them in the transport case.
4. Check that the disc is properly seated against the drive ring.
5. Adjust the height position of the protective cover (see following section).
6. Make sure the grinder switch is set to 0 (OFF).
7. Connect the grinder cable to the control box.
8. Plug the male connector of the control box into a suitable power outlet.



**When using a generator, it is essential to start the generator before connecting the control box to it.**

9. Start the grinder (switch in position I) and let it run for approximately 30 seconds. Check for the absence of vibrations.
10. Stop the grinder (switch in position 0).

## Grinding cup wheel replacement

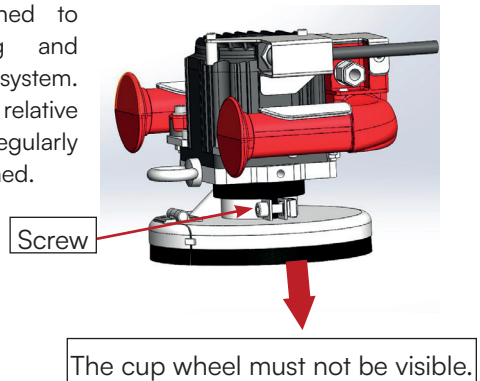
1. After switching off the grinder (switch in position 0).
2. Unplug the male connector of the control box from the power outlet.
3. Unscrew the locking nut using the hook spanner while holding the shaft in place with the 6 mm hex key.
4. Remove the disc.
5. Repeat the steps from the previous section starting at step 1.



**Caution when replacing the disc, the disc to be removed may be hot.**

### 5.4- Adjusting the dust shroud

The brushes on the shroud are designed to prevent grinding dust from escaping and to help direct it toward the vacuum system. It is essential to adjust the position of the shroud relative to the cutting surface of the disc and to regularly check that the adjustment is properly maintained.



1. Loosen the shroud screw using the 6 mm hex key.
2. Adjust the height by sliding the shroud and aligning the brushes with the cutting edge of the disc.
3. Tighten the screw using the 6 mm hex key.



**Regularly replace the brushes to maintain effective grinding dust extraction.**

## 5.5- Electrical connections

The control box must be connected to a stable power source.

The use of a generator is permitted, provided it is equipped with an inverter.

The following steps must be carried out in the specified order:

1. Connect the grinder to the control box.
2. If applicable, start the generator.
3. Connect the control box to the mains power supply.
4. Connect the vacuum hose to the grinder by inserting it onto the male end of the handle.



**Never connect or disconnect the grinder from the control box while it is powered.**

**Never connect or disconnect the machine from the control box without first:**

- Switching the grinder to position 0 (OFF)
- Unplugging the control box from the mains power supply

## 5.6- Start and stop

Start-up: Press to switch to position I (ON).

Shutdown: Press to switch to position 0 (OFF).

## 5.7- Adjusting the rotation speed

A potentiometer located on the control box allows precise adjustment of the rotation speed for high-quality work.

The following speeds are recommended depending on the application:

Roughing speed: 4800 RPM - recommended for diamond grinding cup wheel.

Finishing speed: 2800 RPM - recommended for Velcro grinding pads..

## 5.8- Miscellaneous

### Electrical Protection

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The grinder's control box includes systems to monitor proper operation.

If the electrical current exceeds a certain amperage, the grinder will automatically shut off.

It will automatically restart after 5 seconds.

If the system detects 5 consecutive faults, the following steps are required to restart the grinder : Switch the power button to 0 (OFF), unplug the control box from the power supply, wait 10 seconds, plug the control box back in and switch the power button to I (ON)

### Extension cords

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The use of an extension cord is allowed to connect the control box to the main power supply, provided the cable has a minimum wire cross-section of 2.5 mm<sup>2</sup>.

## 6- USE

Before starting the machine, hold the cup wheel at a certain distance from the surface to be ground.

Switch the power button to ON (I), then use the potentiometer to adjust the motor speed until it reaches the desired no-load speed.

Once the cup wheel has reached the required peripheral speed for grinding, lower it onto the surface.

Always guide the machine with light pressure on the surface to be ground, using overlapping movements (circular or back-and-forth).

This ensures effective grinding performance and extends the tool's service life.



If too much pressure is applied to the cup wheel, scratches may appear on the surface.

During grinding, do not keep the machine in the same spot, as this may cause indentations to form.

## Edge grinding

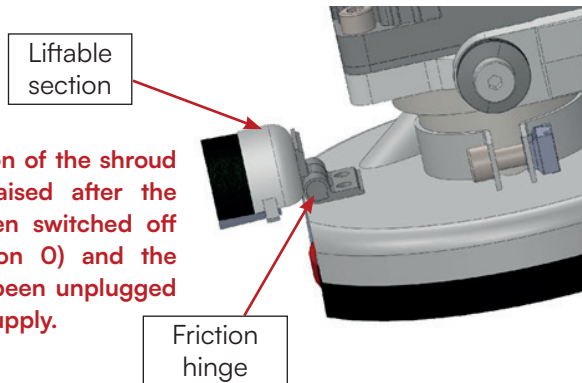
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The grinder's shroud includes a liftable section that allows for grinding along wall edges (baseboards).

