

Biscuit Processing

WBH Batch-Type Single Shaft Mixers for Biscuit Processing



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Description ▼

WBH batch-type mixers consist of a single horizontal shaft equipped with ploughshare or shovel tools, housed in a tubular mixing drum. The machines come with one or more inlets, an outlet with a central discharge port, a venting spout, two drum closing end plates that carry flanged end bearing assemblies complete with integrated, air or gas-purged shaft seal, and a drive unit complete with power transmission.

Function ▼

WBH horizontal single shaft ploughshare mixers work on the principle of mechanical fluidisation of the product. The particular shape, position and rotation speed of the mixing tools, create a centrifugal vortex motion, which allows the ingredients to be projected in a three-dimensional way and to merge with each other. This ensures that ingredients with different particle size and bulk density are perfectly blended and mixed with high precision within the shortest possible time.



Application ▼

WBH mixers installed in the raw material buffer storage and milling area of a biscuit processing plant.

Benefits ▼

- ✓ High mixing homogeneity;
- ✓ High speed mixing;
- ✓ Low material residue;
- ✓ Minimum wear/low maintenance;
- ✓ Easy access to all internal parts;
- ✓ Top quality mixing;
- ✓ ATEX-certified;
- ✓ Attractive price.

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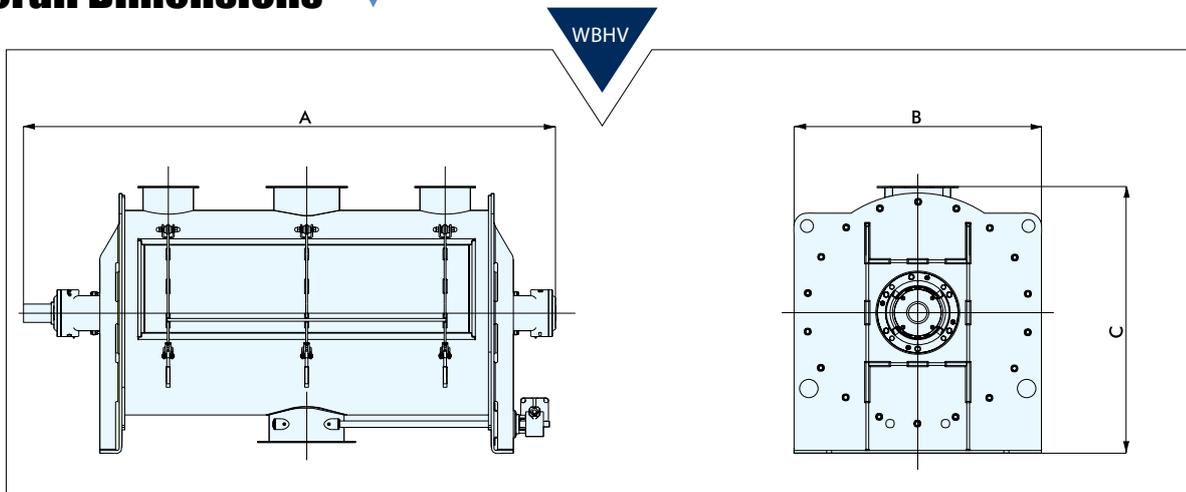
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Technical Features / Performance ▼

- ▶ Sizes: 75 to 25,000 litres
- ▶ Drive units: 4.0 kW to 300 kW
- ▶ Mixing capacity: 2 to 18 batches per hour (depending on recipe and unit configuration)
- ▶ End bearing assemblies with various types of shaft seals and air or nitrogen purging
- ▶ Central discharge valve
- ▶ Heavy-duty mixing chamber manufactured from carbon steel or 304L or 316L stainless steel
- ▶ Jacketed chamber
- ▶ Chopper bearing assemblies with air or gas-purged rotary shaft seal
- ▶ Liquid injection device
- ▶ Decompression control panel
- ▶ Pneumatic sampling device
- ▶ PT 100 temperature probe on jacketed mixing chamber
- ▶ Wide range of mixing tools
- ▶ Automatic cleaning system

Overall Dimensions ▼



TYPE	A	B	C	Usable Volume (dm ³)	Empty Weight (kg)
WBHV 75	1,300	611	649	56	245
WBHV 150	1,460	670	754	105	350
WBHV 300	1,840	770	889	210	550
WBHV 550	2,150	930	1,075	385	840
WBHV 800	2,350	980	1,151	560	1,080
WBHV 1100	2,690	1,100	1,278	770	1,400
WBHV 2000	2,920	1,340	1,455	1,400	2,100
WBHV 3000	3,920	1,340	1,455	2,100	2,800
WBHV 4800	4,520	1,500	1,750	3,360	4,300
WBHV 6000	4,820	1,600	1,860	4,200	4,800
WBHV 8800	5,390	1,810	2,130	6,160	5,800
WBHV 10500	5,630	1,910	2,160	7,350	6,900
WBHV 15000	6,124	2,110	2,445	10,500	8,200
WBHV 20000	6,617	2,312	2,665	14,000	11,903
WBHV 25000	6,888	2,432	2,735	17,500	13,653

Indicative dimensions (mm)