



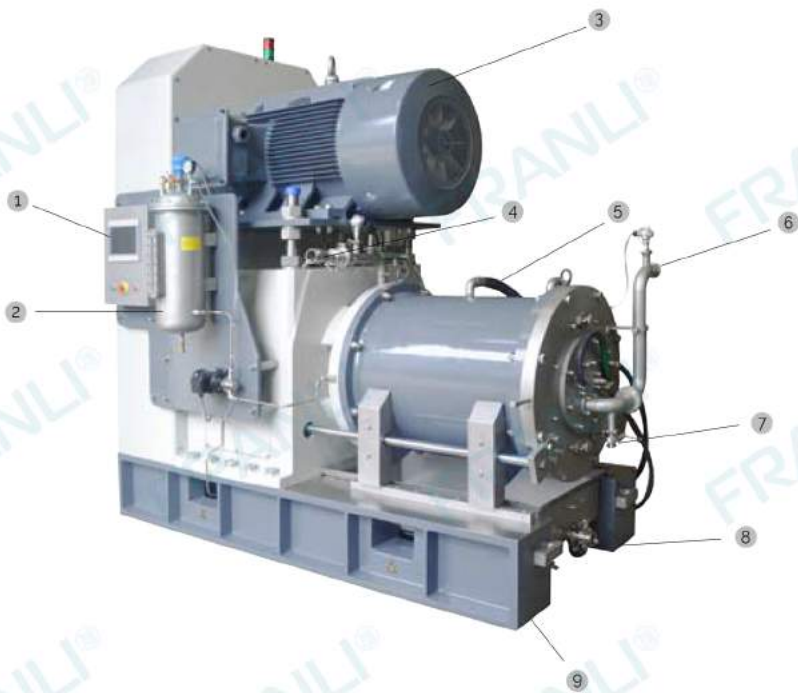
Bead Mill

One stop service

SMP SERIES Agitator Bead Mill

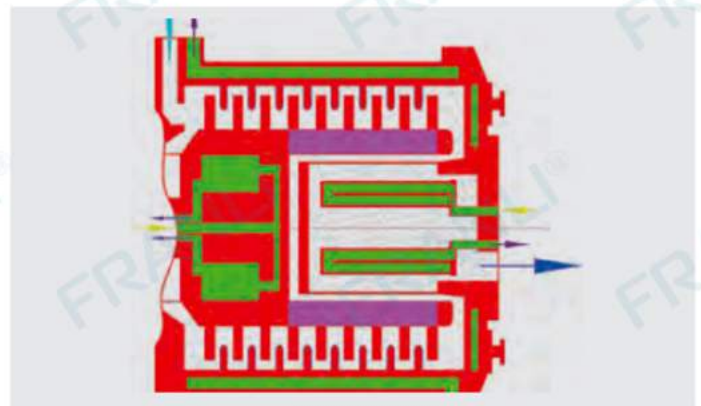
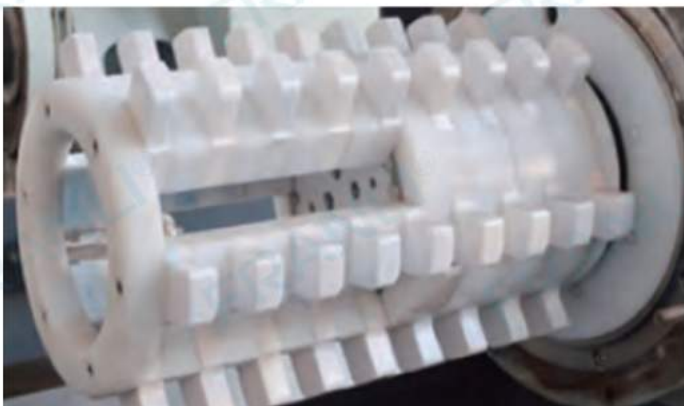
Application: Mainly used for battery industry, digital consumptive materials, ceramic materials, mineral pigment, rare-earth materials, cosmetics, pharmaceutical preparation, etc.

- Battery Industry: cathode materials of the lithium iron phosphate batteries.
- Digital Consumptive Materials: digital jet printing ink.
- Ceramic Materials: alumina oxide, zirconia, silicon carbide.
- Mineral Pigment: titanium pigment, calcium carbonate, ferric oxide.
- Rare-earth Materials: zirconium oxide, cerium oxide, etc.
- Cosmetics: pearl powder.
- Pharmaceutical Preparation.



