

SAFETY MANUAL

Paver Finisher



EN
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V Preface

Translation of the original operating instructions.

If the vehicle is to be operated safely, the information provided in these operating instructions will be required. The information is provided in a concise, clearly structured form. The individual chapters are arranged in alphabetical order, and every chapter starts with page 1. The individual pages are identified by the chapter letter and the page number.

Example: Page B 2 is the second page of chapter B.

These operating instructions cover various vehicle options. Make sure that during operation and maintenance work the description appropriate to the vehicle option is used.





In the interest of continued development, the manufacturer reserves the right to make changes to the vehicle (which will not, however, change the essential features of the type of vehicle described) without updating the present operating instructions at the same time.

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1 General safety instructions

1.1 Laws, guidelines, accident prevention regulations

-  The locally applicable laws, guidelines and accident prevention regulations must always be observed, even if these are not expressly named here.
The user himself/herself is responsible for compliance with the resulting regulations and measures!
-  The following warnings, prohibitive symbols and instructive symbols indicate dangers for persons, the vehicle and the environment due to residual risks when operating the vehicle.
-  Failure to observe this information, prohibitions and instructions can result in life-threatening injuries!
-  The "Guidelines for the Correct Use and Application of Paver Finishers" compiled by Dynapac must also be observed!

1.2 Safety signs, signal words

In the safety instructions, the signal words "Danger", "Warning", "Caution", "Note" are positioned in the coloured title block. They follow a certain hierarchy; in combination with the warning symbol, they indicate the severity of the danger or the type of note.

"Danger"!



Danger of personal injury.

Indication of an immediately threatening danger that result in fatal or severe injuries unless the corresponding actions are taken.

"Warning" !



Indication of a possible danger that can result in fatal or severe injuries unless the corresponding actions are taken.

"Caution" !



Indication of a possible danger that result in moderate or minor injuries unless the corresponding actions are taken.

"Note" !



Indication of a possible drawback unless the corresponding actions are taken, e.g. unwanted conditions or consequences can occur.

1.3 Other supplementary information

Other information and important explanations are identified by the following pictograms:



Precedes safety instructions that must be observed in order to prevent danger to personnel.



Precedes notes that must be observed to prevent damage to equipment.



Precedes general notes and explanations.

1.4 Warnings

Warning on a dangerous area or hazard!

Failure to observe the warnings can result in life-threatening injuries!



Warning on danger of being pulled in!



In this working area/on this element there is a danger of being pulled in by rotating or conveying elements!

Only carry out activities with elements switched off!



Warning on dangerous electrical voltage!



All maintenance and repair work on the screed's electrical system must always be carried out by an electrician!



Warning on suspended loads!



Never stand under suspended loads!



Warning on danger of crushing!



There is a danger of crushing when certain components are operated, or certain functions or vehicle movements are carried out. Always make sure that there are no persons within the endangered areas!



Warning on hand injuries!



Warning on hot surfaces or hot liquids!



Warning on danger of falling!



Warning on dangers posed by batteries!



Warning on hazardous or irritating substances!



Warning on substances which constitute a fire hazard!



Warning on gas bottles!



1.5 Prohibitive symbols

Opening/walking on/reaching in/carrying out/setting up are prohibited during operation or while the drive engine is running!



Do not start engine/drive!

Maintenance and repair work may only be carried out with the diesel engine shut down!



Spraying with water is prohibited!



Extinguishing with water is prohibited!



Unauthorised maintenance is prohibited!

Only qualified experts may conduct maintenance!



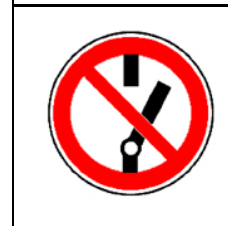
Consult the Dynapac Service Department



Fire!, naked flames and smoking are prohibited!



Do not switch!



1.6 Protective equipment



Locally applicable regulations may require the wearing of various safety equipment!
Always observe these regulations!

Wear safety goggles to protect your eyes!



Wear suitable head protection!



Wear suitable hearing protection to protect your hearing!



Wear suitable safety gloves to protect your hands!



Wear safety shoes to protect your feet!



Always wear close-fitting work clothing!

Wear a warning vest to be seen in time to avoid accidents!



Wear respiratory equipment if breathing air is contaminated!



1.7 Environmental protection



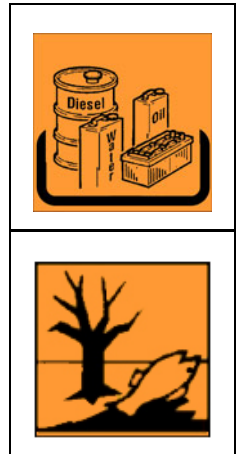
The locally applicable laws, guidelines and accident prevention regulations for the proper recycling and disposal of waste must always be observed, even if these are not expressly named here.

Water-endangering substances like:

- Lubricants (oil, grease)
- Hydraulic oil
- Diesel fuel
- Coolant
- Cleaning liquids

must not get into the soil or sewer system during cleaning, maintenance and repair work!

Substances must be caught, stored, transported and brought to professional disposal sites in suitable containers!



Environmentally hazardous substance!

1.8 Fire prevention




Locally applicable regulations may require suitable extinguishing agents to be carried on the vehicle!


Always observe these regulations!

Fire extinguisher!
(optional equipment)




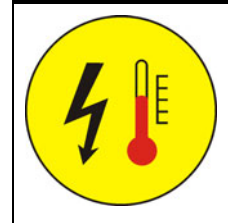
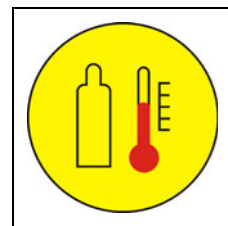
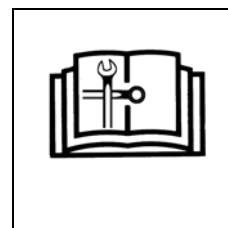
1.9 Additional information

 Also observe the manufacturer's documentation and additional documentation!

 For example, the maintenance instructions of the engine manufacturer

 Description / depiction applicable when equipped with gas heater!

 Description / depiction applicable when equipped with electric heater!



● Used to indicate standard equipment.

○ Used to indicate optional equipment.

2 CE identification and Declaration of Conformity

(only applies to machines sold in the EU/EEC)

This machine has CE identification. This identification says that the machine fulfils the basic health and safety requirements pursuant to the Machinery Directive 2006/42/EC together with all other valid regulations. The scope of supply of the machine includes a Declaration of Conformity as specified in the valid regulations and amendments together with harmonised standards and other valid provisions.

3 Guarantee conditions



The guarantee conditions are included in the scope of supply of the machine. This contains a complete specification of the valid conditions.

The guarantee becomes null and void if

- damage occurs through malfunctions caused by improper use and incorrect operation.
- repairs or manipulations are carried out by persons who are neither trained nor authorised accordingly.
- accessories or spare parts are used that cause damage and which are not approved by Dynapac.

4 Residual risks

These are risks that remain even if all possible measures and safety precautions have been taken to help minimise dangers (risks) or to reduce their probability and scope to zero.

Residual risks in the form of

- **Danger to life and limb of persons at the machine**
- **Danger to the environment posed by the machine**
- **Damage to property and restricted output and functionality of the machine**
- **Damage to property in the operating range of the machine**

caused by:

- wrong or improper use of the machine
- defective or missing safety devices
- use of the machine by untrained, uninstructed staff
- defective or damaged parts
- incorrect transport of the machine
- incorrect maintenance or repairs
- leaking operating substances
- emission of noise and vibrations
- impermissible operating substances

Existing residual risks can be avoided by complying and implementing the following:

- warnings at the machine
- warnings and instructions in the safety manual for paver finishers and in the operating instructions of the paver finisher
- Operating instructions of the machine operator

5 Sensibly predictable incorrect usage

Every kind of sensibly predictable incorrect usage of the machine constitutes misuse. Incorrect usage makes the manufacturer's warranty null and void: the operator bears sole responsibility.

Sensibly predictable incorrect usage of the machine includes:

- presence in the danger zone of the machine
- transporting persons
- leaving the operator's platform while the machine is operating
- removing protection or safety devices
- starting and using the machine outside the operator's platform
- operating the machine with the screed walkway plate hinged up
- failing to comply with the maintenance instructions
- omission or incorrect execution of maintenance or repair work
- spraying the machine with high pressure cleaners

A Introduction (area of application, purpose)



The present guidelines are part of the operating instructions enclosed with every paver finisher. They contain notes on the correct use and application of paver finishers as well as information on improper use and remaining risks, indicating also how these risks can be avoided.

Any unauthorized modification or supplement to the construction of the paver finisher can affect safety, thus causing the certificate of compliance stipulated by the EU to become invalid.

B Definitions

1 **Correct application**

Application for which the paver finisher is suited according to the specifications provided by DYNAPAC or by the authorized importer.

2 **Correct use**

The manner in which the paver finisher is used.

3 **User**

A natural or legal person who either uses the paver finisher himself, or on whose behalf it is used. In special cases, such as leasing or renting, the user is considered the person who, in accordance with the contractual agreements between the owner and the user of the paver finisher, is charged with the observance of the operating duties.

4 **Expert**

An expert is a person of adequate experience who has been specially trained, has acquired sufficient know-how and is familiar with the applicable regulations and guidelines for safety at work and for the prevention of accidents as well as with the approved technical rules so that he can assess the condition of the machine in terms of safety.

Supervisor: A person charged by the user with instructing the operator on the correct use and application of the paver finisher and, if no other provisions have been made within the company or within the contract, with ordering any required or regular maintenance work as well as regular tests.

C Correct application and areas of application

1 Correct application of the paver finisher

Paver finishers must only be used for laying mixed materials, roll-down concrete or lean-mixed concrete, track-laying ballast and unbound mineral aggregates for foundations for paving. If a paver finisher is to be used for other purposes, an approval from DYNAPAC and, if necessary, from the appropriate authorities must be obtained beforehand to avoid any risks.



Correct usage includes consulting and following the operating and maintenance instructions.

1.1 Damage, defects

Any damage or other defect on the paver finisher or on its extensions must be immediately reported to the supervisor. Paver finishers and extensions that cannot be safely operated must not be used until they have been properly repaired.

Safety installations and switches must not be removed or rendered ineffective. Permanently set values may only be changed after an approval has been obtained from DYNAPAC.

1.2 Danger area

Apart from the operator on the operating stand, no other person must remain in the danger area of a paver finisher. The danger area is considered to be the area within which persons are endangered by the movements of the paver finisher and its operating devices.

1.3 Regulations for the use of roadways and for the area of application

Only the roadways specially allocated for work by the user or his representative must be used. There must be no obstacles on these roadways.

1.4 Dangerous spots

Dangerous spots must be indicated using the usual traffic signs and any additional warning signs that may be required.

1.5 Slopes and inclines

Negotiating slopes and inclines is only permitted if they do not exceed the values specified by DYNAPAC.

2 Correct application of extensions

2.1 Using extensions

Extensions may only be applied as described in the pertaining operating instructions. The operator must have been trained in the operation of the attachments.

2.2 Allocation of extensions to the paver finisher

If the extensions have not been supplied by DYNAPAC, the instructions provided by DYNAPAC and by the manufacturer of the respective extension must be observed.

2.3 Mounting

The extension must be mounted according to the instructions provided by the manufacturer. Each time an extension is mounted, it must be checked for proper functioning before it may be used.

3 Operation

3.1 Emergency stop button

Pressing the emergency stop button (e.g. when someone enters the danger area, when the machine is no longer under control, etc.) causes the motor, the drives and the steering system to be switched off. The paver finisher is braked to a standstill. Before the finisher can be started up again, the cause of the malfunction must be determined and the malfunction eliminated. The finisher must then be started up again as described in the operating instructions.

3.2 System-specific devices

System-specific devices must be agreed upon by the user and by DYNAPAC. Safety devices related to the paver finisher must be checked at regular intervals.

4 Liability



If the paver finisher is not used correctly, safe operation of the machine cannot be assured.

Dynapac GmbH accepts no liability for personal injury or material damage resulting from improper use.

D Additional notes regarding safety

1 General hazardous situations

1.1 Danger of squeezing!

At all moving parts (hopper, conveyor, auger, hydraulic system of the screed, extendable parts, etc.) there is a danger of squeezing, nipping or shearing.



Keep away from these parts!



1.2 Danger of being pulled in!

At all rotating or revolving parts (auger shaft, conveyor, V-belt, etc.) there is a danger of getting caught, getting lapped or being pulled in.



Keep away from these parts!



1.3 Danger of falling!

Always use both hands when climbing onto or down from the paver finisher or its extensions! Do not hold any tools or other items in your hand.

Never jump onto or down from the paver finisher or its extensions while travelling! Only climb onto or down from the paver finisher or its extensions while the paver finisher is at a standstill.

Only use the steps and access boards provided for this purpose! Do not stand on other parts.



1.4 Danger of burning!

At certain parts (e.g. screed body, exhaust system, hydraulic cylinders) there is a danger of getting burnt at hot surfaces.



Keep away from these parts or wear protective gloves!



1.5 Danger resulting from malfunctions!

Malfunctioning of the paver finisher or failure of the safety devices can result in failure of the steering and braking functions, uncontrolled movements of components and leaks.



Immediately stop the paver finisher if such a malfunction occurs! Warn persons that might be endangered!



1.6 Danger resulting from misconduct!

Misconduct, carelessness and operating errors can cause serious damage.

Always act in a judicious and foresighted manner.



2 General rules of conduct

2.1 Protective clothing

Always wear all protective clothing required! Missing or carelessly used protective clothing can cause damage to your health.

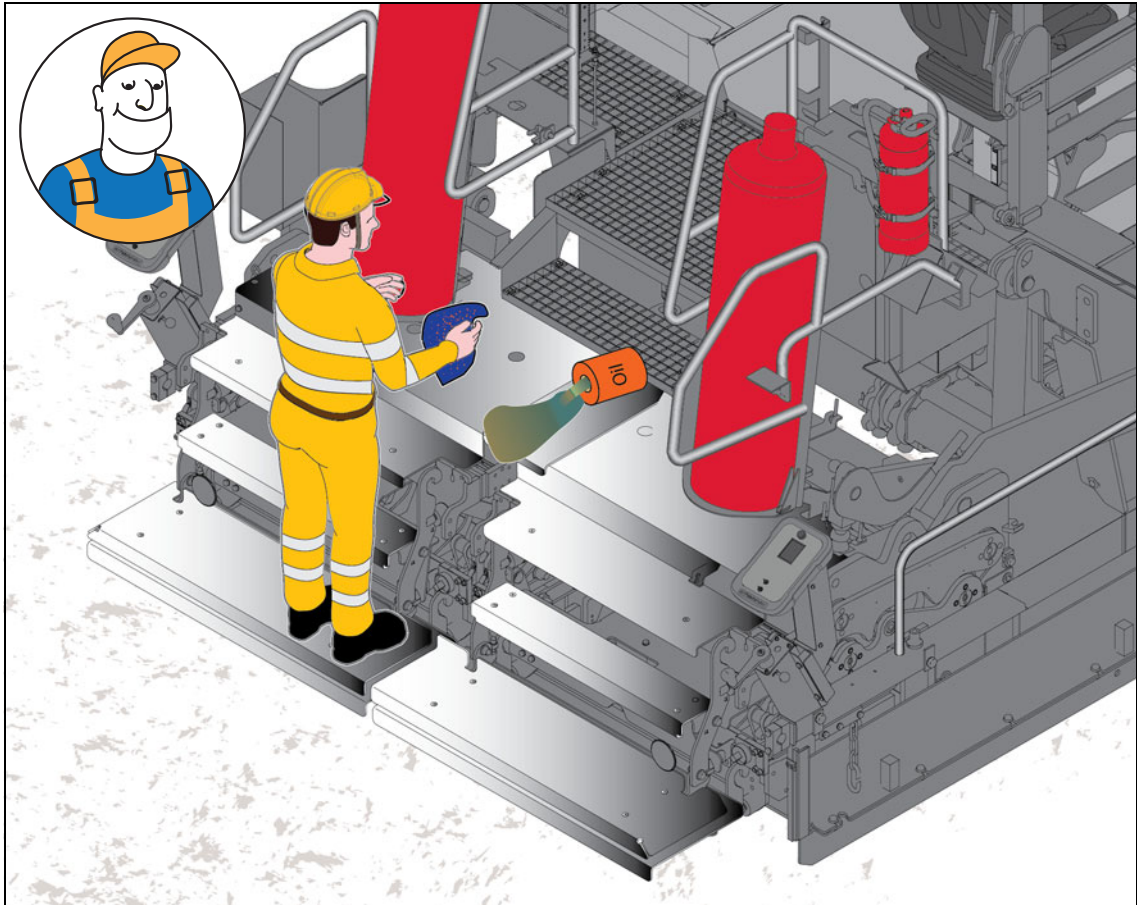
For your own protection, always wear:

- Helmet
- Protective working gear with nip protection
- Ear defenders
- Reflective clothing
- Work gloves
- When required, wear protective goggles.



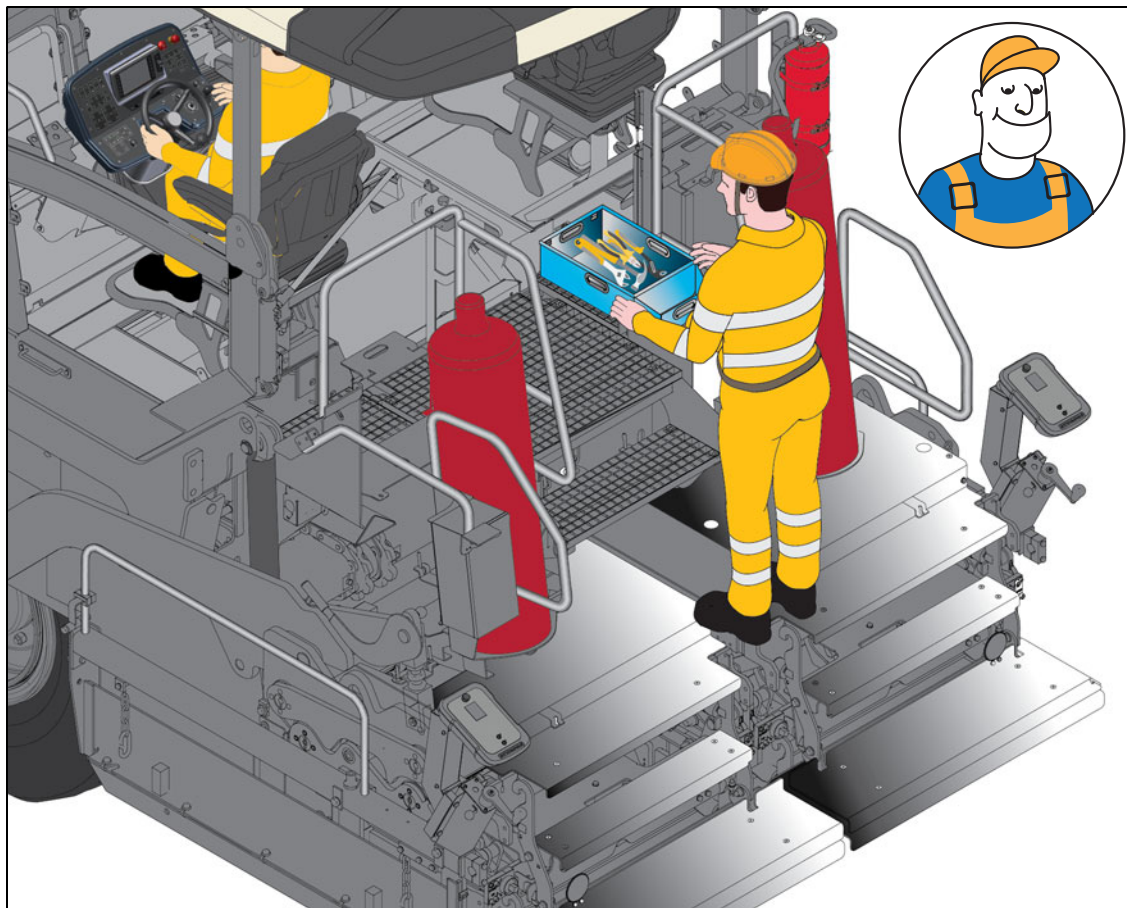
2.2 Cleanliness

Keep the operating platform, the access ladders and the steps clear! Keep the access ladders, the hand grips and the operating platform free from dirt, grease, etc. and do not spray them with solvents.



2.3 Parts

Properly secure all loose parts and stow them in the provided boxes.
The doors, containers, boxes etc. must all be properly closed and secured.



2.4 Visibility

The view on the travelling and working area must never be obstructed.

2.5 Noise

The noise produced by the motor and by other construction machines can absorb acoustic communications (commands, warning cries or horn signals).

2.6 Surroundings

Always have an eye on the entire area around the paver finisher! Maintain visual contact to the guide! Agree on the signals to be used with the guide and only follow the signals given by the guide.

2.7 Vibration

The vibrations resulting from the operation of the paver finisher can cause concentration and efficiency to deteriorate.

Take a break or ask to be relieved in time!

2.8 Inadvertent starting

Always avoid switching on or starting the machine inadvertently.

Remove the ignition key immediately after the motor has been switched off!

Secure the operating panel using the lockable hood and pull out the main switch of the battery.

2.9 Repairs



Immediately carry out all repairs required!

2.10 Miscellaneous

Secure machine parts that have been lifted or folded up from falling down or tipping. Mark open flaps (with a light-coloured piece of cloth or similar).

Keep unauthorized persons away from the paver finisher.

3 Measures to be taken in emergencies

If no other measures are stipulated by law or internal regulations, the following measures must be taken in an emergency:

3.1 General measures

- Press the emergency stop button, remove the ignition key and switch off the main switch off the battery (by turning and pulling it).
- Stay calm!
- Avoid additional damage!

3.2 Accidents

- Render the scene of the accident safe (also within the construction site).
- Give first aid. Call a doctor.
- Alarm the authorities if the accident happened on a public road.

3.3 Gas leaks

- Close the main shut-off valve and both bottle valves.
- Stub out burning cigarettes a large distance off.
- Prevent the remaining gas from leaking out.

3.4 Leaking liquids

- Prevent the remaining liquid from leaking out.
- Collect diesel fuel and oils using a suitable container.
- Alarm the authorities if diesel fuel or oils enter the soil.
- Spread a binding agent over oil that has leaked out.

3.5 Fire

- Call the fire brigade.
- Only fight the fire if you do not endanger yourself.

3.6 Short circuit

- Switch off the main switch of the battery.
- Prevent a fire.
- Eliminate the cause of the short circuit.

3.7 Technical malfunctions

- Determine the cause of the malfunction.
- To eliminate the malfunction, refer to the operating instructions.

E Transportation, commissioning and storage

1 Weights and dimensions

 See the operating instructions.

