

MAGNETIC SEPARATORS



INNOVATION
IN ACTION



SPECIALISTS
IN MAGNETIC SEPARATION
ACROSS INDUSTRIES

WWW.SOLLAU.COM

WE SPECIALISE IN MAGNETIC SEPARATION AND METAL DETECTION



SOLLAU s.r.o. specialises in magnetic separation and metal detection. We are a Czech company founded on 3 January 2011, which since its inception has built a position as a respected manufacturer and reliable supplier of magnetic solutions for industry.

Thanks to the quality of our products, technical know-how and individual approach to customers, we are one of the TOP European manufacturers of magnetic separators.

All our production takes place in the Czech Republic, where we emphasise high standards of workmanship, the quality of the materials used and thorough inspection of every piece of equipment manufactured.

We have our own production facilities and a specialised design department, which enable us to design and manufacture magnetic equipment tailored precisely to the specific operational and technological requirements of our customers. Innovation is not only part of our development, but also our everyday practice – SOLLAU – Innovation in Action represents our approach to finding functional, effective and long-term reliable solutions.

We help companies increase product purity, protect technological equipment from damage and stabilise production quality across many industries.

We offer comprehensive services – from expert consulting, design and custom manufacturing of magnetic separators, through their installation, to service, inspections and magnetic audits directly at the customer's premises.

Thanks to our extensive network of sales representatives around the world, we ensure high availability of our products and quality technical support in international markets. We pride ourselves on long-term cooperation, an individual approach and solutions that bring our customers real added value, safety and reliability in their daily operations.

- ✓ Free testing of your material within 3 days.
- ✓ Customers in 85 countries.
- ✓ Full support throughout the entire service life of the equipment.

ADDITIONAL SERVICES SOLLAU

Magnetic separator service

Inspection, measurement, repair and maintenance of magnetic separators, including the issuance of service documentation.

Magnetic separator audit

Technical assessment of the functionality, correct placement and efficiency of magnetic separators in operation.

Magnetic separator rental

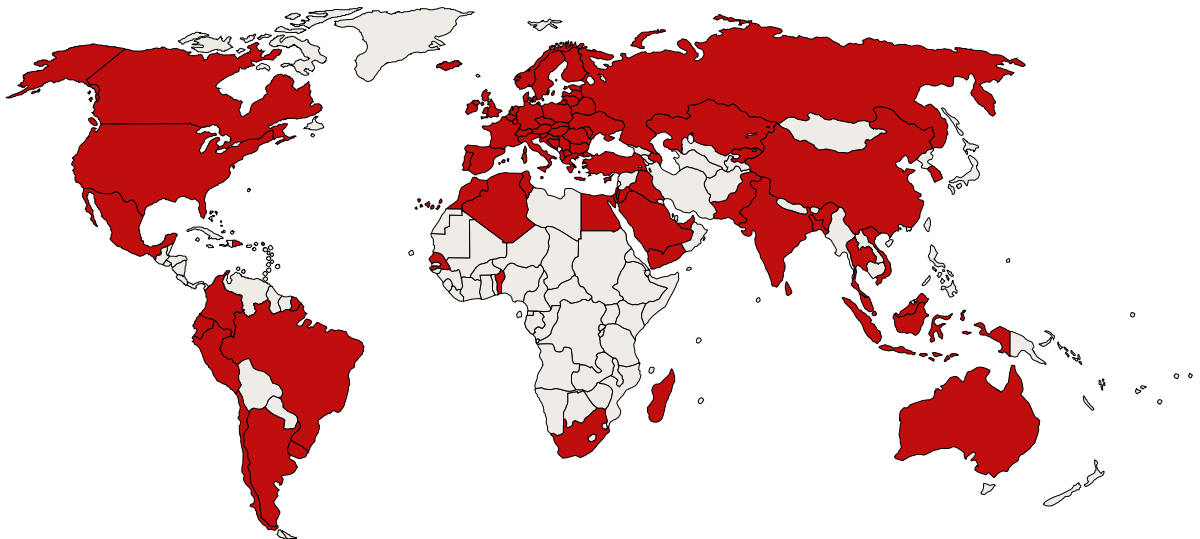
We provide magnetic separators for temporary use, including their delivery with verified parameters.

