Tandem Asphalt Rollers
CC224HF / CC234HF / CC324HF / CC334HF
CC384HF / CC424HF / CC524HF / CC624HF
CC224CHF / CC234CHF / CC324CHF / CC334CHF
CC424CHF / CC524CHF

Part of the Atlas Copco Group
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 engine power, operator’s platform and air conditioning.

- **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 can be provided through the optional DCA-A system.

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 alternative horse power ratings makes fuel consumption low and efficient.

Infinite adjustable maximum speed is standard.

Steering system with flexibility
All machines can be equipped with the optional off-set drum. This in combination with the asymmetric cab make the machines very easy to operate.
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, no 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 Xenon lights and 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.

A range of engine power ratings helps you optimize power and reduce fuel consumption.

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.

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

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

Optional DCA-A helps you do a perfect job.

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

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

Large water capacity increases operating time between water refill breaks.

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

Compact power engine
The new Cummins QSB 3.3 low emission engine (Tier 3 / Stage IIIA) offers impressive power reserves and significant operation benefits. Easy cold starting, low noise, rapid diagnostics and faster load acceptance are just some of them.

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

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.
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

Compaction analysis
- Temperature: first and last pass
- Number of passes at each position inside and outside the temperature range
- Playback of the rolling pattern
- Full statistics
- Print to paper or export to PDF

Compaction Documentation
- Number of passes
- Surface temperature (core temperature)
- Graphic display of the temperature and the number of passes
- Background material for the quality analysis
- Support for continuous improvements of the paving process, rolling patterns and overall compaction results

The pass-count and asphalt temperature are presented in real-time on the operator screen - providing vital information for a successful compaction job.
24% less CO2 emissions with CC224HF/CC234HF

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 / Tier 3 are standard on 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.
Top performance pays back

Total cost of ownership - optimising more than the price tag

Dynapac has launched a new easy-to-use tool for all roller models; Dynapac CostCtrl.
This tool helps customers to understand and control costs and to get a better sense of the total cost of ownership. With Dynapac CostCtrl, you can easily estimate cost based on various parameters. Used in combination with PaveComp or CompBase optimization tools, CostCtrl helps you gain better control of your complete cost picture.

**Investment cost**
The purchase price is only one, relatively small, part impacting the total cost. Also keep in mind that Dynapac rollers bring one of the best resale values when selling or trading your Dynapac roller.

**Maintenance cost**
Consists of regular check-ups like change of oils and filters. Dynapac always strives to use components that give the lowest amount of maintenance, and this keeps the number of check-ups as low as possible.

**Wearing cost**
Consists of changing wear parts like rubber elements, some hoses, lamps, gas springs, wipers, scrapers etc. Since Dynapac always use high quality wear parts, the life time and changing intervals are long. Customers using Dynapac original spare parts will not be disappointed.

**Fuel cost**
The expenses for fuel can be a big part of your total cost. Since Dynapac’s rollers are equipped with a very efficient hydraulic system, your fuel cost can be kept at a low level.

**Operator cost**
The operator is always a very big part of the total cost. Working a Dynapac roller, the operator enjoys good ergonomics and an easily operated roller, making him more efficient.

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The purchase of a high-class compactor definitely represents a major investment for all customers. However, this represents only a portion of the total cost of ownership that also includes maintenance, fuel and operator costs.

At Dynapac we focus on life-cycle cost. No surprise perhaps, our products are designed and manufactured for an impressive life at your service. And in combination with our standards on uptime, performance and efficiency, Dynapac will make a difference to your bottom line.

Simply stated, to your operation, Dynapac compactors add performance, precision and quality whilst reducing maintenance costs and unplanned production stops.

Add to that a global network of professional service technicians and a high efficient distribution network. No matter if your operation is road building, dam construction or industrial sites – we know your business, and what makes it profitable.

► Bottom line performance
Trouble-free maintenance and long service intervals safeguard your uptime.
Make your Dynapac truly yours

Standard Equipment
Automatic Vibration Control (AVC)
Automatic Water Control (AWC)
Amplitudes dual
Battery switch
Brake release
Cocoa mats for the wheels (Combi)
Cup and can holder
Documentation (Manuals), one set
Electronic Drive Control (EDC) with infinite adjustable maximum speed
Emergency stop
Emulsion sprinkler system (Combi)
Engine temperature display
Filters for sprinkler system
Flow divider (for split drums)
Fuel level display
High frequency vibration
Horn
Hour meter
Hydraulic checkpoints
Hydraulic fluid temperature display
Interloc system
Key master and start
Lifting points
Operators platform, shock mounted
Parking brake
Scrapers, spring loaded and foldable
Seat, suspended for platform and cab
Speedometer
Sprinkler extra flow button
Sprinkler system pressurized
Sprinkler timer
Steering wheel, tiltable
Tachometer display
Hydraulic fluid temperature display
Tie down points
Towing valve
Vibration quick stop
Vibration shut off - front or rear drum
Voltage meter display
Water level display
Warning - Air cleaner
Warning - Brake
Warning - Engine temperature
Warning - Engine oil pressure
Warning - Clogged Hydraulic fluid filter
Warning - Hydraulic fluid temperature
Warning - Low charge
Warning - Low fuel level
Warning - Low water level

Optional Equipment
Asphalt temperature meter
Back up alarm
Biodegradable hydraulic fluid
Cab, asymmetric, ROPS
Cab, symmetric, ROPS
Canopy
Cocoa mats for drums
Compaction Analyzer - DCA-A
Edge press device prepared for joint cutter
First aid kit
Frequency meter/Impactometer
Heat cover for combi wheels
Lights, driving, right hand traffic
Lights, driving, left hand traffic
Lights, working, front/rear for cab/ROPS/canopy
Lights, night working, xenon
Off set drums, rear pivot steering
Process mirrors
Rear view mirrors, external
ROPS, 4 posts, with roof and seat belt
Rotating beacon
Seat, luxury for platform and cab
Slow moving vehicle sign
Sprinkler, additional bars
Tachograph
Tool set
Tool box
Towing eyelets front & rear
Vandal cover for instrument panel (not cab)
Water tank cover, lockable

Standard for cab
Air filtering system
Fan, fresh air (3-speed)
Interior light
Rear view mirror, internal
Seat belt
Safety glass, tinted
Side windows, openable
Heater
Wiper with washer, front/rear

Options for cab
Air condition (AC), basic cooling function
Air condition (ACC), automatic climate control
Radio & CD player
Rear view mirrors, external
Seat, luxury for cab

Taking care
Service Kit 50 Hrs.
Service Kit 250/750 Hrs.
Service Kit 500 Hrs.
Service Kit 1000 Hrs.
Shock Absorber Kit
Steering Hitch Kit
Drum Rotation Kit
Eccentric Shaft Kit

Operating mass (incl. ROPS) kg
Drum width, mm
Static linear load, kg/cm
Amplitude, mm
Frequency, Hz

<table>
<thead>
<tr>
<th>Model</th>
<th>Operating Mass</th>
<th>Drum Width</th>
<th>Static Linear Load</th>
<th>Amplitude</th>
<th>Frequency</th>
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