



**MOCO shredding technology:  
versatile, economical,  
robust.**





## Modular cutter systems adaptable to different jobs.

MOCO has developed different sets of cutters perfectly adapted to each machine type and to the specific properties of each material. The performance of each cutter type is a function of its width and strength, the design and number of teeth, as well as of the pattern in which they are arranged on the perimeter of the cutting blade.

However, quality as conceived by MOCO is not limited to the cutters alone but it also extends to a firm, safe seat of the cutter on its shaft, as well as to the ease of substitution and maintenance. In addition, a completely new cutting tool ideally adapted to a given shredding job can be created by modifying the pattern in which the cutters and different cutter types are arranged on the shafts.

Our complete range of cutting tools enables a tailor-made solution to practically any, even the most complex, requirement. For example, you may use several shredders assembled in series; this special configuration would enable the material to be crushed and granulated, in a series of successive steps, down to the very smallest particle size (such as granules).







## Each recycling job is different.

MOCO has many decades of experience with size reduction of solid materials. We have learnt from experience that each substance behaves differently.

Be it wood, plastic, paper, glass, metals, natural products, minerals, chemicals, or other materials: Each of these materials shows a completely different behaviour when subjected to a shredder – depending on its specific shape, the quantity in which it is treated, as well as on its physical and chemical properties. Consequently, when choosing the ideal shredding technology for a specific application,

you will rely on a competent partner who has a long-standing experience with, and a profound know-how of, waste reduction technology, and who will design for you a tailor-made solution that takes into account the type of materials and the required results.

In many cases, we have to deal with non-uniform materials. Mixed fractions and shapes of the material to be





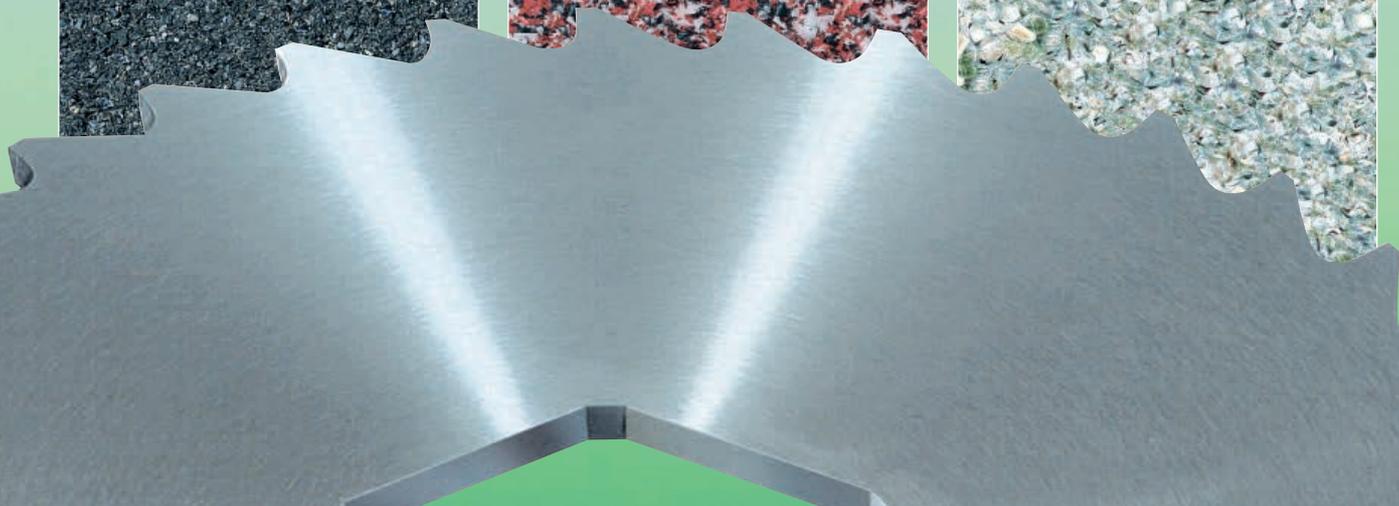
crushed can be more complex and a more demanding approach is required. The machine design will also have to take into account the layout of the feeding device or the strongly variable quantities of material treated during the day.

