

STEP 120 A three-phase

Eccentric screw pump

50 Hz

Step 120 A 400V / 50Hz Tph 7.5 kW
1106094

60 Hz

Step 120 A 230V / 60Hz Tph 7.5 kW
Towable on road (EU approval)
1106054



Pumping group 60.12 as standard. Maximum grain size 10 mm flow rate 120 l / min.



Vibrating grid with 12 mm passage.

Description

Step 120 A three-phase is a high performance eccentric screw pump suitable for pumping:

- Filling concrete with metal fibers / polypropylene / carbon / glass
- Fiber-reinforced grout (grain size max. 10 mm)
- Self-levelling cement / anhydride based screeds
- Lightweight polystyrene-based screeds
- Refractory mortars (wet only)
- Fill core grout (max. Grain size 10 mm)
- Self-levelling screeds with a maximum flow rate of 7 mc / h
- Shotcrete

Specific for pumping materials in high quantities (about 7 mc / h), it must be fed with premixed material by large mixers or by a truck mixer or mini-dumper.

The low loading height of the hopper allows the loading of the mixtures from any type of external mixer, paying attention to the production capacity.

They are often used in pairs:

- Truck mixer
- Dumper
- Mix 360 planetary mixer (two units) or Mix 750
- Syntesi 350 concrete mixer (2 units)

Operation

The mixture prepared in the mixer is poured directly into the hopper through a vibrating grid which filters out any inert material of excessive size and then sucked by the "Rotor-Stator" pumping system.

The pump pushes the material into the hose until it reaches the opposite end. Pumping can be started and stopped via the wired remote control.

If equipped with the optional accessory "gun for shotcrete" and an additional compressor of min. 4500 l / min, the pump turns into an excellent sprayer for concrete, to which about 40 m of hoses can be connected.

In the case of grouting mortars or self-levelling screeds, "open tube" is used.



ON-OFF remote control with 37 m cable.



A generously sized agitator shaft located inside the hopper allows you to move the material when the machine starts working again after a long stop with the material inside, preventing segregation.

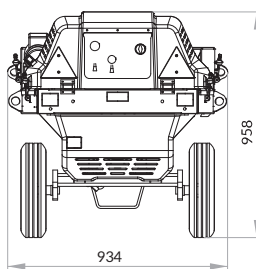
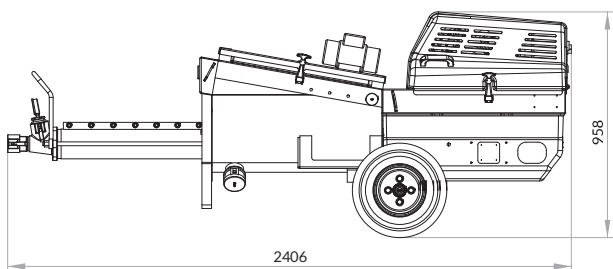
Standard equipment

Electric motor 400V / 50Hz - 7.5 kW or 230V / 60Hz - 7.5kW
Electric control panel
Low voltage electric remote control integrated with 37 m cable
20 m 3x4mm power cable with 3p + T sockets
Rotor-stator 60.12
Vibrating grid
30 m of hose (20 + 10) Ø50
20 m Ø35 end hose connected on one side only Ø50
Hose holder band
Hose washing sponge
Accessory box
Solid rubber wheels (Only for 1106094 Non-towable model)
EU approved road-towing, accessories and components (Only for 1106054 model)

Technical data

Supply	-	400V / 50Hz
	-	230V / 60Hz
Motor power	kW	7.5
Max grain size*	mm	8-10
Flow rate*	m³/h	7
Pumping distance*	m	60
Pumping height*	m	30
Hopper capacity	l	120
Hopper loading height	mm	700
Sound pressure level	dB (A)	< 79
Dimensions w / l / h	mm	934/2406/958
Machine weight	kg	280
Packed machine dimensions w / l / h	mm	1000/1650/1100
Packed machine weight	kg	340

(*) The values indicated are subject to variations based on the characteristics of the materials used, their consistency, the type of stator / rotor installed and the size of the hose used.



WEIGHT AND MEASURES STEP 120 PACKED

Code	Model	Packed machine weight	Packed machine dimensions w / l / h (mm)
1106054	STEP 120A 230V/60Hz Tph	350 kg	1181/1995/1100
1106094	STEP 120A 400V/50Hz Tph	360 kg	934/1650/1100

Wood crate for superposing No. 2 Step 120 without mixer

Dimensions of the wooden case w / l / h	(mm)	1250 / 1750 / 1000
Weight of the wooden crate	Kg	100
Packaging dimensions w / l / h	(mm)	2030 / 1750 / 1000
Packaging weight	Kg	According to the model



Can be used with the following Step 120 models

[1106094](#) STEP 120 A 400V / 50 Hz Tph [1106054](#) STEP 120 A 230V / 60 Hz Tph

Accessories for customized setups **STEP 120 A**

Grid for premixed materials

➔ Recommended for:

- Filling grout with metal fibers / polypropylene / carbon / glass
- Fiber-reinforced concrete (Maximum grain size 10 mm)

[1107569](#)



60.12 / 2L74 Yellow

➔ Recommended for open hose pumping of:

- Self-levelling cement / anhydride based screeds
- Lightweight polystyrene-based screeds
- Filling grout with metal fibers / polypropylene / carbon / glass
- Fiber-reinforced concrete (Maximum grain size 10 mm)

Pressure 20 bar

Maximum grain size 8-10 mm

Flow rate 117 l / min

[1107081](#)



Stator 60.12
CLAMP

[1107083](#)



Rotor 60.12

[1107533](#)



Material hose Ø 50 - 10 m with
camlock coupling

[1107534](#)

Material hose Ø 50 - 20 m with
camlock coupling

A



➔ Recommended for:

- Spraying of shotcrete, with the aid of an additional external compressor Min. 4500 l / min

[1107533](#) Material hose Ø 50 - 10 m with camlock coupling

[1107534](#) Material hose Ø 50 - 20 m with camlock coupling

[1106250](#) Shotcrete gun without additive inlet - Ø 50 camlock coupling and air inlet with 1/2" quick coupling