

Batch-type Single Shaft Mixers With Bomb-Bay Discharge

WBHT / WBHP



CERTIFIED

Foods	Plastics	Minerals	Cosmetics	Chemicals	Metallurgy	Animal Feed
Organic Materials	Pharmaceuticals	Building Materials	Environmental Technology			


MIXTURE DISCHARGE IN THE SHORTEST TIME POSSIBLE

The WBH Batch-Type Single Shaft Mixer is the ideal machine for producing top quality mixtures in perfectly reproducible batches. Over the last four decades, MAP® has supplied thousands of mixers to a wide variety of industries all over the world. Mixing tests for customers are performed in the Group's own laboratories worldwide.

In addition to the features of standard WBH mixers, WBHP and WBHT-type Bomb-bay Discharge Mixers ensure instant product discharge with a residue of less than 0.1% depending on the product mixed. A bomb-bay discharge is mandatory if discharge time has to be reduced to the minimum.

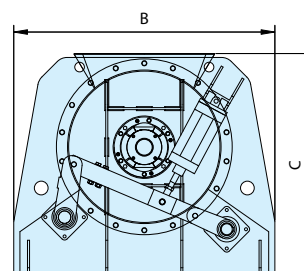
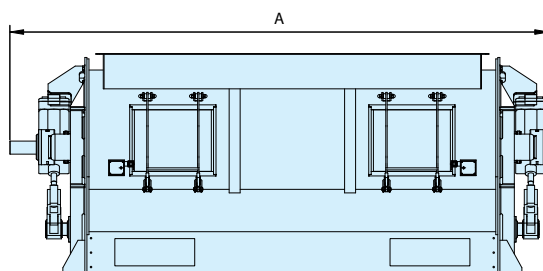
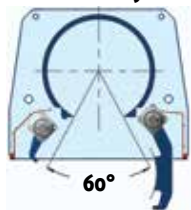
ATEX-certified machines are available that can operate in "zones" (according to the classification of the ATEX directive) with dust and gas explosive atmospheres, even in the presence of conductive powder

Technical Features

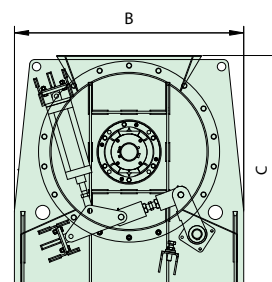
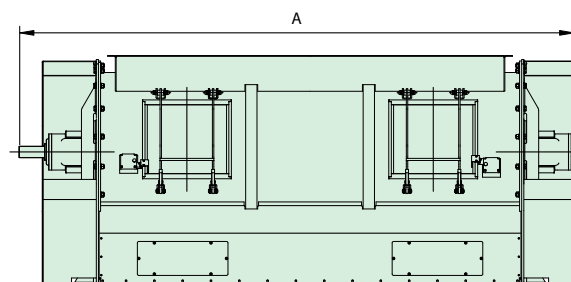
- Capacity: 165 ~ 10,500 litres per batch
- Mixing ratio: 1/100,000
- Variation coefficient (CV): between 3 and 5
- Mixing chamber for temperatures of up to 150 °C (302 °F) and 3.0 bar (43.5 PSI) absolute pressure
- Optional liquid addition
- Operating atmospheres: group IIB for gas, group IIIC for dust
- ATEX-certified devices 
- ATEX certification compatible with all finishing materials for tools and chamber

Overall Dimensions

WBHT
60° Bomb-bay Door



WBHP
15° Bomb-bay Door



Model	A	B		C	Working Capacity (l)	Empty Weight (kg)	
		WBHT	WBHP			WBHT	WBHP
550 □	2,150	1,250	1,250	1,200	155 ~ 385	690	650
800 □	2,350	1,200	1,200	1,250	215 ~ 560	850	810
1100 □	2,620	1,500	1,350	1,500	315 ~ 770	1,200	1,100
1600 □	2,620	1,500	1,350	1,500	485 ~ 1,150	1,200	1,100
2000 □	2,920	1,900	1,500	1,650	551 ~ 1,400	2,400	2,280
3000 □	3,920	1,900	1,500	1,650	825 ~ 2,100	3,000	2,550
4800 •	4,550	2,000	1,780	1,790	1,340 ~ 3,360	3,800	3,600
6000 •	4,870	1,960	1,820	1,900	1,650 ~ 4,150	4,400	4,200
8800 •	5,390	2,200	2,000	2,200	2,450 ~ 6,150	5,300	5,050
10500 •	5,630	2,400	2,110	2,430	2,950 ~ 7,350	6,900	6,500
15000 •	6,130	2,800	2,380	2,530	4,100 ~ 10,500	8,000	7,600

