

# DYNAPAC TANDEM ASPHALT ROLLERS

Dynapac CC2200/CC2300/CC3200/CC3300/CC3800/  
CO2200



**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.

# EFFICIENCY IN MIND

## 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 are 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 liters for the CC2200 - CC3800, 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 1x1 m 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.

“  
THE BASE OF EXCELLENCE.  
DYNAPAC WILL ALWAYS HELP YOU TO  
REACH PERFECTION.”



## UNIQUE CHARACTERISTICS



### 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.

### 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.

As an alternative for thin asphalt layer compaction, bridge compaction, compaction near foundations and concrete structures Dynapac also offers variants with oscillation on the rear drum. ....



### STEERING SYSTEM WITH FLEXIBILITY

All machines can be equipped with the optional offset 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 models are powered by Cummins QSB 3.3 Stage IIIA/T3, Deutz TCD 3.6 HT T4f and Deutz TCD 3.6 HT Stage V engines. 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.

**“The noise level is very low, enabling long working days without fatigue.”**



### **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.

### **ENVIRONMENTAL THINKING**

Environmental benefits are achieved through reduced fuel consumption and quieter operation. Efficiency enhancements have saved up to 8 kW/11 hp in the operation of a typical model in the range, with consequent improvements in the running costs and noise. Additional fuel savings up to 20% is achieved through our unique "ECOMode" concept. ECOMode is standard on the T4f and Stage V engine alternatives and we are also using the high efficient eccentrics and serial start up of the eccentric shafts for lowest possible energy consumption.

Biodegradable hydraulic fluid is optional. The automatic idling system keep exhaust emission on a low level.

### **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 x1 meter (3.2 x 3.2 ft) visibility also reduces obstruction both forward/backward and sideways.

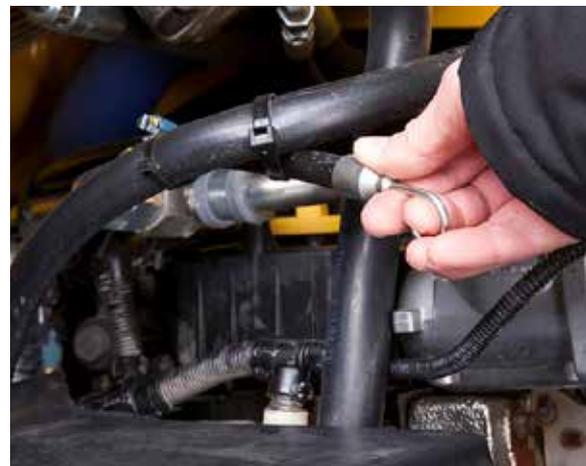
### **EASY MAINTENANCE IN EVERY DETAIL**

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.



# ATTENTION TO DETAILS - 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.

## 180 DEGREES

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

## VISIBILITY

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

## COMPACTION DATA

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

## BACK-UP SPRINKLER SYSTEM

Back-up sprinkler system means less breaks for cleaning of nozzles and includes a backup sprinkler pump.

## DUAL TEMPERATURE METER

Front and rear, now standard on US package.

## OFFSET DRUM

The unique offset drum and articulated steering give supreme maneuverability.

## WATER CAPACITY

Large water capacity increasing time between water



### EASY NIGHTWORK

Night work is easy thanks to LED working lights now being standard. Also experience the difference with Night Working Kit with drum edge light and drum surface light.

### Dyn@Lyzer

Optional Dyn@Lyzer helps you do a perfect job.

### OPERATOR PLATFORM

Comfort cab for your convenience, always with the sliding and swiveling operator's module.

### SPLIT DRUM ROLLER

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

### OSCILLATION DRUM ROLLER

Dynapac offers the CO2200 with rear oscillation drum as an alternative for thin asphalt layer compaction, bridge compaction, compaction near foundations and concrete structures.

### LOW EMISSIONS

The fuel efficient diesel engine alternatives with optional EcoMode (standard on T4 and Stage V engines achieve up to 20% reduction in fuel consumption).

### SERVICE FRIENDLY

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

### STEERING HITCH

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

Increases operator-refill breaks.

### COMBINATION ROLLERS

All rollers can be ordered in Combi versions 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 CC2200C.

