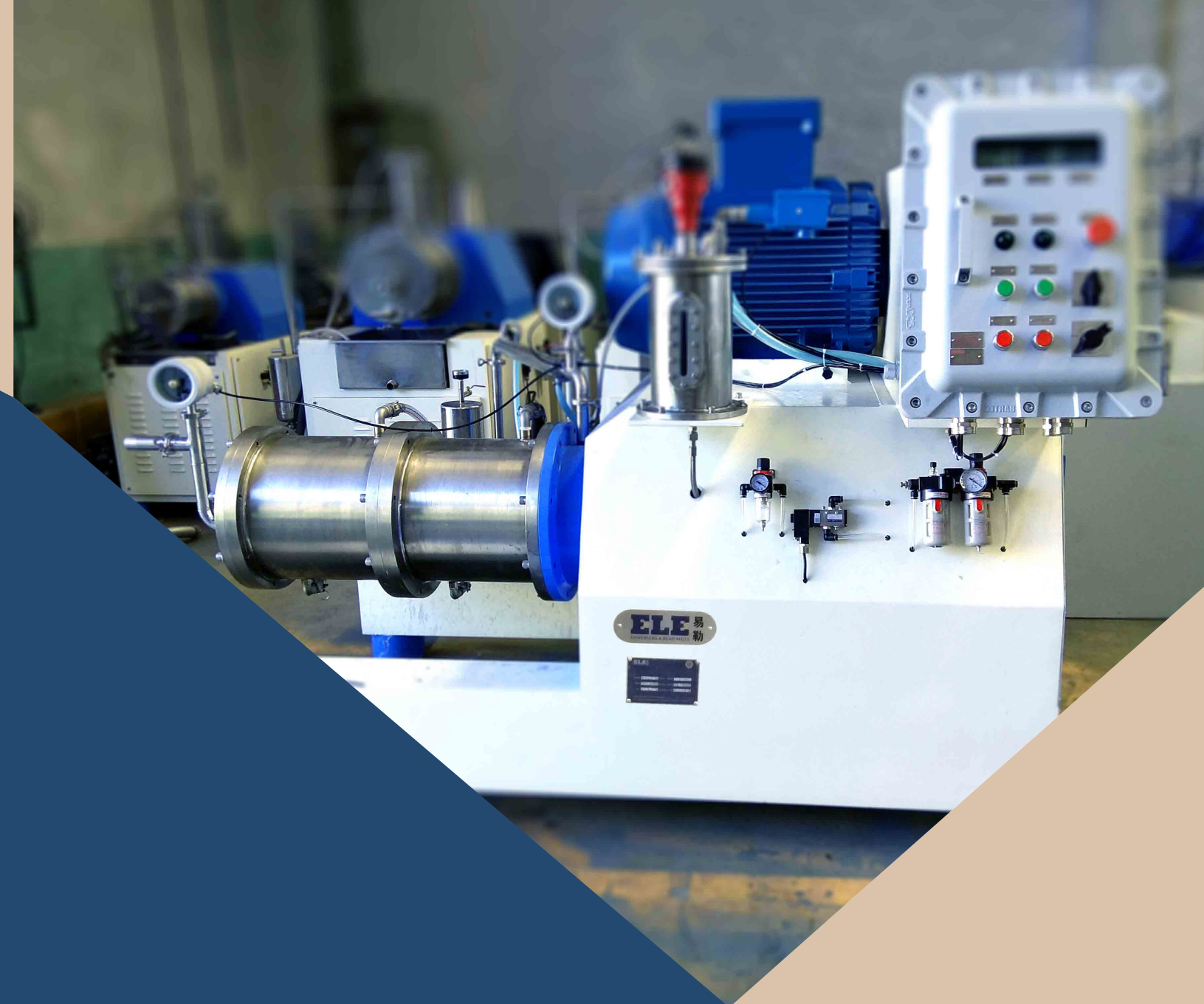




上海易勒机电设备有限公司

SHANGHAI ELE MECHANICAL & ELECTRICAL EQUIPMENT CO.,LTD.

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ELE 易勒
DISPERSERS & BEAD MILLS

高效砂磨机系列

HIGH EFFICIENCY
BEAD MILL / SAND MILL

关于易勒

ABOUT ELE

ELE砂磨机采用CNC精加工制作，并通过CE认证。国际先进的长径比设计，高能量集中实现大流量超细化研磨，让研磨能量尽最大的被有效利用。

ELE砂磨机配置的集装式双端面机械密封专利（发明专利号：201610459850.7），最大可耐8-10KGS压力，专为砂磨机的工况而设计，专为带细颗粒物料而设计，整体件，使用安装方便，无需专业人员即可自行更换。

先进的出料方式，采用独到的大面积管状栅网离心分离器，精密分离，出料顺畅。

易勒砂磨机解决您工艺中的细度、温度、产量、颜色或金属污染等难题。

ELE品牌自始至终引领着分散与研磨技术。终端产品的高品质依赖于ELE对每一个零部件的精细加工与耐磨性处理。ELE针对各种工艺拥有多种不同的研磨机以满足您对产品 and 工艺的特殊需求。

众多知名油墨、色浆、油漆、纳米材料、农药等厂家选择易勒砂磨机是因为技术成熟可靠而先进，用着放心。易勒的工艺工程师对各种物性有着丰富的经验，这也是易勒在砂磨机领域23年专研所获得的成就，同时也是用户可靠的宝贵资源。

ELE bead mill adopt CNC machining production, and has got CE approval. The international advanced design of length to diameter ratio, high energy concentration realize large flow ultrafine grinding, grinding energy will be used as efficiently as possible.