□ Pneumatically operated bomb-bay discharge door

• Hydraulically operated bomb-bay discharge door

Dimensions in mm

Benefits

- ✓ **Excellent reproducibility of batches**
- ✓ **Total emptying, minimum residue**
- ✓ **Perfect bomb-bay door sealing**
- ✓ **Optimum mixing homogeneity**
- ✓ **No product degradation**
- ✓ **Safe and durable**
- ✓ **Rated power adapted to application**
- ✓ **High uptime**
- ✓ **Extensive mixing know-how and test facilities**
- ✓ **Quick and easy access to mixer interior**

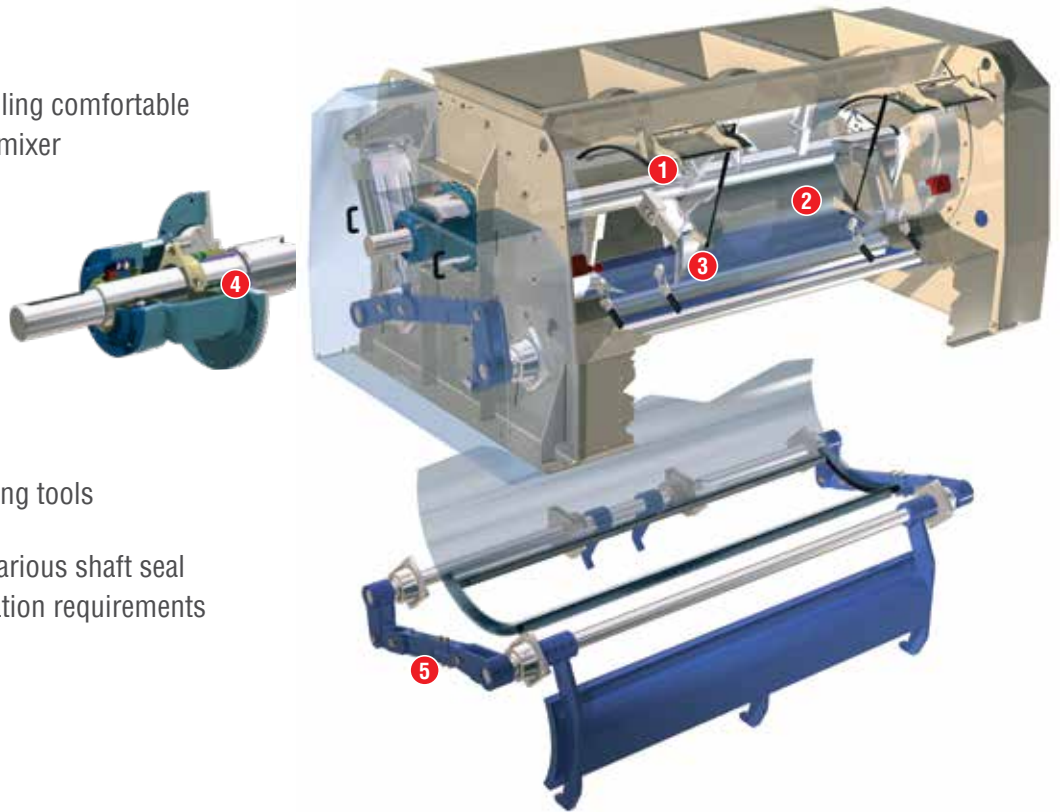
1 Large inspection doors enabling comfortable access to the interior of the mixer

2 Heavy-duty mixing chamber manufactured in carbon steel, anti-wear steel or 304L / 316L stainless steel

3 Replaceable, adjustable mixing tools

4 End bearing assemblies in various shaft seal configurations for all application requirements

5 Bomb-bay discharge door



Mixing Tools



Anti-Wear Coating
as an option for all
mixing tools

Choppers



Options



Choppers, liquid injectors,
temperature jacket



Removable chamber liner,
tools in special anti-wear material



Choppers



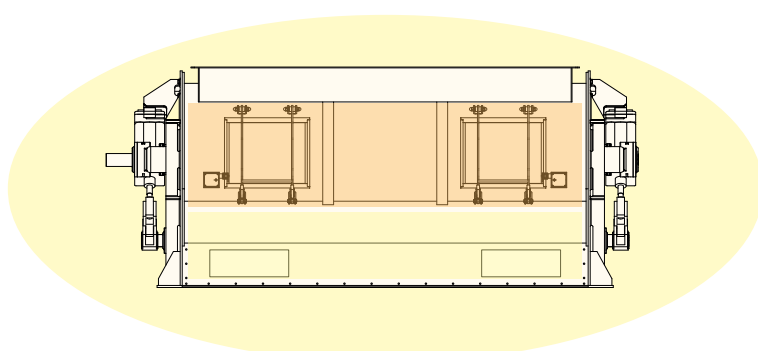
304L / 316L stainless steel
internal polishing

Application



ATEX Zones

Zone: a place in which an explosive atmosphere is...	ATEX Zone	
	Gases	Dusts
continually present	0	20
likely to occur occasionally in normal operation	1	21
not likely to occur in normal operation and only for very short durations	2	22



■ ATEX zone 21/1

■ ATEX zone 20/0