The hinge is friction-based (holds position) and requires no tools to operate. It can be adjusted if necessary.



**The liftable section of the shroud must only be raised after the machine has been switched off (switch in position 0) and the control box has been unplugged from the power supply.**



## 7- SAFETY PRECAUTIONS

### Electrical Hazards

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Nothing must damage the outer casing of the drive motor, as this could pose a risk of electrocution.

Immediately replace the power cord and its male plug if they are damaged.

### Mechanical Hazards

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In the event of strong vibrations, immediately switch off the machine and check the cup wheel mounting.

If the mounting is correct, remove the machine from the work area and send it to maintenance for after-sales service.

To prevent the cup wheel from catching on an object and damaging itself or its transmission components, do not press it against burrs that are too high or thick, or against sharp edges.

## Health Hazards

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While operating the machine, make sure your clothing cannot be caught in any moving parts.

After switching off the machine, the cup wheel may continue to rotate briefly due to inertia.

Never hold the machine by the front, near the pivoting grinding head - you risk trapping your hand.

Connect the vacuum hose to the machine's suction port.

## Handling

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When operating the machine, always hold it with both hands.

Before performing any work on the machine, always make sure to unplug the control box's male connector from the power outlet.

## Storage

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Always place the machine in a safe location to prevent it from falling, for example from scaffolding, and ensure that the ON/OFF switch cannot be activated unintentionally. Protect diamond cup wheels from shocks and impacts.

# 8- MAINTENANCE - CLEANING - REPAIRS - DISPOSAL

## Preventive maintenance

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General and regular cleaning of the machine must be carried out in accordance with the user company's guidelines.

Likewise, the proper functioning and tightening of the trolley's screws, nuts, and accessories must be checked regularly.

If any anomaly is detected, please contact our After-Sales Service.

## Corrective maintenance

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**Any intervention by the user on the machine during the warranty period is prohibited unless expressly authorized by our company.**

Beyond the warranty period, corrective maintenance operations may be carried out with the support of our After-Sales Service.

## General cleaning

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Regularly clean the grinder and its control box.  
The cleaning frequency depends on the material ground and the duration of use.

## Cleaning the Grinder

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Cleaning with water is possible, but do not use high pressure.  
Remember to clean the machine's suction duct, which may become clogged with damp dust, for example.

## Cleaning the control box

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**Cleaning with water is possible, but do not use high pressure.  
Opening the control box (removing the cover) is strictly prohibited.**

## Repairs

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Repairs must only be carried out by an IETS-approved after-sales service workshop.

## Disposal Instructions

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**When disposing of the equipment, remove the power cord to render it unusable.**

**In accordance with European Directive 2002/96/EC on waste electrical and electronic equipment, and its transposition into national law, used power tools must be collected separately and sent to an environmentally friendly recycling process.**

## 9- WARRANTY

When purchasing a new machine IETS provides a 2-year manufacturer warranty  
The warranty period begins on the date of sale of the machine

The warranty covers only defects resulting from material and manufacturing faults as well as the absence of promised features

For any warranty claim please present the original proof of purchase showing the purchase date

Warranty repairs may only be carried out by IETS-approved service workshops

The warranty is valid only if the machine has been used correctly

Not covered by the warranty are the use of cup wheels not approved by our technical department wear resulting from use and or improper applications machines that have been fully or partially disassembled as well as damage caused by overloading the machine

Also excluded are damages caused by the machine to the tool used the use of force consequential damages due to insufficient or unqualified maintenance by the customer or third parties damages caused by third-party intervention or foreign objects such as sand or stones as well as damages caused by failure to comply with the manual contents for example connection to incorrect mains voltage or current type

Warranty claims concerning tools and or accessories are only valid if they have been used with machines intended or authorized for such use

### Liability Disclaimer

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The manufacturer and its representative cannot be held liable for damages or loss of profit due to worksite downtime caused by the product or by the inability to use it. The manufacturer and its representative cannot be held liable for damages resulting from improper use of the product or from its use in combination with products from other manufacturers.

## 10- CE COMPLIANCE

We hereby declare under our sole responsibility that this product: Floor and Wall Grinder XM 165 and its Control Box

Serial numbers : *See identification plate.*

Complies with the following standards or normative documents:

EN 60745, EN 55014, EN 61000, in accordance with the provisions of Directives: 2006/95/EC, 2004/108/EC, 2006/42/EC, 98/37/EC

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### Manufactured by:

**IETS**  
**30 Rue des Manufacturiers**  
**42640 St Romain la Motte**  
**www.sept-tools.fr**

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### Conformity assessment bodies:

**APAVE**  
**SAS Apave Sudeurope**  
**Agence de Saint-Etienne, 10 Allée du Technopole, BP741, 42950 St Etienne Cedex 9**

