

Instruction manual

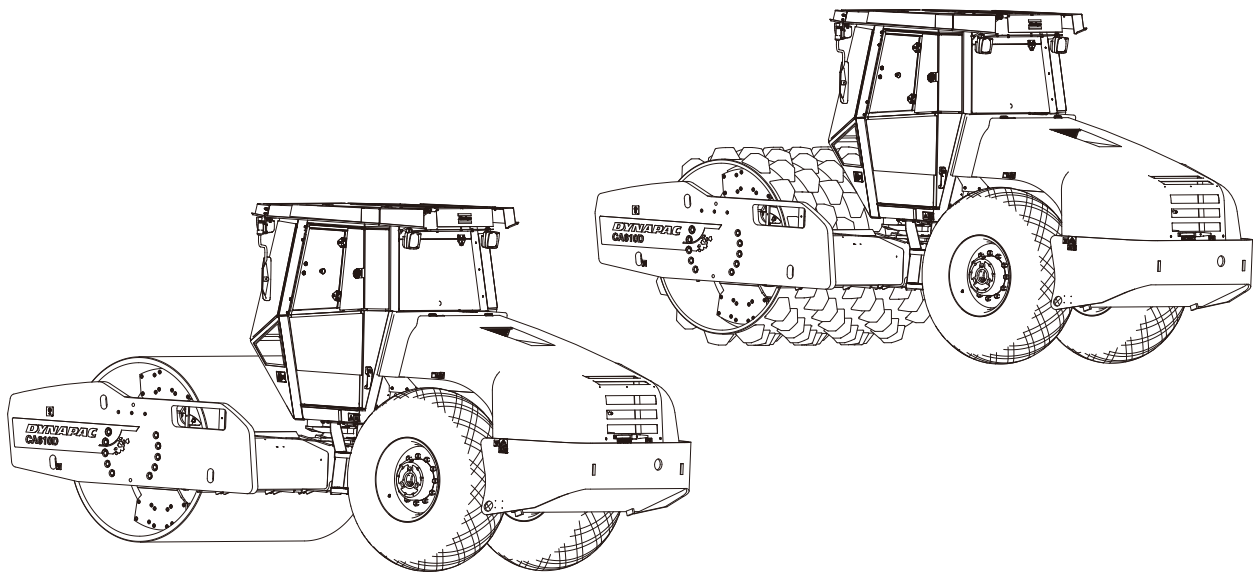
Operating & Maintenance

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**Vibratory roller
CA610 T3**

**Engine
Cummins QSB6.7-C170-III**

**Serial number
10000165KGC005741 -**



The Dynapac CA610 is a roller in the 20-ton class. CA610 is available in D (smooth drum) and PD (padfoot drum) versions. CA610D is intended for the compaction of rockfill. The main area of application for the CA610PD is on cohesive material and weathered stone material.

All types of base courses and subbase courses can be compacted deeper and the interchangeable drums, D to PD, and vice versa, facilitate even greater variety in the range of application.

The cab and safety-related accessories are described in this manual.

Translation of original instruction

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Safety - General instructions

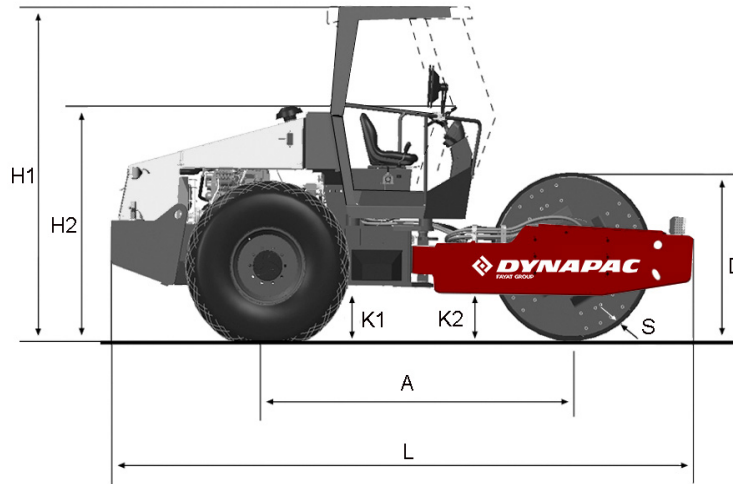
(Also read the safety manual)



