

# FORWARD SOIL & ASPHALT PLATES

LF range

*Atlas Copco*





## WE DEAL IN TRUST

Customers look to you for great compaction. Our job is to provide the tools 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 forward plates that work and we provide relevant service when you need it.

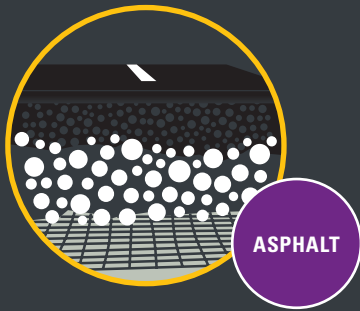
When you start up the engine all you should think about is how to do a great job on time and on money. Smart, low maintenance design solutions let you spend time on actual compaction work instead of doing bottom plate cleaning, pipe cleaning and other time-wasting maintenance jobs. Of course our machines need maintenance from time to time. But by using petrol engines from Honda and diesel engines from Hatz we cut downtime.

At the centre of the V-belt is a Kevlar cord. It adds strength and more uptime. And thanks to a cooling fan and ventilated cover, temperatures are low and lifetime long. As for service, we have local support in over 170 markets and teams with product specialists and technicians with one task: to give you support.

That's how we work to help you keep your customers.

# KNOW YOUR SURFACE

A great compactor can handle both soil and asphalt. Here's how we help you tame mother natures upper crust.



ASPHALT

## 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.

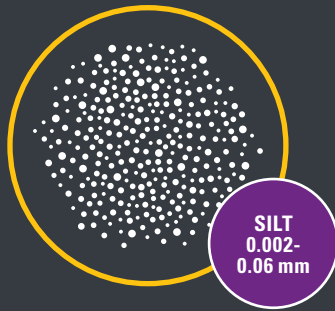
Layer thickness (m)



Passes

4

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



SILT  
0.002-  
0.06 mm

## 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 forward plate together with your experience gets the job done.

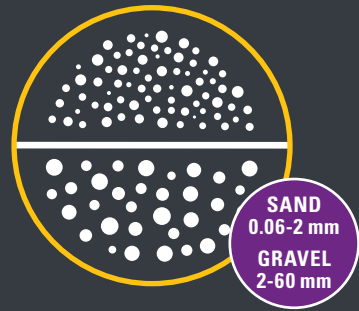
Layer thickness (m)



Passes

4

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



SAND  
0.06-2 mm  
GRAVEL  
2-60 mm

## 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 on 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

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

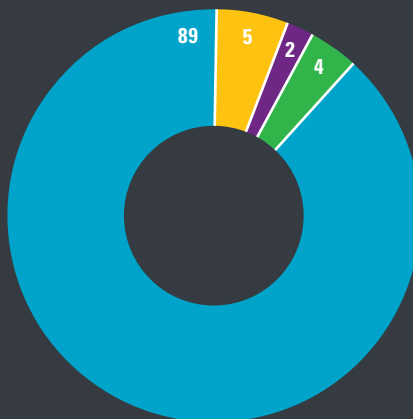


## QUALITY PAYS

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
- Investment
- Spares
- Energy



# GET IT DONE

Our forward plates all have one thing in common – they keep you going without interruption.

Before choosing a machine you have to know what you want to accomplish. The part of the range specialised in granular soil has been designed for compacting thin to medium layers. Silt and gravel require good climbing capacity, high centrifugal forces and high speeds. The LF80 is fast and it belongs to the most powerful machines on the market weighing less than 100 kg.

The anti-vibration handle protects and makes you more efficient.

Thanks to a hand/arm vibration value of only 1,2 m/s<sup>2</sup>, the entire LF-range lets you work for eight hours with more precision and without risking your safety.

Asphalt requires a water distribution system and base plates that can compact without leaving marks.

Simple is good. And when it comes to water distribution we have created the simplest possible solution. The water flows without the need of piping that might get clogged or broken.

Ideal jobs include repair jobs and maintenance work such as driveways, pathways and parking lots.

The whole range covers weight classes from 53 to 141 kg and plate widths from 320 to 500 mm. With a block paving kit the forward plates are also suitable for block paving.

All LF compactors are factory prepared for mounting a block paving kit. If you have an older machine, without factory made holes, a drill fixture is available.



