

Single Drum Soil Compactors

CA150 – CA602

DYNAPAC

Part of the Atlas Copco Group





Contents

Presentation	3
Spare Parts, Service, Ergonomics and Safety	4
Performance, Environment, Weight Classes and Application Support	5
Characteristics	8
Standard/Optional Equipment	11



Single Drum Soil Compactors

The CA150 series is the smallest machine in our heavy range of soil compactors. The CA150 series is designed for light operations on streets, roads and parking lots. With its small dimensions and excellent maneuverability it is also very suitable for compaction work on large building foundations and industrial premises. CA150 series is available both with drum drive and pad drum.

Our mid size heavy roller models are the CA250, CA260 and CA362 Series. The CA250 Series is equipped with a 4-cylinder watercooled diesel engine. The CA260 and CA362 Series are equipped with a 6-cylinder diesel engine. The additional engine power provides ample power for high gradeability as well as altitude operation.

All models are available with smooth or pad drum, and all models have drum drive.

The heaviest machines in the series are the CA512 and CA602. These rollers are equipped with drive and brakes on both wheels and drum as standard.

They have optional in pad-drum versions for the compaction of soil and clay. These heavy machines cope with the most heavy-duty type compaction on crushed rock and most types of soils and clay. Typical ranges of application are road construction, airfields, dams and major harbor installations.

All of the models mentioned are designed with the same innovative concept and ideas. They also include similar components and parts, which simplifies the stocking of spare parts for contractors who have different size rollers in their machine fleet.

These pictures apply to the units with cabs which are optional equipment.



Position of the steering wheel is infinitely adjustable. From an almost horizontal position for easy access to the seat the best individual driving posture for each person. A position control unit can be provided as an optional feature, (Std in Luxury cab). The swivel steering wheel, seat and controls can be rotated in a single unit to give the best view and driving position.



The level of operator comfort in the cab is high, eg, standard features include: fresh-air installation in which the inlet air is filtered defroster, nozzles for both the front and rear windows, and heat emission close to the floor to give an even and comfortable temperature.



The operator's cab is designed and tested to conform to the requirements for a ROPS/FOPS safety cab. The reinforcement beams are integrated with the side posts of the cab and the roof construction. Cab windows are slightly tinted to reduce heat radiation in sunny weather. Air condition with Automatic Climate Control (ACC) is available as an option.



CA150



CA250



Dynapac uses carefully selected components in the manufacturing of compaction equipment.

Our machines are designed to conform to all current requirements on safety and quality in the United States.

Dynapac always has dealers at the local level. We are aware of local conditions and can always reach you quickly wherever and whenever you need us.

Dynapac takes responsibility for service for our products throughout their entire useful life.

Availability, quality and the best possible customer service are the core of our activities. We are always available with fast and reliable service.

Dynapac Sales organization and its dealer network have direct access to online parts documentation, availability and ordering functions over Internet. Parts & Service

Online provide our aftersales organizations with instant service and parts information 24 hours, regardless of location in the world.

You save both time and money with regard to administration and freight by always coming to us.

In addition to the parts that you buy, you get more in the form of quality, availability, know-how and customer service.



Service

Daily maintenance is minimal and easy to perform. The large, easy-to-open engine hood contribute to the good accessibility.

The number of lubrication points has been reduced to a minimum, at the same time as the periods between servicing have been extended.

Service points such as air filters, oil filters and oil changes are located and configured to facilitate easy accessibility.



Ergonomics

The rollers feature very low vibration levels in the operator's station,

achieved through shock absorbers of the operator's platform, cab, drum and diesel engine.

The optional safety cab gives the operator good protection against wind and rain and it also has integrated ROPS

The noise level for the operator is comfortably low even without a cab, implying less risk of injury caused by noise or fatigue during long working days.



Safety

A very low center of gravity gives the rollers good stability. All of the machines

are equipped with "fail-safe" brakes that are automatically applied if the engine stops or in the event of hydraulic or electric faults in the brake circuits.

The main power switch and well protected electric cables reduces the risk of fire. ROPS and FOPS are included as standard equipment.





CA512



CA602



Performance

The machines feature long service intervals and few service points. High component quality, and a large fuel tank, also contribute to few

interruptions during operation.

