

Safety and operating instructions Spreading carriage





830

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Introduction

Thank you for choosing a product from Atlas Copco. Since 1873, we have been committed to finding new and better ways of fulfilling our customers' needs. Through the years, we have developed innovative and ergonomic product designs that have helped customers improve and rationalize their daily work.

Atlas Copco has a strong global sales and service network, consisting of customer centers and distributors worldwide. Our experts are highly trained professionals with extensive product knowledge and application experience. In all corners of the world, we can offer product support and expertise to ensure that our customers can work at maximum efficiency at all times.

For more information please visit: www.atlascopco.com

Construction Tools EOOD

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About the Safety and operating instructions

The aim of the instructions is to provide you with knowledge of how to use the machine in an efficient, safe way. The instructions also give you advice and tell you how to perform regular maintenance on the machine.

Before using the machine for the first time you must read these instructions carefully and understand all of them.

Safety instructions

To reduce the risk of serious injury or death to yourself or others, read and understand the Safety and operating instruction before installing, operating, repairing, maintaining, or changing accessories on the machine.

Post this Safety and operating instruction at work locations, provide copies to employees, and make sure that everyone reads the Safety and operating instruction before operating or servicing the machine. For professional use only.

In addition, the operator or the operator's employer must assess the specific risks that may be present as a result of each use of the machine.

Save all warnings and instructions for future reference.

Safety signal words

The safety signal words Danger, Warning and Caution have the following meanings:

DANGER	Indicates a hazardous situation which, if not avoided, will result in death or serious injury.
WARNING	Indicates a hazardous situation which, if not avoided, could result in death or serious injury.
CAUTION	Indicates a hazardous situation which, if not avoided, could result in minor or moderate injury.

Work area

A WARNING Secure the working area

Cluttered benches and insufficient lighting can cause personal accidents and result in serious injuries.

- ▶ Keep the working area clean.
- Maintain adequate lighting in the working area.

Only qualified and trained persons may operate or maintain the machine. They must be physically able to handle the bulk, weight, and power of the machine. Always use your common sense and good judgement.

Keep bystanders, children, and visitors away while operating the machine. Distractions may cause loss of control.

Personal safety

Personal protective equipment

Always use approved protective equipment. Operators and all other persons in the working area must wear protective equipment, including at a minimum:

- Protective helmet
- Hearing protection
- Impact resistant eye protection with side protection
- Respiratory protection when appropriate
- Protective gloves
- Proper protective boots
- Appropriate work overall or similar clothing (not loose-fitting) that covers your arms and legs.

Drugs, alcohol or medication

A WARNING Drugs, alcohol or medication

Drugs, alcohol or medication may impair your judgment and powers of concentration. Poor reactions and incorrect assessments can lead to severe accidents or death.

- Never use the machine when you are tired or under the influence of drugs, alcohol or medication.
- ▶ No person who is under the influence of drugs, alcohol or medication may operate the machine.

A WARNING Slipping, tripping and falling hazards

There is a risk of slipping or tripping or falling, for example tripping on the hoses or on other objects. Slipping or tripping or falling can cause injury. To reduce this risk:

- Always make sure that no hose or other object is in your way or in any other person's way.
- Always make sure you are in a stable position with your feet as far apart as your shoulders width and keeping a balanced body weight.

A WARNING Dust and fume hazard

Dusts and/or fumes generated or dispersed when using the machine may cause serious and permanent respiratory disease, illness, or other bodily injury (for example, silicosis or other irreversible lung disease that can be fatal, cancer, birth defects, and/or skin inflammation).

Some dusts and fumes created by compaction work contain substances known to the State of California and other authorities to cause respiratory disease, cancer, birth defects, or other reproductive harm. Some examples of such substances are:

- Crystalline silica, cement, and other masonry products.
- Arsenic and chromium from chemically-treated rubber.
- Lead from lead-based paints.

Dust and fumes in the air can be invisible to the naked eye, so do not rely on eye sight to determine if there is dust or fumes are the air.