2 Transportation

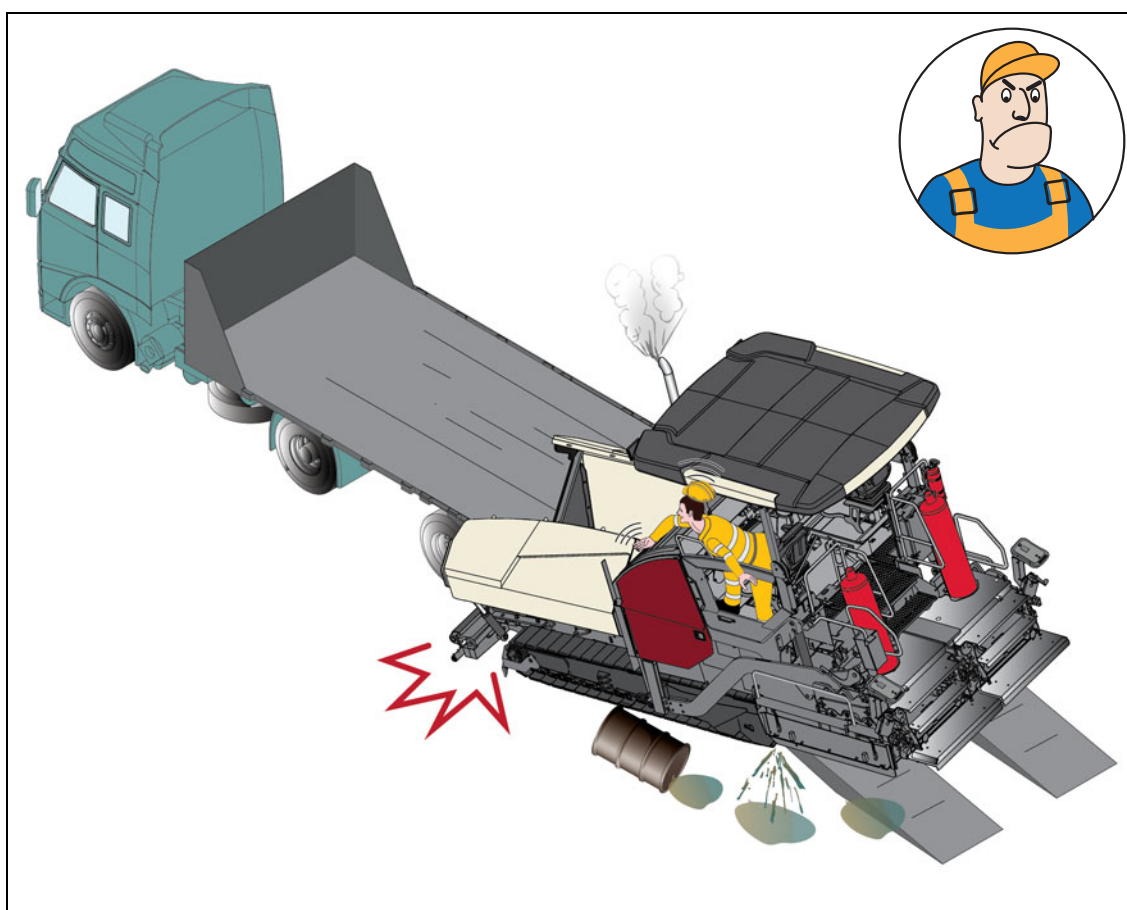
The requirements listed in the operating instructions by DYNAPAC must be observed when transporting the paver finisher.

2.1 Transportation on low-bed trailers

2.2 Personal safety

There is a risk of accident associated with any loading or unloading of a machine from another vehicle.

Never stop under or directly beside a machine which is being loaded or unloaded. Never attempt to move the machine or the tractor by hand. Be aware of the risk of getting trapped or snagged during loading and unloading work.



2.3 Transport vehicle

The transport vehicle must always comply with the requirements for transport i.e. gross weight, engine power, braking capacity etc. The transport vehicle must also be specifically intended for the transport of machines.

2.4 Loading and unloading with the help of a ramp

Large machines are loaded and unloaded with the help of a ramp. Always ensure that the ramp is intact. It is best to use a non-slip metal ramp. Never use wooden ramps, which are of inferior quality. Check that the ramp is properly secured to the transport vehicle and to the ground. Also keep the ramp completely clear of oil, snow, ice or slush at all times.

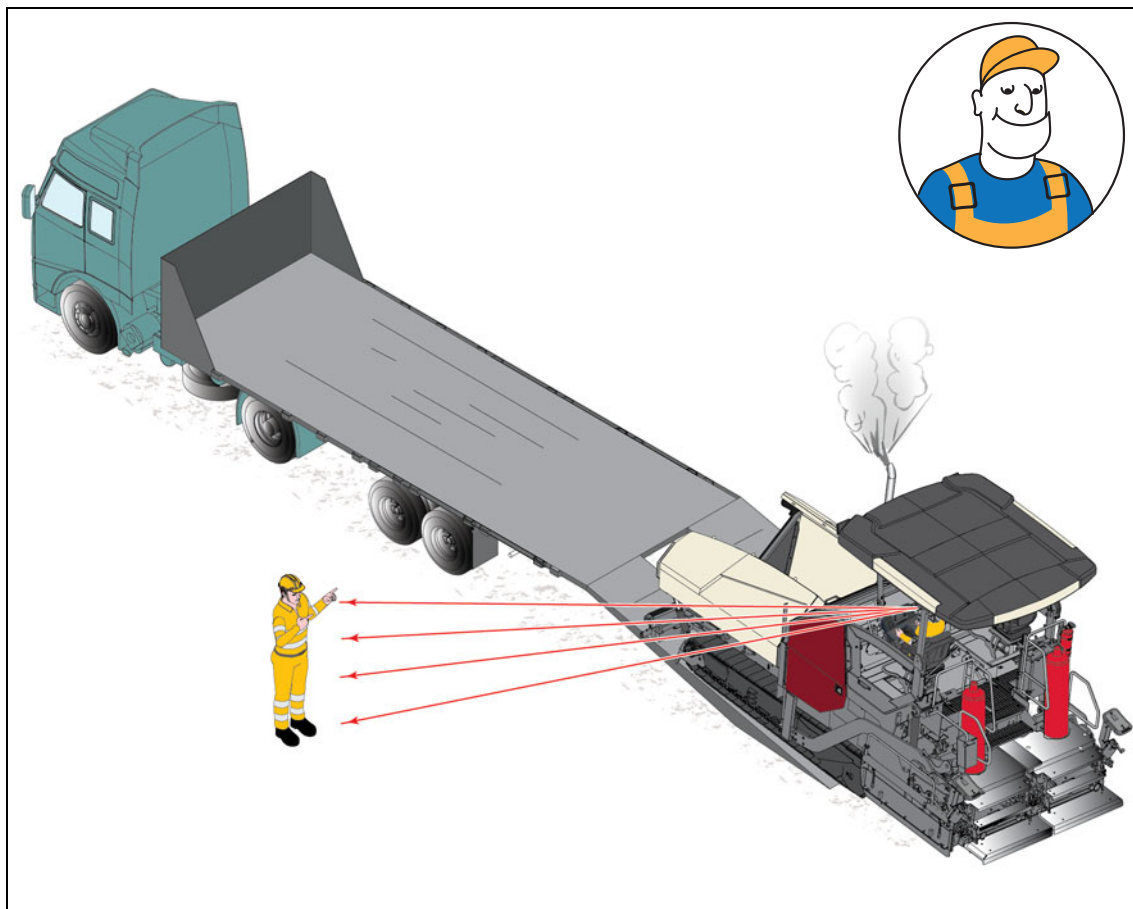


Ensure that no-one is in danger in the event of the machine tipping or slipping. A signalman standing outside the danger area and within the field of view of the driver must be involved in these operations.

The driver must only ever obey signals from the official signalman.



Always only use the working gear to drive up and down slopes!



Ensure that the transport vehicle is secured with brake blocks and that the pull rod is jacked up. Secure lifting chains to the machine and winch on the transport vehicle. Always use sufficiently powerful chains or steel cables: never use single cables.

When lifting the machine, always use cranes with adequate lifting capacities.



Maintain the required safety distance from tensioned chains or cables.

Ensure you comply with the correct loading dimensions, especially overall width and height.

Ensure that the machine is cleaned before every transport operation.

Winch up the machine. Apply the parking brake/emergency stop switch on the machine. Secure the machine properly on the tractor vehicle (refer to instruction manual). Check that there are no loose parts on the machine.

3 Assembly of the paver finisher and mounting of extensions

For assembling parts of the paver finisher on site or mounting extensions, the pertaining specifications in the operating instructions must be observed. Prior to commissioning, proper functioning of the paver finisher and of any extensions must be checked by an expert.

4 Checks prior to commissioning

Prior to commissioning, the paver finisher must be checked according to the specifications in the operating instructions.

Items to be checked include, for example:

- motor oil level
- fuel level (to be topped up)
- electrical system: electrical lines, cable connectors and cable connections (to be checked for damage and firm seating)
- battery: acid level and acid density
- hydraulic system: oil level
- brake system
- steering system
- extensions
- any automatic functions

5 Measures to be taken when decommissioning the finisher for longer periods of time, storage and disposal

If the paver finisher is to be decommissioned for a longer period of time, appropriate measures must be taken to protect it from corrosion. The battery must be removed and the fuel tank is to be topped up. Paver finishers with wheels must be jacked up to prevent the tyres from flattening.

After worn parts or spare parts have been replaced or if the machine is to be placed

out of service (scrapped), the individual materials must be properly sorted and disposed of. Iron, nonferrous metals, plastics, electronics, etc. must each be separately disposed of. Parts that have come into contact with oil or grease (hydraulic hoses, lubrication lines, etc.) must be separately treated.



The pertaining additional specifications in the operating instructions must be heeded.

F Operation

1 Driver seat and driver platform

Paver finishers with a driver seat or driver platform may only be operated by persons who are at least 18 years of age, who have been trained in the operation of paver finishers, who have demonstrated to the user or his representative their capability of driving and handling the paver finisher, and who have expressly been charged by the user or his representative with the operation of the paver finisher. In addition, special knowledge about the paver finisher to be operated is required.

2 Rights, duties and conduct of the driver

The driver of a paver finisher must have been informed on his rights and duties. All necessary rights must be granted to him. He should wear protective clothing suited for the operating conditions. The driver must be familiar with the operating instructions, and a copy of the operating instructions must be available to him at any time. The user must ensure that the driver has understood all information related to safety.



3 Prohibition of unauthorized use

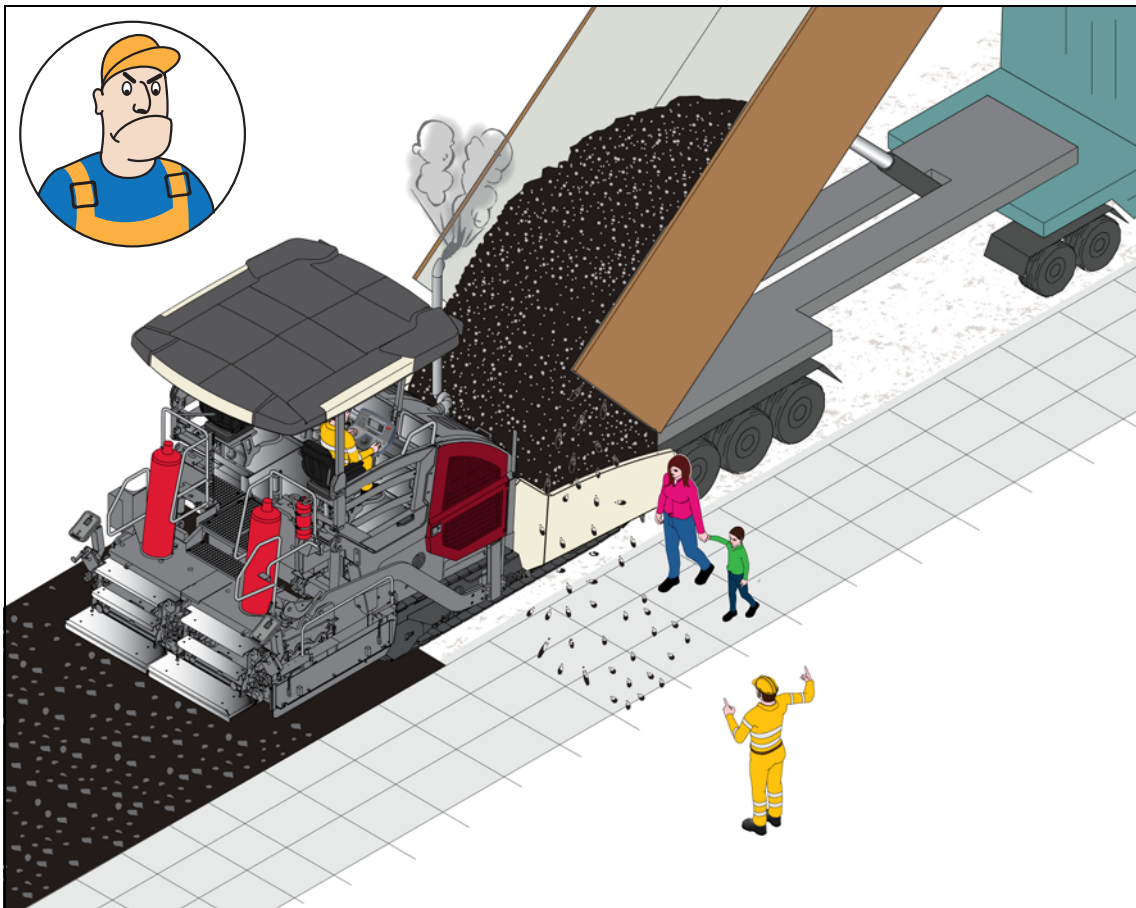
The driver is responsible for the paver finisher during working time. He must forbid unauthorized persons to operate the paver finisher. When leaving the paver finisher, he must protect it from unauthorized use. The driver may only transport persons if the paver finisher is specially equipped for this purpose. The maximum number of persons that may be transported must not be exceeded.

4 Persons in the danger area

Before starting up and during operation of the paver finisher, the driver must make sure that there is no-one in the danger area. He must give a warning signal whenever a situation presenting danger to persons might develop. He must immediately stop work if any person, although asked, does not leave the danger area. All persons that are in the vicinity of the paver finisher must be informed on the dangers that can result from the operation of the paver finisher.



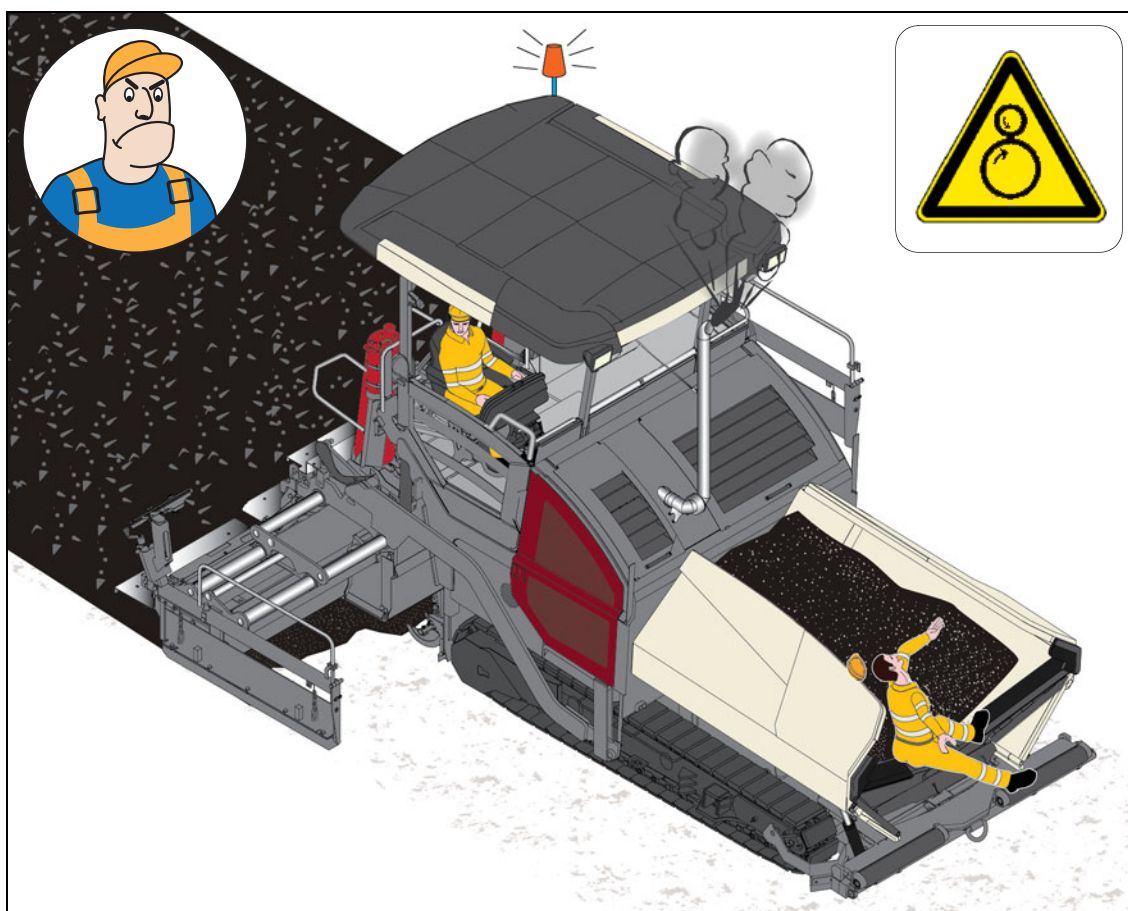
Do not climb or reach into moving parts.




All work must be stopped immediately if ever anyone ignores warnings and moves inside the danger area.



Never crawl into the auger tunnel or step into the hopper or onto the conveyor when the engine is running. Danger to life and limb!



5 Functions of the controls and display instruments

 Heed all information given in the operating instructions on these items.

5.1 Starting up

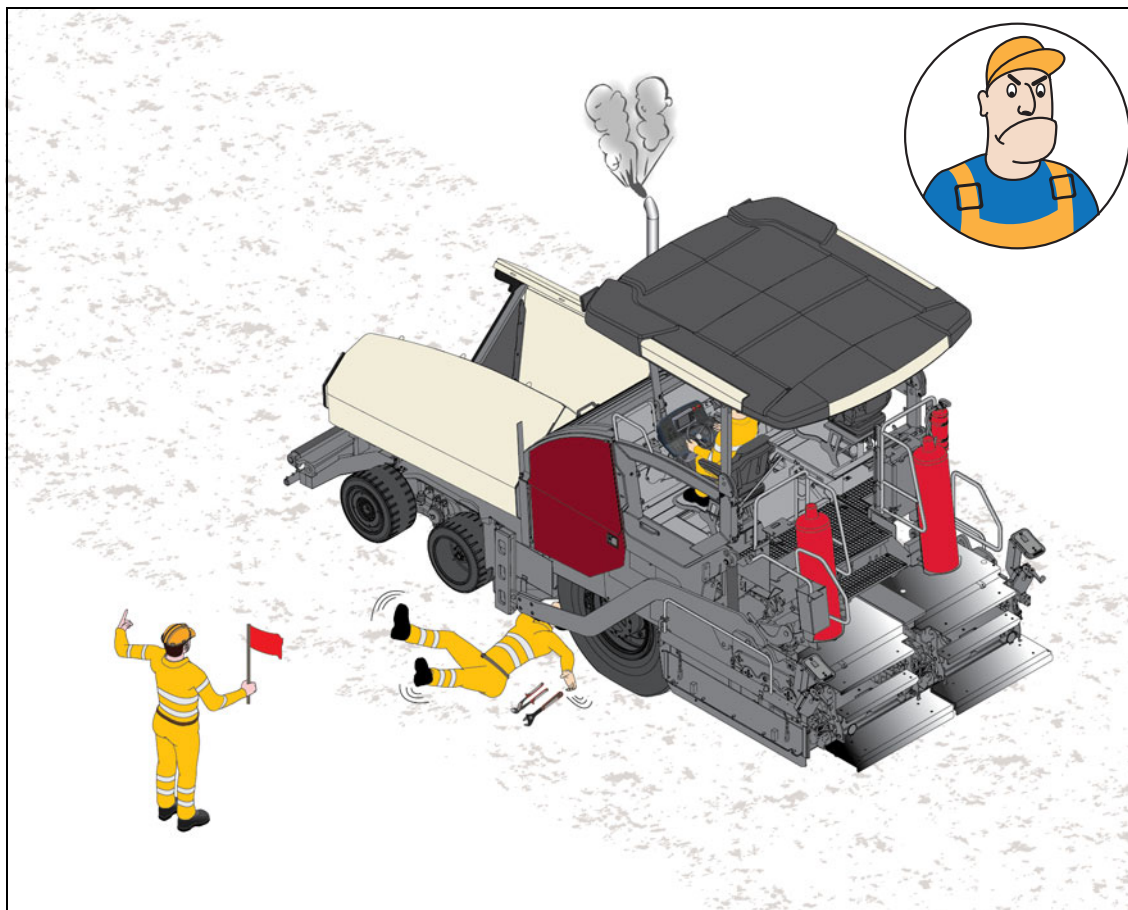


Starting the engine, the traction drive, the conveyor, the auger, the screed or the lifting devices can cause injuries or even the death of persons.

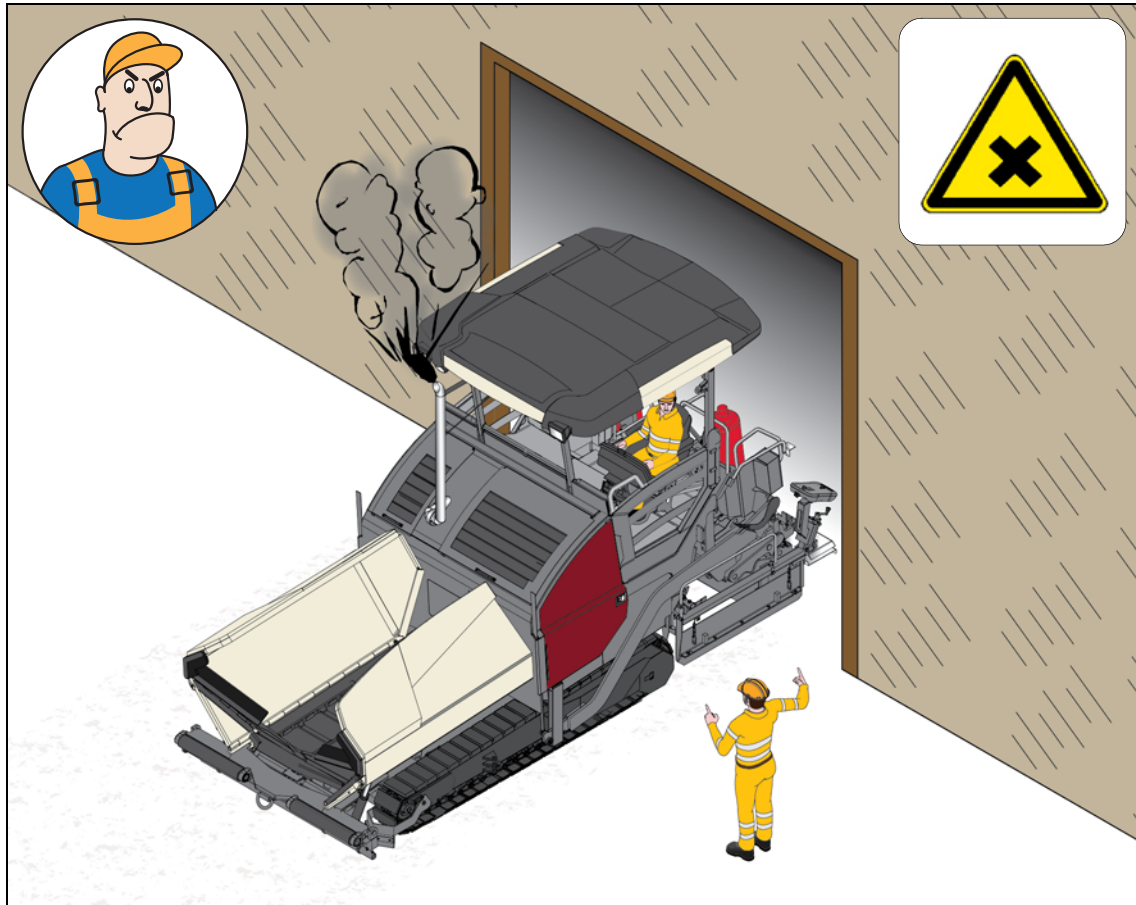
Make sure before starting any of these devices that no-one is working at, in or beneath the paver finisher or within its danger area!

