Tandem Asphalt Rollers

CC224HF / CC234HF / CC324HF / CC334HF
CC384HF / CC424HF / CC524HF / CC624HF
CC224CHF / CC234CHF / CC324CHF / CC334CHF
CC424CHF / CC524CHF
Our tandem rollers are designed with efficiency in mind - application efficiency, operator efficiency, compaction control efficiency and service efficiency. Performance, visibility, operators comfort, compaction control and serviceability for the CC line will appeal to owners, operators and service crews. The environmental benefits appeal to everyone.

All models have high frequency vibration as standard.

- **Top quality results**
  With the Dynapac rollers you achieve high quality surface finishes through operational features such as soft starting and stopping to prevent unevenness or cracking in the asphalt layers. This allows even an unskilled operator to start and stop without leaving marks. In a panic situation, the machine will drop out of the soft mode and brake immediately, signalling the need for an emergency stop.

- **Highest availability**
  There is a number of features to the CC rollers to make servicing quick and easy, ensuring maximum uptime.

  The use of a double pump vibration system eliminates the need for a vibration valve, making the system more efficient, aiding servicing and reducing fuel consumption. Both pumps – one for the front drum and one for the rear – can simply be shut off.

  With a volume of 750 litres for the CC224HF - CC334HF, 900 liters for CC424HF and as much as 1400 liters as an option for CC524 - 624HF, it gives ample water resources.

- **The operator in control**
  One way of achieving high quality compaction is to optimise the ergonomics, ensuring that operators have continuous visibility of the operation and comfortable access to the controls. The corrosion-free water tank is mounted in the front frame. This helps the rollers feature 1 x 1 metre view and full visibility of all working functions.

  You can tailor your roller to local conditions, including operator’s platform with ROPS, ROPS cab, aircondition etc.

- **Expertise in every aspect**
  Experience is the base of excellence. Dynapac will always help you to reach perfection.
Real-life performance
No matter the application. Dynapac will always offer an optimized solution.
Unique Characteristics
- from the Experts in Road Construction

**Compacts any type of asphalt mix**
With high frequency/low amplitude for thin layers and high amplitude for thick layers the machines are versatile and will efficiently compact any type of asphalt mix.

Thin layers with high stone content cool off quickly and need to be compacted fast, but use of a high amplitude risks crushing the aggregate. Dynapac recommends a high frequency and lower amplitude.

**Control panel with valuable information**
The clear LCD control panel gives operators the information they need. All the gauges are displayed and the operator can change between menus at the touch of a button. Further information about compaction results and guidance can be provided through the optional DCA-A system.

**Steering system with flexibility**
All machines can be equipped with the optional off-set drum (split drum and combi rollers have off-set as standard.) This in combination with the asymmetric cab make the machines very easy to operate.

**Powerful engine**
The new models are powered by Cummins QSB 3.3 and QSB 4.5 water-cooled turbo-diesel engines with after cooler.

Dynapac’s automatic engine idling system together with a highly efficient hydraulic system makes fuel consumption low and efficient. Infinite adjustable maximum speed is standard.
Outstanding operator comfort
We have equipped the machines with slideable and turnable seat and steering module for best ergonomics. The engine is placed on the rear module with less heat and noise for the operator. The very low vibration level on the operator’s platform also adds to the comfort of the operator. The noise level is very low, enabling long working days without fatigue.

Environmental thinking all the way
Environmental benefits are achieved through reduced fuel consumption and quieter operation. Efficiency enhancements have saved some 8 kW in the operation of a typical model in the range, with consequent improvements in the running costs and noise. Biodegradable hydraulic fluid is optional. The automatic idling system and alternative horse power rating keep exhaust emission on a low level. Emission controlled engines are standard.

Easy maintenance in every detail
Daily service points are few and easily accessible. The position of the engine on the rear module and the large, easy to-open engine hoods contribute to easy and fast service. The service info displayed directly on the drivers LCD also facilitates service jobs. With maintenance free steering hitch and steering cylinder, very few grease nipples are found on these machines. At the same time, the periods between servicing have been extended. Corrosion-free water tank and sprinkler tubes, in combination with easily accessible filters, ensure reliability and easy maintenance. Hydraulic hoses can be replaced in individual segments, avoiding the need to fit a full length. Drum shock absorbers also benefit from easy replacement – there is no need to remove the forks or the drums.