To reduce the risk of exposure to dust and fumes, do all of the following:

- Perform site-specific risk assessment. The risk assessment must include dust and fumes created by the use of the machine and the potential for disturbing existing dust.
- Use proper engineering controls to minimize the amount of dust and fumes in the air and to minimize build-up on equipment, surfaces, clothing, and body parts. Examples of controls include: exhaust ventilation and dust collection systems, water sprays, and wet drilling. Control dusts and fumes at the source where possible. Make sure that controls are properly installed, maintained and correctly used.
- Wear, maintain and correctly use respiratory protection as instructed by your employer and as required by occupational health and safety regulations. The respiratory protection must be effective for the type of substance at issue (and if applicable, approved by relevant governmental authority).
- Work in a well ventilated area.
- If the machine has an exhaust, direct the exhaust so as to reduce disturbance of dust in a dust filled environment.
- Operate and maintain the machine as recommended in the operating and safety instructions
- Wear washable or disposable protective clothes at the worksite, and shower and change into clean clothes before leaving the worksite to reduce exposure of dust and fumes to yourself, other persons, cars, homes, and other areas.

- Avoid eating, drinking, and using tobacco products in areas where there is dust or fumes.
- Wash your hands and face thoroughly as soon as possible upon leaving the exposure area, and always before eating, drinking, using tobacco products, or making contact with other persons.
- Comply with all applicable laws and regulations, including occupational health and safety regulations.
- Participate in air monitoring, medical examination programs, and health and safety training programs provided by your employer or trade organizations and in accordance with occupational health and safety regulations and recommendations. Consult with physicians experienced in relevant occupational medicine.
- Work with your employer and trade organization to reduce dust and fume exposure at the worksite and to reduce the risks. Effective health and safety programs, policies and procedures for protecting workers and others against harmful exposure to dust and fumes must be established and implemented based on advice from health and safety experts. Consult with experts.

Operating, precautions

A WARNING Incorrect usage

An incorrect use of the machine, accessories, and insertion tools/ cutting blades can result in serious injuries or a hazardous situation.

- Use the machine, accessories and tools in accordance with the safety instructions.
- Use the machine for what it is designed for, and in the way it is intended.
- Use the correct machine for the work that is going to be performed.
- ▶ Do not force the machine while operating.
- ► Take the working conditions into account.

A WARNING Projectiles

Failure of the work piece, of accessories, or even of the machine itself may generate high velocity projectiles. During operating, splinters or other particles from the compacted material may become projectiles and cause personal injury by striking the operator or other persons. To reduce these risk:

- Use approved personal protective equipment and safety helmet, including impact resistant eye protection with side protection.
- Make sure that no unauthorised persons trespass into the working zone.
- ► Keep the workplace free from foreign objects.

A WARNING Unexpected movements

The machine is exposed to heavy strains during operation. If the machine breaks or gets stuck, there may be sudden and unexpected movement that can cause injuries.

- Always inspect the machine prior to use. Never use the machine if you suspect that it is damaged.
- Make sure that the handle is clean and free of grease and oil.
- ▶ Keep your feet away from the machine.
- Never sit on the machine.
- Never strike or abuse the machine.
- Pay attention and look at what you are doing.

A WARNING Vibration hazards

Normal and proper use of the machine exposes the operator to vibration. Regular and frequent exposure to vibration may cause, contribute to, or aggravate injury or disorders to the operator's fingers, hands, wrists, arms, shoulders and/or nerves and blood supply or other body parts, including debilitating and/or permanent injuries or disorders that may develop gradually over periods of weeks, months, or years. Such injuries or disorders may include damage to the blood circulatory system, damage to the nervous system, damage to joints, and possibly damage to other body structures.

If numbness, persistent recurring discomfort, burning sensation, stiffness, throbbing, tingling, pain, clumsiness, weakened grip, whitening of the skin, or other symptoms occur at any time, when operating the machine or when not operating the machine, stop operating the machine, tell your employer and seek medical attention. Continued use of the machine after the occurrence of any such symptom may increase the risk of symptoms becoming more severe and/or permanent.

Operate and maintain the machine as recommended in these instructions, to prevent an unnecessary increase in vibration.

