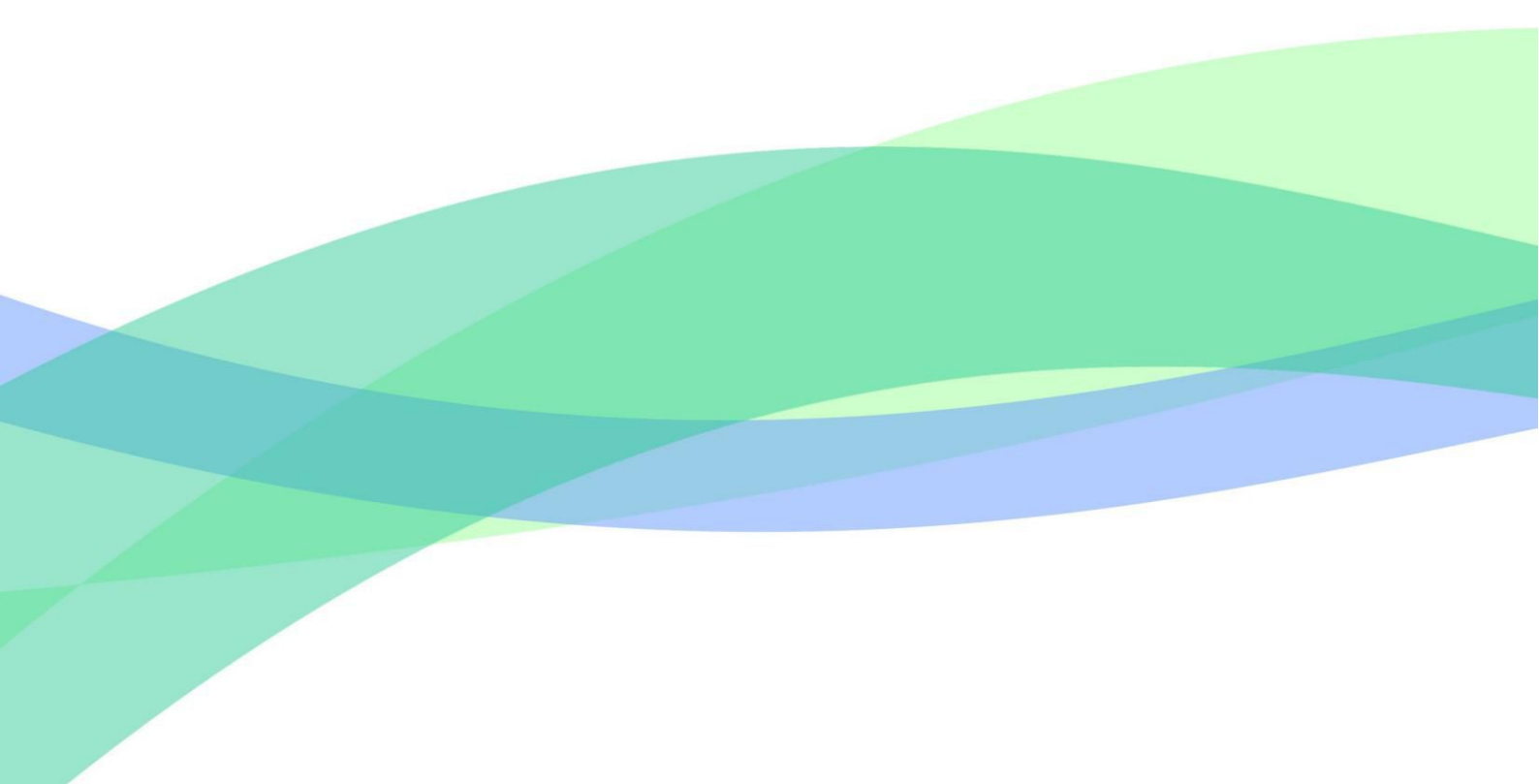


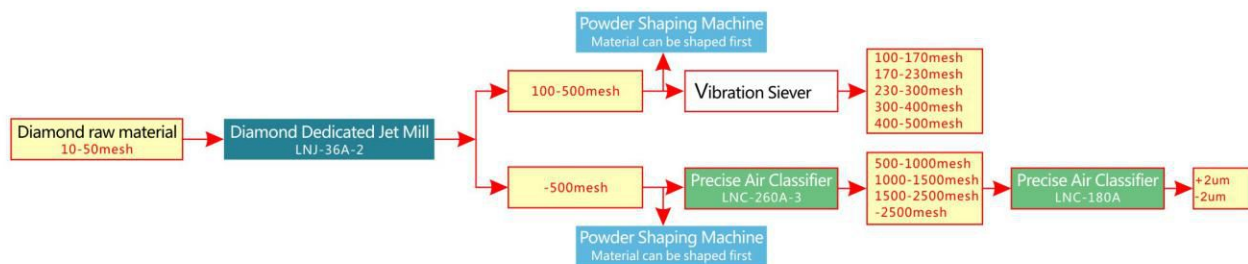


DIAMOND Micron Powder

We Listen Attentively To Our Customers?