Your vision is our mission
Visibility is one of the most important issues for making an asphalt roller efficient and safe to operate. Therefore the machines have full visibility of drum edges, drum surfaces and sprinkler nozzles. The 4-post ROPS and 1 x 1 meter visibility also give a minimum view obstruction both forward/backward and sideways.
Attention to detail - the base of perfection

All Dynapac rollers benefit from solid experience, proven concepts – and advanced technology research. And when we introduce a line-up of new features, our first concern is real-life improvements for our users. Easy handling and servicing, and a clear focus on lasting performance.

Night work is easy. Experience the difference with Night Working Kit with drum edge light, drum surface light and snake light for the operator.

Compaction data that make the machine versatile. A wide frequency and amplitude range provides optimization for any layer thickness.

The unique offset drum and articulated steering give supreme maneuverability.

Service-friendly, roomy engine compartment. The location on the rear module reduces noise and heat for the operator.

Combination rollers
All rollers from CC224HF up to CC524HF can be ordered in Combi versions (with exception for CC384HF) to further improve top layer texture. The Combi module is placed rear and is combined with offset steering. Standard equipment includes emulsion sprinkler system, handles and footsteps for tank filling, quick-release of scrapers and cocoa mats for easy cleaning. Heat covers are available as option. Rubber coated drum is available as an option for CC224CHF.
Large water capacity increases operating time between water refill breaks.

Heavy-duty maintenance-free steering hitch high mounted to allow trouble-free access for engine and water tank maintenance.

The swiveling operator’s platform allow a 180° turn of seat, instruments and levers in order to keep the operator in full control.

Optional DCA-A helps you do a perfect job.

Open platform, ROPS and two different cab types are available as option, always with the sliding and swiveling operator’s module.

The unique design ensures full visibility of drum surfaces, sprinkler nozzles and drum edges.

Compact power engine
A choice between diesel engines fulfilling Stage IIIA/T3 and Stage IIIB/T4i offers impressive power reserves and significant operation benefits. Easy cold starting, low noise, rapid diagnostics and faster load acceptance are just some of them.

Joint cutting disc
The edge press strengthens the asphalt edge, and can also be equipped with the joint cutting disc for asphalt edge trimming prior to jointing.

Dynapac offers rollers with split drums. This makes operating easier in confined spaces and reduces the risk of cracks in the asphalt.

Back-up sprinkler system means less breaks for cleaning of nozzles and includes a backup sprinkler pump.
Take the guesswork out of compaction

➤ Dynapac Compaction Analyzer

Compaction is precision work. In order to reach the right density and obtain the right surface texture, a series of parameters must be monitored. By using the Dynapac DCA-A compaction analyzer this delicate task becomes a lot easier. Graphic, real-time display of temperature and number of passes, plus the support of GPS positioning, help you in making every job world class.

Furthermore, DCA-A provides full statistics, documentation and thorough data for quality analysis. The rolling pattern can be played back and all results printed on paper or to a PDF file. It is easy to understand how these benefits improve quality and clients’ trust in your capabilities. The DCA-A analysis tool takes the guesswork out of compaction.

➤ A system that helps you do a perfect job

<table>
<thead>
<tr>
<th>Compaction analysis</th>
<th>Compaction Documentation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Temperature - first and last pass</td>
<td>Number of passes</td>
</tr>
<tr>
<td>Number of passes at each position</td>
<td>Surface temperature (core temperature)</td>
</tr>
<tr>
<td>inside and outside the temperature range</td>
<td>Graphic display of the temperature and the number of passes</td>
</tr>
<tr>
<td>Playback of the rolling pattern</td>
<td>Background material for the quality analysis</td>
</tr>
<tr>
<td>Full statistics</td>
<td>Support for continuous improvements of the paving, rolling</td>
</tr>
<tr>
<td>Print to paper or export to PDF</td>
<td>patterns and overall compaction results</td>
</tr>
</tbody>
</table>

The pass-count and asphalt temperature are presented in real-time on the operator screen - providing vital information for a successful compaction job.
Dynapac’s new rollers CC224HF and CC234HF set new standards in low fuel consumption. Compared with already fuel efficient predecessors, CC222HF and CC232HF, the new rollers use up to 24% less fuel. This is Dynapac's contribution to customers who care about operating costs and the environment.

When developing the new CC rollers we had a number of important objectives in mind. Designing high performance rollers that are easy to drive and easy to service was important. Equally important was the goal to reach ambitious targets in terms of low fuel consumption and minimized environmental impact.

Emission controlled engines stage IIIA/T3 or IIIB/T4i can be chosen for CC224HF/CC234HF. On top of that we have managed to make a large reduction in fuel consumption. When we did the comparison we used a realistic mix of different working modes.

