DYNAPAC ASPHALT TANDEM ROLLERS

Dynapac CC4000 VI / CC4000C VI / CC4200 VI
CC4200C VI
CC5200 VI / CC5200C VI / CC6200 VI

dynapac.com
Sixth generation of Dynapac large asphalt rollers brings compaction quality to a new level!

A NEW PERSPECTIVE ON COMPACTION

Sixth generation of Dynapac large asphalt rollers brings compaction quality to a new level!
The first generation of Dynapac large asphalt rollers, the CC40, was introduced in 1964. Dynapac is now introducing the sixth generation, the CC4000 - CC6200 VI. The machines are extremely operator friendly, offering unmatched ease of operation, excellent maneuverability and highest quality compaction.

Performance
Electronic Drive Control
Active front drum steering
EcoMode
High vibration frequency
High efficient eccentrics
Water System

Visibility
1x1 m view
255 degree turnable operator station
Efficient lights for nightwork
Drum edge, drum surface and sprinkler nozzle visibility

Operator’s efficiency
Good ergonomics
Low noise
Easy to understand instrument panel
Easy to reach daily maintenance points

Serviceability
Easy to reach daily maintenance points
Reliable sprinkler system
Lubrication free articulated joint
Easy to reach hydraulic hoses
Dyn@Link

Compaction Control
Impactometer
Asphalt temperature meter
Evib Compaction Meter
Dyn@Lyzer

Total Economy
Automatic idle function
High efficient eccenters
EcoMode function
Dual pump vibration system for higher efficiency
FAST, EFFECTIVE COMPACTION FOR THIN LAYERS

High vibration frequency compaction has long been an important feature on Dynapac asphalt rollers. Modern thin layers need to be compacted fast because they cool off quickly. A higher amplitude will compact fast but might crush the aggregate material.

In the sixth generation Dynapac continues its successful concept of using high vibration frequency with low amplitude in order to maintain high efficiency on modern thin asphalt layers. This gives very effective compaction for thin layers. The rollers can, of course, also be used for thick layers with high amplitude and a “normal” vibration frequency.

VERSATILE DRIVING POSITION, EXCELLENT VISIBILITY

When designing the new generation Dynapac had, as always, the operator first in mind. The seat and steering module can be swiveled and are slidable from the left side of the roller to the right. This makes it possible for the operator to slide over and see the drum edges in a more ergonomic way.

As an option you can swivel the seat so that the operator is facing fully to the rear, allowing him or her to work with the same good ergonomics on both sides of the roller when moving backwards. This eliminates the limitations of defined forward and reverse working directions.

Together with this option comes the electronic mini-steering wheel that makes it even easier to steer the roller smoothly and accurately, taking the ergonomics and maneuverability to an even higher level.

1. High Vibration Frequency
2. Sliding and swivelng seat and steering module
3. 255 degrees turnable seat and steering module
4. Easy to use controls
5. Joint cutting and pressing
**SIMPLER CONTROLS, MORE INTELLIGENT MACHINE**

The new instrument panel and controls on the sixth generation were developed with “simplicity” as the key concept. The bigger touch screen ensures maximum visibility and, for those who prefer, there is a display control which can be used instead. The latest technology simplifies roller operation, ensures optimized handling and thus increases the quality of the compaction job.

The start-up procedure is another example of simplicity. Turn the ignition key, set the forward/reverse lever in neutral and push the start/stop button. The machine intelligence takes care of the rest, including pre-heating, and the engine starts when ready. Another feature is the possibility to turn the working lights on and off individually, directly on the display.

**COMBINATION ROLLERS**

Dynapac CC4200VI and CC5200VI can be ordered in Combi versions to further improve top layer texture. The Combi module is placed rear. Standard equipment includes emulsion sprinkler system, handles and foot-steps for tank filling, quick-release of scrapers and cocoa mats for easy cleaning. Heat covers are available as option.

**JOINT CUTTING AND PRESSING**

The edge press strengthens the asphalt edge, and can also be equipped with the joint cutting disc for asphalt edge trimming prior to jointing. You can get the edge presser on the front drum, right or left side. It is also possible to get it on the rear drum, left side.
**TECHNICAL FEATURES AND BENEFITS DURING COMPACTION**

1. **180 DEGREES STANDARD, 255 DEGREES OPTIONAL**
   The swiveling operator’s module allows a 180° (+/- 90°) turn of seat, instruments and levers, keeping the operator in full control. It can also slide from side to side. As an option there is a 255° turning fully eliminating the limitations of defined forward and rewards working directions.

2. **VISIBILITY**
   Full visibility of drum surfaces, sprinkler nozzles and drum edges. Optional active front drum steering/offset improves the drum edge visibility even more.

3. **COMPACTION DATA**
   Compaction data that make the machine versatile. A wide frequency and amplitude range provides optimization for any layer thickness. Eccenters designed for highest efficiency keeps power consumption low at the start-up of vibration.

