

Tandem Asphalt Rollers

CC424HF / CC524HF / CC624HF

DYNAPAC

Part of the Atlas Copco Group



Advantage Dynapac.

Consider your job well done!

The rollers are based on solid experience and tested concepts. At the same time Dynapac has introduced a number of features to make handling and servicing easy, ensuring maximum performance.

We have put the operator in full control. The ergonomics are optimised, and the clear control panels gives important information. At the same time the machines

offers unique supporting features. One example is 'soft' starting and stopping to prevent unevenness or cracking in the asphalt layers. The optional DCA-A helps the driver to make the optimum number of passes at the right temperature.

You can consider the job well done with Dynapac new High Frequency Tandem Asphalt Rollers.

Xenon high-intensity lights as an option makes night work an easy task

Unique offset drum in combination with articulated steering gives a very flexible steering system

Optimum engine power for efficiency and lower fuel consumption

Automatic two speed gear ensures correct gear in all situations

Service friendly. Big engine compartment placed on the rear module also means less noise and heat for the operator's platform





All instruments and controls are always in front of the operator

Full operator visibility of both drum surfaces, drum edges, scraper bars and spray nozzles for a safe operation

Large capacity central water tank for efficient operation and less refill stops

Compaction data that make the machine versatile. High frequency and low amplitude for thin layers and high amplitude for thick layers

Unique Characteristics

Three new rollers. For top quality results.



These tandem roller models are designed to appeal to owners, operators and service crews as well as to offer environmental benefits. All models have high frequency vibration as standard.

Maximum Functionality

A number of new features increases the rollers' serviceability.

A double pump vibration system eliminates need for a vibration valve. This makes it more efficient, easier to service and reduces fuel consumption.

As option, we offer two additional smaller water tanks (front/rear) added to the main tank, they all provide a total of 370 gallons.

Top quality results

With the Dynapac rollers you achieve high quality surface finish through operational features such as 'soft' starting and stopping to prevent unevenness or cracking in the asphalt mat; allowing even an unskilled roller operator to start and stop without leaving marks. As a safety feature, the machine will drop out of the 'soft' mode and brake immediately if the F/R lever is moved quickly, signalling the need for an emergency stop.

The machines are designed for use on both thin and thick asphalt lifts.

The operator in control

One of the ways of achieving high quality compaction is to optimise the ergonomics, ensuring that operators have clear visibility of the operation and comfortable access to the roller controls. All models are designed with a visibility standard providing an unobstructed view (front/rear/sides) from the operator seat.

We offer optional equipment on all of these roller models as are enclosed cabs, heater and airconditioning.



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 mix.

Thin layers with high stone content cool off quickly, and need to be compacted quickly, Using high amplitude may risk crushing of the aggregate, Dynapac recommends using high frequency and low amplitude under those conditions.



Powerful engine

Each of the new models is powered by a Cummins QSB 4.5 water-cooled turbo-diesel engine with after cooler. The rated engine power are 110hp or 125hp on the CC424HF; 125hp or 150hp on the CC524HF and CC624HF. The roller weight is evenly distributed between the front & rear modules.

Dynapac's new engine idling system allows it to automatically idle if roller is in neutral. This system provides excellent fuel savings.



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.



Steering System with flexibility

All machines can be equipped with the optional 13.75 inches of drum offset (crab steering) for rolling close to curbs and other objects.



Dynapac knowledge

Unique compaction control

The optional DCA-A helps the roller operator to keep track of the number of passes and the rolling temperature.

The DCA-A also gives full documentation of the compaction work.

Read more on page 7.





Ergonomics

Outstanding operator comfort

We have equipped the machines with a super stable seat and steering module and automatic two speed gear.

The engine is placed on the rear module for less heat and noise to the operator.

The very low vibration level on the operator's platform also adds to the comfort for the operator. An enclosed cab with heat and airconditioning is available as an option.

The noise level is very low, implying less risk of injury caused by noise or fatigue during long working days.



Safety

Excellent operator visibility

Visibility is one of the most important issues for making an asphalt roller efficient and safe to operate. Therefore the machines have got full visibility of drum edges, drum surfaces and sprinkler nozzles. The 4-post ROPS allows complete and excellent visibility in front, to the rear and to both sides of the roller.

Dynapac's proven safety criteria

A very low center of gravity gives the rollers excellent stability. All of the machines are fitted on both drums with "fail-safe" brakes that are automatically applied if the engine stops or in the event of hydraulic or electric faults in the brake circuits.

A safety switch fitted in the operator seat prevents inadvertent activation of the F&R lever. The operator must be seated to enable the F&R lever to be activated.

The main power switch and well protected electric cables minimise the risk of fire. ROPS, seat belt and backup alarm are standard equipment.

Enclosed cab with integrated ROPS and airconditioning are optional.

Quick "panic" handling of the F&R lever automatically activates the emergency braking mode.



Environment

Low fuel consumption

Many of the enhancements bring environmental benefits through reduced fuel consumption and a quiet operation. Efficiency enhancements have saved some 11 hp in the operation of a typical model in the range, with consequent improvements in the operating costs and noise level.

