

Light Blue Dolphin S.r.l.

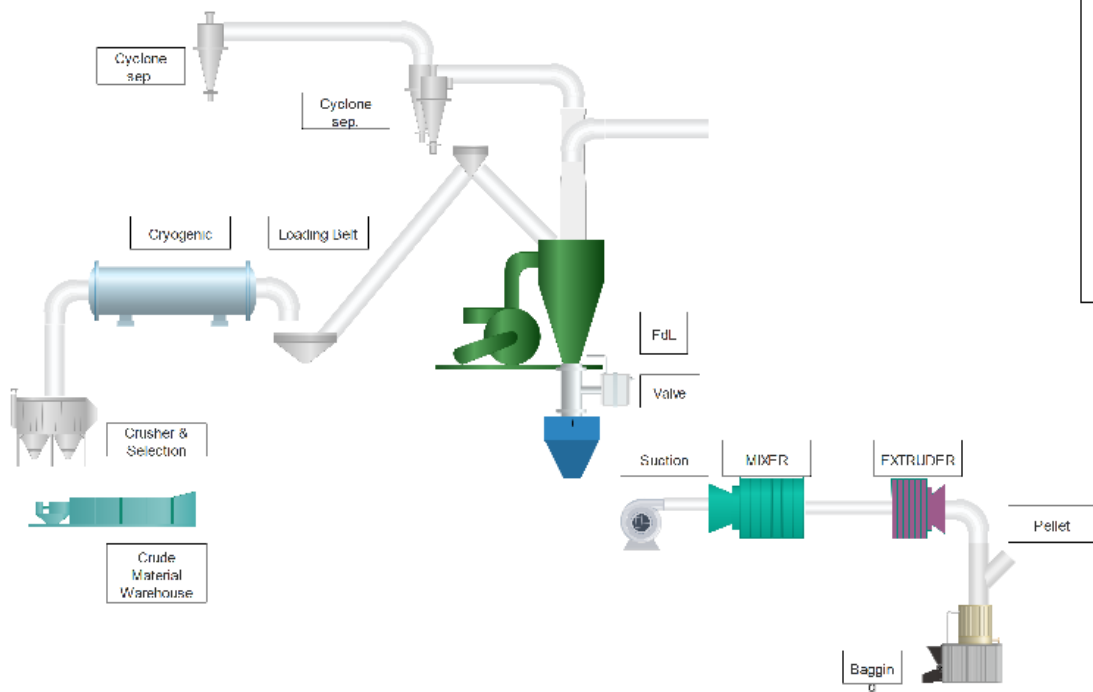
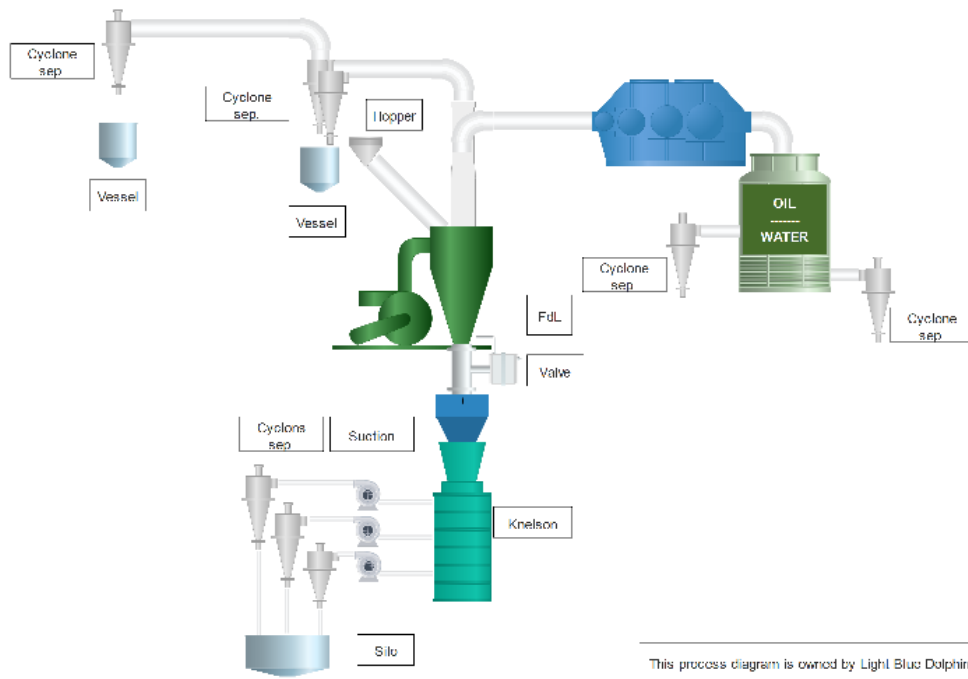
NEW ENERGY RESEARCH TECHNOLOGY