Forward plate compactor - soil		LF50	LF60	LF80	LF100		LF130	
Fuel		Petrol	Petrol	Petrol	Petrol	Diesel	Petrol	Diesel
Operating weight (with water tank)	kg	53	58	82 (89)	97 (103)	106 (118)	135	141
Frequency	Hz	95	95	95	95	95	95	95
Amplitude	mm	0.9	0.9	1.3	0.9	0.9	0.9	0.9
Centrifugal force	kN	8	10	19	17	17	20	20
Speed	m/min	24	25	34	25	25	22	22
H/A vibrations, standard handle	m/s <sup>2</sup>	6.9	7.9	6.7	6.0	9.3	5.4	6.3
H/A vibrations, vibr reduced handle	m/s <sup>2</sup>	1.9	1.9	1.2	1.3	1.9	1.1	1.9
Sound power, guaranteed	dB(A)	100	100	103	104	104	104	104
Sound pressure at operators ear	dB(A)	89	88	91	93	93	93	93

#### Dimensions

Plate width	mm	320	350	420	500	500	500	500
Plate length	mm	505	505	570	595	595	580	580
LxWxH	mm	940x320x965	940x350x965	960x420x995	960x500x995	960x500x995	960x500x995	960x500x995

#### Engine

Manufacturer		Honda	Honda	Honda	Honda	Hatz	Honda	Hatz
Model		GX100	GX100	GX160	GX160	1B20	GX160	1B20
Rated power	kW	2.2	2.2	4.1	4.1	2.5	4.1	2.5
Part number without water tank		3382 0000 32	3382 0000 33	3382 0000 25	3382 0000 28	3382 0000 30	3382 0000 34 <sup>1)</sup>	3382 0000 35 <sup>1)</sup>
Part number with water tank		-	-	3382 0000 26 <sup>1)</sup>	3382 0000 31	3382 0000 29 <sup>1)</sup>	-	-
Part number, block paving kit		3382 0129 60	3382 0129 54	4812 0701 71	4812 0701 72	4812 0701 72	4812 0701 72	4812 0701 72

<sup>1)</sup> With transport wheels. Important: Full dimension details are available in the product's Safety and Operating Instructions (see table above for ID-number). Available at [www.acprintshop.com](http://www.acprintshop.com)

# LF80 Soil

### Large water tank

The optional 13-liter water tank has a flow adjustment valve at the top of the tank. You reach it with ease and the smart solution saves you valuable time.



### Faster, better

The LF80 is among the fastest and most powerful machines on the market weighing less than 100 kg.

### Easy lifting

The machine has a standard lifting eye for crane lifting. It's positioned to keep the machine in balance during lifting.

SAVE TIME

### Feels good

All forward plates are equipped with a patented reduced vibration handle that gives very low hand/arm vibration, compared to conventional handles.

GREAT ERGONOMICS

### Saving space

A fully foldable handle makes transport and storage easier.

### Long belt-life

The lifespan of the V-belt is increased thanks to a cooling fan and a ventilated cover.

### Make customers smile

The bottom plates have rounded edges to avoid marking the surface.



### Accessories

Get more out of your forward plate with accessories like a block paving kit and transportation wheels.

Round plate compactor		LX90
Fuel		Petrol
Starter type		Manual start
Operating weight	kg	96
Frequency	Hz	75
Amplitude	mm	1.7
Centrifugal force	kN	16
Speed	m/min	22
H/A vibrations, standard handle	m/s <sup>2</sup>	6.1
Sound power, guaranteed	dB(A)	104
Sound pressure at operators ear	dB(A)	92

### Dimensions

Plate diameter	mm	450
Height	mm	920

### Engine

Manufacturer		Honda
Model		GX160
Rated power	kW	4,0
Part number		3382 0000 53

Important: Full dimension details are available in the product's Safety and Operating Instructions (see table above for ID-number). Available at [www.acprintshop.com](http://www.acprintshop.com)

### Lifting eye

The standard feature helps keep the machine in balance when you move it in place.

LX  
90



### Effective

The speed is around 25 percent higher and compaction capacity about 40-50 percent higher than with a standard rammer.

### Move with ease

The machine diameter is only 450 mm. And thanks to a round handle you can manoeuvre the LX90 in tricky situations.

# WHY ASPHALT TAKES THE PRESSURE

Asphalt handles extreme loads in temperature-ranges from -30° to +60°. Great compaction helps making it possible.

