

Single Drum Soil Compactors

Full range

DYNAPAC

Part of the Atlas Copco Group



Based on experience

Dynapac is the world's most specialized and experienced manufacturer of compaction and paving equipment. This solid base of expertise is one of the reasons for our numerous successful innovations. To put it simply, we know this business and we've got the power to transform groundbreaking ideas into cost-efficient solutions and reliable machines.

That is why Dynapac is a winner when you compare overall profitability and life-cycle cost. Within our lean and goal-oriented organization there are very short and straight paths between

development, manufacturing and our world-wide service network. Your benefit is quality throughout - in products, maintenance, service and overall performance.

In this booklet we describe the basic characteristics of our single-drum soil compactors. A full range of highly efficient vibratory rollers that will make your project more profitable, and strengthen your reputation as a trustworthy working partner.

Welcome to explore the world of Dynapac.



► **Expertise in every aspect**

Experience is the base of excellence. Dynapac will always help you to reach perfection.



DYNAPAC

DYNAPAC

► **Real-life performance**

No matter the application. Dynapac will always offer an optimized solution.

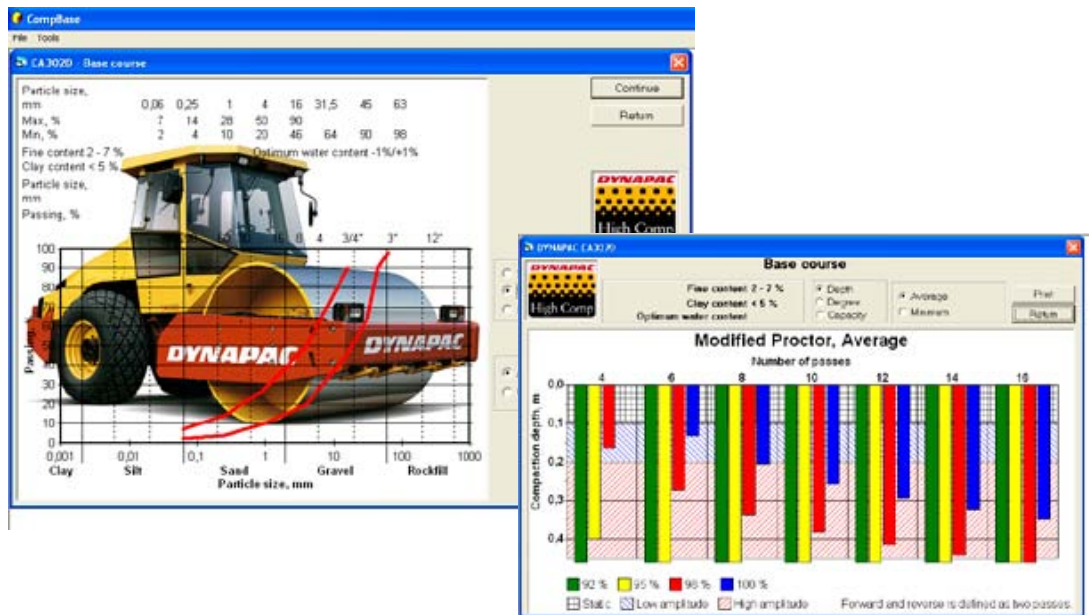
Get the job done. On time - and on budget

► Superior Compaction Performance

Compaction performance depends on many parameters. Static linear load, vibration characteristics and drum dimensions are just a few of them. But performance goes beyond the roller itself. The unique Dynapac experience is available to all our customers through the software tools we offer. Our Compaction Control Systems makes it easy to utilize the full potential of the compactor's characteristics.

► Proven safety

Safety is another top priority in all Dynapac products. Low center of gravity and a thorough chassis design give rock-solid stability. The fail-safe brakes and a safety switch in the operator's seat reduce the risk of incidents while working. And to protect the operator you can equip all models with roll-over protection (ROPS) and protection against falling objects (FOPS).



4 5 6 7 8 9 10 11 12

Metric tonnes



Operator fatigue is the most common source of serious quality errors.

► **Outstanding operator comfort**



► **The human touch**

Man is not a machine. Dynapac's ergonomics help your operators stay fit and alert.