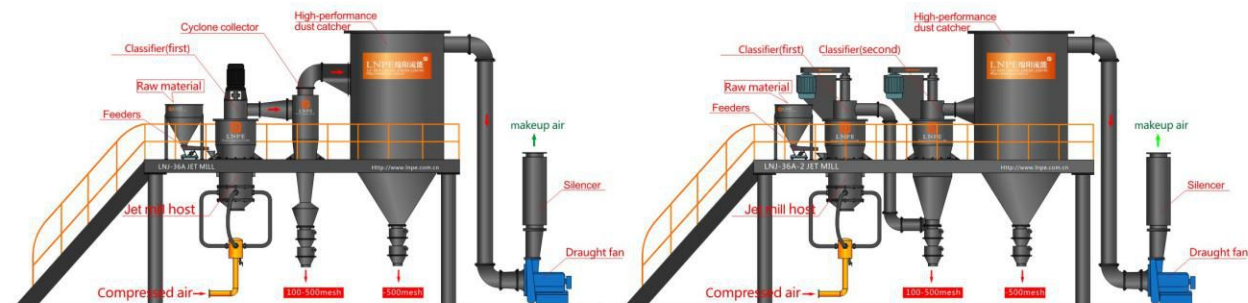
On requests for diamond **Grinding**, **Classifying** and **Shaping**, we had a large number of application experiences with international unprecedented science technology, which leads to a such high level of micron diamond powder processing technology, both in production capacity and quality.





GRINDING --Diamond Dedicated Jet Mill

Diamond Dedicated Jet Mill is specially designed based on its characteristics. We can grind 10-50 mesh diamond powder into 100-500 mesh fine powder and make sure a good granularity quantity.



Introduction And Specification:

It is a type of professional Jet Mill developed for diamond grinding and classifying. On the basis of general Jet Mill and physical properties, adapted to your application (less superfine powder, higher product rate).

It makes a breakthrough in particle acceleration technology and a great improvement of grinding efficiency due to our Hydromechanics Numerical Simulation Software, saving energy and reducing over-ground fineness;

Particle to particle collision each other leads to breaking that reduces the wear. Metal contamination is minimal.

Therefore, saving high-cost acid cleaning;

With total dry processing method, you achieve high throughput rates and high quality with better particle size distribution;

External End Face Sealing Technology (patent for invention) achieves narrow particle size distribution without oversized particles;

Capable of shaping particles;

Multi-use of one machine due to alterable and compact structure and this machine can be used as classifier alone;

The suitable flow field design and anti-wear treatment for all quick-wear parts greatly decrease tool wear and prolong its service life;

Fully enclosed way of discharging reduces the loss of materials;

Totally sealed negative pressure operation, without dust pollution;

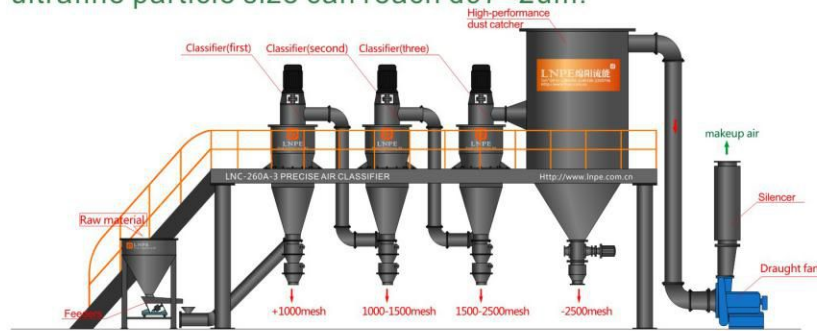
Easy handling and low noise emission ($\leq 70\text{dBA}$).

