联系我们 contact us
如果您正在寻找粉末解决方案，请与我们建立沟通，我们将竭诚为您提供解决方案。
If you are seeking for specialized powder equipment, we are your best choice.

绵阳流能粉体设备有限公司
Mianyang Liuneng Powder Equipment Co., Ltd
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请登陆网站或来电咨询，我们将会为您提供详细资料及报价。
For more details please contact us, we will provide related program and trial.
Personalized Design
To Solve The Affairs On Grinding And Classification
个性化设计/解决行业难题
化工/矿物材料/磷灰材料/精细陶瓷材料/颜料/涂料/制冷剂/高分子/橡胶材料
金属粉/金属化合物/医药/食品/保健品
我们推崇我们的理念及设备，是为更好的服务于粉体行业
Best Quality Equipment Serve Powder Industry
Company Introduction

公司介绍

Mianyang Liuneng Powder Equipment Co., Ltd. is located in Mianyang - China Science and Technology City, long-term commitments to ultra-fine grinding, precision classifying, particle morphology control and equipment Research and Development. We have a group of professional experts and experienced engineers who engage in interrelated research.

Our company respects independent innovation, the pursuit of excellence in entrepreneurship, it has taken the forefront of powder industry in jet milling, grading technology. Customized design & solve industrial problems are our purpose, thousands of production lines had been supplied to clients from all over the world. We also provide economical and high quality products depend on the specific requirement of clients. Owned high-level research team, industrialized experiment base, specific software of numerical simulation and calculation, advanced testing instrument can supply the complete solutions in many fields.
学术交流与合作
Academic Exchange & Cooperation

The company combined with Southwest University of Science and Technology & China Gas-turbine institute of technology, based on aerodynamics and gas-solid flow. There are more than twenty members including professor, researcher and doctors as the main R & D team to mainly research and develop micro powder processing in jet milling, air classifying, impact milling, particle surface process, dust removal and pneumatic transport technology. Our institute has accomplished 30 projects of National Support Plan, “863” Program, National Innovation Fund and the key research items of Science and Technology Agency since its founding. We has obtained the Sichuan Province Science and Technology Progress Award 5 times and gotten 12 national patents, we also have more than 200 academic dissertations published in both domestic and overseas academic journals.
科技成
Scientific and Technical Achievement

TECHNICAL ACHIEVEMENT

先后承担或完成了各类项目30余项，如：国家科技支撑计划“燃煤电厂锅炉高温高效利用技术”、“绿色制造关键技术与装备项目”；863计划“高效高活性超细粉制备及应用”；国家重大专项“利用工业余热余能低成本制备超细粉和粉体的设备开发与应用”；“高性能、低成本的稀释性粘液技术及系列设备”；四川省科技厅“高效脱硫技术研究”；“超微粉体设备自动化的设计研究”；“高性能、高效率制备超细粒料的粘合剂技术研究”；“高性能、高效率制备超细粉体的技术研究”等。

在“ES&T”、“Powder Technology”《四川大学学报》、《物理化学工程》、《安全与环境科学》、《化工进展》、《中国粉体技术》等期刊发表相关论文300余篇，申请并获授权发明专利12项，其中就“超细粉体及其设备的制备与应用”等获得省部级奖5项。


— 8 —
Powder Inspection Center

The company has full-scale, advanced technology and equipment powder processing test center, includes laser Particle Size Analyzer, electro microscopy, etc., and our product is customized to meet user’s requirements of different particle size. Pioneering the use of professional Hydrodynamics software FLUENT to simulate and analyse the whole flow field of jet mill, which can simulate the gas-solid flow field of jet mill, analyse the parameter of grinding and classifying and flow. All of these offer the conditions for the use’s specific requirement design.
主要加工及检测设备
Main Processing and Precision Testing Equipments

公司拥有完善的加工检测设备及手段，配备有各类型车床、铣床、磨床、加工中心、激光切割机等大型加工设备。拥有高精度动平衡仪、三坐标测量仪、三轴影像仪、探伤仪等检测设备，并严格按照质量管理系统标准操作，力求为用户提供最优的设备和服务。

Owned perfect processing testing equipments, equip various kinds of lathes and high precision inspecting equipments, strictly according to the quality management system standard operation, and strive to provide users with the best equipment and services.