**How did we reduce the fuel consumption so much?**

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 revolutions after 10 seconds in neutral

The CC224HF and CC234HF are also amongst the most productive rollers on the market. When using our optimising software tool PaveComp and/or our documentation system DCA-A, your results will be even better with regards to compaction, economy and lower environmental impact.
Choose between

3 different machine types
Off-set drums or not
Short or extended frames
2 different engines

**Svecific details:**

**CC224HF - CC384HF:**
- Cummins QSB 3.3 stage IIIA
  - 74 kW/100 hp
  - or
  - Deutz TCD 3.6 stage IIIB
  - 75 kW/102 hp

**CC424 and CC524:**
- Cummins QSB 4.5 stage IIIA
  - 93 kW/132 hp
  - or
  - Cummins QSB 4.5 stage III B/T4i
  - 97 kW/125 hp

**CC624:**
- Cummins QSB 4.5 stage IIIA
  - 113 kW/152 hp
  - or
  - Cummins QSB 4.5 stage III B/T4i
  - 119 kW/161 hp

*Standard on combi and split drum*

*Only for CC524HF and CC624HF*
3 different operator’s platforms

**Asymmetric Comfort Cab:**
- Assymmetric Comfort cab: & Assymmetric cab, including
- Integrated ROPS
- Operators station, sliding and rotating
- Seat belt 2"
- Heating system
- Frequency meter/ impactometer
- 3 speed fan system with filter
- Floor mat
- Lights working, H3 (Halogen)
- Panel covers, interior
- Inner roof: Noise absorbing
- Internal rear view mirror
- Hooks: Two
- Charger socket: One 24V
- Interior light
- Steering wheel: Adjustable
- Storage: Rear cover and side panel netbag
- Cup and can holder
- Tinted safety glass
- Openable side windows
- Wipers and washers: Front/rear also on the asymmetric part
- ACC (comfort cab only)
- Operator’s seat, luxury (comfort cab only)
- Rotating beacon
- Rear view mirrors, traffic
- Radio with CD-player (comfort cab only)
- Back-up alarm
- Sprinkler system additional

**Asymmetric Cab:**
- Roll over protection structure
- Floor mat and anti-slip
- Panels: Back cover
- Lights working, H3 (Halogen)
- Charger socket: One 24V
- Steering wheel: Adjustable
- Frequency meter/ impactometer
- Storage: In back cover
- Operators station, sliding and rotating
- Operator’s seat, suspension
- Seat belt 2"
- Hooks: Two
- Vandal cover
- Rotating beacon
- Lunch box holder
- Back-up alarm
- Sprinkler system additional

**ROPS platform including**
- Roll over protection structure
- Floor mat and anti-slip
- Panels: Back cover
- Lights working, H3 (Halogen)
- Charger socket: One 24V
- Steering wheel: Adjustable
- Frequency meter/ impactometer
- Storage: In back cover
- Operators station, sliding and rotating
- Operator’s seat, suspension
- Seat belt 2"
- Hooks: Two
- Vandal cover
- Rotating beacon
- Lunch box holder
- Back-up alarm
- Sprinkler system additional

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

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**Options CC224 - CC624**

- Asphalt temperature meter
- Biodegradeable hydraulic fluid
- Chipspreader (only for CC224HF - CC334HF)
- Edge press, front mounted
- First Aid Kit
- Joint cutter disc, 80/150mm
- Lights drum edge
- Rear view mirrors, process view
- Special color (one ot two colors)
- Tool set
- Two watertanks for ext. frames*
- Water tank cover, lockable
- CE package compaction parameters and noise supression
- Service kit 50/500/1000 h
- Hearing protectors
- Decal risk location (GOST)
- Lights, direction, side mounted
- Lights, driving
- Lights, licence plate
- Steering, emergency
- Slow moving vehicle sign
- Foot rest
- Rotating beacon, ignition controlled
- Heat cover wheel (for Combi only)
- Dynapac Compaction Analyzer
- Tachograph
- Tachograph prep.
- Fire extinguisher
- Seat belt 3”

* only for CC524HF and CC624HF
## Technical data

### Drum width, mm

<table>
<thead>
<tr>
<th></th>
<th>CC224HF</th>
<th>CC234HF</th>
<th>CC324HF</th>
<th>CC334HF</th>
<th>CC384HF</th>
<th>CC424HF</th>
<th>CC524HF</th>
<th>CC624HF</th>
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</thead>
<tbody>
<tr>
<td>Width</td>
<td>1500</td>
<td>1500</td>
<td>1730</td>
<td>1730</td>
<td>1730</td>
<td>1730</td>
<td>1950</td>
<td>2130</td>
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### Masses