Admittedly, it is not possible to create the one and only allround crusher for all materials. What we can offer you,

though, is a machine perfectly adapted for a selected range of materials, which are technologically sound, and commercially efficient. MOCO has the answer ... and the know-how.

The MOCO trademark represents shredding engineering at its best, perfectly adapted to the materials to be treated (mixed or compound materials), from the throughput rate of your choice,

as well as to the desired degree of reduction. It stands for efficiency, reliability, safety, and a long service life. In a word, MOCO is a synonym for an individual solution to each and every comminution problem, for quality, and for an intelligent investment.





**MOCO.  
Shredding technology preserves  
the resources  
that we need for  
a better environ-  
ment.**

Recycling is a top issue of our days, as are cost-consciousness, environmental thinking, materials closed recirculation, and well-balanced energy accounting. Shredding is the first step in the recovery of raw materials. While it is true that used-up solid materials cannot be reused ad infinitum in an ever-constant quality, they may still be used as valuable base material for other products. Waste paper, for example can be

recycled several times to be converted into insulating material or packing material. Plastic wastes give birth to new products and utility commodities. In all these cases, shredding is the very first, essential step towards new products.

The same applies to combustible solids which cannot be reused in the manufacturing process. They are crushed and shredded before they are burned to recover energy.





Another aspect of comminution is the reduction of volume for subsequent in-plant or external transport. Volume reduced materials are easy to handle, reduce the cost of transport and disposal, and conform to the confined space conditions in dumping sites and landfills.

Furthermore, MOCO machines are integrated into many production processes with a view to preparing

the raw materials and base materials for further processing.

Last but not least, MOCO shredders are used for the destruction of all sorts of records in full compliance with the data protection regulations – documents, correspondence, drawings, personnel files, and the like. MOCO shredders are used by Central banks and note presses all over the world for the safe disposal of worn-

out or obsolete securities, identification papers, or bank notes, etc. MOCO, with its long-standing experience, holds a strong position among the leading European manufacturers and offers a wide range of machines for any type of application.

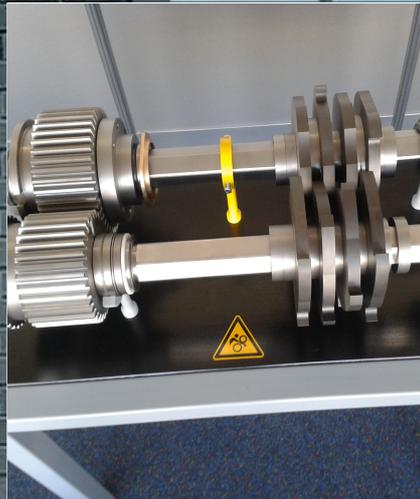




## MOCO machines are first class craftsmanship.

If you have a problem with waste shredding, recycling or disposal of materials – MOCO has the answer. You name the target parameters, such as machine capacity, size of the material crushed, type of material to be treated, type of material feed mechanism, type of material disposal. These specific parameters, along with others, will then be taken into account by MOCO's highly specialised and

experienced engineers, designers, salesmen, fitters and mechanics. Each comminution job being different from the other, each machine that leaves our workshops is unique, designed and built to your individual specification. What you will get is a custom-made machine perfectly adapted in design, size, and performance, to handle your requirements. The machine body is merely a carcass,



a foundation structure awaiting for what we call "tuning". Tuning is defined as equipping and adapting the machine to the specific needs of a customer and includes, among others, the following steps: assembly of the cutter set best suited for a given material; optimization of motor output and gear ratio; electric controls layout; assembling and adjusting feed mechanism and feeder hopper to specifications.

As you can see, MOCO's concept of individual modular design and construction comes fully up to the expectations that you have of an efficient and robust shredder: sufficient safety margins, top performance even at continuous heavy-load operation, a long service life. Technology from MOCO makes your investment all the more profitable.