ELE bead mill adopt double cartridge mechanical seal with patent No.:201610459850.7, maximum 8-10KGS pressure resistance, specially designed for grinding materials with small particles. Overall unit, convenient to use and install, no need professionals to change.

Advanced discharging method, using unique large area of tubular reseau centrifugal separator, precise separation & smooth discharging.

ELE bead mill will solve all the ticklish problems in your process, like material fineness, temperature, output, pure color and metal contaminations.

ELE brand leads dispersion and grinding technology all

along. High quality of end products depends on our fine processing and abrasion resistance processing for each components & parts. According to various processing technology, we have various different bead mills to meet your special demands for products and processes.

Owing to mature technology, reliable and advanced, numerous well-known manufacturers in the fields of printing ink, color paste, paint, nanomaterials, pesticide, etc, finally choose ELE bead mill. Our engineers own rich experiences for a variety of materials. It is also our great achievement in the field of bead mill with 23 years special researches, meanwhile reliable & valuable resources for users.

■ 发展至今已有23年
23-Year Developing Record

■ CE认证
CE Certification

■ CNC精加工制作
CNC Finishing Production

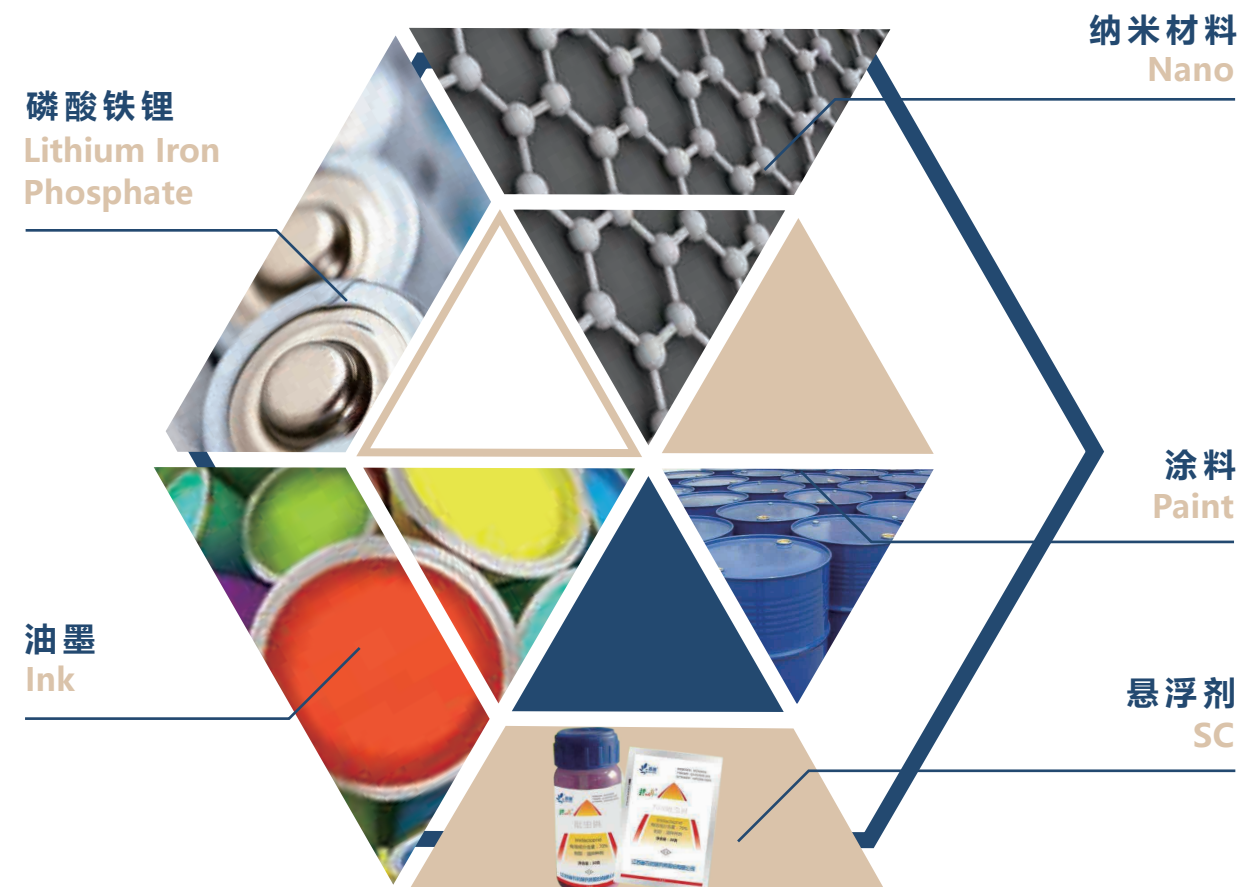


应用领域

APPLICATION FIELDS

涂料：水性涂料，油性涂料，装饰涂料，乳胶漆；
油漆：汽车漆，面漆，木器漆，工业漆；
油墨：凹版油墨，柔版油墨，胶印，丝网，UV油墨，数码喷绘油墨；
颜料：染料，彩绘，笔液，水彩；
电子材料：电池隔膜氧化铝，磷酸铁锂，陶瓷浆料，阻燃剂；
食品行业：巧克力浆，酱类；
农药行业：农药悬浮剂，乳油，水乳剂，微乳剂；
日化用品：化妆品，洗手液，沐浴露，洗衣液等；
生物医药：藻类细胞破碎，微生物功能材料；
纳米材料：金属氧化物，磁性材料，造纸行业，光电行业。

