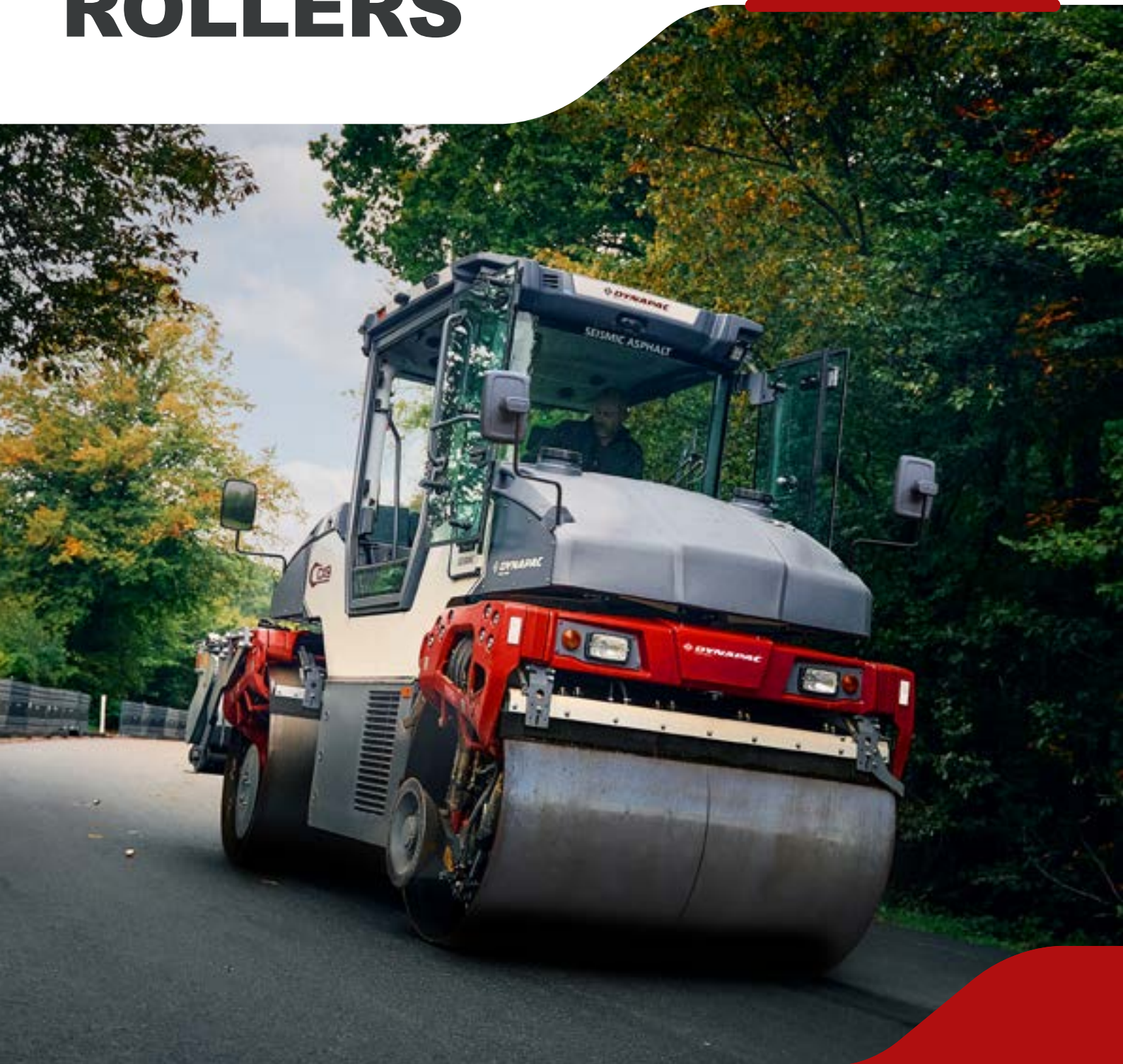


DYNAPAC

# PIVOT ASPHALT ROLLERS

CX8, CX8C, CX9, CX9C





DYNAPAC

# PIVOT ASPHALT ROLLERS

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02

Dynapac  
PIVOT ASPHALT ROLLERS



## *SEISMIC ASPHALT*

*High quality mat*

*Energy-efficient technologies*

*Comfortable operation*

*Excellent maneuverability*

Dynapac's Pivot Asphalt Rollers range includes four models – CX8, CX9 as well as combi versions – CX8C & CX9C. Among the many features of the Dynapac CX range are latest generation VI operating station and ergonomic and operator friendly interface including a full rotating and sliding seat. Easy-to-reach oil and coolant liquid drainages, daily maintenance points, an efficient water system with a full backup and anti-freeze system, and high-placed scrapers are some of the main features built for minimal hassle and more efficiency. SEISMIC ASPHALT truly sets these rollers apart with advantages for the environment, efficiency and operator well-being as well as excellent compaction results.

# A NEW PERSPECTIVE ON COMPACTION

## BRINGS COMPACTION QUALITY TO A NEW LEVEL

### SEVERAL COMPACTION ALTERNATIVES

#### Standard Vibration

The standard drums have the capability to alternate between high amplitude with low vibration frequency and low amplitude with high frequency depending on project requirements.

#### Combi version

Rubber tyred wheels replace the rear drum to achieve a more sealed surface with a different texture to the material.

### SAVE FUEL WITH ECOMODE

With EcoMode enabled, the engine RPM is adjusted to be as low as possible while still maintaining the necessary power required for the given compaction parameters. EcoMode will lower fuel consumption by up to 15% when fully utilized during operation. The fuel savings can be further amplified with the Automatic Idling feature which will cause the machine to go into idle after 10 seconds of standstill in either High or Mid / ECO RPM.

### EFFICIENCY AT HEART

Dynapac's efficiency eccentrics reduces the energy required during vibration start-up by up to 50%, minimizing wear and tear. The CX range is powered by DEUTZ stage V engines, without a need for SCR, AdBlue or additional 'assist' systems.

### ELIMINATE RIPPLES AND CRACKS IN THE ASPHALT

Dynapac's Electric Drive Control system assists for smooth starting and stopping in order to prevent bowing and cracking in the asphalt layers. It allows for the max speed to be set from the start to prevent over-speeding and reduce the risk of rippling while also avoiding losing efficiency due to under-speeding.



