

# ***DYNAPAC COMPACT PLANERS***

Dynapac PL350, PL500 and PL1000



*Atlas Copco*

**DYNAPAC**  
**PL1000**

**COMPACT PLANERS** are ideal for narrow jobsite areas where asphalt or concrete surfaces need to be milled. Because traffic is increasing on aging roads, cold planers play a vital role in the upkeep of infrastructure while also helping to reclaim material for reuse. Dynapac Cold planers are designed to deliver maximum productivity in varying jobsite and operating conditions.

## ***DYNAPAC MILLS THE FUTURE***

Dynapac's three compact planers have milling widths from 0.35 – 1 m and are heavily equipped. These planers are built for tight applications and are easy to maneuver in urban construction zones. Foldable right rear chassis on compact planer range enables flush cutting alongside the curbs or walls.

Apart from their high production rates, customers will also appreciate the simple and ergonomic operator interface, ease of serviceability, reduced noise levels and multitude of options that goes along with the machine. Innovative features like a downholder, patented optional parallelogram front axle and unique cover on the left side plate allow efficient milling operation.

These wheeled planers have an optional quick-detach rear-loading conveyor belt that easily carries the milled material away. Diverse conveyor belt options are available to suit your different applications. Options include a short conveyor for loading into a wheel loader or a long conveyor for trucks. A foldable long conveyor option makes transportation easier.

In addition to the standard heavy duty milling drum, the compact planers can also be fitted with a fine milling drum for increased smoothness of the cutting surface. An easily attachable electronic leveling system option further enhances milling surface accuracy.







# OVERVIEW OF IMPRESSIVE CAPABILITIES



## QUICK-EXCHANGE SYSTEM

With a wide side cover on the milling chamber, the side-mounted milling drums on all Dynapac compact planers can be quickly and easily exchanged.

Fine milling drums, as well as a cutting wheel (PL500), are available for varied applications.

As a result, these planers are ready for operation on the most diverse jobs, providing a clear advantage in terms of flexibility and reduced costs.

## WORK AROUND THE CLOCK

All compact planers have working lights and a backlit panel for night work as standard, meaning you can easily work during night when there's less traffic.

The Dynapac PL500/1000 have working LED lights in canopy and traffic lights are standard.

## INTELLIGENT SIDE PLATE

Compact planers with a mechanically propelled milling drum feature the newly developed seal on the left side plate. The seal is positioned tightly against the milling chamber and effectively closes the opening for the drive within the side plate with a mechanically operated restraint, at every milling depth.

The result:

- less material spill out of the milling chamber next to the track
- a height reference placed directly on the side plate when using electronic leveling







### **STABLE CHASSIS LEG**

Dynapac has designed a robust, square profile for the chassis legs for compact planers starting at 500 mm milling widths. For further stabilization, the square profile has been rotated by 45° in order to increase the strength once again. In comparison to round pipes, this design achieves remarkably increased longevity. Nevertheless, should tolerances arise at some point due to wear and tear, the wear plates are easily adjustable.

### **THE SUBJECT OF "WATER"**

Thanks to automatic control of the water spray system, resources can be effectively conserved and the operator can be relieved from certain tasks.

Other practical solutions include water filters that are easily accessible and easily changed, in addition to well-thought-out water drainage solutions for the winter months.

### **ALL-AROUND PROTECTION**

Large stop rods on Dynapac compact planers protect the plastic water tank from damage.

In addition, all operator consoles are protected from vandalism by massive steel plate covers.

Lights and leveling systems, if present, can be stored in a theft-proof manner.



# DYNAPAC PL350 COMPACT PLANER

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## ALL-INCLUSIVE DYNAPAC PL350

- Removable ballast
- Short conveyer
- Working lights
- All wheel drive
- Drivers seat
- Stand extension
- Instrument panel with backlit
- Mirror
- Standard milling drum, w/ bits and first change
- Scales
- Two water refilling stations, standard /quick
- Vandal cover
- Tool set
- Tool box
- Automatic conveyer control
- Automatic water spraying control

For options - pls. see page 11.

## DYNAPAC PL350

The Dynapac PL350 is the smallest model of a new generation of compact planers from Dynapac. The three-wheel cold planer is specially developed for partial repairs of asphalt and concrete pavements and removing of surfaces in buildings. The hydrostatically front driven three-wheel compact planer with hydraulical drum drive is capable of removing concrete and asphalt across a cutting width of 350 mm at a maximum cutting depth of 100 mm.