Do not start the engine and do not actuate any controls when this is expressly forbidden!

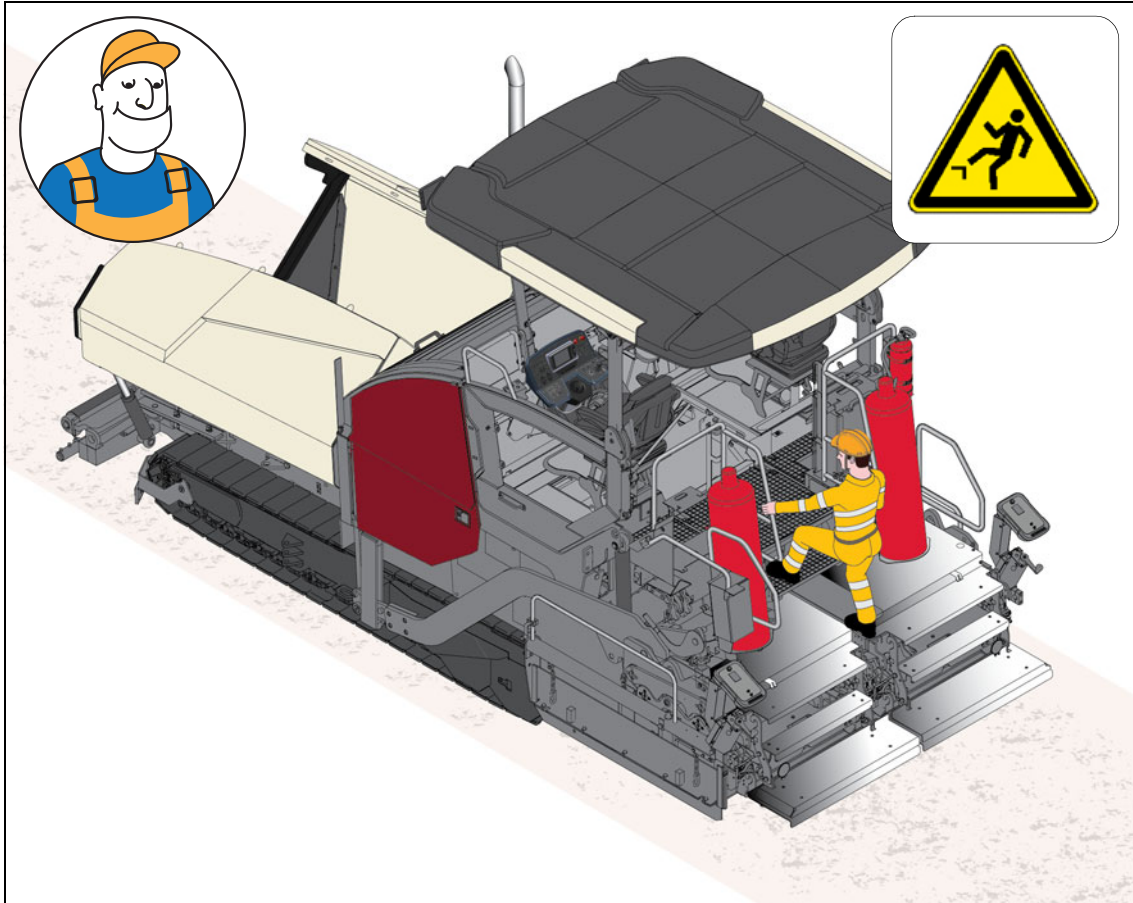
Unless otherwise specified in the operating instructions, the controls may only be actuated when the engine is running!



Never start up this machine in an environment where it is believed explosive gases may be present, and never work in enclosed, unventilated rooms below ground level / underground. Always remember that the engine emits toxic and potentially lethal gases. Always ensure that the working area is well ventilated.



Only board or alight from the machine while the machine is stationary. Use the handles and retaining fixtures provided. Never adjust the driver's seat while the vehicle is in motion because the seat position may alter accidentally in the process. After setting the backrest position, check that it is properly secured in this position. When driving, always remain seated on the driver's seat.



5.2 Action after the start-up

- Check that all instruments start to display readings.
- Set off to check that the machine is working properly, and also check that it responds correctly to all its controls – especially the brakes. The instructions in the operating manual apply at all times.
- If you detect any malfunctions, switch off the engine and fit an appropriate warning label when leaving the machine.

5.3 Starting at low ambient temperatures

Follow the instructions for starting at low ambient temperatures. When using starter gas, always follow the manufacturer's instructions for the type of gas being used.

When starting the engine with the help of jump leads, follow instructions precisely. Otherwise there is a risk of serious injury and damage to the machine, electrical damage and damaged electronic equipment resulting from a battery explosion, corrosive acid etc.

Remove all the cell covers and place a cloth over the openings on the battery cells (this does not apply to zero-maintenance batteries).



Ensure that no sparks can be caused when connecting up the cables.

6 Bear the following point in mind:

- Whenever the engine is running, never leave the driver's seat without setting the drive lever to zero and shutting down all automatic functions.
- Always manoeuvre the machine carefully.
- Always keep the working area well supervised, especially when reversing the machine.
- Always keep a watchful eye for any possible signs of damage to the machine (can you see, hear or smell anything out of the ordinary?).
- Always ensure that you never inhale exhaust gases (these gases include carbon monoxide, which can be lethal).



7 Working safely

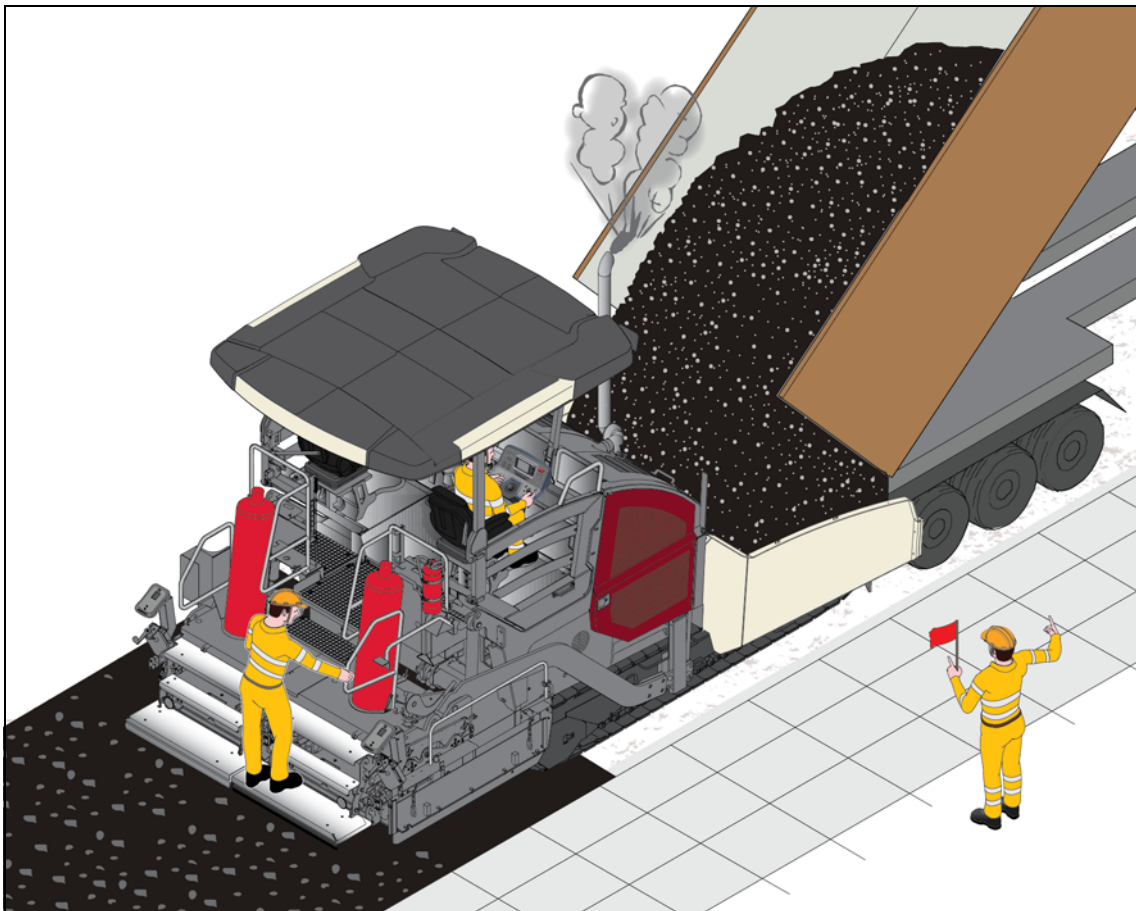
- Use your paver finisher and equipment properly, but do not „misuse“ them! Misuse of your equipment may lead to severe accidents!
- Be familiar with and heed all of your co-workers' signs and signals.
- Always monitor your colleagues, other workers and machines on the construction site!
- When working with heavy accessories, always observe the valid regulations and protective measures for raising heavy loads!



If you do not have a clear view of any of the areas surrounding the machine, you should post monitoring personnel around the machine.

Do not operate the machine until these monitoring personnel indicate that the danger area is clear.

Inform yourself to this effect from the hand signals / signs made by monitoring personnel.



8 Operation with feeder

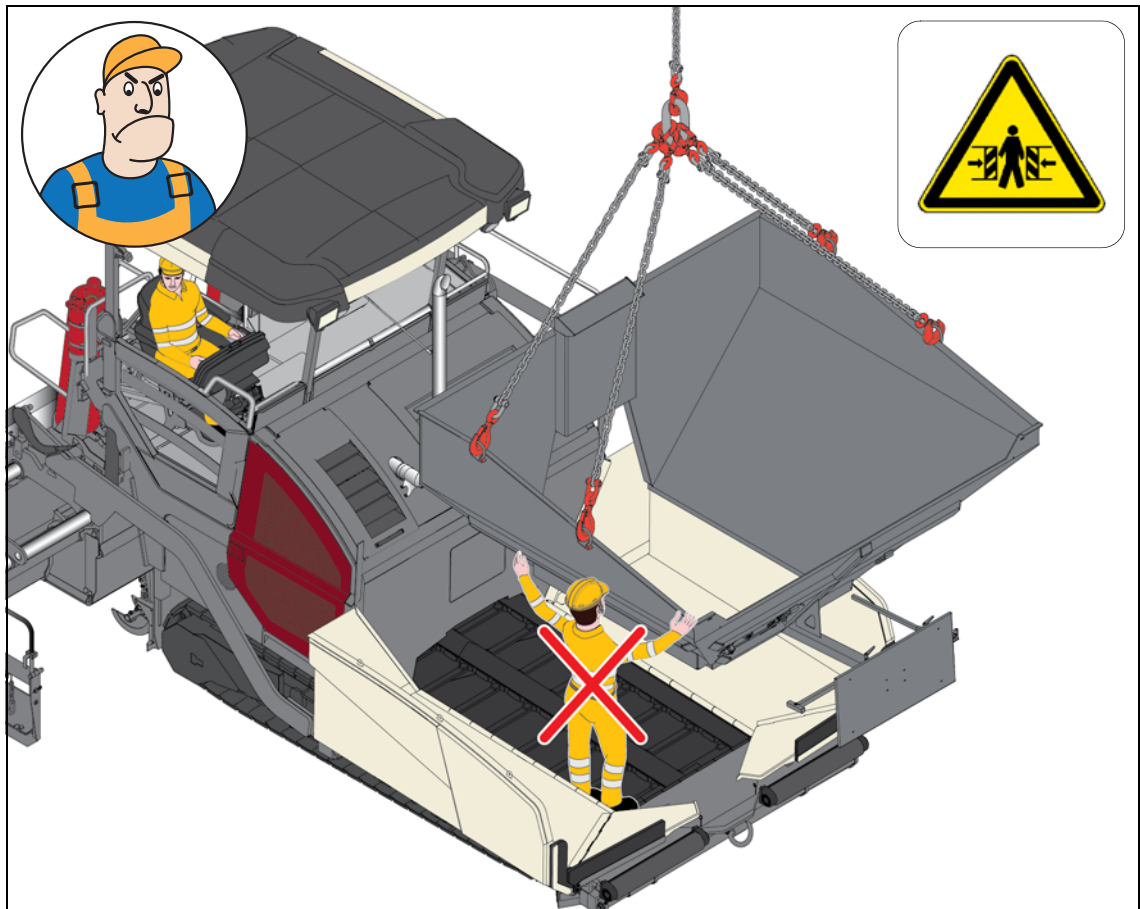


Please observe the following regulations when the paver finisher is operated with a feeder:

- Always keep material transfer from the feeder to the paver finisher centrally above the paver finisher's material container to avoid endangering personnel due to hot material!
- The area between the feeder and the paver finisher must not be entered by personnel!
- Note that the paver finisher's operating weight and braking characteristics change due to the use of an additional material container.
- Implement additional precautionary measures if visibility is limited due to an additional material container in the paver finisher's hopper.

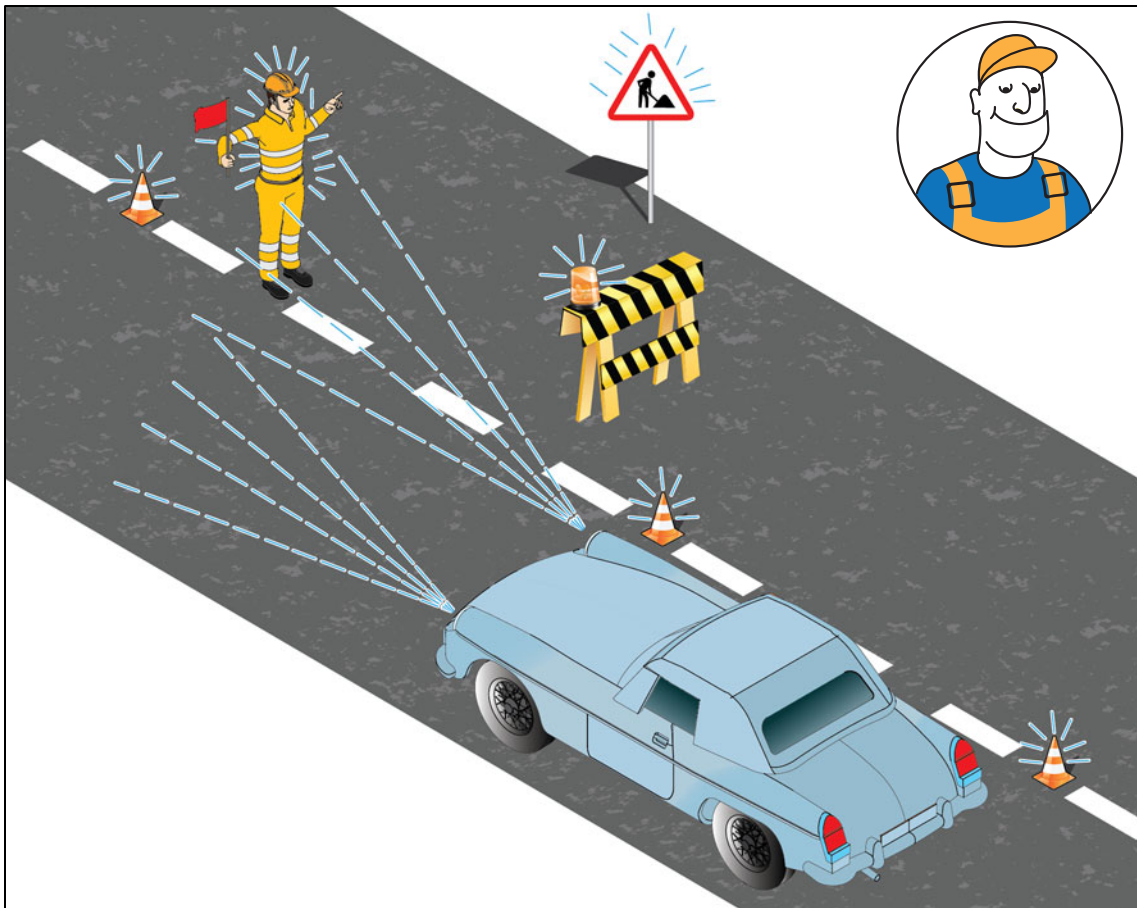


- Park the paver finisher securely and pull the main battery switch before carrying out work on the additional material container in the paver finisher's hopper!

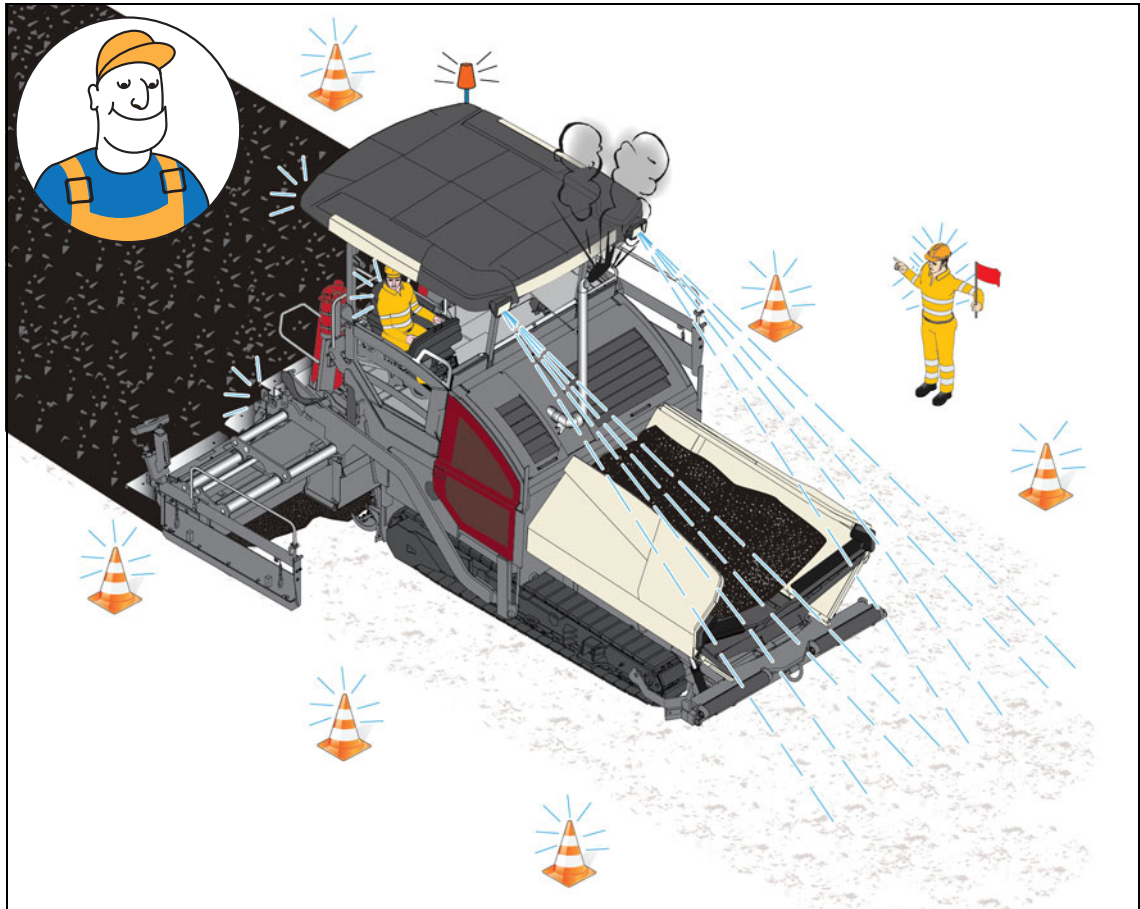


9 Operation at night / night work

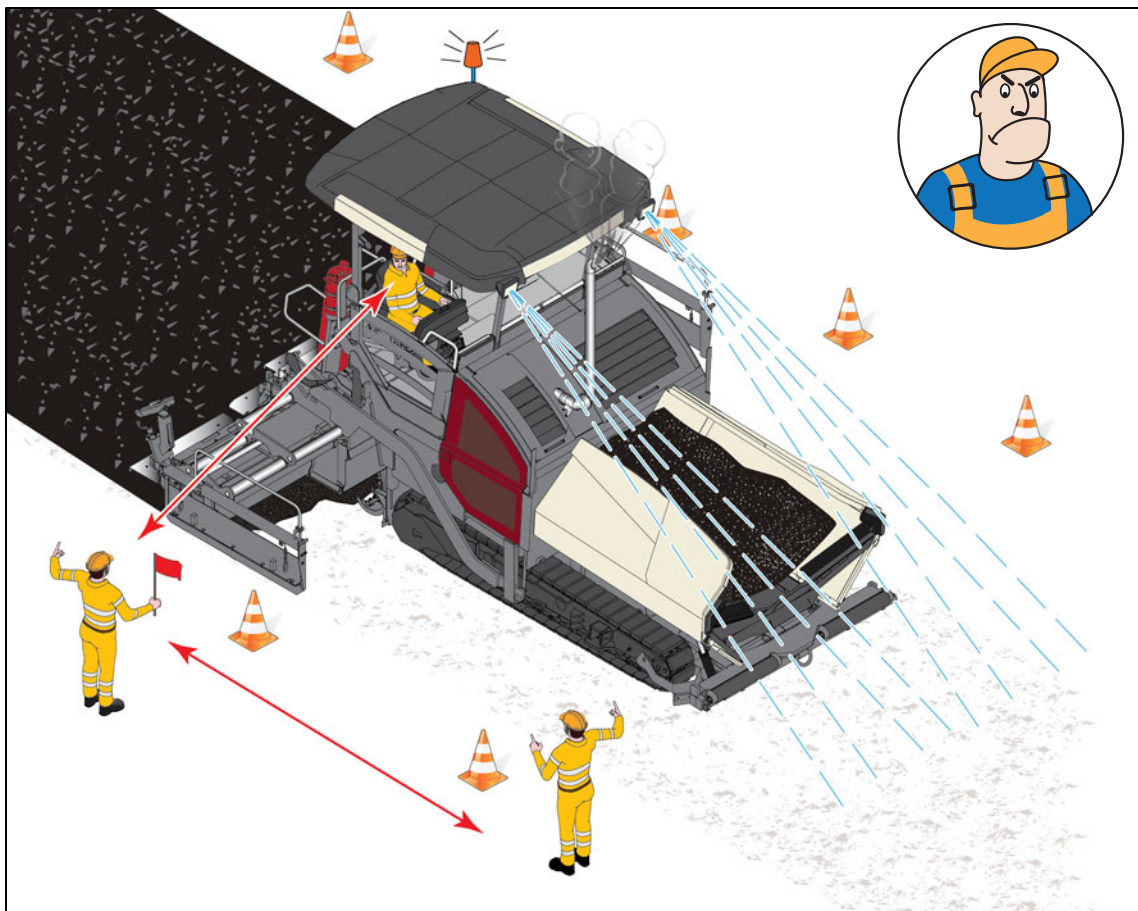
- Night time operations differ fundamentally from operations during daylight! Maximum attention is always required during night time operations! Persons passing the construction site area may possibly be unaware of the dangers which exist!
- Plan and discuss the operation carefully. Inspect the working area regularly during daylight and mark obstacles and danger points with reflectors or other suitable aids!
- All operating personnel must wear suitable, reflective protective clothing during night time operations!
- Make sure that the construction site area is adequately illuminated. Observe the local illumination regulations!
- Make sure that displays and controls are clearly visible and easily legible!