### CONTINUOUS JOBSITE MANAGEMENT

Dyn@Lyzer continuously measures the stiffness of the compacted area and records the number of passes. This data is constantly visible for the operator on the machine and can also be monitored from the office.

### MANAGE YOUR FLEET WITH DYN@LINK

Increase the profitability of your business by using Dyn@Link. Quickly identify underperforming equipment, maximize uptime with perfectly scheduled maintenance and, in case of a breakdown, get machines operating again as quickly as possible.



## BEST-IN-CLASS TURNING RADIUS

Best-in-class turning radius of 2.65m and compact machine dimensions further enhance the maneuverability and productivity of the CX machines.

## MINIMIZE STOPS WITH EFFICIENT SPRINKLER SYSTEM

Dynapac's VI Generation Rollers are equipped a 4-3-2 sprinkler system (4 bars, 3 filters, 2 pumps) with a large water tank and a complete back-up of the sprinkler system to limit the amount of stops for refilling.

## WANT TO FIND OUT MORE?

Scan the QR code and experience the Dynapac Pivot Asphalt Rollers even further!



## ALL-AROUND VISIBILITY

Dynapac provides excellent visibility to the operator with seat that rotates 255° and slides across the full width of the cabin, while the operator stays in control of all functions as the full operation module moves along with the seat. LED lights and side lights provide excellent visibility around all sides of the machine at all times.

## MAINTAIN COMFORT WHILE IN OPERATION

The operator can enjoy high levels of comfort with an operating environment that features a 7" touch screen, display controller and an electronic mini steering wheel. The steering and F&R lever functions change automatically in a logical way with the movement and rotation of the seat.

## HIGH QUALITY & PRODUCTIVITY

SEISMIC ASPHALT works at the natural frequency of the material, allowing the drum to transmit the right amount of energy at the right time. This delivers a high-quality compaction result and avoids crushing the aggregates.

## CONFIGURE YOUR DRUM TO YOUR NEEDS

To improve the stability of the outer edge of the asphalt mat and prevent water from penetrating into the mat, an Edge Presser can be added to edge of the drum. Edge Pressers can be utilized to improve the joint between two layers by compacting before jointing.

