

rubato

Wide range of process application from rough grinding to fine grinding



Features

- Robust and simple structure.
- Optimum crushing with impact force / shearing force by using four different types of rotors.
- Easy adjustment of product particle size by changing the rotation speed and screen diameter.
- Fine grinding of a large amount in a short time.
- Abrasion-resistant liners for Rotor, Screen and Casing (option).
- Crushing soft and elastic material by shearing force from Chip Hammer and Saw Blade.

Application

Biomass Material

Construction Waste

Food

Chemicals

Mineral Ores

Battery Material

Feed Stuff

Fertilizer

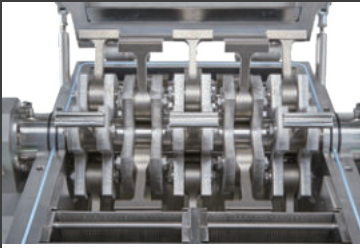
Synthetic Resin

Metal

Ceramics

Milling Rotors

Swing Hammer



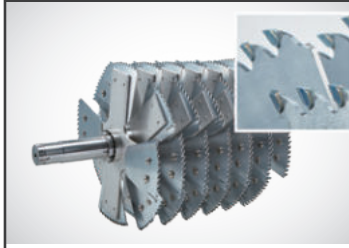
Swing Hammer smashes the material with strong impact force.

Chip Hammer



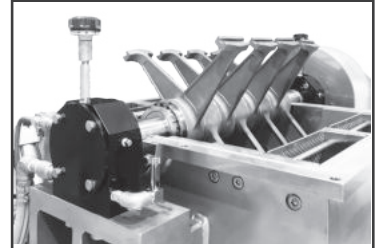
Chip Hammer chops the material with impact force and shear force.

Saw Blade



Saw Blade creates powerful shearing force with sharp blades to crush the fibrous raw material.

High-speed Hammer



High-speed Hammer creates powerful impact force with high-speed rotation for fine milling

Process Example

Swing Hammer



Bamboo



After Milling

Chip Hammer



Wood Chip



After Milling



Bamboo Chip



After Milling

Saw Blade



Palm EFB



After Milling

High-speed Hammer



Wood Chip

1st milling by Chip Hammer



After 2nd Milling

Specification

Type	rubato 400-1/2L	rubato 400	rubato 600	rubato 800	rubato 1000
Power (kW)	7.5	15	30	55~90	132~160
Rotor Diameter (mm)	400	400	600	800	1000
Rotor Type	Swing Hammer (H. Type), Chip Hammer (C. Type), Saw Blade (S. Type), High-speed Hammer (F. Type)				



NARA MACHINERY CO., LTD.

2-5-7, Jonan-jima, Ota-ku, Tokyo 143-0002, JAPAN TEL +81-3-3790-8011 <https://www.nara-m.co.jp/english>