Speedmix™ Batch Mixer.

AHML.

Innovations for a **better world.**

BÜHLER

Speedmix™ Batch Mixer.
AHML.

Speedmix™.
Flexibility and optimal mixing results.

Application.

The Speedmix™ is suitable for processing all free-flowing dry solids encountered in the feed and food industries as well as in the chemical engineering industry. Depending on operation, it allows mixing with different loading degrees. In processing dry solids, the same mixing quality is achieved with any value between 10 and 100 % of the maximum loading degree. In addition, a soft-starter allows the machine to be started under full load.

The Speedmix™ is available in versions holding between 1,000 and 10,000 liters (see page 7).

Short mixing time and optimal mixing quality.

The optimized geometry of the mixing trough and the matched paddle shape reduces the mixing time to 90 seconds. This also substantially improves the homogeneity of the mixed product. The homogeneity is characterized by a variation coefficient (CV) of 2 – 5 % at a mixing ratio of 1 : 100,000.

Short discharge time.

The twin discharge gates reduce the discharge time to less than 10 seconds. The reduced discharge time and the fast emptying of the mixer thus allow up to 20 mixing cycles per hour.

High sanitation standards.
Mixing with very low residues.

Low cross-contamination.

The interior of the mixer and the mixer paddles allow quick and easy cleaning.

Moreover, the outlet opening extending across the full length of the trough in conjunction with the ideal trough geometry minimize product residues (dry ≤ 0.05 %) and thus diminish the risk of cross-contamination. The twin outlet gates in all design versions are made of non-corroding steel.

In addition, the overlapping outlet gates, which are provided with profiled rubber seals, are also tight when processing powdered materials ≤ 100 microns.

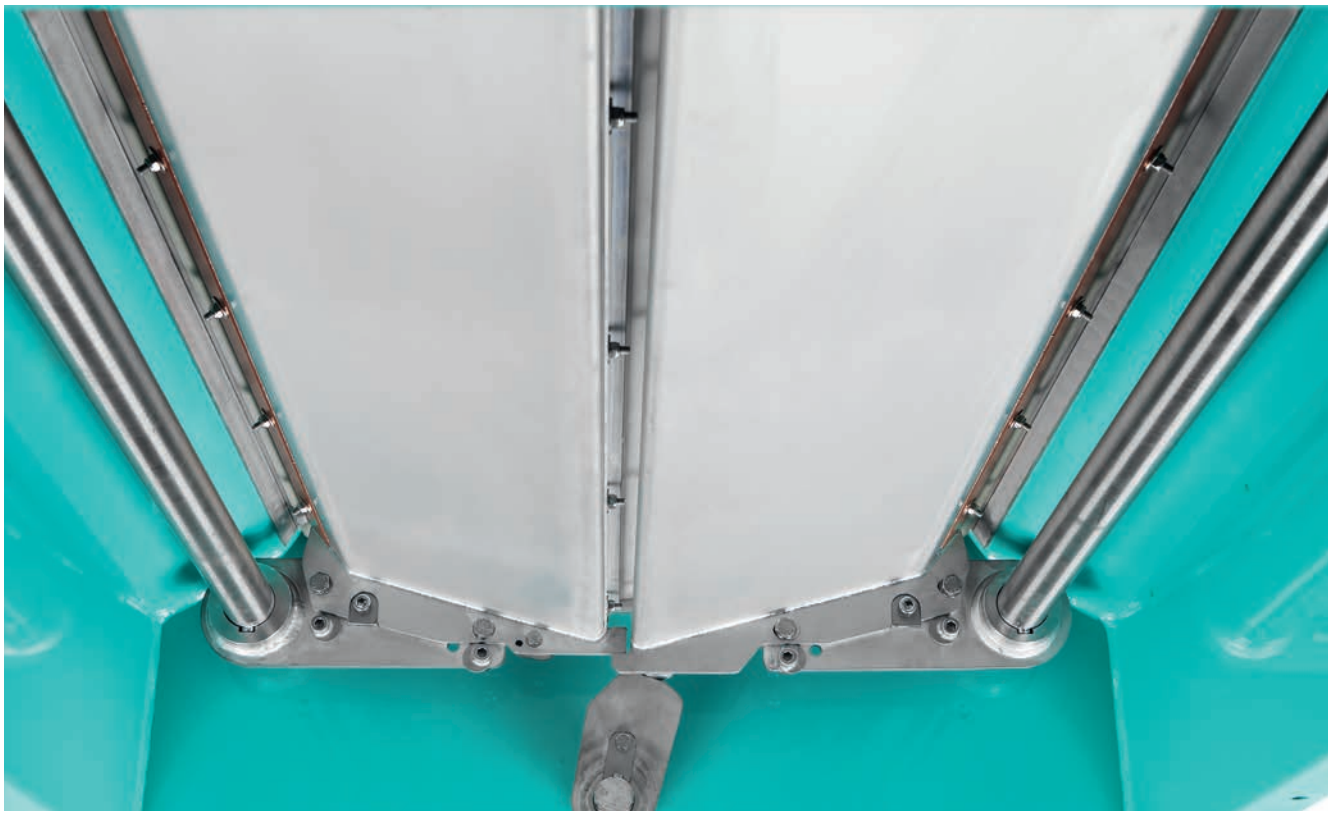
Customer value.

