

Worm pumps S 5 + SP 5 – all the data

Modell	S 5 ^{EV}	S 5 ^{EVCM}	S 5 ^{EVTM}	S 5 ^{EF}	SP 5
Speciality	basic version	continuous mixer	plate mixer	basic version	basic version
Worm pump type	2L6	2L6	2L6	2L74	1L6
Delivery rate (theor.)	7-40 l/ min	7-40 l/ min	7-40 l/ min	90 l/ min	4-25 l/ min
Delivery pressure max.*	25 bar	25 bar	25 bar	25 bar	approx. 15 bar
Delivery reach max.*	up to 60 m	up to 60 m	up to 60 m	up to 60 m	up to 40 m
Delivery height max.*	up to 40 m	up to 40 m	up to 40 m	up to 40 m	up to 15 m
Drive worm pump	5.5 kW, 400 V variable drive	5.5 kW, 400 V variable drive	5.5 kW, 400 V variable drive	7.5 kW, 400 V variable drive	4 kW, 230 V freq. converter
Mixer drive	–	5.5 kW, 400 V	2.2 kW, 400 V	–	–
Weight	190 kg	360 kg	400 kg	260 kg	190 kg
Length	2,290 mm	2,840 mm	2,290 mm	2,610 mm	2,500 mm
Width	680 mm	680 mm	680 mm	680 mm	755 mm
Height	650 mm	1,200 mm	1,150 mm	650 mm	677 mm
Maximum grain size	6 mm	6 mm	6 mm	8 mm	6 mm
Discharge connection	M 35	M 35	M 35	M 50	M 50
Part no.	111 452.010	111 452.020	111 452.030	111 452.090	111 475.003

*Statements given about delivery reach and height are experimental values without obligation and depend on the type of material.

■ Standard equipment S 5^{EV}

Worm pump 2L6, manometer at delivery connections, electrical remote control with 20 m cable, wheel set with pneumatic tyres, standard tool and cleaning accessory.

■ Standard equipment S 5^{EVCM}

The same as for the S 5^{EV} but with mounted continuous mixer CM 928, control aggregate and level probe complete 42 V.

■ Standard equipment S 5^{EVTM}

The same as for the S 5^{EV} but with mounted plate mixer TM 100.

■ Standard equipment S 5^{EF}

The same as for the S 5^{EV}.

■ Standard equipment SP 5

Worm pump 1L6, manometer at delivery connections, cable remote control and pressure remote control, pump on/ off, 20 m extension cable, 180 l/ min pneumatic compressor, 15 m air hose ½", spray gun for base coat plaster V 35, standard tools and cleaning accessory.

■ Optional accessories

Plate mixer TM 100	111 353.002
Continuous mixer CM 928	111 254.004

Please refer to our catalogue for further accessories. Mail or telephone us for a free copy.

■ Putzmeister Mörtelmaschinen GmbH

The company is a 100% subsidiary of Putzmeister AG, registered headquarters in Aichtal near Stuttgart, Germany.

Since 1958, Putzmeister has been a manufacturer and world-wide provider of mortar machines, fine plaster spray and paint pumps, concrete pumps, tunnel machines, industrial pumps, large robotics for cleaning complex systems and facilities and of professional high-pressure cleaning systems. This strong network offers users and sales partners ideal conditions in terms of competence, investment security and optimum service in all areas.



■ Your Putzmeister-Partner



Worm pumps S 5 + SP 5



S 5 + SP 5

Real universal plastering machines are rare. Our worm pumps, type S 5 and SP 5 come pretty much close to one.

Their flexibility and reliability have been appreciated by plasterers and stucco workers worldwide for a very long time.

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MM 3319-7 GB

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For anything to do with mortar... worm pumps S 5 + SP 5



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■ General

No one order is like the other and it is certainly difficult to keep track of the huge variety of materials available. On top of that, conditions on the building sites vary from one to another, so all of these factors place a very heavy demand on the machinery used.

Each type of machine has its own individual strengths but not one of them can cope properly with all the requirements on site. Neither could many machines be called „allrounders“ – however, Putzmeister worm pumps S 5 and SP 5 are a rare exception.

These are truly allrounders – allowing universal application in both routine work as well as for special jobs.

■ Operation

Several features give the worm pumps an edge over all the others.

- continuously variable regulation of output
- additional modules for a further increase in the range of applications (only S 5)

This enables you to work just with one machine which can be optimally adapted to the respective situation at the lowest cost.

■ Variants

Our series of worm pumps comprises various models.

■ S 5^{EV}

This modular system is based on a high-performance worm pump with a 400 V drive. As the TM version (S 5^{EV}TM) it includes a mounted plate mixer for high-grade mixes. The CM version (S 5^{EV}CM) includes a continuous mixer which can be used for ready-mix mortar. The S^{EF} is special equipped for pumping of self-levelling floor screed.

■ SP 5

This worm pump has a 230 V alternating current drive. Compared with the S 5^{EV} the SP 5 has a preinstalled air compressor which is usually adequate for most applications.

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Worm pumps type S 5 and SP 5 can be used for all pumpable mortars up to an aggregate grading of 6 mm, whether as normal base coat plaster (large picture), as a decorative texturing plaster...

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...or for special applications, seen here being processed as fire-proofing mortar.

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But even liquid cement filler can be worked (here e.g. with an S 5^{EV}TM in a production hall).

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The worm pump S 5^{EV} – as varied as its daily applications



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The worm pump S 5^{EV} has been in use as a „bread-and-butter“ or standard machine in many plants worldwide for many years.