A Joint Cutter can be mounted on the edge of the drum to improve the edge because often the furthest edges are poor quality due to segregation.



A SEISMIC SHIFT IN COMPACTION

# SEISMIC ASPHALT INNOVATION BY DYNAPAC



**High quality results**

*Use SEISMIC ASPHALT for automatic compaction with real-time frequency adjustment*



**Up to 25% less fuel required to complete the job**

*Use SEISMIC ASPHALT to save €3.600 per year and machine*



**Reduce carbon footprint by up to 25%**

*Use SEISMIC ASPHALT to save 4.800kg CO<sub>2</sub> per year and machine*

Potential customer savings calculated per year and machine.



## INNOVATIVE TECHNOLOGY

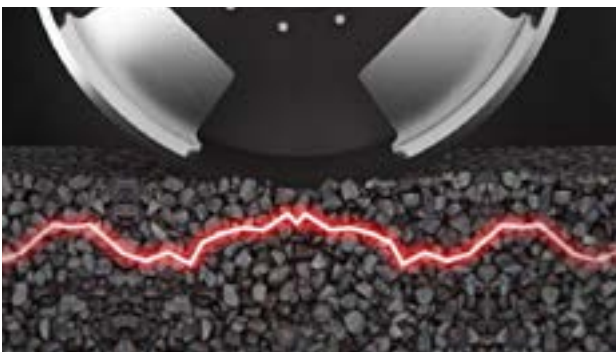
Conventional vibratory compactors deliver a rapid and random succession of impacts at a frequency that is either pre-set or adjusted manually. SEISMIC ASPHALT works differently and automatically detects the natural frequency of the material, combined with temperature sensors to measure the asphalt mix and continuously adjusts accordingly in order to find the optimal compaction frequency. Working at the natural frequency allows the drum to transmit the right amount of energy at the right time. This delivers a high-quality compaction result and avoids crushing the aggregates.

## EASY, SMART & AUTOMATIC

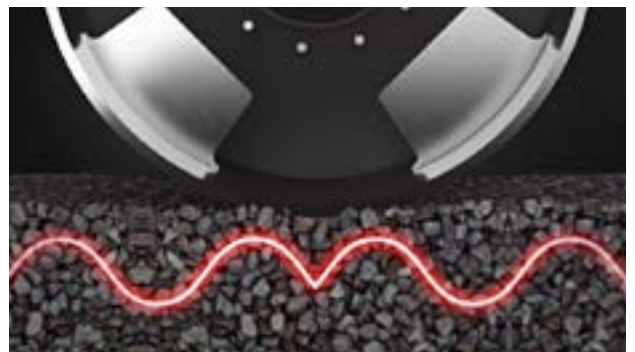
SEISMIC ASPHALT is active by default and uses smart technology and sensors, allowing the operator to just get in the machine and start working. With a fully automatic system like SEISMIC no additional training is required – the adjustments happen in real-time without intervention from the operator. As opposed to competitor machines SEISMIC ASPHALT adjusts both the front and rear drum, making it even more effective. By removing any guesswork from the picture, the operator can focus fully on their main task; meeting the compaction requirements.

## SEISMIC BENEFITS

The benefits of SEISMIC ASPHALT include high-quality compaction results and up to 25% fuel consumption savings when working in combination with EcoMode. As a result, this helps reduce the CO<sub>2</sub> emissions by up to 25%. Thanks to the lower frequency, noise levels are lowered and less vibrations are transmitted to the cab which substantially improves operator comfort.



Compacting at the conventional fixed frequency.



Compacting at the natural material frequency with Seismic.



# JOB SITE CONFIDENCE

Keep your team confident, healthy and safe when operating on the job site.  
Let SEISMIC ASPHALT technology lead the way.

## SEISMIC ASPHALT

### SMART TECHNOLOGY

SEISMIC ASPHALT uses smart technology and sensors allowing the operator to get in the machine, set it and forget it.

### NO TRAINING NEEDED

SEISMIC ASPHALT technology was made to be an operator's best friend. Automatically and without intervention, SEISMIC makes sure that the optimal compaction level is reached by adapting both the front and rear drum to the ground material continuously and in real-time. The operator can rest assured that the final results will be of top quality and focus on meeting the compaction requirements.