海克斯基探索者7105型三坐标测量仪
Three Coordinate Measuring Instrument
EF-2010型全自动三轴影像测量仪
Full-automatic Three Axis Image Measuring Instrument
UT-350型便携式超声波探伤仪
Portable Digital Ultrasonic Flaw Detector
Lsr200表面粗糙度测量仪
The Surface Roughness Measuring Instrument
Handyscan 3D手持式扫描及测量系统
3d Handheld Scanning And Measurement System
3. Non-metal ores: Coarse whiting, light calcium, calcium oxide, kaolin, barite, mica, quartz, talc, wollastonite, bentonite, potassium feldspar, andalusite, brucite, montmorillonite, graphite, garnet, olivomite, bauxite, petroleum coke, coal, magnesite stone, perlite, attapulgite, spinel, tourmaline, medical stone, etc.

4. Pharmaceutical and food: Traditional Chinese medicine (TCM): angelica, green tea, and west shawl, salvia miltiorrhiza, ganoderma lucidum spore and cordyceps sinensis, myrobolan, notoginseng, aconitum, ganoderma powder, konjac powder, notoginseng, xianggu mushroom, ginseng, sheep placenta, pine pollen, bee pollen, jacket, pu'er, licorice powder, jujube, Chinese wolfberry, basmati pear, deer bone powder, ginkgo ginkgo, etc. Western medicine: methenamine, isopuspon, theophylline, helo it azole, vitamin C, black cohosh, carbamazepine, wine chamfer, nim horizon, turtle powder, fenolfrate, acyclovir, albendazole, nim horizon, beauty Luno Xiang, fenofibrate, amoxicillin, indomethacin, arnica, acid, flapping in ketone fluoquinone, heart rate, flat, hydroxyl fluorin food: food, size difference, coral calcium powder, bone meal, konjac, starch, cellulose, etc.

5. Pesticides/herbicides: fungicides, pesticides and wettability powder, mildew antibacterial agent, pyrazole insect flies, organism amidine, catheandom, cinnarimazole, probenazole, etc.

6. Battery material: cobalt acid lithium, manganese acid lithium, lithium iron phosphate, nickel and cobalt acid lithium lithium cobalt, nickel manganese acid lithium, lithium iron phosphate, manganese dioxide. Lithium carbonate, cobalt oxide, lithium hydroxide, lithium hydroxide, single water of ferrous oxalate, graphite (spherical, scales), etc.

7. Super hard material: silicon carbide (black, green), boron carbide, diamond white corundum, zircon sand, zirconia, rare earth polishing materials, tungsten carbide, silicon nitride, chromium carbide, chromium oxide, corundum, chromium corundum, grinding wheel, neodymium oxide, natural colored sand, etc.

8. Metal powder: aluminum powder, copper powder, zinc powder, iron powder, tin powder, cobalt powder, nickel powder, tantalum, niobium powder, silver powder, stainless steel powder, copper tin lead powder, copper powder, copper, iron powder, molybdenum iron powder, lead, tin alloy iron, copper, iron powder, etc.

9. Ceramic building materials: Ultralight cement, water, slag, fly ash, bituminous, gypsum, slag, quick line, silica tume, glass powder, etc.

10. Other materials: Fluorescent pigments, iron oxide red, chrome oxide green, phthalocyanine cobalt blue, zinc oxide, lithopone, benzidine orange, toluidine red, vermilion, mica titanium pearl pigment, dyes, fluorescent whitening agent, talc, clay, electronic waste, film skin, moss, garbage, soap, wax, etc.
Project Case

Thousands of equipments have been supplied to customers from all over the world in many fields such as chemicals, food & pharmaceuticals, new materials, new energy etc.
Working Principle: LNJ Jet Mill is a device as using multiple nozzles to form sonic speed airflow to perform superfine pulverizing. The ground materials will be brought to high-efficient turbine classifier, the coarser particles will be swirled back to grinding chamber for further grinding.

LNJ Jet Mill is a superfine grinding equipment based on the theoretical research and numerical simulation, combined domestic and foreign advanced technology.

Perfect structure and flow field design, greatly improving the high-speed airflow and classifier efficiency.

Customized design to solve different affairs.

