

Dynapac Pneumatic Tyred Rollers



Dynapac CP142, CP2100, CP2100W and CP2700

Sustainable Productivity

Atlas Copco

TOP DYNAPAC QUALITY

Dynapac presents a series of pneumatic tyred rollers in the 21 - 27 ton weight class including a 21 ton wide base tyre version. The CP2100, CP2100W and CP2700 incorporate several new features that will enhance efficiency, serviceability, operator comfort and the end result.

The unique cab design offers an outstanding workplace for the operator, and the dual-circuit braking system is another Dynapac-only feature.

With genuine Dynapac performance you can add the final touch to any project.

By the progressive design and striking new colour scheme makes it clear to everyone that you have chosen the right machine for the job.

The Dynapac

Performance

A pneumatic tyred roller is a specialized machine – with a wide range of applications. Finishing and sealing are obvious ones but soil compaction can also be carried out with top quality. A significant feature is the smooth start-stop procedure when changing driving direction. The air-on-the-run option and backup sprinkler further enhance the end result quality.

Safety

The braking system has two separate circuits which are able to maintain full braking capacity even if a damaged hose or other failure should disable one of the circuits.

Visibility and manoeuvrability are safety cornerstones. Dynapac's cab design, as well as the 4-post ROPS, minimizes obstruction of the operator's field of view. Also, precise steering and the powerful braking system keep the operator in control.

Ergonomics

In a Dynapac roller, the seat, steering wheel, dashboard and controls are built as an integrated unit, easily adjusted to personal preferences. The entire operator unit can slide and rotate in order to give the best visibility and working conditions possible. Add to that a wide range of options, including air condition or automatic climat control, as well as on-screen troubleshooting information.

A Dynapac is built for long-term productivity.

Environmental care

Every Dynapac is designed and built with focus on reduced environmental impact. Optimized hydraulic systems and engines reduce fuel consumption and emissions, and engines complying with Stage 3A are fitted as standard.

Biodegradable hydraulic fluid can be used, and it is easy to change engine liquids and hydraulic fluid without risk of spillage.

To reduce noise, the cooling fans are thermostatically controlled, and the entire machine produces a surprisingly low level of ambient noise.

Serviceability

Daily service points are few and the large hood and location of filters and filler caps make routine service tasks smooth and fast. And in order to assist the operator, service information is displayed on the dashboard LCD.

Several Dynapac models share many common components and sub-systems. This modularization simplifies stock keeping of spare parts and enable quicker service to end-users.



touch



ATTENTION TO DETAILS - THE BASE OF PERFECTION



The new CP2100/2700 rollers are under three metres in height with Cab or ROPS. This can be a key factor when transporting the roller between worksites.

The Dynapac DCA-A compaction analysis tool provides superior control.

Asymmetrical cab and ROPS with a wide range of optional equipment.

Choice of two travel speeds

Easy and fast drain of water ballast increases productivity.

Optional back-up sprinkler pump.

Modular design enhances serviceability.

Optional air-on-the-run for adjusting tyre pressures.

Dual-circuit braking system

The braking system has two separate circuits. This means that full braking capacity is maintained even if a damaged hose or other failure should disable one of the circuits.

CP2100W: Wide-base tyres

Wide-base tyres cause less lateral movement of the particles than standard tyres.

Balanced all the way

To achieve the same ground pressure on front and rear tyres, the ballast is distributed evenly, whether water, sand or steel is used.



OPERATOR FOCUS



ENGINE



COMPACTION



VIBRATIONS



SERVICEABILITY



Sliding and rotating operator's module increases visibility and comfort.

Engine type Stage 3A standard for all markets.

24 volts electrical system increases cranking capacity and general durability.

Optional steel ballast can be mounted in separate boxes under the frame.

Fully hydraulic propulsion reduces maintenance costs.

Value you can count on

A modular steel ballast system takes one-third the time to load and unload than ballast in the form of sand and water, which saves money.

Dynapac Compaction Analyzer: The optional DCA-A analyzer takes the guesswork out of compaction by monitoring asphalt temperature and the number of passes. Achieving the optimum density and surface texture in six passes instead of eight can save 25% in the cost of operating a roller and reduce the number of mandatory test spots by 50%. This means better results in less time, which increases profitability.