Flusso Tecnologico Polveri implose da sistemi fdl megaltron

Le importanti innovazioni tecnologiche apportate quali nuove tecnologie nell'ambito della polverizzazione implosiva dalla nostra compagnia di ricerca scientifica, sono innovative e completano totalmente il ciclo delle polveri implose in quanto non rimangono residui alcuni. Tutte le polveri, una volta separate dai metalli preziosi, vengono separate qualitativamente per essere riutilizzate in funzione delle loro caratteristiche intrinseche. Le argille possono essere flocculate e generare manufatti dopo impasti ed estrusioni e così dicasi di tutte le altre, da miscelare fra di loro o con altri additivi atti a generare intonaci fotovoltaici, polveri per stampanti per edilizia, nuovi materiali facilmente miscelabili quali isolanti termici, quarziti piro e piezo elettriche, argille per cosmesi, coloranti, basalti polverizzati con i quali fare i tondini per edilizia che sostituiranno il ferro in quanto non si ossidano, recupero ossidi ed altri elementi per agricoltura e così via. In pratica l'indotto delle polveri non primarie, diventerebbero primarie in altri settori ben distinti, che generano ricchezza nel loro impiego. Ogni operazione nel trattamento delle polveri segue le logiche di sistemi pneumatici assolutamente sicure per le persone che sono coinvolte nella produzione e trasformazione. In parole sintetiche, ricicliamo tutto in quanto tutto è ricchezza una volta polverizzato, selezionato, miscelato ed estruso. Il mining in questa visione super tecnologica, trova una vera e propria nuova dimensione, ove al posto di una devastazione del territorio, una volta estratto i minerali principali, ove era logico abbandonare inquinamento e dissesto idro geologico nel sito sfruttato,

senza ripristinarne la Natura e le sue preziose creature, oggi, con le nostre tecnologie ritrova quell'armonia che da troppo tempo è mancante. Con l'agricoltura bio organica ricreiamo piantumazioni originarie ed equilibrio ambientale. Polveri di risulta non esistono nella maniera più assoluta: verranno vendute come tali solo quelle richieste dal mercato, e sempre il mercato detterà come utilizzare le altre preziosi polveri in diversi settori di grande utilità. I sistemi di separazione delle polveri fra di loro, si ottengono tramite nostre tecnologie di divisioni fra di loro tramite risonanza elettromagnetodinamica , differenze di massa e sistemi pneumatici computerizzati. La fila di cicloni separatori di poveri sottili quali periferiche determinanti alle logiche separatrici, sarà di tante unità quante le analisi dei minerali in processo implosivo determinerà.

Riassumendo, il ciclo è in seguente: dopo i crasher, i vagli, le cinture di carico negli implosori, vi saranno le polveri che spinte da turbine genereranno nei cicloni separatori a polveri sottili in serie, le separazioni primarie e secondarie. Le polveri che dovranno essere fuse in metalli andranno nei crogiuoli, le polveri tipo quarziti ed argille potranno essere imballate per essere vendute come tali, ed altre messe nei silos per poi andare nei mixer che impastandole fra di loro e con eventuali altre, genereranno manufatti da flocculare in forni o da utilizzare in agricoltura, costruzioni o quant'altro. Il ciclo delle polveri si conclude con l'utilizzo di ogni singola polvere in molteplici settori dettati dall'economia.





FDL the future in your hand... BEYOND current physics.