Compaction performance is controlled from the operator's seat. All Dynapac models offer excellent working conditions and comfort for the operator. Powerful air condition and logical controls with just the right feel and feedback completes the perfection of the operator's environment.

A unique feature is the spin-around seat and steering module. With a full 115/230° movement any operation can be performed with full control and with a minimum of physical effort. Combined with supreme visibility, this will substantially contribute to your delivered quality.



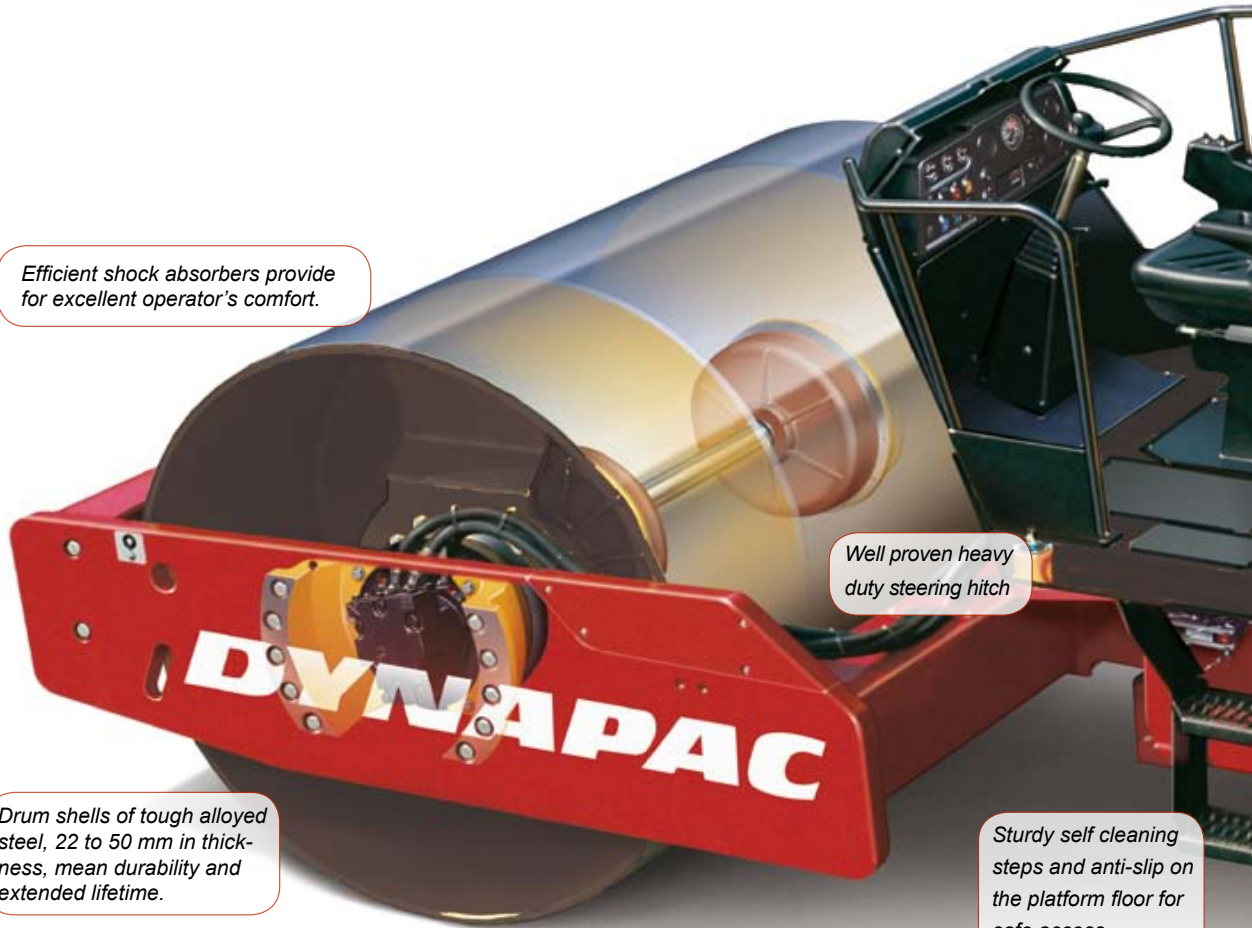
Attention to detail - the base of perfection

Efficient shock absorbers provide for excellent operator's comfort.

