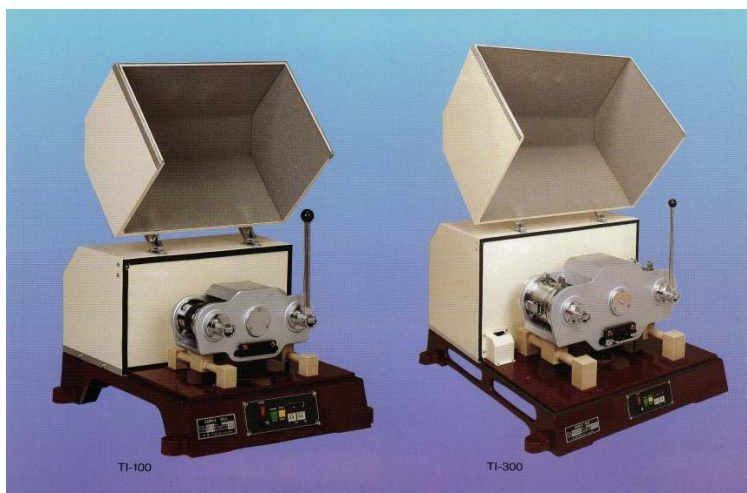


Hi-speed Vibrating Sample Mill



The unique highly efficient CMT Vibrating Sample Mill has outdated many other conventional grinding and milling machines. It is ideal for preparing samples in chemical studies especially X-ray and atomic absorption analysis. It is particularly suitable for grinding a small amount of sample.

The CMT Sample Mill grinds very rapidly into micro-fine particles by utilizing a patented sample container a grinding rod and vibratory motion (the acceleration reaches the magnitude nearly ten times the gravitational acceleration). It grinds not only hard materials such as coal, ores, marbles and quartz, but also soft materials such as dried grains, plants and small animals.

◆ FEATURES ◆

1. High speed grinding

Only 30 sec to 5min is required to grind most kinds of sample using a specially designed grinding rod and a powerful vibratory motion.

2. Easy fixing and removal of the sample container

Inserting and removing sample materials is made easy by the simple construction of sample container.

3. Two different kinds of sample material can be ground at the same time

The mill is supplied with two sample containers so that two different kinds of sample can be ground simultaneously.

4. Noise during operation is minimized

With the specially designed noise-proof case vibratory noise coming from the mill is minimized.

5. Space-saving compact model

Model TI-100 takes as little space as 602mm deep × 580mm wide × 400mm high

■ Grinding Test ■

Material	Sample Size	Model	Sample Rod shape	Grinding	
				Time	Ground Size
Glass beads	1~3.5mm	TI-100	WC 10ml C	3min	-200Mesh 97%
Iron Pyrite		TI-100	SUS 10ml A	2min	-200Mesh 95%
quartz	1~5.5mm	TI-200	SUS 50ml A	3min	-200Mesh 97%
Sintered alumina		TI-200	AL 50ml C	5min	-325Mesh 100%
Grass		TI-200	SUS 50ml A	5min	-200Mesh 100%
plant stem	3.5~7mm	TI-300	SUS 250ml B	5min	-200Mesh 100%
Paper pulp		TI-300	SUS 250ml A	5min	-100Mesh 100%