## OPTIMUM VISIBILITY FOR THE OPERATOR

The ergonomic positioning of the driver behind the cutting drum allows for a very clear view of the cutting edge. In addition, the operator's placement on the rear platform allows for faster and safer mounting and dismounting.

## HIGH CAPACITY

Working lights and backlit panel combined with large water and fuel tanks increase productivity.

## EASY TO USE

It is easy to control the Dynapac PL350. The pictograms on the dashboard are easy to learn and understand. The simplified smart switch layout makes it easy to operate the machine.

## SAFETY

Dynapac PL350 has an interlock system that prevents the operator from driving from ground.

## ALL INCLUSIVE

The Dynapac PL350 includes all that is needed in terms of milling, short rear loading conveyer, all wheel drive, operator seat and stand extension. For fine milling there is an optional drum with 6 mm toll spacing.

### **PIVOTING IN PLACE**

With an equal steering angle of 75° both to the right and to the left, the Dynapac PL350 achieves a level of maneuverability in narrow construction sites that is unmatched. There is no constriction when steering to the left due to the cylinder steering. With a milling radius of only 10 cm, pivoting on the spot is almost possible.

### **WELL PROTECTED**

Vandalism protection is especially important for construction vehicles that have to remain at construction sites overnight. In the case of the PL350, Dynapac offers a solid steel plate cover that totally protects the operator console.



### **REMOVABLE WEIGHT**

The balanced distribution of weight provided by the removable ballast allows for milling without vibrations; this is especially advantageous when performing sensitive tasks such as demarcation. The front ballast weight can be easily removed from the machine with a forklift, and the planer can then be put to use in buildings with a reduced weight.

### **FULLY AUTOMATIC**

The automatic mode for the conveyor belt and the water spray bar for the cutting tools relieves the operator of constant repetitive movements. The automation is activated during milling and turned off when the milling stops. This saves water and extends the time between refilling the water tank.



# DYNAPAC PL500 AND PL1000 COMPACT PLANERS

## DYNAPAC PL500 & PL1000 ON A REPAIR JOB

Use of Dynapac PL500 or PL1000 compact planers for removing the existing surface course within the range of a bridge. The units can be equipped with an optional short or long conveyor for loading into a bucket or on a truck. For deep milling cuts, the Dynapac PL500 or PL1000 are the best options. With the engine output of 97/150 kW as well as a belt drive that operates with almost no power loss, the Dynapac compact planers effortlessly achieve a milling depth of 200 - 300 mm.

The combination of intelligent weight distribution and the mechanical drum drive is ideal for powerful milling on larger surfaces. Due to its very narrow milling radius and compact dimensions, the Dynapac PL500 and PL1000 are also ideal for urban milling projects.

## ALL-INCLUSIVE EQUIPMENT

### DYNAPAC PL500 and PL1000

- Working lights
- Traffic lights
- Instrument panel with backlit
- Vibration insulated operator platform
- Adjustable operators seat
- Slide able operators platform
- Vandal cover
- Tool box
- Tool set
- Cup holders
- 4-wheel drive
- Parallelogram front axle
- Scales (clocks)
- Cleaning set
- Canopy including compartment- and working lights LED
- Preparation for Easy Leveling System ELS
- Hydraulic foldable leg
- Hydraulic operated front mold board
- Standard milling drum, with bits and first change
- Drum quick change
- Two water refilling stations, standard/quick
- Automatic conveyer control
- Automatic water spraying control

Vibration insulated operator's platform

Slidable operator's platform for perfect view

## RIGID SOLUTION

Rigid square tubes for the liftable legs with adjustable wearplates

## CUTTING WHEELS

Exterior cutting wheels option on PL500

## OPTION CUTTINGWHEEL DYNAPAC PL500

Working width	80 mm
Cutting depth	300 mm
Cutting diameter	1020 mm
Spacing	20 mm
Number of tools	38



A yellow and black Atlas Copco Dynapac PL500 road roller is shown from a side-front perspective. The machine has a large black canopy over the operator's seat, a yellow body with black accents, and large black tires. The brand name 'Atlas Copco' is visible on the side and front, and 'DYNAPAC PL500' is printed on the side panel. The machine is equipped with a weatherproof canopy and a parallelogram axle system.

### **WEATHER PROOF**

Unique hydraulically liftable weather proof canopy.

### **A CLEAR VIEW**

A clear view of the cutting edge and a good all-around view are important when milling.

