

DYNAPAC CO4200 VI

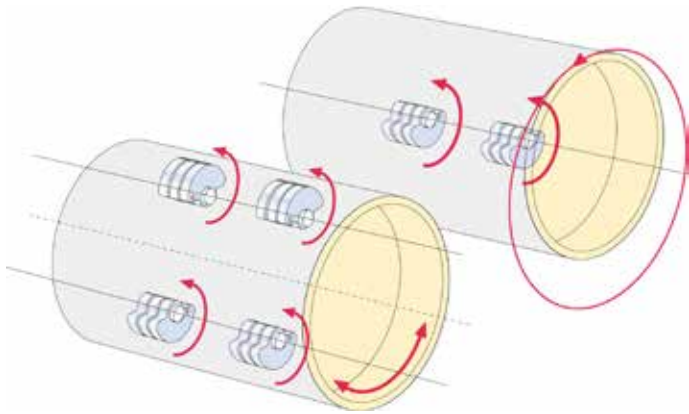
Double drum roller with oscillation



OSCILLATION

While introducing the large asphalt tandem rollers generation VI, Dynapac also offers the oscillation compaction concept. Meeting the special needs of the oscillation compaction concept, Dynapac has focused on **wear resistance and serviceability** in order to supply a long lasting and user friendly solution.

DESIGNED TO PERFORM, BUILT TO LAST



The Dynapac CO4200 has one vibrating drum with two vibration amplitudes and one oscillating drum. This allow the operator to select the system that is most suitable for the application on hand.



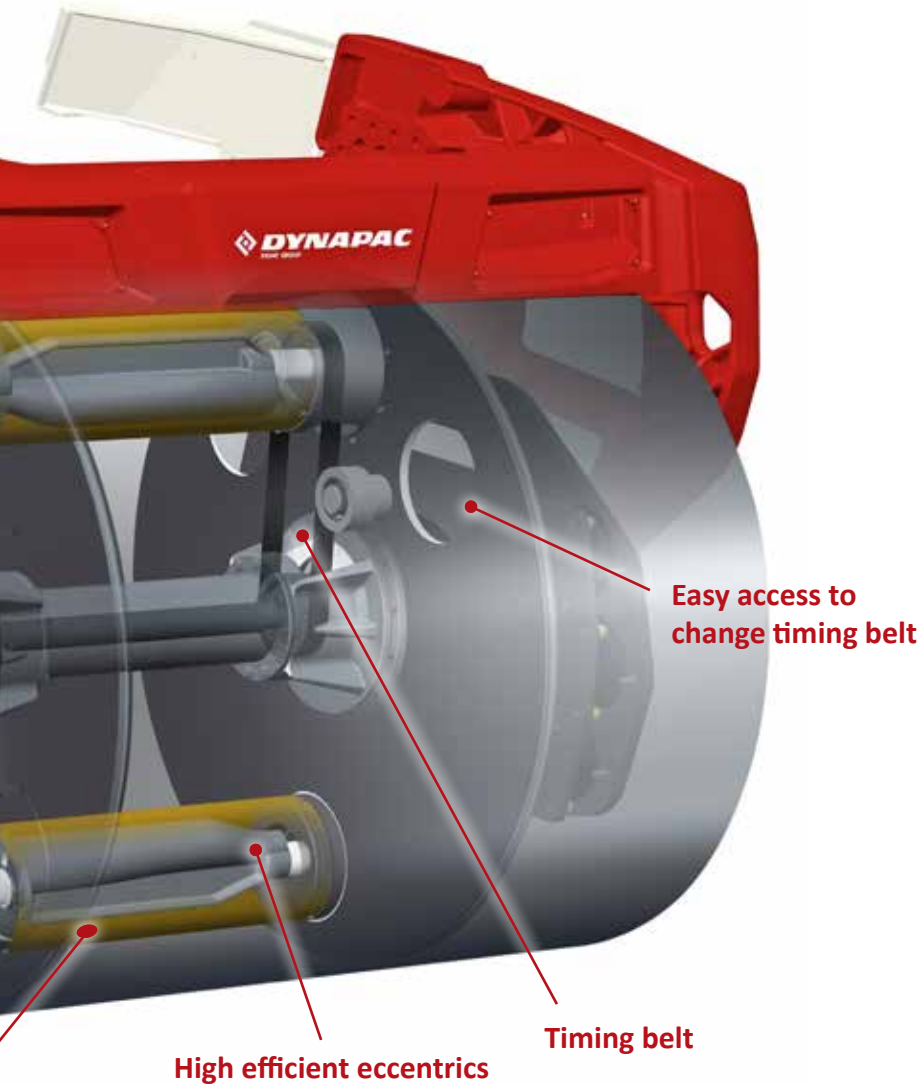
**High wear resistant
Hardox drum shell**