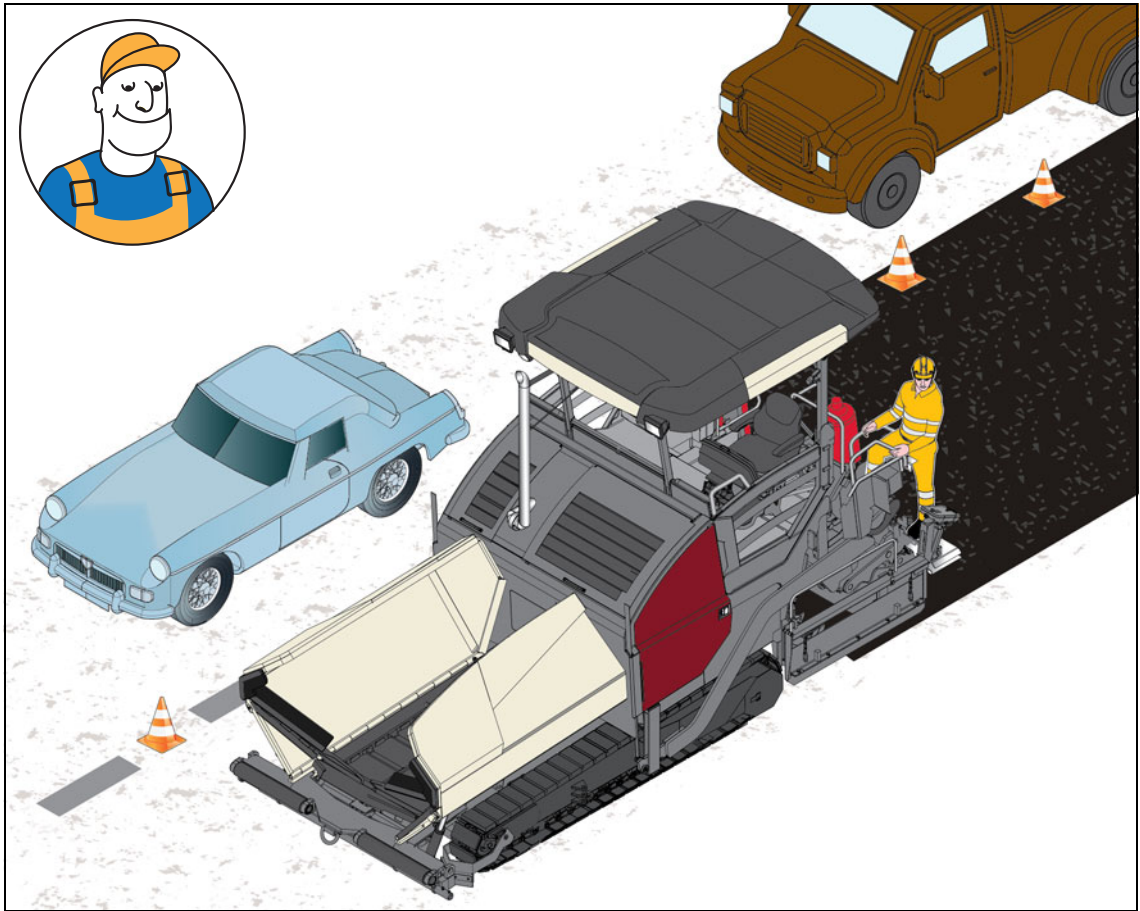
- Make sure that the paver finisher is adequately equipped with warning lamps (rotary beacons, etc.). Observe the local regulations regarding warning lamps!



- Only ever work using direct visibility at night. Do not use mirrors! If direct visibility is not possible, use official signalmen. Lighting can be reflected by mirrors, causing risks due to overlooking and blind spots.
- The lack of natural light increases the risk of being hit by vehicles or equipment!
- Always align the working lights so that dazzling the operating personnel or other road users is avoided.
- Always be aware of the current whereabouts of your colleagues. Also inform your colleagues of the area to which you are moving.
- Avoid fatigue! Also check your colleagues for fatigue.
- Remain only in the assigned working areas.

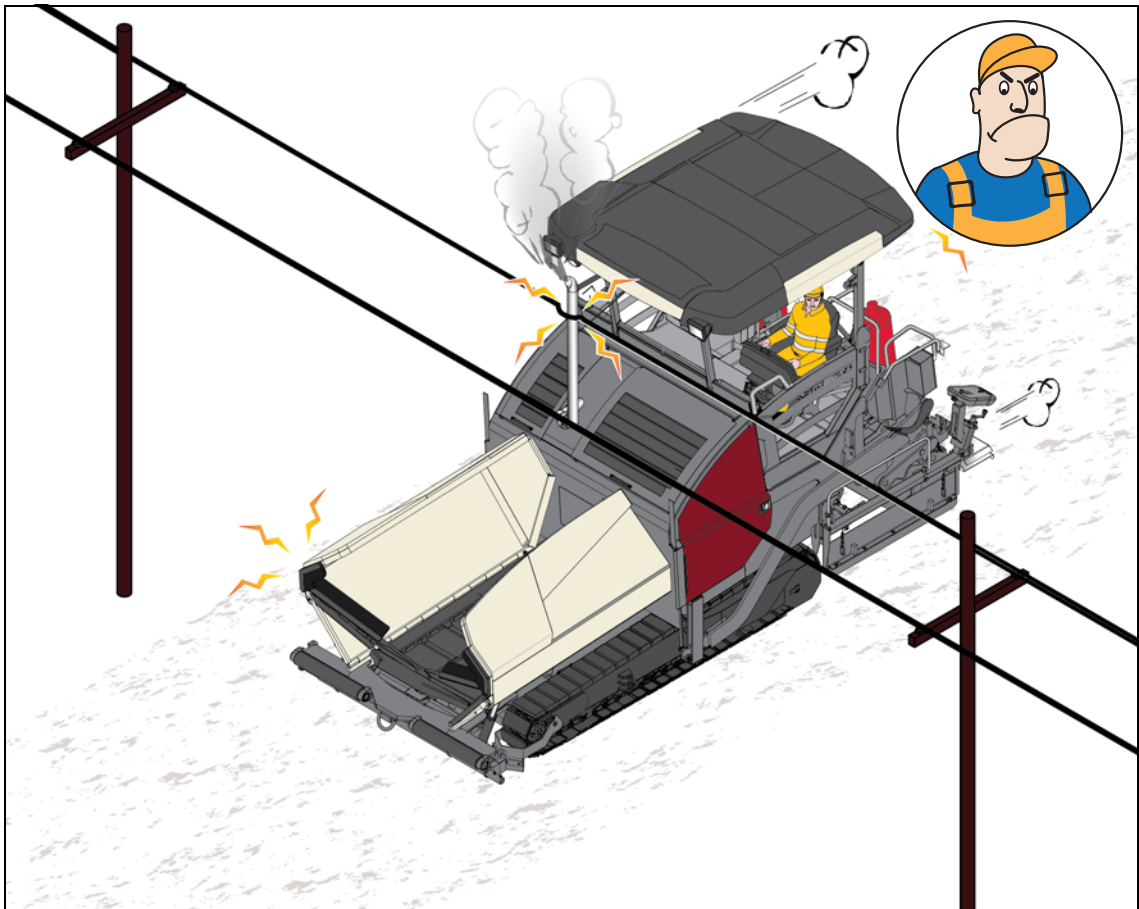


- Only enter and leave the paver finisher on the side away from traffic.



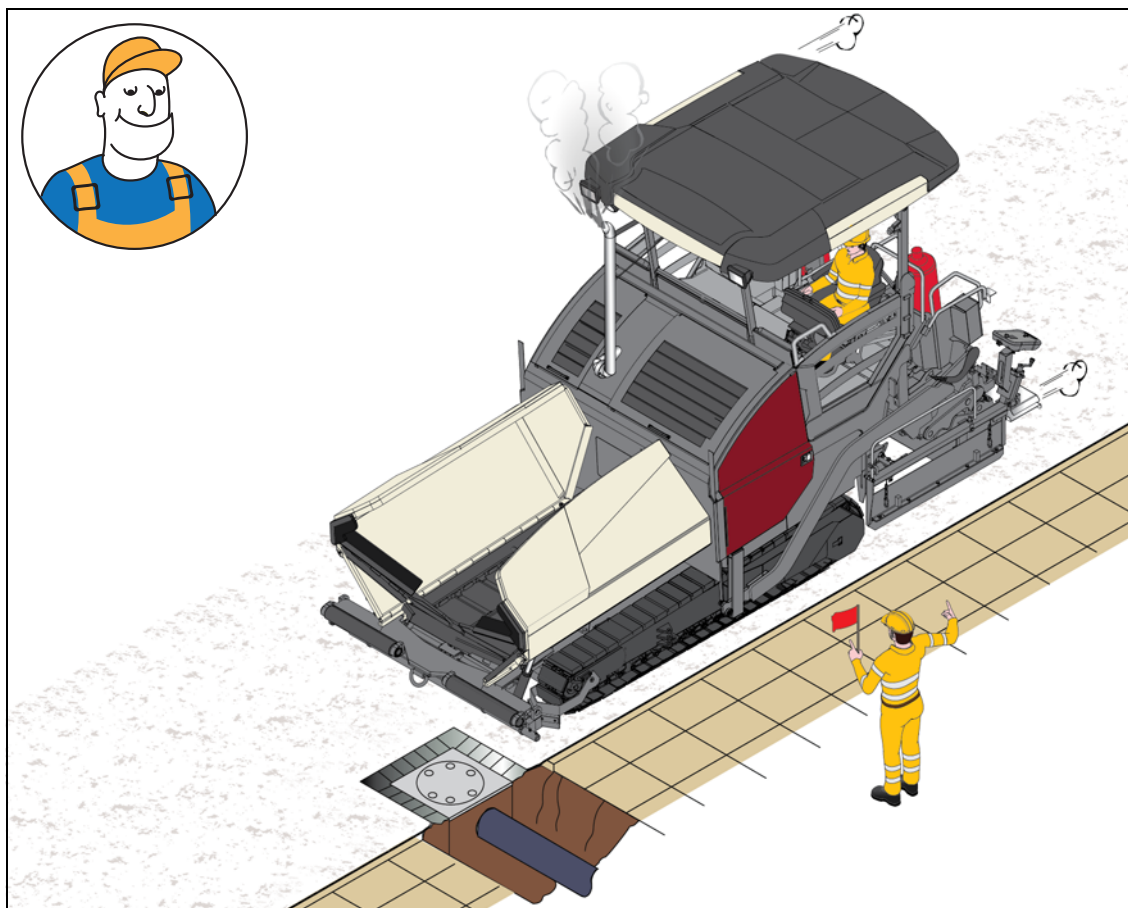
10 Asphalt fume control system

- Always use the asphalt fume control system when paving hot material mixtures!
- Ensure that no paving material or other foreign bodies are able to enter the asphalt fume control system!
- Park the paver finisher securely and pull the main battery switch before carrying out maintenance work on the asphalt fume control system!
- Ensure that sufficient clearance is available between the asphalt fume control system's air outlet pipe and obstacles such as bridges and overhead cables!



11 Driving over unsure ground

Avoid driving close to kerbs, roadworks (i.e. excavations) etc. Always bear in mind that humidity and poor ground conditions can adversely affect the load-bearing capacity of the machine. Pay careful attention to obstacles which may exist above the machine, e.g. low-hanging overhead cables, branches etc.





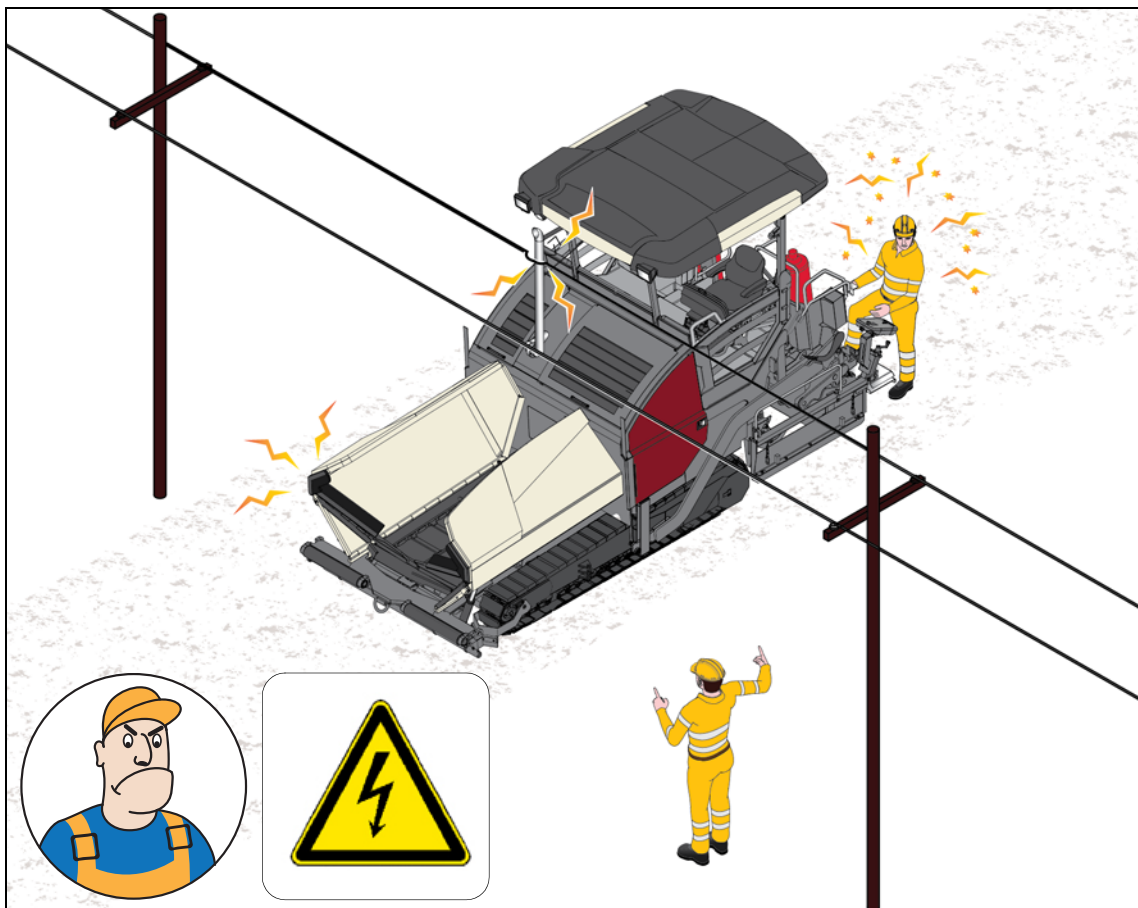
Whenever you are working near electrical power lines, you must ensure that the machine never comes into contact with them.

Danger to life.

Information must be obtained about the correct safety distances.

The following points must be observed if ever the machine makes contact with high-voltage power lines:

- Never leave the machine.
- If possible, the machine must be driven out of the danger area.
- Warn people to prevent them from approaching and touching the machine.
- Disconnect the power supply.
- Only leave the machine once you are certain that the damaged or contacted power line has been completely isolated (i.e. is electrically dead).



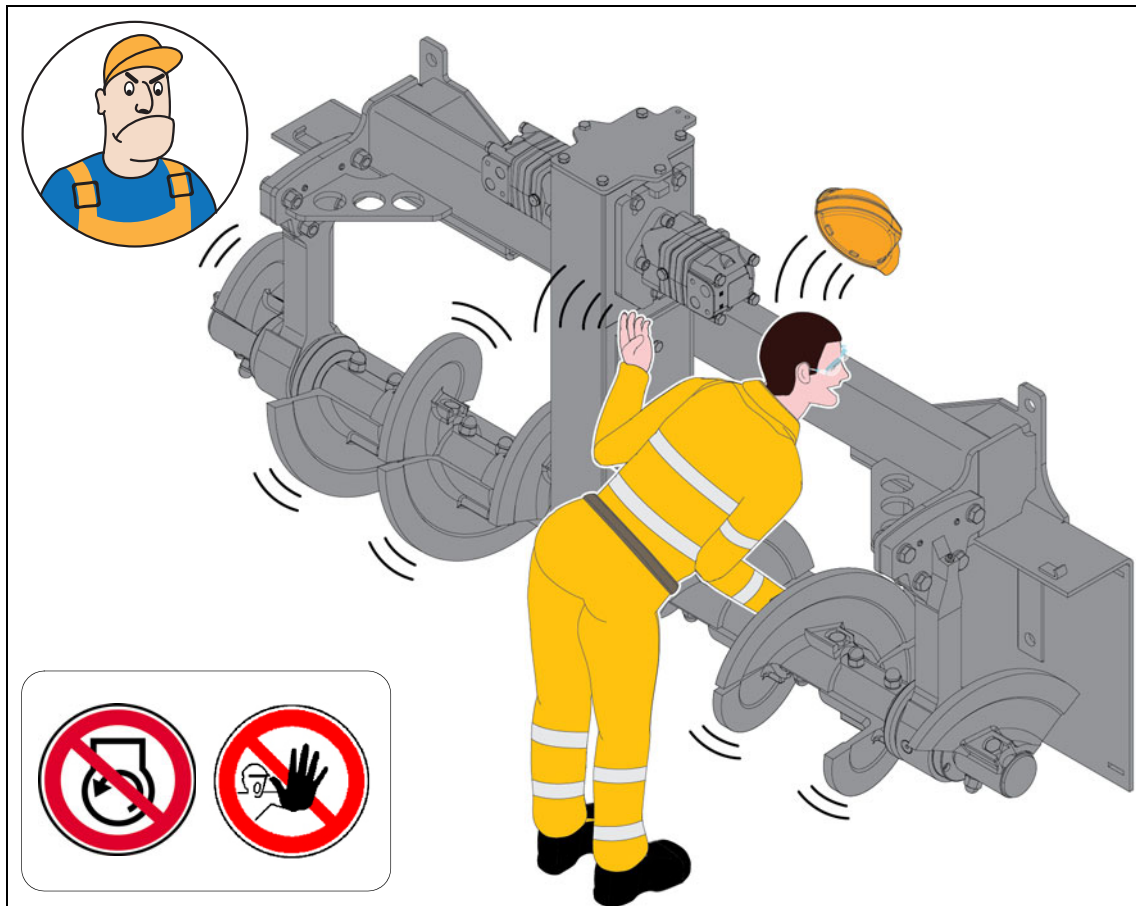


The machine is grounded/earthed when in operation and may as a consequence attract lightning strike. During thunderstorms, you should therefore always leave the machine.

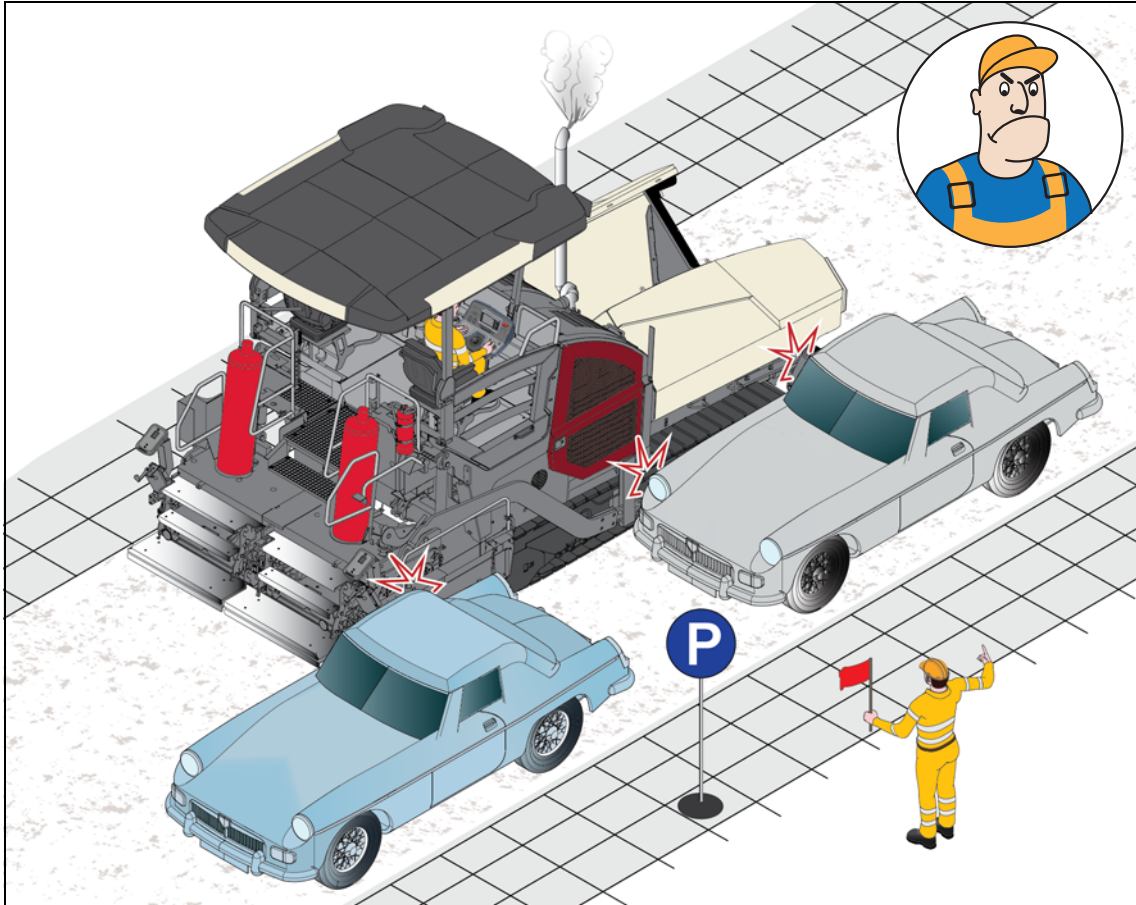


During cleaning work, never reach a hand into the machine's conveyor equipment while still in operation.

All drive units must be completely shut down before any work commences on the machine.



The working equipment must only ever be switched on when work is being carried out. Never do so when the machine is in transit or is being driven to a different location.



11.1 Conduct during travelling

Always make sure during operation that no-one is endangered by the machine! Ensure that all protective covers and hoods are fitted and secured accordingly!

When damages are detected, eliminate them immediately! Immediately stop operation when the paver finisher is defective!

