

*Ecological building - do with us
processing clay with an efficient workflow*



UMP 1
L-Power

**Deutsche
Fördertechnik** 

baustarke Technik

UMP 1 *L-Power*

Ecological building with an efficient workflow

The UMP 1 is a continuously operating mixing pump. We developed it as an L-Power Version specifically for the processing of natural clay. The machine allows clay plaster to be mechanically processed in a high quality manner and in only one work process. Finally, construction with natural clay material has become more efficient and more cost-effective. This is especially accomplished by dispensing with time-consuming steps. For example, stirring in a paddle mixer and further lot-for-lot processing are no longer needed. The UMP 1 L-Power machine allows for a continuous material flow which makes working with clay plaster as easy and as comfortable as with conventional mechanized construction materials. Fill the machine with loam directly from the big-bag, set the desired material consistency, and apply it directly to the wall with the sprayer. Finished – that’s how easy it is to plaster with clay material.

But the UMP 1 L-Power can do even more. On the one hand it is especially designed for use with clay plaster but, on the other hand, it is equally suited for the breadth of work with conventional mechanized construction materials. To achieve this, you merely need to exchange the material container and just like that even industrial construction materials can be processed with high quality. Additionally the UMP 1 L-Power version dual has an switchable power mode. You can switch between 230 V, 16 A or a 400 V, 16 A operation mode for an maximum flexibility at construction site.

UMP 1 L-Power optimizes clay plaster applications; and can be used universally for stirring and plastering conventional construction materials. Small, handy, comfortable – the UMP 1 L-Power allows for more efficient environmentally friendly construction.

Work with the flow - efficiently and ecologically

UMP 1 *L-Power*





technical data & significant details of UMP 1 L-Power

drive	4,0 kW
power supply distribution box	400 V, 50 Hz
fuse protection	3 x16 A slow-blow fuse
pumping capacities with D-pumps	ca. 6 l - 35 l/min
pumping capacities with R-pumps	ca. 35 l - 65 l/min
water pressure in operation	min 2,5 bar
water supply	3/4 " with Geka-coupling
conveying distance max. with NW 25	25 m with plaster
conveying distance max. with Nw 35	35 m - 40 m plaster/50 m floating screed
operating pressure	max. 30 bar
filling height material container	730 mm
material container content	115 l
total length	1710 mm
total width	650 mm
total height	780 mm
total weight	ca. 157 kg
remote control	via air or control voltage

Minimized frame size and low weight make more flexible and simple transport facilities



Optimized size... for an easy handling



total width 650 mm

weight only
157 kg
157 kg

For operation at construction site,
for changing position or transport to and from,
the UMP 1 L-Power make sure
an easy handling always.

From professional for clay to a general use easy - quick - in comfort

The standard material container for processing conventional mechanized construction materials



UMP 1 with the replaced standard material container



UMP 1 L-Power with the material container for processing clay plaster



Quick and easy finished for a general usage

The replacement of the special material container for clay plaster against the standard material container it's easy to handle. Here we go for working with conventional mechanized construction materials.



That's possible - examples of application

Possible applications for UMP 1 L-Power with the material container for clay plaster:

- earth-moist and dry clay plaster
- earth-moist and dry clay plaster finishing coat
- pump up insulation mortar on a basis of clay
- pump up rammed clay with respect to grain size

Possible applications with the replaced standard material container:

- usage as mixing pump, plastering machine, conveying pump, continuous mixer, for grouting or as a screed machine/screed pump
- for factory pre-mixed, machinable materials in powder form or pasty materials and much more

UMP 1 extras - for a higher flexibility anymore with dual operation mode 230 V/400 V



Modified technical details for a dual operation mode:

drive:

three-phase motor 4,0 kW

power supply:

230 V/50 Hz oder 400 V/50 Hz

fuse protection:

1 x 16 A + 1 x 10 A
or 3 x 16 A slow-blow fuse

The UMP 1 L-Power 230 V/400 V switchable, can be used for working with 230 V/16 A also for operation with 400 V/16 A three-phase electric power.

The user is able to choose between the needed operation mode in each case.

In the 230 V, 16 A operation mode the performance it's the same as in 400 V mode, that's why you can use it anywhere there is no 400 V power supply.



UMP 1 extras - for a higher flexibility anymore integrated booster pump

4-times plus

1. autonomy

The built-in booster pump for water enables a machine operation without a connection to a water supply system. By way of example you can work with water from a barrel.

2. constancy

It keeps a constant water pressure in case of varying water pressure conditions at construction site.

3. automatic mode

In operation with UMP 1 L-Power there is an automatic switch on/switch-off as needed for usage.

4. operation alternatives

You can use it in a manual mode too for water supply at construction area.

Altogether a solution for maximum flexibility.



On the subject of environment protection: Our construction machine engineering in ecological terms



Environment protection concerns us all. Of course we trying hard to do a lot of things for environment protection.

So environmental aspects included in machine conception and production process. There lots of considerations with the UMP 1 machine conception to go easy on resources.

Here a few future-oriented ecological aspects:

Choosing manufacturing location

We produce in Germany in the federal state Saxony. So we secure jobse here and reduce the logistical effort. It go easy on energy and natural resources.

UMP 1 series - one machine maximum possible uses

As the name universal mixing pump - UMP in German - suggests, these machine series offers variable areas of use such as mixing pump, plastering and clay plaster machine, sreed pump, conveying pump, continuous flow mixer and machine for grouting.

UMP 1 also offers a wide range of options for the materials to be processed that, with just a simple retrofit of the UMP1 L-Power, the clay rendering special machine, can be further extended to more conventional construction materials.

Result: For a lot of uses you need only one universal machine. That implies that energy and logistics potential plus natural resources will be saved.

UMP 1 under high scrutiny for ecology

Concrete contributions for environment

Minimized demand for raw materials

As an absolute lightweight with only 157 kg, the UMP 1 L-Power has much less weight than other comparable mixing pumps. Also the frame size is minimized and optimized. As a result there is needed lower floor space for the transport and it's possible to extend the vehicle load capacity.

Reduced CO₂-emission

The CO₂-emissions while using UMP 1 mixing pump could be reduced. It's up to 45 percent lower as in case of other technology with the same performance.

Lowered energy needs while using

There is a reduction of energy consumption during the mixing and pumping process. It's only 4,0 kW with an adequate performance comparable with a 5,5 kW mixing pump

Minus at noise emission during usage

In the matter of noise protection it's a good working with the UMP 1 machine series too. The continuous sound level it's only 70 +/- 1 dB. So it's possible to use in residential areas easily.





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