Coating: Water-based coating,Solvent-based coating,Decorative Coating,Latex paint;
Paint: Car Paint,Finish paint,Wood paint,Industrial paint;
Ink: Gravure Printing ink, Flexographic ink,Offset printing ink,Silk screen ink,UV light solid ink,Digital inkjet ink etc;
Pigment: Dye,Color painted pigment,Pen liquid, Watercolor;
Electronic Materials: Battery diaphragm alumina,Lithium iron phosphate,Ceramic slurry, Flame retardant;
Food Industry: Chocolate Syrup,Paste etc;
Pesticide: Pesticide suspension, EC,EW,ME;
Daily Chemical Industry: Cosmetics,Liquid soap,Shower gel,Liquid detergent etc;
Biological Medicine: Algae cell fragmentation,Microbiological functional materials;
Nano Materials: metal oxide,Magnetic Materials,Paper industry, Optoelectronic industry.



保修与服务

MAINTENANCE & SERVICES

- 1.订货前,可以带料来我们的实验室试研磨,并现场测试粒度分布等参数，获得可靠的数据用于选型；
 - 2.我们为你提供中英文操作手册；
 - 3.我们为贵司提供设备安装及维护中英文视频；
 - 4.机械配件三年的配件库存量，保障您的使用，让您无后顾之忧；
 - 5.设备出售后12个月内，对于损坏部件免费提供，我们将通过空运或者汽运的方式；
 - 6.交货后，我们的专业工程师免费上门指导调试，针对物料的不同特性，来设置砂磨机的运行参数，确保物料研磨品质与设备最佳的运行状态；
 - 7.保修期过后，我们提供维护及保养服务，只收取成本费用；
 - 8.同时我司研磨专家，让您可享受免费专业技术咨询与服务。
- 1.Before order, customer can take materials to our lab and make test grindings, spot-testing parameters like particle size distribution, obtain reliable data for model selection;
 - 2.We provide you opeatian manual by chinese or English;
 - 3.We offer you Videos for equipment installation and maintenance in both English and Chinese;
 - 4.With three years of spare parts inventory to ensure normal use and make you to be in trouble free;
 - 5.Within 12-months warranty period, we promise to change damaged parts free of charge by air or by sea;
 - 6.After delivery, our professional engineer will offer on-site guidance debugging free of charge, according to different characteristic of materials, to set up the operational parameters of the mill and ensure optimal grinding quality & equipment running status;
 - 7.After the warranty period, we provide maintenance and maintenance service, only charge the cost;
 - 8.Meanwhile, our skillful grinding experts can offer you free professional technical consulting and service.



ESW-750实验室卧式砂磨机

ESW-750LAB HORIZONTAL BEAD MILL

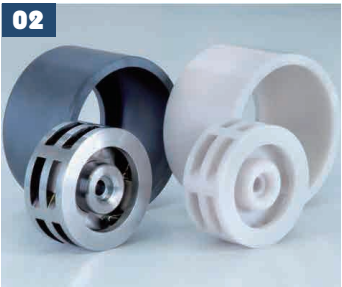
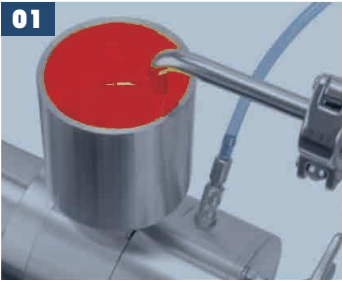
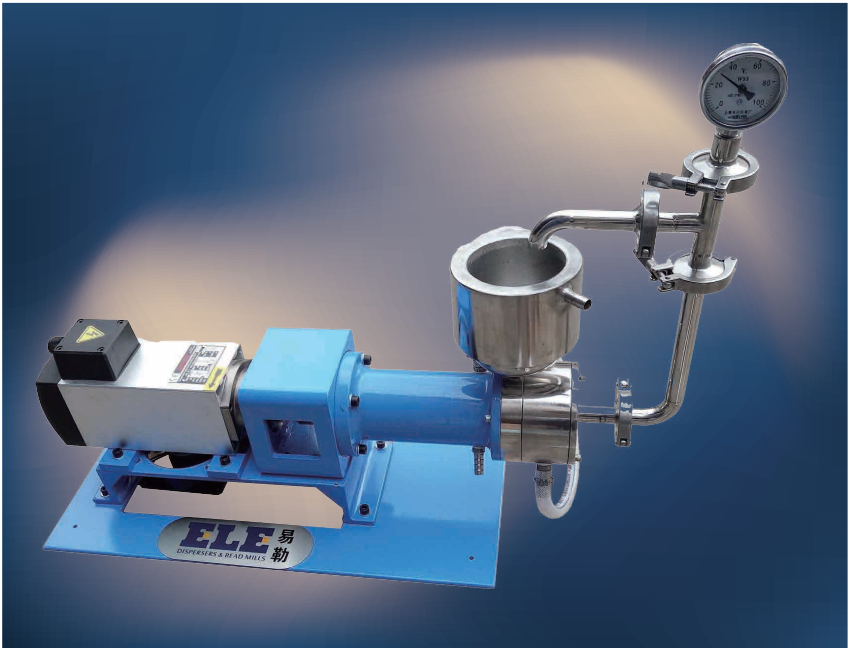
ELE-MILL RESEARCH LAB的成功研发标志着砂磨机系列的完善，该机可满足：