4. **BACK-UP SPRINKLER SYSTEM**
   Back-up sprinkler system means less breaks for cleaning of nozzles and includes a backup sprinkler pump. All nozzles placed on the outer scraper.

5. **ACTIVE FRONT DRUM STEERING WITH OFF-SET FUNCTION**
   Gives very good control on the front drum edges making it possible to follow curbstones and other obstacles with very good accuracy. More than 520 mm offset for CC4000VI – CC5200VI.

6. **WATER CAPACITY**
   Large water capacity increases the operating time between water refill breaks. Fill-up can be done from both sides.

7. **EASY NIGHTWORK**
   Working lights of LED type is standard which means less maintenance and better visibility also on the drum surfaces. The optional drum edge lights makes nightwork even easier.
Optional Dyn@Lyzer helps you do a perfect job. Full documentation of temperature, compaction Eviib value and number of passes.

**OPERATOR PLATFORM**
ROPS and two different cab types are available, always with the sliding and swiveling operator’s module plus the optional 255 degrees turning that fully eliminates the limitations of defined forward and rewards working directions. Big full color touch display for max visibility that also can be run with the display control if preferred.

**LOW EMISSIONS**
The fuel efficient Stage IIIA/T3 and Stage IV/ T4f engines can be equipped with optional EcoMode achieving up to 15% reduction in fuel consumption. Automatic idling function is standard working.

**SERVICE FRIENDLY**
Service-friendly, engine compartment with all more frequent check points easy aces-able when engine hoods are opened. The location on the rear module reduces noise and heat for the operator.

**OPTIONAL EDGE PRESSER/ CUTTER**
Edge presser tool for better joint binding. We have installed it with best operation visibility in mind.

**CHIP SPREADER**
Optional rear mounted chip spreader. To be used for creating friction on newly laid asphalt.
ADVANCED STEERING GIVES UNMATCHED MANEUVERABILITY

Much appreciated by machine operators, Dynapac has for some time created offset on its Dynapac asphalt rollers by the unique method of combining articulated steering with a steerable rear drum. On the sixth generation Dynapac has taken it a step further for the CC4000VI-CC5200VI by increasing the offset to 520 mm and using the front drum for offset for even better driving accuracy.

The increased offset to 520 mm gives a very small turning radius when used in combination with the steering hitch. It makes it possible to move a larger portion of the machine mass inwards on the road when compacting weak road edges, thus making the roller more stable. It also increases the surface capacity when making the final static passes to get rid of marks in the mat.

Using the front drum for offset means that the roller operator will have very good control of the front drum edges and can follow a curb or other obstacles with a high degree of accuracy.
COMPACT POWER ENGINE
A choice between diesel engines fulfilling Stage IIIA/T3 and Stage IV/T4f offers impressive power reserves and significant operation benefits. Easy cold starting, low noise, rapid diagnostics and faster load acceptance are just some of them.

- EcoMode for up to 15% reduction in fuel consumption is available as option.
COMPACTION CONTROL & DOCUMENTATION SYSTEM

Dynapac’s experience in Continuous Compaction Control (CCC) or Intelligent Compaction (IC) dates back to the late 70s. Since then we have been able to offer our customers the opportunity to control the compaction work in real time and to document the completed work for improved quality control.

TWO LEVEL SYSTEM

The DYN@LYZER system is built up in two levels.

The first level is the Compaction Meter, now using Evib readings for both soil and asphalt:

On asphalt rollers this is supplemented by the Asphalt Temperature Meter. It utilizes two temperature sensors, one at each end of the roller, to register the surface temperature of the asphalt. The temperature is measured by the sensor that is currently at the front depending on the driving direction. This minimizes the influence of surface water from the drum sprinklers.

The second level of the system is the Evib Compaction Meter plus the Dyn@lyzer with GNSS (Global Navigation Satellite System):

This registers all the Compaction Meter data and continuously displays the compaction results to the operator on the computer screen. The data is, at the same time, recorded and saved allowing full traceability and quality assurance. The GNSS receiver (such as GPS, GLONASS, Galileo, etc) gives the precise position of the roller on the job site at all times. The level of accuracy depends on site requirements.