*The apparatus is designed to efficiently and easily grind, dry and dehydrate diverse materials... **There are practically no industry where this method would not be required.** FDL technologies are at the top for obtaining competitive products with qualitatively new utilization properties. This trend is also applicable in the nano-technology. Solving these problems requires: creation of new materials with qualitatively new (sometimes specially – pre-set) properties; creation of technical tools that allow achieving of these properties on the cost-effective and environmentally friendly manner. Since conventional shredders, based on the principle of mechanical action have almost reached upscale of their technological limits, the main target lays in the development of processes and devices in many sectors aimed to intensify the physic-chemical reactions in turbulent, cavitation, vortex, film and inkjet in small devices with the release of the crushed product to gain sub-micron level highly homogeneous (uniform), suspensions, emulsions and powders. Not only the implementation of many processes in similar ways can be effective in terms of costs and performance, but also allow to radically improve the efficiency and to create a new technology to gain new products that cannot be manufactured through using traditional methods. Under the leading scientists heading the Light Blue Dolphin New energy Research Technology, there have been executed and successfully finished the research and advanced development processes as the Release Testing of the industrial unit named «Loto Flower Megatron » **for dressing of the «heavy-extractable»** elements, precious metals as the rare earths through the «dry-method» of disintegration for receiving of classified micro-powders in our labs. The patented new technology is a breaking-through innovation which allows to gain dressing or grinding or to extracting of elements from ores, water, sewage, techno genic-waste and to defragment the particles to the size of 5-1 micron as gaining of micro powders of the rare-earths, variously compounded micro powders or grinding of nano-tubes or fullerenes. The technical description and documentation to develop the modification of units – from mobile to heavy industrial, geared to the needs of individual ore-deposits or manufacturing facilities. In resonance pulsed FDL mills a new technology, non-contact milling of materials, is being used, in which the milling processes are performed by means of an air vortex, artificially produced in an enclosed space of the processing chamber of the vortex pulsed mill.*

The equipment, which was created on the basis of resonance vortex milling technology patented by Gian Maria Barbotto in Rome, makes it possible to mill any material, from wheat grain to diamonds. The phenomenon of crushing materials of any hardness is attributable to the creation of zones in the vortex mill that have a pressure gradient of up to hundreds of thousands of atm's, the generation of multi-stage pulsing resonance, of particles. These effects are similar to those that develop in the air of a tornado column created by nature.

In FDL Megatron pulsed resonance vortex mills a new technology, non-contact milling of materials, is being used, in which the milling processes are performed by means of an air vortex, artificially produced in an enclosed space of the processing chamber of the vortex mill.

The equipment, which was created on the basis of resonance vortex milling technology, makes it possible to mill any material, from wheat grain to diamonds. The phenomenon of crushing materials of any hardness is attributable to the creation of zones in the vortex mill that have a pressure gradient of up to hundreds of thousands of atm's, the generation of multi-stage Torus resonance.

FDL Megatron, with a frequency range from sonic to hypersonic (100 MHz and higher). In such a wide spectrum of pulsed vibrations for milled material particles of any size, a frequency is found equal to the resonance frequency of a particle. This mechanism is able to carry out milling down to ultra-fine pieces, measured in hundredths and thousandths of microns (0.01-0.001 microns).

The FDL Megatron resonance vortex mill is a gas-dynamic mill in which cascaded adiabatic resonance impact milling is implemented, with impact velocities close to the threshold of breakdown.

If for torsion (blast) mills the use of compressed air at pressures of 0.7-1.4 MPa is characteristic, then in the pulsed vortex mill a similar effect is reached with 0.2-0.6 MPa, which substantially decreases expenses and makes it possible to obtain particularly fine powders, which cannot be obtained by other methods.

Due to adiabatic expansion, a decrease in temperature of the work environment occurs, which makes it possible to prevent local heating and thermal degradation of the material that is being milled.

The milling chamber is a Toroid and does not contain rotating and chafing parts, which significantly increases its operational life, simplifies its construction, facilitates its maintenance and cleaning, and makes it possible to avoid milling foreign materials into the final product;

Constructional decisions applied to equipment production ensures a significant reduction in electric power expenses for the production of powders in comparison with counterparts.