### OPERATOR COMFORT

Thanks to the lower frequency, noise levels are lowered and less vibrations are transmitted to the cab which substantially improves operator comfort.

## SLIDEABLE & FULL ROTATING SEAT

### REMOVE THE LIMITATIONS

By being able to turn the seat and steering module all the way around, the operator gains greater positional flexibility and thereby increases visibility. The ergonomics are automatically improved when the operator does not have to stretch and bend to see.

### DRIVEABILITY

Remove any doubts about which way to turn the steering wheel as the drive lever system takes care of this in a logical way by alternating as the operator's station turns.

### ELECTRONIC MINI STEERING WHEEL

The full seat rotation comes with an electronic mini steering wheel that gives smooth and precise steering as it follows the operator's module for best visibility and ergonomics.

## OPERATOR STATION

### VISIBILITY

With the wide sliding function and full seat rotation, as well as big openable windows, the operator has excellent visibility over the drum edge while operating.

### ERGONOMICS

The modern and intuitive interface along with the adjustable seat positioning provides an ergonomic position not putting unnecessary stress to back and neck. A mini steering wheel provides a further ergonomic operating feature.

### LOW NOISE CAB WITH GOOD CLIMATE

Dynapac's cabs are well known for good climate and plenty of space. The driver is protected from all weather conditions whilst operating and can enjoy a working environment with minimum noise.











# HIGH PRODUCTIVITY

Increase the productivity of your job site through efficient paving and compaction operation.

## LARGE OFFSET

### INCREASED VERSATILITY

Thanks to the roller's large offset, one drum edge is removed when compacting close to curbstones. This reduces the risk of the roller tipping over, especially when working on weak road edges, and contributes to a continuous work flow.

### HIGHER SURFACE CAPACITY

Increase surface capacity on final passes to remove marks in the mat.

### BEST-IN-CLASS TURNING RADIUS

Minimize the turning radius by steering the offset drum and hitch in the same direction.

## BEST-IN-CLASS TURNING RADIUS

### QUICK TURNS

Thanks to a turning radius of 2,65m the CX range has best-in-class maneuverability making it highly productive and versatile in all work environments.

### EASY MANEUVERABILITY

The CX steering system features an optional mini steering wheel, keypad for steering mode selection, joystick control for offset and dual steering cylinders.

### TRANSPORT SIZE

The CX range is compact in size with a height of under 3m and short dimensions. This facilitates transport to and from jobs.

## OPTIONS FOR OPTIMAL PRODUCTIVITY

### EDGE PRESSER

Improve edge stability, prevent water penetration and improve the joint between layers by compacting before jointing.

### JOINT CUTTER

Two different sizes of Joint Cutters are available as options and are used to cut off the edge as it is usually poor quality due to segregation. This is a popular option for runways.

### CHIP SPREADER

The optional Chip Spreader can be mounted at the rear of the machine to increase initial surface on newly laid asphalt and repair asphalt bleeding.

### COMBI VERSIONS

Increase versatility by opting for Combi tyres equipped with a flexible sprinkler system. Additional options include heat cover and tyre scrapers.





# MAXIMUM UPTIME

A machine has to run to make money! Minimize non-productive time and avoid unscheduled break-downs.

## 4-3-2 SPRINKLER SYSTEM

### COMPLETE BACK-UP SPRINKLER SYSTEM

To avoid unnecessary interruptions, our rollers are equipped with a complete back-up system for the sprinkler including four sprinkler bars, three-stage filtering and two heavy-duty sprinkler pumps.

### FREEZE PROTECTION

Dynapac's sprinkler system has the ability to intake anti-freeze fluid to protect all parts of the sprinkler systems' waterflow in cold climates.

### EASY ACCESS

Daily maintenance is easily done without the need of removing the filter. Opening the fast-clean flush taps will wash away any dirt. Pumps and filters are easily accessed from the ground.

## OPTIMIZED SERVICEABILITY

### HIGH PLACED SCRAPERS

As opposed to the traditional lower placement of the scrapers, a higher placement helps ensure the asphalt debris does not stick to the drum. This reduces the overall need for cleaning the drum and adjusting the scrapers.