- ◆适用于连续或循环式工艺。
- ◆该款设备非常便于操作，采用极小的研磨腔体，物料损失极小，专为高价值物料而设计。
- ◆机械密封设计结构紧密，冷却液循环确保双机械密封的长久正常工作。
- ◆高耐磨材质设计确保产品的耐用性及免于金属污染。
- ◆精细分散与研磨从微米到纳米级的不同粘度产品。

The successful research and design of ELE-MILL RESEARCH LAB marks great improvement on ELE Bead mill. It enjoys several advantages as follows:

- ◆ Suitable for continuous or circulating processing.
- ◆ Easy to operate, using smaller grinding chamber, with minimum material loss, specially designed for high value materials.
- ◆ Mechanical seal with compact structure, Cooling liquid circulation pump ensure normal work of double mechanical seal for long time.
- ◆ High-wear resistant material ensures durability & avoiding metal contaminations.
- ◆ Ultrafine dispersing & grinding materials with different viscosity from micron to nano.

型号 Model	研磨腔体积 Chamber Volume (ML)	主机功率 Power (kw)	转速 Speed (rpm)	流量 Flow (L/H)	外形尺寸 Dimension (mm)	整机重量 Weight (kgs)
ESW-750	400	3.7	0-6000	0.1-3	450×210×360	60



ESW-1.0实验室卧式砂磨机

ESW-1.0 LAB HORIZONTAL BEAD MILL

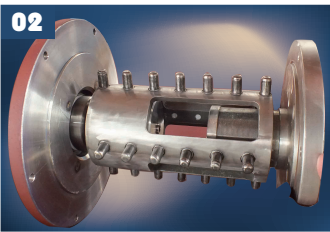
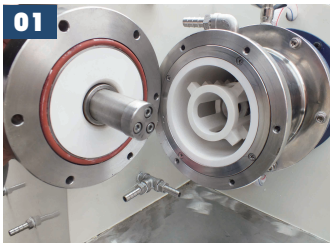
本机为实验室小样用研磨细化设备，是新品研发与小样制作的理想机型：

- ◆实验室小样精磨专用机，研磨腔体小，能量集中，研磨效能高且有利减少物料的损失。
- ◆能量优化利用，结构紧凑，易操作。
- ◆理想的循环、通道式工艺结构，易清洗。
- ◆独特的研磨结构，可使研磨介质在研磨腔内分布更加合理。

The small bead mill is lab sample grinding machine, it is the ideal machine for developing new product & sample production:

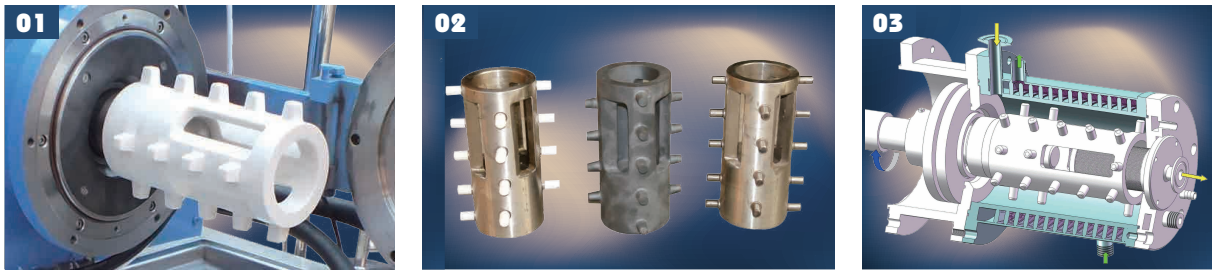
- ◆ Lab samples fine grinding machine, with smaller grinding chamber, energy concentration, high grinding efficiency and beneficial to reduce the loss of material.
- ◆ Optimize energy utilization, compact structure, easy to operate.
- ◆ Ideal circulation-channel type process structure, easy to clean.
- ◆ Unique grinding structure, grinding medium distribute more reasonably in the chamber.

