

DYNAPAC STATIC ROLLER



Dynapac CS1400



THE DYNAPAC CS1400 STATIC ROLLER is a modern, articulated three-drum roller with the same static linear load and drum diameter on all drums. The roller covers the asphalt mat with its full width. The CS1400 roller is used primarily to compact asphalt when the course has a typical thickness of up to 50 mm, depending on the stiffness of the asphalt compound and the prevailing weather conditions.

The machine is suitable for medium-size and large-size applications. It is ideal for use in areas where the ground should not be vibrated, such as in areas close to old buildings and on bridges.

STATIC COMPACTION AT ITS BEST



SERVICE-FRIENDLY LOW EMISSION ENGINE

The Dynapac CS1400 has ample power resources and fulfils the latest Stage IIIB/T4 final emission regulations. The engine is easily accessed, as it is placed between the front drums under a large engine hood. All service points are located within easy reach from the ground.

CENTRAL HYDRAULIC TEST PANEL

The Dynapac CS1400 has a central test panel for the hydraulic system, which makes inspection and trouble-shooting swift and simple. The panel – with quick couplings – is easily accessed from the ground, and is well protected inside the articulated hitch.

OPERATOR'S ENVIRONMENT

The operator has a perfect view of the work in progress. The drum positions and the elevated rubber mounted operator's platform with two separate operator stations provide excellent visibility of the drum edges. Instruments and controls are located exactly where they should be, within easy reach of the operator.

BALLAST SYSTEM

Flexible water ballast system with variable static linear load.

Front drums: 51 kg/cm to 60 kg/cm

Rear drum: 49 kg/cm to 59 kg/cm

BRAKE SYSTEM

The Dynapac CS1400 features the same reliable safety brakes as other Dynapac rollers. The brakes are automatically engaged on all three drums in the event of engine malfunction or hydraulic failure. In addition, the reserve/parking brake button on the instrument panel is easily accessible from both operator stations.

ALL EQUAL LOAD

The equal static linear load on the three drums and the centre point articulation makes it possible to calculate with the full 2100 mm compaction width all the time. This gives up to 50% more capacity compared with old pivot steered concepts. The 50% higher capacity means 50% lower fuel consumption and 50% less working time needed.

SPRINKLER SYSTEM

The sprinkler system is pressurised, with two separate pumps, back-up function, and filtering of the water. The high-resistant plastic water tanks have large filling openings for quick and easy filling from ground level.

The entire sprinkler system is made of non-corrosive material to ensure high reliability and to prevent adhesion. A sprinkler timer is available as an option.





Easy access to all daily maintenance points. A central hydraulic control panel is available as standard.

ROPS/Cab with large windows provides a good view over the working area.

Driven rear drum with same large diameter as the front drums. Equal static linear load over the whole machine width.

Two driven front drums with large diameter provides best traction and eliminates shoving of material.

Articulated centre pivot steering ensures proper drum overlapping even when turning or changing lanes.



ROPS/CAB AVAILABLE AS OPTION

The roller operator has got a direct impact on the compaction efficiency and the cost for compaction. An enclosed, ergonomically designed and comfortable safety cab is available as an option to improve the operator's environment. Large windows, even lower noise level, heater, high-positioned working lights and air filters are among the features that make the cab a good investment. Air condition (AC), radio/CD player, asphalt temperature meter are available as further enhancements that will keep the operator fit and alert. Still, with this enhancement the total machine height remains below 3 metres.

TECHNICAL DATA

Operating mass (without ballast)
 Module mass, front/rear (without ballast)
 Max. operating mass (Ballasted)
 Module mass, front/rear (Ballasted)
 Static linear load without/with ballast

Speed
 Propulsion
 Water tank
 Compaction width
 Drum diameter
 Length
 Width
 Height, with cab
 Height with ROPS

Engine

Model Deutz TD 3.6 IIIB/T4final
 Rated power, SAE J1995, at 2200 rpm, kW (hp) 55 (74)

CS1400 w ROPSCab

11 000 kg
 5 800/5 200 kg
 13 200 kg
 6 900/6 300 kg
 Front: 51/60 kg/cm
 Rear: 49/59 kg/cm
 0-15 km/h
 Three Drums

530 litre
 2100 mm
 1500 mm
 4780 mm
 2100 mm
 2990 mm

CS1400N w ROPS

10 800 kg
 5 700/5 100 kg
 13 000 kg
 6 800/6 200 kg
 Front: 50/59 kg/cm
 Rear: 48/58 kg/cm
 0-15 km/h
 Three Drums

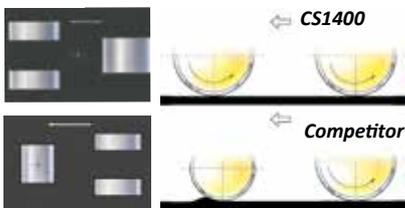
530 litre
 2100 mm
 1500 mm
 4780 mm
 2100 mm
 2500 mm
 3400 mm

STANDARD EQUIPMENT

Backup alarm
 Brake release
 Central test panel for hydraulic pressure
 Cover, instrument panel (ROPS only)
 Emergency stop
 Engine water temp. gauge
 Fuel gauge
 Horn
 Hour meter
 Hydraulic fluid temperature gauge
 Lifting and tiedown eyes
 Main battery switch
 Neutral start arrangement
 Pressurized sprinkler system
 ROPS (incl. seat belt) *
 Rotating beacon
 Scrapers, spring-loaded vulcolane
 Seats, dual. Sideways and for slideable
 Seat belts, 3"
 Sprinkler backup system
 Sprinkler timer
 Tachometer
 Warning lights for air cleaner, brake,
 hydraulic fluid filter, engine oil pressure
 and engine oil temperature
 Working lights

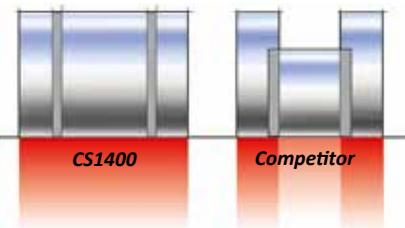
OPTIONAL EQUIPMENT

Asphalt Temperature Meter for cab
 Biologically degradable hydraulic oil
 Cab (incl. heaters)
 Comfort cab (incl. heater, AC, radio and CD player)
 Driving lights
 First aid kit for cab
 Slow Moving Vehicle sign (SMV)



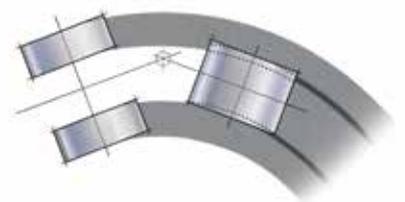
All-wheel drive

Propulsion on all three drums provides excellent gradeability and eliminates shoving of the material. The large drum diameters and smooth drum edges enhance rolling performance and compaction effect. Large diameter also virtually eliminates the bow wave problem and risk of surface cracks.



Equal static linear load on all drums

In static compaction, balance is a crucial matter. The Dynapac CS1400 presents perfect weight balance and matching drum width front and rear. The result is equal static linear load on all three drums. Large and equal drum diameter front and rear ensures uniform compaction effort across the entire machine width.



Centre-point articulation

The Dynapac CS1400 features small inside/outside turning radius, and vertical oscillating articulation. Articulated centre-pivot steering gives proper drum overlap and equal force over the entire rolling width, also when turning or changing lanes.

Your Partner on the Road Ahead



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