



OPERATING INSTRUCTIONS

Industrial fan

IVM1500

IVM2000



Please read this manual before using the product and follow the instructions it contains!

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FOREWORD

Congratulations on purchasing your new industrial fan. This device has been manufactured from high-quality materials, specifically for long-lasting and reliable use. For your own safety and to ensure the fan operates correctly, please read and observe these operating instructions before use. Keep these operating instructions in a safe place. Check the device for transport damage. Damaged fans must not be used.

The industrial fan is designed for ventilation and air circulation in industrial halls, workshops, storage areas, and other commercial indoor spaces with high air requirements. Improper handling can result in injury or damage to the machine.

Any liability for damage resulting from the misuse of the fan or failure to comply with the specifications and rules of conduct in these operating instructions is excluded. The operator is responsible for ensuring correct use by trained and authorized personnel.

DEFINITION

REPRESENTATIVE

Trained and authorized personnel who use this industrial fan must be prepared for its use and must provide appropriate and sufficient instruction to operators. This instruction covers:

1. Mechanics and additional equipment of the device
2. Safety devices
3. Causes of accidents and accident prevention
4. Tasks of the installer
5. Operation

OPERATOR

Trained personnel authorized by the representative who use this industrial fan for safe use, setup, maintenance, cleaning, etc., while avoiding all hazards. Hazards are caused, among other things, by improper use.

INTENDED USE

Use of this industrial fan in accordance with the information provided in this operating manual.

DEVICE

This industrial fan.

PPE

Personal protective equipment, such as safety goggles, safety shoes, protective gloves, protective clothing, etc.

REASONABLY FORESEEABLE MISUSE

Use of this device in a manner not intended by the manufacturer, but which may result from easily foreseeable human behavior.

TARGET GROUP

Group of persons for whom this operating manual is intended by the manufacturer (authorized representative, operator).

SAFETY INSTRUCTIONS

- The device may only be operated when fully assembled.
- Strictly follow these instructions when installing and operating the product.
- Only allow qualified personnel to carry out repairs, inspections, or replacement of components.
- Before commissioning, check whether there are any obstacles in the air inlet, e.g., tarpaulins or other objects directly on the intake grille.
- Do not operate the industrial fan in extreme environments such as frost, corrosive or potentially explosive areas, or environments with high dust or gas exposure.
- Install the casters and brackets after receiving the product. All other components are already pre-assembled at the factory.
- After pulling out the power plug, wait at least 15 seconds before touching the contacts to allow the capacitor to discharge.
- Keep long, loose hair, loose clothing, and jewelry (e.g., necklaces) away from the air inlet – risk of suction!
- The voltage specified on the type plate must match the available mains voltage.
- The house mains must be earthed!
- The device must be disconnected from the mains before maintenance or cleaning work. Maintenance may only be carried out by trained specialist personnel.
- If there is visible damage to the power cord: Do not use the device.
- Do not insert any objects through the protective grille.
- Do not use with wet hands or bare feet.
- Clean only with a dry cloth and brush.
- Do not use flammable cleaning agents.
- After cleaning: reassemble the device completely.
- Modifications and changes to the device that are not approved by the manufacturer will void the warranty.

