

# Pharmatech Multiblend

Powder & Granule Blender - **MB400**

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**Pharmatech**  
Innovation in Pharmaceutical Engineering

## MB400 Powder & Granule Blender



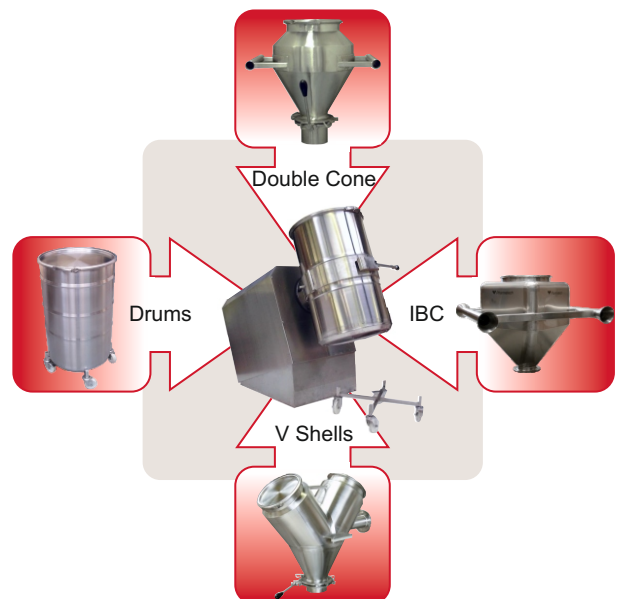
The MultiBlend® MB400 is one of a range of blenders that has been designed and developed, by *Pharmatech*, primarily as a drum blender to handle standard 200 litre drums. The MB400 is suitable for use in both development laboratories and in production areas.

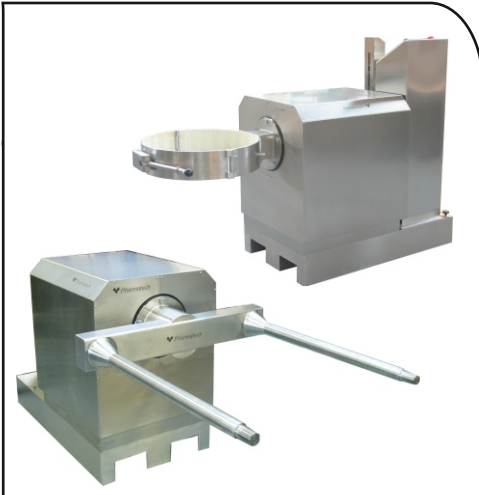
The MultiBlend MB400 has been designed and developed by Pharmatech for use in development studies and for small manufacturing. The versatile design allows it to be equally useful for blending drums, IBCs, V shells or double cones. The machine is designed to allow not only fast changing of vessels of any shape but also a wide range of sizes making it the ideal machine for scale up studies.

### Container Shapes

Like all MultiBlend® blenders the MB400 features the Quick-Change facility where the blending container can be quickly removed and replaced with another. Various shapes of interchangeable removable mixing containers are available, including:

- drums (barrels)
- IBC (bins or totes)
- V-shells (Vee cones, Y-cones, twin shells)
- DoubleCone





## Quick Change Of Blending Vessels

IBC's, V Shells and double cone vessels are fitted with side tubes that allow the vessels to be attached using universal arms. Drums are attached using circular clamp bands. Smaller drums can be handled using clamp band adapters with the main clamp.

## Operator Controls

The Pharmatech MB400 is supplied with easy to use touch sensitive colour HMI Controls as standard. HMI features as standard include:

- 5.7" Colour Screen
- Allows the operator to input blend parameters such as blend time and blend speed
- Provides operator guidance instructions, machine status and error message pop ups
- Enhanced package - with blend recipes and operator log in available
- Ask for data sheet on standard control packages.