### USER-FRIENDLY INTERFACE

Dynapac rollers are created with the user experience in mind and designed to facilitate quick learning about the machines. The interface and other functions are easily recognized when transitioning from one machine to another within the same range.

### MAINTENANCE AT GROUND LEVEL

All of the daily maintenance points are easily accessed via a hatch on the side of the machine, allowing for quick and easy service from ground level without leaving the job site.

## DYN@LINK

### REAL-TIME LOCATION & GEOFENCING

With the positioning data available with Dyn@Link the roller can be found, traced and limited by a geofence. If the the roller is found beyond the predefined job site area you will be alerted via the Dyn@Link app or webpage.

### ENGINE HOURS, VIBRATION HOURS AND SERVICE ALERTS

Dyn@Link keeps track of important measurements to ensure the well-being of your machine. The engine hours are continuously traced, showcasing the amount of hours spent idling, transporting and static placement. Service needs are notified via the Dyn@Lyzer app or webpage, leaving you in charge of scheduling it at a suitable time.

### PREVENTIVE WARNINGS

Dyn@Link displays critical warnings such as low oil pressure and overheating, making it possible to prevent severe break downs.









# HIGH QUALITY RESULTS

Avoid penalties and rework! Stabilize the quality of your paving and compaction jobs.

## SEISMIC ASPHALT

### HIGH QUALITY RESULTS

The benefits of SEISMIC ASPHALT technology include automated and continuous adjustment of compaction frequency and resonance frequency in relation to asphalt temperature - all of which contribute to the high quality results that SEISMIC ASPHALT provides.

### WORKING IN HARMONY

The system avoids bouncing and aggregate crushing by working in harmony with the material being compacted.

### FULLY AUTOMATIC

As there is no requirement for the operator to manually adjust the system, there is no risk of getting the compaction settings wrong - you will achieve the desired result every time.

## DYN@LYZER

### HOW MANY PASSES HAVE I DONE?

Dyn@Lyzer keeps track of how many passes have been done and where throughout the jobsite, eliminating unnecessary passes.

### WHAT WAS THE TEMPERATURE ON THE ASPHALT MAT?

The asphalt temperature has an important impact on the compaction. Asphalt that is too cold could mean difficulties to reach proper compaction as well as a risk of crushing the aggregate while asphalt that is too hot could result in cracks. The asphalt temperature meter gives warnings when out of range while Dyn@Lyzer records the temperatures throughout the job site.

### WHICH LEVEL OF COMPACTION DID I REACH?

Dyn@Lyzer records and maps stiffness and stiffness progress throughout the day. It records the readings from the Evib compaction meter. It is important to relate to the asphalt temperature as stiffness and Evib Compaction Meter values increase when the asphalt cools.

## COMPACTION METER

### FOR HIGH QUALITY RESULTS

The optional Dynapac Compaction Meter, Evib, comes standard with SEISMIC ASPHALT and allows the operator to compact to pre-set values.

### SUPPORT FOR THE OPERATOR

Continuous information is fed to the operator to localize weak areas and indicate when the material is fully compacted.

### OPTIMIZATION

The advantages of having an Evib Compaction Meter include removal of guesswork, optimal compaction results and elimination of unnecessary passes.





# LOW COST OF OWNERSHIP

Improve the overall profitability of your investment by reducing the costs of operating the machine while maintaining a high equipment value.

## SMART SOLUTIONS FOR COST SAVING

### ECO FUNCTION

Dynapac's large tandem rollers are equipped with an automated solution called "best point regulation system". This ensures that the engine RPM is as low as possible while ensuring that compaction is executed at the right vibration frequency for optimized efficiency. A lower RPM reduces fuel consumption and wear and tear on the machine, saving money on fuel costs and reparations.

### AUTOMATIC IDLING

The machine is equipped with an idling setting that will put the engine into idle mode after 10 seconds of standstill. Instead of having the operator manually turn idle mode on and off it is automated, preventing the machine from consuming excessive amounts of fuel.

### DUAL PUMP VIBRATION SYSTEM

Each of the machine's pumps has two integrated basic on/off valves, providing a highly efficient system that reduces energy loss and fuel consumption compared to complicated vibration valves.

## OPTIMIZED SERVICEABILITY

### OPTIMAL ENGINE PLACEMENT

The engine is designed so that all routine maintenance points are accessible and easy to reach from the ground. Additionally, there is no need for a central lubrication system as the only greasing point is for the offset drum bearing.