Well proven heavy duty steering hitch


Drum shells of tough alloyed steel, 22 to 50 mm in thickness, mean durability and extended lifetime.

Sturdy self cleaning steps and anti-slip on the platform floor for safe access.



► **Bolt-on Padfoot-shells**

Transform your smooth drum roller to a pad foot roller in less than 4 hours. The PD-shell kit extends the utilization of your rollers when you have cohesive and semi-cohesive soils to compact.



► **Welded frames**

The heavy, robust and welded frames guarantee a long service-life for the machine.



The new Cummins QSB low emission engine offers impressive power reserves and significant operation benefits. Easy cold starting, low noise, rapid diagnostics and faster load acceptance are just some of them.

The sloping engine hood improves rear visibility for the driver. An object 1 meter high behind the roller can be detected at a distance of 1 meter.

Side by side cooler/radiator. Easy to keep clean.

Heavy-duty rear axle with fail-safe brakes

Large fuel tank ensures full day use



► **Easy maintenance**

The rollers are designed to simplify and facilitate maintenance and periodic service. Engine dipstick, oil-filler cap, oil fuel filter, air filter and radiator-level control are easily reachable.



► **Anti-spin system**

The optional anti-spin system always ensures traction, even in the worst site conditions. An electronic control system keeps track of the rotation speed of drum and wheels and via a flow divider controls the hydraulic flow to ensure traction.

Get to know the CA family

STD	Smooth drum without drum drive
D	Smooth drum with drum drive
P	Padfoot drum without drum drive
PD	Padfoot drum with drum drive

CA134D/PD CA144D/PD



The CA134 - 144 are vibratory rollers designed for compaction operations in pipe trenches, on road shoulders and in cramped spaces in connection with refilling work. The rollers are also suitable for repair work. The D version gives good maneuverability even on very steep slopes. The PD version, equipped with pads and drum drive, is especially suitable for the compaction of silt and clayey soils.

	Drum width, mm	Operating mass (incl.ROPS), kg	Static linear load, kg/cm	Amplitude, mm	Frequency, Hz
CA134D	1 370	4 550	13 (15)*	1,7	35
CA134PD	1 370	4 750	-	1,5	35
CA144D	1 676	4 800	12,2	1,5	35
CA144PD	1 676	5 000	-	1,3	35

* with heavy front beam

CA150/D/P/PD



This is a vibratory roller designed for compacting roads, streets, parking lots and pipe trenches. Due to the small size and exceptional maneuverability, this roller is also well suited for compaction on large building foundations and industrial construction sites.

	Drum width, mm	Operating mass (incl.ROPS), kg	Static linear load, kg/cm	Amplitude, Hi/low, mm	Frequency, Hi/low, Hz
CA150	1 676	7 000	20,9	1,7/0,8	31/43
CA150D	1 676	7 200	22,1	1,7/0,8	31/43
CA150P	1 676	7 400	-	1,7/0,9	31/43
CA150PD	1 676	7 500	-	1,7/0,9	31/43

CA152/D/PD CA182D/PD



Designed for lighter operations on streets, roads and parking lots. The small dimensions and excellent maneuverability makes it very suitable for compaction work on large building foundations and industrial premises. All types of supporting and reinforcement courses can be compacted.

	Drum width, mm	Operating mass (incl.cab), kg	Static linear load, kg/cm	Amplitude, Hi/low, mm	Frequency, Hi/low, Hz
CA152	1 676	7 300	21,8	1,7/0,8	31/43
CA152D	1 676	7 550	22,4	1,7/0,8	31/43
CA152PD	1 676	7 900	-	1,7/0,9	31/43
CA182D	1 676	8 900	30	1,9/0,9	31/31
CA182PD	1 676	9 000	-	1,8/0,9	31/31

CA250/D/P/PD CA260/D/P/PD CA280/D CA300/D



CA250 and CA260 are typical utility machines, designed for long working days in tough applications. They are utilized for compaction of most types of soil. Typical applications are road building, airfields, dams, harbors and industrial sites.

CA280 and CA300 are medium heavy vibratory soil compactors. All types of base courses and reinforcement courses can be compacted to considerable depth.