TECHNICAL DATA

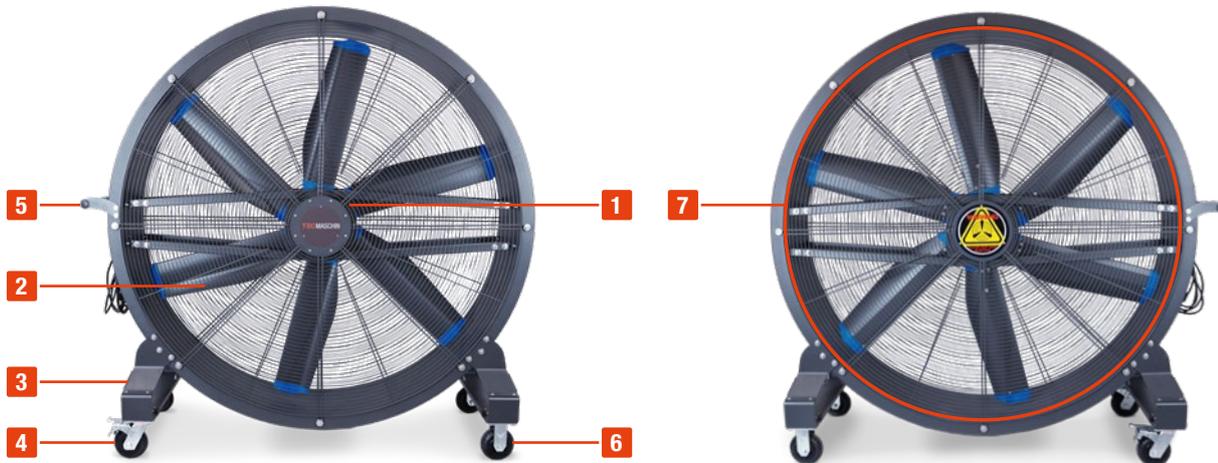
GENERAL

Type	Unit	IVM1500	IVM2000
Color		Grey	
Weight	kg	93	122
Dimensions (W x D x H)	mm	1700 x 565 x 1710	2200 x 736 x 2210
Diameter	mm	1500	2000
Cable length	m	8	
Area of application		Indoor	
Service life	h/d	24	
Power	W	750	1000
Mains voltage	V / Hz	230 ~ 50/60	
IP rating		IP55	
Speed	U/min.	420	300
Fan power	m ³ /h	40,000	62,000
Air speed	m/s	1 - 6.5	1 - 5.5
Noise level	dB (A)	39	
Operating temperature	°C	-10 – +50	

WHEELS

Type	Unit	IVM1500	IVM2000
Wheel type		2 fixed castors, 2 swivel castors	
Material		Rubber	
Diameter	mm	140	150

OVERVIEW OF MAIN COMPONENTS



No.	Name
1	Motor
2	Fan blades
3	Roller bracket
4	Swivel castor
5	Handle
6	Roller
7	Air collector
8	Front protective grille
9	Rear protective grille
10	Control panel

SAFETY DEVICES AND WARNING SIGNS

1. Safety devices

The industrial fan is equipped with the following safety devices to ensure safe operation:

Safety device	Position on the device	Function	Image
Emergency stop switch	Next to the control panel	Switches device off; can be unlocked by turning clockwise	
Metal protective grille	Front and rear of the fan	Protective grilles prevent access to rotating parts	

Safety device	Position on the device	Function	Image
Castors with locking brakes	On both sides at the rear of the swivel castors	Parking brakes prevent unintentional rolling away; lock before operation	
Protective conductor connection (PE)	Connection cable on the device side	Operate only on a grounded safety socket; protective conductor is mandatory	
Voltage isolation for maintenance work	Connection cable on the device side	Before maintenance / cleaning, disconnect the power plug; ensure that there is no voltage	

1. Warning signs on the device

The following warnings are affixed to the device:

Warning	Warning sign	Positioning on the device	Image
Warning about rotating parts		On the side of the housing	
Warning of tipping hazard			
Warning about static electricity			
Warnings regarding safety distances			
Warning notice regarding the parking brake; apply the parking brake before operation			