Asphalt needs compaction to perform. And compaction needs to be just right. When asphalt has too high void content it can deform due to compaction from vehicles. Low void content makes it unstable and the surface will rut.

Water is especially important when compacting asphalt. We recommend you equip your LF-model with an additional water tank.

The removable tank has an oversized, secure cap to make refills fast, easy

and less frequent. Water consumption is optimized with an easy to reach flow adjustment valve.

To create additional uptime, our forward plates are equipped with petrol engines from Honda and diesel engines from Hatz.

As for work, this specific range of forward plates is perfect for repair and maintenance work, such as driveways, pathways and parking lots. The machines are easy to clean,

leave no marks in the asphalt and are able to use whatever water is available on the construction site.

The new LF 60 LA/LAT comes with our proven integrated water distribution system. Flexible and easy to handle, enables a new way of working on asphalt. The lightweight also calls for easier transportation, making it a valuable tool for almost any maintenance task.



Forward plate compactor - soil and asphalt		LF60 LA / LAT	LF75		LF100	
Fuel		Petrol	Petrol	Petrol	Petrol	Diesel
Operating weight / with water tank	kg	63 / 67	92 / 95	95 / 97	95 / 107	106 / 118
Frequency	Hz	95	95	95	95	95
Amplitude	mm	0.9	1.0	1.0	0.9	0.9
Centrifugal force	kN	10	15	15	17	17
Speed	m/min	25	27	24	25	25
H/A vibrations, standard handle	m/s <sup>2</sup>	7.9	6.0	6.0	6.0	9.3
H/A vibrations, vibration reduced handle	m/s <sup>2</sup>	1.9	1.2	1.2	1.3	1.9
Water sprinkler kit	l	5	13	13	13	13
Sound power, guaranteed	dB(A)	100	102	102	104	104
Sound pressure at operators ear	dB(A)	88	91	91	93	93

## Dimensions

Plate width	mm	350	420	500	500	500
Plate length	mm	545	570	570	595	595
LxWxH	mm	986x350x968	960x420x995	960x500x995	960x500x995	960x500x995

## Engine

Manufacturer		Honda	Honda	Honda	Honda	Hatz
Model		GX100	GX160	GX160	GX160	1B20
Rated power	kW	2.2	2.2	2.2	4.1	2.5
Part number without water tank		3382 0003 72	3382 0000 22	3382 0000 24	3382 0000 28	3382 0000 30
Part number with water tank		3382 0005 54 <sup>1)</sup>	3382 0000 23 <sup>1)</sup>	3382 0000 21 <sup>1)</sup>	3382 0000 27 <sup>1)</sup>	3382 0000 29 <sup>1)</sup>
Part number, block paving kit		3382 0129 55	4812 0701 71	4812 0701 72	4812 0701 72	4812 0701 72

<sup>1)</sup> With transport wheels. Important: Full dimension details are available in the product's Safety and Operating Instructions (see table above for ID-number). Available at [www.acprintshop.com](http://www.acprintshop.com)

# LF60 LA/LAT Asphalt

**GREAT ERGONOMICS**

### Makes asphalt good

Easy access to the adjustable water flow.

**MORE UPTIME**

**MORE UPTIME**

### Vibration damping

All our models have a handle that helps reduce hand/arm vibrations.

### Move faster

The LAT version contains extra transport wheels.

**SAVE TIME & MONEY**

### Tubeless watering

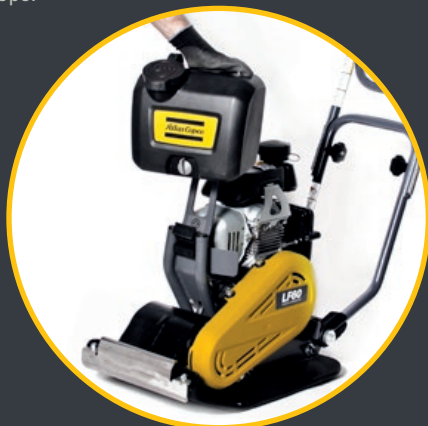
The almost maintenance-free water distribution system prevents asphalt from sticking to the plate.

### Saving space

Fold the handle to save storage space.

### Cut downtime

The 5-liter corrosion-free water tank is very easy to hook on and off for speedy stops.



## ***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.

*Atlas Copco*