

# TRESU Agitators

Manage dispersion and minimize micro-foaming



Mix & match the right configuration for your application

TRESU agitators are indispensable tools in the flexo printing industry, given their ability to handle micro-foaming, maintain product uniformity and are ultimately a critical part of securing the quality of a printing process.

All WB inks, coatings and adhesives produce micro-foam at broad printing surfaces or at large consumptions, but by properly and efficiently managing the dispersion of inks, coatings, and other media, TRESU agitators offers:

- Consistent media product quality and reduced micro-foaming
- Uniform consistency when mixing 2 products and preventing sedimentation
- Stable operation with less waste
- The pneumatic agitator offers reduced velocity of the agitator and thus reduced costs and noise levels
- Modular Mix & Match choices between an electric or a pneumatic agitator and either a 3D engineered impeller or a durable stainless steel impeller for food applications

# TRESU Agitators

Managing dispersion of ink and avoiding micro-foaming



Stainless steel impeller for food applications



3D engineered impeller

Pneumatic agitators harness compressed air to generate motion, making them appropriate for use in environments where safety or cleanliness are paramount. However, they can not be used for packaging for the food industry, since the oil to lubricate the motor is not food approved.

Electric agitators rely on electric motors to power their movement and are typically more energy-efficient and versatile in terms of speed and torque control.

## TECHNICAL SPECIFICATIONS

Height	501 mm   19.5"	
Width	226 mm   8.8"	
Depth	150 mm   5.9"	
Power consumption	Electric agitator 0.06 kWh/hour Pneumatic agitator: 0.15 kWh/hour	
Rotational speed	373 rpm	
Energy class	IE1 (Mini motor)	
Usage in food industry	Electric: Yes Pneumatic: No (Non-approved oil lubrication) 3D impeller: No Stainless steel impeller: Yes	
Electric agitator	Motor 3W   Voltage 24V	
Pneumatic agitator	Max pressure 7 bar   air consumption 0.5 l/s at 500 RPM	
Applications	All applications where micro-foam occurs, mainly machines with a water-based colour, coating or adhesive. For mixing other substrates where sedimentation is likely to occur.	
Options	Impellers can be replaced	
Weights	Stainless steel impeller:	3D printed impeller:
Pneumatic	2.6 kg   5.72 lb	1.85 kg   4.07 lb
Electric	8.7kg   19.14 lb	7.95 kg   17.49 lb



### TRESU Agitators

All WB inks, coatings and adhesives can produce micro-foam, and the agitator has proven to reduce this significantly. It can also be used when mixing to keep a uniform consistency. The velocity of the electric agitator is adjusted on an electrical control and the velocity of the pneumatic agitator is adjusted on the air motor.

Micro-foam is an issue that occurs with WB inks, coatings and adhesives, when there is a large consumption of e.g. inks. A large consumption is either due to high velocity on the printing press, or a wide printing surface.

The high number of cells on the anilox that is continuously emptied for ink, returns with air to the chamber, which is then mixed into the ink. We call it micro-foam.

Micro-foam results in poor performance of the pumps, leading to increased waste and press downtime and can lead to various print defects:

- Ink film splitting
- Uneven colour distribution
- Starvation
- Pinholes
- Mottling