Purchase of magnetic separators

We purchase used magnetic separators based on a technical assessment of their condition and parameters.

Measurement and testing of magnets

We measure the magnetic induction and functional parameters of magnets and separators with a recorded output.



WHY WORK WITH SOLLAU



1. On-site consultation



2. Tailor-made design



3. Custom production



4. Installation

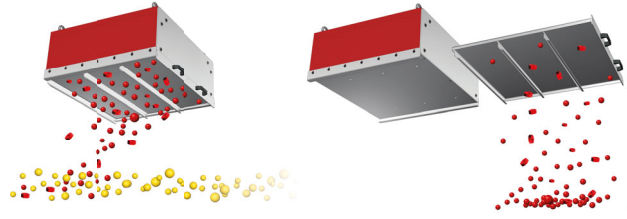


5. Commissioning and training



6. Warranty and post-warranty service

SUSPENDED MAGNETS DND-MC



Separation of ferromagnetic particles measuring 0.5–300 mm from a continuous stream of material on a belt conveyor.

- Installation height up to 450 mm above the belt, conveyor speed up to 3 m/s.
- Optional pull-out cleaning plate and rail system for easier maintenance.
- Possibility to customise the size and type of magnets.

OVERBAND MAGNETIC SEPARATORS DND-AC



The self-cleaning magnetic plate effectively removes ferromagnetic impurities from dry materials on the conveyor belt.

- Automatic cleaning enables continuous operation and minimises downtime.
- Various model series available in ferrite and neodymium versions.
- Installation height up to 500 mm, can be installed above the belt transversely or longitudinally.

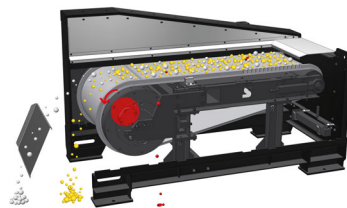
ELECTROMAGNETIC OVERBAND DND-AC E



The DND-AC E electromagnetic plate generates an extremely strong magnetic field and reliably captures impurities even from high layers of material.

- Installation height up to 600 mm, separation of Fe particles from 1.5 mm.
- Fully automated continuous operation without the need for manual cleaning.
- Option to temporarily deactivate the magnetic field for maintenance purposes.

EDDY CURRENT SEPARATORS ECS



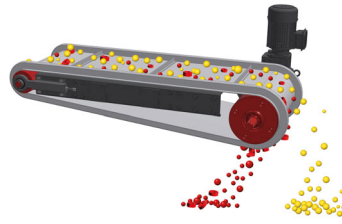
The Eddy Current separator uses eddy currents to separate non-magnetic metals (aluminium, copper, brass) from non-metallic materials (wood, plastic, paper).

- Up to 99% efficiency, separates metal particles from 0.5 mm.
- Smooth operation without interrupting the flow, conveyor belt replacement within 6 minutes.
- Customised production, centric or eccentric rotor.

STAINLESS STEEL SEPARATORS MV-R

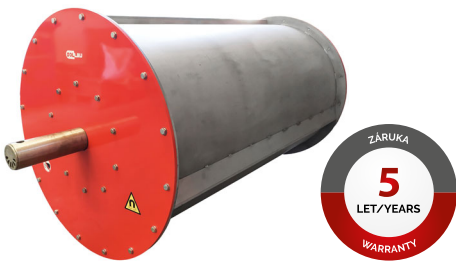


The MV-R separator removes weakly magnetic metal particles (e.g. magnetic stainless steel) generated during industrial material processing.



- Magnetic induction up to 11,000 G, captures particles from 0.1 mm.
- Automatic cleaning without interrupting operation.
- Low operating costs, easy integration into production lines.

MAGNETIC DRUMS MB



Magnetic drums ensure automatic and continuous removal of ferromagnetic particles from bulk materials.