	Drum width, mm	Operating mass (incl.ROPS), kg	Static linear load, kg/cm	Amplitude, Hi/low, mm	Frequency, Hi/low, Hz
CA250 /-II	2 130	10 000	25,4	1,7/0,8	33/33
CA250D /-II	2 130	10 200	26,3	1,7/0,8	33/33
CA250P /-II	2 130	11 400	-	1,6/0,8	33/33
CA250PD /-II	2 130	11 600	-	1,6/0,8	33/33
CA260 /-II	2 130	10 700	26,3	1,7/0,8	33/33
CA260D /-II	2 130	10 700	26,3	1,7/0,8	33/33
CA260P /-II	2 130	10 900	-	1,6/0,8	33/33
CA260PD /-II	2 130	12 100	-	1,6/0,8	33/33
CA280	2 130	12 300	31,9	1,7/0,8	33/33
CA280D /-II	2 130	12 500	32,9	1,7/0,8	33/33
CA300	2 130	12 300	36,8	1,7/0,8	33/33
CA300D	2 130	12 550	38	1,7/0,8	33/33

TECHNICAL DATA FOR SINGLE DRUM SOIL COMPACTORS

CA252/D ▶
CA262D/PD
CA282/D
CA302D/PD
CA362D/PD
CA402D



Dynapac's medium-range vibratory soil compactors. The padfoot version has its major range of application on cohesive material and disintegrated rock. All types of base courses and subbase courses can be compacted.

The CA302/362 is ideal for a wide range of applications. The 35 mm hitch drum ensures excellent resistance to wear - even in compaction operations on rockfill. A pad-drum version is available for fine-grained material such as silt, clay or mixed soils.

	Drum width, mm	Operating mass (incl.cab), kg	Static linear load, kg/cm	Amplitude, Hi/low, mm	Frequency, Hi/low, Hz
CA252	2 130	10 250	27,4	1,7 / 0,8	33/33
CA252D	2 130	10 450	28,4	1,7 / 0,8	33/33
CA262D	2 130	10 700	26,3	1,7 / 0,8	33/33
CA262PD	2 130	12 100	-	1,6 / 0,8	33/33
CA282D	2 130	12 200	32	1,7 / 0,8	33/33
CA302D	2 130	12 700	38	1,7 / 0,8	33/33
CA302PD	2 130	12 650	-	1,6 / 0,8	33/33
CA362D	2 130	13 200	38	1,7 / 0,8	33/33
CA362PD	2 130	13 100	-	1,6 / 0,8	33/33
CA402D	2 130	13 800	43,7	1,7 / 0,8	33/33

CA500D/PD ▶
CA600D/PD
CA610D/PD



Three of the heavy machines in the Dynapac vibratory soil compactor range, providing full rock fill capacity. These machines cope with the most heavy-duty type of compaction work on blasted rock and most types of soil and clay masses. Typical applications are road construction, airfields, dams, and major harbor installations. Drum drive comes as standard.

The D-versions are designed for compacting rock fill. The main range of application for the PD versions is on cohesive material and weathered stone material. All types of base courses and subbase courses can be compacted deeper and the interchangeable drums, D to PD, and vice versa, facilitate even greater variety in the range of application.

	Drum width, mm	Operating mass (incl.ROPS), kg	Static linear load, kg/cm	Amplitude, Hi/low, mm	Frequency, Hi/low, Hz
CA500D	2 130	15 600	49,3	1,8/1,1	29/33
CA500PD	2 130	15 800	-	1,7/1,0	29/33
CA600D	2 130	18 300	56,3	1,8/1,1	29/33
CA600PD	2 130	18 500	-	1,7/1,0	29/33
CA610D	2 130	20 600	66	1,8/1,1	29/33
CA610PD	2 130	20 600	-	1,8/1,1	29/33

CA5000D/PD ▶
CA6000D/PD
CA6500D/PD



The CA5000, CA6000 and CA6500 are heavy rollers designed for the toughest compaction applications. Rockfill can be compacted in 2-meter thick layers, in which the size of the rocks can be up to 1 meter in diameter. The smooth drum shell thickness is 43 (CA512) and 48 mm (CA 6000 and CA6500), which gives a long productive lifetime for compaction of rockfill, gravel and sand. Pad-foot drum is available for compaction of silt and clay materials. These rollers are a great investment for the bigger projects as compaction performance and capacity are outstanding.

