

# DUPLEX ROLLERS AND TRENCH COMPACTORS

LP range

*Atlas Copco*





## GET IT DONE

Customers look to you for great compaction. Our job is to provide equipment that help you deliver. Together we create quality.

A customer that keeps coming back is the best praise a company can get. Our job is to help make your customers return for years to come. And, hopefully, we get the chance to serve you again.

When we get down to business there are two things we do that makes life easier for you and your customers. We create duplex rollers and trench compactors that work and we provide relevant service when you need it. When you start up the engine all

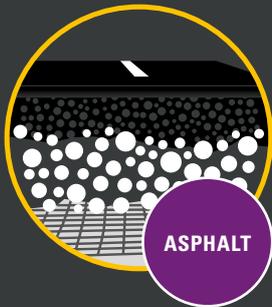
you should think about is how to do a great job on time and on money. Sleek design, hydraulic steering and transmission make handling easy and effortless. Even in confined spaces.

Thanks to vibration-reducing design you can work longer hours with our duplex rollers. The high centrifugal force and speed of the entire LP-range lets you get more done in less time. Of course our machines need maintenance from time to time. But

by using diesel engines from Hatz and cooling fan for oil and battery we cut downtime. If you're in the rental business this means popular and easy to use products with a long service life. Talking about service, we have local support in over 170 markets, teams with product specialists and technicians with one main task: to give you support. That's how we work to help you keep your customers.

# KNOW YOUR SURFACE

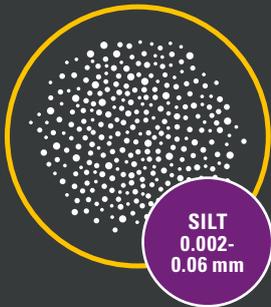
A great compactor can handle all soils. Here's how to tame mother nature's upper crust.



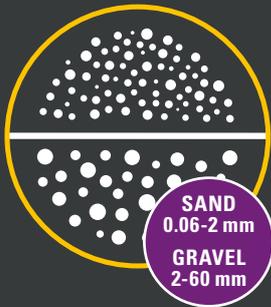
**ASPHALT**



**CLAY**  
 $< 0.002$  mm



**SILT**  
 $0.002-0.06$  mm



**SAND**  
 $0.06-2$  mm  
**GRAVEL**  
 $2-60$  mm

## ASPHALT

Compaction has a profound influence on asphalt performance. Compaction transforms the asphalt mix from a loose state to a compact surface that carry heavy loads. Efficiency of compaction depends heavily on the internal resistance of asphalt. Tools must be able to compact without leaving marks and water is important to create a smooth surface.

## CLAY STICKS TOGETHER

Clay particles stick together and you need high impact force to get the air out. Proper moisture is important when compacting. Wet clay can be moulded and dry clay becomes very hard and may crack under pressure. With its excellent traction and powerful engine the trench compactor makes compaction of clay easy.

## SILT NEEDS FORCE

Silt needs proper water content for good compacting. The cohesive soils, like clay and silt, have the smallest particles of all soils. Silt particles are larger than in clay but they are still small enough to require high energy for deep compacting. A powerful duplex roller together with your experience gets the job done.

## TAKE IT GENTLE

For sand and gravel you can achieve high-density compaction in either a dry or saturated state. The level of compaction depends more on grading than moisture. Too much compaction of sand and gravel is like beating a concrete wall with a sledgehammer. It can crush the material and reduce the load bearing capacity.

Layer thickness (m)

Passes



4

Layer thickness (m)

Passes



4

Layer thickness (m)

Passes



4

Layer thickness (m)

Passes



4

LP Surface capacity (m<sup>2</sup>/h)



LP Compaction capacity (m<sup>2</sup>/h)



LP Compaction capacity (m<sup>2</sup>/h)



LP Compaction capacity (m<sup>2</sup>/h)



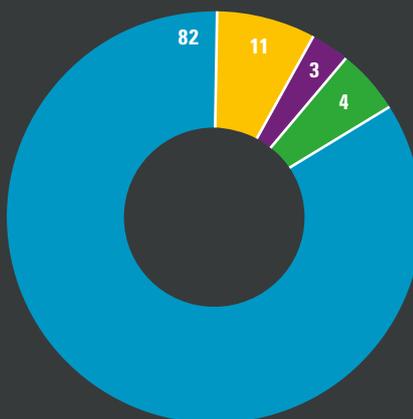
## QUALITY PAYS

The graph shows an average (%) over 1,000 hours.