Model	Air Flow	Max Feed Size	Product Size	capacity	power	Remarks
LNJ-6A	1m ³ /min	-40#	0-60um	0.5-3kg/h	9.5kw	For experimental and small-lot production
NJ-18A	3m ³ /min	-40#	0-60um	8-15kg/h	23.7kw	
LNJ-18A-2	3m ³ /min	-40#	0-60um	8-15kg/h	33.9kw	Eg: 100-500mesh,-500mesh
LNJ-36A	6m ³ /min	-40#	0-60um	40-60kg/h	47.5kw	
LNJ-36A-2	6m ³ /min	-40#	0-60um	40-60kg/h	58kw	Eg: 100-500mesh,-500mesh
LNJ-36A-3	6m ³ /min	-40#	0-60um	40-60kg/h	61kw	Eg: 100-500mesh,500-1000mesh,-1000mesh



CLASSIFYING --Precise Air Classifier

Our machine mainly classifies -500mesh fine powder into different particle size and the ultrafine particle size can reach $d_{97} < 2\mu\text{m}$.



The design of this equipment is guided with the ideal pressure distribution and the most appropriate flow field which are calculated by our Hydromechanics Numerical Similitude Software. The optimized classifying wheel structure and the stable flow field lead to small loss of pressure on impeller; therefore it can classify materials with high-efficiency of over 90%.

The optimized structure enables it to disperse agglomerate ultrafine powder and polymers;

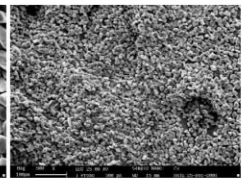
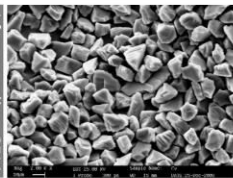
Grading blades uses one-step molding technology, specialised equalization treatment through aviation testing platform to make machine work more stable and leaves little vibration.

Quick-wearing spare parts are made from wear-resistant ceramic or polyurethane (PU) to have a good wear-resistant treatment.

The increased filter area of dust collector reduces the impact of pulse-dust-cleaning flow on system flow rate, which makes the equipment operate more stably and the collecting efficiency can reach over 99.9%.

A high degree of automation operation under fully sealed negative pressure thus ensures a clean environment and no dust pollution.

Model	Max Feed Size	Product Size	capacity	power	Remarks
LNC-260A-3	-500目	+1000目/1000-1500/1500-2500/-2500	50-80kg/h	40kw	Particle size can be adjusted
LNC-180A-2	-10um	-2um, 2-5um, 5-10um	1-5kg/h	7kw	Particle size can be adjusted
LNC-180A	-10um	-2um, 2-10um	1-5kg/h	4.5kw	Particle size can be adjusted



SHAPING AND SPHEROIDIZING PROCESS --Jet Shaping Mill

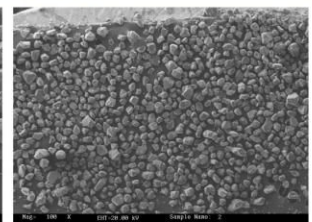
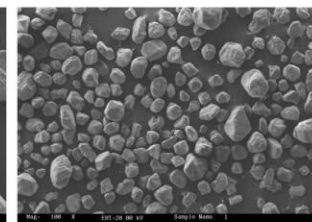
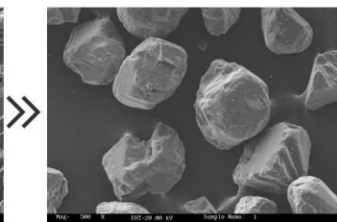
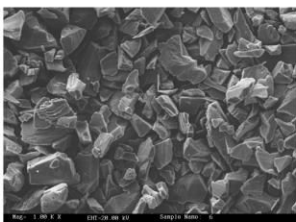
By removing the grain angularity with our specialized Powder Jet Shaping Mill, spherical particle can be easily achieved.

Diamond Dedicated Jet Shaping Mill is designed according to the physical property and requirements of powder shape. Which is a professional powder spheroidizing process equipment with following characteristics:

With a wide range of application, it can achieve the spheroidizing process for -200mesh diamond powder as well as the break and glomero-cryst of original raw diamond material.

Shaping period can be adjusted according to the powder shape which can help to make it better.

Professional structure design ensures every particles are fully spheroidizing. PLC auto control system, operate is easy and no dust pollution.



Before shaping SEM

After shaping SEM

➤ Let's get started !

Please contact us, we will provide you with a detailed program and experimental

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