

Safety - General instructions

(Also read the safety manual)



- The operator must be familiar with the contents of the **OPERATION** section before starting the roller.
- Ensure that all instructions in the **MAINTENANCE** section are followed.
- Only the operator is allowed to be on the roller. Remain seated at all times when operating the roller.
- Never use the roller if it is in need of adjustment or repair.
- Only ascend and descend the roller when it is stationary. Use the intended footsteps, grips and rails. Always use the three-point grip (both feet and one hand, or one foot and both hands) when ascending or descending the machine. Never jump down from the machine.
- Dynapac always recommends mounted ROPS (Roll Over Protective Structure), or a ROPS-approved cab and seat belt usage.
- Drive slowly in sharp bends.
- Avoid driving across slopes. Drive straight up or straight down the slope.
- Never operate with roller outside the edge, if the substrate does not have full bearing strength or is close to a slope. Avoid operating close to edges and ditches and the like as well as on poor ground conditions that jeopardizes the bearing strength and capacity to support the roller.
- Make sure that there are no obstacles in the direction of travel, on the ground, in front of or behind the roller, or overhead.
- Drive particularly carefully on uneven ground.
- Keep the roller clean. Clean any dirt or grease that accumulates on the operator platform immediately. Keep all signs and decals clean and legible.
- Safety measures before refueling:
 - Stop the engine
 - Do not smoke.
 - No naked flames in the vicinity of the roller.
 - Earth the filling equipment nozzle to the tank opening to avoid sparks.
- Before repairs or service:
 - Chock the drums/wheels.
 - Lock the articulation if necessary.
 - Place blocks under overhanging equipment, such as strike-off blade and chip spreader.
- Hearing protection is recommended if the noise level exceeds 80 dB(A). The noise level can vary depending on the equipment on the machine and the surface the machine is being used on.

- **Do not make any changes or modifications to the roller that could affect safety. Changes are only to be made after written approval has been given by Dynapac.**
- **Avoid using the roller before the hydraulic fluid has reached its normal working temperature. Braking distances can be longer than normal when the fluid is cold. See instructions in the STOP section.**
- **For your own protection always wear:**
 - **helmet**
 - **working boots with steel toecaps**
 - **ear protectors**
 - **reflecting clothing/high visibility jacket**
 - **working gloves**
- **If the machine seems to be responding abnormally during travel, stop and check it.**

Safety - when operating



Prevent persons from entering or remaining in the danger area, i.e. a distance of at least 7 m (23 ft) in all directions from operating machines. The operator may allow a person to remain in the risk zone, however he/she must be attentive and operate the machine only when the person is fully visible or has given a clear indication of where he or she is.



Avoid driving across a slope. Drive straight up and down sloping ground.

Work driving

Avoid operating close to edges and ditches and the like as well as on poor ground conditions that jeopardizes the bearing strength and capacity to support the roller. Pay attention to potential obstacles above the machine, such as overhead cables and the branches of trees etc.

Pay particular attention to the stability of the substrate when compacting close to edges and holes. Do not compact with a large overlap from the previous track in order to maintain roller stability. Consider other compaction methods such as remote-control or a walk-behind roller close to steep slopes or where the bearing strength of the substrate is unknown.



Dynapac always recommends mounted ROPS (Roll Over Protective Structure) and seat belt usage.

On machines with foldable ROPS, make sure that the ROPS is correctly mounted in the upright position during all operation.

Driving near edges



Never operate with roller outside the edge, if the substrate does not have full bearing strength or is close to a slope.



Keep in mind that the machine's center of gravity moves outwards when steering. For example, the center of gravity moves to the right when you steer to the left.

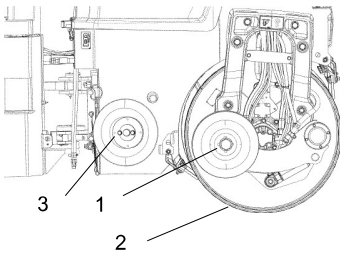





Fig. Edge cutter/compactor
1. Transport position
2. Operating position
3. Holder for cutter/compactor wheel.


Safety (Optional)

Edge cutter/compactor


 **The operator must make sure that nobody is in the area of operation while the machine is in use.**


 **The edge cutter consists of rotating components and there is a risk of being crushed.**


 The tool must be returned to the transport position (raised position) (1) every time it has been used.


