

Worm pumps SP 11

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SP 11

SP 11 worm pumps really have to earn their keep on any building site. Robust and reliable, they are easy to operate in a large range of applications.

At the same time, they provide a degree of comfort in operation which is simply unparalleled. A variety of different mixing concepts means you will always have exactly the solution you require – and one which is kind to your budget!

PM Putzmeister
Mörtelmaschinen

MM 3565-1 GB

Worm pumps SP 11 – complete data

Model	SP 11 ^{DMT}	SP 11 ^{DMB}	SP 11 ^{DMR}	SP 11 ^{DQR**}
Mixer type	Bottom Dump	Swivel Discharge	Hydraulic lift	Hydraulic lift
Type of pump	2L6	2L6	2L6	2L6
Output*	5-55 l/ min	5-55 l/ min	5-55 l/ min	5-55 l/ min
Delivery pressure (theor.)*	25 bar	25 bar	25 bar	25 bar
Delivery distance*	120 m	120 m	120 m	120 m
Delivery height*	60 m	60 m	60 m	60 m
Air compressor	2 cylinder compressor, 3,5 bar, 330 l/ min suction capacity			
Diesel engine	3-cylinder 16,4 kW at 2.800 rpm		4-cylinder 21,4 kW at 2.800 rpm	
Weight	approx. 750 kg	approx. 750 kg	approx. 900 kg	approx. 920 kg
Length (without towbar)	2.690 mm	2.690 mm	3.097 mm	3.097 mm
Width	1.420 mm	1.420 mm	1.729 mm	1.729 mm
Height	1.136 mm	1.142 mm	1.136 mm	1.136 mm
Fill height	1.100 mm	1.142 mm	758 mm	758 mm
Part no.	111 453.080	111 453.010	111 453.020	111 453.030

*Information given is based on operational experience and dependant on materials used. **The SP 11^{DQR} can also be equipped with 2L74 and 3L7 worm and stator to provide it with enhanced pumping performance at higher pressures. Contact your Putzmeister consultant for more details.

■ Standard equipment SP 11

2L6 worm pump, pressure gauge at discharge, standard spray gun DN 35, operating instructions, standard tools, vehicle towing attachment

■ Optional accessories

Water metering device 213 324.007
(SP 11^{DMR} + SP 11^{DQR})
Water charging fitting 214 513.008
(SP 11^{DMT} + SP 11^{DMB})
High-pressure cleaner 405 561
140 bar (SP 11^{DMT} + SP 11^{DMB})
Cover 212 719.002
for control cabinet

Working light 425 037
12 V, 50 W socket
Stator 2L6 211 355.007
Clamping jacket 2L6 010 433.007
Worm 2L6 211 814.001
Electric remote control 262 506.009
12 V, 60 m on cable drum
Truck towing eye
un-braked 212 154.003
braked 212 700.004
Ball coupling vehicle
un-braked 212 153.004
braked 212 704.000
Set of lights 207 525.003

■ Mortar line (40 m, max. 40 bar)

2 x mortar hose 207 617.005
13,3 m, ø 50 mm
1 x mortar hose 207 616.006
13,3 m, ø 50/ 35 mm
1 x air hose 001 664.005
40 m, ø ½“
Standard spray gun 001 306.004
straight V35, short

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■ Putzmeister Mörtelmaschinen GmbH

is a member of the Putzmeister-Group based in Aichtal near Stuttgart.

Since 1958, Putzmeister has been manufacturer and worldwide supplier of mortar machines, concrete pumps and tunnelling equipment, industrial pumps, heavy-duty robotics for cleaning complex systems and installations; and high-pressure cleaning systems for professional use.

This strong union therefore offers both users and sales partners all

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For more than 40 years, the SP 11s have proven their worth on many a construction site

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General



Since 1962, worm pumps made by Putzmeister have been demonstrating their talents on construction sites worldwide.

The machines can slog away mixing, pumping and spraying site mortar and ready-mix mortar for as long as you want. Whatever the plastering job, their performance and reliability would be sorely missed on many site.

Worm pumps in the SP 11 series are simply quality products.

placed without problems through the pumps worm and stator. Just use the relevant type depending on the application, to guarantee the benefits of the worm pump's maximum performance, and minimum wear.

Fields of application



SP 11 type pumps are multi-functional and basically can be used to mix, pump and spray site mixes and ready-mix mortar up to 6 mm grain size.

The integrated eccentric worm pumps can also be used with extremely low-viscosity mediums, even self-levelling screed (SP 11^{DHF}), injections or back-fill materials (SP 11^{DOR}) can be

Operation



The reason for the success of SP 11 worm pumps is that they have been designed consistently for real day-to-day jobs on the site.

■ easy-to use hydraulics

One of the significant advantages of SP 11 worm pumps is that they are all equipped with hydraulic drive allowing the pumps output to be infinitely varied to the volumes needed.

This means the quantity of material to be delivered always corresponds exactly to requirements and provides thus optimal conditions for application.

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Worm pumps SP 11 have a particularly wide range of applications. They can work all types of job-site mixes, bagged plaster for inside and outside application and much more besides.

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They are suitable for use on small to medium-sized standard jobs as well as ...

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... for major special-purpose installations such as this renovation job on a concrete motor-way bridge in Italy.