### DUAL PUMP VIBRATION SYSTEM

Two integrated basic on/off valves in each pump create a more efficient system with less energy losses and lower fuel consumption compared to complicated vibration valves.

### DYN@LINK

The Dyn@Link system, which is standard on our large tandem rollers, is an excellent way to monitor your roller by being able to access the following:

- Position of your roller
- Engine hours
- Service alerts & warnings
- Machine utilization
- Fuel consumption

## DYNAPAC'S PATENTED SOLUTIONS

### SEISMIC TECHNOLOGY

SEISMIC technology has got many beneficial functions that will help reduce the total cost of machine ownership. The core function of SEISMIC is to automatically adjust to the optimal frequency for compaction (which is significantly lower than conventional compaction). Lower frequencies cause less vibration, which is gentler on the machine and helps minimize wear and tear. By extension, this reduces service costs and fuel consumption. In fact, when SEISMIC is combined with EcoMode, fuel consumption can be reduced with as much as 25%.

### HIGHLY EFFICIENT ECCENTRICS

Dynapac's patented solution Efficiency Eccentrics contributes to power savings at the start-up of either vibration or oscillation by up to 50% or 12 kW. Unlike competitor's machines, Dynapac's Efficiency Eccentrics requires no additional systems to function. Less energy consumption ultimately reduces wear and tear on the machine, promoting a longer life span and reduced service costs in the long-run.











# ENVIRONMENT & SUSTAINABILITY

Protect the environment. Show your social responsibility and collect on tenders that require low CO<sub>2</sub> and noise emissions.

## ECOMODE AND AUTOMATIC IDLING

### ECO FUNCTION FOR LOWER FUEL CONSUMPTION

Our large tandem rollers have a “best point regulations system” meaning that the engine RPM is kept as low as possible while providing the correct vibration frequency in order to maintain compaction efficiency. Noise emissions are alleviated by keeping the engine RPM as low as possible.

### AUTOMATIC IDLING

After 10 seconds in standstill at high or mid/ECO RPM the automatic idling setting will activate, causing the engine to go into idling mode. This helps to lessen fuel consumption as compared to setting the idle manually with the throttle control.

### DUAL PUMP VIBRATION SYSTEM

Two integrated basic on/off valves in each pump create a more efficient system with less energy losses and lower fuel consumption compared to complicated vibration valves.

## LATEST ENGINE TECHNOLOGY WITH STAGE V

### STAGE V ENGINES

Powered by reliable engines from DEUTZ. No SCR or AdBlue needed, saving both time and money. No need for an additional ‘assist’ System.

### EFFICIENT ECCENTRICS

Dynapac’s patented highly efficient eccentrics saves up to 12 kW of power at the vibrations start-up, something that usually causes high levels of energy consumption. The eccentrics allow for us to downsize the engine, thus saving fuel but still having a powerful machine.

### SEISMIC

Reach up to 25% fuel consumption savings when working in combination with EcoMode. As a result, this helps in reducing the CO<sub>2</sub> emissions by up to 25%. Additionally, noise levels are lowered due to lower frequency and a potential overall reduction in the number of passes required to complete the job.

## INNOVATIVE AND ECO-FRIENDLY COMPACTION SOLUTION

### IMPACTOMETER, ASPHALT TEMPERATURE METER & EVIB COMPACTION METER

The Impactometer helps to keep the optimal speed while the temperature meter and the Evib Compaction Meter gives support for compaction at the most efficient temperature without over-compacting. Furthermore, the compaction meter helps optimizing compaction results and tracks the number of completed passes. By reducing unnecessary passes, both fuel consumption and CO<sub>2</sub> emissions are reduced.

### DYN@LYZER

The Dyn@Lyzer software collects the readings from the Evib compaction meter and records the completed number of passes. It also maps out the stiffness and progress of the compaction area in regards to the asphalt temperature; stiffness and Evib values will increase as the asphalt cools. Dyn@Lyzer ensures that a compaction job is well executed, lowering the risk of excessive work or rework. This reduces wear and tear, fuel consumption and emissions – all contributing to improved sustainability.



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# DIGITAL SOLUTIONS

Protect the environment. Show your social responsibility and collect on tenders that require low CO<sub>2</sub> and noise emissions.