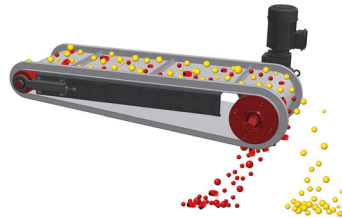


- Various diameters and lengths, fitted with ferrite or neodymium magnets.
- They are not an integral part of the conveyor; they are installed underneath it or in the pipeline.
- Single or multi-stage, open, semi-open or in a box construction.

MAGNETIC ROLLERS MV

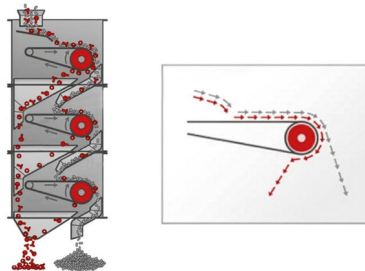


MV magnetic rollers automatically separate iron impurities at the end of the belt conveyor and enable smooth, maintenance-free operation.



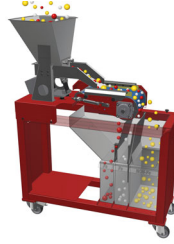
- Magnetic induction up to 4,200 G, fitted with ferrite or neodymium magnets.
- Easy installation into existing belt conveyors.
- Continuous separation protects technology from damage.

MULTI ROLL MAGNETIC SEPARATORS VMSV



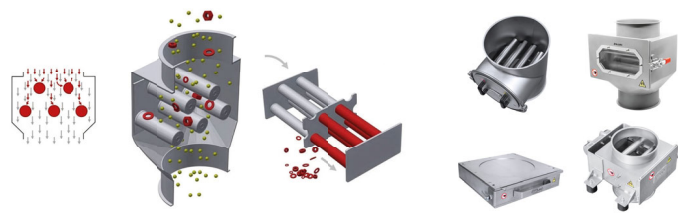
VMSV is a multi-stage magnetic separator that removes even weakly magnetic impurities. Fully automatic and without interrupting the material flow.

- Magnetic induction up to 11,000 G.
- Complies with ATEX safety standards.
- Conveyor belt speed and material feed control, quick and easy belt replacement.

LABORATORY HIGHLY MAGNETIC SEPARATOR **LSV**

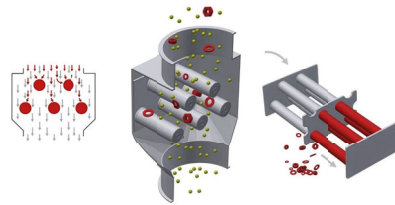
LSV is a compact separator equipped with a high-gradient magnetic cylinder that sorts material into three fractions for the purpose of testing separation efficiency.

- Magnetic induction up to 11,000 G, fully automatic operation without interruption.
- Three separation fractions: non-magnetic, weakly magnetic and magnetic fractions.
- Adjustable belt speed and interchangeable conveyor belts.

MAGNETIC GRATE SEPARATORS IN HOUSING **MSS-MC**

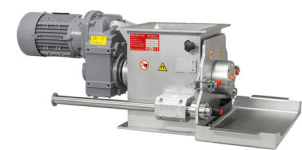
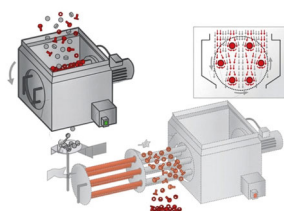
Powerful grate separator for bulk materials. Protects technological equipment and reliably captures even microparticles of metal impurities.

- Magnetic induction up to 18,700 G, capture of Fe particles from 1 μm .
- Single or two-stage separation using magnetic grids.
- Connection and dimensions can be customised according to specific requirements.

DRAWER MAGNETS WITH INDICATION OF MAGNET SATURATION **MSS-MC ALARM**

The first magnetic separator with a fill indicator – prevents operator errors, reduces unplanned downtime and significantly increases separation efficiency.

