

THINKY ARE-250



THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

Description

The **THINKY ARE-250 mixing and degassing machine** is an industrial non-contact “planetary” mixer for all engineering compounds. 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 was really impressive; we are now able to mix smaller batches of adhesive using a very simple pre-programmed cycle.” – Flynn Barrett, Gooch & Housego

The **THINKY ARE-250 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.

“...for the past 12 months have used the Thinky a great deal. It has allowed us to quickly produce homogenous silicone in large quantities that is free of air, transforming a time consuming, physical task into an automated effortless one.” – Jim Dimond, University Hospital Coventry

THI ARE-250



THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

The **THINKY ARE-250 Mixer** is a lightweight benchtop model, which can hold up to 310g of material. The 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-250 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.

Features & Benefits

THI ARE-250

The logo for THINKY, featuring the word "THINKY" in a stylized, blocky, uppercase font with a unique, slightly irregular letter structure.

THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

- For high viscous, materials with various densities, or dry particle mixing
- Simultaneous process of dispersion and degassing in one batch
- Process in seconds to minutes
- Process in your containers such as jar, barrel, cartridge, syringe or tube
- Remove voids and re-disperse filled materials packed in syringes
- Non-invasive processing ends the risk of cross contamination between batches
- Process from 0.5ml – save valuable material wastage
- 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

Applications

The **THINKY ARE-250** 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, moulding 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 which are hard to mix, hard to degas, or hard to wet.

THI ARE-250



THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

Epoxy resin

Epoxy resin, hardener and aluminium powder are mixed in 6.5 minutes. Ingredients are dispersed evenly.



Solder paste

Creamy solder paste with no air bubbles is made from solder powder and flux. Processed with ARE-250 in 45 seconds.



Cosmetics

THI ARE-250

THINKY

THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

Ingredients for face cake, wax and coloured iron oxide, are mixed completely with the ARE-250 in 5 minutes.



Ointment

It mixes yellow pigment into zinc oxide. Without solvent, it dispersed perfectly with the ARE-250 in 20 seconds.



Specifications

THI ARE-250



THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

Dimensions (mm)	H390 X W300 X D300
Weight	22kg
Safety features	Lid sensor, vibration sensor, rotation speed sensor, CE marked
Power requirements	230V +/- 10% 50Hz
Minimum material capacity	0.5g
Maximum capacity	310g (includes material/container/adapter)
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.

THI ARE-250



THINKY

THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

Other Information

See how the **THINKY ARE-250** works as part of a real application in these metering and mixing

[Case Studies:](#)

<p>CASE STUDY</p> <p>THINKY ARE-250 Mixing and degassing machine</p>  <p>intertronics adhesives, coatings, sealants & equipment for your manufacturing and technology applications</p> 	<p>Mixing silicones for facial and other prosthetics</p> <p>University Hospital Coventry chose a THINKY mixer to save time and improve the quality of their silicone mixing process to produce prosthetics.</p>
--	---

THI ARE-250

THINKY

THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

CASE STUDY

intertronics
adhesives, coatings, sealants & equipment
for your manufacturing and technology applications

THINKY ARE-250
Mixing and
degassing machine



Effective mixing of specialist glass powders with a high viscosity acrylic resin

Consistent high quality mixing and improved degassing of powders into resins advanced the process capabilities of a ceramic materials company.

CASE STUDY

intertronics
adhesives, coatings, sealants & equipment
for your manufacturing and technology applications

Thinky ARE-250
Mixer
Conditioning
planetary mixing
and degassing
machine



Thinky mixing processes improve bonding in optical instrument manufacture

A planetary mixing and degassing machine was the perfect solution to ensuring a homogenous mixture of high specification adhesive for Gooch & Housego.

THI ARE-250

THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

[Getting to know THINKY Mixers](#)

Download a presentation which describes how THINKY Mixers work, and what benefits they can deliver to you.

Check out our [YouTube Channel](#) for more about the THINKY ARE-250:

Ordering Information

Part number	Description
THIARE-250	Thinky Mixer 240V CE Includes 3 x THI300ML 300ml jars, 1 x THI150ML 150ml jar and 1 x THI250AD-201 adapter
Containers	Adapter

THI ARE-250



THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

Part number	Description	
THI300ML	300ml HDPE thick wall jar with inner lid & cap – re-usable	None
THI150ML	150ml HDPE thick wall jar with inner lid & cap – re-usable	THI250AD-201
THI240ML	240ml Polypropylene jar and screw cap	THI250AD-80Z
Container adapters		
THI250AD-3S	Adapter for EFD-type 3ml syringe	
THI250AD-5S	Adapter for EFD-type 5ml syringe	
THI250AD-10S	Adapter for EFD-type 10ml syringe	
THI250AD-30S	Adapter for EFD-type 30ml syringe	
THI250AD-50S	Adapter for EFD-type 55ml syringe	
THI250AD-201	Adapter for THI150ML HDPE container	
THI250AD-80Z	Adapter for THI240ML Polypropylene container	
THI250AD-2.5S	Adapter for 2.5oz (~75ml) cartridge	

THI ARE-250



THINKY ARE-250 Mixing and Degassing Machine, Conditioning Planetary Mixer

Part number	Description
Other containers available by request. Adapters for cool or hot mixing. Adapters manufactured for your own containers.	

Supplied by:

intertronics

INTERTRONICS

12a Station Field Industrial Estate, Banbury Road, Kidlington

Oxfordshire England OX5 1JD

t 01865 842842 e info@intertronics.co.uk

Last updated: September 2017 Version: 3.6

Statements, technical information and recommendations contained herein are based on tests we believe to be reliable but they are not to be construed in any manner as warranties expressed or implied. The user shall determine the suitability of the product for his intended use and the user assumes all risk and liability whatsoever in connection therewith.