Modularization allows for faster service response and keeps maintenance costs low, and the common parts and systems between different product lines simplify technician training and inventory. In the short term, this means maximum uptime, productivity and profitability on the job. In the long term, a well-maintained roller has up to a 15% higher resale value.

The operator has a direct impact on compaction efficiency and cost. With one of the most modern operator platforms on the market and a dual-circuit braking system that maintains full braking operations even if one circuit is disabled, the operator works in comfort and safety – increasing productivity on the job.

Paving and compaction often take place at night, when working speed can drop by 20% due to poor visibility. Optional Xenon lights create a safer job site for nighttime operations and help maintain productivity.

An optimized hydraulic system and thermostat regulated cooling fans can reduce fuel consumption by 3-4% compared to a traditional system.

Comfort in mind

The operator unit is designed with operator comfort and safety in mind. The whole unit can slide and rotate to give the best visibility and working conditions possible.



DYNAPAC CP142 PNEUMATIC ROLLER

The highly cost-efficient CP142 is the smallest of Dynapac's series of pneumatic tyred rollers. This machine shares many of the features that make Dynapac a strong and reliable partner for all kinds of jobs.

Performance always comes first, and with our efforts in serviceability and ergonomics you can rest assured that efficiency and top quality results will last for the machine's entire lifetime. The CP142 is used for chip-sealing and to compact asphalt for sealing purposes, and to compact base, sub-base and stabilized soil.

VALUE FOR MONEY

Strong and smooth

Dynapac CP142 has power reserves enough to ensure effortless and efficient finishing and sealing. Add to that the smooth start-stop procedure and you have a trusty working companion for long efficient passes. The power source is the reliable Cummins QSB 3.3 T3A with an output of 74 kW or 99 hp, and the muffler and exhaust pipes are hidden under the hood for best possible visibility backwards.

Reliable performance

The ergonomic designed F/R handle, located on the right side of the operator's seat, makes operation smooth and easy. With full control of the engine power applied the surface quality and end result is maintained at top level. Perfect balance is provided by the unique modular ballast system. It gives you the advantage of direct visual control of the wheel loads.

Safe and secure

A clear view and undisturbed driver control are important properties both from a quality and a safety viewpoint. In the CP142 the operator seat is placed in the centre, and the ROPS is placed not to obstruct the view. The operator can keep an eye on the finest details – and stay aware of movements close to the machine.

Business and pleasure

In the Dynapac CP142, the operator's unit features a very user-friendly instrument panel. All indicators, switches and controls are clearly visible and easily reached. At Dynapac, we are convinced that efficient and profitable operation is directly connected to the quality of the driver's environment.

Environmental care

Protection of our environment and careful use of resources are keywords in all Dynapac development. We strive for reduced fuel consumption and emissions, and engines complying with Stage 3A are fitted as standard. Our machines allow the use of bio-degradable hydraulic fluids, and by cautious design we have reduced the risk of spillage.

Serviceability

The Cummins diesel engine is easily accessed, thanks to the large hood. The few daily service points, as well as filters and filler caps, are positioned for trouble-free and fast maintenance and routine service.

Service - easier than ever

Daily service points are few and within reach.





OPERATOR FOCUS



ENGINE



COMPACTION



VIBRATIONS



SERVICEABILITY

Modern instrument panel with indicators and switches are easy to reach.

The ergonomic designed F/R handle, located on the right side of the operator's seat makes operation smooth and easy.

Muffler and exhaust pipe are hidden under the hood for best possible visibility backwards.

Highly efficient cooling system keeps the engine and hydraulic system at the right temperature also when running at full speed.

Scrapers combined with cocoa mats keep the tyres clean and reduce the risk of picking.

Unique modular ballast system gives direct visual control of the wheel loads.

Ballast cartridges means less time and money spent on loading and unloading ballast in the form of sand and water. It will take only one third of the time.