The following may help to reduce exposure to vibration for the operator:

- If the machine has vibration absorbing handles, keep them in a central position, avoid pressing the handles into the end stops.
- When the percussion mechanism is activated, the only body contact with the machine you must have are your hands on the handle or handles. Avoid any other contact, for example supporting any part of the body against the machine or leaning onto the machine trying to increase the feed force.
- Make sure that the machine is well-maintained and not worn out.
- Immediately stop working if the machine suddenly starts to vibrate strongly. Before resuming the work, find and remove the cause of the increased vibrations.
- Participate in health surveillance or monitoring, medical exams and training programs offered by your employer and when required by law.
- When working in cold conditions wear warm clothing and keep hands warm and dry.

See the "Noise and vibration declaration statement" for the machine, including the declared vibration values. This information can be found at the end of these Safety and operating instructions.

A WARNING Noise hazard

High noise levels can cause permanent and disabling hearing loss and other problems such as tinnitus (ringing, buzzing, whistling, or humming in the ears). To reduce risks and prevent an unnecessary increase in noise levels:

- Risk assessment of these hazards and implementation of appropriate controls is essential.
- Operate and maintain the machine as recommended in these instructions.
- If the machine has a silencer, check that it is in place and in good working condition.
- Always use hearing protection.

A WARNING Accessory hazards

Accidental engagement of accessories during maintenance or installation can cause serious injuries, when the power source is connected.

Never inspect, clean, install, or remove accessories while the power source is connected.

Maintenance, precautions

WARNING Machine modification

Any machine modification may result in bodily injuries to yourself or others.

- Never modify the machine. Modified machines are not covered by warranty or product liability.
- Always use original parts and accessories approved by Atlas Copco.
- Change damaged parts immediately.
- Replace worn components in good time.

A WARNING Damaged machine parts

Lack of maintenance will result in damaged or worn parts that can cause accidents.

- Check the moving parts for misalignment or binding.
- Check the machine for broken or, in other ways, damaged parts.

Damaged or worn parts can effect the operation of the machine.

Storage

 Keep the machine in a safe place, out of the reach of children and locked up.

Overview

To reduce the risk of serious injury or death to yourself or others, read the Safety instructions section found on the previous pages of this manual before operating the machine.

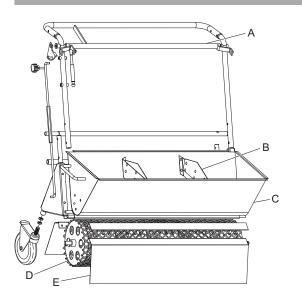
Design and function

The WTS 830 is designed for spreading granolithic materials onto a newly laid slab of concrete. No other use is permitted.

The WTS 830 spreader wagon suites all types of construction sites.

Do not tow the machine behind vehicles.

Main parts



- A. Flow control handle
- B. Blades
- C. Hopper
- D. Spreader wheel
- E. Cover

Lables

Data plate



- A. Machine type
- B. Product identification number
- C. The CE symbol means that the machine is EC-approved. See the EC Declaration of Conformity which is delivered with the machine for more information.

The machine is fitted with labels containing important information about personal safety and machine maintenance. The labels must be in such condition that they are easy to read. New labels can be ordered from the spare parts list.

Operation

Preparations before spreading

The hopper must be kept closed during filling. The receptacle should always be at least half full during operation. For the first filling a quantity of the maximum 50 kg (110 lb) of material should be used. Thereafter, use 25 kg (55 lb) for each top up.

The spreader cannot be run on a non-dewatered slab or as long as the concrete sticks to the spreader. On a vacuum dewatered concrete surface the carriage can be run immediately.

NOTICE Before use, check and if necessary adjust the doser handle and the opening.

Check of spreading quantity

Place a plastic sheet with the length of 6 m (19.5 ft) and a width of 1 m (3.3 ft), on a flat surface and mark a length of 3.8 m (12.5 ft). Fill a quantity of 25 kg (55 lb) in the carriage. Walk back and forth on the same strip over the marked distance on the plastic sheet. Collect the distributed material from the plastic sheet and weigh it. A spread strip should contain a quantity of 12.5 kg (27.5 lb) material. If this is not the case, the opening of the doser is stuck or the carriage has been run too rapidly.