Total costs of ownership are all costs generated by a piece of equipment throughout its lifetime. We always strive to keep the total cost of ownership as low as possible by

providing highly productive equipment. The graph shows an average of over 1,000 hours. This varies depending on local conditions.

- Operator
- Spares
- Investment
- Energy



# HEAVY MADE EASY

Work with ease on thin layer of granular soil and asphalt. Great for smaller jobs in confined areas.

Compaction equipment of this weight class needs to be easy to manoeuvre. The fully hydraulic LP6505 uses the power of oil to put its compaction capabilities right at your fingertips. For optimal control in any situation the step less throttle lever is placed on a vibration-reduced handle with good ergonomics. The compact design with high curb clearance, no overhang and sleek sides allows you to go close to walls, posts or edges – basically anywhere your work may take you.

To make sure you can keep working our hydraulic roller is also equipped with a cooling fan that keeps the oil temperature on the right level. This is especially advantageous in hot environments but regardless of climate it increases uptime, reduces wear on components and simply boosts productivity. The system also keeps the battery and polymer items, such as seals and rubber, cool for better performance and longer lifetime. Other standard features include hour meter and oil alert.

When working on different type of jobs you might need to switch vibration on and off. This is of course no problem on the LP6505.

Two flip-up hoods facilitates both service and battery charging. The LP6505 is also equipped with scrapers to keep the drums clean and hydraulic brakes with an automatic braking function for easy operation.



| Duplex roller                   |                  | LP6505       |                | LP750        |                |
|---------------------------------|------------------|--------------|----------------|--------------|----------------|
| Fuel                            |                  | Diesel       | Diesel         | Diesel       | Diesel         |
| Starter type                    |                  | Manual start | Electric start | Manual start | Electric start |
| Operating weight                | kg               | 745          | 765            | 983          | 1009           |
| Frequency                       | Hz               | 58           | 58             | 63           | 63             |
| Amplitude                       | mm               | 0,52         | 0,52           | 0,5          | 0,5            |
| Centrifugal force               | kN               | 21,8         | 21,8           | 25           | 25             |
| Speed, forward/reverse          | km/h             | 0-3,6/0-2,3  | 0-3,6/0-2,3    | 3,6          | 3,6            |
| H/A vibrations, standard handle | m/s <sup>2</sup> | 4,1          | 4,1            | 4,3          | 4,3            |
| Sound power, guaranteed         | dB(A)            | 107          | 107            | 109          | 109            |
| Sound pressure at operators ear | dB(A)            | 88           | 88             | 90           | 90             |

#### Dimensions

|               |    |                    |                    |                    |                    |
|---------------|----|--------------------|--------------------|--------------------|--------------------|
| Drum diameter | mm | 400                | 400                | 500                | 500                |
| Drum width    | mm | 650                | 650                | 750                | 750                |
| LxWxH         | mm | 1110/2500x720x1250 | 1110/2500x720x1100 | 1372/2640x880x1283 | 1372/2640x880x1283 |

#### Engine

|              |    |              |              |              |              |
|--------------|----|--------------|--------------|--------------|--------------|
| Engine brand |    | Hatz         | Hatz         | Hatz         | Hatz         |
| Model        |    | 1D42S        | 1D42S        | 1D81S        | 1D81S        |
| Rated power  | kW | 6,6          | 6,6          | 9,5          | 9,5          |
| Part number  |    | 3382 0002 22 | 3382 0002 20 | 3382 0000 78 | 3382 0000 79 |

Important: Full details of measurements are available in the Safety and Operating Instruction of the product (see table above for ID-number). It can be found on [www.acprintshop.com](http://www.acprintshop.com)

# Duplex Rollers **Heavy made easy**

## Protects the engine

Sleek design and great protection of all vital parts. Single lifting point for easy transportation.

## Engine that delivers

Powerful engine with low fuel consumption and low emissions. Hour meter and oil alert for optimal control.

## Low vibration levels

Vibration-reducing handle. Easy handling. Push stop is standard.