### COMPACT POWER ENGINE

Diesel engine alternatives fulfilling Stage IIIA/ T3, T4 and stage V 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 20% reduction in fuel consumption is standard on the T4 and Stage V engines and available as option for the IIIA engine alternatives



### 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'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.

We can now offer the same advanced levels of control and documentation on both single drum vibratory rollers for soil compaction (the CA range) and tandem vibratory rollers for asphalt compaction (the CC/CG ranges).



## Two Level System

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

1. The first level is the Compaction Meter, now using  $E_{VIB}$  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.

2. The second level of the system is the Dynapac 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.

## BENEFITS WHEN USING THE DYN@LYZER SYSTEM

- No unnecessary compaction of already completed areas
- The risk of under or over compaction is eliminated
- The compaction work can be focused on specific areas that require additional compaction
- Each stage of the compaction work is documented and presented to the operator in real-time
- 100% area coverage compared to only a fraction of a percent with traditional compaction control methods

A much greater opportunity to achieve:

- First-rate compaction results with maximum uniformity in terms of the bearing strength of each layer
- Simplified quality assurance
- More efficient compaction
- The best possible economy for both contractors and clients

## BIG FUEL SAVINGS WITH ECO MODE & OPTIMIZATION OF RELATED SYSTEMS

### 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 and the CG2300. As a result, we can now confirm that in EcoMode, all the rollers consume 15–20% less diesel fuel than our previous range without EcoMode.

We are one of very few manufacturers offering three alternative emission levels Stage IIIA/T3, T4 and Stage V. This makes it possible to choose lowest possible emission level related to the fuel quality that is available.



For the T4 and Stage V engine versions we are using the high efficient eccentrics, serial start up of the eccentric shafts and ECO mode as standard for lowest possible energy consumption.

### GREEN ROLLERS

When using the EcoMode system the percentile saving is higher during compaction than during idling and transportation. Combine the 15-20% fuel savings with biodegradable hydraulic oil and very low noise levels and the result is “green” rollers.

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## 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
- High efficient eccentrics
- Serial start up of the drum vibration

The CC2200 and CC3800 are also amongst the most productive rollers on the market. When using our optimizing software tool PaveComp and/or our documentation system Dyn@Lyzer, your results will be even better with regards to compaction, economy and lower environmental impact.





## Machine Types

Standard drums

Combi

Split drums

## Off-set drums or not

Standard on combi and split drum

## Engine

IIIA/T3

T4

Stage V



## 3 different operator's platforms

### Asymmetric Cab

- Integrated ROPS
- Operators station, sliding and rotating
- Seat belt 3"
- Heating system
- Frequency meter/ impactometer
- 3 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: 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
- Rotating beacon
- Rear view mirrors, traffic
- Back-up alarm
- Sprinkler system additional

### Asymmetric Comfort Cab



**Asymmetric Cab features +**  
ACC  
Radio with Blue Tooth  
Operator's seat, luxury

### 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: In back cover
- Operators station, sliding and rotating
- Operator's seat, suspension
- Seat belt 3"
- Hooks: Two
- Vandal cover
- Rotating beacon
- Lunch box holder
- Back-up alarm
- Sprinkler system additional
- Rotating beacon
- **Selectable options:**
- Rear view mirrors, traffic

## Options CC2200 - CC3800

Asphalt temperature meter  
Biodegradable hydraulic fluid  
Chipsreader  
Edge press, front mounted  
First Aid Kit  
Joint cutter disc, 80/150 mm (3.15/6 in)  
Lights drum edge  
Rear view mirrors, process view

Special color (one or two colors)  
Tool set  
Water tank cover, lockable  
CE package compaction parameters and noise suppression  
Service kit 50/500/1000 h  
Hearing protectors  
Decal risk location  
Lights, direction, side mounted

Lights, driving  
Lights, licence plate  
Steering, emergency  
Slow moving vehicle sign  
Foot rest  
Heat cover wheel (for Combi only)  
Tachograph  
Tachograph prep.  
Fire extinguisher



# SERVICE COMMITTED TO YOUR FUTURE

## TRAINING

Dynapac Road Construction Equipment puts a lot of focus on development of local competence within our customer centers and dealers. With many years of experience at our production facilities in handling Road Construction Equipment we have developed training packages that allows our service technicians as well as our customers to develop competence in both equipment application and maintenance. Please check our website for suitable training program or ask our local representative.