Feature:
1. Low energy consumption
2. Materials collision each other without contamination, effective for Mohs 1-10 hard material
3. Fully automatic control, easy to operate.
4. Omnisical negative pressure operation, no contamination

<table>
<thead>
<tr>
<th>Equipment Model</th>
<th>Air Flow (m³/min)</th>
<th>Max Feed Size (mm)</th>
<th>Product Size (mm)</th>
<th>Capacity (kg/h)</th>
<th>Power (kW)</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNJ-0A</td>
<td>1</td>
<td>&lt;3</td>
<td>1-75</td>
<td>0.2-0.85</td>
<td>5.9</td>
</tr>
<tr>
<td>LNJ-15A</td>
<td>2</td>
<td>&lt;3</td>
<td>1-75</td>
<td>5-10</td>
<td>21.7</td>
</tr>
<tr>
<td>LNJ-30A</td>
<td>2</td>
<td>&lt;3</td>
<td>1-75</td>
<td>20-30</td>
<td>41.3</td>
</tr>
<tr>
<td>LNJ-60A</td>
<td>5</td>
<td>&lt;3</td>
<td>1-75</td>
<td>50-150</td>
<td>79.6</td>
</tr>
<tr>
<td>LNJ-120A</td>
<td>10</td>
<td>&lt;3</td>
<td>1-75</td>
<td>100-200</td>
<td>137.6</td>
</tr>
<tr>
<td>LNJ-240A</td>
<td>20</td>
<td>&lt;3</td>
<td>1-75</td>
<td>100-500</td>
<td>293.1</td>
</tr>
</tbody>
</table>

Note: This table lists only the basic information. Detailed specifications and performance parameters are subject to the manufacturer's specifications.
Lab Jet Mill & Classifier
实验室用小型气流磨/气流分级机

设备型号：
- LN-6A 1ml/min <1mm 2.6μm 0.2-3kg/h 9.5kW
- LN-6A-2 1ml/min <1mm 2.6μm 0.2-3kg/h 11kW
- LN-12A 2ml/min <3mm 2.6μm 10kg/h 18.7kW
- LN-12A-2 2ml/min <3mm 2.6μm 10kg/h 20.3kW
- LN-80A 0.1-100μm 0.6μm 0.5-5kg/h 2.5kW
- LN-80A-2 0.1-100μm 0.6μm 0.5-5kg/h 3.5kW
- LN-120A 0.1-100μm 0.1-100μm 5-20kg/h 4kW
- LN-120A-2 0.1-100μm 0.1-100μm 5-20kg/h 5.3kW

特点：
- 超细微粉末、高纯度粉末
- 物料相互间磨粉产品无污染
- 粉磨温度控制适用于热敏性物料的加工
- 设备结构小巧，安装方便
- 自动化控制器使用方便
- 适用范围广，可加工莫氏硬度1-10的物料
- 可根据不同物料特性及要求选择相应的粒径与粉尘
- 针对高纯度、高氧化的物料可设计为惰性气体保护系统

Lab Use Jet Mill is special designed for universes and research institutions, small dimension, compact structure, easy to disassemble and clean.
Superfine grinding and precision classifying
Material collision each other lead to breaking without contamination
Effective for heat-sensitive material
Easy to disassemble and clean
Automatic control system
Effective for Mohs 1-10 hard material
Personalized design to solve the affairs on grinding and classification
The specific requirement of protection system for Inert Gas
新型节能型气流磨

Nano Steam Jet Mill
纳米蒸汽动能磨

节能型气流磨是我公司根据直热气流旋风气流能转换开发的一种新型粉碎设备，其充分利用了流体的压力能和内能，使物料的高温粉碎，相对一般的气流粉碎设备，可实现单位节能30%左右。

1. 高能低耗
   • 采用高压气源，避免了因气源压力低而影响粉碎性能，获得更高的压力，采用中间冷却提高压缩比，提高能量利用效率，一级压缩机能量利用率78%，二级压缩为58%。
   • 节能型气流磨采用二级压缩机排出的高温压缩气体用于粉碎，可实现高压气流能被二级压缩机相等的粉碎效率，不但利用了气体的温度能量，而且避免了压缩机冷凝液造成的能量损耗，节能优势明显。
2. 适用于高能耗物
   对于有微粉膨胀作用的物料粉碎时，由于高温的热胀冷缩效应，利于对物料的粉碎与剔除，如云母、硅灰石、滑石等。
3. 节省后利于物料干磨。

Energy-saving Jet Mill is a newly developed grinding equipment based on the fluid energy conversion character in adiabatic flow process. It makes the most of fluid pressure and internal energy to grind material with a high efficient and saves about 30% energy than other ordinary grinding equipment.

1. High energy utilization
   • The air compressor used for ordinary jet mill prevent operation fault caused by high exhaust temperature. A higher pressure is got through intercooler for multistage compression; the more stages it is, the lower the energy utilization rate is. For instance, the energy utilization in the primary compression is 78% and 58% when it’s in secondary compressor.
   • Energy-saving Jet Mill adopts primary high exhaust temperature compressed gas to grind material and the grinding force is the same with secondary compressor. Using the energy of air at high temperature prevents energy loss in cold and heat offset during intercooling in compressor.

