

Nano pulverization in just 2 to 15 minutes! Preserves material quality with a cryogenic cooling function

NP-100 Nano Pulverizer

70ml 10g	10g 350g	Non-vacuum	400G	Adjustable	-20°C
Max processing volume (Liquid measure) (Material)	Max processing weight (Net weight) (Gross weight)	Pressure	Revolution acceleration	Rpm	cooling temperature

Nano Pulverizer NP-100 using the principle of rotation/revolution mixing can pulverize quantities as minimal as 10 mg, with a pulverizing time (organic compounds) of just 2 minutes. And, by cooling the chamber atmosphere up to -20°C, it avoids material deterioration due to a rise in pulverizing temperature. Further, it minimizes contamination by performing the effective nano pulverization process with a small ball weight inside a closed container, achieving preparation of suspension, dispersion, and deaeration after material pulverization, all in one unit.

Features

- Effective pulverization using very small amount of poorly-water-soluble compounds (minimum 10 mg)
- Quick and easy process : pulverize in 2* to 5 min.
- Offers standard pulverization recipe**
Onboard temperature stabilization : process under 20°C
- Cost effective : minimum number of Zirconia balls*** needed
- Easy cleanup : cleanup Zirconia vessel quickly
- Minimum contamination : Zirconia balls and vessel contamination is very small
- Dispersion and Degassing : Mix uniformly and degas at the same time.

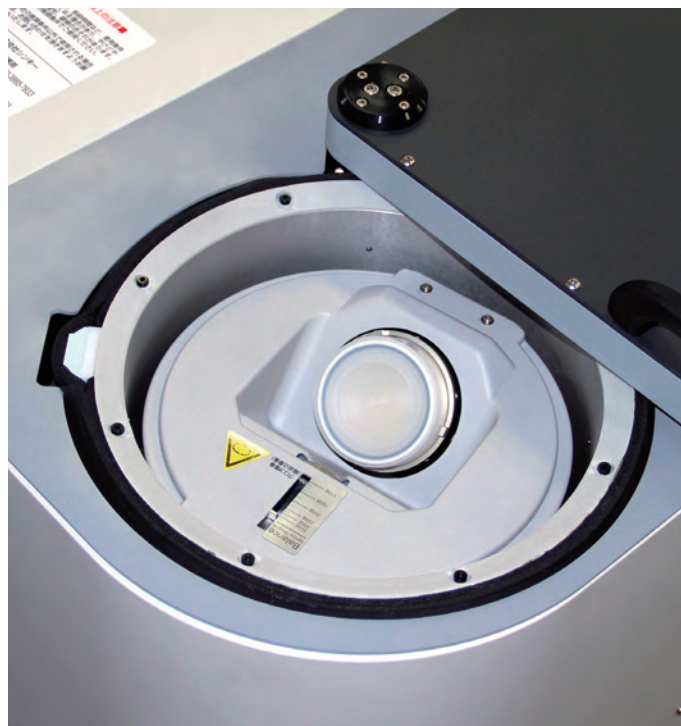
- Dimensions : H785 × W625 × D600 (mm)
- Weight : 96 kg
- Max processing volume with a 80 ml standard Zirconia container:
70 ml (Liquid measure) / 10 g (material, net)
70 ml (Liquid measure) / 350 g (gross)

* Pulverizing time with 100mg of material (organic compounds) about 2 minutes

** Offers standard pulverization parameters according to 10 to 100mg / 1g / 5g / 10g of material

*** Zirconia ball diameter: 0.1 mm. Weight: 2.5g for 100mg of material, 20g for 1g of material, 35g for 5g / 10g of some material

† 10ml zirconia container set is required in order to pulverize materials ranging from 10 to 100mg.