型号 Model	研磨腔体积 Chamber Volume (L)	主机功率 Power (kw)	转速 Speed (rpm)	流量 Flow (L/H)	外形尺寸 Dimension (mm)	整机重量 Weight (kgs)
ESW-0.5	0.5	3	0-3000	0.5-15	1100×800×1300	200
ESW-1.0	1.0	4	0-3000	2-30	1200×900×1400	260



EDW系列/ 棒销式卧式砂磨机
高效纳米研磨机

EDW PIN-TYPE HORIZONTAL BEAD MILL
HIGH-EFFICIENCY NANO GRINDING MILL



ELE-EDW MILL 棒销珠磨机适合大型工业化连续式生产，其优势在于：

- ◆适用于高粘度、高固含量、高细化要求的物料连续或循环式工艺操作。
- ◆EDW系列采用独到的大面积管状栅网离心分离器，精密分离，出料顺畅，解决了出料速度慢，及卡研磨介质的现象。并可采用超细磨珠,最小可采用0.05出料网。
- ◆特种材质的选用（氧化锆/碳化硅/硬质合金钢等）使所有加工制造的接触部件耐磨率增强，采用内螺纹式冷却方式，有效提高研磨腔内部热量的及时散失。
- ◆独特的集装式双端面机械密封，确保轴密封的长久运转，可承受8-10公斤的压力。

Suitable for large industrial continuous production, and its advantages are as the following:

- ◆Suitable for products with high viscosity,high solid content & high refining requirements,for continuous or circulating process operations.
- ◆EDW adopt unique large area tubular reseau centrifugal separator, precise separation & smooth discharging, solve the problems of slow discharging speed and blocking of grinding medium. It can use ultrafine grinding medium. At the smallest0.05 discharging sieve can be applied.
- ◆Selection of special material (zirconia / silicon carbide / hard alloy steel etc.) enhance wearability of all processing contact parts. It adopts internal thread type cooling way, effectively improves heat dissipation the grinding chamber.
- ◆Unique double cartridge mechanical seal, to ensure long operation of shaft seal ,maximum 8 -10 kg pressure resistance.

型号 Model	研磨腔体积 Chamber Volume (L)	主机功率 Power (kw)	转速 Speed (rpm)	流量 Flow (L/H)	外形尺寸 Dimension (mm)	整机重量 Weight (kgs)
EDW-5	5	11	0-1500	30-200	1100×850×1600	400
EDW-10	10	22	0-1200	50-300	1400×1100×1750	600
EDW-15	15	37	0-1200	100-500	1550×1100×1800	1200
EDW-30	30	55	0-1000	200-1000	1850×1300×1700	2200
EDW-50	50	75	0-860	>1000	2200×1500×1800	2800
EDW-100	100	110	0-750	>1500	3150×1500×2000	5500
EDW-150	150	250	0-580	>2000	3300×1500×2300	8300
EDW-400	400	500	0-480	>3000	3300×1500×2600	11700