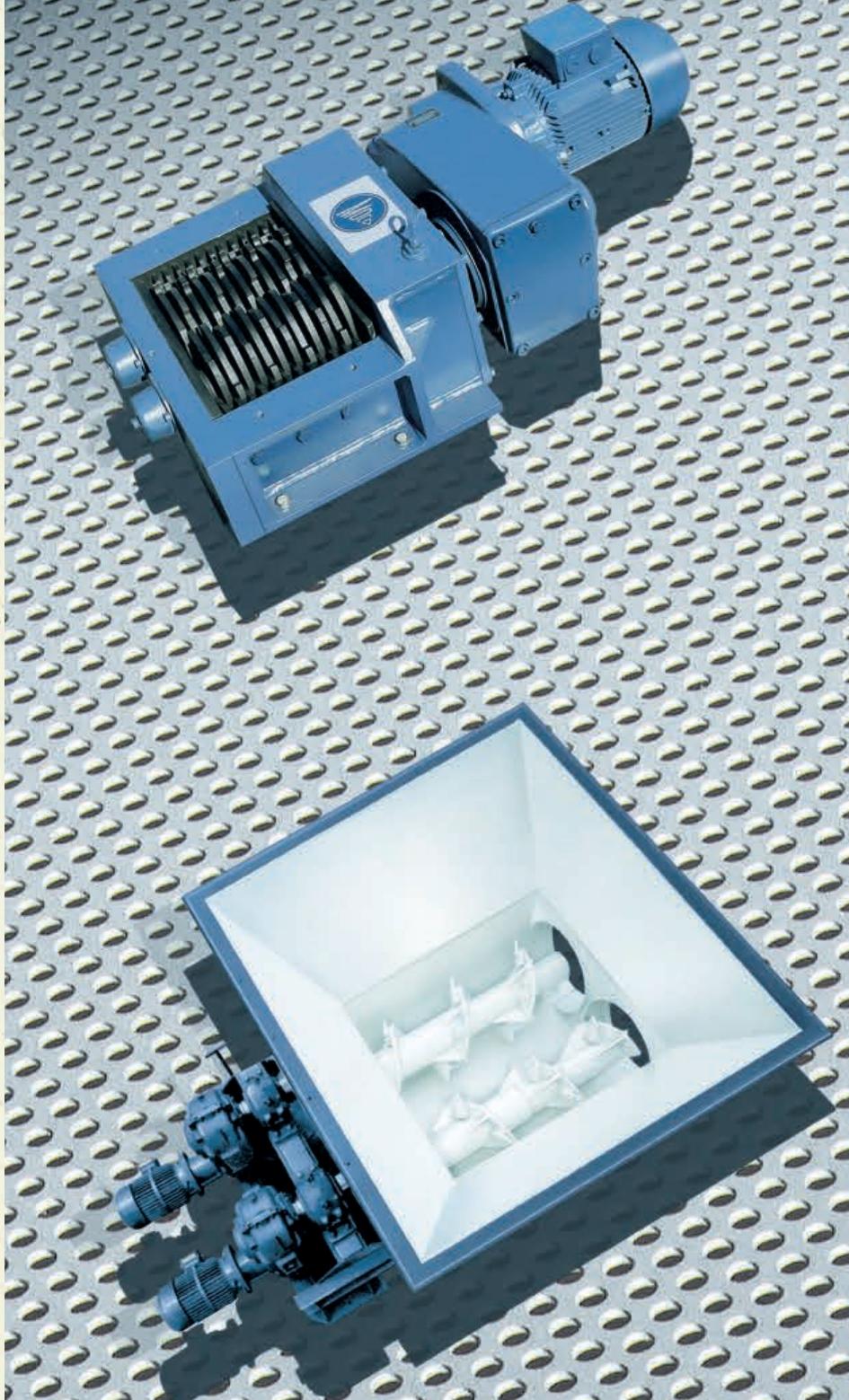


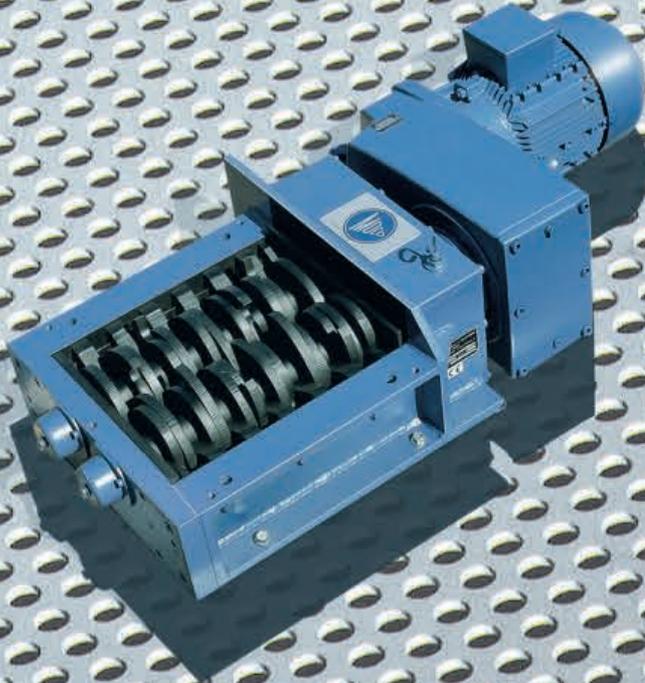