DYN@LYZER FOR ASPHALT

Compaction Documentation
Records and maps in real time:
- Evib Compaction Meter values
- Progress of Compaction Meter values, relative
- Temperature Meter values
- Number of passes
- Supports the roller operator to optimize compaction effort

Analysis of the compaction
- Compaction Meter values (stiffness)
- Progress of Compaction Meter values (progress of stiffness)
- Temperature
- Number of passes
- Statistics and distribution
- Export PDF report and data text file

Facts about the DYN@LYZER
- Multiple machines can be factory prepared. This ensures a cost effective way to prepare a fleet of machines with the DYN@LYZER as they can share DYN@LYZER computer and GNSS equipment for use as required.
- User-friendly, modern user interface
- 11.6” full color touch screen
- Electronic keyboard for entry of data
- Mobile memory for permanent storage
- Several languages to choose from
- Runs on the roller’s 24V battery or internal battery
- Tablet weight: 1.4 kg
- 220V adapter for office use
- Rugged tablet, resistant to dust, moisture and vibrations
- In Multi version, office software is included as well as machine-to-machine communication
EcoMode
We are proud to announce that we have fulfilled our promise to offer customers soil and asphalt rollers with very low fuel consumption. The secret is our EcoMode.
We closely monitored the fuel consumption of the new large CC asphalt rollers. As a result, we can now confirm that with optional EcoMode, all the rollers consume up to 15% less diesel fuel than our previous range without EcoMode.

The entire range of Dynapac 10-13 t tandem rollers have Stage IV/T4f engine alternatives with very low emissions. For less regulated markets we also offer a IIIA engine as an alternative.

When using the ECO-system the percentile saving is higher during compaction than during idling and transportation. Combine the fuel savings with biodegradable hydraulic oil and very low noise levels and the result is “green” rollers.

WHAT MORE DID WE DO TO REDUCE THE FUEL CONSUMPTION?
The answer is hard work both with major components and with small details. Here are some examples:

- Double pump vibration system
- Reduced number of hydraulic hose fittings
- Proportional control of cooler fan speed with regards to engine coolant and hydraulic oil temperatures
- Automatic idling of the diesel engine after 10 seconds in neutral

CONNECTING TO THE FUTURE
With the introduction of Dyn@Link Advanced as standard, Dynapac provides customers with a tool to monitor and manage their machine fleet efficiently and conveniently. The intelligent telematics system offers many possibilities to optimize fleet usage, to reduce maintenance costs and to save time and money.

ALL MACHINE INFORMATION AT A GLANCE
All machines, together with important information such as position, fuel and Ad-blue levels, service status and map view, are listed on the dashboard. Thanks to the online portal and the Dyn@Link app, users can access this information from anywhere and at any time.

CUSTOMIZE THE TOOL
The user-friendly webpage is easy to learn and the various filters and personal setting options for graphs and tables allow you to adapt the webpage to your individual requirements.

The systems include the hardware with sim-card, webpage access and a 36-month data connection package, which can be extended after 3 years.
### 1. MACHINE TYPES

- **Standard drums**
- **Combi**

### 2. STEERING

- **Active front drum steering with offset**
  CC4000VI – CC5200VI
- **Standard steering**

### 3. ENGINES

- IIIA/T3 or IV/T4f

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**Engine compartment - left side**

**Engine compartment - right side**
### 4. OPERATOR’S PLATFORM

- **180° swiveling operator’s platform**
- **255° swiveling operator’s platform including electric mini steering wheel**

### 5. OPERATOR’S PLATFORMS FEATURES

#### Asymmetric Cab
- Integrated ROPS
- Operators station, sliding and rotating
- Seat belt 3"
- Heating system
- Frequency meter/impactometer
- Stepless speed fan system with filter
- Floor mat
- Lights working, LED
- Panel covers, interior
- Inner roof: Noise absorbing
- Internal rear view mirror
- Hooks: Two
- Charger socket: One 24V & one 12V
- Interior light
- Steering wheel: Adjustable
- Storage: Front & Rear cover net bags
- Cup and can holder
- Tinted safety glass
- Openable side windows
- Wipers and washers:
  - Front/rear also on the asymmetric part
  - Rotating beacon
  - Rear view mirrors, traffic and process view
  - Back-up alarm
  - Sprinkler system additional

#### Asymmetric Comfort Cab
- Asymmetric Cab features + ACC
- Operator’s seat, luxury
- Radio with bluetooth

#### Rops Platform
- Roll over protection structure
- Floor mat and anti-slip
- Panels: Back cover
- Lights working, LED
- Charger socket: One 24V & one 12V
- Steering wheel: Adjustable
- Frequency meter/impactometer
- Storage: Integrated in panel
- Operators station, sliding and rotating
- Operator’s seat, suspension
- Seat belt 3"
- Vandal cover
- Rotating beacon
- Lunch box holder
- Back-up alarm
- Sprinkler system additional

#### Selectable options:
- Rear view mirrors, traffic

### 6. OPTIONS

- Asphalt temp meter with dual sensors
- Biodegradable hydraulic fluid
- Chip spreader
- Edge press, - single, right front - dual, front right and front left - dual, right front and left rear
- Evib Compaction Meter
- First Aid Kit
- Joint cutter disc, 80/150mm
- Lights drum edge
- Special color (one or two colors)
- Tool set
- One extra watertank*
- Water tank cover, lockable
- Service kit 50/500/1000 h
- Decal risk location (GOST)
- Lights, direction, side mounted
- Lights, driving (left or right hand)
- Lights, licence plate
- Steering, emergency
- Slow moving vehicle sign
- Foot rest
- Rotating beacon, ignition controlled
- Heat cover wheel (for Combi only)
- Dyn@Lyzer
- Tachograph
- Tachograph prep.
- Fire extinguisher