大流量卧式砂磨机

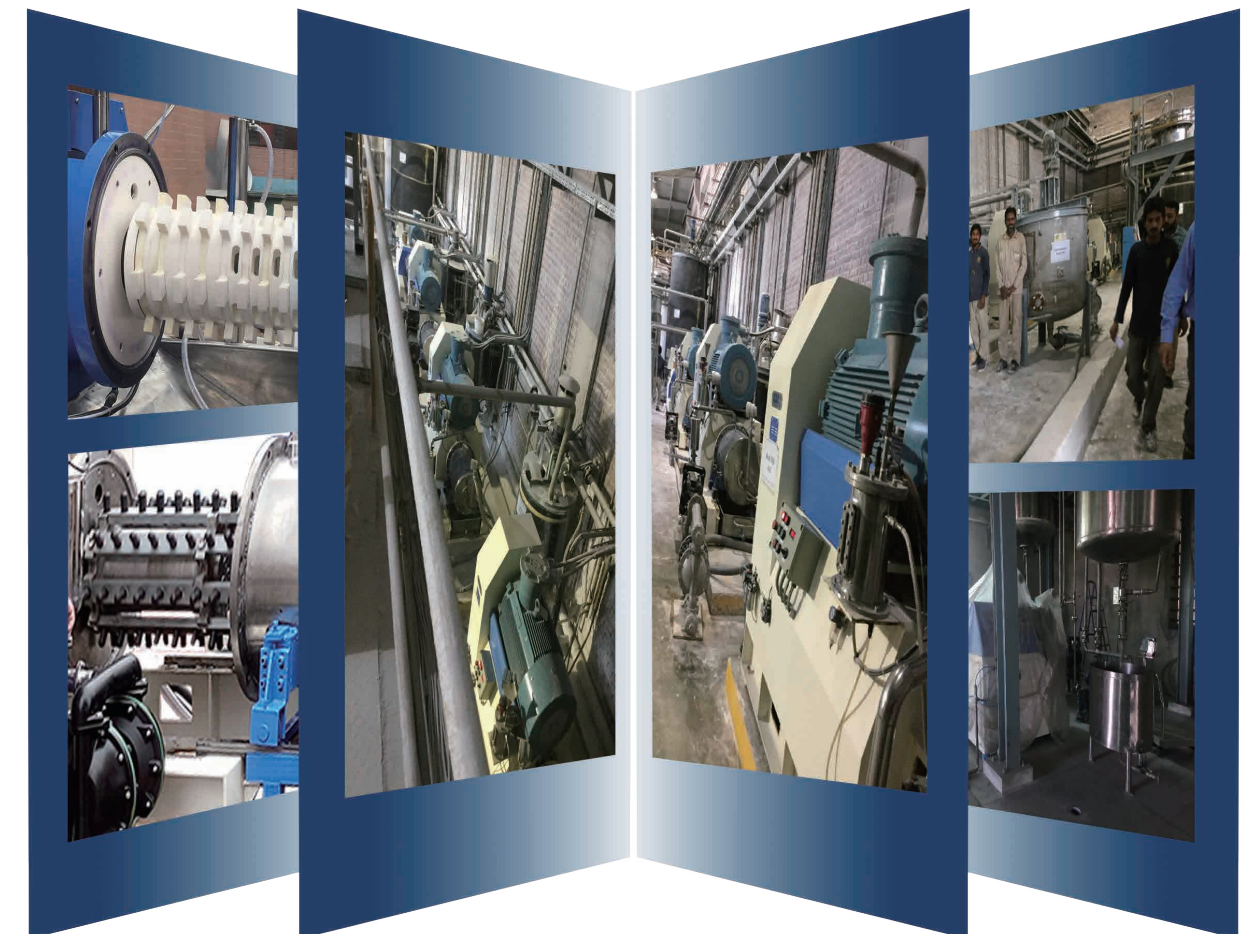
LARGE-FLOW HORIZONTAL BEAD MILL

完美的国际先进造型，人性化的操作体验，诠释着砂磨机的技术突破。超大流量砂磨机针对超大规模产能要求而设计，易勒公司在钛白粉、碳酸钙、高岭土、滑石粉和造纸行业等均已投入使用。

成功投产机型有100L、200L、500L、1200L。

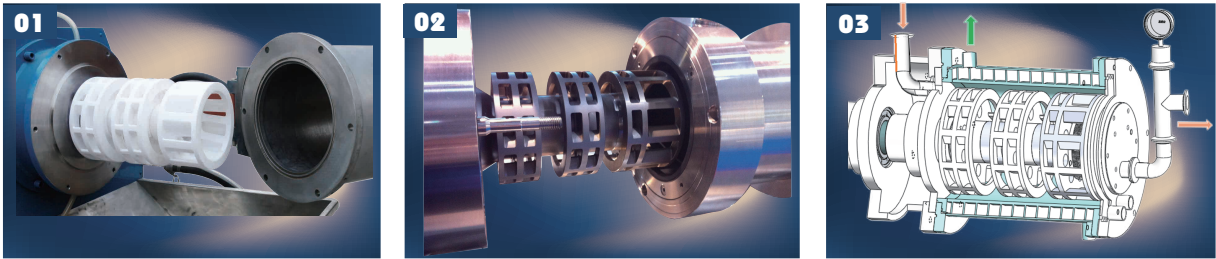
With Perfect Advanced modelling and humanized operation experience, it marks big technique breakthrough of bead mill. This model is designed for mass continuous production, It has been used in titanium dioxide, calcium carbonate, kaolin, talc and paper industry etc.

The successful models are using in 100L, 200L, 500L and 1200L.



ENW系列豪华版涡轮式超细化 纳米砂磨机

DELUXE TURBO TYPE ULTRA-FINE NANO BEAD MILL



ENW系列涡轮砂磨机适用于高效超细化工业生产用，其优势在于：

- ◆本机型为国际尖端的湿法研磨机，其加速轮的优化设计给予研磨腔内磨珠更大的动能，同时磨珠分布更均匀，细度分布更窄。
- ◆本机型的高效与超细化性能，是目前包装油墨、色浆、汽车面漆、纳米材料、电子材料等用户的理想机型。
- ◆ELE-NET0.1出料网针对超细物料要求而设计，确保大流量的同时可采用微珠研磨。
- ◆特种材质的选用（氧化锆/碳化硅/硬质合金钢等）使所有加工制造的接触部件耐磨率增强，采用内螺纹式冷却方式，有效提高研磨腔内部热量的及时散失。
- ◆独特的集装式双端面机械密封，确保轴密封的长久运转，可承受8-10公斤的压力。

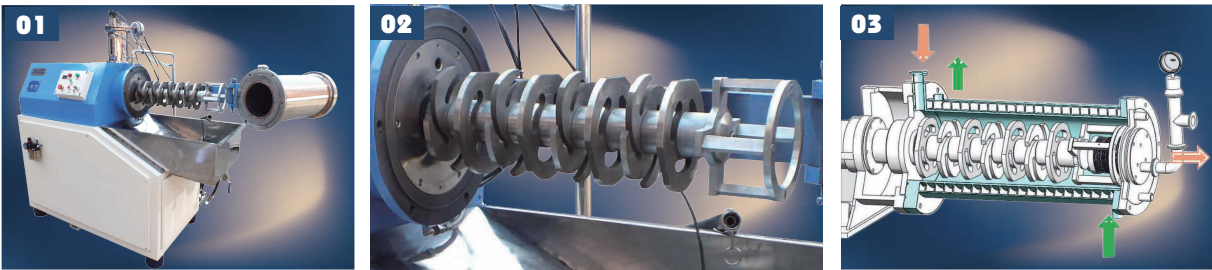
ENW Series Turbo type bead mill is suitable for High efficiency Ultra-Fine Industrial Continuous production. Its advantages are as following:

- ◆ENW series are the international top wet grinding machine, the optimization design of its accelerated wheels will pass more powerful energy to the grinding medium in chamber. Meanwhile grinding medium distribute more uniform and with more narrow fineness distribution.
- ◆Owing to its high efficiency and ultrafine performance, it is the ideal mode for users in packaging printing ink, color paste, car paint, nano materials, electronic materials, etc.
- ◆ELE-NET0.1 discharging sieve is designed for superfine material, to ensure of large flow rate, and microbeads can be used at the same time.
- ◆Selection of special material (zirconia / silicon carbide/hard alloy steel etc.) enhance wearability of all processing contact parts, It adopts internal thread type cooling way, effectively improves heat dissipation the grinding chamber.
- ◆Unique double cartridge mechanical seal, to ensure long operation of shaft seal ,maximum 8 -10 kg pressure resistance.