	Drum width, mm	Operating mass (incl.cab), kg	Static linear load, kg/cm	Amplitude, Hi/low, mm	Frequency, Hi/low, Hz
CA5000D	2 130	16 000	50	2,1/0,8	29/30
CA5000PD	2 130	16 300	-	1,9/1,0	29/30
CA6000D	2 130	19 300	60	2,1/0,8	29/30
CA6000PD	2 130	19 100	-	2,1/0,8	29/30
CA6500D	2 130	20 700	65	2,1/0,8	29/30
CA6500PD	2 130	20 600	-	2,1/0,8	29/30

CA702D/PD ▶



The CA702 is Dynapac's heaviest vibratory soil compaction roller. The machine has been specially developed for the heaviest large-scale compaction work on earth, rockfill and most types of soils and clays. Typical applications include dams, airfields, harbors and major railway and road projects.

	Drum width, mm	Operating mass (incl.cab), kg	Static linear load, kg/cm	Amplitude, Hi/low, mm	Frequency, Hi/low, Hz
CA702D	2 130	26 900	81,2	2,0/1,3	28/30
CA702PD	2 130	26 900	-	2,0/1,3	28/30

Traditionally innovative

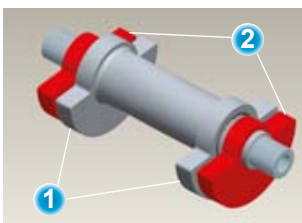
Optimize instead of maximize

We all know that the whole idea with compaction is to reach the correct set of parameters for the type of work in question. There is no point in overdoing anything – it only costs time and fuel, without improving the final result.

Dynapac Compaction Optimizer, DCO, is an innovative system based on the well-proven compaction meter. The stiffness of the ground constitutes the input value for the setting of amplitude of the vibratory drum. The operator gets full control and the project benefits from this in every respect.



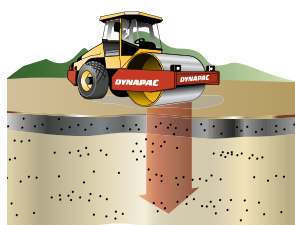
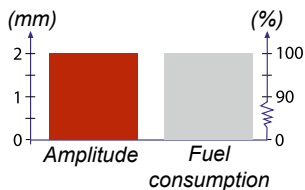
Soft ground



When the adjustable weight (2) is rotated so that it goes to the position shown in the picture above there is an amplitude of 100%.

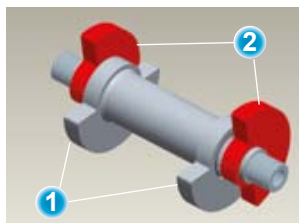


Amplitude (%)



All the dynamic energy from the drum can be absorbed by the ground.

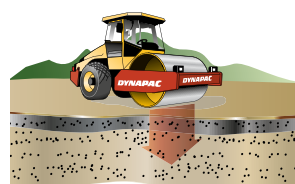
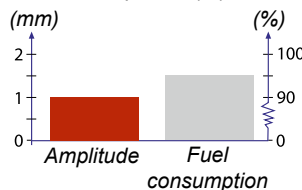
Hard ground



When the adjustable weight (2) is rotated so that it is in the position shown in the picture above there is an amplitude of 50%.

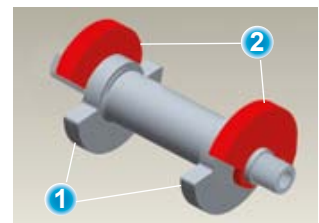


Amplitude (%)



The drum readjusts so that less dynamic energy is supplied to the ground from the drum.

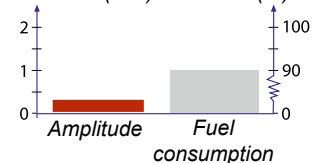
Ready compacted ground



When the adjustable weight (2) is rotated so that it is in the position shown in the picture above there is a minimum amplitude so that the forces almost balance each other out.



Amplitude (%)
(mm)



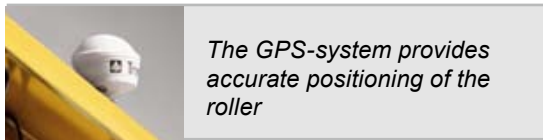
The drum is reset so that there is only a very small amount of dynamic energy supplied to the ground.