Operating

Spreading

When spreading, the carriage is run on the screen roller only. The carriage is kept in such an angle that the link wheels do not touch the concrete surface. A lateral movement to a new spreading area must be made with the link wheels outside the concrete surface or by putting a support under the link wheels. The lateral movement can be made when the link wheels have been locked perpendicularly to the spreading direction. The screen roller is lifted by pressing the handle; the link wheels must rest on a rigid support.

If the total quantity of material has to be more than 4 kg/m2, the spreading should be made in several passes. The concrete surface is divided in appropriate spreading areas, for example 30 m2, where the length in the direction of spreading is 6 m (19.5 ft) and the width 5 m (16.5 ft). After tests in order to determine a proper working speed in relation to the desired quantity of material to be spread, the number of spreading and integrating passes is determined.

- 1. Mechanical floating of concrete slab with trowel equipped with a disc or "slippers".
- 2. Spread the granolithic material using the WTS 830.
- 3. The distributed material must be humidified by the underlaying concrete for about 8 to 10 minutes.
- 4. Integration of material. The material from each spreading pass should be properly and evenly worked into the underlying concrete by mechanical floating with a skim floater provided with a disc or "slippers". Avoid excessive and irregular integration which would risk a discolouring of the concrete surface.
- 5. Repeat steps 2-4 depending on the number of spreading passes.

Integration of material

The material from each spreading pass should be properly and evenly worked into the underlying concrete by mechanical floating with a skim floater provided with a disc or "slippers". Avoid excessive and irregular integration which would risk a discolouring of the concrete surface.

Maintenance

Regular maintenance is a basic requirement for the continued safe and efficient use of the machine. Follow the maintenance instructions carefully.

- Before starting maintenance on the machine, clean it in order to avoid exposure to hazardous substances. See "Dust and fume hazard".
- Use only authorised parts. Any damage or malfunction caused by the use of unauthorised parts is not covered by warranty or product liability.
- When cleaning mechanical parts with solvent, comply with appropriate health and safety regulations and ensure there is satisfactory ventilation.
- For major service of the machine, contact the nearest authorised workshop.
- After each service, check that the machine's vibration level is normal. If not, contact the nearest authorised workshop.

Every 10 hours of operation (daily)

Maintenance routines:

- Do not leave any material in the carriage. Clean the entire carriage with a high-pressure washer.
- Check the tightness of all nuts and bolts.
- Check that the controls are not damaged and do not jam.
- Check the locking function of the link wheels.
- Check that the dust guards are intact and in proper height.

Storage

- Clean the machine properly before storage, in order to avoid hazardous substances. See section "Dust and fume hazard".
- Always store the machine in a dry place.
- Keep the machine in a safe place, out of the reach of children and locked up.

Disposal

A used machine must be treated and disposed in such way that the greatest possible portion of the material can be recycled and any negative influence on the environment is kept as low as possible, and in accordance with local restrictions.

Always send used filters and drained oil remnants to environmentally correct disposal.

Technical data

Machine data

Туре	WTS 830
Working width path, mm (im)	830 (32)
Weight, kg (lb)	40 (88)
Max working weigth, kg (lb)	100 (220)
Material capacity, kg (lb)	60 (132)
Material spraying, kg/m2 (lb/sqft)	4 (0.8)

EC Declaration of Conformity

EC Declaration of Conformity (EC Directive 2006/42/EC)

We, Construction Tools EOOD, hereby declare that the machines listed below conform to the provisions of EC Directive 2006/42/EC (Machinery Directive) and the standards mentioned below.

Spreading carriage

WTS 830

Following standards were applied:

- 2000/14/EC, appendix VIII
- 2004/108/EC

Technical Documentation authorised representative:

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Construction Tools EOOD 7000 Rousse Bulgaria **Place and date:** Rousse, 2015-01-20

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