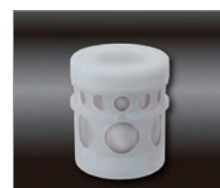
● Control panel



● Accessories:
Zirconia balls (Ø0.1mm)
*Actual container may differ from image



● Accessories:
Pulverization container set



● Accessories:
Media separation set

Nano Pulverizer

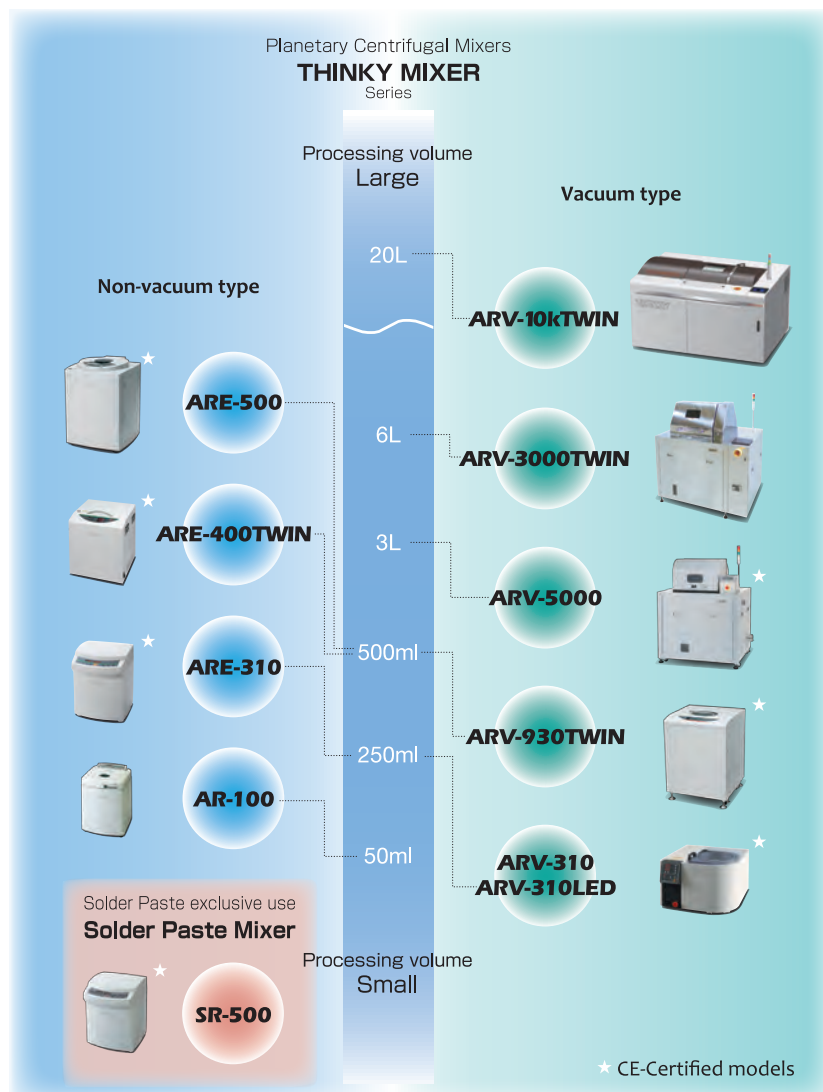
NP-100



Mode	NP-100	Revolution Speed (CLEAN MEDIA Mode)	Max 2000rpm (0, 400 rpm to 2000 rpm/ Setting is possible by 10rpm unit)	Power Supply	Voltage: Single-phase AC 120 V ± 10 %, 50/60 Hz Power consumption: Approx. 55 VA (standby) Max 1,400 VA (operation)
System	Rotation / revolution Nano Pulverizer	Max Processing Volume	With a 80 ml standard Zirconia container: 70 ml (Liquid measure) / 10 g (material, net) 70 ml (Liquid measure) / 350 g (gross)	Operating Environment	10 to 35 °C , 35 to 85 % RH (Ensure no water condensation)
Operation Time Setting	Timer setting range: 0 s to 30 min in 1 s increments Only one of the five steps can be set in the case of MILL / MIX Mode. Operation time is limited to the following specific ranges for number of revolutions: 400 to 1500 rpm ≤ 15 min 1510 to 1700 rpm ≤ 10 min 1710 to 2000 rpm ≤ 5 min	Cooling Function	The chamber cooling method that served as a protection drum. Cooling temperature set range: +20 °C to -20 °C	Transport Locking Mechanism ^{*3}	Depending on specifications
Continuous Operation Time	Max 30 min	Programming Function	9 recipe profiles with 5 steps	Unit Dimensions	H 785 × W 625 × D 600 (mm)
Revolution Speed (MILL / Mix Mode)	Max 2000 rpm (0, 400 rpm to 2000 rpm/ Setting is possible by 10 rpm unit)	Safe Mechanism	Circuit protector, Lid sensor, Vibration security mechanism sensor, Vibration sensor, Speed sensor, Emergency stop switch	Unit Weight	About 96 kg
				Accessories	Instruction Manual × 1 AC cable (including 3P adapter) × 1, Exclusive tool kit × 1, Corner type bat × 1
				Option	Media (Zirconia balls: Ø0.1 mm) Pulverization container set Media separation set Dummy weight set

*1: Net weight refers to material weight excluding container and adapter. *2: Gross weight refers to total weight of material, container and adapter. *3: Products are shipped and delivered in a locked state. Release the lock before use.

Line of Products



Planetary Centrifugal Nano Pulverizer



NP-100

Vacuum type Syringe Chargers



ARC-600TWIN

ARC-40H

- ...Planetary Centrifugal Mixers
- ...Planetary Centrifugal Vacuum Mixers
- ...Planetary Centrifugal Solder Paste Mixer
- ...Planetary Centrifugal Nano Pulverizer
- ...Vacuum Syringe Chargers