

INMAK ENGINEERING SOLUTIONS

RESEARCH LAB
& PRODUCTION
Bead Mills

INMAK MILL

Your solution for wet grinding
& ultra fine dispersion



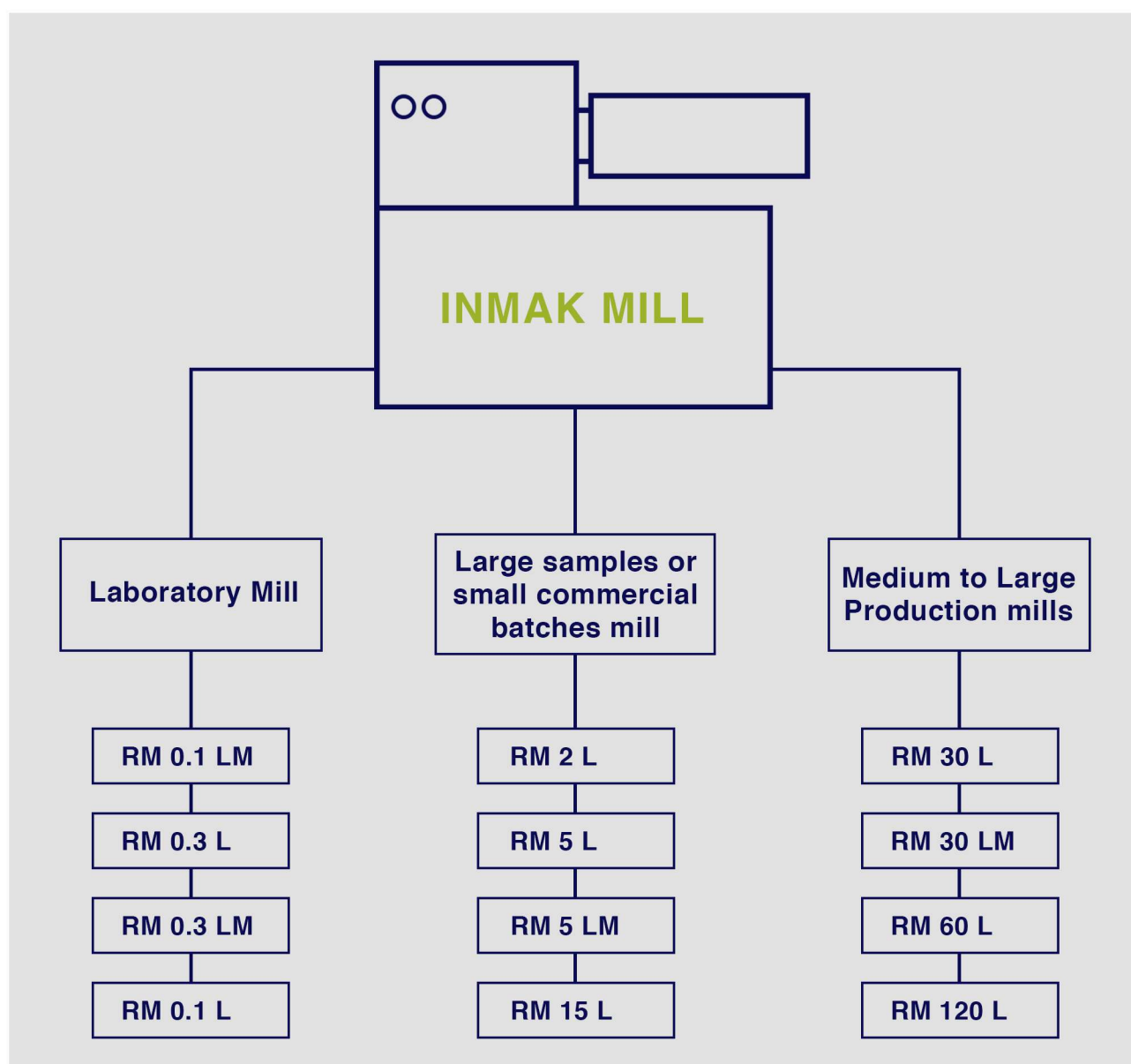
INMAK BEAD MILLS

When it comes to wetmilling of an insoluble particle to micron or **sub micron** level, bead mill has achieved a bliss point position for the process.

In the process of achieving required particle size with **uniformity** and comparatively in less time attracts several complications until you have right equipment for the job,

since particle size reduction is an essential aspect for **optimizing** product quality and performance on application, compromising with it, will cost to product reliability.

Reliance engineering company offers you a wide range of **finely** engineered equipments touched with decades of **experience** in the process from mini lab models to heavy duty large production models.



IM 0.1Ltr Horizontal Bead Mill

For minimum sample quantity wet milling and ultra fine dispersion

For last couple of decades **REC Lab mill** is undisputed specialist in **dispersion** and **milling** technology with its world renowned **RELIANCE MILLS**.

RM 0.1LM is capable of processing sample quantity of **100ml** with circulation holding of only **10ml**. This model is very useful where you are working with:

- highly toxic ingredient
- expensive ingredient
- problems to dispose rejected samples
- continuous research and development centres where you can process 10 different samples with altering recipe in 1 Ltr of Material.