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■ Specification

Model	TI-100 for use with 2 containers of working capacity 3ml or 10ml				TI-200 for use with 2 containers of working capacity 50ml				TI-300 for use with 2 containers of working capacity 100, 150, 200, 250ml			
Vibration rotation	1,440r.p.m/50Hz, 1,730r.p.m/60Hz				1,430r.p.m/50Hz 1,720r.p.m/60Hz				1,410r.p.m/50Hz 1,700r.p.m/60Hz			
Amplitude	7mm				8mm				14mm			
Timer	0-60min (digital type)				0-60min (digital type)				0-60min (digital type)			
Moter	300W 1phase				400W 1phase				750W 3 phase			
Dimensions	580(Wide) × 620 (Deep) × 400 (High) mm				670(Wide) × 770(Deep) × 480(High) mm				910(Wide) × 945(Deep) × 590(High) mm			
Weight	70kg				120kg				300kg			
Sample Containers Material	Working Capacity	Type of Container	Rod Shape A B C	Balls	Working Capacity	Type of Container	Rod Shape A B C	Balls	Working Capacity	Type of Container	Rod Shape A B C	Balls
Hardened Steel SUJ (MC)	10ml × 2	H 1	○ ○ ○		50ml × 2	H 3	○ ○ ○		100ml × 2	F 3	○ ○ ○	○
		F 1	○ ○ ○	○		F 3	○ ○ ○	○				
Stainless steel SUS304 (SUS)		H 1	○ ○ ○			H 3	○ ○ ○				○ ○ ○	○
		F 1	○ ○ ○	○		F 3	○ ○ ○	○				
Hardned stainless steel SUS440C		H 1	○ ○ ○			H 3	○ ○ ○				○ ○ ○	○
		F 1	○ ○ ○	○		F 3	○ ○ ○	○				
Tungsten carbide WC (WC)		H 2	○ ○			H 4	○ ○		150ml × 2		○	
		F 2	○ ○	○		F 4	○ ○	○	200ml × 2		○	
Alumina ceramics Al2O3 (AL)		H 2		○		H 4		○	250ml × 2		○	
		F 2		○		F 4		○			○	
Zirconia ZrO2 (ZO)		F 2		○		F 4		○			○	
Silicon carbide SiC (SC)		F 2		○		F 4		○			○	
Silicon nitride Si3N4 (SN)	F 2		○	F 4		○			○			
Polyamide resin PL (PL)	F 2		○	F 4		○			○			

※ Please select : sample containers with rod (A. B. or C) or balls for each model

※ When ordering please specify mains voltage and frequency

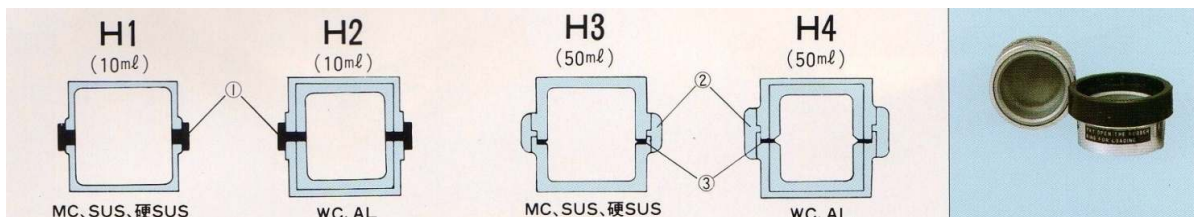
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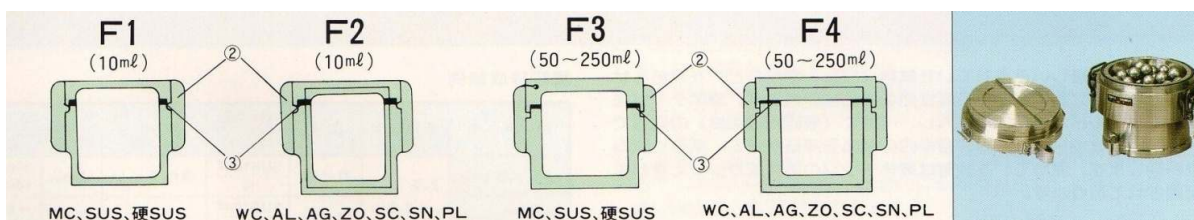
■ Type of Container

(①Rubber ring ②Lock ③Packing)

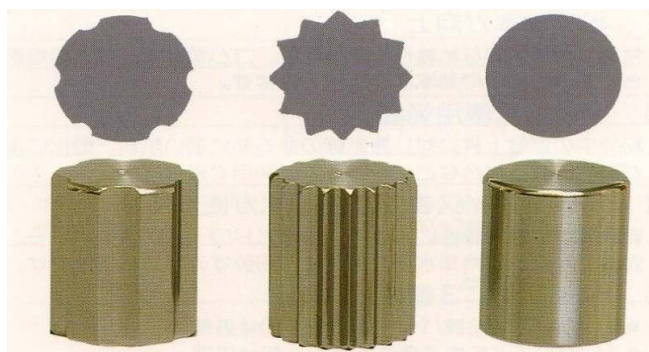
H type: for dry use



F type: for wet & dry use



■ Rod Shape



A rod

B rod

C rod

- A rod gear shaped
Standard type
- B rod fully cut gear shaped
Suitable for grinding fibrous sample
- C rod cylindrical shape
Standard type

✘ Please select : sample containers with rod (A, B, or C) or balls for each model

✘ When ordering please specify mains voltage and frequency

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