The high transport speed allows the machine to be moved quickly between different jobsite locations.

If you are also careful and use genuine Dynapac parts you will reduce your overall costs even further.

The engine options with their ample power resources give the machines excellent gradeability. By using accessories such as the anti spin system even the steepest hills can be conquered.

High clearance adjacent to the edge of the drums facilitates compaction close to curbs and other structures. This, in combination with articulated steering makes the machines easy to operate even in confined spaces.



Environment

Low noise level is an increasing demand in major cities and where quiet night paving operations are demanded.

These machines are available with optional biologically degradable hydraulic fluid.

The time is passed when "bio-oil" meant clogged filters and uncertainties in operation of the hydraulic system.

Filters for hydraulic fluid, engine oil and fuel are located where they are easy to reach and cause the least possible spill.

CompBase

All Dynapac models have been tested at our own laboratory called the High Comp Center. We test and verify the compaction performance on several different soil materials and on a range of layer thicknesses. All test data is sourced into a database and used as the foundation for CompBase program.

CompBase is a PC based tool for machine and method recommendations regarding soil compaction. It is easy to use and works on any PC. Please contact your local Dynapac dealer for further information.

Weight classes

Model	Tons	Model	Tons
CA150	8	CA362	14.5
CA250	12	CA512	17
CA260	12.5	CA602	20.5

Application support



All rollers are given a trade description at our Dynapac International High Comp Center (IHCC). This verifies that the compaction characteristics of the machine correspond to the high level requirements that have been applied in the design.

The data accumulated during tests are filed in a information bank at IHCC, from which recommendations are made in relation to customer needs and specifications. Customer support by IHCC accompanies all Dynapac's machines world-wide as long as the machine is in use, never farther away than a telephone call.

The end result is a unique know-how center that covers market requirements, making it possible for everyone to improve their knowledge in the field of compaction and laying technique.



