Pre-mixers for injection moulding, blow moulding and extrusion

Pre-mixer for injection moulding machines, type G, Kö 2, Z 5, 608 and control unit
Mixing plastic material for injection moulding

Pre-mixer type KK
A pre-mixer for machine throughputs up to 25 kg/h
Shot weights up to 200 g
You should use a pre-mixer both for dosing of powder and for extremely accurate masterbatch processing. If regrind is also part of the equation, this is the surest way to go. All that’s missing now for a fully automatic operation is a conveyor unit. The small pre-mixer unit fits on all machines.
Mixer made of die-cast aluminium, abrasion-resistant.

Pre-mixer type G
A pre-mixer for machine throughputs up to 70 kg/h
Shot weights up to 900 g
An economical unit designed for medium processing capacity. Up to four different components can be processed in the modular system. Add a conveyor unit by KOCH and you are ready for a trouble-free automatic operation.
Mixer made of die-cast aluminium, abrasion-resistant.
Pre-mixer type V 12
Pre-mixer for machine throughputs up to 100 kg/h
Shot weights up to 1,5 kg
Available here are also dosing units for liquid colours, powder, masterbatch, virgin material or regrind in conjunction with the matching conveying units.
The mixing body is made from V 2 A (highest-quality stainless steel).

Pre-mixer type 25
Pre-mixer for machine throughputs up to 250 kg/h
Shot weights up to 4 kg
Designed for medium-sized processing capacities with 25 litre capacity, made of stainless steel suitable for up to four components.
The mixing body is made from V 2 A (highest-quality stainless steel).

Type V 40 not shown (comparable to type V 25)
Pre-mixer for machine throughputs up to 400 kg/h
Shot weights up to 7 kg
Made of V 2 A (highest-quality stainless steel) this machine is intended to cope with large and really large processing capacities.
Up to four different components can be processed.
Performance data – pre-mixers for injection moulding machines

**Total processing capacity:** type KK
- powder and virgin material max. 20 kg/h
- masterbatch max. 25 kg/h

**Shot weight**
- with powder max. 150 g
- with masterbatch max. 200 g
- connected value approx. 0,1 kW
- number of stations max. 3

**Total processing capacity:** type G
- powder and virgin material max. 60 kg/h
- masterbatch max. 70 kg/h

**Shot weight**
- with powder max. 700 g
- with masterbatch max. 900 g
- connected value approx. 0,15 kW
- number of stations max. 4

**Total processing capacity:** type V 12
- powder and virgin material max. 80 kg/h
- masterbatch max. 100 kg/h

**Shot weight**
- with powder max. 1000 g
- with masterbatch max. 1500 g
- connected value approx. 0,2 kW
- number of stations max. 4

**Total processing capacity:** type V 25
- powder and virgin material max. 200 kg/h
- masterbatch max. 250 kg/h

**Shot weight**
- with powder max. 2000 g
- with masterbatch max. 4000 g
- connected value approx. 0,25 kW
- number of stations max. 4 - 5
Performance data – pre-mixers for extruder and other machines

<table>
<thead>
<tr>
<th>Total processing capacity:</th>
<th>type G x</th>
<th>type G x 7</th>
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<tbody>
<tr>
<td>powder</td>
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<tr>
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<td>40 kg/h</td>
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<tr>
<td>masterbatch</td>
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<td>60 kg/h</td>
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<table>
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<th>type V 12 x</th>
<th>type V 25 x</th>
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<tbody>
<tr>
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<td></td>
<td>180 kg/h</td>
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<td>masterbatch</td>
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<td>250 kg/h</td>
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<td>connected value</td>
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<table>
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<th>type V 60 x</th>
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<td>400 kg/h</td>
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<td>masterbatch</td>
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<td>500 kg/h</td>
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<td>connected value</td>
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<td>4 - 6</td>
<td>4 - 6</td>
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</table>
Pre-mixers for extruders and other machines

**Pre-mixer type G x**
*For machine throughputs up to 60 kg/h*
Pre-mixer for extruders and blow moulding machines. Dosing is batchwise. If the material level falls below a certain point, all the stations accurately dose a set quantity into the mixer. It is irrelevant whether the output from the machine is regular or irregular. The colour always remains consistent.
Up to three dosing stations attached to the mixer.
Mixer made of die-cast aluminium, abrasion-resistant

**Pre-mixer type G x 7**
*For machine throughputs up to 120 kg/h*
Up to four dosing stations can be fitted; comparable to Type G x, mixer made of die-cast aluminium, abrasion-resistant

**Pre-mixer type V 12 x**
*For machine throughputs up to 250 kg/h*
Another batch metering unit for largest capacities. Up to four components can be processed without difficulty. Whether powder, granulate or regrind – the same excellent results are achieved. All that is required to convert the system to trouble-free operation are matching conveyors.
The mixer is made from V 2 A (highest-quality stainless steel).

**Pre-mixer type V 25 x**
*For machine throughputs up to 350 kg/h*
Comparable to Type V 40 x, suitable for four dosing stations.
The mixer is made from V 2 A (highest-quality stainless steel).

**Pre-mixer type V 40 x**
*For machine throughputs up to 500 kg/h*
Here too, metering takes place in batches. Up to a maximum of four dosing stations or alternatively six stations can be fitted to the pre-mixer unit. A material change requires just a minute to slide the stations away from the mixer and a further minute to swivel away the conveyors. And all this without the need to resort to tools, saving both time and effort.
The mixer is made from V 2 A (highest-quality stainless steel).

**Pre-mixer type V 60 x**
*For machine throughputs up to 1000 kg/h*
Comparable to V 40 x, but higher.

**Pre-mixer type V 100 x**
*For machine throughputs up to 1500 kg/h*
Comparable to V 40 x, but higher.
Control units

Control unit type SL 31 (not shown)
KOCH control device for one station
For connection to injection moulding machines: the feed and mixing times are controlled for every production cycle.

Control unit type SL 42
KOCH control unit for 2 stations
Key features:
- Simple, user-friendly operation
- Clearly laid-out operating panel with keyboard and text display
- Memory for up to 100 recipes
- Optional RS 422 data interface
You can enter the shot weight and the percentage values for the dosing directly via the operating panel. The unit calculates the necessary dosing times automatically.
A restart program makes the automatic filling of the mixer easier when there is a switch to a new material.

Control unit type MCm (microprocessor control unit)
KOCH microprocessor control unit for 4 or 8 devices
Key features:
- Easy and user-friendly to operate
- Clearly laid-out operating panel with keyboard and text display
- All the operating data is stored and can be retrieved at any time
- Memory for up to 100 recipes
- Programs for virgin material and ground material
- Interface to an external data processing system or a printer
The unit controls and monitors all the workflows you specify. You enter the material to be processed into the unit and follow that with the required percentages. The MCm control system calculates the exact feed rate automatically.
All the operating data is stored in an internal memory for retrieval at any time. This is particularly important if there is an obligation to provide proof of standards in certified businesses.