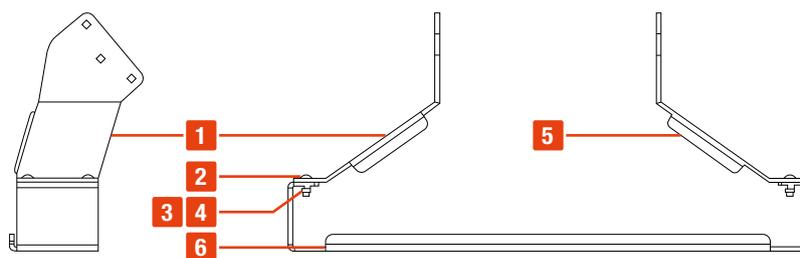
PARTS LIST

Position	Designation	Quantity	Use
1	Square screw M8 x 25	20	<ul style="list-style-type: none"> • 8 x for roller bracket (step 1) • 12 x for attachment to fan frame (step 3)
2	Hexagon screw M8 x 16	16	<ul style="list-style-type: none"> • 4 x per roll for securing the rolls (step 2)
3	Washer \varnothing 8	40	<ul style="list-style-type: none"> • 8 x for roller mounting (step 1) • 32 x for roller assembly (step 2)
4	Spring washer \varnothing 8	12	<ul style="list-style-type: none"> • To attach the roller brackets to the fan frame (step 3)
5	Self-locking nut M8	28	<ul style="list-style-type: none"> • 8 x for roller mounting (step 1) • 16 x for roller assembly (step 2) • 4 x for step 3
6	Roller	2	<ul style="list-style-type: none"> • Mounting on the side opposite the handle
7	Swivel castor with locking brake	2	<ul style="list-style-type: none"> • Mounting on the side of the handle

ASSEMBLY INSTRUCTIONS

The industrial fan is already pre-assembled. Simply mount the roller brackets and rollers according to these instructions. The necessary mounting materials are included. Lay the fan flat on the floor for assembly.

1. INSTALLATION OF THE ROLLER BRACKETS



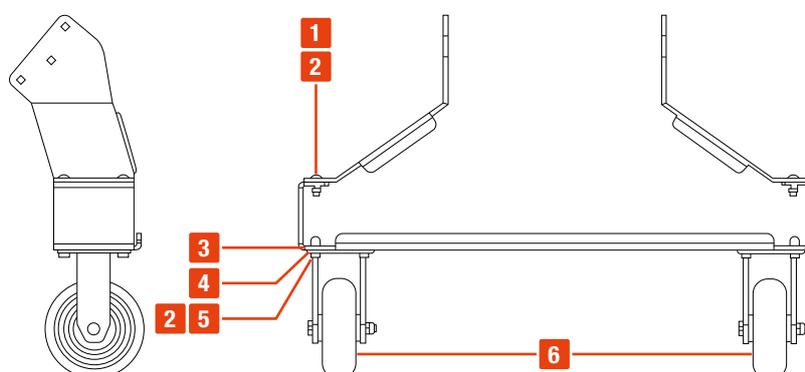
No.	Name
1	Roller mount side plate A
2	M8 x 25 square screw
3	\varnothing 8 washer
4	M8 self-locking nut
5	Roller mount side plate B
6	Roller mount base plate C

Assemble the two side plates (1) and (5) and the base plate (6) to form a roll holder. Repeat this step for the second roller mount.

Use the following for each roller mount:

- 4 x square screws M8 x 25
- 4 x washers \varnothing 8
- 4 x self-locking nuts M8

1. INSTALLATION OF THE ROLLERS



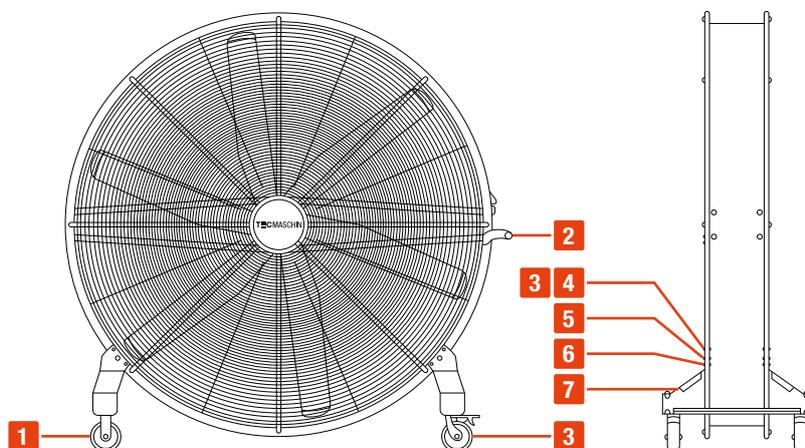
No.	Name
1	M8 self-locking nut
2	ø 8 washer
3	Roller mount
4	Wheel
5	M8 x 16 hexagon screw
6	Roller

Attach two castors (3) to one roller mount (6) and two swivel castors to the other roller mount (not shown).