In several conditions the mill can fulfill the function of a high-efficiency mixer.

For the milling of non-homogeneous materials, such milling conditions are possible when, due to resonance, various components are milled to various sizes, which allows them to be separated. For example, in the milling process, coal can be freed from inclusion of quartzite's; for grain milling, the husk can be preserved.

Higher processing efficiency

Reduction in processing costs

Reduction in energy consumption

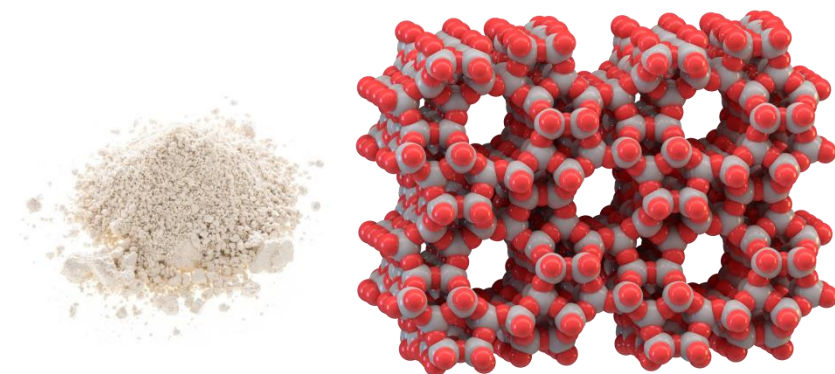
Reduction in maintenance and servicing of equipment

Reduction in space requirements

The elimination of many handling issues

Significant savings in capital construction costs

.....is suitable for most fine grinding and mixing applications in mining, quarrying, cement production, food processing, power generation, gasification, ingredient processing, farming and in the manufacture of cosmetics, paint, chemicals and pharmaceuticals. It performs these processing tasks at substantially less cost and with higher efficiency than conventional equipment. Eliminates pathogens and odors



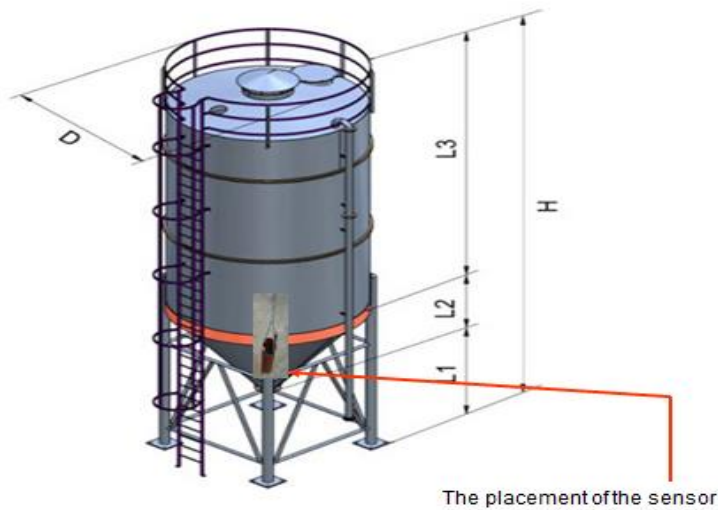


l'impianto completo viene così realizzato:

un generatore di corrente, da un compressore centrifugo, da un nastro trasportatore



Silos e turbine aspiratrici e soffiatori per divisioni qualitative.....



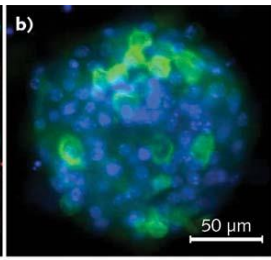
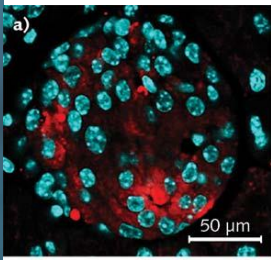
Da un mixer per impastare le polveri e ridurle tramite un



*estrusore, in pellet
pesare il prodotto già vendibile all'arrivo nel porto di appoggio.*

