

# DYNAPAC CO4200 VI

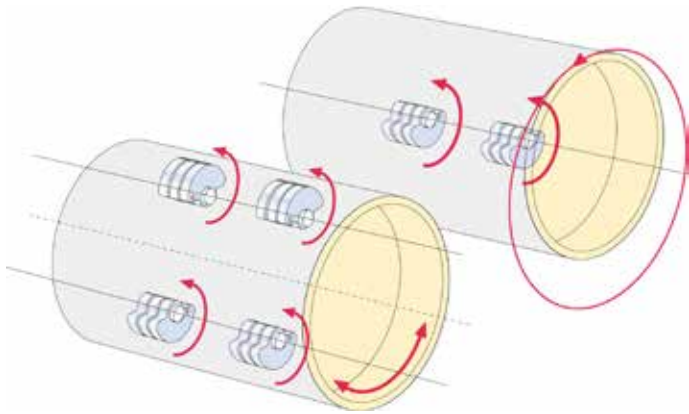
Double drum roller with oscillation



## 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**

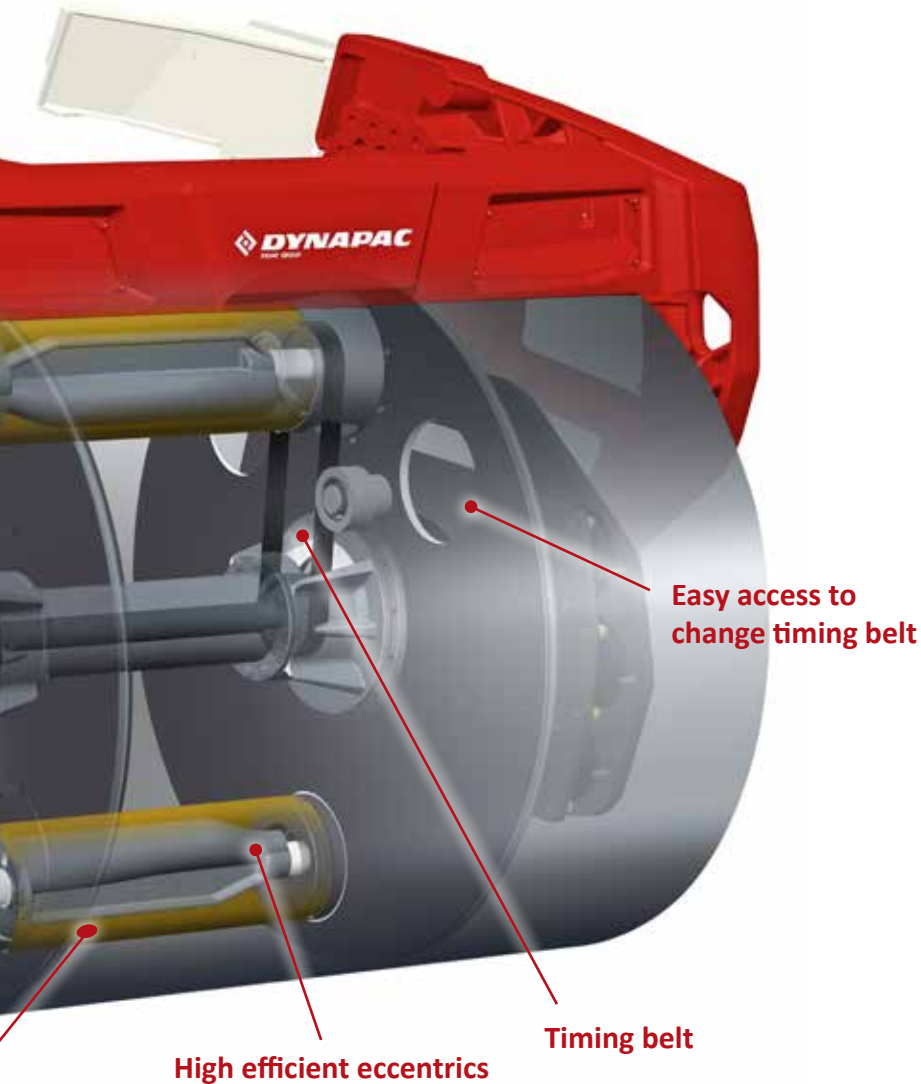
**Eccentric housing  
with oilbath**

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.<br>Radial piston motors (2) with variable displacement.     |
| Vibration               | Axial piston pumps (2) with variable displacement.<br>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*