Use the following for each roller:

- 4 x hexagon screws M8 x 16
- 8 x washers ø 8
- 4 x self-locking nuts M8

2. INSTALLATION OF THE ROLLER BRACKET ON THE FAN



No.	Name
1	6" roller
2	Handle
3	M8 self-locking nut
4	ø 8 spring washer
5	Roller holder rail
6	M9 x 25 square screw
7	Roller mount

Attach the two finished roller mounts to the designated mounting points. Mount the roller mount with the castors (1) on the left side. Mount the roller mount with the swivel castors (2) on the side of the handle.

Use the following for this:

- 12 x square screws M8 x 25
- 12 x spring washers ø 8
- 8 x self-locking nuts M8

OPERATING INSTRUCTIONS

BEFORE FIRST USE

- Place the mobile fan on as level a surface as possible.
- Ensure that there are no obstacles in front of or behind the fan.
- Apply the locking brake on the castors before starting the fan.
- Only use in dry indoor areas (IP55 – splash-proof, not weatherproof).

INSTALLATION INSTRUCTIONS FOR OPTIMAL AIR CIRCULATION



Attention: An environment that is too confined impairs air circulation and reduces air volume. Please observe the following instructions:

1. Keep a distance of at least 1.5 meters from walls, machines, or other obstacles on all sides (left, right, front, and rear).
2. Keep a distance of at least 0.5 meters from ceilings or roofs above.

CONTROL PANEL

The fan's control panel is located on the side near the handle.



Here you can operate the fan using the following buttons and switches:

- Press the “Run” button (1) to start the fan.
- Press the “Stop/Reset” button (2) to stop the fan or perform a reset.
- Increase the speed using the “▲” button (3).
- Decrease the speed using the “▼” button (4).
- In an emergency, press the red emergency stop switch (5) to switch off the fan immediately. Turn the switch clockwise to unlock it again.



The emergency stop switch should only be used in genuine emergencies. Frequent or unnecessary activation may cause damage to the control panel.



FUN (Function) & SET buttons have no function for end users. They are used by our technicians for error analysis and troubleshooting.

SERVICE & CONTACT

Contact our product experts and find help and solutions for your product. Here you will find all contact information listed by country and language: www.topregal.co.uk/en/service

Responsible for the content:
TOPREGAL GmbH
Industriestrasse 3
70794 Filderstadt
GERMANY
www.topregal.com

REGULAR INSPECTION



⚠ Safety notice: All maintenance work must only be carried out when the power is disconnected. Maintenance must only be carried out by trained specialist personnel.

Every 2 weeks	Every 3 months	Once a year
Visual inspection for dust accumulation and foreign objects in the protective grille	Check that all screw connections are tight	Check bearings if necessary (depending on operating hours, not required for maintenance, but recommended)
Clean the fan blades with dry compressed air or a soft cloth (unplug the power cord!)	Check rollers for smooth running and secure fit Visually inspect the power cord for damage	Check controller for correct fit, ventilation, and function