2. Helpful in material grinding
   Materials with joints and fissures weak effect plane such as : falc, wollastonite, etc. are easily ground due to thermal expansion effect.

3. Materials are dried after grinding.

<table>
<thead>
<tr>
<th>设备类型</th>
<th>空气流量（m³/min）</th>
<th>空气压力（Pa）</th>
<th>粉碎粒度（mm）</th>
<th>粉碎能力（kg/h）</th>
<th>适用范围</th>
<th>研磨功率（kW）</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNSE-60A</td>
<td>60</td>
<td>0.3-4.0MPa</td>
<td>≤3mm</td>
<td>2-1000</td>
<td>100-100kg/h</td>
<td>55kw</td>
</tr>
<tr>
<td>LNSE-120A</td>
<td>120</td>
<td>0.3-4.0MPa</td>
<td>≤3mm</td>
<td>2-1000</td>
<td>200-2000kg/h</td>
<td>110kw</td>
</tr>
<tr>
<td>LNSE-240A</td>
<td>240</td>
<td>0.3-4.0MPa</td>
<td>≤3mm</td>
<td>2-1000</td>
<td>300-2000kg/h</td>
<td>250kw</td>
</tr>
</tbody>
</table>

注：表中数据为设计条件下的参数，实际使用时应根据工艺条件调整。
LNI Impact Mill
分级式冲击磨

工作原理：LNI分级式冲击磨是一种利用圆柱体上高速旋转的滚头对物料的强力冲击，以及滚头与筛面之间挤压研磨，实现对物料的破碎粉碎。粉碎后物料经分级区涡轮分级，达到粒度要求的细粉分开，不满足粒度要求的颗粒返回继续粉碎。

我公司LNI分级式冲击磨可针对不同的物料特性（如粘附性、纤维状等），在合理的流程下，对滚头、结构、分级机等结构进行优化设计，设备具有粉碎效率高，能耗低等优点。
- 精细度高，设备精密，内置高效涡轮气流分级机，粒度分布窄，分级精度高，无大颗粒，
- 产品粒度可在100-250目间任意调控；
- 低噪音设计，低震动，低能耗，（可对进入粉碎腔的气流进行冷热交换以保证粉碎腔温度小于40℃）；适用于热敏感性物料的加工，能有效保证物料的自然属性。
- 粉碎磨头/风扇等部位采用合金材料，耐磨性好。
- 开发有低硬度冲击，低滚冲击以及高温冲击等，大大增加了冲击磨加工物料范围。

Working Principle: LNI Grade Impact Mill is a high speed impact mill to perform ultrafine milling by using the high-speed rotating hammer to grind materials. The ground materials will be brought to high-efficient turbine classifier, the coarser particles will be swirled back to grinding chamber for further grinding.

LNI Grade Impact Mill is depending on materials’ characters (such as adhesion, fibrous etc) optimizes hammer, gear ring, classifier. It is the best solution of various powder industries with high efficiency milling, lower energy consumption.

1. High fineness, narrow particle size distribution without oversize, and particle size can be controlled between 100–1500 mesh.
2. Application with air-cooled design with large air flow makes it possible to process heat-sensitive materials in low temperature condition.
3. Grinding hammer/gear ring is made from super-hard alloy, better wear-resisting performance.
4. Development of wet, low and high temperature impact mill, greatly increased processing fields.

<table>
<thead>
<tr>
<th>型号/规格 Model</th>
<th>磨机功耗 kW</th>
<th>最大入料粒度 Max Feed Size</th>
<th>产品粒度范围 Product Size</th>
<th>生产能力 Capacity</th>
<th>驱动功率 power</th>
<th>备注 Remarks</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNI-120A</td>
<td>60</td>
<td>≤1mm</td>
<td>≤1-100μm</td>
<td>1-10000g/h</td>
<td>400</td>
<td>生产能力高耐磨性能好，线粉碎能力强，广泛应用于低硬度物料。</td>
</tr>
<tr>
<td>LNI-160A</td>
<td>70</td>
<td>≤1mm</td>
<td>≤1-100μm</td>
<td>1-10000g/h</td>
<td>500</td>
<td>生产能力高耐磨性能好，线粉碎能力强，广泛应用于低硬度物料。</td>
</tr>
<tr>
<td>LNI-200A</td>
<td>80</td>
<td>≤1mm</td>
<td>≤1-100μm</td>
<td>1-10000g/h</td>
<td>600</td>
<td>生产能力高耐磨性能好，线粉碎能力强，广泛应用于低硬度物料。</td>
</tr>
<tr>
<td>LNI-250A</td>
<td>100</td>
<td>≤1mm</td>
<td>≤1-100μm</td>
<td>1-10000g/h</td>
<td>800</td>
<td>生产能力高耐磨性能好，线粉碎能力强，广泛应用于低硬度物料。</td>
</tr>
</tbody>
</table>
LNJP New Jet Mill and Classifier is a newly grinding classifier, patent product for coarser particle, specific size requirement, and high yield material, with advantages of high output, lower energy consumption, particle size concentrating distribution, it is widely used glass beads, metallic silicon powder, graphite powder etc.