型号 Model	研磨腔体积 Chamber Volume (L)	主机功率 Power (kw)	转速 Speed (rpm)	流量 Flow (L/H)	外形尺寸 Dimension (mm)	整机重量 Weight (kgs)
ENW-1.0	1	4	0-3000	2-30	1200×900×1400	260
ENW-5	5	11	0-1500	30-200	1100×850×1600	400
ENW-10	10	22	0-1200	50-300	1400×1100×1750	700
ENW-15	15	37	0-1200	100-500	1550×1100×1800	1300
ENW-30	30	55	0-1000	200-1000	1850×1300×1700	2200
ENW-50	50	75	0-860	500-2000	2200×1500×1800	2800
ENW-100	100	110	0-750	>1500	3150×1500×2000	5500

EBW系列圆盘式卧式砂磨机

DISC-TYPE HORIZONTAL BEAD MILL



ELE-EBW MILL 圆盘珠磨机经受市场长期的检验，该机可满足：

- ◆满足大批量连续式生产需求。
- ◆本机采用特殊耐磨材质，使用寿命长，对物料的粘度适应性强。
- ◆容易起动、能耗比率低、研磨效率高。
- ◆可选用防爆控制器元件，满足可靠的防爆要求。
- ◆先进的电气控制系统及故障报警装置。
- ◆针对不同的物料工艺生产需求，多种送料泵可选配（如：气动隔膜泵或齿轮泵等）。

Disc-type horizontal bead mill stand long test of market., It can meet following production needs:

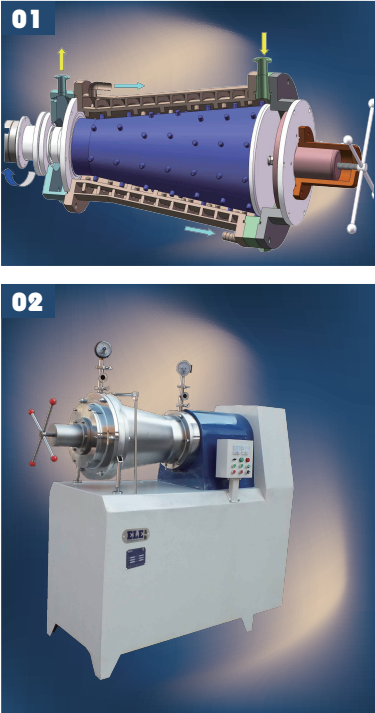
- ◆For mass continuous production.
- ◆It adopts specially wear-resisting materials, prolonging service life,And well adopted to different viscosity of materials.
- ◆Easy to start, with low energy consumption rate and high grinding efficiency.
- ◆Explosion-proof control components can be optional to meet reliable EX requirements.
- ◆Advanced electric control system and fault alarm system.
- ◆It can be equipped with different kinds of pump to match different materials(such as pneumatic diaphragm or gear pump).

型号 Model	研磨腔体积 Chamber Volume (L)	主机功率 Power (kw)	流量 Flow (L/H)	外形尺寸 Dimension (mm)	整机重量 Weight (kgs)
EBW-5	5	7.5	50-200	1200×900×1550	400
EBW-20	20	22	100-300	1850×1050×1750	900
EBW-30	30	30	200-500	2100×1100×1900	1200
EBW-50	50	45	300-800	2300×1350×1700	1800
EBW-100	100	55	500-1500	2500×1400×1800	2500
EBW-200	200	90	1000-2500	4500×1550×1900	3500
EBW-300	300	132	2000-4000	4500×1600×2300	7600
EBW-500	500	160	3000-8000	4500×1600×2500	8200
EBW-1000	1000	350	4000-15000	5500×1800×3200	12500

EZW系列高粘度锥形卧式砂磨机

HIGH VISCOSITY CONIC HORIZONTAL BEAD MILL

- ◆EZW系列锥形珠磨机是高效研磨设备中的尖端产品之一。在湿法研磨中用于流动性差粘度高的物料，锥形磨腔设计，采用端头不同的线速度形成挤压式出料。是凹版油墨、胶印油墨、丝网油墨等生产时的必备机型。
- ◆特别是在高粘度、高固含量、高细化要求的工艺中享有盛誉。内外磨筒双棒销结构，使研磨效率更高，细度分布更均匀。
- ◆进料泵采用高粘度专用齿轮泵，是易勒公司针对设备所需流量与压力而开发，为本机型的专用进料泵。
- ◆EZW series Conic-type bead mill is one of top types in high efficiency grinding equipment. In wet grinding it mainly used for materials with weak liquidity & high viscosity, with conic grinding chamber, different end linear velocity will form extrusion-type discharging. It is the essential model for gravure printing ink, offset printing ink, screen printing ink production.
- ◆It especially enjoys high reputation in the process of high viscosity, high solid content & high refining materials. With internal and external double pin structure, higher grinding efficiency and more uniform fineness distribution.
- ◆It adopts high viscosity gear pump specially, which is developed on basis of equipment required flow and pressure.