1. **The operator must be familiar with the contents of the OPERATION section before starting the roller.**
2. **Ensure that all instructions in the MAINTENANCE section are followed.**
3. **Only trained and/or experienced operators are to operate the roller. Passengers are not permitted on the roller. Remain seated at all times when operating the roller.**
4. **Never use the roller if it is in need of adjustment or repair.**
5. **Only mount and dismount the roller when it is stationary. Use the intended grips and rails. Always use the three-point grip (both feet and one hand, or one foot and both hands) when mounting or dismounting the machine. Never jump down from the machine.**
6. **The ROPS (Roll Over Protective Structure) should always be used when the machine is operated on unsafe ground.**
7. **Drive slowly in sharp bends.**
8. **Avoid driving across slopes. Drive straight up or straight down the slope.**
9. **When driving close to edges, ditches or holes, make sure that at least 2/3 of the drum width is on previously compacted material (solid surface).**
10. **Make sure that there are no obstacles in the direction of travel, on the ground, in front of or behind the roller, or overhead.**
11. **Drive particularly carefully on uneven ground.**
12. **Use the safety equipment provided. The seat belt must be worn on machines fitted with ROPS/ROPS-cab.**
13. **Keep the roller clean. Clean any dirt or grease that accumulates on the operator platform immediately. Keep all signs and decals clean and legible.**
14. **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.**
15. **Before repairs or service:**
 - **Chock the drums/wheels and under the strike-off blade.**
 - **Lock the articulation if necessary**

Technical specifications - Dimensions

Dimensions, side view



	Dimensions	mm	in
A	Wheelbase, drum and wheel	2992	118
L	Length, standard equipped roller	6180	244
H1	Height, with ROPS (D)	2921	115
H1	Height, with ROPS (PD)	2989	117,6
H1	Height, with cab (D)	2961	116,5
H1	Height, with cab (PD)	3008	118,4
H2	Height, without ROPS (D)	2186	86
H2	Height, without ROPS (PD)	2238	88
D	Diameter, drum (D)	1573	61,9
D	Diameter, drum (PD)	1543	60,75
S	Thickness, drum shell, Nominal (D)	50	1,97
S	Thickness, drum shell, Nominal (PD)	35	1,38
P	Height, pads (PD)	100	4
K1	Clearance, tractor frame (D)	450	17,7
K1	Clearance, tractor frame (PD)	450	17,7
K2	Clearance, drum frame (D)	460	18,1
K2	Clearance, drum frame (PD)	460	18,1

Machine plate - Identification

Product identification number on the frame

The machine PIN (product identification number) (1) is punched on the right edge of the front frame or the upper edge of the right frameside.

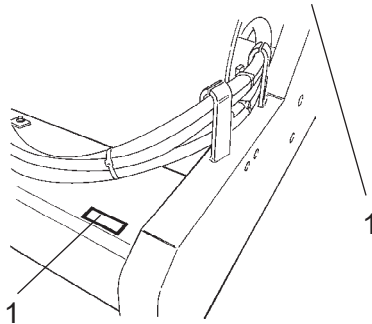


Fig. Front frame
1. PIN

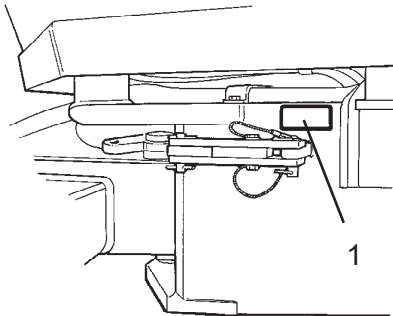


Fig. Operator platform
1. Machine plate

Machine plate

The machine type plate (1) is attached to the front left side of the frame, beside the steering joint.