* Standard on active front drum steering with offset.
COST CONTROL THAT SAVES BIG

Being active in the Road Construction business requires considerable investment. Every square meter involves an operational cost composed of fixed costs such as interest on equipment acquired, labor costs, insurance and equipment depreciation, but also variable costs such as expenses for fuel, wear and maintenance.

**Operator cost**
The operator is always a very big part of the total cost. Operators using Dynapac equipment will enjoy good ergonomics and easy-to-operate equipment.

**Investment cost**
The purchase price is often only a relatively small part of the total cost. Dynapac rollers and pavers maintain a high value throughout their working life, which is good to know if you ever want to sell it.

**Maintenance cost**
All road construction equipment need regular check-ups such as change of oils and filters. Dynapac always strives to use components that require as little maintenance as possible.

**Wear cost**
Since Dynapac always uses high-quality wear parts, the time that is needed to change them can be kept to a minimum. Customers who use Dynapac spare parts will improve reliability and protect their investment.

**Fuel cost**
Fuel expenses can make up a large part of your total cost. Since Dynapac rollers and pavers are equipped with a very efficient hydraulic system, your fuel cost can be kept at a low level.
PREVENT THE COST OF A BREAKDOWN

REGULAR MAINTENANCE PREVENTS COSTLY STANDSTILLS.
Equipment breakdowns have a direct impact on your productivity. No production means no revenue, but the fixed costs stay the same, resulting in lower profitability. By avoiding breakdowns and increasing the reliability of your machine, you will be able to produce more per year, which will immediately improve your profitability.

PREVENTIVE MAINTENANCE KITS

All in one box and tailored to match your equipment. Easy to obtain and attractively priced, our preventive maintenance kits contain all the parts required for the equipment’s scheduled maintenance program. When installed by one of our certified technicians, you keep equipment downtime to a minimum and its uptime to a maximum throughout its working life.

PREVENTIVE MAINTENANCE PAYS BACK

Equipment needs preventive maintenance that demands

- Timely intervention to avoid expensive breakdowns
- High quality maintenance also means higher resale value (residual value)
### TECHNICAL DATA

**DYNAPAC ASPHALT TANDEM ROLLERS**

<table>
<thead>
<tr>
<th></th>
<th>CC4000 VI</th>
<th>CC4000C VI</th>
<th>CC4200 VI</th>
<th>CC4200C VI</th>
<th>CC5200 VI</th>
<th>CC5200C VI</th>
<th>CC6200 VI</th>
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<tbody>
<tr>
<td><strong>Drum width, mm</strong></td>
<td>1 680</td>
<td>1 680</td>
<td>1 680</td>
<td>1 680</td>
<td>1 950</td>
<td>1950</td>
<td>2130</td>
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<tr>
<td><strong>MASSES</strong></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td>Operating mass , kg (incl. ROPS)</td>
<td>9 700</td>
<td>9 000</td>
<td>10 000</td>
<td>9 300</td>
<td>11 800</td>
<td>10 500</td>
<td>12 400</td>
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<tr>
<td><strong>TRACTION</strong></td>
<td></td>
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<tr>
<td>Speed range</td>
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<td>0 -12</td>
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<td>0 -12</td>
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<tr>
<td>Vertical oscillation</td>
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<td>±7°</td>
<td>±7°</td>
<td>±7°</td>
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<tr>
<td>Theor. gradeability</td>
<td>45 %</td>
<td>45 %</td>
<td>40 %</td>
<td>40 %</td>
<td>34 %</td>
<td>34 %</td>
<td>32 %</td>
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<tr>
<td><strong>COMPACTION</strong></td>
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<tr>
<td>Centrifugal force , kN high/low amplitude</td>
<td>113/74</td>
<td>113/74</td>
<td>128/84</td>
<td>128/84</td>
<td>144/93</td>
<td>144/93</td>
<td>157/103</td>
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<tr>
<td>Nominal amplitude, mm high/low</td>
<td>0.8/0.3</td>
<td>0.8/0.3</td>
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<td>0.8/0.3</td>
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<tr>
<td>Static linear load kg/cm (front/rear)</td>
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<td>28.9</td>
<td>29.8/29.8</td>
<td>29.8</td>
<td>30.3/30.3</td>
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<td>Water tank, l</td>
<td>700/900</td>
<td>700+200</td>
<td>700/900</td>
<td>700+200</td>
<td>850/1050</td>
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