DONEY



Technical Data

	CP142	CP2100	CP2100 W	CP2700
Operating mass, kg (incl. ROPS)	6000/12000	9 450	9 450	10 800
Max. operating mass, kg	14 000	21 000	21 000	27 000
Wheel load, std/max, kg/wheel	670/1560**	1350/3000*	1350/3000*	1200/3000**
Speed, km/h	0-18	0-20	0-20	0-20
Propulsion, rear	4 Wheels	4 Wheels	4 Wheels	4 Wheels
Water tanks, liters	500	415	415	415
Number of tires	5 front/4 rear	3 front/4 rear	3 front/4 rear	5 front/4 rear
Tyre pressure, kPa	450-630	250-850	250-850	250-850
Dimensions				
Compaction width, mm	1 760	1 800	2 280	2 300
Length, mm	3 580	5 180	5 180	5 480
Width, mm	1 760	2 032	2 265	2 332
Height, w/w.o ROPS, mm	2990/2295	2990/2260	2945/2215	2990/2260
Engine				
Model	Cummins	Cummins	Cummins	Cummins
Rated power, SAE J1995, at 2200 rpm, kW (hp)	QSB 3.3 74 (99)	QSB 3.3 T3 74 (99)	QSB 3.3 T3 74 (99)	QSB 4.5 T3 85 (110)

Standard Equipment CP142

ABackup alarm
 Ballast boxes, 6
 Cover, instrument panel
 Dual scrapers with cocoa mats
 Fuel gauge
 Horn
 Hour meter
 Hydraulic check points
 Hydraulic oil lever indicator
 Interloc system
 Key master and start
 Lifting and tiedown eyes
 Main battery switch
 Neutral start arrangement
 Pressurized sprinkler system
 ROPS (incl. seat belt) *
 Tool box
 Towing eyelets
 Tyres, 14 ply
 Vandal resistant instrument cover
 Warning lights for air cleaner, brake, engine temp, engine oil pressure, hydraulic filter, hydraulic oil temp and low fuel level

Optional Equipment CP142

Ballast boxes, 2 extra for full ballast
 Biologically degradable hydraulic oil
 Canopy (not for ROPS)
 Driving lights
 Rotating beacon
 Seat belts, 3"
 Slow Moving Vehicle sign (SMV)
 Spare wheel
 Sprinkler timer
 Tool kit
 Working lights

Standard Equipment CP2100/2700

Battery switch
 Choice of 2 travel speeds
 Documentation (Manuals), one set
 Drainage for water ballast
 Emergency stop
 Engine temperature display
 Fuel level display
 Horn
 Hour meter
 Hydraulic fluid temperature display
 Hydraulic checkpoints
 Hydrostatic drive with 2 hydraulic motors
 Interloc system
 Key master and start
 Lifting points
 Parking brake
 Redundant brake system
 Sliding and swiveling operator unit
 Speedometer
 Tachometer display
 Tilt steering wheel
 Tie down points
 Voltage meter display
 Warning – Air cleaner
 Warning - Brake
 Warning – Clogged hydraulic oil filter
 Warning – Engine temperature
 Warning – Engine oil pressure
 Warning – Hydraulic fluid temperature
 Warning – Low charge
 Warning – Low fuel level
 2 multi-disc brakes for parking and dynamic service brake

Std Equipment for Cab CP2100/2700

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

Optional Equipment CP2100/2700

Air on the run
 Asphalt temperature meter
 AWC (Automatic Water Control)
 Back up alarm
 Biodegradable hydraulic fluid
 Cab, asymmetric, ROPS
 Canopy
 Cocoa mats
 Compaction Analyzer – Dynapac DCA-A
 Edge cutter
 Fire extinguisher
 First aid box
 Heat covers for wheels
 Lights, driving, right-hand traffic
 Lights, driving, left-hand traffic
 Lights, working, front/rear for cab/ROPS/canopy (Helium or Xenon)
 Lights licence plate
 Lunch box holder (not for cab)
 Michelin tyres
 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 and scraper system
 Sprinkler back up pump
 Sprinkler timer
 Steel ballast
 Tool set
 Towing eyelets front & rear
 Vandal cover for instrument panel (not cab)
 Water level gauge
 Water tank covers, lockable
 3 inch seat belt

Opt. Equipment for Cab CP2100/2700

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

*7 wheels
 ** 9 wheels



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