

# HOSOKAWA MICRON INOMIZER

Super Fine Mechanical Pulverizer



## General

The Inomizer is the high speed impact type mechanical pulverizer which has been designed to pursue the ultimate grinding efficiency in the dry ultra fine powder production. The latest design challenges and surpasses the bounds of an impact type mill.

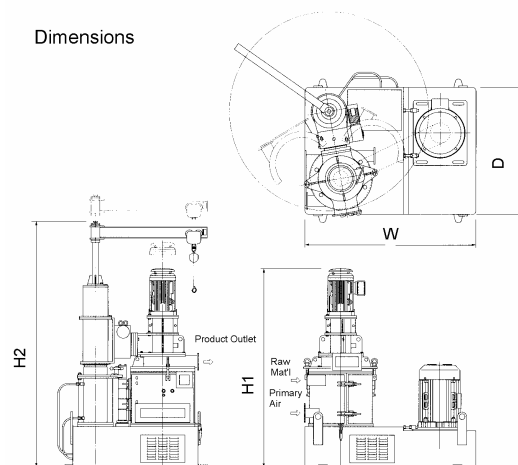
## Typical Application

- Toner
- Powder Paints
- Plastics
- Chemicals
- Inorganics
- Food/Organic Materials

## Specification

	INM-15	INM-30	INM-60
Scale Up Factor	0.5	1	2
Mill Power(kw)	7.5-11	15-22	30-45
Classifier Power (kw)	2.2	3.7	7.5
Mill RPM	10,000	7,000	5,000
Classifier RPM	9,500	8,000	6,000
Dimensions (mm)			
W	1,200	1,320	1,900
D	900	1,000	1,700
H1	1,200	1,450	2,200
H2	1,600	1,800	3,000

## Dimensions



## Application Examples for INM30

Material	Feed Size	Product Size	Capacity
Stearic Acid	Max. 3mm	D50 6.8micron	220 kg/hr
Blowing Agent	D50 18micron	D50 6.5micron	210 kg/hr
Calcium Phosphate	D50 16 micron	D50 3.8 micron	13 kg/hr
Toner(mono)	max. 2mm	D50 7.8 micron	35 kg/hr
Toner (bi)	max. 2mm	D50 8.32 micron	70 kg/hr
Color Toner	max. 1mm	D50 7.13 micron	25 kg/hr
Micro Toner	Max. 2mm	D50 5.83 micron	20 kg/hr
PTFE	D50 30 micron	D50 3.5 micron	24 kg/hr
Acrylic Resin	1mm dia x 2mm L	D50 9.7 micron	10 kg/hr
PFA	max. 5mm	D50 20.7 micron	25 kg/hr
SAP	Max. 1mm	D50 23..1micron	44 kg/hr
Powder Paint	Max. 2mm	D50 8.5micron	85 kg/hr
CMC	D50 58 micron	D50 18.4 micron	20 kg/hr
Sugar	D50 250 micron	D50 10.4 micron	167 kg/hr
Pigment	D50 80 micron	D50 12.5 micron	5 kg/hr
Wood Flour	Max. 355 micron	D50 18 micron	25 kg/hr
Calcium Chloride	max. 5mm	D50 3.3micron	37 kg/hr
Lithium Carbonate	D50 78 micron	D50 2 micron	72 kg/hr
Zirconia	D50 900 micron	D50 1.4 micron	128 kg/hr
Silica	Max. 5mm	D50 2.6 micron	114 kg/hr

## Features

### □ Supreme Grinding Performance

Produces ultra fine powder in the average size of several microns. Offers maximum 2 - 3 times grinding capacity (kg/kW) than jet mill systems. Saves 30-50% energy compared to jet milling system in the toner powder production.

### □ Top Product quality adds more value

Particle shape control and production of new composite material.

### □ Sharp Particle size distribution and precise top size control.

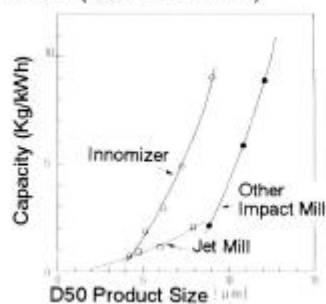
The built-in variable high speed type classifier offers flexible and precise particle size control.

### □ Quick Access for Easy Maintenance and Cleaning

Mill chamber in split body design. Top part can be electrically lifted up.

## Comparison Between Jet Mill and Conventional Impact Mill

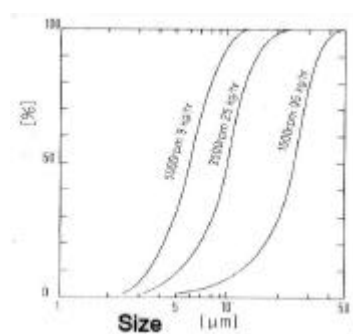
Limestone(Av.200micron feed)



Cellulose ( Av. 150micron feed)



## Comparison of PSD and capacity at varied classifier speed



Material : Toner(max. 1mm)

Model : INM30



## HOSOKAWA MICRON CORPORATION

Hosokawa Micron Corporation is a member of the Hosokawa Micron Group, responding to global needs through emphasis on materials equipment and systems for powder processing, thermal processing, environmental protection, and plastics processing. The Group maintains facilities for research, engineering, manufacturing, and service in each of the world's industrial markets.

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