The plate specifies the manufacturers name and address, the type of machine, the PIN product identification number (serial number), operating weight, engine power and year of manufacture. (If the machine is supplied to outside the EU, there are no CE markings and in some cases no year of manufacture.)









 <small>FAYAT GROUP</small> Dynapac (China) Compaction & Paving Equipment Co., Ltd. 38, Quanwang Rd, Wuqing High Tech Ind. Park, Tianjin, China 301700			
Product Identification Number			
Designation	Type	Rated Power	Max axle load front / rear
		KW	kg
Gross machinery mass	Operating mass	Max ballast	[Date of Mfg]
kg	kg	kg	
Made in China <small>4812 1128 74</small>			

Fig. Machine plate

Please state the machine's PIN when ordering spares.

Function description of instruments and controls in the cab

No	Designation	Symbol	Function
1	Control, fan		In the left position, the fan is OFF. In the right position, maximum fan.
2	Outside air circling		
3	AC, switch		
4	Control, temperature		In the left position, the heating is OFF. In the right position, maximum heating.
5	Hammer for emergency exit		To escape from the cab in an emergency, release the hammer and break the REAR window.
6	Cab lighting, switch (Optional)		Push in to turn on cab lighting
7	Windscreen wiper fluid container (Optional)		Fill with screenwash as required.
8	Handbook compartment		Stowage space for safety manual and instruction books.
9	Front wiper, switch		Press to operate the front screen wiper.
10	Front window screen washers, switch		Press at the top to spray the windshield.

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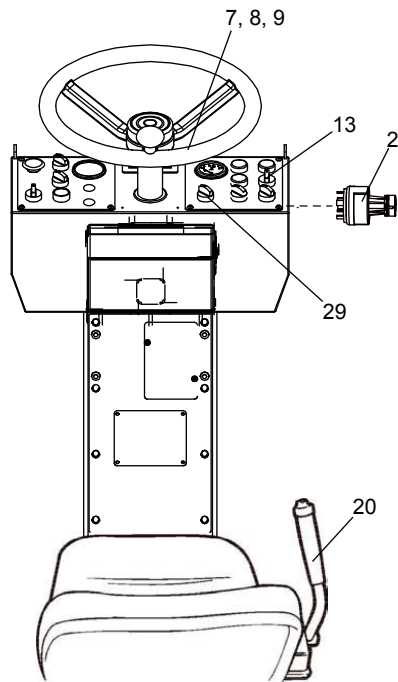


Fig. Instrument panel

- 2. Starter switch**
- 7. Charging lamp**
- 8. Brake warning lamp**
- 9. Oil pressure/ temperature lamp**
- 13. Ampitude selector**
- 29. Engine RPM control**

Starting

Starting the engine

Set the forward/reverse lever (20) in neutral. The engine can only be started when the lever is in neutral.

Set the amplitude selector (13) for Low/High vibration to position O.

Set Engine RPM control (29) to low (idle mode) to start.

Turn the starter switch (2) to the right to position ON. Then turn the switch to "Start" to start engine.



Do not run the starter motor for more than 30 sec. If the engine does not start immediately, wait for 2 minutes to start the engine.

Let the engine idle for 2-5 minutes to warm, longer if the ambient temperature is below +10°C (50°F).

While the engine is warming up, check that the warning lamps for oil pressure (9) and charging (7) are turned off. The warning lamp (8) for the reserve/parking brake should still be lit.



Ensure that there is good ventilation (air extraction) if the engine is run indoors. Risk of carbon monoxide poisoning.



When starting up and driving a cold machine, which implies cold hydraulic fluid, the braking distance will be longer than normal until the machine reaches working temperature.

Miscellaneous

Lifting

Locking the articulation



Articulation must be locked to prevent inadvertent turning before lifting the roller.

