

Plastics Processing

WAH Continuous Single Shaft Mixers



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Description ▼

WAH is a Continuous Horizontal Single Shaft Mixer suitable for dry bulk solids (powders, granules, short fibres), dry bulk solids + liquids (conditioning & granulating), sludges and pastes.

WAH Mixers operate on the principle of a mechanically generated fluid bed. Ploughshare or shovel-shaped mixing tools rotate close to the horizontal, cylindrical drum casing lifting the components to be mixed from the product bed into the open mixing area. The quality of the mixture is achieved before the product reaches the mixer outlet.

Function ▼

The horizontal single shaft mixer WAH is based on the principle of mechanical fluidisation of the product.

The particular shape, position and rotation speed of the mixing tools, creates a centrifugal vortex motion, which allows the products to be projected in a three-dimensional way and to merge with each other.

This ensures that components with different particle size and bulk density are perfectly blended and mixed with high precision within the shortest possible time.



Application ▼

Processing of all kinds of PVC, resins, thermoplastic resins, thermosets, compounds, melts, pastes or solutions.

For various applications in the plastics industry, process-specific solutions are offered by MAP® in the fields of polymerization, mixing, homogenizing, dispersing, emulsifying, compounding, coating, agglomerating, conditioning, heating/cooling and melting.

MAP® mixers are used for the production, stabilization, preparation and product feature adjustment of plastic materials (thermoplastics, thermosets, elastomers, resins).

Benefits ▼

- ✓ **Maximum mixing homogeneity;**
- ✓ **High speed mixing (short mixing time);**
- ✓ **Low material residue;**
- ✓ **Minimum wear/low maintainance;**
- ✓ **Easy access to all internal parts of the mixer;**

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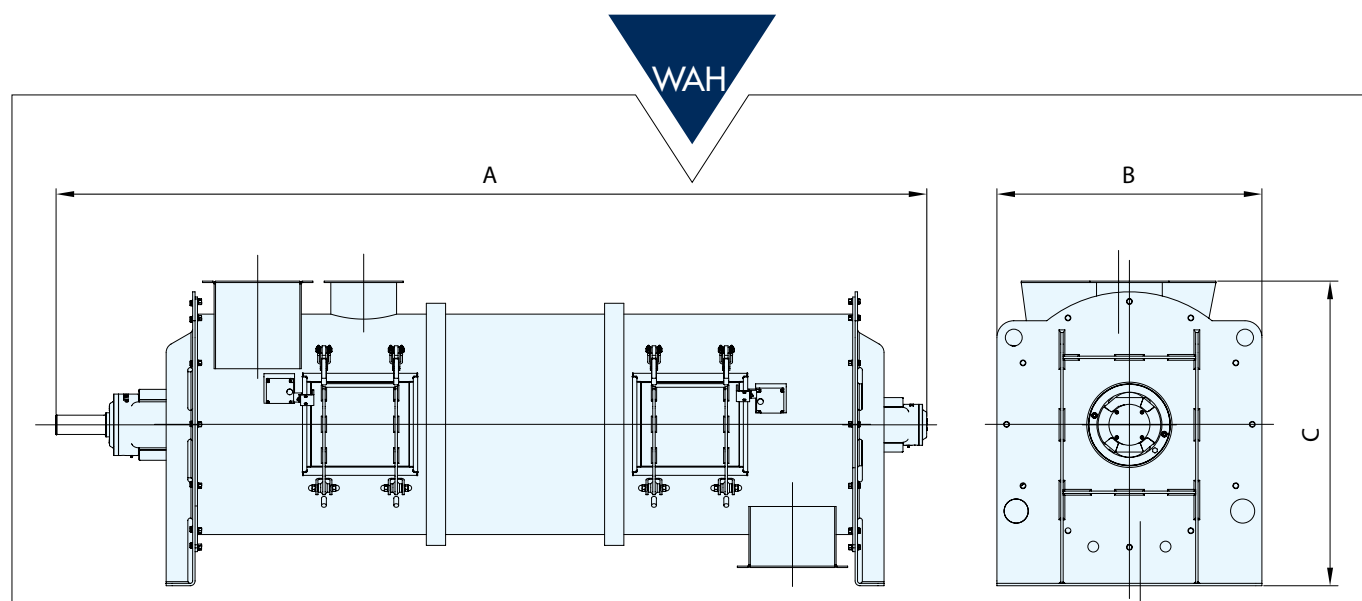
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Technical Features / Performance ▼

- ▶ From 75 up to 15,000 litres volume
- ▶ Different construction materials
- ▶ Different types of mixing tools

Overall Dimensions ▼



| | A | B | C | 50% dm^3/h Residence Time | | Empty Weight (kg) |
|-----------|-------|-------|-------|--|---------|----------------------|
| | | | | 60 s | 180 s | |
| WAH 00075 | 1,690 | 485 | 556 | 2,022 | 674 | 210 |
| WAH 00150 | 1,960 | 570 | 634 | 4,031 | 1,344 | 350 |
| WAH 00300 | 2,220 | 670 | 801 | 7,892 | 2,631 | 580 |
| WAH 00500 | 2,550 | 770 | 920 | 13,716 | 4,572 | 840 |
| WAH 01000 | 3,140 | 930 | 1,118 | 27,993 | 9,331 | 1,390 |
| WAH 01800 | 3,670 | 1,100 | 1,265 | 50,170 | 16,723 | 2,100 |
| WAH 03000 | 3,920 | 1,340 | 1,472 | 82,577 | 27,526 | 2,800 |
| WAH 04800 | 4,510 | 1,500 | 1,800 | 134,281 | 44,760 | 3,800 |
| WAH 06000 | 4,816 | 1,600 | 1,860 | 165,708 | 55,236 | 4,500 |
| WAH 08800 | 5,325 | 1,810 | 2,133 | 245,796 | 81,932 | 5,840 |
| WAH 10500 | 5,580 | 1,910 | 2,237 | 295,322 | 98,441 | 6,600 |
| WAH 15000 | 6,090 | 2,110 | 2,465 | 411,885 | 137,295 | 8,200 |

DS.310.WAH-EN-December 2012/01 Rights reserved to modify technical specifications.

This datasheet might not show the complete range but only the models most suitable for the application.