Biodegradable hydraulic fluid is available as an option. The automatic idling system and optional engines keep exhaust emission on a low level.

Emission controlled engines are of course standard.



Maintenance

Designed to simplify maintenance

The position of the engine on the rear module and the large, easy to-open engine hoods with all service points located on one side of the machine contribute to easy and fast service.

The service info displayed direct on the drivers LCD monitor 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.

Excellent serviceability

To keep servicing even more simple, filters are concentrated to one side for ease of replacement. 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 frame or the drums.

DCA-A • Dynapac Compaction Analyzer for Asphalt

A system that helps you do a perfect job



The Dynapac Compaction Analyzer for Asphalt (DCA-A) is the perfect tool for operators. It provides accurate time information about the rolling operation, allowing the next pass to be planned, taking into account the asphalt temperature of each pass.

Tracking the number of passes makes it easy for the operator to maintain control of the pattern and achieve the best results. Better planning of the rolling operation also ensures jobs are carried out more efficiently, resulting in using less fuel.

The DCA-A allows the contractor to document the compaction work in order to analyze the rolling pattern and number of passes on the compacted surface.

The results are best used to optimize the usage of the compaction equipment and to assure the compaction results. Knowing that the compaction is carried out properly is the key to avoiding penalties and achieving bonuses instead.

The DCA-A software is an option for articulated tandem rollers. It can also be retrofitted to virtually all Dynapac roller models.

Compaction control with DCA-A

COMPACTION DOCUMENTATION

Register the number of passes (static/vibratory)

Measure and register the surface temperature (calculate core temperature.)

Graphic display of the temperature and the number of passes (real time in the roller)

Documentation of the compaction process

Background material for the quality analysis

Support for continuous improvements of the paving process, rolling patterns and overall compaction results

ANALYSIS OF THE COMPACTION

Temperature- first and last pass

Number of passes (vib/stat) at each position inside and outside the temperature range

Playback of the rolling pattern

Full statistics

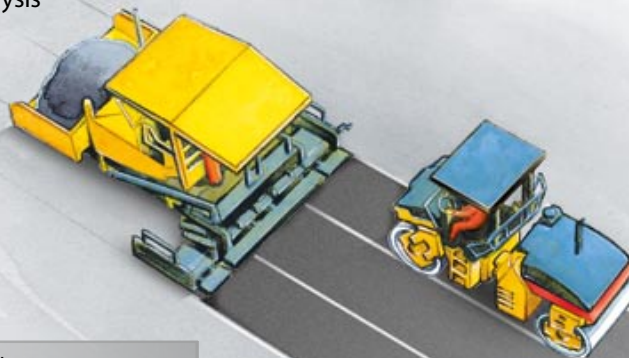
Print-paper or export to PDF



The pass-count and asphalt temperature are presented in real-time on the operator screen-providing vital information for a successful compaction job



The GPS-receiver provides accurate positioning of the roller



Tailormade machines.

Standard Equipment

Automatic Vibration Control	Hydraulic checkpoints	Tachometer display
Automatic Water Control	Interlok operator seat safety	Hydraulic fluid temperature display
Amplitudes dual	Interloc system	Tie down points
Asphalt temperature meter	Key master and start	Vandal cover for instrument panel (not cab)
Back up alarm	Lifting points	Vibration quick stop
Battery switch	Lunch box holder	Vibration shut off - front or rear drum
Brake release	Operators platform, shock mounted	Voltage meter display
Cup and can holder	Parking brake	Water level gauge
Documentation (Manuals), one set	Seat, suspended for platform and cab	Warning - Air cleaner
Electronic drive control	ROPS and seat belt	Warning - Brake
Emergency stop	Sliding and swivelling operators station	Warning - Engine temperature
Engine temperature display	Spring loaded foldable drum scrapers	Warning - Engine oil pressure
Filters for sprinkler system	Sprinkler system pressurized	Warning - Clogged Hydraulic fluid filter
Frequency meter	Speedometer and impactometer	Warning - Hydraulic fluid temperature
Fuel level display	Sprinkler backup	Warning - Low charge
High frequency vibration	Sprinkler extra flow button	Warning - Low fuel level
Horn	Sprinkler timer	Working lights
Hour meter	Steering wheel, tiltable	

Optional Equipment

Biodegradeable hydraulic fluid	Heat cover for combi wheels	Slow moving vehicle sign
Cab, asymmetric, ROPS	Lights, driving, right hand traffic	Tachograph/Tool set
Cab, symmetric, ROPS	Lights, driving, left hand traffic	Towing valve
Canopy	Lights, night working, xenon	Tool box
Cocoa mats	Off set drums, rear pivot steering	Towing eyelets front & rear
DCA-A	Rear view mirrors, external	Water tank, extra front (CC524/ 624)
Edge press device prepared for joint cutter	Rotating beacon	Water tank, extra front and rear (CC524/ 624)
First aid box	Seat, luxury for platform and cab	Water tank cover, lockable

Standard for cab

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

Optionals for cab

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

Standard equipment/Optional equipment may vary for different machines and markets.

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