Specifications for Homogenizing Mill

Name: Gear-Drive Planetary Ball Mill

Type: Bench top design

Working Principle: Impact plus frictional force / Coriolis forces

Grinding mode: Wet and Dry

Number of grinding stations: 2

Material of grinding jars: alumina ceramic with top lid

Capacity of each grinding station: 500 ml

Grinding balls Size, material and quantity according to the attached table

Minimum sample quantity: 10 ml

Maximum sample quantity: 400 ml

Final fineness: < 1 µm

Rotational speed of main sun wheel: Adjustable from 50-400 rpm

Transmission ratio grinding bowl/planetary disk: I $_{relative} = 1:-2.19$

Continuous operating time: at least 48 hours

Control: rotational speed control, timer, Programmable grinding and break times and grinding

sequences

Electrical requirements: 220 V / 50-60 Hz

Spares: 1 no spare motor belt, spare fuse, Rubber jar cushion, Jar clamping device, spare cap screws

Note: Country of origin U.S or Eu only Make: Fristich or equivalent

Table for grinding balls:

Sr. No	Material of Balls	Size of Balls Diameter Ø (mm)		Quantity required
1	Hardened Stainless Steel		20	2 No
2	Hardened Stainless Steel		15	
3	Hardened Stainless Steel		10	7 No
4	Hardened Stainless Steel		5	6 No
5	Hardened Stainless Steel		3	240 No
6	Hardened Stainless Steel	•	1	100 gm
7	sintered corundum	20		100 gm
8	sintered corundum	15		3 No
9'	sintered corundum			12 No
10	tungsten carbide	10		15 No
11		5		100 No
12	tungsten carbide	3		100 gm
	tungsten carbide	1.6		100 gm
13	tungsten carbide	0.6		100 gm