## **DYN@LYZER**

### COMPACTION DOCUMENTATION

- Evib Compaction Meter values
- Progress of Compaction Meter values, relative
- Temperature Meter values
- Number of passes
- Supports the roller operator to optimize compaction effort

### ANALYSIS OF THE COMPACTION

- Compaction Meter values (stiffness)
- Progress of Compaction Meter values (progress of stiffness)
- Temperature
- Number of passes
- Statistics and distribution
- Export PDF report and data text file

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.

## **DYN@LINK**

### REAL-TIME LOCATION & GEO-FENCING

All data is accessible for customers with a website account, and also through an app on your smart phone. With the positioning data it is easy to find your roller for service visits and also makes it possible to geofence the roller warning you if the machine leaves the predefined jobsite area.

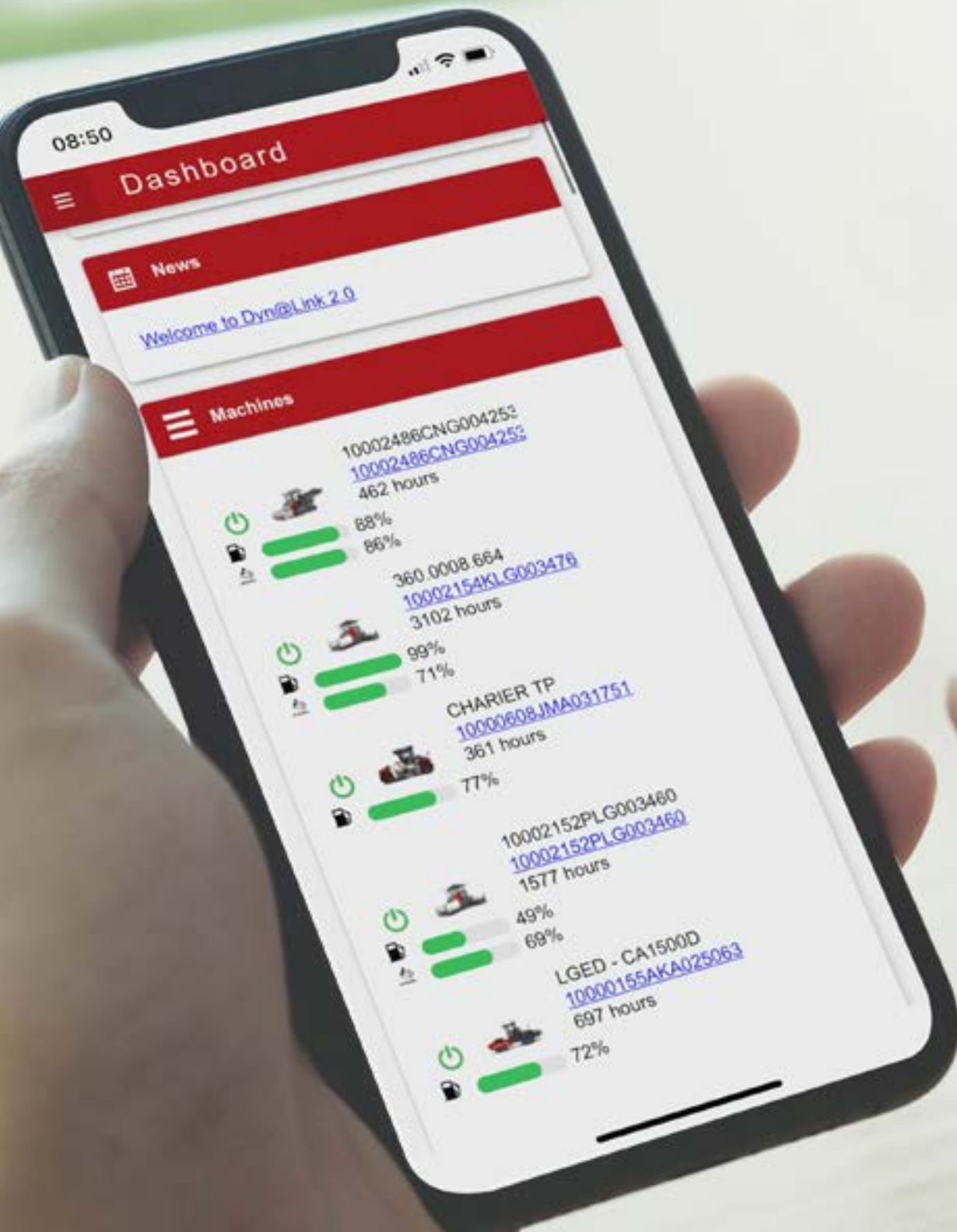
### ENGINE HOURS, VIBRATION HOURS AND SERVICE ALERTS