### **EVERYTHING IN SIGHT**

The operator's seat can be shifted outward, allowing an unobstructed view over and along the cutting edge. A low frame height behind the operator's seat allows for a clear view of the conveying belt.

### **HIGH CAPACITY**

Water tanks and diesel tanks are the largest in the class.

### **4 WHEELS PARALLELOGRAM AXLE**

Dynapac offers a patented parallelogram axle, cutting around manholes is possible at any time.

# DYNAPAC PL500 AND PL1000 COMPACT PLANERS

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## MORE POWER, IMPROVED MANEUVERABILITY

Higher performance and innovative features will help milling operators get the job done even faster and more efficiently.

The new Dynapac compact planers offer an impressive 20 percent more power at a maximum milling depth of 300 mm, which substantially enhances milling performance when tackling deep cutting jobs or hard and abrasive material.

This power, combined with a small turning radius and a best in class and quickly detachable rear discharge conveyor, makes the new model ideal for larger jobs in cities or confined areas.

## EASY LEVEL LEVELING SYSTEM

The optional Dynapac Easy Leveling system - the name says it all. Easy Level guarantees an easy operation of the most essential requirements in daily milling operations. All four values (left/right and actual/target) are clearly displayed. The respective menu of options can be retrieved in clear, plain lettering; the sensor selection is easy. The system effectively controls the height cylinders through hydraulic valves. The electronically controlled Easy Level system, as well as height sensors, slope regulators and ultrasonic sensors, is available as an option on all Dynapac compact planer models.

## AUTOMATIC LIFT

As part of its Easy Level system, Dynapac also offers a lift mode that automatically elevates the machine to a pre-set value at the press of a button.

This helps, for example, to significantly reduce the number of steps needed to remove road markings or to drive over obstacles. This means less stress for the operator and increases the planer's daily output when combined with the accuracy of the leveling system.

## MILLING OF ROAD JUNCTIONS

The Dynapac PL500 and PL1000 compact planers are impressive with their maneuverability, compact dimensions and good view of the cutting edge. For cutting alongside a curb, the right rear leg is folded in.

## CUTTING DRUM MOUNTED TO ONE SIDE

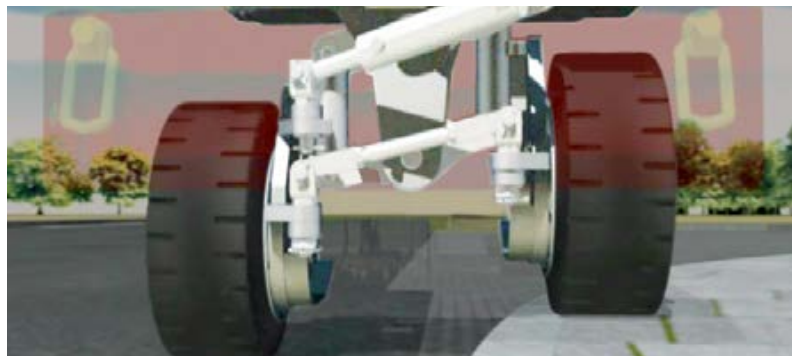
Because the cutting drum is mounted to one side, exchanging it with a fine milling drum has become significantly easier. By pivoting the right chassis leg and opening the milling drum flap on the side, the drum can be exchanged in minutes. The planer is then ready for other tasks in a short period of time and costly downtime is reduced.





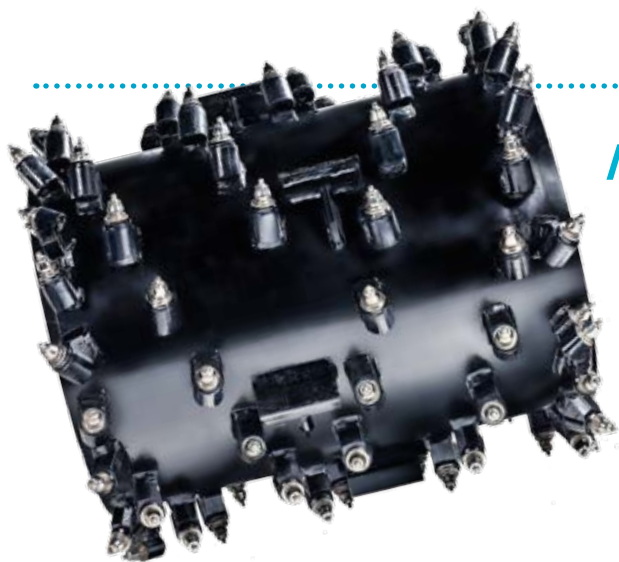
## THE PERFECT SOLUTION

The patented parallelogram front axle substantially reduces wear on the tire on shoulders and increases traction and wheel control on a grade.