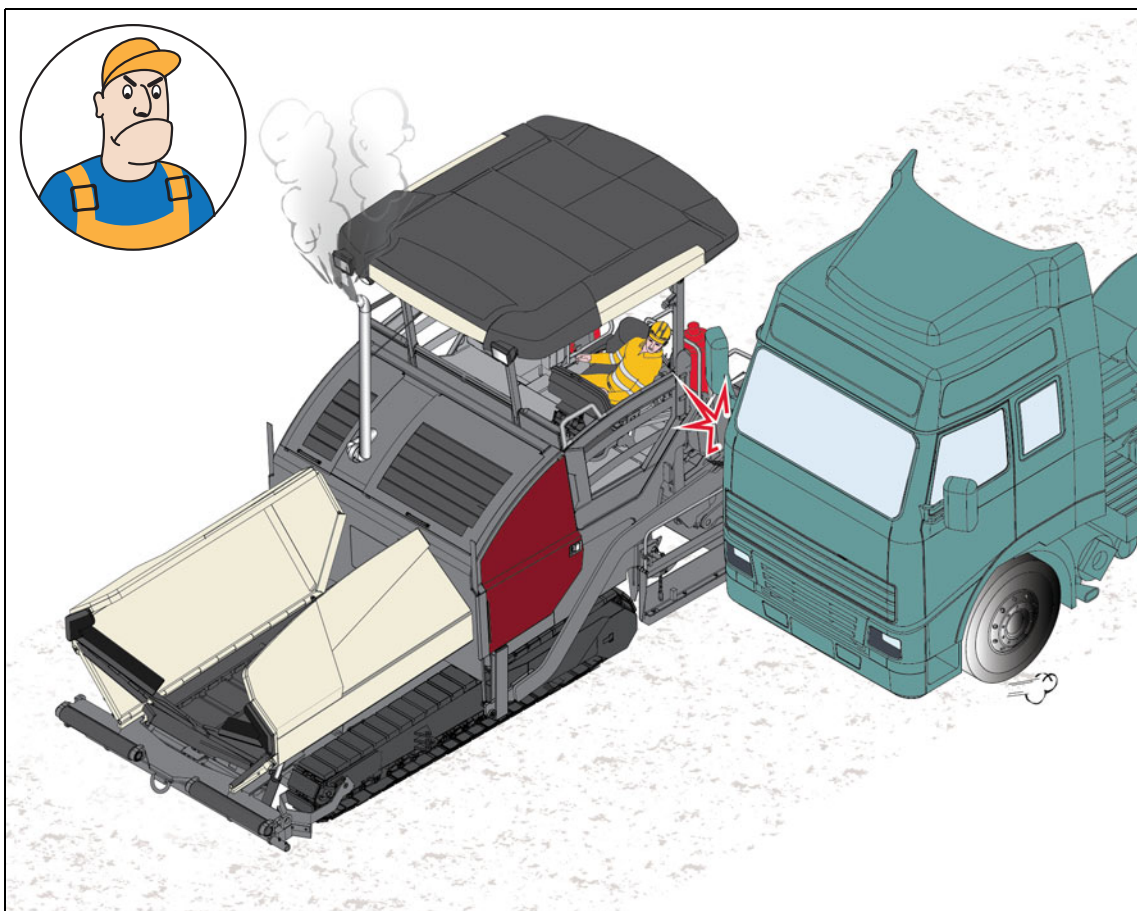
Do not let any persons ride on the paver finisher or on the screed!

Remove any obstacles from the road and the work area!

Always try to choose a driver position that is opposite to the flowing traffic! Lock the operating panel and the driver's seat.

While travelling,

- do not let your arms and legs hang out of the driver stand,
- do not lean beyond the outer edges of the paver finisher,
- do not climb from one vehicle onto another or onto permanent structures.



Keep a sufficient safety clearance to overhanging objects, other machines and points of danger!

Be careful when travelling on rough terrain to keep the paver finisher from slipping, tipping or turning over.

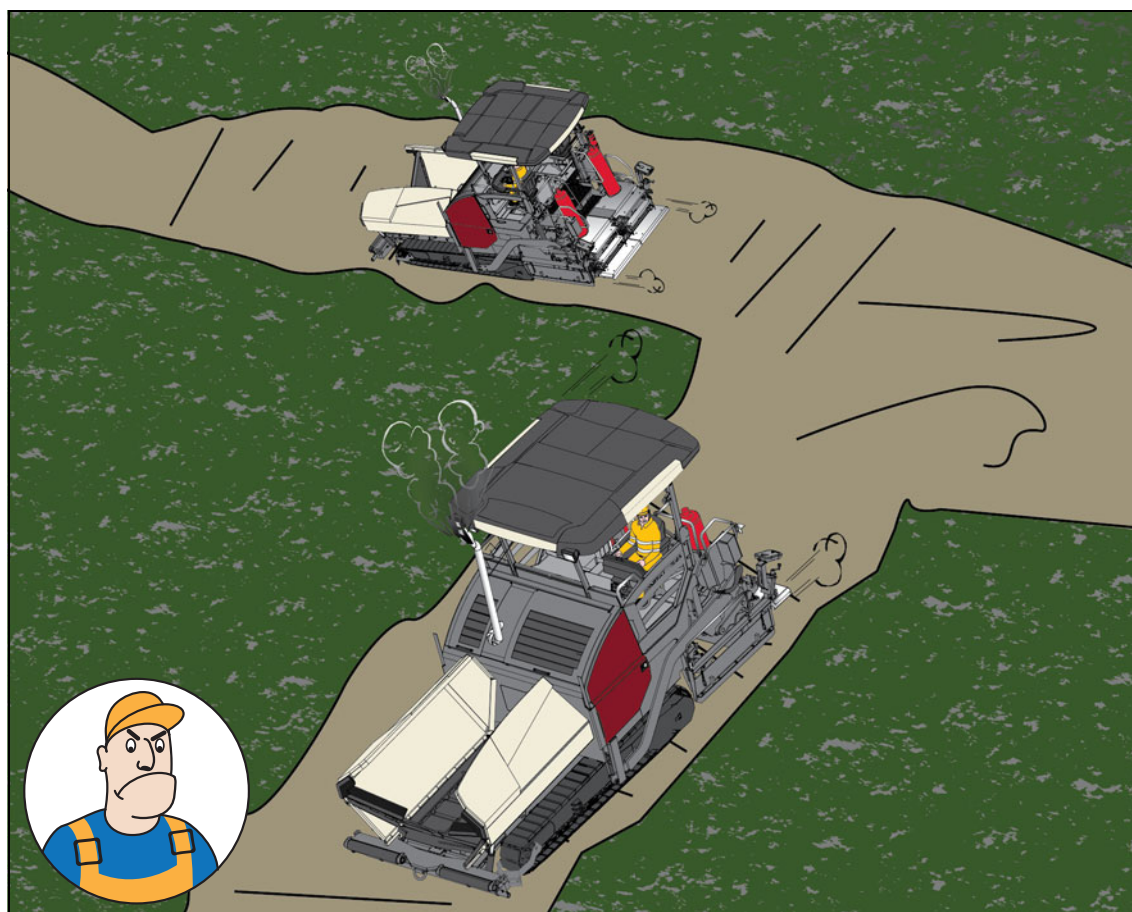
Never use the paver finisher beyond its capacities to avoid losing control over the machine!



Always only use the working gear to drive up and down slopes!



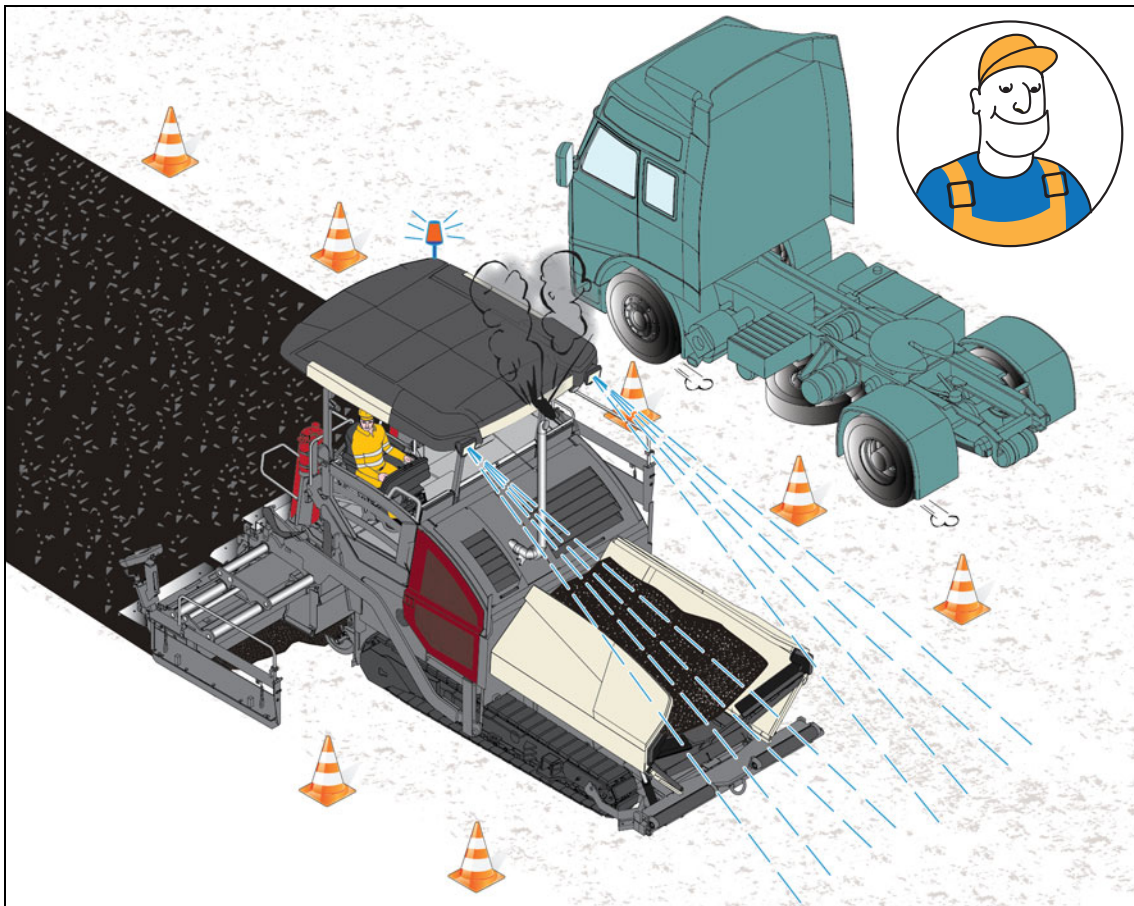
Whenever the machine is operating, someone must always be on the driver's seat at all times. Where necessary, wear a seatbelt.



11.2 Visibility

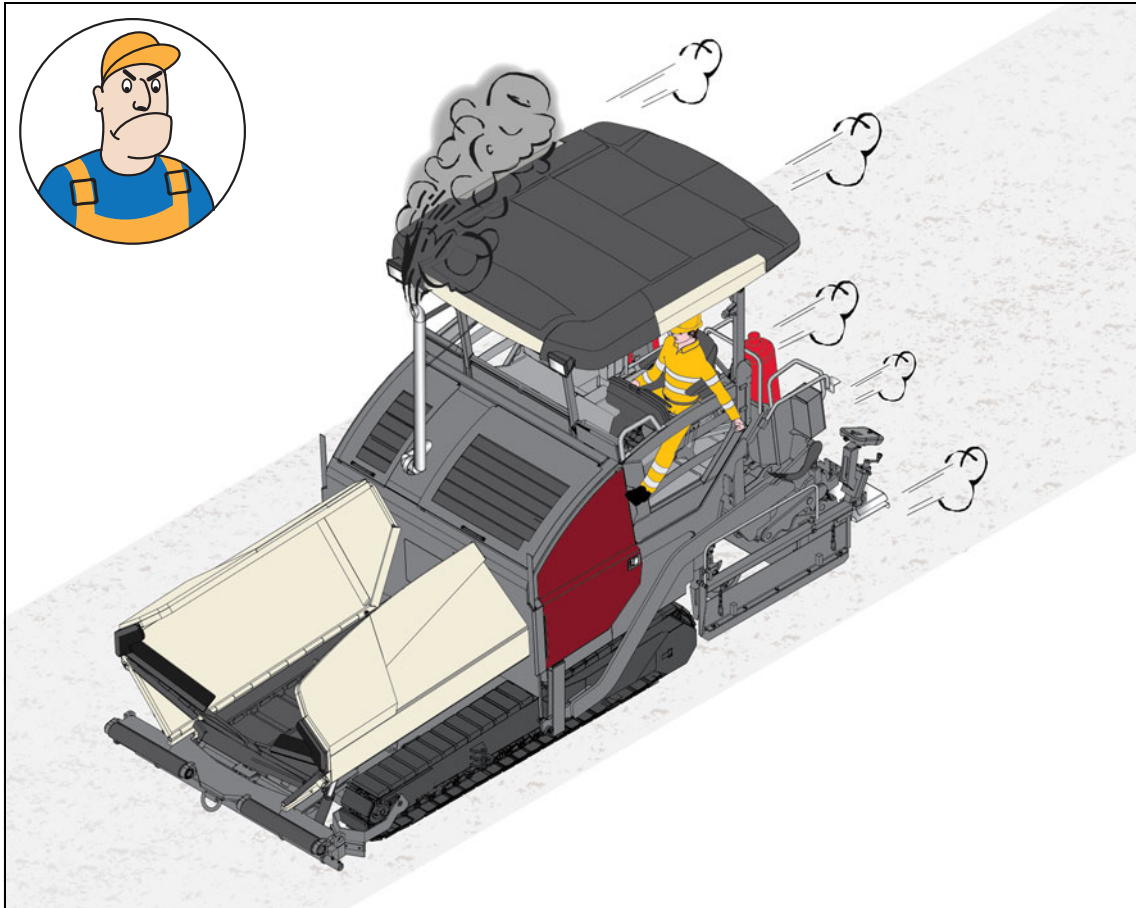
The driver must look in the direction of travel and must always have a clear view of the route ahead. Especially when driving in the reverse direction, he must ensure that his path and the working area are clear.

The machine must be equipped with the specified lighting equipment to suit prevailing working conditions. Check that all equipment operates in accordance with specifications. All headlights must be adjusted in such a way that other road users are not dazzled by glare.



11.3 Braking

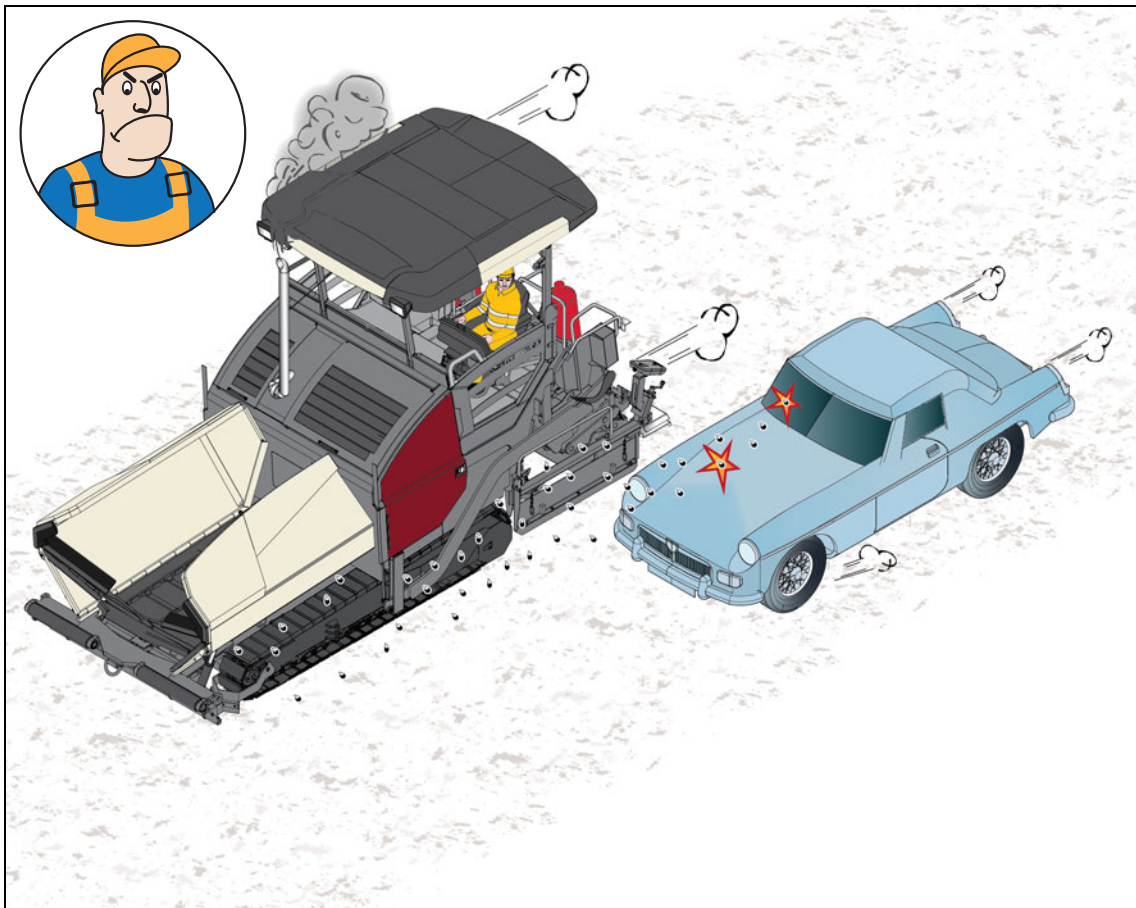
The driver must select a travelling speed that always provides a sufficient braking distance.



12 Transportation on public roads

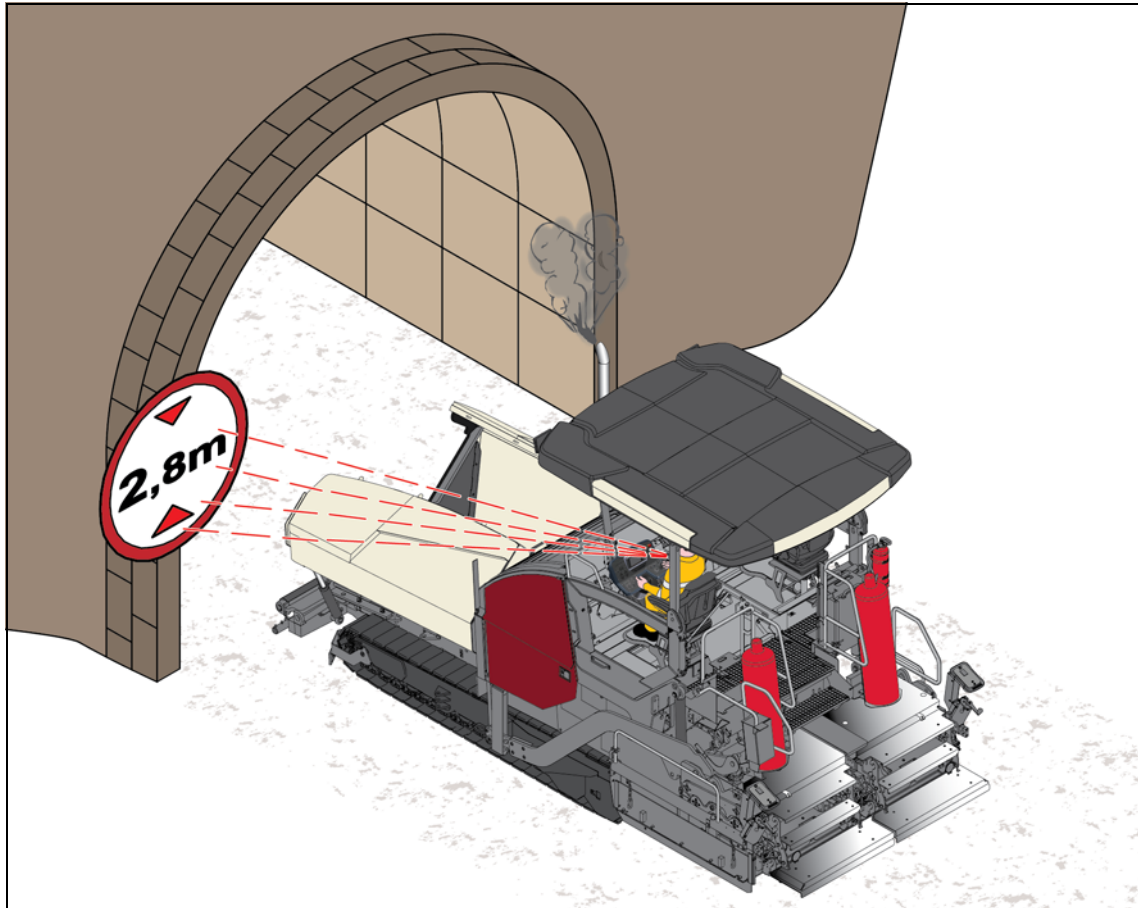
If the machine is located outside fenced off construction sites (e.g. when being relocated, trans-shipped or parked), you are a normal road user and are therefore obliged to carry out all specified lock-down and securing measures.

Before every road journey, always clean the wheels or track drives.



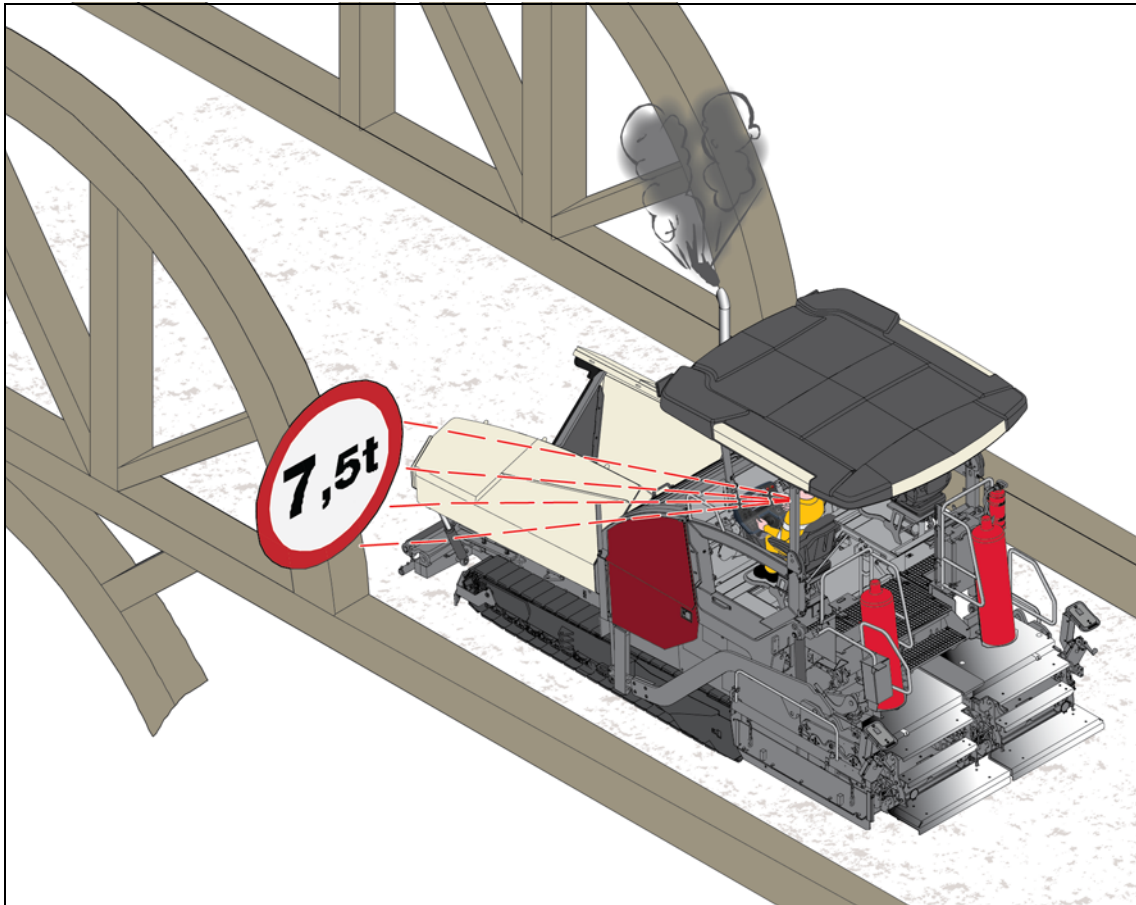
Check the permitted transport height/width (protective roof, steps, ladders etc.).