1. Fluid dynamics software is developed by our independent R&D, calculated the perfect flow and ideal pressure distribution, combined the advantages of fluid dynamics technology and crushing strength control technology, greatly improve grinding efficiency and reducing energy consumption.

2. High capacity: compare with other grinding machine, the output of this equipment has improved 8-15 percentage.

3. Low energy consumption: Low energy consumption power, saving 40% over the equipments.

4. Wear-resistance, secondary air entry keeps the cleaning flow stability, greatly reduce the wear.

Application
Apply in requirement for the specific granularity and high-yield material.
Glass beads, metallic silicon, graphite etc..

<table>
<thead>
<tr>
<th>设备型号</th>
<th>Model</th>
<th>最大粒径（mm）</th>
<th>Max Feed Size</th>
<th>产品粒径范围（mm）</th>
<th>Product Size</th>
<th>生产能力（t/h）</th>
<th>Capacity</th>
<th>研磨率（%）</th>
<th>Pass rate</th>
<th>研磨功率（kW）</th>
<th>power</th>
<th>备注</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNJP-120A</td>
<td>≤2mm</td>
<td>40-32目</td>
<td>100-500kg/h</td>
<td>80-95%</td>
<td>50-75kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LNJP-240A</td>
<td>≤3mm</td>
<td>40-32目</td>
<td>500-1000kg/h</td>
<td>80-95%</td>
<td>78-95kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LNJP-480A</td>
<td>≤5mm</td>
<td>40-32目</td>
<td>800-2000kg/h</td>
<td>80-95%</td>
<td>98-110kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>LNJP-960A</td>
<td>≤6mm</td>
<td>40-32目</td>
<td>800-2000kg/h</td>
<td>80-95%</td>
<td>115-161kW</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

LNJP Jet Pulverizer
射流粉碎机

LNJP系列射流粉碎机是我们针对产品粒度要求，有特定粒度及要求，成品率高及高的产品而开发的一种全新射流粉碎机。该机型主要具有成品率高、能耗低、粒度均匀稳定等优势。广泛用于玻璃珠、金属硅粉、石墨粉等负极材料的生产。

- 采用我们自主研发的流体力学软件，模拟出最合适的流场，最理想的流场分布来指导设计，极大地的充分利用及粉碎强度控制技术，极大的提高了粉碎效率，降低了能耗，过粉碎小；
- 成品率高：该设备目前市场上常规的磨粉机相比，成品率提高了8-15个百分点；
- 能耗低：装机功率小、单位能耗低，比常规磨粉机低40%；
- 耐磨性好：二次风采用单独的设计，使二次风在全部循环均匀，保持系统流量均匀稳定，大大降低摩擦力。

- 应用领域

- 主要应用于有特定粒度要求的产品，成品率高及高的产品
- 典型物料有：玻璃珠、金属硅粉、石墨等。
LNJST inert gas protection system uses inert gas as media for circulation protection and classifying.
1. Materials collision each other without contamination, effective for Mohs 1-10 hard material
2. Widely used inflammable, explosive and easily oxidative material.
3. Depending on the requirements of process and material properties control the purity of inert gas, the recycling of inert gas causes little loss.
4. Controlling the oxygen content on specific requirement, it can be achieved to below 1PPM.
5. Self-equipped oxygen content detection system to reach the pressure balance and add Nitrogen automatically.
6. Optimization classification impeller structure, completely and stable flow effective for precision classifying.
7. Particle size can be adjusted between 2～44μm by original technology, the finest particle can up to submicron.
8. Collecting efficiency can be up to 99.99%; seal negative pressure operation without contamination
9. Emergency filter installed behind of dust collector to prevent powder into compressor.
10. Fully automatic PLC control, easy to operate.