Analyze instead of guessing

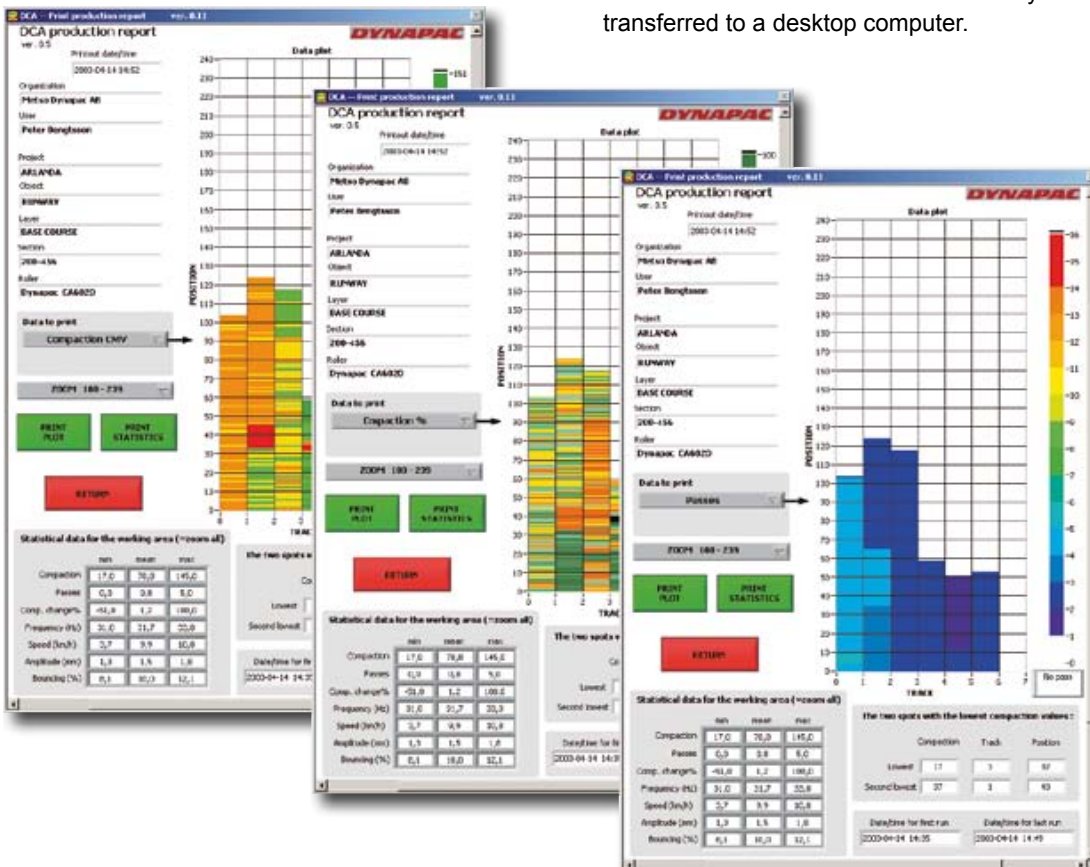
In all projects it is vital to do the right thing - and to do things right. Also in compaction, solid documentation is worth a lot more than spot checks and guesswork.

Dynapac Compaction Analyzer, DCA, includes a field computer which is fed continuously with measurement data – not just random checks. The operator reads the results in real-time and can easily reach top performance from the beginning. DCA is a unique Dynapac feature that improves the result of every job. A real profit maker.



The GPS-system provides accurate positioning of the roller

The results of the compaction are shown directly on the screen of the portable DCA unit. The measurement values can easily be transferred to a desktop computer.



Make your Dynapac truly yours

► Standard Equipment

- Adjustable seat
- Brake release system for towing
- Filler caps, vandal protected
- Fuel gauge
- Electrical gear shifting
- Horn
- Hourmeter
- Hydraulic pressure check points
- Lifting points
- Limited slip, rear axle
- Lockable engine hood
- Lockable instrument panel cover
- Main battery switch
- Rubber mounted operators platform
- Tilt steering wheel
- Tractor wheels (PD)
- Vibration, high/low amplitude
- Vibration, quick stop
- Warning-/Service indicators

(* Valid as STD in ECC-countries only.)

