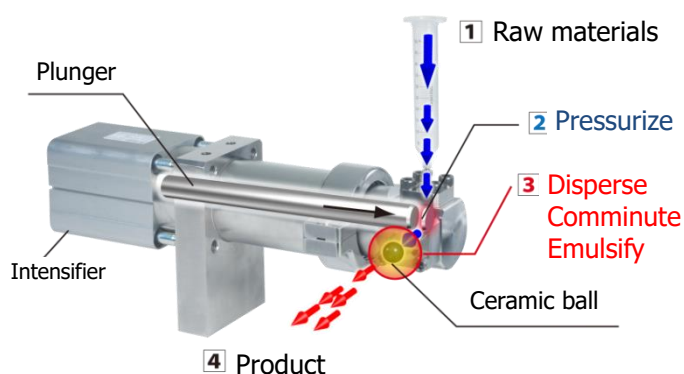


Star Burst Mini

Ideal for R&D of super fine particles and emulsions



Mechanism



Features

- 1. Ideal for valuable materials**
Required sample volume is minimum 20mL.
- 2. Minimum Contamination**
Star Burst does not use any grinding media and provides products with the minimum amount of contamination.
- 3. Sanitary Design**
Star Burst Mini can be easily disassembled and washed.
- 4. Suitable for Scale-up**

Usage example

Carbon Nanotube
20 passes, at 2000 bar



12% Silicone dioxide
5 passes, at 2000 bar



Application

- Particle dispersion/wet milling
- Emulsification
- Exfoliation of fiber-shape materials
- Delamination of layered materials

Specifications

Model	Motor	Throughput	Max. Pressure	External dimensions W x D x H	Weight
	kW	L/hr	MPa (bar)	mm	kg
Star Burst Mini HJP-25001CE	2,2 (400V)	max. 6	245 (2.450)	600×500×1.145	180

Wet Jet Milling & Dispersing Device

Star Burst 10

Standard model for Pilot test and Small production

SUGINO



High pressure jet chamber

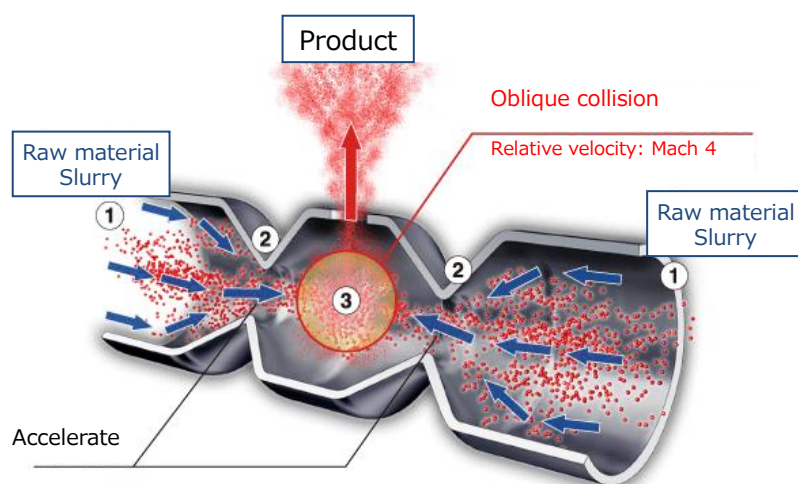


Image of the standard chamber (Oblique collision)

- ① Raw materials slurry or emulsion pressurized by an intensifier up to 245 MPa is supplied and branched in the chamber.
- ② The raw materials are accelerated at the diamond nozzles inside the chamber.
- ③ The raw materials are obliquely collided at the center of the chamber, atomized and discharged.

Star Burst 10

Star Burst 10 is a wet-type micronizing device to disperse, emulsify, comminute, and delaminate particles by the collision of the ultra-high pressurized slurry in several types of chambers. Its stable operation is achieved by two intensifiers keeping continuous pressurizing.

Test center



Specifications

Model	Motor	Throughput	Max. Pressure	External dimensions W x D x H	Weight
	kW	L/hr	MPa (bar)	mm	kg
Star Burst 10 HJP-25008CEV2	7,5 (400V)	max. 52	245 (2.450)	1.250×950×1.295	780

SUGINO MACHINE LIMITED

8F, OLINAS TOWER, 4-1-3, Taihei, Sumida-ku, Tokyo, 130-0012, Japan
Phone: +81 3 5619 5760 Email: export@sugino.com
(German office) Phone: +49 6196 6540230 Email: info@sugino-europe.de

Specifications in the leaflet are subject to change without prior notice for further improvement. This product and other related technologies (include the program) are subject to the terms and conditions of the relevant foreign trade acts depending on end users and their applicants. All the relevant forms must be submitted to the Japanese government, including the application to export technology. The content of this leaflet is as of Dec 2021. Any unauthorized use, copying or reprinting of the contents or part thereof in this leaflet is prohibited.