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<th>CC624HF</th>
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<tbody>
<tr>
<td>Operating mass, kg</td>
<td>7,700</td>
<td>8,100</td>
<td>8,100</td>
<td>9,000</td>
<td>9,400</td>
<td>10,200</td>
<td>11,300</td>
<td>12,000</td>
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<tr>
<td>(incl. ROPS)</td>
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<td></td>
<td></td>
<td></td>
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<td></td>
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<tr>
<td>Module mass, kg</td>
<td>3,850/3,850</td>
<td>4,050/4,050</td>
<td>4,075/4,075</td>
<td>4,500/4,500</td>
<td>4,700/4,700</td>
<td>5,100/5,100</td>
<td>5,650/5,650</td>
<td>6,000/6,000</td>
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<tr>
<td>(front/rear)</td>
<td></td>
<td></td>
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### Traction

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<tr>
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<th>CC424HF</th>
<th>CC524HF</th>
<th>CC624HF</th>
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<tbody>
<tr>
<td>Speed range</td>
<td>0-12</td>
<td>0-12</td>
<td>0-12</td>
<td>0-12</td>
<td>0-12</td>
<td>0-12</td>
<td>0-12</td>
<td>0-12</td>
</tr>
<tr>
<td>Vertical oscillation</td>
<td>±7°</td>
<td>±7°</td>
<td>±7°</td>
<td>±7°</td>
<td>±7°</td>
<td>±7°</td>
<td>±7°</td>
<td>±7°</td>
</tr>
<tr>
<td>Theor. gradeability</td>
<td>42%</td>
<td>39%</td>
<td>37%</td>
<td>35%</td>
<td>37%</td>
<td>45%</td>
<td>40%</td>
<td>36%</td>
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### Compaction

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<th>CC624HF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Centrifugal force, kN (high/low amplitude)</td>
<td>78/67</td>
<td>72/59</td>
<td>90/75</td>
<td>79/64</td>
<td>90/75</td>
<td>139/92</td>
<td>154/101</td>
<td>166/106</td>
</tr>
<tr>
<td>Nominal amplitude, mm (high/low)</td>
<td>0.7/0.3</td>
<td>0.5/0.2</td>
<td>0.7/0.3 mm</td>
<td>0.5/0.2</td>
<td>0.7/0.3</td>
<td>0.8/0.3</td>
<td>0.8/0.3 mm</td>
<td>0.8/0.3</td>
</tr>
<tr>
<td>Static linear load kg/cm (front/rear)</td>
<td>25.7/25.7</td>
<td>27.0/27.0</td>
<td>23.6/23.6</td>
<td>26.0/26.0</td>
<td>27.2/27.2</td>
<td>29.5/29.5</td>
<td>29.0/29.0</td>
<td>28.2/28.2</td>
</tr>
<tr>
<td>Water tank, l</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>750</td>
<td>900</td>
<td>900/1150/1400</td>
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### Engine

#### Manufacturer/Model

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</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Cummins QSB 3.3 IIIA/T3</td>
<td>Water cooled turbo Diesel with After Cooler</td>
<td>Cummins QSB 4.5 IIIA/T3</td>
<td>Water cooled turbo Diesel with After Cooler</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated power, SAE J1995</td>
<td>74 kW (99 hp) @ 2,200 rpm</td>
<td>93 kW (125 hp) @ 2,200 rpm</td>
<td>113 kW (152 hp) @ 2,200 rpm*</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Fuel tank capacity, l</td>
<td>130</td>
<td>240</td>
<td>240</td>
<td></td>
<td></td>
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<th>CC624HF</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type</td>
<td>Deutz TCD 3.6 III BT4i</td>
<td>Water cooled turbo Diesel with After Cooler</td>
<td>Cummins QSB 4.5 III BT4i</td>
<td>Water cooled turbo Diesel with After Cooler</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rated power, SAE J1995</td>
<td>75 kW (100 hp) @ 2,200 rpm</td>
<td>97 kW (130 hp) @ 2,200 rpm</td>
<td>113 kW (152 hp) @ 2,200 rpm*</td>
<td></td>
<td></td>
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<tr>
<td>Fuel tank capacity, l</td>
<td>130</td>
<td>240</td>
<td>240</td>
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</tbody>
</table>

*CC624 only

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