When negotiating bridges, tunnels, overhead wires, underpasses etc., always ensure that you maintain a safe distance from them at all times.



Before driving over cellar roofs, hump-back structures, bridges etc., always first check that they are capable of supporting the weight of the machine.

Agree on a set of clear signals and hand signals with your signalman and with all construction site personnel involved (e.g. truck drivers).



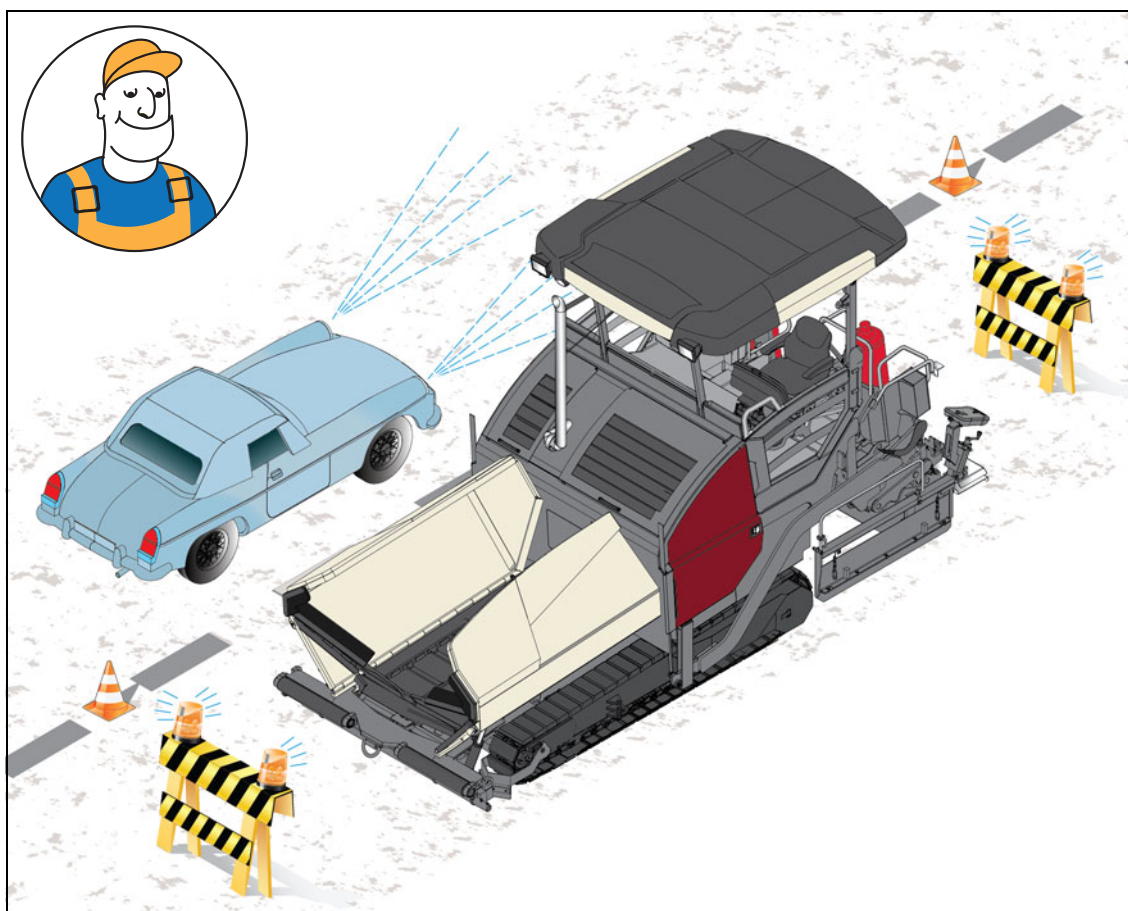
12.1 Parking

If the paver finisher obstructs traffic when parked, secure it by conspicuous means (warning signs, lamps, etc.)!

Allow the hopper, conveyor and auger to run until empty.

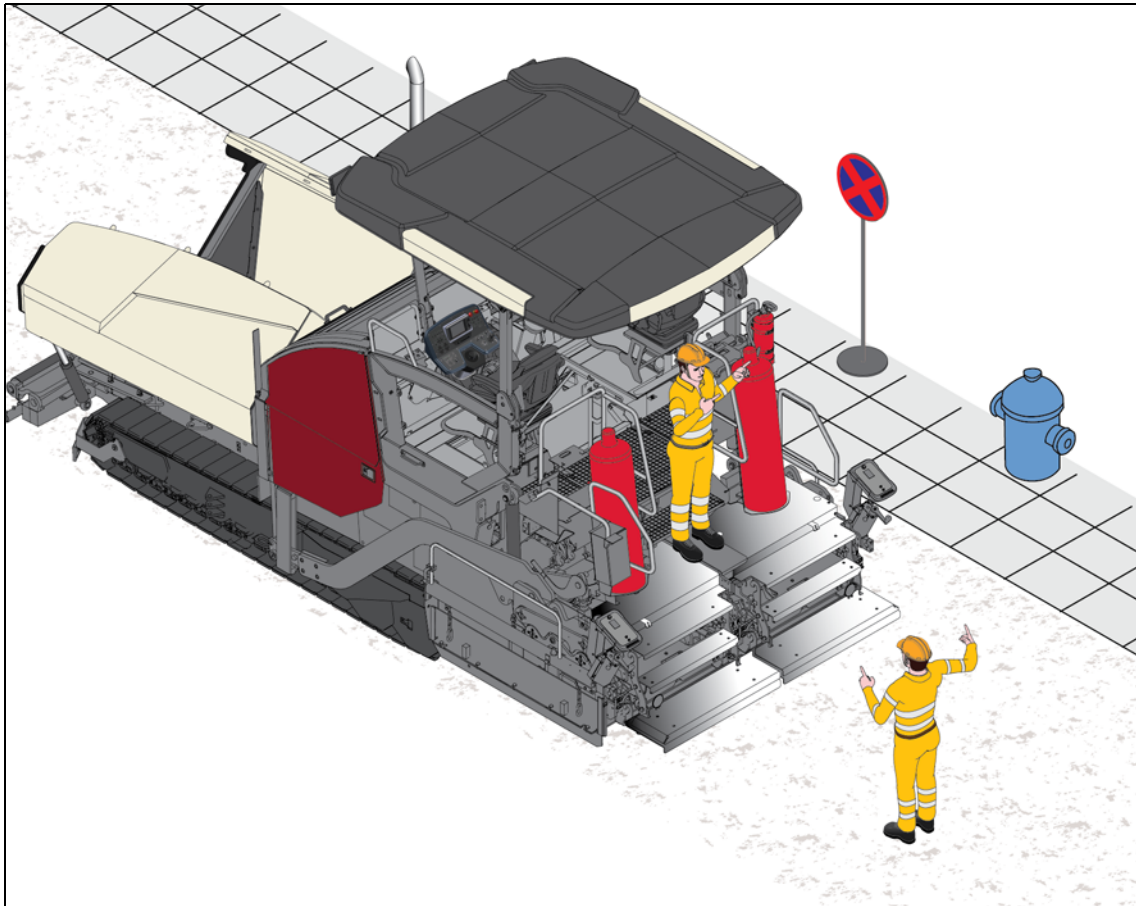
Never park the machine in front of steps/stairways, quayside ladders, hydrants or similar items.

The height-adjustable equipment components must be lowered and may need to be secured in this position.



Always park the machine in such a way that it does not obstruct other traffic and cannot give rise to dangerous situations, especially during the hours of darkness. Red reflective strips must always face the direction of oncoming traffic. Always park the vehicle on firm, level ground. Always use the parking brake / the emergency stop fixture.

Always use brake blocks when parking for extended periods. Never leave the machine without first making sure that it is unable to roll in any direction.



12.2 Switching off the engine

Always switch off the engine in accordance with the rules in the instruction manual. Never switch off the engine while the machine is still in motion.

Always remove the main battery isolator to prevent unauthorized persons from using the machine.

Only ever board or alight from the machine while it is at a complete standstill. Use the handles, fixtures and steps provided. Never jump off the machine. When boarding and alighting from the machine, you should always maintain 3-point body contact with the machine, i.e. only ever move one hand or foot at once.

G Installation, maintenance and charging of batteries

Always observe the national legal stipulations for the installation and operation of battery charging stations. Take special care to ensure that the batteries cannot be tipped over. The battery contains corrosive and toxic sulphuric acid.



Wear protective goggles and avoid getting any sulphuric acid on skin, clothing or the machine. However, if you do come into direct accidental contact with sulphuric acid, immediately remove all affected items of clothing. Rinse your skin immediately for a 15-minute period under running water. If you get battery acid in your eyes, flush your eyes with water for at least 15 minutes, then go straight to the doctor. If possible, en route to the doctor, keep applying water to the injured eye with the help of a sponge or facecloth.

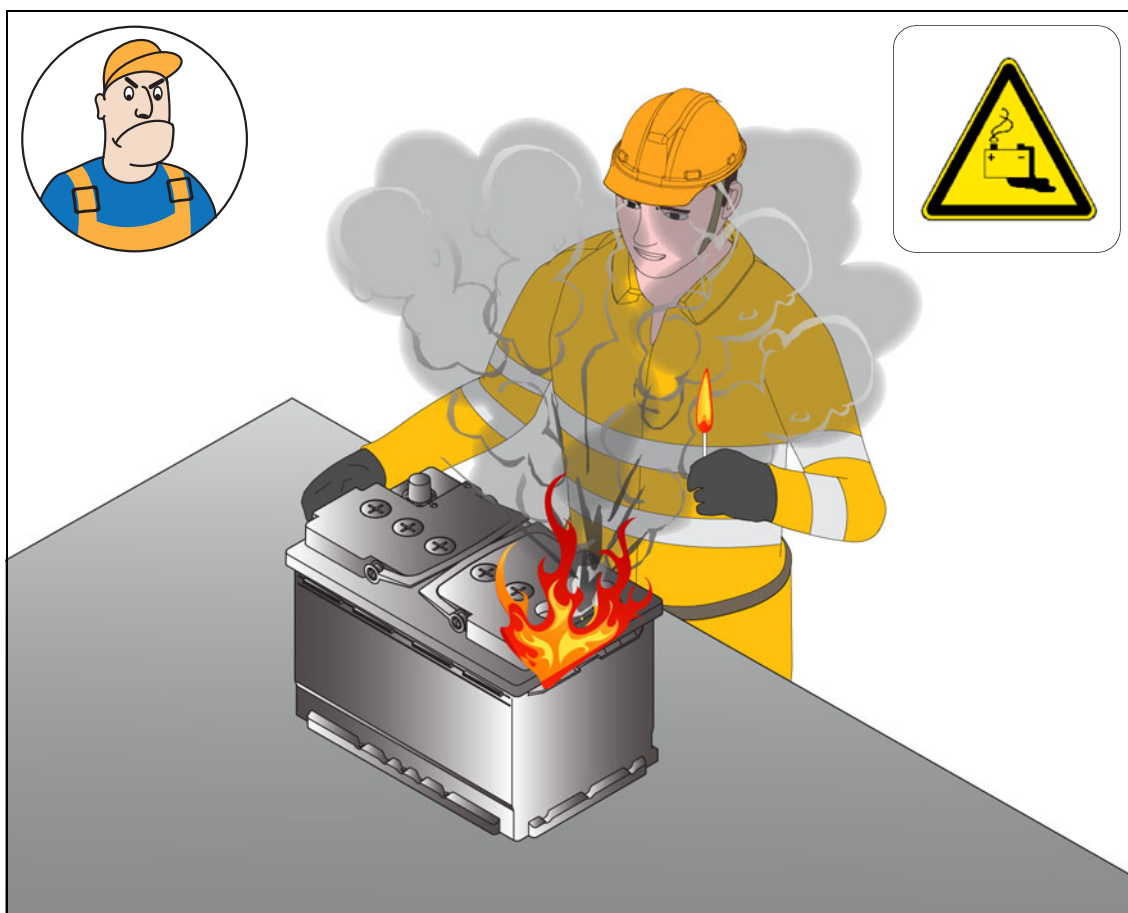


1 Maintenance personnel

Only specially trained personnel may charge, maintain and exchange batteries. When doing so, they must follow the instructions provided by the manufacturers of the battery and the battery charger and by DYNAPAC. The instructions for handling the battery and the operating instructions for the battery charger must also be observed.

2 Fire protection measures

Do not smoke or use naked flames when handling batteries. There must be no inflammable substances or spark-generating materials within a distance of 2 m of the battery to be charged and the battery charger. The location must be well ventilated and fire fighting equipment must be kept ready.



3 Rendering the paver finisher safe

If work is to be carried out on the battery, the paver finisher must be rendered safe as described in the operating instructions. The paver finisher may only be started up again after all hoods and connections have been reverted to the normal state required for operation.

4 Seating of the battery

The battery must be installed in the paver finisher according to the instructions provided by DYNAPAC to avoid any hazards resulting from unexpected movements. Check and, if necessary, replace the battery seat every time the battery has been exchanged.

5 Damaged cables

When removing and installing batteries, make sure the battery cables are not damaged. Before starting the charging process, check the battery cable and the charger cable for damage and replace them if necessary.

6 Maintenance of the battery

The battery cell covers must be kept dry and clean. Spilled battery acid must be neutralized immediately. Terminals and cable shoes must be clean, lightly greased with terminal grease and securely tightened.

7 Charging the battery

During the charging process, the tops of the battery cells must be exposed and the screw caps must be removed to ensure adequate ventilation and thus prevent explosive gases from collecting. Do not place any metal objects on the battery.

H Refuelling paver finishers

1 Approved fuels

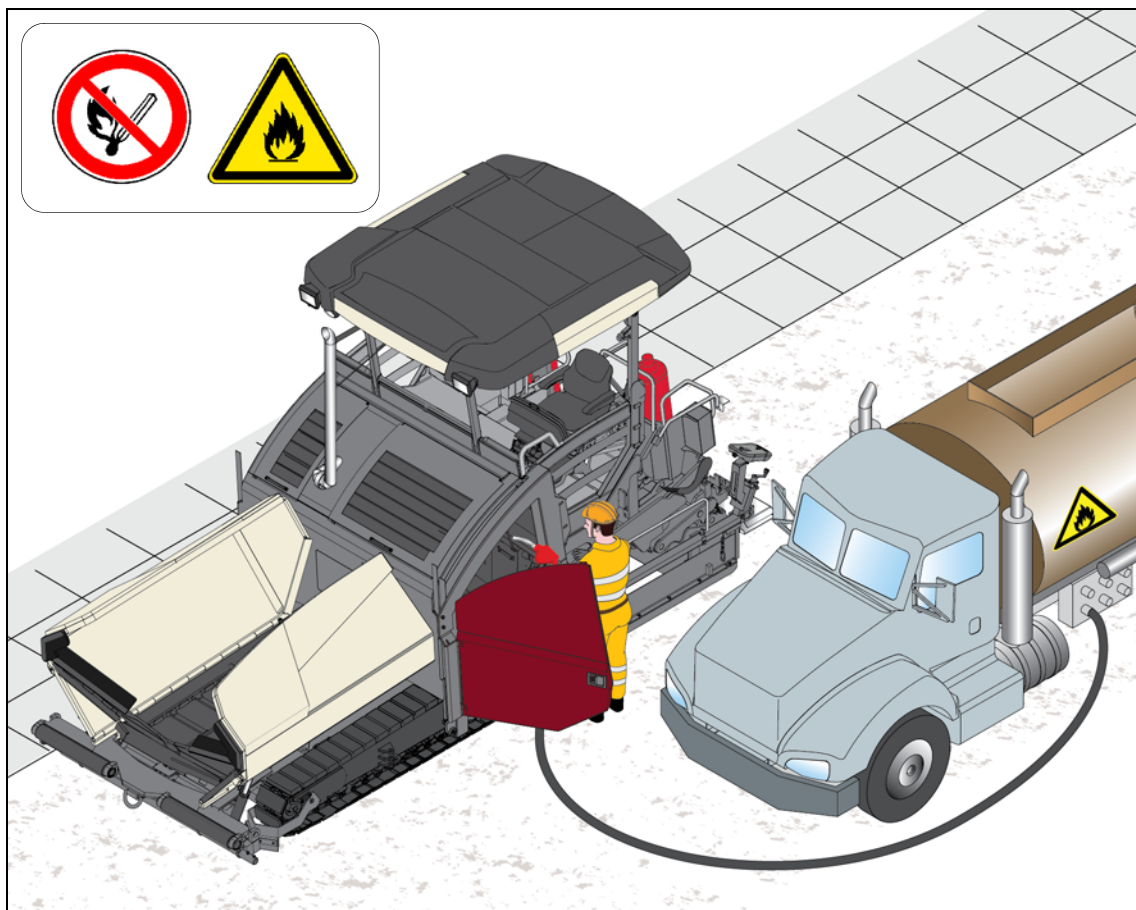
Only the fuels specified in the operating instructions may be used.

2 Refuelling

The national regulations for storing and handling liquid fuels must be observed.



Do not smoke or use naked flames when refuelling the paver finisher or checking the filling level of the tank. Make sure that no fuel is spilt and that no fuel drops onto hot parts.



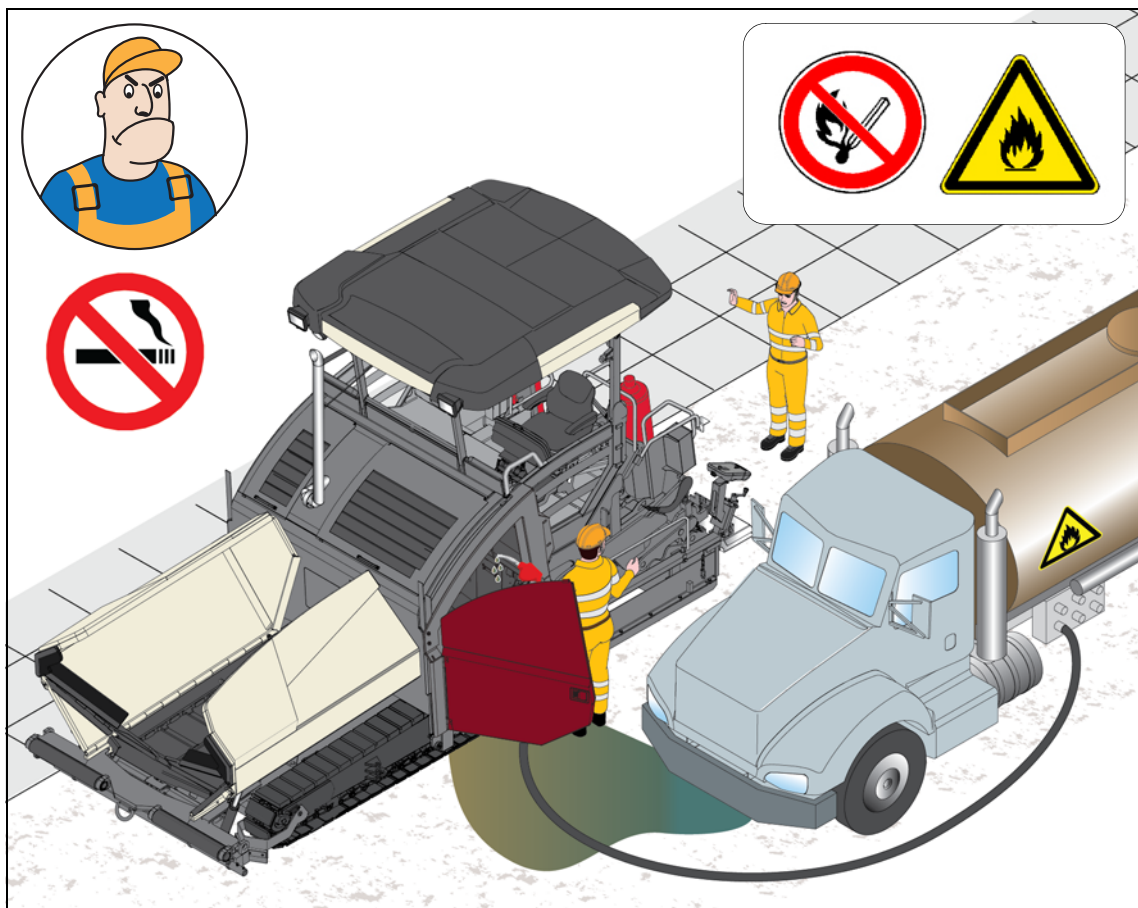
Safety measures when filling the fuel tank:

- Switch off engine
- Do not smoke
- No naked flame near the machine
- Do not fill the fuel tank in enclosed spaces.
- Ground/earth the tank filler nozzle on the tank to prevent sparks from forming
- Always check that you are filling the correct tank with the correct fluid
- Always allow spilled fuel to dry before starting the engine
- Check that the tank cover is securely screwed down to prevent fuel from escaping in the event of an accident.

Ensure that no fuel comes into contact with hot components.



Park the machine on the kind of surface which enables you to spot if any fuel is escaping and, if it is, to deal with the problem effectively.



J Guidelines for handling the gas heater system

There is a danger of fire and explosions when handling gas bottles and working on the gas heater system. Do not smoke! Do not use naked flames!



1 Transportation

Before transporting full or empty gas bottles, make sure the protective caps are fitted to protect the bottles valves.

2 Securing the gas bottles

Use the supplied strap retainers to secure the gas bottles on the paver finisher so that they cannot turn, tip over or fall down. Do not operate the gas heater system without the hose break safety devices and the pressure reducing valves.



3 Cleaning

Keep the gas bottle valves, the hoses and the hose connections free from oil and grease. Immediately remove any dirt. Keep the vent holes and slots on the screed free.



4 Prior to operation

Before putting the heater into operation, check the entire heater area for leaking gas lines. Immediately replace damaged hoses.

5 Breaks

Immediately switch off the gas heater when taking a break or terminating work:

- Switch off the On/Off switch in the switch box.
- Close the main shut-off valve, the two closing valves on the dual-branch pipe and the two bottle valves.

6 Maintenance

Heed the maintenance intervals for the gas heater system.

Check the flame control (option) for proper functioning.

Have the operational safety checked by an expert once a year. The responsibility for this check lies with the user of the machine.

K Guidelines for handling the hydraulic system

1 Connecting or disconnecting hydraulic hoses

When connecting or disconnecting the hydraulic hoses or working on the hydraulic system, hot hydraulic oil can spurt out at high pressure. Starting the engine and the hydraulic drives (traction drive, conveyor, auger, screed, lifting devices) can endanger persons. Switch off the motor and depressurise the hydraulic system! Protect the eyes!

2 Work on the hydraulic system

Only carry out such work with the finisher motor at a standstill unless the instructions state the opposite!

Make sure the paver finisher is secured against being put into operation and mechanically secure lifted machine parts (hopper halves or screed) from lowering (see the operating instructions).