Thanks to the heavy-duty, robust 400 V variable drive, the worm pump can cope with mortar which is difficult to pump whereby the operator can regulate the output by means of the engine speed.

■ the standard model S 5^{EV}

The basis version is suitable for applications where mainly pumpable wet mortar up to an aggregate graining of 6 mm must be pumped or sprayed.

It forms the basis of the following extendable versions. The good thing about it is that the S 5^{EV} can be retrofitted at a later date to increase its efficiency even further.

■ the S 5^{EVCM} with mounted continuous mixer

This is the ideal machine for premixed dry mortar from the bag or silo.

The continuous mixer (CM 928) with 40 l/min mixing capacity is equipped with a heavy-duty electric drive with 5.5 kW performance which ensures mix type all kinds of premixed dry mortars with constant quality.

As a further extension, the S 5^{EVCM} can be connected directly to a silo or container whereby a level probe even takes over the fully-automatic mixer control.

■ the S 5^{EVTM} with mounted plate mixer

This variant is used for materials which require a particularly intensive mixing process.

The plate mixer (TM 100) has a volume of 80 l and a 1.9 kW electric drive. Worm pumps of the S 5 type are not equipped with their own compressor. The reason is simple and obvious – the amount of air required depends on the application, therefore the compressor is simply adapted to the respective use.

■ For refurbishing mortar spraying, you will need a compressor with a 1,200 to 1,500 l/min capacity.

■ To spray base coat plaster, approximately 200 l/min air is adequate.

■ For spraying of decorative, texture or skim coat you need at least 400 l/min air volume.

■ the powerful S 5^{EF}

This worm pump has a powerful constant drive for larger quantities of material up to 90 l/min, particularly suitable for self-leveling floor screed. Fitted with vibrating screen and vibrator.

■ Types of operation

This provides for an incredible variety of applications.

■ Standard applications

- base coat plaster
- scratch + decorative plaster
- texture plaster
- trowel plaster and bonding layer

■ Special applications

- bricklaying mortar
- refractory mortar
- insulation mortar
- injection mortar
- filling mortar
- self-levelling floor screed
- dispersion mortar
- fibrous and glass fibre mortar
- bonding mortar
- paint

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The S 5^{EV} is used in this case as a delivery pump for bonding mortar and reinforcement mortar. The material is premixed and filled into the pump.

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This S 5^{EVCM} (with continuous mixer) mixes, pumps and sprays premixed dry mortar.

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The powerful S 5^{EF} is ideal for pumping self-levelling floor screed up to 8 mm.

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The worm pump SP 5 – the „big“ pump for refurbishing mortar

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The SP 5 is the little sister of the previously described S 5^{EV}. From the outside, they are scarcely distinguishable, but „under the hood“ they are very different.

The SP 5 can be used anywhere where power is required, but only 230 V are available; as is, for example, the case on many construction sites where refurbishing is to be applied.

It is particularly critical when applying refurbishing mortar that large areas are worked quickly and to a high standard.

The SP 5 meets all these requirements. This is the „big boy“ under the worm pumps with a 230 V connection – a true substitute for 400 V machines.

■ Types of operation

Being a truly universal-purpose worm pump, it can deal with a variety of materials up to a particle size of 6 mm.

- one-coat mortar
- refurbishing mortar
- dispersion mortar
- injection mortar
- bonding mortar
- reinforcement mortar
- liquid filler ...

■ Operation

Depending on the material and particle size, the output must be adapted to the desired spray pattern simply by adjusting the engine speed.

On the SP 5, this is dealt with by a frequency converter which continuously regulates the output absolutely wear-free from 4 to 25 l/ min.

By the way, the SP 5 is the only machine in the universal-purpose pump series to have as standard an 180 l compressor – so you can get down to work straight away.

■ Optional accessories

Mortar hoses ID 25,
V 25-40, M 25-40:
length 5 m 207 803.000
length 10 m 207 804.009
length 15 m 207 966.001
length 20 m 207 806.007

Mortar hoses ID 25,
V 25-40+35:
length 5 m 207 808.005
length 10 m 207 809.004

Mortar hoses ID 35,
V 35, M 35:
length 2 m 070 335.006
length 13,3 m 207 615.007
length 20 m 209 950.003

Mortar hoses ID 50,
V 50, M 35, length 13,3 m 207 616.006
V 50, M 50, length 13,3 m 207 617.005
V 50, M 50, length 20 m 073 722.001

Air hoses Geka ½" ID
length 10 m 001 682.003
length 15 m 212 333.002
length 20 m 001 665.004
length 30 m 202 911.007
length 40 m 214 734.007

Standard spray guns ID 25-40:
straight 402 592
long (770 mm) 404 479

Texturing spray gun ID 25-40
with 4, 6 and 8 mm nozzle 208 751.009
Spray gun ID 35 001 306.004
Fine plaster spray gun ID 25 408 237
Refurbishing spray gun 207 283.002

Gun for applying adhesives
with electrical remote control 402 726

Compressor 400 V
Handy, 250 l/ min 000 235.008
V-MEKKO, 360 l/ min 205 767.009
Strocomp 864 111 593.011

Adapter Geka/ Ewo 402 289
Coupling V 35 203 135.002

Reducer coupling V35-V25-40 207 795.008

Geka Coupling ¼" 207 969.009

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For the SP 5 – currently the strongest 230 V worm pump available on the market – even larger-scale refurbishing jobs present no problems.

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When combined with a continuous mixer (CM 528), the SP 5 performs even better.

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Completely equipped including compressor. You can start work straight away with the SP 5 without the need for an auxiliary compressor.

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