



Pharmatech
Innovation in Pharmaceutical Engineering

PharmaBlend Range



Advanced Blending Technology for Laboratories,
Pilot Plants and Production Facilities

The PharmaBlend Range

Pharmatech are world leaders in powder blending technology and powder handling systems.

PharmaBlend Blenders are Pharmatech's range of high quality blenders. These blenders are used extensively in pharmaceutical companies around the world.

There is a PharmaBlend blender available for virtually any batch size.



PharmaBlend

MB MultiBlend

A range of blender drive units with Pharmatech's Quick-Change container clamping systems.

AB AgiBlend

All the benefits of the MultiBlend blenders but with the addition of a high speed agitator bar.

BV BlendView

All the benefits of the MultiBlend blenders but with NIR monitoring for determining when blending is complete.

Production & Custom

Our in-house team will design and build a blender to your exact requirements.

What is Quick-Change?

Many PharmaBlend blenders are available with the Quick-Change system. Quick-Change allows containers of different shapes and sizes to be easily used on the same blender - resulting in flexibility and greater productivity.

MultiBlend Blenders - MB

Versatility comes as standard

A MultiBlend machine consists of a drive unit and interchangeable blending containers. Pharmatech's MultiBlend range is the world's most complete range of powder blenders.

There is a MultiBlend blender to suit any batch size from small laboratory batches right up to production batches.

- Range of standard blender drive units (see table)
- Quick-Change container connection system
- Any shape of container
- Any size of container
- GMP correct design & construction
- Can be ATEX rated



Easy to use controls



Quick-Change Blending Containers make MultiBlend machines highly versatile



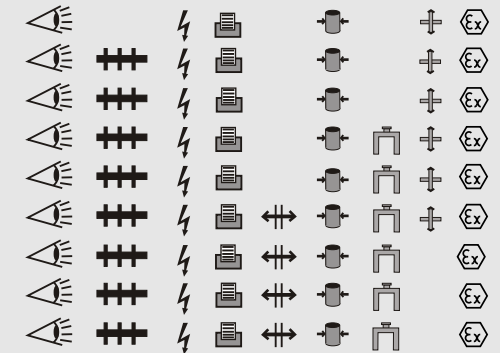
MB400 blending a 200L drum

Whatever your batch size, we have a blender to suit

The MultiBlend Blender Range

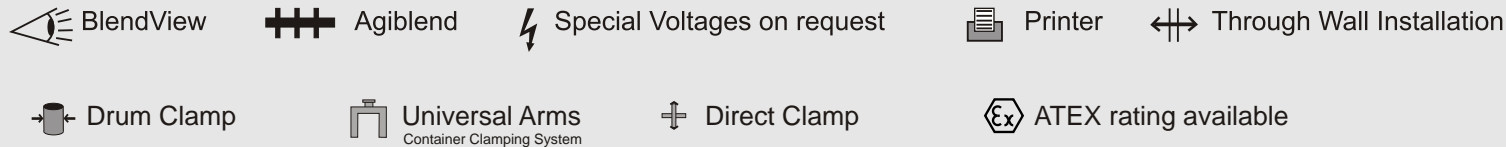
Blender Model	Description	Blending Container Sizes	Maximum Batch Weight	Speed Range	Power	Motor Size
MB005	Bench top, laboratory blender	Up to 5L	3.5Kg	5-30rpm	230V 50Hz 1 ph	60W
MB015	Bench top, laboratory blender	Up to 15L	10Kg	5-30rpm	230V 50Hz 1 ph	90W
MB030	Free standing, mobile, pilot blender	Up to 30L	20Kg	5-30rpm	230V 50Hz 1 ph	180W
MB100	Free standing, mobile, pilot blender	Up to 100L	65Kg	5-30rpm	230V 50Hz 1 ph	750W
MB400	Free standing, production blender	Up to 300L	200Kg	5-30rpm	400V 50Hz 3 ph	2.2KW
MB400A	Free standing, production blender	Up to 300L	200Kg	5-30rpm	400V 50Hz 3 ph	2.2KW
MB800A	Free standing, production blender	Up to 500L	275Kg	3-25rpm	400V 50Hz 3 ph	3KW
MB1200A	Free standing, production blender	Up to 750L	350Kg	3-20rpm	400V 50Hz 3 ph	4KW
MB2000A	Free standing, production blender	Up to 1000L	500Kg	3-20rpm	400V 50Hz 3 ph	5.5KW

Standard Options



Need something larger? See our range of Production Scale Blenders on page 4

Key



MB005



MB015



MB030



MB100
with Safety



MB400



MB800A



MB1200A



MB2000A



Production Scale Blenders

Durability, Quality & Affordability

Pharmatech are experts at designing and manufacturing large scale production blenders. We custom design your blender using standard modular components, this gives you the machine you need with the reliability of a standard machine.