 **If the edge cutter and its parts are dismantled, make sure that it is set in a relieved position and resting on the ground.**


Chip spreader

 **The machine must not be lifted or transported on another vehicle with chips in the chip spreader. The weight for the chip spreader is specified on the unit rating plate. This weight is not included in the machine weight specified on the lifting plate.**

 **The operator must make sure that nobody is in the area of operation while the machine is in use.**

 **The machine must NOT be lifted from a single-point lift if the chip spreader is fitted.**

 **Risk of crushing and pinch injuries. The chip spreader has rotating parts.**

 The chip spreader must be reset in transport mode after it has been used.

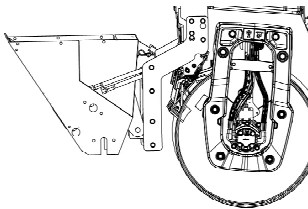


Fig. Chip spreader



Fitting the chip spreader changes the total length of the machine.

Special instructions

Standard lubricants and other recommended oils and fluids

Before leaving the factory, the systems and components are filled with the oils and fluids specified in the lubricant specification. These are suitable for ambient temperatures in the range -15°C to +40°C (5°F - 105°F).



The maximum ambient temperature for biological hydraulic fluid is +35°C (95°F).

Higher ambient temperatures, above +40°C (104°F)

For operation of the machine at higher ambient temperatures, however maximum +50°C (122°F), the following recommendations apply:

The diesel engine can be run at this temperature using normal oil. However, the following fluids must be used for other components:

Hydraulic system - mineral oil Shell Tellus S2V100 or similar.

Lower ambient temperature - Freeze risk

Make sure that the watering system is empty/drained of water (sprinkler, hoses, tank/s) or that anti-freeze has been added, to prevent the system freezing.

Close the ball valve and draw up the anti-freeze liquid through the filter. See the chapter dealing with Sprinkler system.

Temperatures

The temperature limits apply to standard versions of rollers.


Rollers equipped with additional equipment, such as noise suppression, may need to be more carefully monitored in the higher temperature ranges.

High pressure cleaning

Do not spray water directly onto electrical components or the instrument panels.

Place a plastic bag over the fuel filler cap and secure with a rubber band. This is to avoid high pressure water entering the vent hole in the filler cap. This could cause malfunctions, such as the blocking of filters.

Do not spray with high-pressure cleaner directly onto gaskets and bearing spacings in steering hitch and drum, and electronics.


 Never aim the water jet directly at the fuel tank cap, or into exhaust pipe. This is particularly important when using a high-pressure cleaner.

Fire fighting

If the machine catches fire, use an ABC-class powder fire extinguisher.

A BE-class carbon dioxide fire extinguisher can also be used.

Roll Over Protective Structure (ROPS)

 **Never carry out any welding or drilling in the Roll Over Protective Structure (ROPS).**


 **Never repair a damaged ROPS structure, it must be replaced with a new one.**

Battery handling

 **When removing batteries, always disconnect the negative cable first.**

 **When fitting batteries, always connect the positive cable first.**

 Dispose of old batteries in an environmentally friendly way. Batteries contain toxic lead.

 Do not use a quick-charger for charging the battery. This may shorten battery life.

Jump starting



Do not connect the negative cable to the negative terminal on the dead battery. A spark can ignite the oxy-hydrogen gas formed around the battery.



Check that the battery used for jump starting has the same voltage as the dead battery.

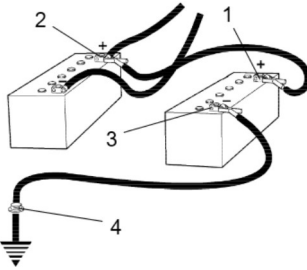


Fig. Jump starting

Turn the ignition and all power consuming equipment off. Switch off the engine on the machine which is providing jump start power.

First connect the jump start battery's positive terminal (1) to the flat battery's positive terminal (2). Then connect the jump start battery's negative terminal (3) to, for example, a bolt (4) or the lifting eye on the machine with the flat battery.

Start the engine on the power providing machine. Let it run for a while. Now try to start the other machine. Disconnect the cables in the reverse order.

