



Artisan Scientific

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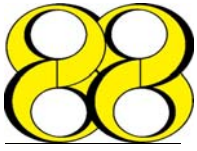
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Inversion Machines Ltd.

88 Mixer Information Page

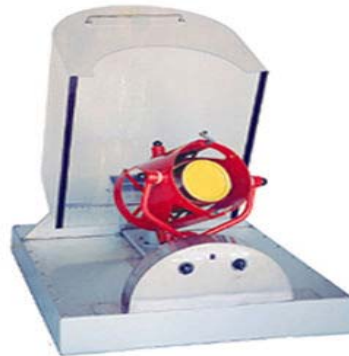
A High Performance Mixer For Industry and Research

The Principle:

Based upon the Schatz inversion kinematic, the 88 Mixer uses a highly-ordered form of 3-dimensional motion that brings centrifugal centripetal forces into a state of dynamic balance, resulting in an ideal mixing environment.

The Result:

Rapid and accurate mixing of dry or liquid ingredients in all ratios, regardless of their specific weight. Very little free container space is required. Depending on the materials mixed, container volume is up to 98% usable



The Advantages:

Dust-free and sterile operation. Ingredients stay in closed and removable containers. Downtime is greatly reduced; no hopper cleaning is necessary. Results are fully reproducible, even in larger or smaller machine sizes. The unique motion is gentle and non-destructive, allowing the 88 Mixer to be used with delicate and easily damaged materials. Recommended also for ball-milling applications, especially for fine or extra-fine grinding, or with abrasive materials for polishing and de burring. Smaller containers of your choice can be mounted in the machines using an optional adjustable clamping mechanism.

Container Clamping Systems:



Two adjustable clamping mechanisms are available to permit mixers to handle containers smaller than the maximum size specified for mixer. The first system, used in the 4.5 liter Model 1 (shown left) and the two liter model, consists of a vortex of rubber cords that can be easily adjusted to envelop and firmly secure any shape or size of container.

Our second system is used in the larger mixers. This uses 2 rubber-line curved adjustable clamps mounted on acme threaded rods which move inwards from opposite sides of the carrier (adjusted with removable crank handles). This feature is an optional extra in the Model 5, 10 and

25 mixers.

Stainless-Steel Containers:

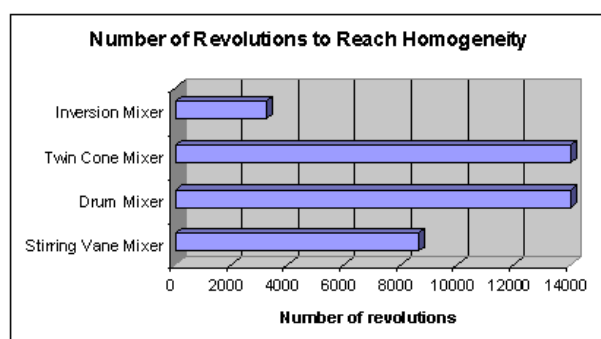
A range of open-ended stainless-steel containers are available for use with Models 5, 10, 25 and the Model 45 (shown above). Please inquire.

Container Loading-Unloading:

Various lifting and handling devices are available to facilitate the loading and unloading of heavy containers.

Comparative Mixing Time Results With Other Types Of Mixers:

As you can see from the graph below the Inversion Mixer is not only very gentle and non-destructive but also very fast.



The rotation speed is approximately the same for each mixer.

Homogeneity = 0.9 (from mean) ² 0.9 (Mixture 60% Sulfisomidine, 40% Starch).

Source: Particulate Solids Flow Properties and Mixing By: R. Tawaski, Faculty of Pharmacy, University of Montreal

Established Applications For Inversion Mixers:

Ceramics:

Used as a batch powder blender for homogeneous mixing of ceramic, or ceramic and metal powders.

Ball Milling:

Produces a wide range of new light materials by simply mixing two elemental powders and mechanically milling them in a high energy environment.

Diamond Tools:

Mixing of diamond powders and chips with binding agents.

Dyestuffs:

Pigmenting, grinding, resin solutions, matching, shaking-out, special textile dyes.

Electronics:

The mixing of powders for permanent magnets.

Electrical:

Mixing of copper and graphite powders for carbon brushes.

Explosives:

Mixing of Teflon powders for wire insulation.

Foodstuffs:

Millisecond fuses, tracer fuses, graphiting of explosives

Fuels:

Used as an industrial food mixer for processing pudding powders, baking powders.

Gas Detection:

Mixing of solid and liquid fuels for rockets.

Homeopathy:

Mixing of chemicals to form discoloration indicators.

Deburring machine parts:

Used as a homeopathic tool for fine grinding. Also used for homeopathic mixing of tinctures and for potentizing.

Medicine:

Can be used as a Deburring machine to debur small machine parts without damage.

Powered Metallurgy:

Blood research, serum production.

Nuclear Chemistry:

Tungsten carbide tools, metal and plastic powders.

Paint mixer:

Manufacture of tracers, decontamination/absorption.

Pharmaceutical lab mixers:

Homogeneous mixing and pigment dispersion.

Plastics:

Preparation of homogeneous mixtures regardless of specific density.

Pyrotechnics:

Coloring, solutions, reactions.
Fuses for fireworks and signal rockets.

Research Institutes working in the following areas

Agriculture, albumin research, animal foodstuffs, atomic energy, bacteriology, beer, biochemistry, making biodynamic preparations, biology, carbon, cement, chemistry of combustibles, chemistry of foodstuffs, civil engineering, dairy, dermatology, effluent hygiene, electro-metallurgy, fire resistant materials, fishery, foundry, geology, glass, grain, inorganic chemistry, insecticides, isotopes, macro-molecular chemistry, material testing, metals, mineral oil chemistry, microbiology, morphology, petrography, pharmacology, pharmacy, organic fertilizers, plant biology, plant chemistry, radio chemistry, soil serology, textile chemistry, tropical medicines, veterinary medicine, virus research, wood chemistry, wool, X-Ray materials + .

All can benefit from Inversion mixers which feature consistent and accurate results. The removable containers guarantees generating a sterile mixing environment.

Please note: Mixing ingredients must be free flowing. Inversion Mixers are not suitable for mixing viscous materials.

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CALL OR E-MAIL INVERSION MACHINES TODAY!

Phone: 403-704-1341

Email: sales@inversionmixers.com

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