- Any size
- cGMP correct design
- Blending containers - standard and special shapes
- Clean In Place systems
- ATEX rated to any standard
- Charging & discharging systems available
- Scaled versions of your existing blending containers
- Validation documentation packages
- Special blenders - with heated shells, built in weighing systems etc.
- Control systems including GAMP, 21CFR Part 11, SCADA integration as required



700 Litre V-Shell Blender



2500 Litre Asymmetric Double Cone Blender



750 Litre IBC Blender



7000L V-Blender - complete with operator access gantry

AgiBlend Blenders - **AB**

High Shear Mixing within the Blending Container

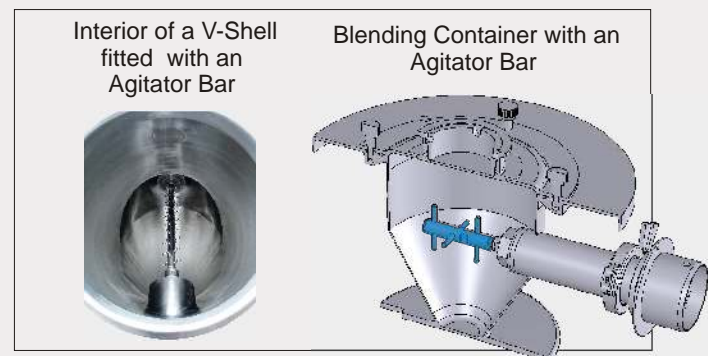
Standard tumble blenders provide a gentle, low shear action. The mixing efficiency within an AgiBlend container is increased by the use of high shear agitator bars.



Special AgiBlend
AB400 with 75 litre
Double Cone

The inbuilt Agitator Bar
travels with the container

- High shear, counter rotating mixing bars give an intensive mixing action
- Ideal for potent and highly coloured products
- Any shape of container
- Any size of container
- Option of Liquid addition through the Agitator Bar
- Advanced seal design developed by Pharmatech



BlendView Blenders - **BV**

PAT Enabled Blenders for Blending Endpoint Determination

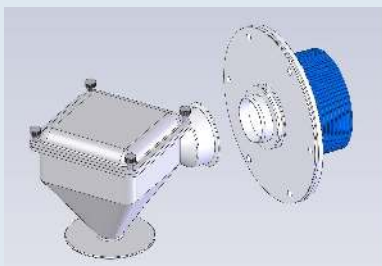
The BlendView system allows the continuous collection of high quality blending data leading to superior analytical accuracy.

The NIR components do not rotate and are protected within the blender frame. A patented Pharmatech development now allows the benefits of an Fourier Transform (FT) system to be applied to any size or type of existing blender.

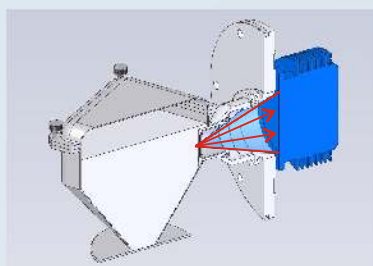
- Real time readouts of your blending process
- The wide spectrum of FT analysis allows more information to be collected. It also allows the tracking of more ingredients
- Suitable for use with fixed shell blenders or machines where the blending container is removable
- Available for all containers from 0.2L upwards
- Software 21 CFR Part 11 compliant



BV030 Blender - the fully
integrated laboratory (consisting of
onboard spectrometer and PC)



BlendView containers use
the Quick-Change system



Cross section showing
BlendView principal



15L BlendView
enabled IBC
(Note the NIR viewing
window)

Understand & Control your process with BlendView

Other *Pharmatech* Products

Drums

- High quality, stainless steel drums and accessories
- Full range of standard sizes (up to 500L)
- Custom designs made to order
- GMP correct design & construction
- Most sizes ex stock



Wide range of drums & accessories

Drum Handling Systems

- Hoists and Tippers are ideal for minimising manual handling
- Lift, lower, tip and invert
- Disciplined and repeatable operation
- Fixed or Mobile units
- GMP correct design & construction



Drum Tipper



Mini Hoists are ideal for lifting equipment and containers

FlexiSieve®

- Fully enclosed safety sieving
- Throughputs of up to 1500kg/hr
- Removable sieving head
- Only two product contact parts
- Through wall / isolator versions available
- Ideal for inline installations



Mobile FlexiSieve®
modified for
contained bag
filling

Connection Systems

- **Protect** operators & protect the environment
- **Manufactured** using FDA & USP Class VI acceptable materials
- **Save** time and money



Dust Cap Seals

- Temporary dust tight connections
- Made from silicone rubber
- Range of sizes

FlexiDuct

- Temporary flexible connections
- Secured in place by quick release clamps
- Made from silicone rubber
- Range of sizes
- Parallel and conical reducers



Contact the powder handling experts at *Pharmatech*

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Pharmatech

2 Forge Mills Park, Station Road,
Coleshill, Warwickshire. B46 1JH. UK.

Tel: +44 (0)1675 467636 Fax: +44 (0)1675 467582
Email: info@pharmatech.co.uk www.pharmatech.co.uk