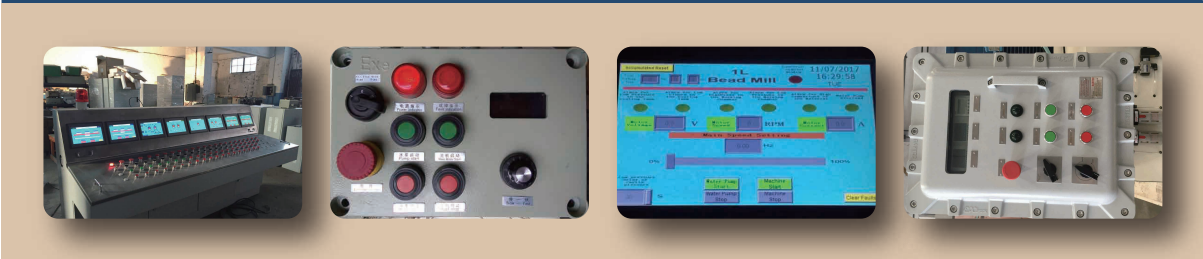


型号 Model	研磨腔体积 Chamber Volume (L)	主机功率 Power (kw)	转速 Speed (rpm)	流量 Flow (L/H)	外形尺寸 Dimension (mm)	整机重量 Weight (kgs)
EZW-14	14	37	860	60-180	1700×670×1860	1230
EZW-16	16	55	360	100-260	1960×1450×1640	2100

控制系统多样化参考

CONTROL SYSTEMS

控制盒系列 Control Panel Series



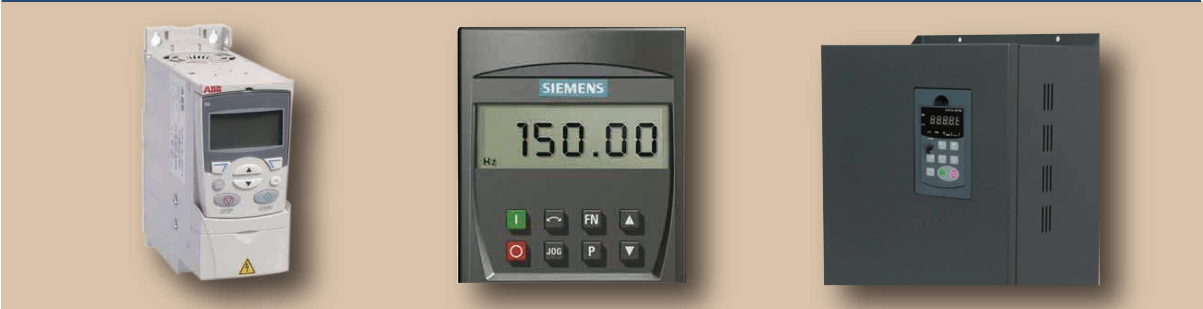
进料系统 Feeding System



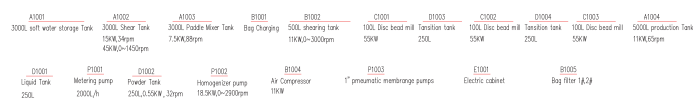
电控柜 Electric Control Cabinet



变频器系列 Frequency Converter Series



GRINDING EQUIPMENT APPLICATION CONFIGURATION



PROFESSIONAL PROCESSING TECHNICAL SUPPORT



工程项目回顾

PROJECTS PHOTOS



油漆生产线——加纳
Paint Production Line in Ghana



船舶漆生产线——天津
Marine Paint Production Line in TianJin



涂料生产线——斯洛文尼亚
Coating Production Line in Slovenia



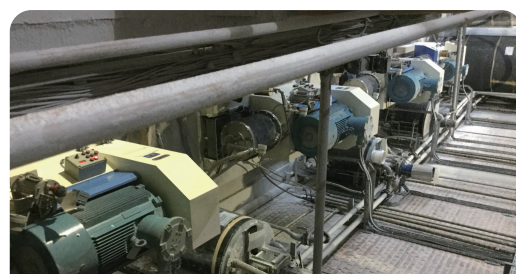
农药生产线——山东
SC Production Line in Shandong



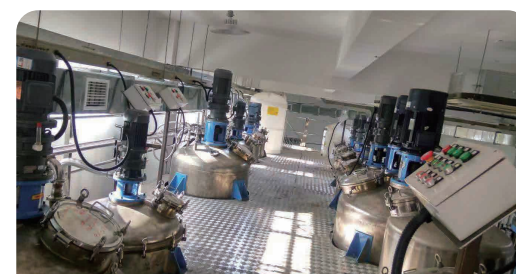
农药生产线——乌兹别克斯坦
SC+EC Production Line in Uzbekstan



油漆生产线——郑州
Paint Production Line in Zhengzhou



油墨生产线
Ink Production Line



磷酸铁锂生产线
Lithium Iron Phosphate Production Line



展会与用户回顾

EXHIBITION AND USER REVIEW