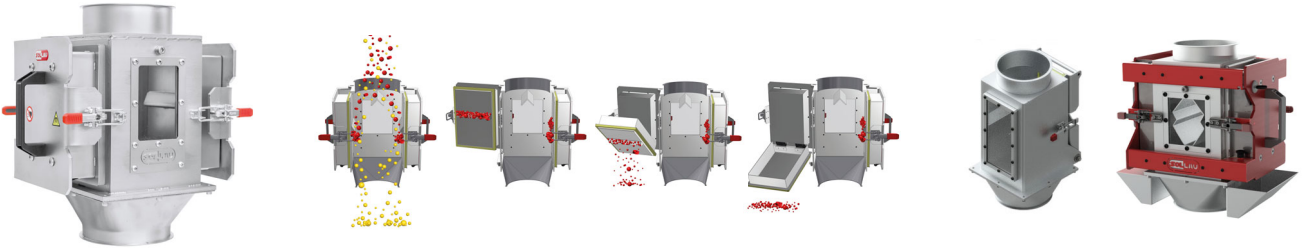
- Integrated LED system alerts you when cleaning is required (100%, 50%, 0%).
- Magnetic induction up to 18,700 G, two-stage separation, Fe particles from 1 μm .
- Quick manual cleaning using removable grates.

TELESCOPIC ROTATIONAL MAGNETIC SEPARATORS **MSR-MC**

Magnetic separator with rotating grate for bulk materials. The rotating grate prevents clogging during the separation of fine impurities from less permeable bulk materials.

- Multi-level separation (2 to 4 stages) thanks to rotating magnetic tubes.
- Processing capacity up to 48 m^3/h , durable all-stainless steel design.
- Easy manual cleaning by removing the magnetic cores.

CHUTE MAGNETS ML



The plate separator (magnetic lantern) enables magnetic separation even of materials with poorer flow properties = no risk of clogging the separator.

- Magnetic plates inside a stainless steel housing with induction up to 7,500 G.
- Suitable for abrasive and poorly permeable bulk materials.
- When the door is opened, the captured metal impurities fall out automatically.

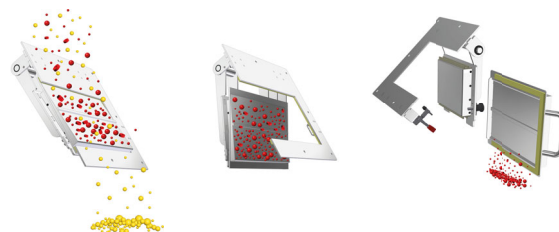
BULLET MAGNETS MT



The pipeline separator with a central core and a spreading cone ensures uniform material flow and prevents clogging during the separation of iron particles.

- It captures Fe particles from 1.5 mm upwards and can handle a flow rate of up to 360 m³/h.
- It separates metal impurities from granulates, sawdust and powders.
- Torpedo shape – even material flow without clogging, even in inclined pipes.

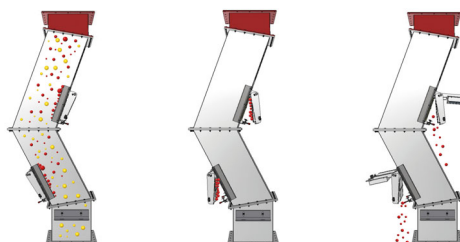
PLATE MAGNET MS-MC-K/S



Compact magnetic separator in the form of a door for inclined pipes – does not restrict material flow and is ideal for abrasive and poorly permeable mixtures.

- Magnetic plate integrated directly into the pipe.
- Magnetic induction 4,500 to 7,000 G, captures Fe particles from 0.5 mm.
- Two design variants: hinged or sliding magnetic doors.

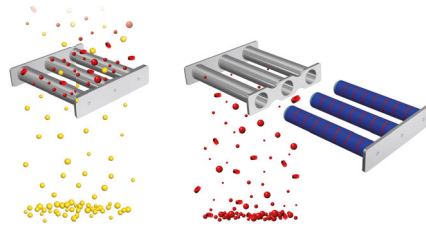
HUMP MAGNETS MSK-MC



The cascade separator can handle extremely large volumes and, with multi-stage separation, ensures maximum separation efficiency without clogging, even with problematic raw materials.

- Capacity up to 365 m³/h without flow restrictions.
- Easy maintenance and cleaning by removing the magnetic cores.
- Robust design with the option of anti-abrasive protection.