## Easy service

Flip-up hoods gives easy access to service points and battery.



**MORE UPTIME**

## Long life

Built-in hydraulic oil cooler extends component lifetime and increases reliability in tough, hot conditions.



## Easy handling

Hydraulic brakes for easier handling and enhanced safety.

## Quick start

Easy access to electric start.

**GREAT ERGONOMICS**



**LP 6505**

## Lifting made easy

The heavy-duty protection frame is equipped with a single point lifting eye.

## Get going

The LP 750 is available with manual and/or electric start.

**LP 750**



## Go wider

750 mm wide one tonne roller with hydraulic driven vibration and triple chain drive for forward and reverse motion.

# GET UP, DOWN AND AROUND

Some compaction jobs are tougher than others. Whether steep, tight or loose soils the LP8504 Trench Compactor will pull through.

Clay and silt are the toughest soils there is. Add tight corners, obstacles and steep slopes and you have the home turf of the LP8504 Trench Compactor. Despite its capabilities to handle really tough conditions regular work in connection with backfills, parking lots or similar projects is handled equally easy.

Thanks to the unibody skid steer design a 90-degree corner in a tight trench is an easy manoeuvre. The

reliable Hatz engine will deliver all the power you ever need and the extra tall pads make sure you have both traction and compaction to handle your daily tasks. The Bluetooth remote control lets you work at up to 30 meter distance, far away from noise, fumes and risk of landslips. Since Bluetooth technology uses radiowaves, the remote control and the machine does not need a direct line of sight between each other. To keep you up and running at all times

each unit comes with two batteries and onboard charging. A cable control is also available.

We want to keep you profitable and an important part of that is uptime. The LP8504 is equipped with a hydraulic oil cooler that reduces wear on components and prolongs service intervals. The same fan also cools the battery for extended life time.



| Trench compactor                |                  | LP8504         |                |
|---------------------------------|------------------|----------------|----------------|
| Fuel                            |                  | Diesel         | Diesel         |
| Starter type                    |                  | Electric start | Electric start |
| Operating weight                | kg               | 1573           | 1675           |
| Frequency                       | Hz               | 32             | 32             |
| Amplitude                       | mm               | 1,1            | 1,1            |
| Centrifugal force               | kN               | 48             | 48             |
| Speed, working/transport        | m/min            | 21/39          | 21/39          |
| H/A vibrations, standard handle | m/s <sup>2</sup> | -              | -              |
| Sound power, guaranteed         | dB(A)            | 106            | 106            |
| Sound pressure at operators ear | dB(A)            | -              | -              |

#### Dimensions

|               |    |                 |                 |
|---------------|----|-----------------|-----------------|
| Drum diameter | mm | 535             | 630             |
| Drum width    | mm | 630             | 850             |
| LxWxH         | mm | 1,875x630x1,207 | 1,875x850x1,207 |

#### Engine

|              |    |              |              |
|--------------|----|--------------|--------------|
| Engine brand |    | Hatz         | Hatz         |
| Model        |    | 2G40         | 2G40         |
| Rated power  | kW | 12,5         | 12,5         |
| Part number  |    | 3382 0000 81 | 3382 0000 80 |

Important: Full details of measurements are available in the Safety and Operating Instruction of the product (see table above for ID-number). It can be found on [www.acprintshop.com](http://www.acprintshop.com)

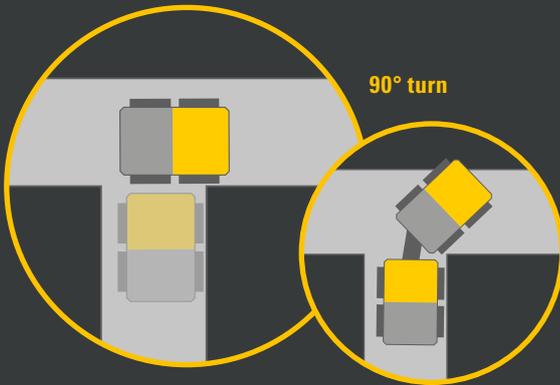


#### Accessories

Our trench compactors come with a number of accessories such as service kit and drum kit.