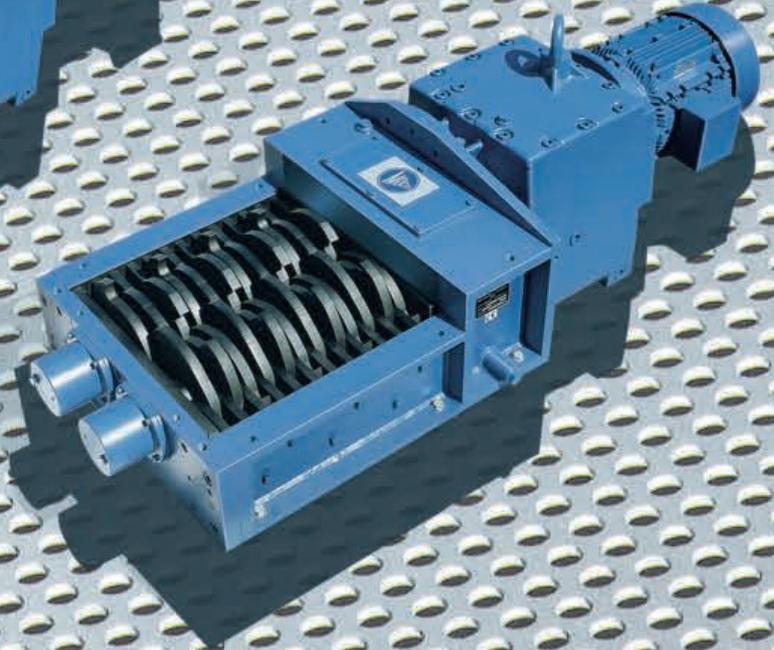
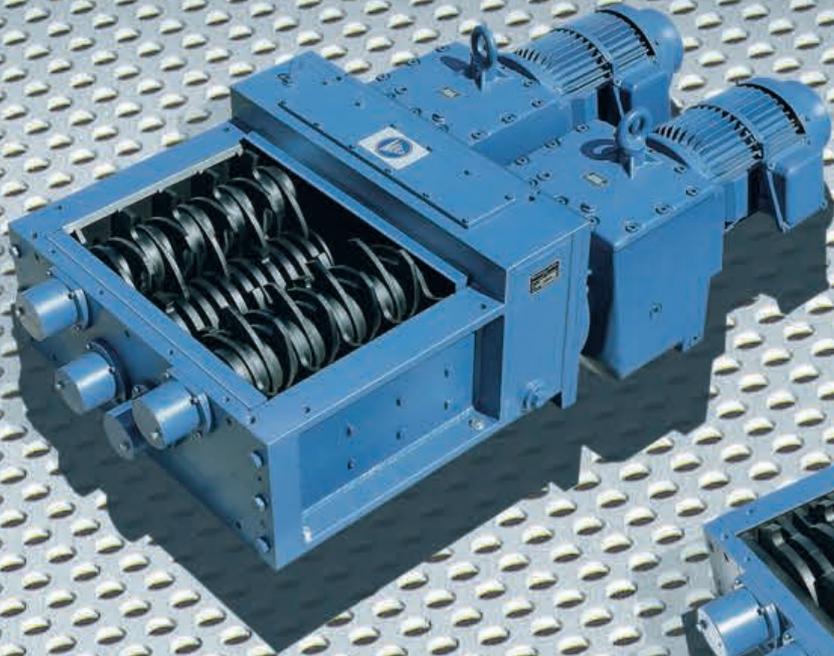