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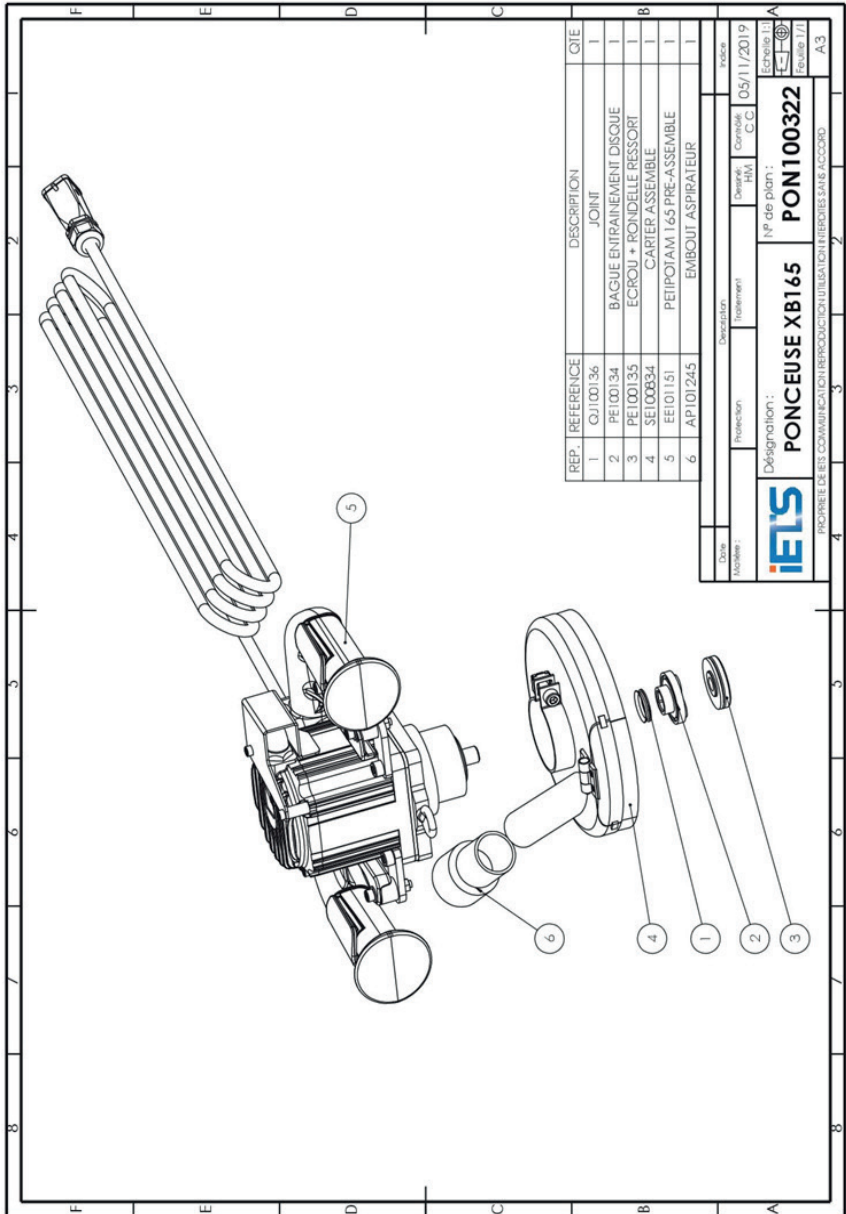
Person responsible for compiling the technical file: IETS

Quality Manager



Saint-Romain-la-Motte, le 24/11/2023

# 11- EXPLODED VIEWS



No.	REFERENCE	DESCRIPTION	QTE
1	SEI01221	Moteur Equipé	1
2	PEI00127	Cale moteur	1
3	PEI00662	Platine Moteur	1
4	PEI01140	Toile support	4
5	AM100081	Plot antivibratoire	4
6	ORI00128	Rondelle	8
7	OEI00129	Ecrou	4
8	PEI01136	Poignée	1
9	SEI00708	Interrupteur assemblé	2
10	QVI00072	Vis	4
11	AEI00144	Passes-fil	1
12	AEI00851	Câble coffret équipé 5 m	1
13	PEI01149	Joint	1
14	PEI01150	Toile	1
15	QVI00148	Vis	4
16	QVI00130	Vis	4
17	SEI00124	Bollier de roulement équipé	1
18	QVI00114	Vis	4
19	QVI00131	Vis	8
20	AM101236	Anneau	1
21	PEI01148	Toile serre-cable	1

Date	Description	Protecion	Traitement	Dessiné	Contrôlé	05/11/2019	mm
Modèle :				RHM	C.C		
		Désignation : <b>PONCEUSE XB 165</b>		N° de plan : <b>EE101151</b>		Echelle 1:1 Feuille 1/1	
PROPRIETE IETS COMMUNICATION REPRODUCTION UTILISATION INTERDITES SANS ACCORD.							
						A3	

## 12- GANTRIES AND LOAD COMPENSATORS



**GECKO LOAD COMPENSATOR**  
CDC100370



**MYGALE GANTRY**  
CDC100381

Imagined, developed, and assembled in France by



IETS  
10B Impasse Cotton  
42300, Roanne - France

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