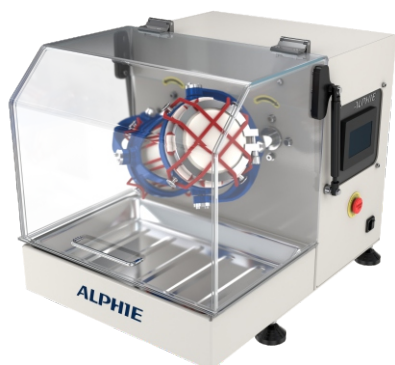


MIX THE IMPOSSIBLE TO PERFECTION

ALPHIE®

3D Mixer / Blender For Laboratory Purpose



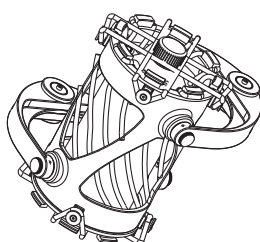
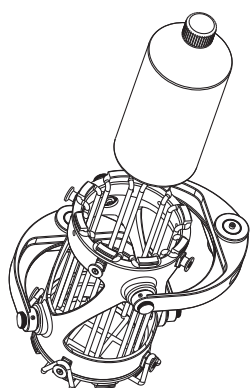
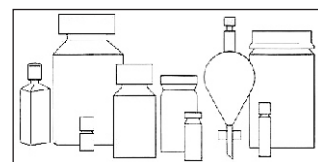
Alphie 3	Specification	Alphie 10
2.5	Capacity (Ltr)	10
2.0	Effective Capacity @ 80% (Ltr)	8
5	Max mixing mass (Kg)	12
0.3 hp	Motor Power	0.5 hp
Single Phase, 220 V	Power Supply	Single Phase, 220 V
10 - 80	Container Revolution (rpm)	10 - 70
Dia 115 x 275 Long	Max. Container Size (mm)	Dia 220 x 360 Long
75 Kg	Machine Weight (kg)	145 Kg
550 x 700 x 550	Overall Dimension (mm) (Length x Depth x Height)	730 x 855 x 1270

- ❖ State of the art – 3D mixing technology, manufactured in India
- ❖ Machine without belt / chain / bush etc. All bearings are life long lubricated
- ❖ Machine with speed, direction of rotation and time changing facility
- ❖ Low motor power consumption, thanks to use of High grade Aluminum rotating drum holder
- ❖ Practically, maintenance and spare parts free experience
- ❖ With removable tray to collect accidentally spilled out powder
- ❖ Transparent safety guard inter locked with machine working



Ability to fix any shape / size / material of mixing container :

These models are equipped with mechanism which allows fixing of virtually anything. Let it be of cylindrical / Hexagonal / flask shape or made from steel / glass / plastic and capacity ranging from maximum to as small as a test tube.



Test tube fitted in Alphie 3

What is **ALPHIE**®

The motion of **ALPHIE**® based on the kinematic Inversion Principle. The unusual, 3-dimensional mixing motion quickly and efficiently produces a homogeneous substance regardless of specific weight of the substances being mixed. This makes it an ideal powder blender or liquid mixer.

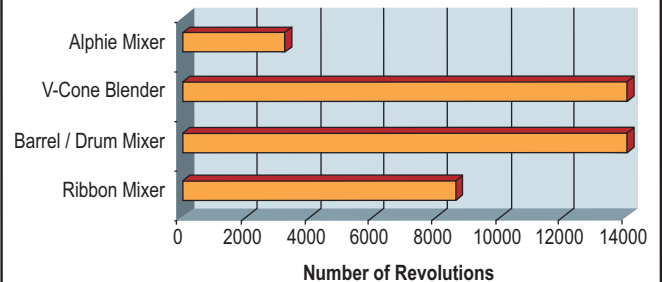
Better than conventional mixers

- ◆ In conventional mixers, the centrifugal force of the motion of rotation tends to favor segregation rather than mixing.
- ◆ The limits of conventional mixers are reached when mixing compounds with different densities or sizes are used.
- ◆ Barrel mixer has disadvantage of smaller / heavier particles sink deeper and segregation zones are generated.
- ◆ In Mixers with blades are rotated on horizontal, vertical or inclined shafts. The speed and the forced motion generate shear forces harming the compounds.

Mixing Benefits

- ◆ High Mixing efficiency
- ◆ Dust free hygienic mixing in closed container
- ◆ Short Mixing time
- ◆ No segregation of the different compounds
- ◆ Gentle mixing

Number of Revolutions to Reach Homogeneity



As you can see, Alphie 3D Mixer gives 3 to 4 times faster homogeneous mixing result than conventional mixer

Partner of Success



And Many More....

HEXAGON
The Knowledge Centre

Mixer Applications

Industry	Application
Abrasive Powder	For grinding wheel and diamond coring bit manufacturing
Bakery	For mixing of cocoa, wheat flour and additives
Battery	For dry mixing of mobile battery powder ingredients
Cement	Making blend of OPC, Fly ash, Slag, Limestone etc
Coating	For coating of oil layer on rubber bush
Dentistry	Preparation of dental amalgam - to mix metal, liquid mercury and powdered alloy
Diamond Tool	For resin bond as well as industrial diamond powder mixing
Fire crackers	For dry and wet mixing of crackers of Aluminium powder, Sulphur etc
Glass	For incoming sand testing and quality measurement
Homeopathy	For potentization rise using "mother tincture" with ethanol
IOL	For tinting powder dyestuff homogenization
Metal Finishing	For deburring and polishing using media and chemical
Metal Powder	Mixing of iron with copper, cobalt, Nickel and other elements
MIM	For Feedstock pre mix making
Nano particle	For dispersion of material like transition metal oxide, sulphide in organic solvents
Nuclear Fuel	For mixing of Uranium Oxide with binders
Paint	Mixing of Ag Nano powder, epoxy and pigments
Particle size reduction	For milling operation using steel or other balls
Pharmaceuticals	Dry powder Inhalation and formulation of drug
Plastic	Mixing of polycarbonate with Carbon nano tubes
Polymer	For compounding and master batch mixing
Soft drink	Mixing of salt, citric acid, colour powder and Sodium Benzoate
Concentrates	Benzoate
Spices	Seasoning mixing from spices such as cinnamon, cloves and ginger

Global Customer Base



For more details contact us at :-

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