LNJST Inert Gas Jet Mill Classifier
惰性气体保护气流粉碎机/分级机

LNJST系列惰性气体保护气流粉碎机是我公司针对易燃易爆、易氧化等特种物料的粉碎需求而开发的一种利用惰性气体（氮气、氢气、二氧化碳等）循环保护的湿式超微粉碎系统及分级系统。由于惰性气体保护，通常采用流式循环系统，同时在进出口采用严格气体安全的分离装置。
• 物料相互碰撞进行粉碎，可加工莫氏硬度1～10的物料，产品无粉尘污染，并可进行多种物料的混合粉碎
• 适用范围广，可根据易燃易爆、易氧化物料特性选择其相适应的惰性气体作保护气体
• 根据工艺和产品特性的要求选择惰性气体的纯度，惰性气体循环使用，损耗小
• 可根据需要控制系统的氮含量，可达到1PPM以下
• 系统内置有氧含量监测器，实现自动补氮及压力平衡
• 优化的分级叶轮结构，消能均匀稳定，叶轮压力损失小，可对物料进行精确分级
• 提供的分级流态技术，可获得高的粉碎效率和粗粒的细度分布，粗粉粒度可在2～74μm之间任意调整，最细可达亚微米级，物料损耗小
• 全封闭负压操作，粉尘自动沉降，采用进口新型高精度过滤材料，收集效率>99.99%
• 除尘器后设计有废气处理装置，以避免意外情况防止进入排放机内
• 自动化程度高，整套系统采用PLC+触摸屏自动控制系统，可实现一键式启停，操作简单方便，开可与DCS系统联接，实现远程控制

<table>
<thead>
<tr>
<th>设备型号</th>
<th>空气流量</th>
<th>最大入料粒度</th>
<th>最大出料粒度</th>
<th>生产能力</th>
<th>轴功率</th>
<th>气体种类</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNJST-10A</td>
<td>1m³/min</td>
<td>&lt;3mm</td>
<td>2-10μm</td>
<td>5-20kg/h</td>
<td>21.7kw</td>
<td>氮气</td>
</tr>
<tr>
<td>LNJST-30A</td>
<td>3m³/min</td>
<td>&lt;3mm</td>
<td>2-10μm</td>
<td>30-300kg/h</td>
<td>41.6kw</td>
<td>氮气</td>
</tr>
<tr>
<td>LNJST-50A</td>
<td>10m³/min</td>
<td>&lt;3mm</td>
<td>2-90μm</td>
<td>50-300kg/h</td>
<td>82kw</td>
<td>氮气</td>
</tr>
<tr>
<td>LNJST-100A</td>
<td>20m³/min</td>
<td>&lt;3mm</td>
<td>2-90μm</td>
<td>80-500kg/h</td>
<td>116-118kw</td>
<td>氮气</td>
</tr>
</tbody>
</table>

注：此表为参考表视物料特性，具体需要由设计工程师根据物料性质及参数而定。
LNGS Steam Jet Mill
蒸汽动能磨

Working Principle: Steam jet mill adopts high temperature mechanical technology and uses hot steam as media for high speed movement to perform materials pulverization. The finest particles are brought to collector by turbine grader, the coarser grains will be swirled back to grinding chamber, the whole production line is dry-type processing due to the steam in the system keeps overheating.

LNGS Steam Jet Mill is a new superfine pulverizing device, is our patent product. Main features:
- High efficiency grading, large capacity, lower energy consumption, unit power consumption is only 1/5~1/8 of jet mill.
- 1. High efficiency grading. The flow speed of steam jet mill is up to 1000m/s, conventional air jet mill is 500m/s.
- 2. Lower energy consumption. Steam jet mill uses superheated steam as kinetic energy, the rate of energy usage is up to 90%.
- 3. Large capacity. The dimension of jet mill depends on the size of steam source device, the biggest air compressor is 200~3000m³/min currently, its hard to large scale, however the industrial boiler is more popularization, it’s easy to meet the requirements of large steam jet mill, greatly improving the single equipment capacity.
- 4. Grinding in closed system, to avoid contact with air. It has protect blast, antistatic, anti-oxidation.
- 5. The product has well dispersion, and simultaneous dry function in processing.
- 6. Due to reduce the processing cost. greatly expand the scope of processing, this equipment can be used for high added value non-heating sensitive material and non-metallic mineral
LNJM Pharmaceuticals & Food Superfine Jet Mill
医药/食品用超微粉碎机

LNJM系列气流粉碎机是我公司根据制药及食品行业的标准来设计的一种专用机型，该系列产品符合GMP和FDA质量标准，并可与其他设备无缝对接。该设备主要具有以下特点：