INMAK has succeeded in developing a small agitator bead mill that permits:

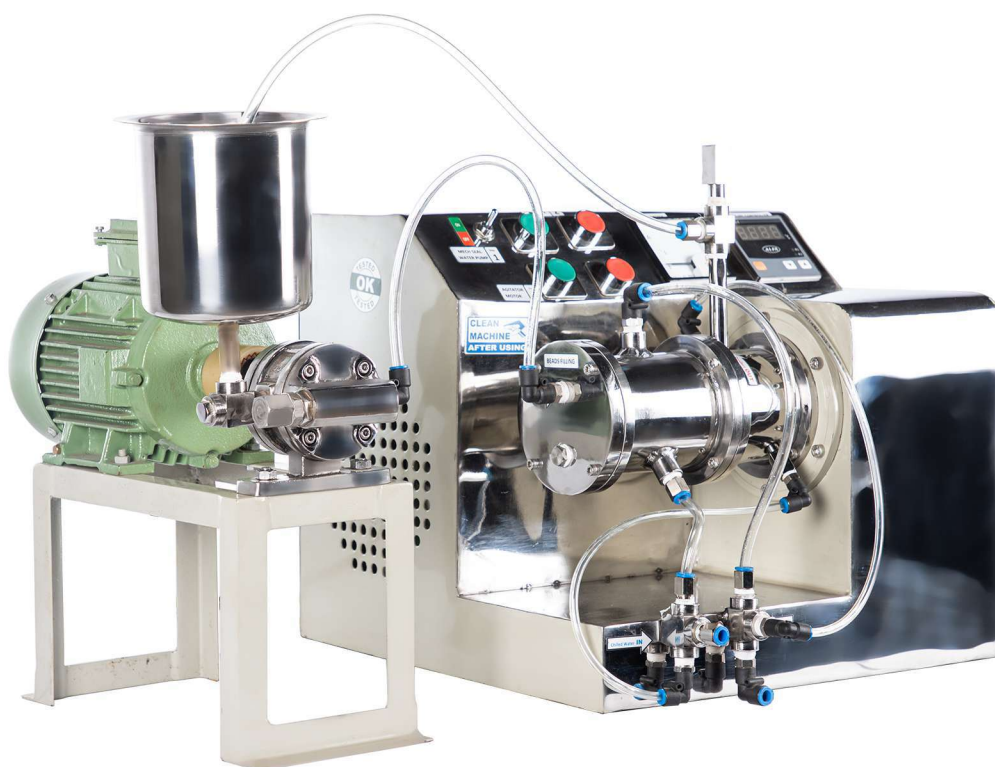
- Low to high viscosity products to be ground reproducibly or reproduce as ultrafine dispersions in the **Micron - Nano** range
- Small batches of product **100ml** to be processed in a continuous passage & circulate operation
- Products to be processed from the gap of **0.1mm** for ultra fine milling & dispersion
- **0.4mm beads** can be use to get final particle size of product in least passes
- Provides a feed vessel of 200ml or 500ml



Model	IM 0.1L
Power supply	3Ø AC - 1.5KW
Processing chamber brim volume	100 ML
Beads size to be used	0.4 - 0.6 mm
Particle size range	0.1 - 2 µm 95%
Product flowrate in LPH	10
Agitation RPM	2880
Dimension in Inch	18 x 20 x 21
Weight in KG	40

IM 0.3Ltr Horizontal Bead Mill

We are proud to introduce you our most trusted lab model with almost 140+ users in national and multi national organisations, where they warmly accepted our Lab mill for its robust durable design and user friendly operating.



Model	RM 0.3L	RM 0.3LM
Power supply	3Ø AC - 1.5KW	3Ø AC - 1.5KW
Processing chamber brim volume	300 ML	300 ML
Beads size to be used	0.8 - 1.2 mm	0.4 - 0.7 mm
Particle size range	2 - 5 μ m 95%	0.2 - 2 μ m 95%
Product flowrate in LPH	10	10
Agitation RPM	2880	2880
Dimension in Inch	18 x 20 x 21	18 x 20 x 21
Weight in KG	40	40

Scale-up from Laboratory to Production



Model	Power supply 3 phase AC in KW	Processing chamber brim volume in Litres	Product flow rate Litres/hour	Suitable batch size in Litres	Beads size in mm	Dimension in mm L x W x H	Weight in KG
IM - 1L	2.5 KW	1	21	1 - 5	0.8 - 1	350 x 400 x 450	58
IM - 1LM	2.5 KW	1	21	1 - 5	0.4 - 0.6	350 x 400 x 450	58
IM - 2L	3.6 KW	2	34	2 - 20	0.8 - 1.2	520 x 520 x 470	72
IM - 5L	6.5 KW	5	75	20 - 150	1.2 - 1.6	850 x 500 x 850	160
IM - 5LM	6.5 KW	5	75	20 - 150	0.4 - 0.6	850 x 500 x 850	160
IM - 30L	16.5 KW	30	300	500 - 1000	1.4 - 1.8	1100 x 850 x 1140	495
IM - 30LM	16.5 KW	30	300	500 - 1000	0.4 - 0.8	1100 x 1000 x 1140	500
IM - 60L	32 KW	60	550	1000 - 3000	1.4 - 1.8	1500 x 1000 x 1320	920
IM - 120L	58 KW	120	1100	3000 - 10,000	1.4 - 1.8	1720 x 1500 x 1400	1700