Do not bend hydraulic lines or hit against them! Do not reuse any damaged pipes or hoses!

Carefully check all lines for leaks! All screwed connections as well as other connections must be properly tightened!



Regular maintenance of the hydraulic system is important. These machines operate with high oil pressure. Minor damage or a crack in a hose or connection can have devastating consequences. Bear in mind that hydraulic hoses are made of rubber, which means that they age over time and that this can cause cracks to start forming. If in the least doubt about the durability of hoses, or if ever you detect damaged caused by mechanical wear, replace them using genuine Dynapac hoses. Never store hoses for excessively long periods: hoses need to be used while still relatively new.

Bear in mind that the hydraulic system may be pressurized even once the machine has been shut down and parked. Only ever work on completely depressurized systems.

During any inspection of the hydraulic system, you must wear protective goggles and gloves at all times. You are advised to use a piece of cardboard to track down any signs of leakage – never reach in with your hand to feel for leaks. Seek immediate medical attention if ever hydraulic oil permeates your skin, or if you get oil in the eyes. Exercise great caution when topping up hydraulic oil from the moment the tank filler cap is removed. Smoking and naked flame are prohibited from the area when topping up hydraulic oil. Always allow time for escaped oil to dry off. Check that the pressure relief valves are set correctly. Excessive pressure can give rise to hose ruptures and damage. If the pressure is too low, the machine may prove more difficult to manoeuvre.

3 Extension parts, modification parts and spare parts

Always install extension parts, modification parts and spare parts in the proper manner. In case of doubt, contact DYNAPAC!

L Maintenance and repairs

1 Training and qualification requirements for personnel to be charged with maintenance and repairs

Maintenance work may only be carried out by qualified, authorized personnel. The yearly inspection must be carried out by an expert. This expert must assess the condition of the paver finisher and its extensions from a standpoint purely concerned with safety aspects, uninfluenced by any company-related or economic aspects. This person must be adequately trained and experienced to be able to assess the condition of a paver finisher and the effectiveness of the safety installations on the basis of the technical rules and on the principles governing the inspection of paver finishers.

2 Kind and frequency

2.1 Maintenance and inspection intervals

The intervals must be chosen according to the specifications provided by DYNAPAC. See the operating instructions.



2.2 Regular inspections

The yearly inspection carried out by an expert must comprise a check of the technical condition of the components and installations as well as a check of the safety devices for completeness and effectiveness.

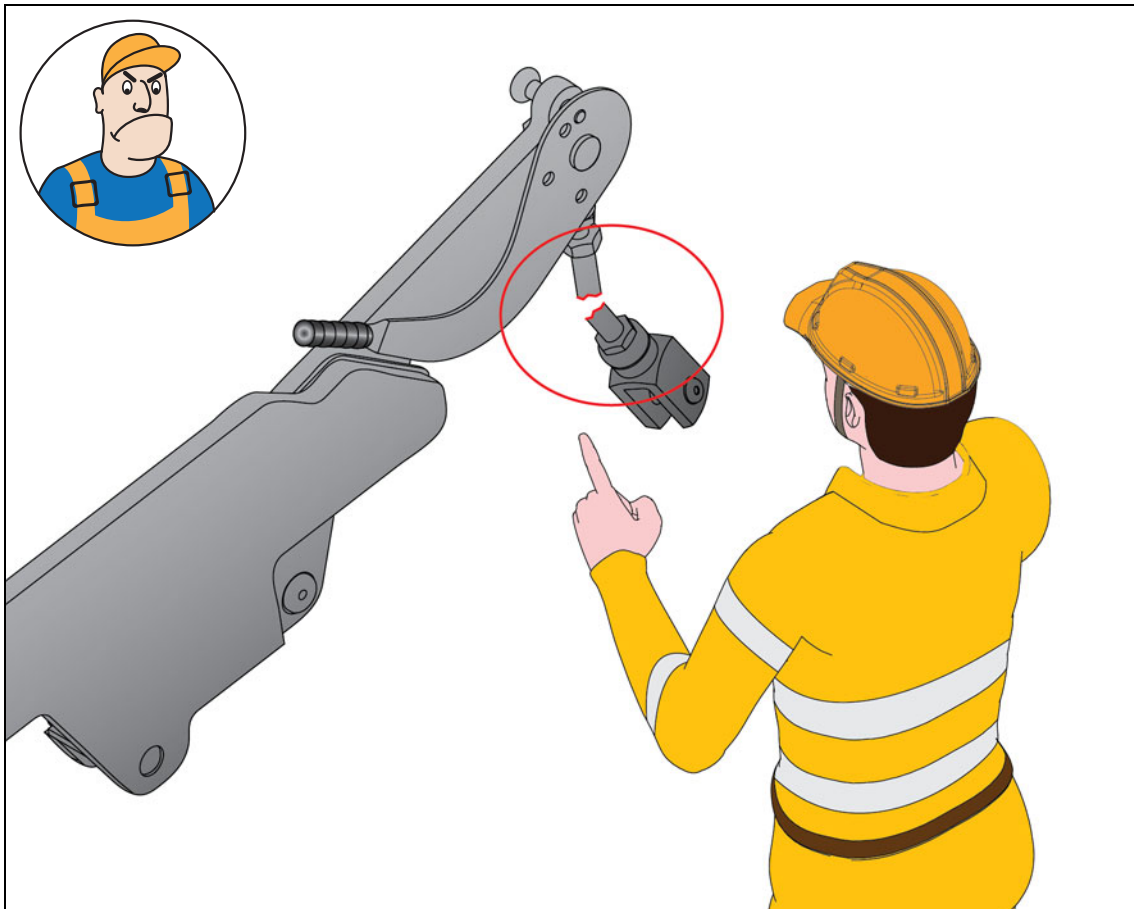
Apart from this, the paver finisher must be thoroughly checked for damage possibly caused by incorrect use. The inspection results must be recorded in an inspection report which must be kept available for a period spanning at least the next two inspection intervals.

The user has to ensure that all defects are eliminated without delay.

To prevent the risk of fire from breaking out, immediately repair or replace any damaged oil and plastic lines as well as any leaking hoses and pipes. Inspect the electrical wiring and plug connections for chafing points. Take immediate remedial action if you find any defective areas.



Check that all arrester cables, bolts and other retaining elements are properly mounted and in perfect condition.



3 Quality and amount of operating materials required

Only the operating materials specified in the operating instructions may be used.

4 Spare parts

Only the spare parts specified by DYNAPAC may be used. Using spare parts that have not been released can lead to an increased risk of accidents due to insufficient quality or incorrect allocation. Anybody who uses spare parts other than those approved of will be fully liable for any resulting damage. Hydraulic hoses must be stored in such a manner that they cannot prematurely age.

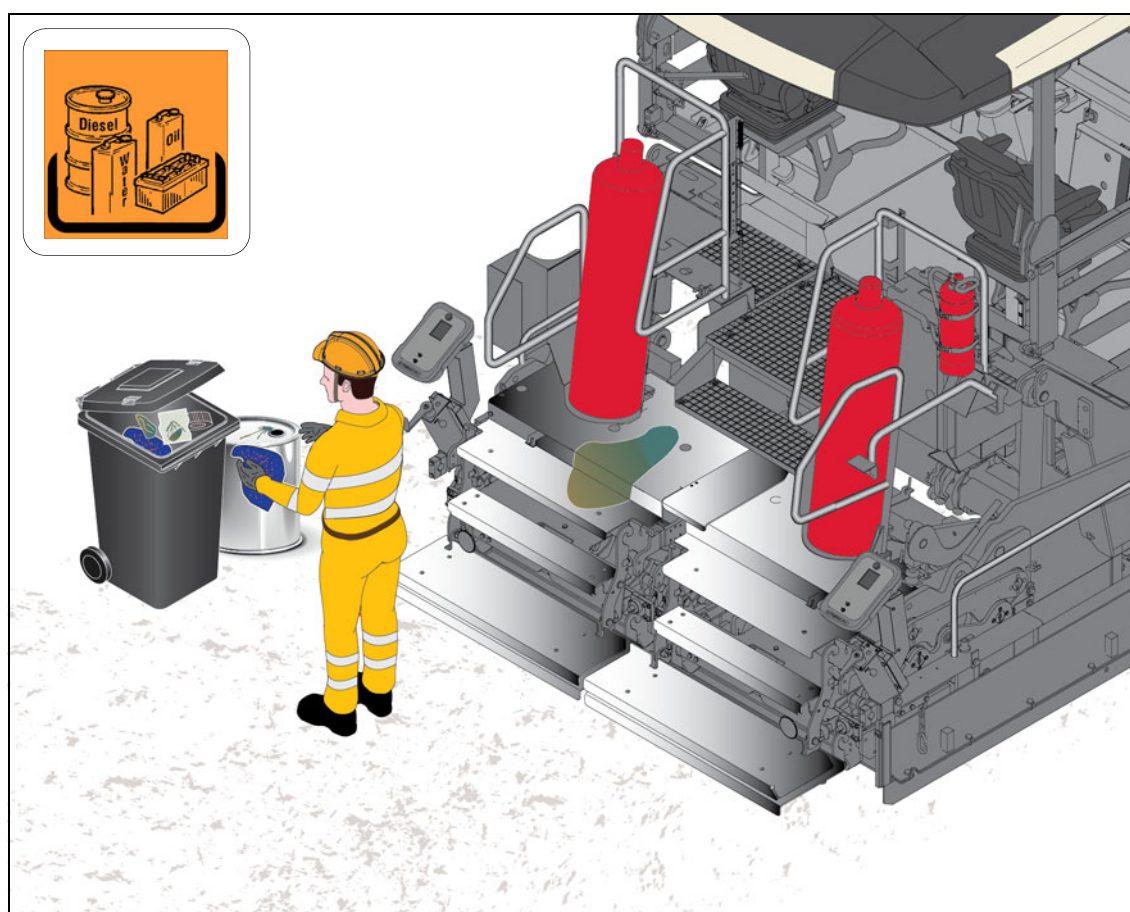
5 Maintenance work that does not require any special qualification

Simple maintenance work such as checking the oil level or checking the acid level in the battery may also be carried out by persons who have not received special training. This kind of work does not require any qualification. See the operating instructions for more details.

6 Disposal of greases, oils, batteries, lubricants and diesel fuel

The substances left over after repairs, maintenance and cleaning must be properly collected and disposed of according to the national regulations. Repair work, maintenance and cleaning may only be carried out at the locations provided for this purpose.

These substances are extremely harmful to the environment; therefore, they must be prevented from penetrating the soil or entering drains. These substances and any items that have come into contact with these substances (containers, cleaning rags, etc.) must be disposed of by the appropriate collecting stations for used oil and hazardous waste. Information on the applicable regulations for disposal can be obtained from the local authorities.

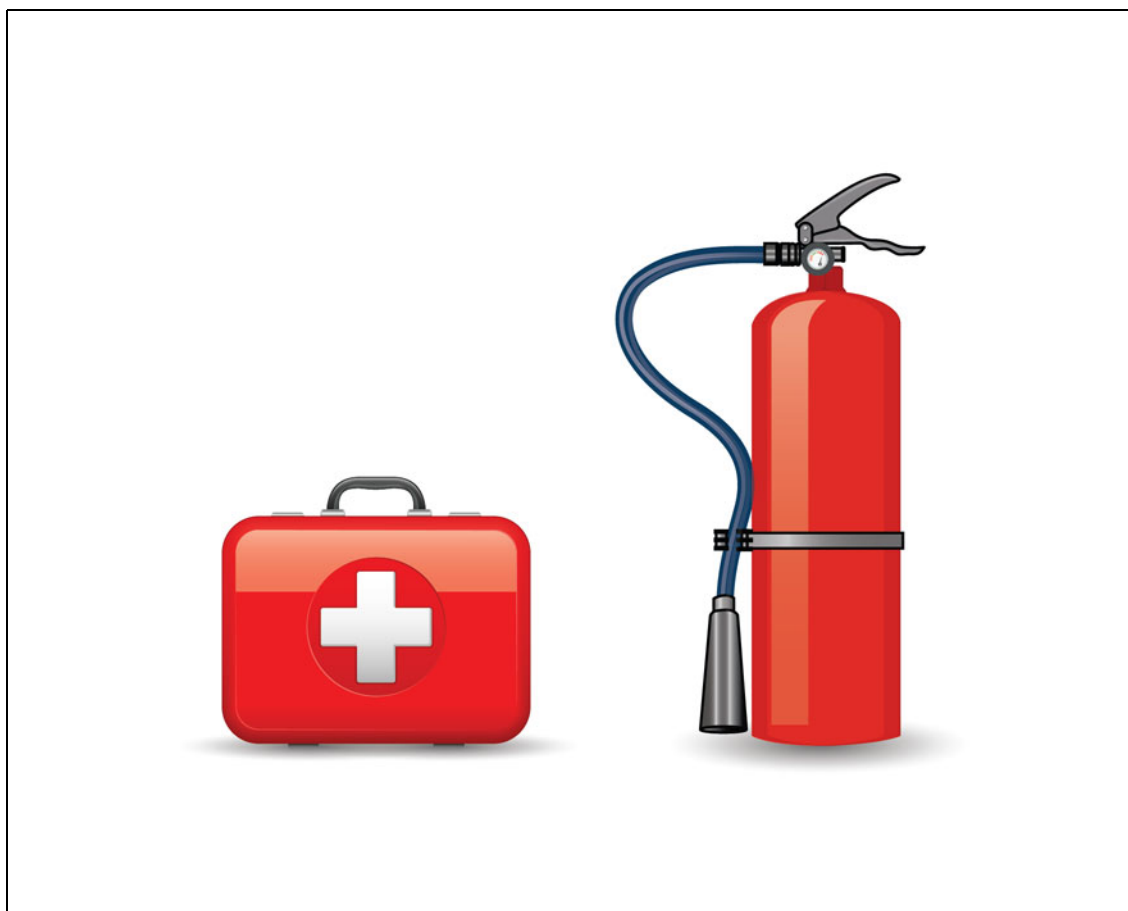


7 Special measures

7.1 Preparation of repair and maintenance work

Before starting work on the machine, find out the location of fire extinguishers, first aid materials and the telephone for reporting emergencies.

Use your common sense to help prevent incidents and accidents. If an accident occurs despite these precautions, avoid any urge to panic and instead act swiftly and effectively – first of all to save human life and secondly to prevent damage to equipment.



For your own protection, always wear:

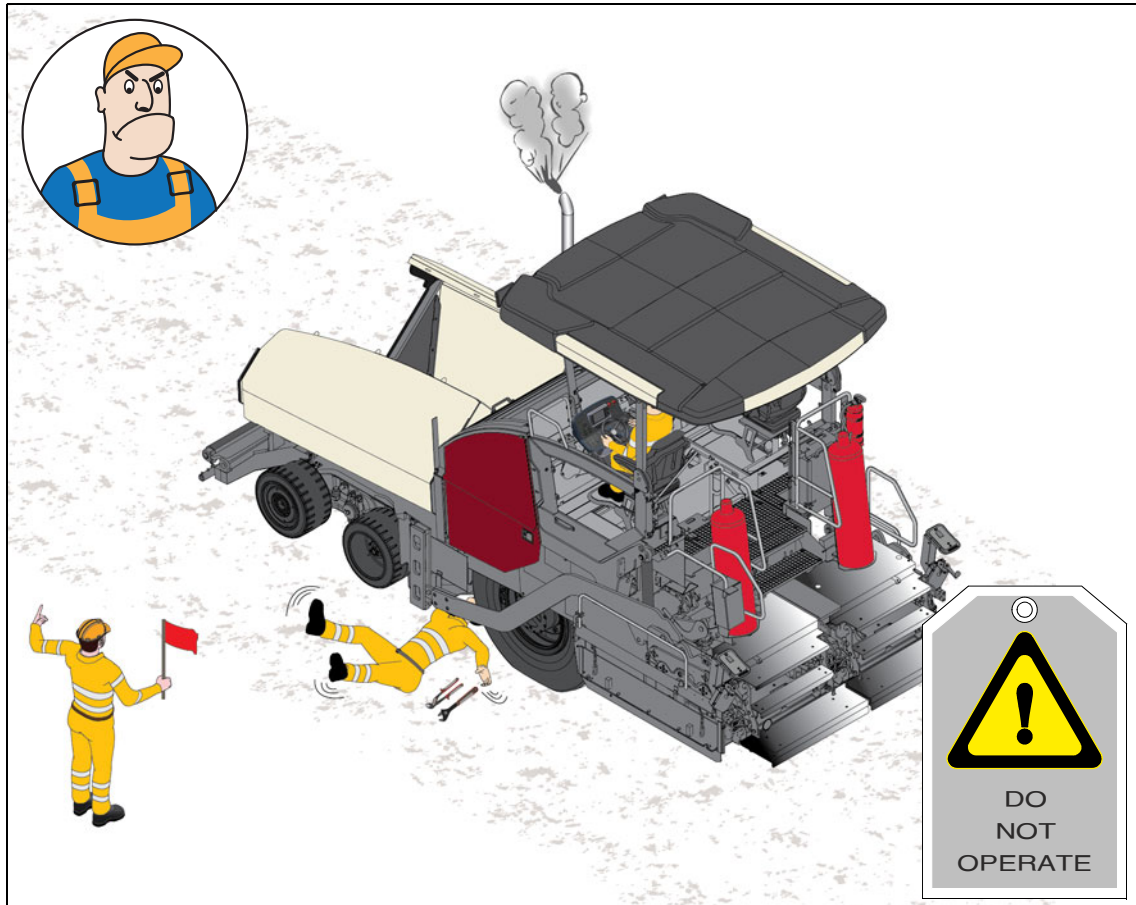
- Helmet
- Protective working gear with nip protection
- Ear defenders
- Work gloves

When required, wear protective goggles.

Smoking and any use of naked flame or hot objects are prohibited at all times in the working environment. During welding work, preparations for repair and maintenance.



Always fit a label to the machine whenever repair work is in progress. Shut down the battery using the battery isolator switch and keep the key safely in your pocket. Ensure that the machine is clean.





To prevent accidents during maintenance and repair work, take all necessary safety precautions, e.g.:

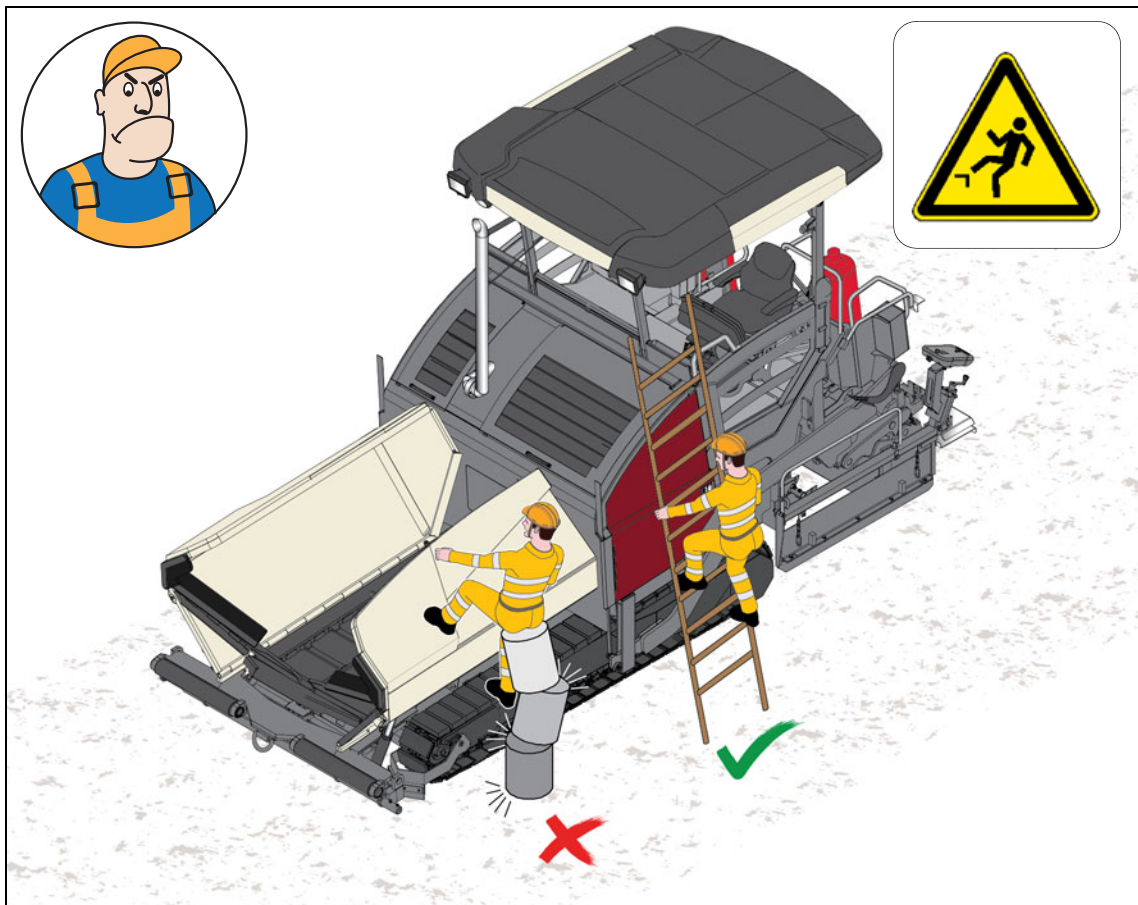
- If necessary, disconnect the battery to prevent the engine from starting up accidentally.
- If any maintenance or repair work requires the engine to be kept running, always work in the company of a second trained colleague who can stop the machine in any emergency situation.
- Secure the wheels or tracks with chocks to prevent accidental movement in both directions.
- Open up both halves of the hopper.
- In addition, secure the screed and, if necessary, the auger.
- Never carry out work on hopper, conveyor or auger while the machine is running. Danger to life.



- During assembly work above body height, always use the requisite lifting equipment and working platforms.

Never use machine components as climbing aids.

If maintenance work is required at greater heights, always wear safety harnesses and associated equipment.



Do not work on the machine while the engine is running. It is important to keep the engine cover closed at all times while the engine is running. When starting up the machine inside a building, connect the exhaust to a ventilation system to prevent exhaust gases from building up in a confined space.



- If ever any safety equipment needs to be dismantled to allow maintenance or rigging work to be carried out, always ensure that it is reattached or reinstalled following completion of that work.

Fit the correct number of warning notices to the machine, and ensure that they are all clearly legible.



7.2 Raising and lowering



If the machine needs to be lifted for maintenance or repair work, ensure that it is properly supported.

Only ever use appropriate sizes of lifting and load-bearing equipment.