**Find a suitable training at [dynapac.com / training](https://www.dynapac.com/training)**

## ALL-IN-ONE BOX KITS

An all-in-one box, tailored to match your equipment. The parts you need, when you need them! An all-in-one box contains all the parts required as part of the equipment's scheduled maintenance program. When installed by a Dynapac certified technician, you keep your downtime to a minimum and your equipment in top condition its entire life.

Easy to obtain and attractively priced, the most effective solution to keep your maintenance budget low.

**Find a suitable kit at [dynapac.com / kitsselector](https://www.dynapac.com/kitsselector)**

## EXTENDED WARRANTY & SERVICE AGREEMENTS

We have developed service agreements based on customer feedback, application know-how, field support knowledge, and product development experience. You can select a service agreement that meets your needs and budget, allowing you to get the most out of your equipment investment.

## UPGRADE KITS

Our upgrade kits are an economical solution that ensures your equipment is up to date with the latest Atlas Copco technology. Upgrades are based on proven technological solutions, readily available and easily installed. They will maximize your equipment's productivity and market value, as well as optimize your equipment's efficiency, to increase your profits.

## FLUIDS

- The right fluid optimizes machine performance
- Simplified selection process, less time spent on finding the right oil
- Delivery in a handy container, no need for transfer from an oil drum
- All-in-one delivery, less time spent on waiting and dealing with different suppliers
- One invoice, less administration

**Find a suitable fluid at [dynapac.com / fluidselector](https://www.dynapac.com/fluidselector)**

## TECHNICAL DATA

	CO 2200	CC2200	CC2300	CC3200	CC3300	CC3800
Drum width, mm	1500	1500	1500	1730	1730	1730
<b>MASSES</b>						
Operating mass, kg (incl. ROPS)	7,700	7,600	8,500	8,150	9,000	9,400
Module mass, kg (front/rear)	3,800/3,900	3,800/3,800	4,250/4,250	4,075/4,075	4,500/4,500	4,700/4,700
<b>TRACTION</b>						
Speed range km/h	0-12	0-12	0-12	0-12	0-12	0-12
Vertical oscillation, Degree	±7	±7	±7	±7	±7	±7
Theor. Gradeability, %	42	42	39	37	35	37
<b>COMPACTION</b>						
Centrifugal force, kN (high/low amplitude)	78/67	78/67	72/59	90/75	79/55	90/75
Oscillation force	103					
Nominal amplitude, mm (high/low)	0.7/0.3	0.7/0.3	0.5/0.2	0.7/0.3	0.5/0.2	0.7/ 0.3
Oscillation tang. amplitude	1.39					
Static linear load kg / cm (front/rear)	25.3/26.0	25.3/25.3	28.3/28.3	23.6/23.6	26.0/26.0	27.2/ 27.2
Vibration frequency, Hz (high/low amplitude)	48/67	48/67	48/67	48/67	48/67	48/67
Oscillation frequency	40					
Water tank, Liter, l	750	750	750	750	750	750
<b>ENGINE</b>			Cummins QSB 3.3 IIIA/T3		Cummins QSB 3.3 IIIA/T3	
Manufacturer/Type			74kW/99hp		74kW/99hp	
Rated power, SAE J1995			Deutz TCD 3.6 T4			
Manufacturer/Type			55 kW/74 hp			
Rated power, SAE J1995			Deutz TCD 3.6 Stage V			
Manufacturer/Type			55 kW/74 hp			
Rated power, SAE J1995						

### STANDARD FEATURES

Automatic vibration control (AVC)  
 Automatic water control (AWC)  
 Back-up alarm  
 Display: Engine temp, Fuel level, Frequency/impactometer, Hydr. temp  
 Speedometer, Tachometer, Voltage, VPM, Water level  
 Filters for sprinkler system  
 Hydraulic check points  
 Lunch box holder  
 Operator platform, shock mounted  
 Pressurized sprinkler system  
 ROPS canopy w/suspension seat & 3" seat belt  
 Rotating beacon

Sliding and swiveling operator's platform  
 Spring loaded scrapers  
 Sprinkler timer  
 Sprinkler system additional (Two bars per drum)  
 Steering wheel tilt able  
 Vandal cover for instrument panel  
 Vibration quick stop  
 Vibration shut off front or rear drum  
 Warning lights: Air cleaner, Brake, Clogged hyd fluid filter,  
 Engine oil pressure/temp, Hyd oil temp, Low charge, Low fuel  
 Working lights, Rops mounted

*Your Partner on the Road Ahead*



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