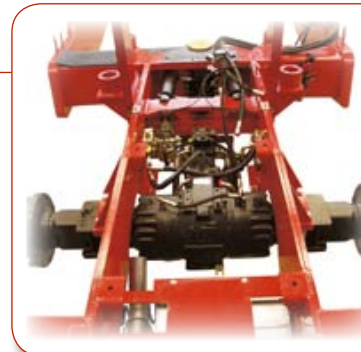
► Standard for luxury cab

- Air filtering system
- Built-in ROPS/FOPS
- Comfort seat
- Fan, fresh air (3-speed)
- Heater
- Interior light
- Noise reduction
- Rear view mirrors, external
- Rear view mirrors, internal
- Rubber mounted cab
- Safety glass, tinted
- Side windows, open able
- Sunscreen, front
- Swivel seat
- Wiper with washer, front/rear
- Working lights
- 12V outlet



Central test panel

For easy testing of hydraulic pressures the machines can be equipped with the central test panel. All hydraulic test ports located and clearly marked up at the same panel for quick pressure readings.



Limited slip rear axle

Depending on working conditions the machines can be equipped with limited slip, no-spin or anti-spin system. Always consider the traction possibilities also including different tyre types, ballasted or not.

Operator in mind

The cab is insulated to get a certain overpressure to keep dust and harmful particles outside the operator's cab. Fresh air filtering systems together with outlets in the right positions ensure that temperature can be controlled and mist kept away from the windows at all conditions. The powerful heater gets a comfortable temperature in a few minutes even in coldest climate.



For CA5000, CA6000 and CA6500, please go to www.dynapac.com

Read more and find
your local dealer at
www.dynapac.com

► Optional Equipment

Anti-Spin
Backup alarm
Biological degradable fluid
Bolt-on padfoot-shell (CA134-362)
Canopy
Central test panel hydraulic
Compaction Analyzer
Compaction meter
Driving lights, front/rear
Drum conversion kit (PD/D)
Dual speed, drum drive
Engine preheater
Frequency meter/Tachometer
High mounted exhaust pipe
No-spin, rear axle
Rear view mirror, external
Registration plate holder, with light
ROPS/FOPS (incl. seat belt)
Rotating beacon
Safety cab (incl. Comfort package), lux/std.
Side direction light
Slow Moving vehicle sign (SMV)
Speedometer
Strike off blade
(CA134/144/152/252/262/302/362)
Swivel seat
Tool box, without tools
Tool set
Volt meter/Engine temp. meter/
Hydraulic temp. meter
Working lights for ROPS
Working lights, front/rear

► Optional for luxury cab

Automatic Climate Control (ACC)
First aid box
Radio and CD player
Roof hatch
Rotating beacon
Tachograph for distance, velocity etc.

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



Environment in mind

All Dynapac CA rollers can be filled with Panolin bio-degradable fluid. The "fill for life" concept means that the hydraulic fluid needs no yearly change -saves environment and saves money.



Compaction Meter

To meet the compaction requirements the basic tool is the compaction meter. Run until there is no growth in compaction to eliminate overcompaction and bouncing - saves fuel, saves environment and saves money.



Strike off blade

To be able to level off the surface PD machines can be equipped with an optional levelling blade, for some machines also tilt-able.



Operator in mind

The air filtering system, fan & heater combined with the ACC system gives the possibility to get a perfect temperature in the cab at all conditions. Just select the temperature and the system will control it.