**Eccentric housing
with oilbath**

Oscillation has 100% ground contact.
No vertical vibration limits risk for damage
also on less qualitative aggregates.

Meeting state specification demands that oscillations should be used while compacting on bridge decks, near foundations or concrete structures.

Provides great performance on thin asphalt layers.



OSCILLATION

Two rotating eccentric weights placed away from the drum center will generate an oscillatory motion of the drum. This means that, as opposed to the vibration system, the drum does not move its axis of rotation, but rather oscillates around it.

The eccentric weights are driven by timing belts, these belts will eventually need to be replaced. The Dynapac CO4200 VI has been designed to make this service operation fast and efficient. On the oscillation drum we have four bolted service covers for easy reach of the timing belts. With every oscillation machine comes a special timing tool that is included. This together with other clever solutions makes it possible to change the timing belt within only two hours.

In order to eliminate excessive wear on the drum shell, the oscillating drum on the CO4200 VI has a drum shell made of super durable Hardox steel. The use of a Hardox drum shell will eliminate any wear problems encountered by other oscillating machines on the market.

Hardox in My Body

Hardox® 450

The oscillation drum shell is made of highly wear resistant Hardox steel.

Hardox® 450 is an abrasion-resistant steel with a nominal hardness of 450 HBW.

Hardox® 450, with an extra 50 Brinell hardness over 400 grade, provides better dent and abrasion resistance as well as longer drum life, ensuring many hours of trouble free running.



HARDOX®
IN MY BODY

Dynapac CO4200 VI Double drum vibratory rollers

Masses

Max. operating mass	28,775 lbs
Operating mass (incl. ROPS)	21,830 lbs
Module mass (front/rear)	11,025 lbs/10,805 lbs

Propulsion

Speed range	0-7.5 mph
Vertical oscillation	±7°
Theor. gradeability	40 %

Compaction

Centrifugal force (high/low amplitude)	28,780 lb/18,880 lb
Nominal amplitude (high/low)	0.031 in/0.012 in
Static linear load (front/rear)	167 pli/167 pli
Vibration frequency (high/low amplitude)	3,060 vpm/4,020 vpm
Water tank	180 gal/(233 gal w. opt. watert.)
Water tank (front drum steering)	195 gal

Compaction (Oscillation)

Oscillation force	27,450 lb
Oscillation frequency	2,400 vpm
Tangential amplitude	0.06 in

Engine

Manufacturer/Model	Cummins QSF3.8 IV/T4f
Type	Water cooled turbo Diesel with After Cooler
Rated power, SAE J1995	97 kW (130 hp) @ 2,200 rpm
Fuel tank capacity	48 gal
DEF tank capacity	4 gal

Hydraulic system

Driving	Axial piston pump with variable displacement. Radial piston motors (2) with variable displacement.
Vibration	Axial piston pumps (2) with variable displacement. Axial piston motors (2) with constant displacement.
Steering	Gear pump with constant displacement.
Service brake	Hydrostatic in forward and reverse lever.
Parking/Emergency brake	Failsafe multidisc brake in both drums.

Your Partner on the Road Ahead