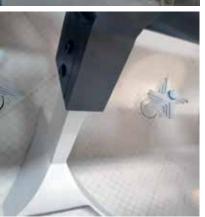
MIXING TECHNOLOGIES

High-Efficiency Ploughshare Mixers for Secondary Battery Industry
WBH Lithium













SERVICE & SUPPORT

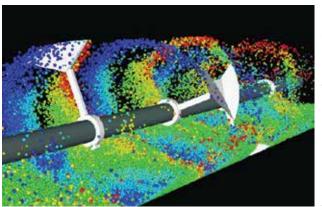
WA: (08) 9303 4966 | NSW: (02) 9674 8611 chainanddrives.com.au



HIGH-QUALITY MIXTURES TRIED AND TESTED THOUSANDS OF TIMES

The WBH Lithium High-Efficiency Ploughshare Mixer is the ideal machine for obtaining highest quality mixtures in perfectly reproducible batches. Over the last four decades MAP® has supplied thousands of mixers to a large variety of industries. Mixing tests for customers are performed in the Group's own laboratories worldwide.

The WBH Lithium Horizontal Single-Shaft Batch Mixer is based on the principle of mechanical fluidisation of the product. The particular shape, position and rotational speed of the mixing tools,



create a centrifugal vortex motion, which allows the materials to be projected three-dimensionally and to merge together.

This ensures that ingredients with different particle sizes and bulk densities are mixed perfectly and with high precision within the shortest possible time.

As a result of decades of experience in the field

of mixing technology, MAP® has developed specialised solutions for the Secondary Battery Industry.

| SUCCESSFUL FORMULATIONS | | | | | | | | |
|-------------------------|-------------------------|-------------------------|---------|---------------|--|--|--|--|
| LCO + LiCO ₃ | LMO + LiCO ₃ | NMC + LiCO ₃ | NMC 523 | NMC 811 | | | | |
| NCA + LiCO ₃ | NCA + LiOH | NMC +LiOH | NMC 622 | NMC 9-0.5-0.5 | | | | |

WHY CHOOSE WBH LITHIUM?

- ✓ No product contamination thanks to specialised design
- Easy cleaning and maintenance
- Easy sampling
- ✓ High production volumes
- ✓ No temperature increases during mixing process
- ✓ Low energy consumption per litre of volume
- **✓ Short mixing time** (about 20 ~ 30 minutes no matter how complex the formulation)
- ✓ Durable machine (chamber life not less than 15 years)
- ✓ Wide range of specialised abrasion and corrosion-resistant coatings and linings

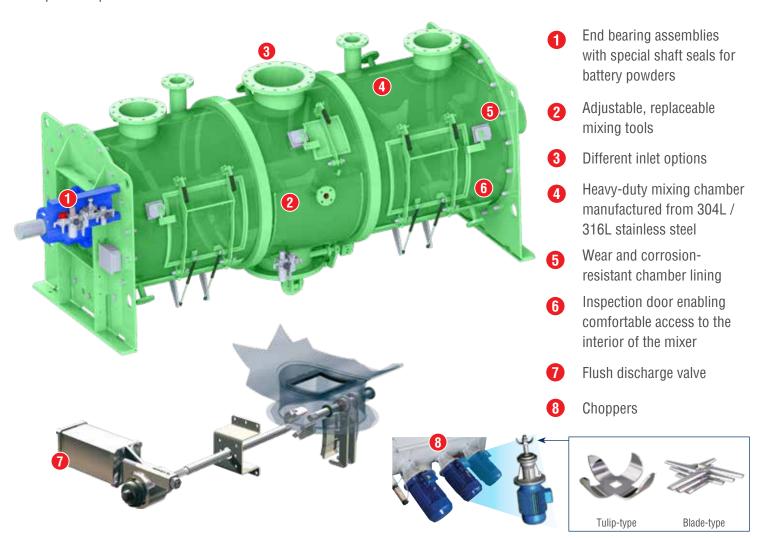
Benefits

- ✓ Simple: streamlined, user-friendly process
- ✓ Fast: short mixing time
- ✓ Reduced energy consumption: low power installed (e.g., 75 kW on 3,000-litre mixer)
- ✓ Reliable: no product temperature increases during mixing process
- ✓ Durable: minimised wear of tools and mixing chamber
- ✓ Safe: easy cleaning and maintenace

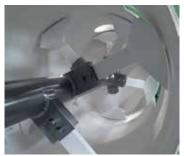
Technical Features

- Capacity: 75 ~ 25,000 litres (2.6 ~ 880 cu ft) per batch
- Mixing ratio: 1/100,000
- Optional liquid addition

- Manufactured from 304L / 316L stainless steel
- Pneumatic control panel



Special Features for Secondary Battery Industry

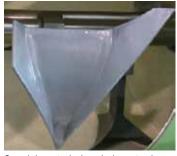


Wear and corrosion-resistant ceramic
Special shaft seals tile chamber lining



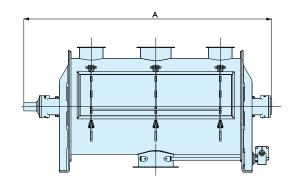


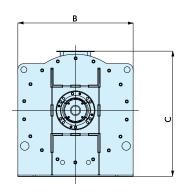
Special outlet with cleaning system



Special coated ploughshare tool design

Overall Dimensions





| Model | Working Capacity (I) | Drive Unit + Chopper average power installed (kW) | A | В | C | Empty Weight (kg) |
|----------|-------------------------|--|-------|-------|-------|----------------------|
| WBH 300 | 85 - 210 | 15 | 1,840 | 770 | 890 | 550 |
| WBH 500 | 155 - 385 | 32 | 2,150 | 930 | 1,080 | 840 |
| WBH 800 | 215 - 560 | 35 | 2,350 | 980 | 1,150 | 1,080 |
| WBH 1100 | 315 - 770 | 55 | 2,690 | 1,100 | 1,280 | 1,400 |
| WBH 1600 | 485 - 1,150 | 60 | 2,690 | 1,100 | 1,280 | 1,400 |
| WBH 2000 | 551 - 1,400 | 75 | 2,920 | 1,340 | 1,460 | 2,100 |
| WBH 3000 | 825 - 2,100 | 100 | 3,920 | 1,340 | 1,460 | 2,800 |
| WBH 4800 | 1,340 - 3,360 | 150 | 4,520 | 1,500 | 1,750 | 4,300 |
| WBH 6000 | 1,650 - 4,150 | 200 | 4,820 | 1,600 | 1,860 | 4,800 |
| WBH 8800 | 2,450 - 6,150 | 250 | 5,390 | 1,810 | 2,130 | 5,800 |

Dimensions in mm



SERVICE & SUPPORT

WA: (08) 9303 4966 | NSW: (02) 9674 8611 chainanddrives.com.au

MEG MECHANICAL EQUIPMENT GROUP.