## TURNING RADIUS - BEST IN CLASS

The small cutting radius of only 9 in, unmatched in this class, makes the high-performance Dynapac PL500 and PL1000 compact planers very flexible. Milling around manholes is possible at any time and operation in narrow urban areas becomes very easy.



## MILLING DRUM TECHNOLOGY

The layout for the standard milling drum is adapted to the machine's specific parameters. Our many years' of experience with cutting technology, we guarantee a high-performance milling drum. In addition, Dynapac places high value on milling drum operations that are free of vibrations, thus protecting the machine's components in the long run.

In addition to the standard milling drums, fine milling of 7,5 mm is also available. Exterior cutting wheels to cut grooves are available for the Dynapac PL500.

Dynapac offers two different cutting toolholder systems (depending on machine type). These toolholder systems help to reduce wear and tear and operating costs.

OPTIONS	PL350	PL500	PL1000
Conveyor, rigid, 1 m		x	x
Conveyor, rigid, 5.5 m		x	x
Conveyor, foldable, 5.5 m		x	x
Conveyor, rigid, 7.5 m			x
Conveyor, foldable, 7.5 m			x
EASY Level system		x	x
Slope sensor (ELS)		x	x
Side cutting wheel		x	
Fine milling drum	x	x	x

## TECHNICAL DATA DYNAPAC COMPACT PLANER RANGE

	PL350	PL500	PL1000
<b>SHIPPING DIMENSIONS</b>			
Planer without conveyor (LxWxH) mm	2 855 x 1 010 x 2 000	3 800 x 1 350 x 2 650	4 600 x 1 900 x 2 800
Conveyor (LxWxH) mm	1 190 x 545 x 600	5 900 x 900 x 900	8 050 x 900 x 900
<b>CUTTING SECTION</b>			
Working width	350 mm	500 mm	1 000 mm
Cutting depth	100 mm	200 mm	300 mm
Cutting diameter	520 mm	700 mm	930 mm
Spacing	12 mm	15 mm	15 mm
Number of tools	38	61	89
<b>WORKING PERFORMANCE</b>			
Operating speed	0-25 m/ min	0-24 m/min	0 - 24 m/min
Travel speed	0-5.8 km/ h	0-5 km/h	0-5 km/h
<b>TANK CAPACITIES</b>			
Fuel tank	125 l	250 l	450 l
Hydraulic tank	110 l	140 l	110 l
Water tank	400 l	500 l	1100 l
<b>ELECTRICAL SYSTEM</b>			
Heavy- duty cold start battery	2 x 12V	2 x 12V	2 x 12V
Generator 1	24 V / 35 A	24 V / 70 A	24 V / 80 A
<b>LOADING SYSTEM</b>			
Belt width	250 mm	400 mm	400 mm
Maximum discharge height	750 mm	4 220 mm	4 700 mm
<b>MASSES</b>			
Transport mass	3.4 t (incl. conveyor)	7.2 t	13,3 t
Operating mass (CE)	3.7 t (incl. conveyor)	7.6 t	14,1 t
Ballast mass	1.11 t		
Conveyor with scraper (option)	0,1 t	0,6 t	0,8 t
Max. operating mass (incl. ballast)	4.6 t (incl. conveyor)		
Max. operating mass, fully loaded (CE)	4.9 t (incl. conveyor)	8,6 t	15.7 t
<b>ENGINE</b>			
Manufacturer/ Model	Cummins B 3.3, water cooled, diesel	Cummins QSB 4.5 - C130 water cooled, diesel	Deutz TCD 2012LO62V, water cooled, diesel
Number of cylinders	4		
Rated power, SAE J1995	45 kW @ 2,200 rpm	97 kW @ 2,200 rpm	150 kW @ 2200 rpm
<b>OPTIONS FINE MILLING CUTTING DRUMS</b>			
	PL350	PL500	PL1000
Working width, mm	350	500	1 000
Cutting depth, mm	100	200	300
Cutting diameter, mm	520	700	930
Spacing, mm	6	7,5	7,5
Number of tools	70	96	141

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, all informations are supplied without liability.

## 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.

Road Construction Equipment  
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