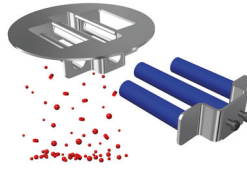
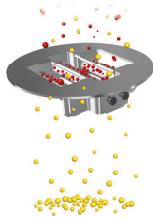
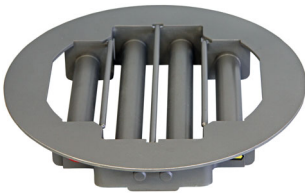
MAGNETIC GRATES MR WITH TELESCOPIC CORES



Extendable magnetic grates with strong neodymium magnets enable fast and effective separation of ferromagnetic particles from bulk materials.

- Magnetic induction up to 18,700 G, captures particles as small as 1 µm.
- The telescopic pull-out system allows for quick and efficient cleaning.
- Separation of Fe particles from bulk materials, including weakly magnetic particles.

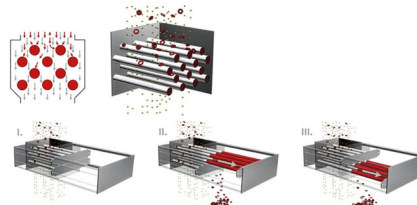
HOPPER MAGNETS TM



The separator for injection moulding machine hoppers removes iron impurities from plastic granules or crumbs, thus protecting the screw and injection nozzle from damage.

- Magnetic induction up to 13,500 G, captures particles as small as 1 µm.
- All-stainless steel design, resistant even in demanding industrial environments.
- Easy cleaning by removing the magnetic cores from the stainless steel casings.

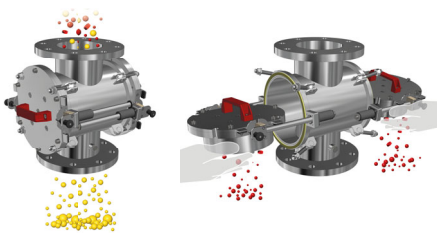
SELF-CLEANING MAGNETIC GRATE SEPARATORS MSS-AC



The self-cleaning grate separator enables continuous separation of fine metal particles without interrupting the material flow. Multi-stage versions are also available.

- Magnetic induction up to 18,700 G, captures particles as small as 1 µm.
- Up to four-stage separation with maximum purity of output material.
- All-stainless steel design with double cover, ATEX certification.

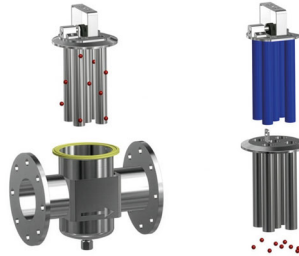
CHUTE MAGNETS ML-P FOR VACUUM AND PRESSURE PIPES



Separator with magnetic plates on the door for pipelines effectively cleans fast-flowing powder and liquid mixtures from metal particles.

- Magnetic induction up to 7,500 G, pressure-resistant construction up to 10 bar.
- It can capture impurities ranging in size from 0.5 mm to 50 mm.
- It can handle material flow rates of up to 150 m³/h and flow speeds of up to 25 m/s.

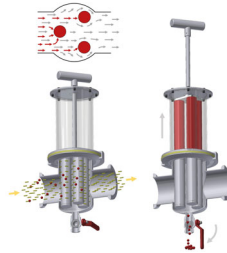
PIPELINE MAGNETIC SEPARATORS MSP-S



The MSP-S magnetic filter is a compact device for separating metal impurities from liquids directly in the piping system.

- Magnetic induction up to 11,500 G, captures iron particles as small as 1 µm.
- Durable all-stainless steel body with a choice of surface finishes.
- Low weight and ergonomic design, double-shell magnet protection.

PIPELINE MAGNETIC SEPARATORS MSP-MC



The MSP-MC separates Fe impurities from pipelines. Thanks to its double-shell design with magnet protection, it ensures high operational safety and convenient operation and cleaning.

- Magnetic induction 12,200 G, captures even very fine impurities from liquids.
- Available in manual, semi-automatic and fully automatic versions.
- All-stainless steel body, withstands pressure up to 10 bar.

