

WET TYPE JET-MILL
JOKOH Nano Jet Pul
JN 20

Achieve below sub-micron diameter particle
Media-less Contamination-free
Handle from quantity of minimum 8ml samples
Handle high solid high viscosity samples
Compact machine with maximum pressure of 200MPa

JOKOH CORPORATION

JOKOH Nano Jet Pul JN 20

An Outline

The JOKOH NJP series is a wet type jet-mill machine intended for the atomization of slurry-state samples.

The JOKOH NJP series is a high pressure emulsifying, dispersing, pulverizing machine with a maximum pressure of 200 MPa.

Equipped with the unique JOKOH NJP emulsifying, dispersing, pulverizing unit, the sample is applied with pressure by high pressure pump and passed through the JOKOH NJP unit for emulsification, dispersal and pulverization of micro-particles.

This time, in addition to the conventional models, JN10, JN100, and JN1000 JOKOH newly developed electric-driven desk model wet type jet-mill machine **NJP JN20**.

Its performance is still as efficient as the conventional NJP series and it became more convenient by being miniaturized.

Features

Achieve below Sub-Micron Particle Diameter:

Realizes single dispersal below sub-micron level which has been considered difficult.

From mechanism characteristics view point, it keeps longer pressure time during the operation cycle therefore more rational atomization process will be available.

Minimum Contamination:

Implements atomization with minimum contamination in the area that were not possible with media milling machine.

Handle Even Very Small Amount of Samples:

Handles minimum of 8ml of samples by reducing quantity of the stay in the machine.

Safely handles expensive samples which can be obtained only in small quantity.

Handle High Solid High Viscosity Samples:

Handles directly high viscosity (under 20000cps) or high solid (under 60%) samples.

Easy Operation:

Realizes easier operation using a touch panel.

Compatible with Organic Solvents:

Organic solvent type samples can be processed due to the solubility resistant specifications.

However an explosion-proof specification are only available for the air-purge type.

Electric Servo Motor -Driven Desk Model Realizes maximum pressure of 200 MPa:

Generates maximum pressure of 200 MPa while small size being to be able to put on a test bed.

About the NJP Unit

1) Generation of the Jet Stream:

The sample pressurized by high pressure pump becomes liquid phase jet streams inside the JOKOH NJP unit.

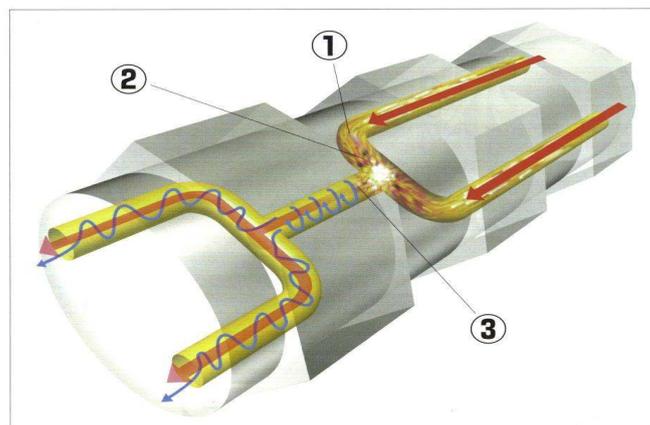
2) Basic Effect Linear Jet Stream:

First linear jet streams are generated for producing a basic effects.

Here the jet streams collide with each other to perform a main atomization process.

3) JOKOH Unique Vortex Jet Stream:

The linear jet streams become vortex jet streams, the vortex jet streams further heighten the atomization effects by the collision of the linear jet streams, further enhancing the effects of additives such as the dispersal agent.



Patents

USP5984519 USP6171070

References

Journal of Ceramic Society of japan 113 [7]491-494(2005)

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Standard specification/ Model	JN 10	JN 20	JN 100	JN 1000
Max.working Pressure (MPa)	150	200	250	200
Max.discharge (ml/min)	45	40	150	1000
Consumption power (KW)	—	0.75	5.0	12.0
Dimension (mm) (W)x(D)x(H)	800x535x680	550x325x370	970x570x1,550	—
Features	<ul style="list-style-type: none">• Pressure air drive• Very small amount of samples• Available for explosion proof specification	<ul style="list-style-type: none">• Electric servo motor drive• Small size and light weight• Touch panel easy operation	<ul style="list-style-type: none">• Electric-hydraulic drive• General-purpose machine which covers from laboratory to trial manufacture	<ul style="list-style-type: none">• Available for the use by the connection• Suitable for mass production

Safety instruction

Please use it precisely and safely after reading the instruction manuals.

Please do not install it in the place with much water, moisture, dust, electric noises. It may cause trouble or unexpected accident.

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