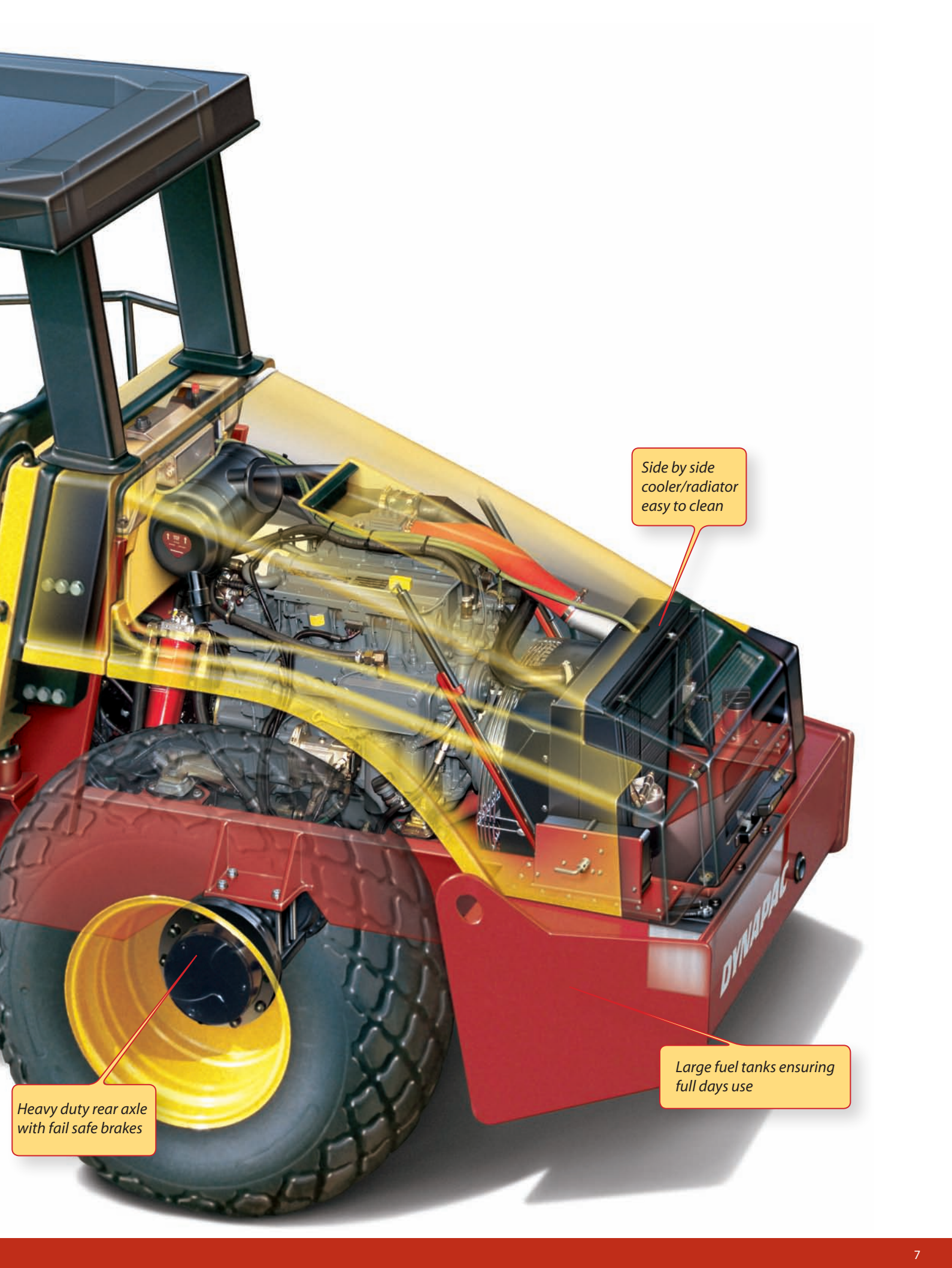


*Thick drum shells
assuring long lifetime*

*Efficient shock absorbers
reduces on drivers
platform vibrations to
a minimum.*

Heavy duty steering hitch

Sturdy self cleaning steps

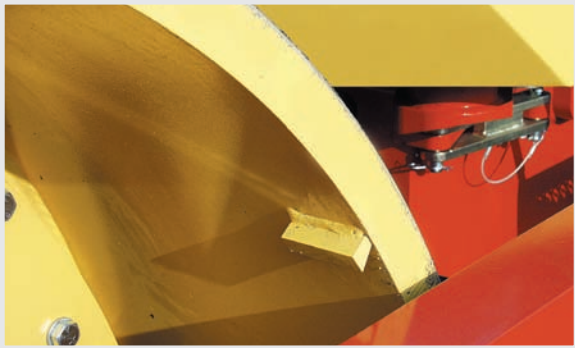


Side by side cooler/radiator easy to clean

Heavy duty rear axle with fail safe brakes

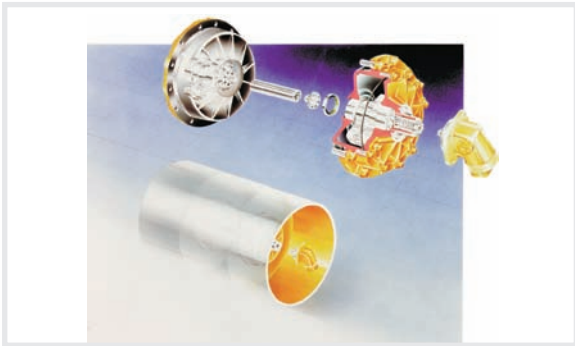
Large fuel tanks ensuring full days use

Dynapac CA Single Drum Soil Compactors



Drums

Depending on the model the rollers have 0.9 to 1.4 inch thick drum shells, made of tough alloy steel with high resistance to wear to ensure long service life.



Drum Cartridge system

The cartridge system for the vibration elements has many advantages with regard to the environment and service. Some are failure containment, low synthetic oil volume to keep cost down and prolong service intervals.



Hydraulic anti-spin system

Computer controlled optimisation of the propulsion hydraulics. Monitors and adjusts the hydraulics to achieve the best possible torque and manoeuvrability for compaction on steep slopes and difficult ground.



