

# ***DYNAPAC SOIL COMPACTOR***

Dynapac CA255



***Atlas Copco***

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## DYNAPAC CA255

**DYNAPAC IS THE WORLD'S** most specialized manufacturer of compaction, milling and paving equipment. With over 100 years of expertise in compaction knowledge and applications, we transform groundbreaking ideas into cost efficient solutions and reliable machines. Committed to customer's performance is what we strive for.

# EXCELLENT COMPACTION PERFORMANCE

Dynapac CA255 is designed for long working hours at tough applications. They are utilized for compaction of most types of soil. Typical applications are road building, airfields, harbors and industrial sites. All types of base courses and reinforcement course can be compacted to considerable depth. Padfoot shell is available.

### 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.

### Analyze instead of Guessing

In all projects it is vital to do the right thing – and to do the things right. The compaction meter is the basic tool to meet the compaction requirement. It displays the increase of compaction to eliminate over compaction and bouncing-saves fuel, environment and money.

Front & rear  
working lights

Easy to reach service points

Fuel Efficient, Water  
cooled Kirloskar  
Engine-BS-III

Heavy duty rear axle  
with failsafe brakes







50mm drum  
frame

Hard top  
canopy

Back up alarm,  
Well protected battery  
Battery cut off switch

Large fuel tank – enough  
for full day's use

Driving lights

Heavy duty  
steering hitch

Efficient shock absorbers  
reduce vibrations on driv-  
ers platform to a minimum.

High static linear load

# DESIGNED FOR PRODUCTIVITY



## *Improved engine,maximised performance*

The Dynapac CA255 comes equipped with a powerful & fuel efficient water cooled KOEL engine, model 4R 1040TA3, which ensures that your soil compactor gives you non-stop performance and maximum reliability at the lowest operating costs .

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## *Improved hydraulics,optimised results*

The Dynapac CA255 features an advanced hydraulic system, which comes with a host of features that ensure high efficiency: Closed loop hydraulic circuit; Various hydraulic components from world leading brands; Lowest-in-class hydraulic tank volume: 52 litres; Hydraulic oil changing frequency: 2000 hours

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## *Improved Service Access & Security*

CA255 comes with Gas strut Mounted, FRP hood which allows easy opening & lowering of hood & it gives complete service access to engine & Hydraulics. The hood comes with a hood lock which means increased security and peace of mind.

### ***Improved ergonomics-informative operator console***

The Dyna CA255 comes equipped with informative operator console, having vandalism protection cover as a standard fitment.

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### ***Heavy Duty steering hitch***

Best in class, Havy duty The steering hitch is one of the heavily loaded parts and should be as solid as possible, to avoid excess wear.

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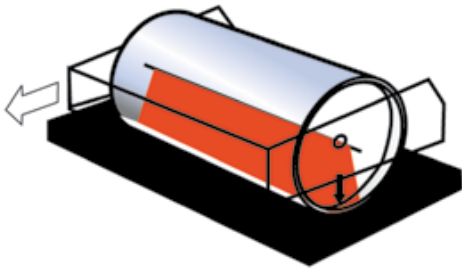


### ***Improved convenience - extra storage space***

The large in-built storage facility, under the seat, makes it possible for the operator to store personal belongings close at hand.



# UNPARALLELED COMPACTION PERFORMANCE

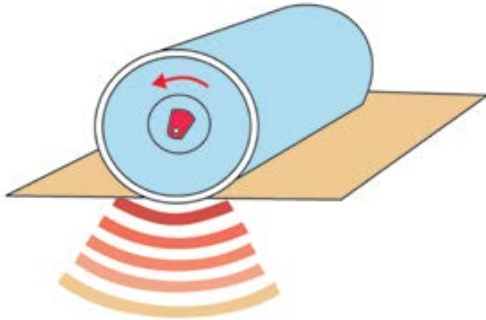


## Static linear load

The more the better:

- CA 255 has the highest static linear load at 30.9 kg/cm

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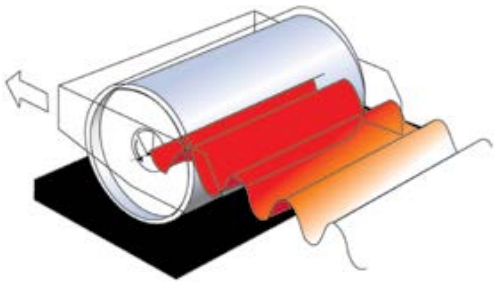


## Amplitude

The higher the amplitude, greater the depth effect

- Dynapac CA 255 offers two different amplitudes i.e
  - High : 1.7mm (thicker layers)
  - Low : 0.8mm (thinner layers)

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## Frequency

Optimised to match the amplitude

- Frequency of Dynapac CA 255 : 33Hz
  - Optimum frequency for best results
- CA 255 uses electronically operated vibration (vibration pump with EDC)
  - This reduces resonating frequencies that cause structural failure/ driver discomfort

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**Compaction meter**

## Intelligent compaction system

- CA 255 is equipped to have the compaction meter as an option
- Easy to read compaction meter with two scales available
- Gives the roller operator information on the increase in compaction for each pass.
  - it shows variations in the rigidity of the underlying surface,
  - it can localize weak areas, and
  - it indicates when the material is fully compacted.
- Avoids harmful bouncing, preventing structural damage
- Avoids extra passes, thus saving both time and money



# TECHNICAL DATA DYNAPAC CA255

		CA255	CA255D	
Operating mass with ROPS (kgs)		10830	11030	
Drum/wheel module mass (kgs)		6580/4250	6780/4250	
Traction				
Speed (kmph)		0 to 11	0 to 6.3	
Vertical oscillation (°)		+/-9	+/-9	
Tyre size (12 ply)		23.1×26	23.1×26	
Theoretic gradeability(%)		34	57	
Compaction				
Static linear load (Kg/cm)		30.9	31.8	
Nominal amplitude,high/low(mm)		1.7/0.8	1.7/0.8	
Vibration frequency at high/low (Hz)		33	33	
Centrifugal force (kN)				
- at high amplitude		246	246	
- at low amplitude		119	119	
Engine				
Model		Kirloskar Engine 4R1040TA3		
Type		Turbocharged + Intercooler BS - III Diesel Engine		
Rated power,SAE J1995,at 2200 rpm,kW(hp)		77.2(105)		
Fuel tank capacity(ltrs)		250		
Hydraulic System				
Propulsion		Axial piston pump with variable displacement/Axial piston motor with constant displacement + Axial piston motor with Variable displacement (D)		
Vibration		Axial piston pump with variable displacement/Axial piston motor with constant displacement		
Steering		Gear pump with constant displacement		
Service brake		Hydrostatic in forward and reverse lever		
Parking/emergency brake		Failsafe multi-disc brake in rear axle		
Dimensions(mm)				
Length overall		Width overall	Drum width	Drum diameter
5550		2324	2130	1523

\*Optional pad foot drum drive units also available

## REGIONAL CUSTOMER CENTRES

BRANCH	ADDRESS	CODE	PHONE	FAX
Chennai	8th Floor, West Wing Shyamala Tower,136,Arcot Road,Saligramam,Chennai 600 093	044	39156021	39156039
Gurgaon	Unitech Business Park, First Floor, Building A,Block F, Sector 41, South City I, Gurgaon122 001	0124	3027934	3027924
Hyderabad	6-3-1191-1196, "Brij Tarang" Greenlands, Begumpet, Hyderabad 500 016	040	32934556	23417923
Kolkata	Trinity Plaza, 2nd Floor, West Wing, 84/1 A, Topsia Road (South), Kolkata 700 046	033	22851041	22851043
Mumbai	Mahatma Gandhi Memorial Building, Netaji Subhash Road, Mumbai 400 002	022	32544556	22819946

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The above information is a general description only, is not guaranteed and contains no warranties of any kind.

## COMMITTED TO SUSTAINABLE PRODUCTIVITY

We stand by our responsibilities towards our customers, towards the environment and the people around us. We make performance stand the test of time.

This is what we call - Sustainable Productivity.

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