The engine hours are updated continuously while you can also see the distribution of idling and transportation/static passes. Service alerts pop up when regular service intervals should take place, making it easier to plan for the maintenance.

### PREVENTIVE WARNINGS

Dyn@Link displays critical warnings such as low oil pressure and overheating, making it possible to prevent severe breakdowns.





08:50

# Dashboard


## News

Welcome to Dyn@Link 2.0

## Machines

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10002486CNG004253  
[10002486CNG004253](#)  
 462 hours  
 88%  
 86%
- 


360.0008.664  
[10002154KLG003479](#)  
 3102 hours  
 99%  
 71%
- 


CHARIER TP  
[10000608JMA031751](#)  
 361 hours  
 77%
- 


10002152PLG003460  
[10002152PLG003460](#)  
 1577 hours  
 49%  
 69%
- 


LGED - CA1500D  
[10000155AKA025063](#)  
 697 hours  
 72%



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# COST CONTROL THAT SAVES BIG

Being active in the Road Construction business requires considerable investment. Every square meter involves an operational cost composed of fixed costs such as interest on equipment acquired, labor costs, insurance and equipment depreciation, but also variable costs such as expenses for fuel, wear and maintenance.

## SERVICE COMMITTED TO YOUR FUTURE

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### GENUINE PARTS AND KITS

- Preventive maintenance kits
- Genuine Filters
- Fluids and lubricants
- Wear and repair kits
- Upgrade Kits

### SERVICE

- Right competence
- Training program
- Inspection & service program
- Extended Warranty & Service Agreement

### CONSUMABLES

- Road Milling Tools (bits)

## PREVENT THE COST OF A BREAKDOWN

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### PREVENT COSTLY STANDSTILLS

Equipment breakdowns have a direct impact on your productivity. No production means no revenue, however the fixed costs stay the same, resulting in lower profitability. By avoiding breakdowns and increasing the reliability of your machine, you will be able to produce more per year which, by extension, will improve your profitability.

## PREVENTIVE MAINTENANCE KITS

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### KEEP UP WITH REGULAR MAINTENANCE

Preventive maintenance is the only way to ensure that your machine sustains its productivity throughout the working season. To optimize this productivity, your preventive maintenance needs to be planned either ahead of the working season or as your machine approaches specific intervals for servicing. To assist with maintaining your machines, Dynapac offers preventive maintenance kits so that you have all the necessary parts on hand for every service occasion.





# TECHNICAL DATA

## LARGE ASPHALT TANDEM ROLLERS

TECHNICAL DATA	CX8	CX8C	CX9	CX9C
Drum width, mm	1500	1500	1680	1680
<b>MASSES</b>				
Operating mass, kg (incl. Cab)	8300	7900	8900	8300
<b>TRACTION</b>				
Speed range, km/h	0-12	0-12	0-12	0-12
Vertical oscillation	± 6°	± 6°	± 6°	± 6°
Theor. gradeability	41%	41%	38%	38%
<b>COMPACTION</b>				
Centrifugal force , kN high/low amplitude	72/53	72/53	74/54	74/54
Nominal amplitude, mm, high/low	0,62 / 0,31	0,62 / 0,31	0,6 / 0,3	0,6 / 0,3
Static linear load kg/cm (front/rear)	27,7 / 27,7	27,7	26,8 / 26,8	26,8
Vibration frequency, Hz high/low amplitude	44/53	44/53	44/53	44/53
Tank, l	770 (Water tank)	385+385 (Emulsion tank)	770 (Water tank)	385+385 (Emulsion tank)
<b>ENGINE</b>				
Engine manufacturer & types	Deutz TD 3,6	Deutz TD 3,6	Deutz TD 3,6	Deutz TD 3,6