For CA5000, CA6000 and CA6500, please go to www.dynapac.com

Price, cost and value

Total cost of ownership - optimising more than the price tag

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

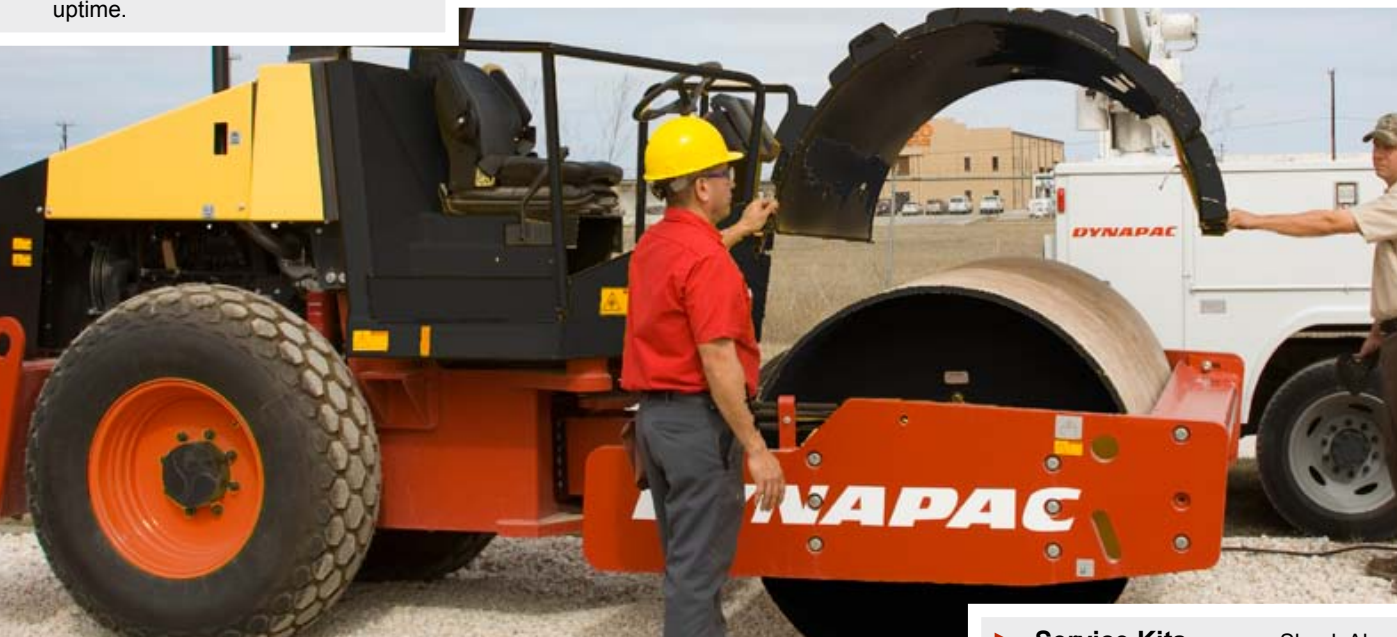
At Dynapac we focus on life-cycle cost. No surprise perhaps, our products are designed and manufactured for an impressive life at your service. And in combination with our standards on uptime, performance and efficiency, Dynapac will make a difference to your bottom line.

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 ditribution 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.



► Service Kits

Service Kit 50 Hrs.

Service Kit 500 Hrs.

Service Kit 1000 Hrs.

Shock Absorber Kit

Steering Hitch Kit

Drum Rotation Kit

Eccentric Shaft Kit



► **Global service network**

Our service technicians are continuously trained and educated in the latest improvements, to help you perform at the top.

The Sustainable Way

Sustainability is more than just a concept at Dynapac. It is a core value that is reflected in our corporate conduct, our manufacturing processes and the quality control that goes into every piece of Dynapac equipment. Our commitment to lasting results runs throughout the life cycle of our equipment – from product development, sourcing and manufacturing processes, to the use of equipment and service and support offerings. Most importantly, it is a promise to our customers and the communities in which we all live and work to continually develop innovative products and solutions that contribute to a strong infrastructure and a more sustainable environment. At Dynapac, a sustainable future begins today.

▶ Create lasting results

Through our equipment, expertise and support, we contribute to create lasting results that pays off for our customers and other stakeholders.

▶ Focus on Quality

We strive to do things right from the beginning and prioritize right, putting our resources at work where they can create the biggest benefits and return on investment.

▶ Take responsibility

We shall be a responsible company in terms of social, environmental, ethical and financial aspects. As a part of the Atlas Copco Group, we share the Group's objective to do all we can to ensure reliable, lasting results with responsible use of resources; human, natural, and capital.



DYNAPAC

Part of the Atlas Copco Group

Dynapac Compaction Equipment AB, Box 504, SE-371 23 Karlskrona, Sweden. Tel: +46 455 30 60 00, Fax: +46 455 30 60 30

We reserve the right to change specifications without notice. Photos and illustrations do not always show standard versions of machines. The above information is a general description only, is not guaranteed and contains no warranties of any kind.