## Ready to cope with each and every challenge.

This is what you can expect of MOCO: A complete range of machines and equipment for even the most complex of applications. The MOCO crushing machines are available in many different types and sizes. A full range of machine components enables a perfect adaptation of our machines to each and every specific requirement: different cutter sets and their multitude of combinations, driving motors, gears, feeding mechanisms, and the like. Since 1971 MOCO have offered custom-made solutions to many customers all over the world. Our invaluable experience, along with a profound engineering know-how, place us among the leading manufacturers of industrial shredders and equipment in the world. Having reached a high degree of excellence with regard to the quality, design, safety, and the economy of operation, of our machines, we promise that we shall continue our efforts to maintain the high standard of our products and services.

Therefore, when a material comminution problem arises or when help is needed, please do not hesitate to talk to us in the first place. We shall be glad to assist you, to give expert advice, or to demonstrate to you, down to the last detail, the outstanding performance of our machines in our showroom.







## Know-how by MOCO as an integral part of plant engineering.

Comminution, as part of large recycling or production lines is a challenge of its own in terms of quality and reliability. This is why engineering by MOCO is highly appreciated in all those cases in which a smooth flow of production and processing must be maintained to avoid costly down time.

What makes MOCO's technological lead over other competitors is not only our long-standing experience with custom-made machines and their optimal adaptation to specific materials and processes but also the competence of our engineers when it comes to discuss, with plant designers and engineers, the technical details of incorporation our crushers into a complete line –

upstream and downstream process stages, material preparation, feed velocity, degree of material reduction, separation of materials, material fractions, control of line components and of the line as a whole.

The competence of MOCO's specialists forms the basis of efficient customer care. An individual design made to the customer's specifications and requirements, useful modifications proposed by our engineers, feasibility studies, functional tests, as well as the assembly and the start-up procedures on the site of installation by our engineers, have made MOCO a strong and reliable partner for plant designers and engineers all over the world.







## MOCO – A brand known all over the world for its absolute reliability.

A good reputation is not acquired overnight. To be successful, manufacturers of capital goods, such as industrial shredders, will have to prove beyond doubt the quality, function, and durability, of their products over many years, even decades. We are successful. The MOCO brand has become a synonym for high-quality comminution engineering all over the world.



Machines bearing the MOCO brand are used for standard applications in factories, offices, administrations, public service enterprises and processing plants. Excelling by an extremely high level of quality and reliability, they are also used for special purposes and for non-standard applications.

The four-shaft granulators are especially designed and developed by MOCO, and have had a great success in the recycling of discarded tires. The slow-running granulator, during the granula-

tion process, removes the steel wires from the previously fragmented tire carcass, thus enabling an early separation of steel, rubber, and fabric, even before the subsequent stage of fine-grinding.

MOCO two-shaft and four-shaft shredders can be found all over the world – including special plants used for the destruction of bank notes, securities, or even secret service documents.

Safety was a major design feature of the MOCO plant used for the volume reduction of low-level radioactive material. The operator must under no circumstances come into contact with the internal machine components – the consequences of an accidental standstill of the machine might be dangerous.

Last but not least, MOCO shredding technology can be found even in the open sea. Ocean-going research vessels, large ferryboats or cruise ships are far away from seaports for many days, or even weeks. This is why the numerous wastes are separated, shredded, and compressed, where they are produced, on board the ship, to be subsequently recycled ashore. At MOCO we make every effort to ensure our products help to provide a cleaner and safer environment.



Movable container with integrated two-stage crusher for the shredding of plastic containers



Volume reduce of low-level radioactive materials



Volume reduction of sorted wastes in the open



Wastepaper-shredder under a dropping chute in an administrative building



Swift on-site availability, with mobile screen treatment plant



Twin-type shredder unit for the destruction of reject material



Pre-crushing of electronics wastes (printed circuit boards)



Three-step record shredding plant



sea



Recycling plant for sodium-vapour lamps



Shredder with baler for discharging production residues