

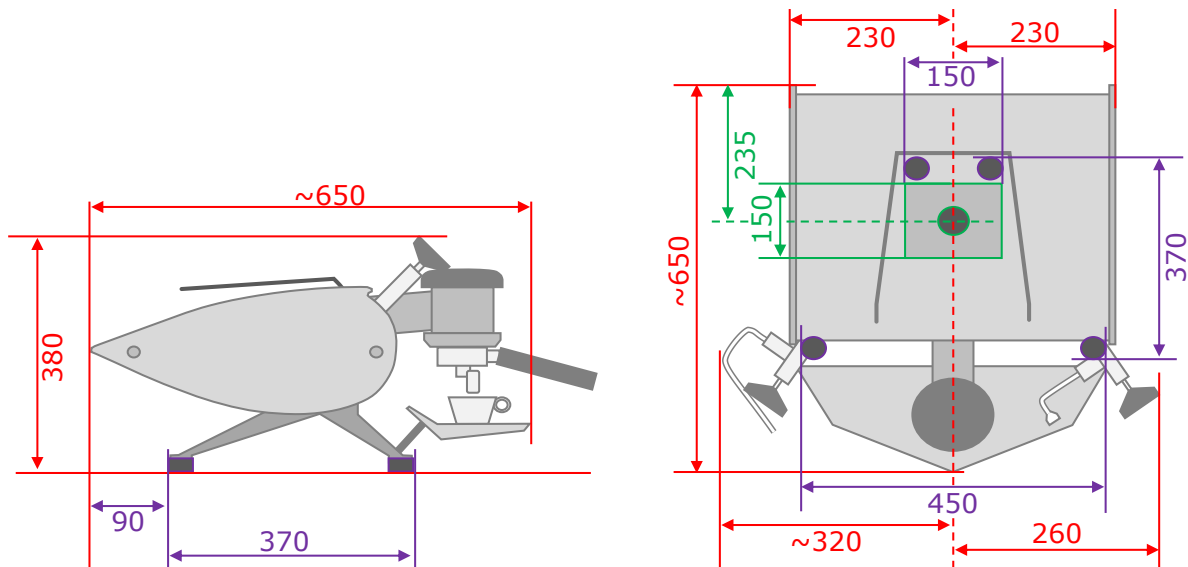
Speedster 2020 pre-installation guide	Document #	Sup-S20piG
	Date of issue	June 16, 2020
	Revision date	

Before unpacking the machine, you must be sure that the area where the machine will be placed has been prepared properly. The **countertop** should be level and firm enough to carry the weight of the machine (up to 45 kg, 100 lbs), even when force is applied to it (to lock in the filter holders, tamp the coffee bed, etc.).

For the **feed through of the water hoses and electrical cables** drill a hole of 42 mm (1¾") diameter in the counter. This 42 mm diameter will fit the mains plug, once the mains plug is fed through, the pump plug and other feeds will fit through the same hole. The centre of the hole should be approximately in the middle of the machine and between 150 and 280 mm (8" and 10") from the back of the machine. Ensure that this hole is not above the knock-box when it is planned as a "drawer" under the countertop!

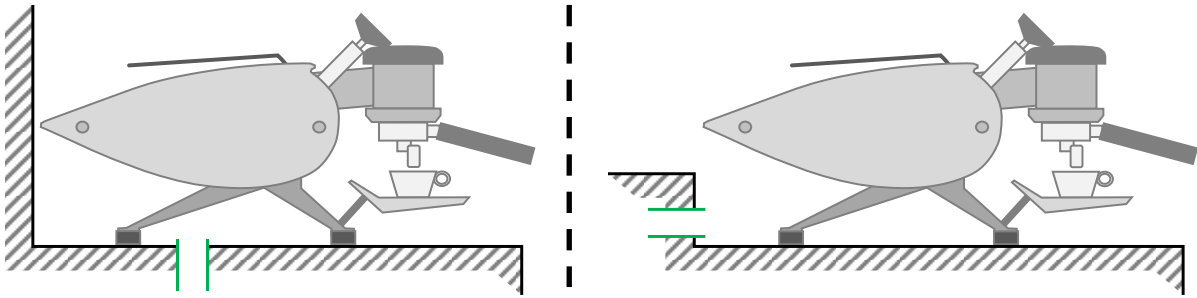
Smallest diameter hole that will fit:

- Mains power cable plug: 42 mm (this will fit all other hoses and cables as well)
- Mains power cable: 12 mm
- Pump cable plug: 30 mm
- Pump cable: 9 mm
- Drain hose: 20 mm
- Water supply hose connector: 24 mm
- Water supply hose: 12 mm



Theoretical dimensions in millimetres, real measurements can deviate a little. The **green circle and square** are logical locations for a feed-through in the countertop. All feeds will fit through a single hole with diameter 42 mm. The hole can be made anywhere within the green square.





Examples of feed-through hole (green outline: diameter ≥ 42 mm) in countertop (left) or upright behind the machine (right).

△ Caution!

Installation of and maintenance on the Speedster should be done by a qualified technician. The steam/hot water boiler contains water and pressurised steam of 135 °C at 2.2 bar overpressure (275 °F at 32 PSI). Temperature and pressure in the coffee system reaches up to 96 °C at 12 Bar overpressure (205 °F at 175 PSI). Inner parts of the machine can reach a temperature close to 135 °C (275 °F).

☠ Danger

We cannot be held responsible for damage and/or injuries resulting from actions performed on our machines by non-qualified personnel.

Water supply from a water treatment system must be nearby (max. 1.5 meter, 5 ft) to the machine. The water supply hose that comes with the machine has a half ball at the end and a 3/8" nut connector. **Discharge** may not be further away than 1.5 meters, have an internal diameter of at least 23 mm (1") and should be fitted out with a syphon.

There must be **space nearby** to locate the **water pump** with its electric motor (DxWxH: 30x20x25 cm; 12x8x10") and a **water treatment system** (dimensions depend on system).

A wall socket or **power mains** outlet box must be no more than 1.5 meter (5 ft) away. The machine is built to work with 230Vac (RMS system voltage).

In the low-Amp version, power to one of the two 900W heating spirals of the steam boiler heating element is interrupted as soon as the coffee boiler heating element (900W) is switched on thus reducing the maximum power consumption.

Power mains must have an **earth connection** and should be able to safely deliver the maximum power consumption shown in the table below.

Maximum power consumption	standard version 230Vac	low-Amp version 230Vac
Watts	3100	2200
Amps	13.5	9.6

For your safety, we recommend that the electric mains is equipped with a residual current circuit breaker (earth leakage circuit breaker) of 3-30 mA and a current limiting breaker (fuse) of 16 Amp.



The Speedster 2020 is normally equipped with a CEE 7/7 (also called “Schuko”) plug. If the machine comes without a **plug** fitted, please ensure that you have a suitable plug to match the wall socket, or have the machine directly installed in the wall installation box.



CEE 7/7 plug (left) fits both sockets shown on the right (CEE 7/4 and CEE 7/5).

Notes!

- 1 Make sure that the mains and pump cables “bend-upwards” in the cabinet below the machine to prevent the possibility that water dripping along these feeds reaches the wall socket or pump-motor.
- 2 Be aware of the location and functioning of the knock-box when planning the design of the connections to your machine.
- 3 Ensure that all the preparatory work is carried out before the machine is delivered; check power outlets, water supply (line pressure 2-5 bar) and drain beforehand.
- 4 Make sure to install an appropriate water treatment system. As water quality can change drastically from location to location no single system is suited everywhere. Contact a local water expert for guidance.

General tips

- When you install a knock-box in “drawer-style” locate it centred underneath the espresso machine or near the grinder(s) in the back of the bar. This will result in a favourable routing of the filter holder (knock empty, fill, tamp, lock into group).
- Have your cabinet-maker fit the knock-box “drawer-style” prior to installing the espresso machine. Whoever installs the machine may not be able or equipped to do so.
- Have approximately 10 cm of free countertop space at the barista’s side of the machine. This is useful working space for cups and saucers.
- Have a fridge installed as close to the espresso machine as possible. Cold milk is essential for the proper preparation of cappuccino.