TROUBLESHOOTING

Error code	Description	Possible cause	Proposed solution
OC	Overcurrent protection	<ul style="list-style-type: none"> Output short-circuited Motor blocked or overloaded 	<ul style="list-style-type: none"> Check whether the motor cable is damaged Check whether the motor is blocked
OE	DC surge protection	<ul style="list-style-type: none"> Mains voltage too high Excessive deceleration energy during braking 	<ul style="list-style-type: none"> Check the mains voltage Extend the braking time
PF1	Phase failure input	<ul style="list-style-type: none"> Phase failure in the power supply 	<ul style="list-style-type: none"> Check the power supply
OL1	Converter overload protection	<ul style="list-style-type: none"> Load too heavy 	<ul style="list-style-type: none"> Reduce the load Increase the performance of the converter
OL2	Motor overload protection	<ul style="list-style-type: none"> Load too heavy 	<ul style="list-style-type: none"> Reduce the load Check the mechanics
LU	Undervoltage protection	<ul style="list-style-type: none"> Mains voltage too low 	<ul style="list-style-type: none"> Check the mains voltage
OH	Converter overheating protection	<ul style="list-style-type: none"> Cooling fins dirty Fan defective Ambient temperature too high 	<ul style="list-style-type: none"> Clean the air intake and cooling fins Replace the fan Ensure better ventilation
ESP	Motor overheating protection	<ul style="list-style-type: none"> Temperature sensor defective or disconnected – motor too hot 	<ul style="list-style-type: none"> Check the temperature sensor Check the engine temperature
Err2	Parameter measurement error	<ul style="list-style-type: none"> Motor not connected during parameter measurement 	<ul style="list-style-type: none"> Connect the motor correctly
Err3	Power failure before start-up	<ul style="list-style-type: none"> Power alarm is present at start 	<ul style="list-style-type: none"> Check the wiring Contact the manufacturer
Err4	Current zero error	<ul style="list-style-type: none"> Cable loose Current sensor defective 	<ul style="list-style-type: none"> Reconnect the cable Contact the manufacturer
PF0	Output phase failure	<ul style="list-style-type: none"> Motor connection interrupted Motor defective Converter defective 	<ul style="list-style-type: none"> Check motor connection cable Repair motor Contact manufacturer
GP	Grounding protection	<ul style="list-style-type: none"> Motor cable damaged and short-circuited to ground Motor insulation damaged Converter defective 	<ul style="list-style-type: none"> Replace cable Repair motor Contact manufacturer
PCE	PMSM setting error	<ul style="list-style-type: none"> Acceleration time too short Load too heavy Motor blocked 	<ul style="list-style-type: none"> Extend acceleration time Check the motor load
ALM ON	Error message active	<ul style="list-style-type: none"> Error is due to 	<ul style="list-style-type: none"> Press the “Stop / Reset” button
-	Button malfunction	<ul style="list-style-type: none"> Cable loose – converter defective 	<ul style="list-style-type: none"> Connect the cables correctly Switch the device off and on again

UKCA Declaration of Conformity

The manufacturer

TOPREGAL UK Ltd.
Carlton Drive Crumlin
Gwent NP11 4EA

hereby declares that the following product

Product name:

TecMaschin
Industrial fan

Type:

IVM1500
IVM2000

Serial number:

IVM1500-1000000000 – IVM1500-9999999999
IVM2000-1000000000 – IVM2000-9999999999

that the equipment is in conformity with the following relevant UK legislations and applied standards:

2006/42/EC Machinery Directive
2014/35/EU Low Voltage Directive
2014/30/EU Electromagnetic Compatibility (EMC)
2011/65/EU, amended by (EU) 2015/863 (RoHS Directive)

DIN EN ISO 12100

Name and address of the person who is authorized, compile the technical documentation:

TOPREGAL UK Ltd.
Carlton Drive Crumlin
Gwent NP11 4EA

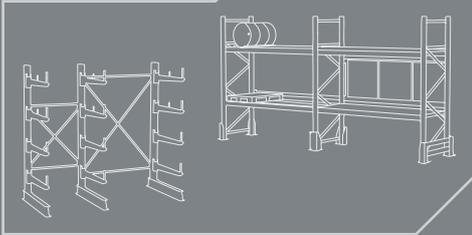


Place: Crumlin UK
Date: 07.08.2025

Juergen Effner
Chief Executive Officer

TOPREGAL

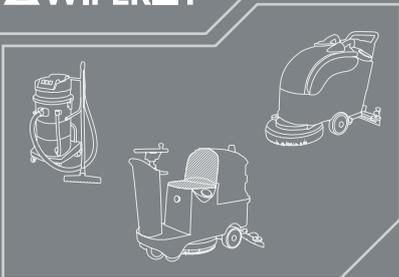
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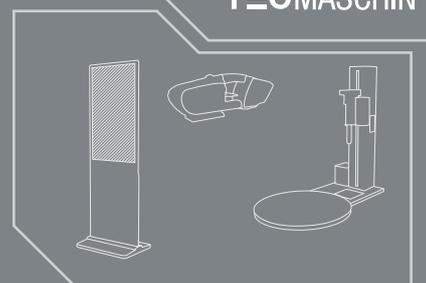
SolidHub



WIPEKET



TECMASCHIN



SOLOPORT