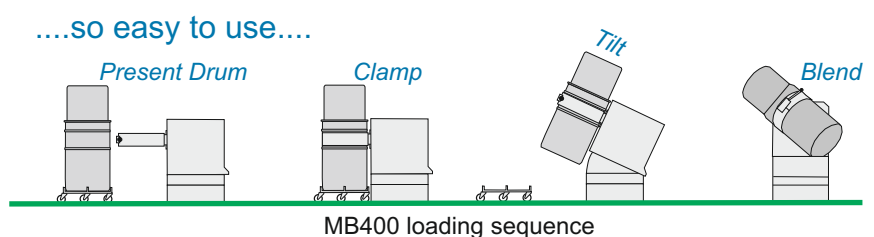
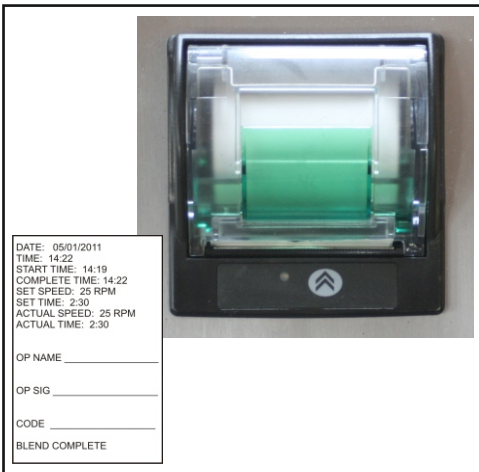
## Moving your blender

The MB400 can be made portable for increased versatility. It can be moved using a pallet truck.

For safe use of machines Light barriers can also be attached and linked with the machine to protect the blending area wherever it is set up.

## Printer

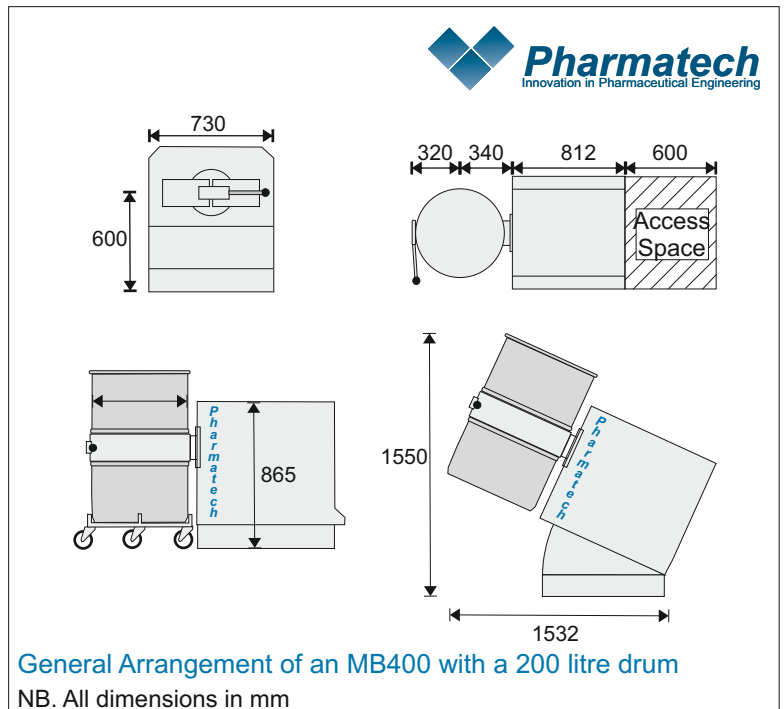
A tally roll printer can be incorporated providing a printout of the blend cycle.