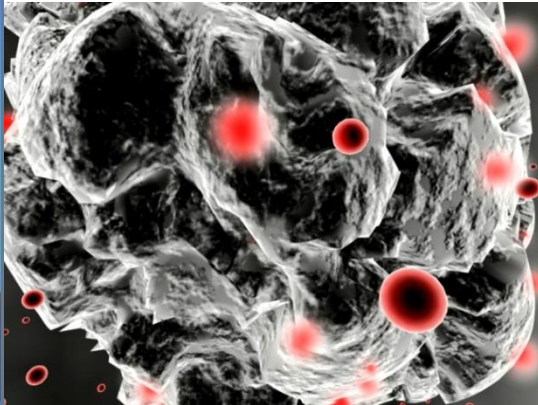
od altro ... per poi imballare e





alluminio imploso fdl







calcite



carbonato di cesio



carbonato di sodio carbone minerale,



carburo di silicio, implosione di ceramica,





Carbonio di tungsteno, trisodio fosfato, polvere di rame ,

argille



malto,



metalli,



oro pigmento

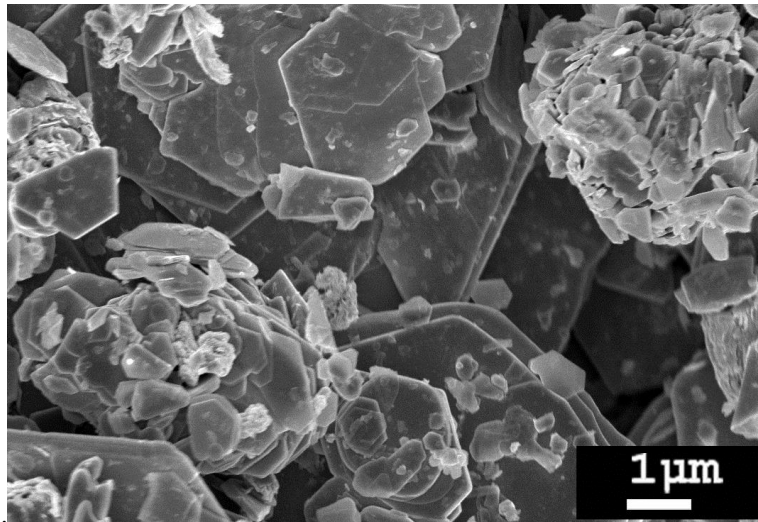


pannello fotovoltaico processato fdl,

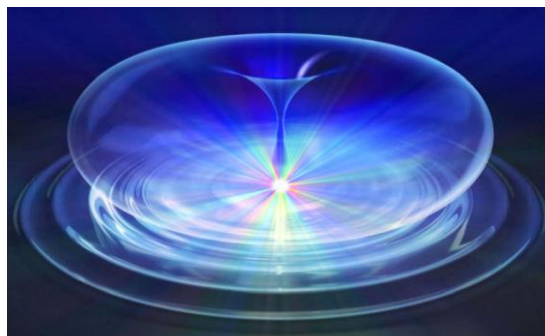
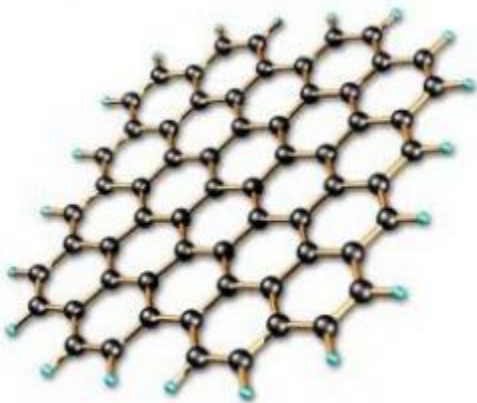




nickel,



zircon



Fiore di Loto Megatron by Light Blue Dolphin New Energy Research Technology

New Technologies can make the difference for a better future.

We love what we do

We love our planet, and we have the mission to make it a better place!

We Go Green

Our Technologies are developed in respect of nature.

We need you

We are always searching for partners who wants to join us in this long journey

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<http://www.lightbluedolphin.com>

www.delfiniazurri.it