- 该设备具有自动进料系统，可实现连续生产。
- 气流粉碎过程在常温下进行，避免了物料的损坏。
- 设备的噪音水平低，符合环保要求。
- 设备的维护简单，操作方便。
- 设备的生产能力高，可满足大规模生产的需求。

LNJM Series Pharmaceuticals & Food Dedicated Jet Mill Is certificated by GMP and FDA.
The ultrasonic airflow makes the materials to collide and
abrade each other, that ensures the purity without
contamination

- Cooling flow keeps the temperature below 10℃ (Normal
  is 10℃) during grinding, make sure the products’
  natural character
- The equipment is made of stainless steel, Surface,
  Smoothness can achieve Ra = 0.4 um, and easy to clean
- The outer face end seal technology(Unique technology), ensure obtain the strict particle size
distribution and the precision of classification
- Combined excellent dynamic balance and high quality imported bearing, ensures the stability
  of product under high speed operation
- Collector filter material is certificated by GMP & FDA, collecting efficiency can be up to 99.99%;
  seal negative pressure operation without contamination
- PLC automatic control system can connect with DCS, easy operation
- Easy to dismantle and clean, disassembling part adopts quick bayonet connection, main parts
  have assisted opening device, and can customized design CIP/SIP online cleaning system
- Assistance for URS & 3Q certification

<table>
<thead>
<tr>
<th>设备型号</th>
<th>载气量</th>
<th>最大入料粒度</th>
<th>产品粒度范围</th>
<th>生产能力</th>
<th>能耗功率</th>
</tr>
</thead>
<tbody>
<tr>
<td>LNJM-6A</td>
<td>1m³/min</td>
<td>&lt;2mm</td>
<td>1-75μm</td>
<td>0.2-2.3kg/h</td>
<td>9.5kw</td>
</tr>
<tr>
<td>LNJM-10A</td>
<td>1m³/min</td>
<td>&lt;3mm</td>
<td>0.75-75μm</td>
<td>3-15kg/h</td>
<td>23.7kw</td>
</tr>
<tr>
<td>LNJM-25A</td>
<td>0.5m³/min</td>
<td>&lt;3mm</td>
<td>0.75-75μm</td>
<td>10-80kg/h</td>
<td>47.3kw</td>
</tr>
<tr>
<td>LNJM-60A</td>
<td>1m³/min</td>
<td>&lt;3mm</td>
<td>1-75μm</td>
<td>30-150kg/h</td>
<td>75kw</td>
</tr>
<tr>
<td>LNJM-120A</td>
<td>2m³/min</td>
<td>&lt;3mm</td>
<td>1-75μm</td>
<td>50-200kg/h</td>
<td>137kw</td>
</tr>
</tbody>
</table>
LNC Air Classifier
精密气流分级机

工作原理：根据固体颗粒大小、密度不同在气流状态下
进行分级。利用离心力和气流作用的离心力大小不同，
重颗粒所受到的离心力大，轻颗粒所受力小，至分级机
后自然分落；小或轻的颗粒颗粒受力小，颗粒受气流
进入分级机，实现对物料的分级。

主要特点：
• 采用离心力法实现物料分级，计算出最合适的离心
  力，选取合适的离心力大小进行分离，实现对物料
  的精确分级；
• 转鼓设计的均匀分布，使气流分布均匀，确保分
  级效果均匀；
• 优化设备结构，降低设备噪声，降低设备噪音，
  提高设备使用寿命；

工作原理：

Working principle: Depending on particles' size and density under dry-type for grading, it
uses the centrifugal force produced by the fast rotation of grading rotator together with
flow movement to perform classifying. The coarser particles above the grading range is
driven by centrifugal force will be swirled down along the container wall, and finer grains
bring to the grading zone.

1. Fluid dynamics software is developed by our independent R&D, calculated the perfect flow
and ideal pressure distribution, is used for high efficiency grading, the grading rate is up to
70%~93%.