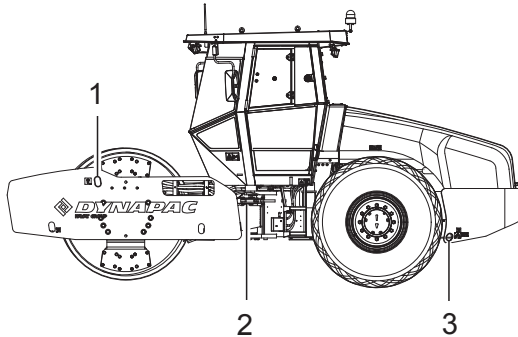


Fig. Articulation in the locked position

- 1. Locking arm
- 2. Locking pin
- 3. Locking stud

Turn the steering wheel to the straight ahead position. Push in the emergency/parking brake knob.

Pull out the lowermost locking pin (2), which has a wire attached. Pull up the locking dowel (3) which also has a wire attached.

Fold out the locking arm (1) and secure it.

Fit the locking stub (3) in the holes through the locking arm (1) and locking lug (4) and secure the stud in position with the locking pin (2).

Weight: refer to the hoisting plate on the roller

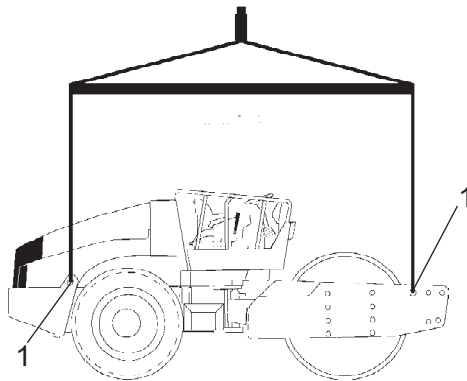


Fig. Roller prepared for lifting
1. Hoisting plate

Lifting the roller



The machine's gross weight is specified on the hoisting plate (1). Refer also to the Technical specifications.
















Lifting equipment such as chains, steel wires, straps and lifting hooks must be dimensioned in accordance with the relevant safety regulations for the lifting equipment.



Stand well clear of the hoisted machine! Make sure that the lifting hooks are properly secured.

Maintenance symbols

	Engine, oil level		Tyre pressure
	Engine, oil filter		Air filter
	Hydraulic reservoir, level		Battery
	Hydraulic fluid, filter		Recycling
	Transmission, oil level		Fuel filter
	Drum, oil level		Coolant, level
	Oil for lubrication		

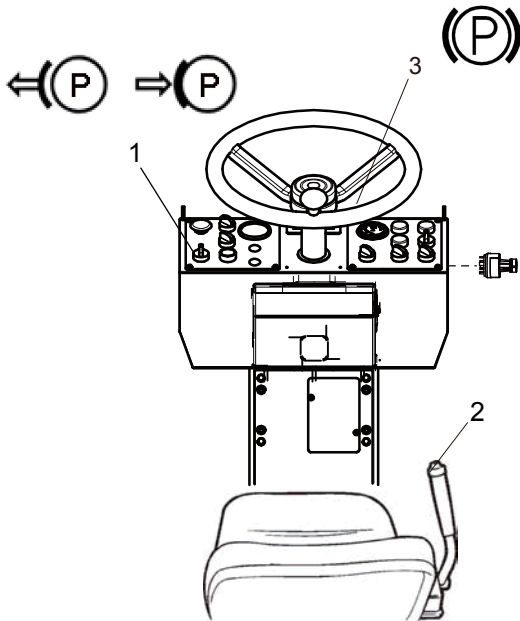


Fig. Control panel
1. Parking brake
2. Forward/Reverse lever
3. Brake warning lamp

Brakes - Check



Check the brakes by carrying out the following :

Drive the roller **slowly** forwards.

Turn the parking brake (1) to the right. The warning lamp (3) on the instrument panel should come on and the roller should stop.

After testing the brakes, set the forward/reverse lever (2) in neutral.

Pull up the emergency/parking brake knob.

The roller is now ready for operation.



