

THINKY ARE-500 Planetary Centrifugal Mixer



Description

The **THINKY ARE-500 Mixer** is an industrial non-contact planetary centrifugal mixer for all engineering compounds, with a maximum capacity of 500ml or 1100g. It mixes, disperses and degasses your materials in seconds to minutes, in a sealed or lid-less container such as a jar, beaker, syringe tube or cartridge. The non-contact mixing principle makes it possible to formulate compounds from very small amounts such as 0.5ml to large production scales.

The THINKY ARE-500 Mixer makes it possible for the processes of mixing and bubble removal to be carried out simultaneously. It is a conditioning mixer. It can be used for the mixing and/or bubble removal of not only epoxy but also silicones, conductive pastes, medicines, chemical materials, etc.

A Multi-Step Mixing feature allows you to program 5 different sets of mixing and degassing conditions (time and speed per mode) in a single batch cycle. Precise control of the process makes it possible not only to improve formulation quality, but also to eliminate human errors or operator skills throughout the process. It is also effective in controlling shear, so as not to damage your materials. Cooled materials or heated materials can be processed with special adapters. The ARE-500 can accept syringes up to 55ml or up to 75ml (2.5 oz) cartridges with optional adapters. Larger THINKY mixers with vacuum capability are also available.



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Features & Benefits

- Process in seconds to minutes, reducing production time
- Process in your containers such as jar, barrel, cartridge, syringe or tube from 0.5ml – saving valuable material wastage
- Remove voids and re-disperse filled materials packed in syringes
- Non-invasive processing ends the risk of cross contamination between batches
- Re-mixing of separated materials to prolong shelf life
- Vacuum-less processing, degassing and de-aeration
- No damage to material unlike the use of rollers, mixing blades or propellers
- No unit cleaning between batches eliminates non-productive work
- Maximum of 500ml or 1100g of material can be simultaneously mixed and deaerated
- Cold-insulated, heat-resistant adapter supporting various characteristics of materials
- Memory and step-operation functions for controlling operating conditions

Applications



The **THINKY ARE-500** consolidates time consuming formulation processes into a single step, completing in seconds to minutes.

- eliminates non-productive cleaning between batches with the use of your own product's container.
- formulate and mix adhesives, sealants, molding compounds, lubricants, slurries, coatings, inks, paints, abrasives, bio chemicals, cements, medical compounds, cosmetics/personal care materials, detergents, conductive pastes, dental materials, foods, construction materials or any other materials

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which are hard to mix, hard to degas, or hard to wet

Epoxy resin	 Two white plastic mixing cups are shown side-by-side on a dark surface. The cup on the left contains a mixture of white powder, a green liquid, and a small amount of red liquid. The cup on the right contains a smooth, uniform, light blue liquid.
Epoxy resin, hardener and aluminium powder are mixed in 6.5 minutes. Ingredients are dispersed evenly.	
Solder paste	 Two white plastic mixing cups are shown side-by-side on a dark surface. The cup on the left contains a mixture of white powder, a red liquid, and a small amount of orange liquid. The cup on the right contains a smooth, uniform, light blue liquid.
Creamy solder paste with no air bubbles is made from solder powder and flux. Processed with ARE-500 in 45 seconds.	

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Cosmetics	 A top-down view of two white plastic mixing bowls. The bowl on the left contains unmixed ingredients: a dollop of white cream, a small pile of yellow powder, and a few small red and blue granules. The bowl on the right contains the same ingredients thoroughly mixed into a smooth, uniform orange-colored paste.
Ingredients for face cake, wax and coloured iron oxide, are mixed completely with the ARE-500 in 5 minutes.	
Ointment	 A top-down view of two white plastic mixing bowls. The bowl on the left contains unmixed ingredients: a pile of bright yellow powder and a small amount of white cream. The bowl on the right contains the same ingredients thoroughly mixed into a smooth, uniform yellow-colored paste.
It mixes yellow pigment into zinc oxide. Without solvent, it dispersed perfectly with the ARE-500 in 20 seconds.	


Specifications

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Specification	
Dimensions (mm)	H692 x W500 x D500
Weight	100kg
Safety features	Lid sensor, vibration sensor, rotation speed sensor, CE marked
Power requirements	230V +/- 10% 50Hz
Minimum material capacity	0.5g
Maximum mixing volumve	550ml container: 500ml / 1,000g (1,100g gross)
Timer	Set up to 30 minutes, 1 second increments
Programming	Mixing and/or degassing mode, multi-step mixing, speed changer
Memory	5 memory slots are available for different 5 batch cycles. Programmed mixing procedure can be recalled in a second.

Other Information

	<p>Getting to know THINKY Mixers</p> <p>Download a presentation which describes how THINKY Mixers work, and what benefits they can deliver to you.</p>
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Ordering Information

Part number	Description
THIARE-500	Thinky ARE-500 Mixer 230V CE Includes 2 x THI650ML 650ml jars, 2 x THI550ML-01 550ml jars, 2 x THI300ML 300ml jars, 1 x adapter for 300ml jar, 1 x O-ring for 550ml jar, 1 x O-ring for 650ml jar

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Let's start by talking about your application

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■ Name*

■ Company*

■ Phone*

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Email*

■ Post code*

If you're in the UK, knowing your postcode would help us get in touch even more quickly. If you're outside the UK, please indicate your country.

■ Tell us about your application

Any information that you submit using this form will be processed according to our [privacy policy](#).

■ Comments

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