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The SP 11 worm pump – a comprehensive range giving customers optimum choice

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The SP 11 can also be operated by means of remote control from the spray gun so you do not have to depend on the machine operator.

As the SP 11 units are hydraulically driven they automatically shut down or the pump run in reverse in the event of a build up of pressure in the delivery hose.

This means you can remove any blockages that occur in the delivery line or when the job is completed pump the remaining material back into the SP 11's hopper avoiding the nuisance of a dripping spray gun.

■ 3 different types of mixer

SP 11 units are fitted with 3 different types of positive - action mixer; bottom dump; sivel discharge and hydraulic lifting

Bottom dump (SP 11^{DMT}) is a simple, robust and cost-favourable version. The mixer is firmly fixed. The prepared material discharges through a trap door on the bottom of the mixer into the pump area of the SP 11.

Swivel discharge (SP 11^{DMB}) swivels over the longitudinal axis of the mixing shaft. As soon as the material has been mixed, simply unlock and tilt the mixer allowing the material to flow into the pumping hopper. When the mixer is then tipped in the other direction it can easily be cleaned.

Hydraulic lift (SP 11^{DMR} + SP 11^{DOF}) achieved by the simple push of a button. The mixer is firmly mounted to the side of the SP 11.

The filling in height is therefore reduced to just 75 cm, which takes the load off the operator's back. As soon as the material is ready for use the mixer is raised hydraulically and tips the mixture into the pump-

ing hopper. It really couldn't be any easier than that!

■ the targa bar

We have equipped our SP 11 worm pumps with the Targa system in which the whole of the electrics are to be found in one area, the so-called Targa bar.

The result is a clean separation of individual areas (drive, motor and mixer/ pump) and that in turn means easier servicing and protection for the electrical parts.

All the operating and control elements required for operating the SP 11 are clearly arranged in the Targa bar in the centre of the control cabinet which means you have everything in sight and reach.

■ the powerful diesel

SP 11 worm pumps are driven by a particularly powerful and, at the same time, robust diesel engine. That means you get an enormous performance from the very start which is of special benefit, when working with heavy-density material.

This high-level performance brings other benefits, too. It will seldom happen that you will have to bring the SP 11 to its very limits as you will mostly be working with relatively low r.p.m. Again, besides not placing the motor under stress, there is less noise pollution – and you save fuel.

A high-performance water cooling system makes sure of correct operating temperature of the motor and the hydraulics under extreme job conditions.

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Simply choose the best one for your job from the three mixer types. The robust and cost-favourable flap mixer for the SP 11^{DMT}.

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The swing mixer for the SP 11^{DMB} is comfortable to operate and makes light work of difficult jobs.

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But that is by no means all! This SP 11^{DMR} has a lift mixer with powerful hydraulics to carry out the job.

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SP 11 worm pumps – easy to operate, powerful performance and consistently practice-friendly

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Our SP 11 worm pump is, by the way, also available with a low-noise electric motor.

Machines such as these become interesting when noise levels on site have to be kept to as low a level as possible.

Maintenance and service



You will find out exactly how good they are in practice when you take a look at your service and maintenance bills!

All of the types in this series have been designed using only robust and long-life components and that is why SP 11 worm pumps are among the most reliable plastering machines.

The installed diesel engines (Kubota) for example in the heavy-duty series have proven their long service life and reliability in many construction machines literally thousands of times.

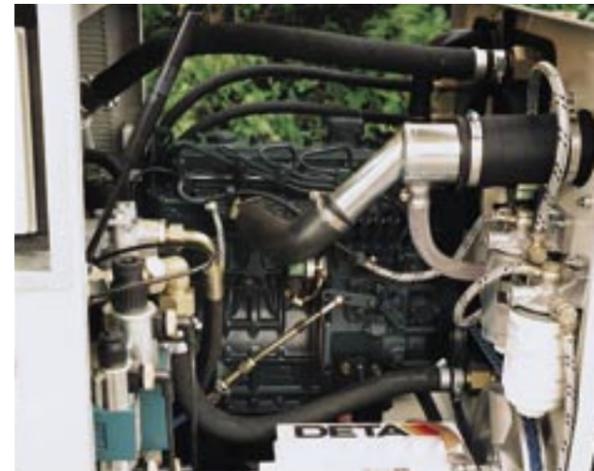
In some cases, we have simply done without wearing parts altogether. The hydraulic pump is not driven over a fan belt but is flanged directly to the diesel engine – so, what is not there, cannot wear out!

Maybe, sooner or later, you will have to take a look at the “insides” of your SP 11? No problem. The light-weight hood can be opened extremely wide to provide you with easy access to all the interior parts. Just one of the reasons, why you can save up to 50% in time when replacing any of the very few wearing parts, such as the oil filter or the air filter.

On request, we can install a highly powerful high-pressure cleaning device. Driven by oil hydraulics and theft-proof, you can use it to pressure clean your SP 11 with 140 bar water when the job has been completed.

One of the practical details: The water connections for the high-pressure cleaner are mounted on the outside of the machine so during the cleaning operations, the hood can remain closed and the inside remains clean and dry.

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A modern diesel engine with attached hydraulics provides sufficient power to your SP 11 at every r.p.m.

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The centrally installed control panel allows you to control and recognize all the functions of the machine.

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Pressure-clean your SP 11 using the built-in high-pressure cleaner and 140 bar water when the job has been completed (swivel discharge series).

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