## Technical Details

Weight (without containers)	Approx. 200kg
Power Supply	400V 50Hz 3 phase 24V control circuit
Motor size	2.2kw
Speed Range	3 - 30 RPM
IP Rating	Drive Unit - IP54 Control Panel IP65
Useful Turning Moment	400Nm
Blending Containers	up to 300 litres
Blending Containers	up to 200 kg

\* Special voltages on request - ask for details




General Arrangement of an MB400 with a 200 litre drum

NB. All dimensions in mm

## Standard Features

- All 304 stainless steel construction
- GMP correct design
- Variable speed from 3 to 30 rpm
- Touch Sensitive Colour HMI
- Safety barrier circuit
- Handles containers up to 300 litres in volume (200L of product) with a bulk density of 0.7g/cc
- Integrated PLC
- Blend in tilted or vertical position
- Operator selectable speed & time with actual speed and time displayed.
- Vertical autopark

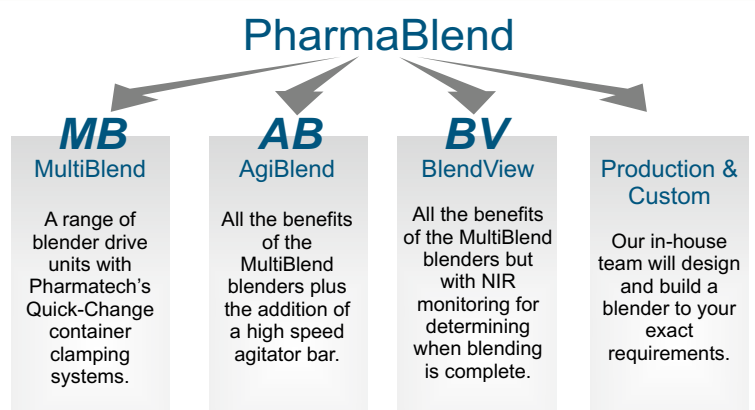
## Options

- 316 stainless steel construction
- Other PLC controls & printers
- Add pallet base to make machine mobile
- Non standard voltages
- Validation Documentation (DQ, IQ, OQ & FAT)
- Plinths to raise the centre of rotation
- Container attachment systems
- Single Phase electrical supply
- Enhanced control package
- ATEX rating (to any standard) 

## The PharmaBlend Range

The MB400 is just one of a range of blenders supplied by Pharmatech

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





## AgiBlend Blenders - AB

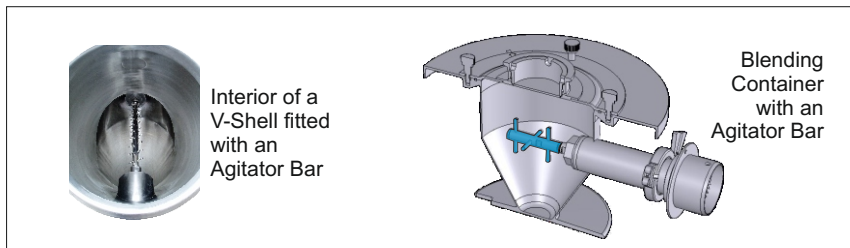
High Shear Mixing within the Blending Container



Special AgiBlend  
AB400 with 75 litre  
Double Cone

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.

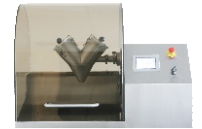
- High shear, counter rotating mixing bars give an intensive mixing action
- Ideal for potent and highly coloured products
- Any shape of container
- Any size of container
- Option of Liquid addition through the Agitator Bar
- Advanced seal design developed by Pharmatech



## Our extensive range:



MB005



MB015



MB030



MB100



MB400



MB800A



MB1200A



MB2000A

## BlendView Blenders - BV

PAT Enabled Blenders for Blending Endpoint Determination

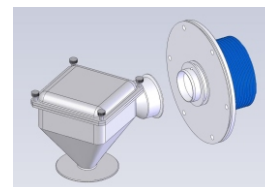
The BlendView system allows the continuous collection of high quality blending data leading to superior analytical accuracy.

The NIR components do not rotate and are protected within the blender frame.

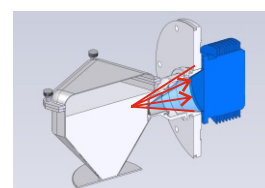
- Real time readouts of your blending process
- The wide spectrum of FT analysis allows more information to be collected. It also allows the tracking of more ingredients
- Suitable for use with fixed shell blenders or machines where the blending container is removable
- Available for all containers from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