2. Dispersion device and turbulent device ensure high efficiency grading.

3. Aggregated powder is resolved by optimization structure.

4. The outer face end seal technology (unique technology) ensures no coarser particles leak.

5. Secondary air entry keeps the cleaning flow stability, greatly reduce the wear

6. Omnisai negative pressure operation, no contamination.
LNBG Bag Filter
除尘器

公司提供各类型的袋式除尘器、滤筒除尘器、塑料橡胶除尘器、移动式除尘器等，并可根据处理粉尘的特点和使用环境设计不同结构及用途的除尘装置。

公司自主研发，开发高效除尘器喷吹结构，在喷吹清灰时，能将除尘器滤袋/滤筒沿长度方向上产生均匀的脉冲力，防止了滤袋/滤筒在长度方向上的脉冲力不同带来的滤袋/滤筒局部失效或过度清灰，保证了滤袋/滤筒长期稳定的运行，同时提高了滤袋/滤筒的使用寿命。

- 适用于各种超细粉体的收集及生产过程中的粉尘处理，尤其适用于超细粉体的收集；
- 可根据处理粉尘的特性和使用环境，设计不同的结构及滤材的选择（如：高温、易燃易爆粉体、高静电粉尘、高温高粘附性粉尘、腐蚀性粉尘）；
- 除尘效率可达99.99%以上，过滤后气体的含尘浓度<10mg/m³。

We supply various kinds of collectors such as bag dust collector, filter cartridge dust collector, sinter board dust collector/removable dust collector, it can design different collector device base on the raw materials’ characters.

The jet structure of high efficiency dust collector is developed by our independent R&D, it can produce well-distributed force along the length of filter during dust cleaning, which prevent partly efficacy loss and over-cleaning caused by different force along the length. Ensure long life time working stability. Apply for all kinds of superfine powder collection.

Can design different collector device and filter material base on the raw materials’ characters (e.g. high temperature, flammable and explosive powder, electrostatic powder, high humidity and adhesive powder, corrosive powder).

Dust collection efficiency can be up to 99.99%, dust concentration of filtered gas <10mg/m³.

LNCDO高效旋风除尘器 Cyclone Dust Collector

根据物料特性，我们提供各种型号的旋风除尘器，可与各类型喷粉机对接使用，也可用于气力输送系统中的物料收集。

特点：
- 除尘（或收集）效率高，运行阻力低；
- 系统性能稳定，气密性好；
- 干法收集，有利于产品回收；
- 结构简单，占地面积小。

We supply many types of cyclone dust collector depend on materials’character, the collector can be used for various pulverizers and material collection in pneumatic conveying system as well.
LNP Shaping Mill
整形机

颗粒整形机是公司根据粉体物料性能的不同，自主研发的一种粉体物料制粒设备。可根据物料性能要求，对物料进行整形及粒度控制。

公司现开发有气流整形机和机械整形机两大类产品，用于不同物料特性及要求的整形，现已经在石墨、金属粉、钢化铝、云母、硅等粉体物料的整形中得到了很好的应用。

Particle surface shaper is a controlling equipment originally developed according to different particle surface requests, such as spherical, multi-prismatic shape, high aspect ratio, slenderness ratio, etc. to control the particle morphology.

We now have developed Jet Mill shaper and Impact Mill shaper to meet different material shaping requirements with various properties and have a good application in shaping graphite, diamond, carbon, carbide, Mica, wollastonite, etc.

<table>
<thead>
<tr>
<th>序号</th>
<th>粉体类型</th>
<th>形状描述</th>
<th>特性</th>
<th>应用领域</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>石墨</td>
<td>球形</td>
<td>高纯度</td>
<td>电池工业</td>
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<tr>
<td>2</td>
<td>金属粉</td>
<td>多边形</td>
<td>高密度</td>
<td>建筑材料</td>
</tr>
<tr>
<td>3</td>
<td>钢化铝</td>
<td>矩形</td>
<td>高硬度</td>
<td>玻璃加工</td>
</tr>
<tr>
<td>4</td>
<td>云母</td>
<td>纺锤形</td>
<td>高温</td>
<td>陶瓷工业</td>
</tr>
<tr>
<td>5</td>
<td>硅粉</td>
<td>钢化形</td>
<td>高纯度</td>
<td>电子材料</td>
</tr>
</tbody>
</table>

Technique and service
技术与服务

- 根据用户需求提供设备选型，负责系统的工艺流程设计，为用户提供设备布置及厂房设计咨询；
- 安排技术人员现场指导安装/调试，负责人员培训；
- 建立用户设备运行及维护的档案，为用户提供高水平的专家咨询和检测诊断，确保用户设备和加工系统正常、有效的运行；
- 对设备提供免费的维修咨询及技术升级服务，并长期提供备品备件供应；
- 设备质保期为一年，以调试合格验收之日起计。

Customized selection and flowsheet design, provide equipment layout and factory consultation.

Sending technical engineer to guide the installation, commissioning and training service. Supply expert consultation and detection ensure the equipment operation normally, and get feedback from customers regularly.

Long-term technology support for upgrading and solving difficulties.

one year of warranty period.