## Trench compactors **Get up, down and around**

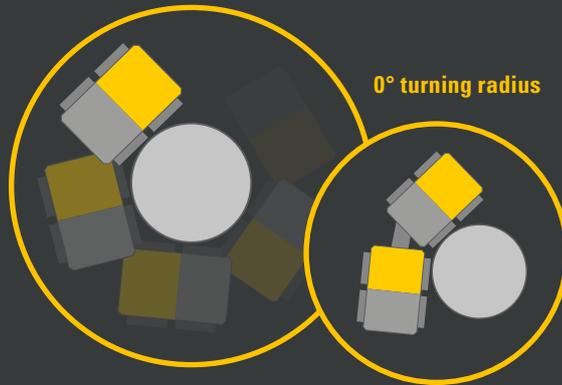
The LP8504 will be your partner of choice for compaction on steep or soft soils where most other fails. Despite its size and power it will get close to any obstacle and through the trickiest trench.



90° turn

LP8504 can take a 90° turn in a trench.

In a tight trench an articulated machine need to be lifted out and turned physically.



0° turning radius

Counter rotation of compaction drums enables LP8504 to make any diameter.

Articulated machines need constant adjustment to compact e.g. around a manhole.

### More uptime

Fan reduces the risk of overheated hydraulic oil and contributes to long service intervals and low lifecycle cost.

### Get noticed

Flashing light whenever the machine is in operation.

### Service made easy

Easy access to service points under the top cover.

### Easy transportation

Single lifting point with large lifting eye.

SAVE TIME & MONEY

### Stop in time

Automatic push stop.

### Get up and down

The LP8504 can go up and down 35-degree slopes.

### Easy operation

Turns tight corners thanks to counter rotating drums which permit rotation around its own axis.

### Keep going

The remote control comes with two cadmium-free batteries and onboard charging as standard. Higher efficiency, lower environmental impact.



### Remote control

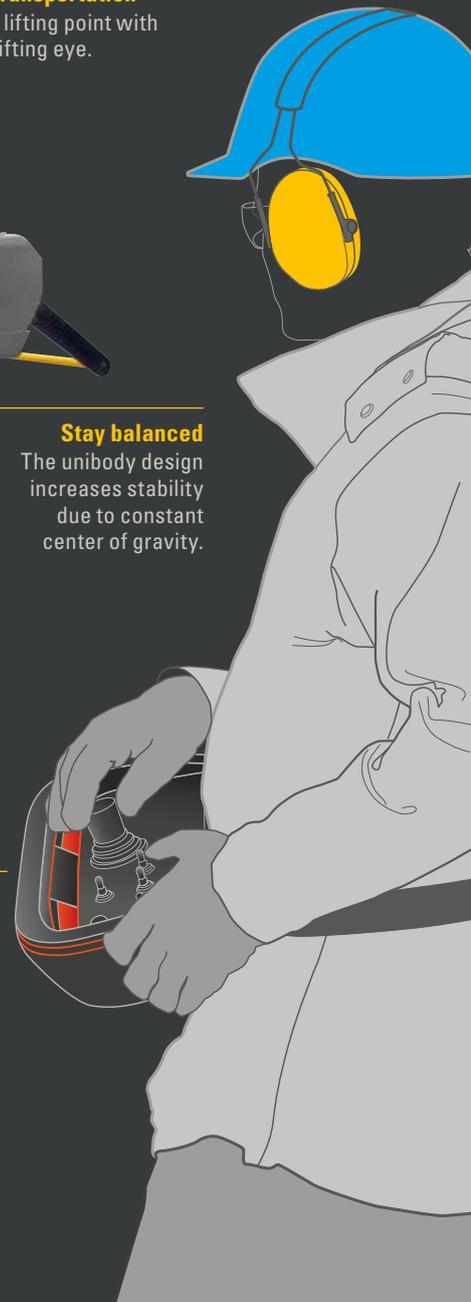
The new bluetooth remote control system keeps you out of harms way. Thanks to individually paired units there is no risk of electromagnetic disturbance between the control and receiver. Bluetooth does not require a direct line of sight between the communicating devices.



LP  
8504

### Stay balanced

The unibody design increases stability due to constant center of gravity.



## ***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.

[www.atlascopco.com](http://www.atlascopco.com)

The Atlas Copco logo consists of the company name in a white, italicized serif font, centered between two horizontal white bars of equal length.

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