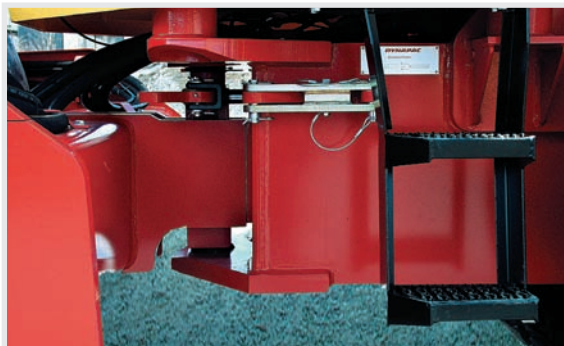
Tractive force

To ensure the best pulling force, the wheels that are usually fitted together with a PD-drum are of tractor type with thick, diagonal tread. Tire size is 23.6 inches x 30.5 inches 14-ply with inner tube.



PD Shell (CA150, 250, 260 and 362)

Transforming smooth drum rollers into Pad foot rollers in less than 4 hours. Extends the utilization of rollers when cohesive and non-cohesive soils are to be compacted.



Articulated steering

All Models have articulated steering. This ensures accurate tracking between drum and wheels. Articulated steering also features a tight turning radius; on these rollers the turning radius is about 9.8 ft or less.



Environment friendly engine

The engine is of the direct injection type, which guarantees the absolute lowest consumption of fuel, while ensuring that engine noise and the hazardous content of exhaust emission are kept at low levels. The engine is designed to conform to the latest requirements on exhaust emission and particles according to EPA (USA) standards. Optimum torque and minimum emission of smoke is achieved with the aid of the Wastegate valve on the exhaust turbo.



Accessibility

The machines are designed to simplify and facilitate maintenance and periodic service, and the need to climb onto crawl under the machines is minimal. It is very easy to reach the engine dipstick, oil-filler cap, oil filter, fuel filter, air filter and engine coolant fill port. The parts and service manuals (available in 27 different languages) that accompany each roller enable the operator to carry out the necessary periodic service.



Operator's protection

A ROPS (Roll Over Protective Structure) and FOPS (Falling Objects Protective Structure), are standard equipment.

CHARACTERISTICS



Visibility

The sloping engine hood, provides excellent front and rear visibility from the operator station.

An object about 3 feet high by 3 feet away can now be seen from the roller's operator seat.



Compaction Meter

The compaction meter is an option on the instrument panel of the roller. It is used to check the degree of compaction of the job site. The compaction is completed when the instrument no longer shows an increasing value. In this way the compaction meter is an aid for the operator and saves both time and money.



Compaction Analyzer

An optional feature to analyze the values indicated by the compaction meter on the instrument panel it must be connected to a field computer of the DCA type (Dynapac Compaction Analyzer). This can record and store the registered values to enable subsequent analysis and interpretation by the site supervisor. The results can be printed out and saved in a PC for later use. Test values from up to 4.4 million square yards can be stored in the field computer.



Supply of spares

Specialists in our department for the ordering of spare parts make sure that the customer gets the right spares at the right time at the right address. The supply of spares even for older roller models that are no longer in production are usually available.



CA150



CA250

Equipment

Standard Equipment

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

Optional Equipment

Anti-Spin	High mounted exhaust pipe	Swivel seat
Biological degradable fluid	Rear view mirror, external	Tool box, without tools
Canopy	Registration plate holder, with light	Tool set
Central test panel hydraulic	Rotating beacon	Tractor wheels
Compaction Analyzer	Safety cab (incl. comfort package)	Volt meter/Engine temp. meter/
Compaction meter	Side direction light	Hydraulic temp. meter
Driving lights, front/rear	Slow Moving vehicle sign (SMV)	Working lights for ROPS
Drum conversion kit (PD/D)	Speedometer	Working lights, front/rear
Frequency meter/Tachometer	Strike off blade (CA260 and larger)	

Standard for cab

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

Optionals for cab

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

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



Dynapac is so much more than just equipment. When our machines are distributed, we include a whole concept of service with original parts, support and organized know-how, covering all the needs in the entire field of compaction and paving – on every continent. We have cut down on response times and increased availability, reliability and distribution speed. For optimum quality, the same engineer who designed the original

machine also looked after the parts. We have a row of service points around the globe to provide peace of mind. Through the internet, our service points have documentation and parts availability information, updated minute by minute. We have developed a complete international network, always ready to offer support and assist with parts and service in order to maintain the highest product quality.

Find your local dealer at www.dynapac.com

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.