Equipment details

- 1 Operation box
- 2 Coolant storage tank
- 3 Motor
- 4 Material inlet
- 5 Grinding chamber
- 6 Material outlet
- 7 Sample inspection port
- 8 Port for receiving tray
- 9 Sliding track



| Model | SMP-0.5 | SMP-1 | SMP-6 | SMP-10 | SMP-25 | SMP-60 | SMP-90 | SMP-150 | SMP-400 | |
|-------------------------|----------|----------|----------|----------|----------|----------|----------|----------|----------|------|
| Volume (L) | 0.5 | 1 | 6 | 10 | 25 | 60 | 80 | 146 | 402 | |
| Beads (mm) | 0.03~1.0 | 0.03~1.0 | 0.03~1.0 | 0.03~1.0 | 0.03~2.0 | 0.03~2.0 | 0.03~2.0 | 0.03~2.0 | 0.03~2.0 | |
| Batch (L) | 1~3 | 2~20 | 50~150 | 100~1000 | 500~2000 | >1000 | >1500 | >2000 | ≥3000 | |
| Motor (kw) | 4 | 5.5 | 15 | 18.5~22 | 45 | 75~90 | 110~160 | 160~250 | 400~500 | |
| Speed (rpm) | 0~3000 | 0~3000 | 0~1500 | 0~1300 | 0~1000 | 0~800 | 0~650 | 0~580 | 0~480 | |
| Fineness (nm) | D90<100 | D90<100 | D90<100 | D90<100 | D90<100 | D90<100 | D90<100 | D90<100 | D90<100 | |
| Overall dimensions (mm) | L | 800 | 1000 | 1250 | 1400 | 2100 | 2200 | 2500 | 2900 | 2700 |
| | W | 600 | 700 | 1050 | 1200 | 950 | 1000 | 1100 | 1220 | 1600 |
| | H | 720 | 820 | 1480 | 1800 | 1660 | 2300 | 2400 | 2600 | 2400 |
| Weight (kg) | 160 | 200 | 600 | 1500 | 2200 | 3000 | 5400 | 8000 | 11000 | |

SMP-1 Agitator Bead Mill

Application: Widely used in ceramics, ink, color filter separating agent, functional ceramic, lithium battery materials, thermal paper, electronic slurry, nano paste, pesticides and other fields nano grinding.



| Model | SMP-6 | SMP-10 | SMP-30 | SMP-60 | SMP-90 | SMP-150 | SMP-300 |
|----------------------|-------|--------|--------|--------|---------|---------|---------|
| Vessel capacity(L) | 6 | 10 | 30 | 60 | 90 | 150 | 300 |
| Main motor power(kw) | 15 | 22 | 45 | 75-90 | 110-132 | 160-185 | 250-315 |
| Grinding media(mm) | 0.2-2 | 0.2-2 | 0.2-2 | 0.2-2 | 0.2-2 | 0.2-2 | 0.2-2 |
| Weight(kg) | 600 | 750 | 1500 | 3000 | 4000 | 6000 | 7500 |

SMP SERIES

Agitator Bead Mill

Application:

- Battery Industry: cathode materials of the lithium iron phosphate batteries.
- Digital Consumptive Materials: digital jet printing ink.
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- Mineral Pigment: titanium pigment, calcium carbonate, ferric oxide.
- Rare-earth Materials: zirconium oxide, niobium oxide, cerium oxide, etc.
- Cosmetics: pearl powder.
- Pharmaceutical Preparation.



Equipment details

- 1 Operation desk
- 2 Material inlet
- 3 Grinding chamber
- 4 Receiving tray
- 5 Coolant storage tank
- 6 Pressure gauge
- 7 Material outlet
- 8 Diaphragm pump

Technical parameter

| Model | | SMT-0.5 | SMT-5 | SMT-15 | SMT-30 | SMT-90 |
|---------------|---|---------|---------|---------|----------|----------|
| Power (KW) | | 3~4 | 11~15 | 30~37 | 37~45 | 55~75 |
| Power (L) | | 0.4 | 5 | 15 | 30 | 90 |
| Beads (mm) | | 0.1~1.2 | 0.1~1.2 | 0.3~1.2 | 0.3~1.2 | 0.3~1.2 |
| Speed (r/min) | | 0~3000 | 0~2500 | 0~1800 | 0~1500 | 0~850 |
| Output (L/h) | | 1~30 | 200~450 | 300~800 | 500~1200 | 800~3000 |
| D (mm) | L | 800 | 1250 | 1550 | 1800 | 2300 |
| | W | 600 | 1050 | 1400 | 1400 | 1000 |
| | H | 720 | 1480 | 1900 | 1900 | 1700 |

Optional configuration table

| Configuration table (● Standard / ○ Optional) | | |
|---|---------------------------------|---|
| Explosion-proof | | ○ |
| Cylinder | 304 stainless steel passivation | ○ |
| | A3 carbon steel with paint | ● |
| Material of cylinder liner | Ceramic | ● |
| | Die steel | ○ |
| Pump | Gear pump | ○ |
| | Diaphragm pump | ● |
| | Hose pump | ○ |
| PLC | Siemens | ○ |
| | Domestic | ○ |
| Inverter control | ABB | ○ |
| | Domestics | ● |
| Auxiliary cooling system | | ○ |
| Feed filter | | ○ |
| Discharge filter | | ○ |

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