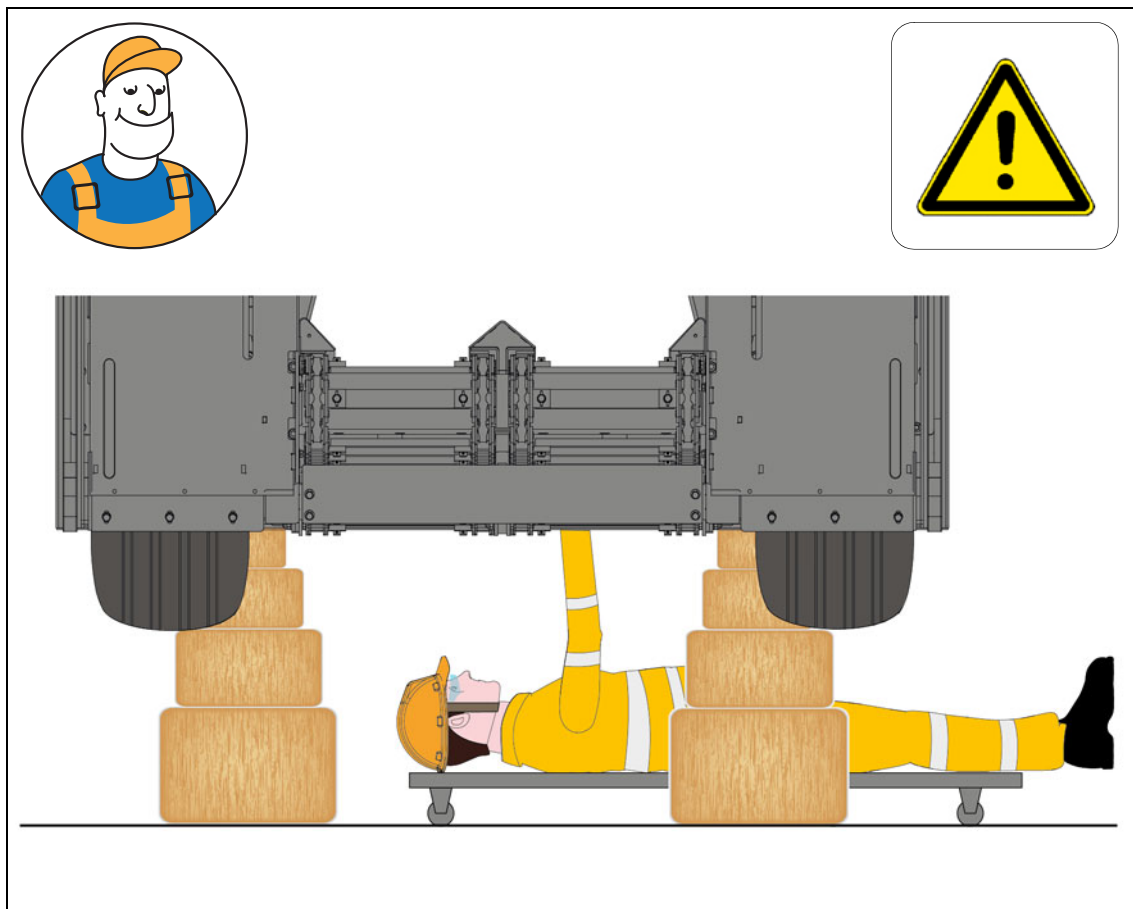
Always locate lifting equipment on level surfaces which are capable of bearing the weight of the machine.



Only ever fit lifting fixtures to the approved lifting points on the machine.



Always use a reliable vehicle jack when lifting the machine. Never leave the vehicle standing in a raised position if supported only on the vehicle jack.



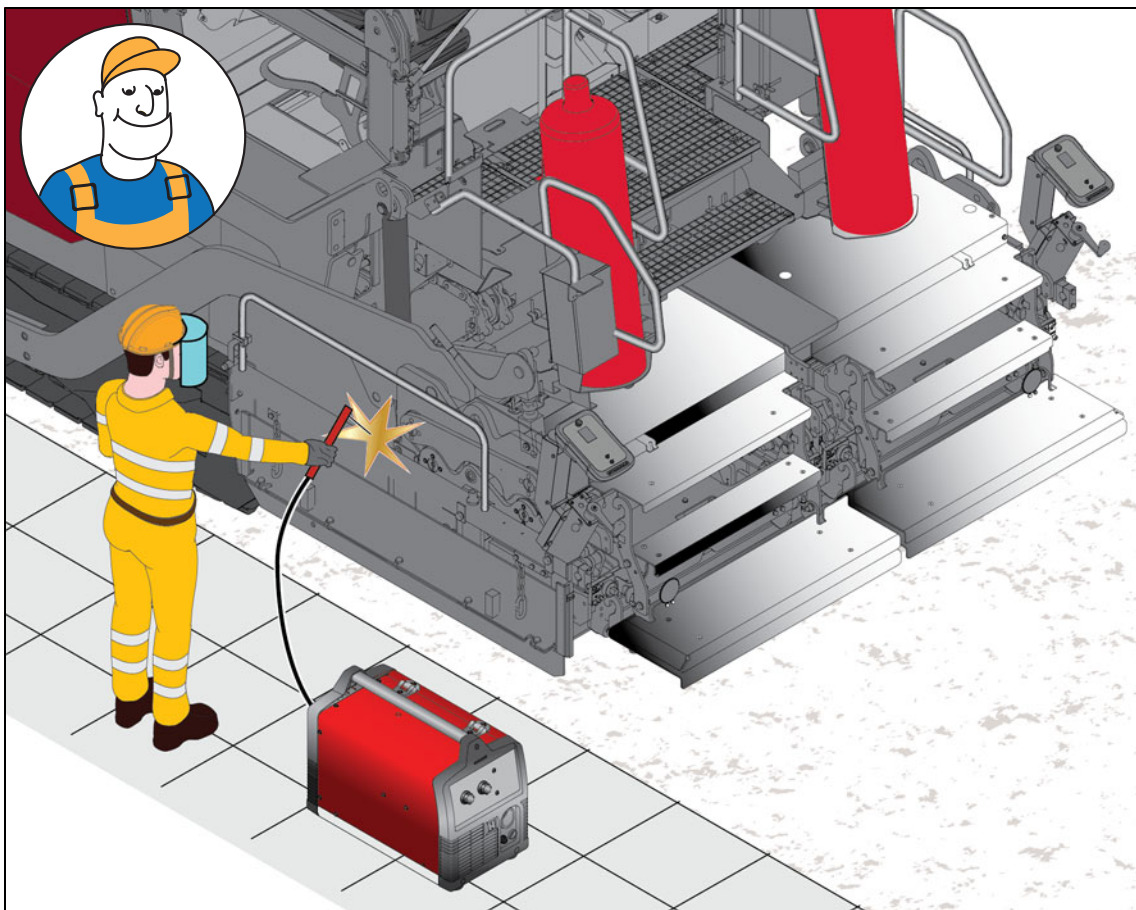
7.3 Welding work

If welding work or other work involving great heat or naked flame needs to be carried out, drain and ventilate the tanks thoroughly. During welding work on the tanks, fill them with water. Always ensure that a fire extinguisher is located close to the workplace. During electric arc welding, always check that the battery connection is isolated, i.e. switched off.

Never weld near plastic or rubber materials because these release toxic gases when heated.

When working on the electrical system, always ensure that the battery connector is isolated, i.e. switched off.

Never use petroleum/gasoline for cleaning purposes. Store materials which constitute either a fire hazard or a health hazard in well sealed containers whenever these materials are not required. Wear a breathing mask whenever you are using materials which constitute a health hazard.



7.4 Working on the diesel engine

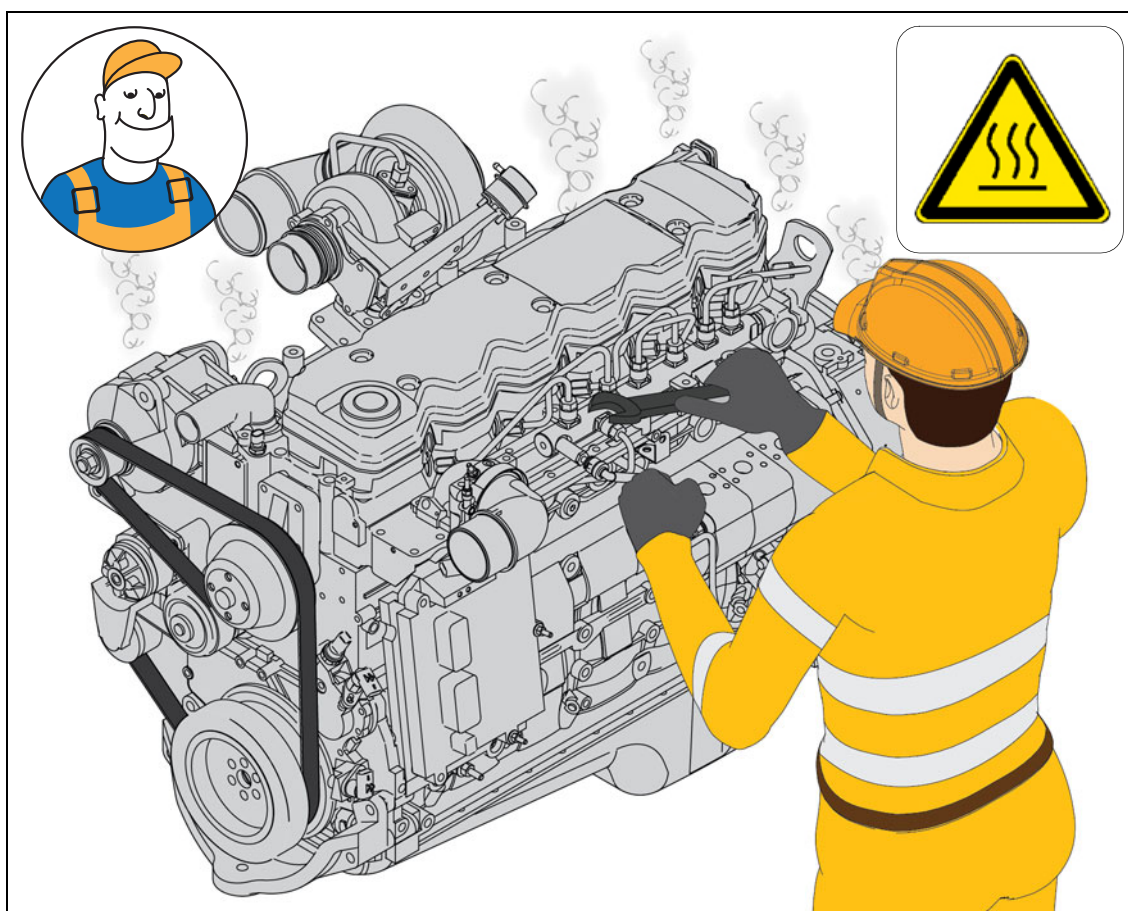
Exercise great caution whenever the engine is running. Whenever possible, always switch off the engine before starting any work on it. On completion of work, reinstall any protective equipment or guards you may have removed. When working on the engine, never wear loose clothing which might snag. Always take note of the warning notices contained in the engine manufacturer's manuals. Allow the engine to cool down before starting work on it.



Always wear protective clothing if the engine is hot.

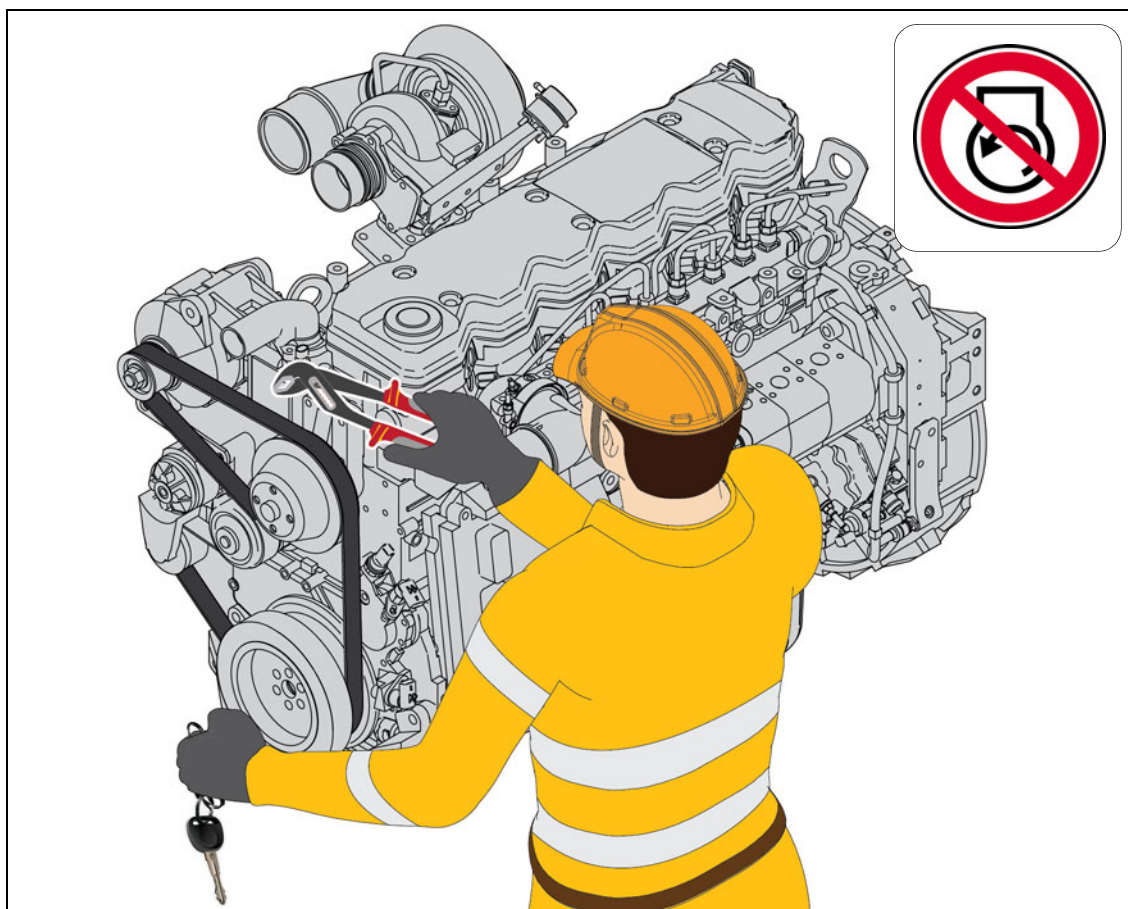


When draining off hot oil, always wear protective clothing.





The vee-belts must only ever be inspected or tensioned while the engine/drive system is switched off.



7.5 Working on the cooling system

Switch off the engine before examining the system. If possible, allow the engine to cool down. If the engine is still hot, exercise great caution when opening the cover on the coolant tank. Wear robust gloves, clothing and protective goggles. Do not remove the cover from the coolant system until the system is fully depressurized. Exercise caution when filling a warm container with cold fluids.



7.6 Cleaning

Inflammable liquids must not be used for cleaning the paver finisher and its extensions. All safety measures required to prevent sparking by short-circuits must be taken (e.g. disconnecting the battery).

If the paver finisher is to be cleaned using hot water, all endangered components - especially the electrical components - must be carefully covered.

Electrical and electronic components must be cleaned using weak compressed air and a metal-free brush.



For cleaning work, never use readily flammable substances such as petroleum/gasoline and never use aggressive cleaning agents.

When working with greases, oils and other chemical agents, pay due attention to the safety regulations applicable to this product.



7.7 Work on the electrical equipment

Work on the electrical equipment of the paver finisher may only be carried out after the paver finisher has been deenergized. Before starting work on electrical equipment or the batteries, the main switch must be switched off and the batteries must be disconnected.



Improper work on the electrical equipment can cause short-circuits, explosion of the batteries or damage to the on-board electronics.

Function checks, inspections and adjustments on live parts may only be carried out by trained persons who have been charged with these tasks. When carrying out this work, the appropriate precautions must be taken. Rings, metal bracelets, etc. must be removed before starting work on electrical components.

To prevent any damage to electrical systems comprising electronic components, these systems must be removed from the paver finisher or disconnected before any welding is undertaken.

! ATTENTION !

Components bearing this symbol may only be opened, check and replaced by specialist electricians.



Monitoring and repair work on electrical systems with medium levels of voltage, e.g. the screed heating system, must only ever be carried out by specialist electricians or persons instructed in electrical engineering work and only using appropriate test equipment.

Always comply with relevant technical electrical protection

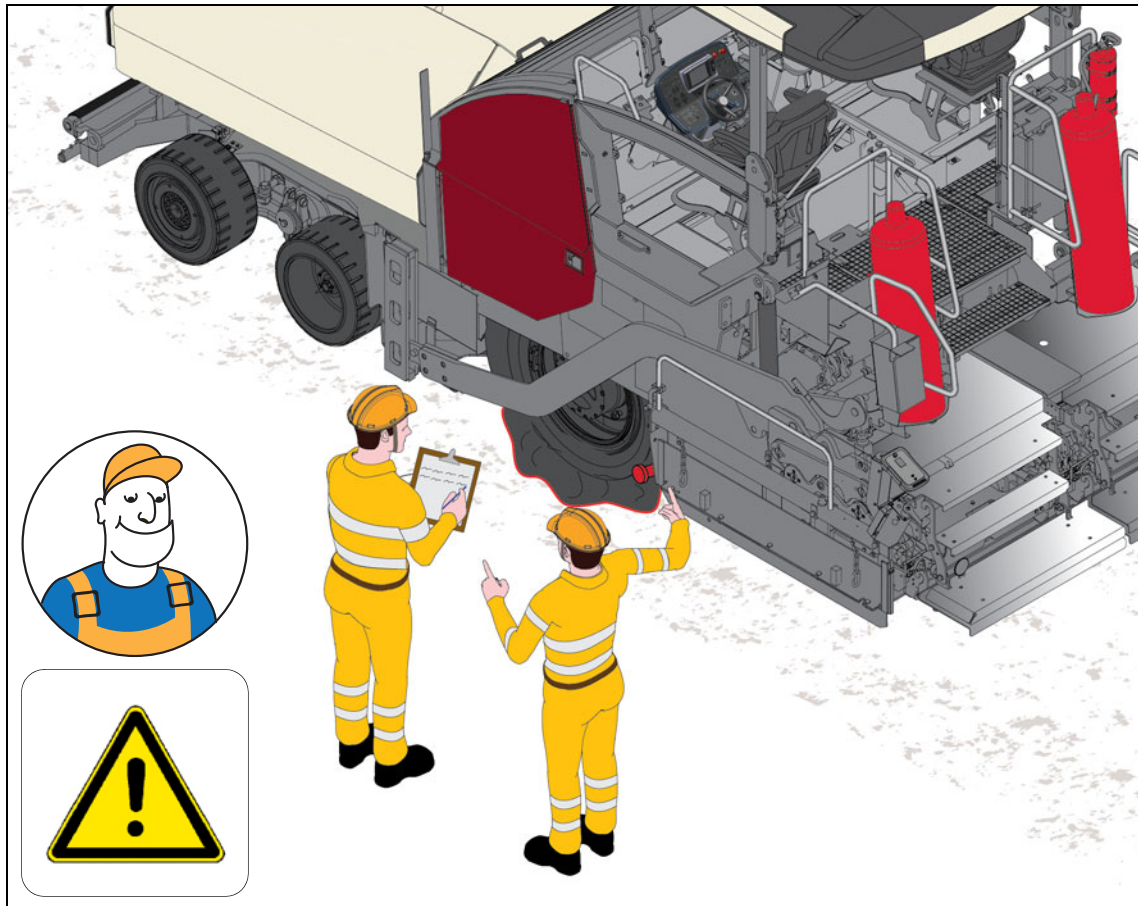
precautions. Danger to life as a result of accidents involving medium voltage levels.



7.8 Tyres and drive units



On wheel-driven paver finishers, check the tyres on a daily basis for signs of damage, cracks or blister formation. Never work with the tyre pressure too high or too low. Check that all wheel nuts or bolts are fitted, and that they are correctly tightened.





A tyre burst incident can cause serious or even fatal injury. Always maintain the correct tyre pressure. Never run the machine with tyres above their specified tyre pressure level.



A slight increase in tyre pressure during operation is normal and there is no need to relieve pressure. If necessary, allow overheated tyres to cool.



On a daily basis, check track-driven paver finishers for correct track tension and signs of wear on the bottom plates.





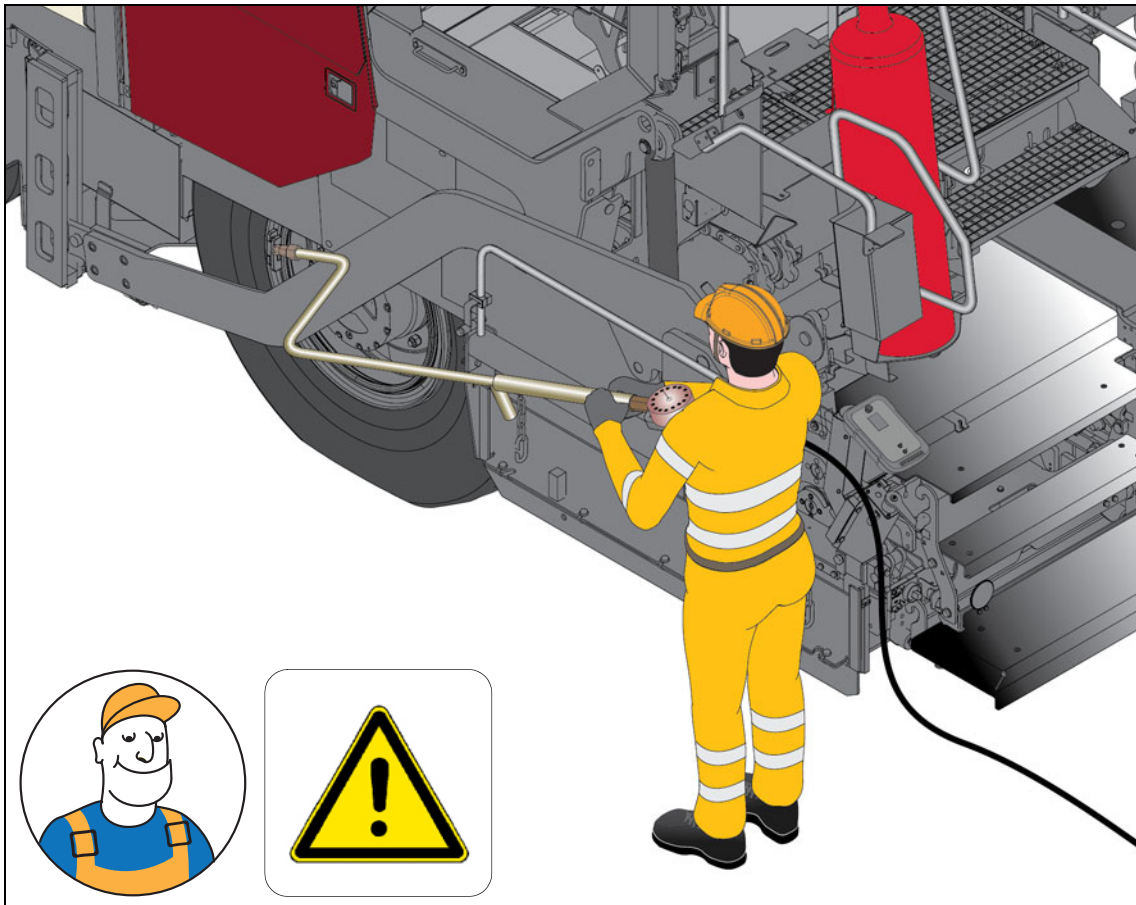
Only ever set the tyre pressure using a self-regulating filler connection. Never stand directly in front of the tyres when filling them with air.



Never carry out welding work in the immediate vicinity of the tyres. Before carrying out repairs on a wheel rim, first depressurize and remove the tyre.



Bear in mind that tyres may be filled with water.



7.9 Safety installations

After maintenance work and repairs have been completed, all safety installations must be reinstalled and checked for proper functioning.

7.10 Settings

When repairing or replacing hydraulic or electrical components, the device-specific settings must be retained.



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