- Short mixing time of 90 s
- Consistent mixing quality CV 2–5 %
- Short discharge time ≤ 10 s
- Low cross-contamination ≤ 0.05 %
- Low maintenance requirement
- Liquids addition of ≤ 5 %

Minimum maintenance.
Smartly designed wear parts.

Low maintenance requirement.

Worn-down paddles can be individually readjusted or replaced. This significantly reduces the cost of maintaining the mixing tool. In addition, the shaft mounted gearmotor drive does not require any maintenance apart from oil changes, and only a short time is required for exchanging the split shaft seals. Furthermore, the large lateral door offers easier access to the interior of the mixer for maintenance and cleaning.



Liquids addition.

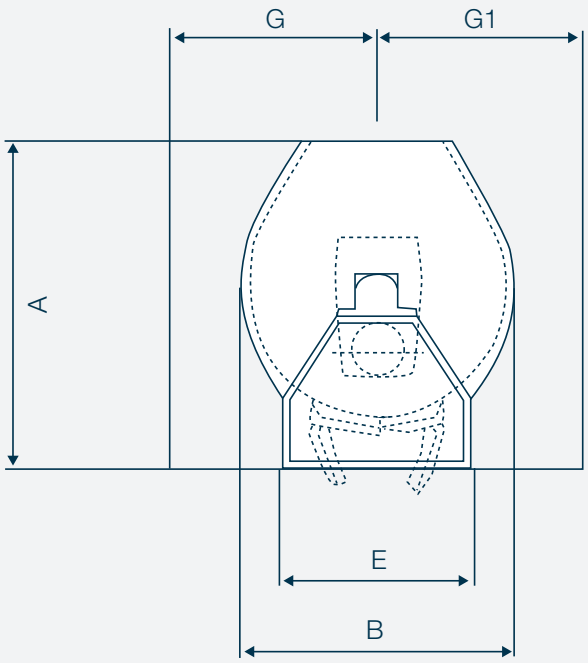
Depending on the specific nature of the material and the liquid to be mixed, the Speedmix™ is capable of admixing ≤ 5 % liquid. Spray systems purpose-designed for this mixer are available:

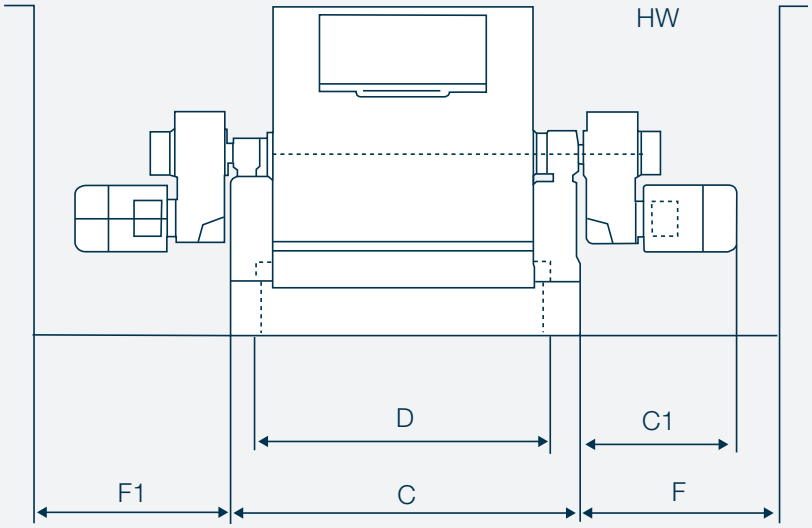
– Single spray pipe for addition of 1 liquid.
– Twin spray pipe for simultaneous addition of 2 liquids.

The spray pipes are equipped as standard with electrical heating pads. The heat reduces the viscosity of the liquid as a function of its specific characteristics and prevents chocking of the lines and nozzle, reducing the liquids injection time.

To facilitate nozzle changing and cleaning, the entire spray pipe can be swung up. Correct setting of the spray angle during start-up enables the product to be efficiently wetted and undesirable residues to be prevented.

Compact design.
Flexible application.





Technical data, dimensions.

		AHML 1000		AHML 2000		AHML 6300	
		HW	HW	HW	HW	HW	HW
Motor	kW	11.15	18.5	15	22	2 x 18.5 2× 22	2× 30
A	mm	1504	1504	1854	1854	2706	2760
B	mm	1262	1262	1564	1564	2230	2230
C	mm	1658	1658	1988	1988	2780	2780
C1	mm	778	920	844	969	945	1064
D	mm	1400	1400	1710	1710	2420	2420
E	mm	1020	1020	1180	1180	1660	1660
F	mm	1260	1400	1370	1500	1800	1800
F1	mm	800	800	800	800	1800	1800
G	mm	1150	1150	1300	1300	1570	1570
G1	mm	850	850	1000	1000	1330	1330
Net weight	kg	1150	1150	2000	2000	6000	6000

		AHML 4000		AHML 8000
		HW	HW	HW
Motor	kW	22	37	2 x 45
A	mm	2345	2345	2943
B	mm	1968	1968	2520
C	mm	2498	2498	3090
C1	mm	960	1111	1082
D	mm	2130	2130	2640
E	mm	1460	1460	1950
F	mm	1650	1800	1800
F1	mm	800	800	1800
G	mm	1500	1500	1900
G1	mm	1200	1200	1800
Net weight	kg	3800	3800	8200

HW: hollow shaft
VW: solid shaft

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