Drum gearbox - Checking the oil level

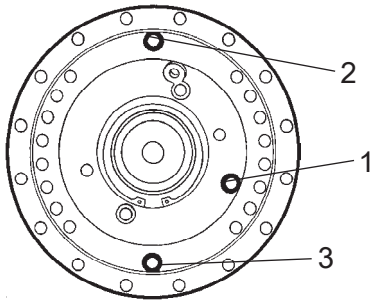


Fig. Oil level check - drum gearbox
1. Level plug
2. Filler plug
3. Drain plug

Position the drum so that the filler plug (2) is straight up.

Wipe clean the area around the level plug (1) and then undo the plug.

Ensure that the oil level reaches up to the lower edge of the plug hole.

Top off with oil to the right level if the level is low. Use transmission oil according to the lubricant specification.

Clean and refit the plugs.



Drum cartridge - Checking the oil level

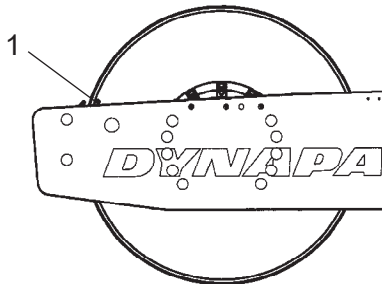


Fig. Left drum side
1. Indicator pin

Position the machine level so that the indicator pin (1) on the inside of the drum is aligned with the top of the drum frame.

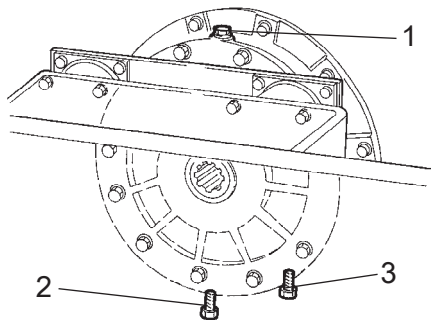


Fig. Right drum side
1. Filler plug
2. Drain plug
3. Level plug

Wipe clean the filler plug (1) and level plug (3).

Unscrew the filler plug (1).

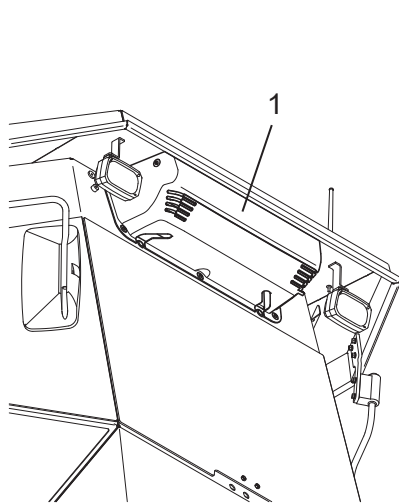


Fig. Cab
1. Fresh air filter



Air conditioning (Optional) Fresh air filter - Change



Use a step ladder to reach the filter (1). The filter can also be accessed via the right cab window.

Loosen the screws on the cab's right side. Take down the whole holder and remove the filter insert.

Replace with a new filter.

It may be necessary to change the filter more often if the machine is working in a dusty environment.



Rear axle central gear reducer - Oil change



Never work under the roller when the engine is running. Park on a level surface. Block the wheels securely.

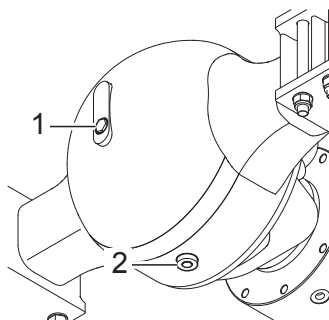
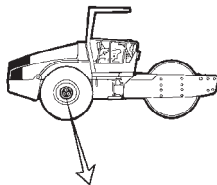


Fig. Rear axle
1. Level/Filler plug
2. Drain plugs

Wipe clean and remove the level/filler plug (1) and all three drain plugs (2) and drain the oil into a suitable receptacle. The volume is approximately 14 liters (14.8 qts).



Save the oil and dispose of it in an approved manner.

Refit the drainage plugs and top up with fresh oil until the correct level is reached. Refit the level/filler plug. Use transmission oil, see Lubricant Specification.

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