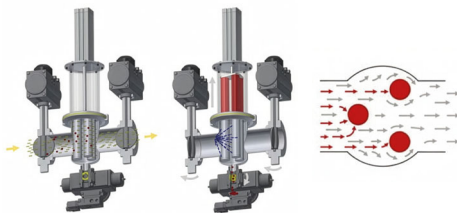
MOBILE MAGNETIC FILTERS MSP-S ANCISTRUS



Mobile separator with integrated magnetic separator cleans oils and emulsions from Fe impurities directly at the machines, extending their service life and reducing downtime.

- Magnetic induction up to 16,000 G captures even small Fe particles from liquids.
- The mobile design allows for quick movement between different machines and lines.
- Quick connection using universal quick couplings.

PIPELINE MAGNETIC SEPARATORS MSP-AC

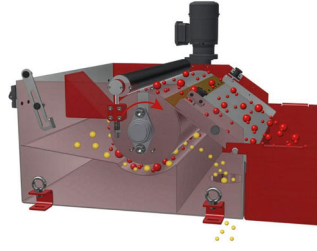


The fully automatic MSP-AC flow separator is designed for the separation of metal contaminants from liquids in large volumes and continuous operation.

- Magnetic induction up to 18,700 G, captures Fe particles from 1 µm.
- Flow rate up to 400 m³/h, possibility of full integration into the control system (PLC).
- Two-stage, more efficient separation and a cheaper, economical version are available.

LIQUID MIXTURES

MAGNETIC COOLANT SEPARATORS MVS



MVS automatically removes Fe impurities from industrial liquids (oils, emulsions, etc.), extending their service life, improving machining quality and eliminating disposable filters.

- Separation efficiency up to 98%, captures particles as small as 10 µm.
- Robust stainless steel construction resistant to abrasion.
- Low operating costs, no replacement filters required – environmentally friendly operation.

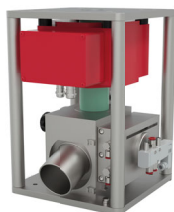
SORTING LINES



Custom-designed sorting lines combine various separation technologies with high efficiency. For recycling, waste and industrial operations.

- Automated sorting of various materials (plastics, paper, glass, municipal waste, etc.).
- Modular design allows for easy expansion and modification of lines.
- Individual sorting line design according to customer requirements.

METAL DETECTORS



Metal detectors reliably detect metal contaminants in food, building materials or the recycling industry, thereby increasing production safety and quality.

- Highly sensitive sensor detects both ferromagnetic and non-magnetic metals.
- Detectors for belt conveyors, drop systems and pressure transport.
- Easy integration into existing production lines.

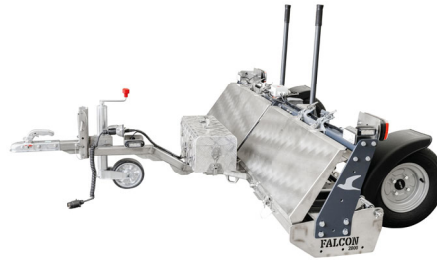
FIREFLY PORTABLE LIGHTED RUNWAY CLOSURE MARKER



The mobile light cross is used for quick and unmistakable marking of closed runways or taxiways in accordance with FAA, EASA and L-14 regulations.

- The only mobile light cross manufactured in Europe!
- Easy to transport, quick assembly by one person in less than 1 minute.
- Own power source, long battery life up to 120 hours.

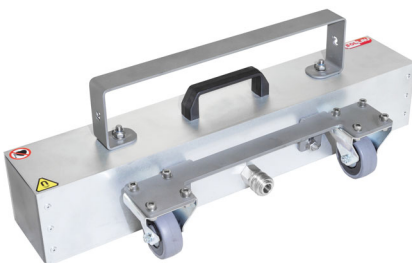
MAGNETIC SWEEPERS FOR AIRPORTS AND LARGE AREAS MS AND MSA



Magnetic sweepers are used for the effective collection of metal debris and FOD from large areas such as airports, roads, car parks and industrial sites.

- Easy to install and operate, the sweepers can be attached to various types of vehicles.
- Wide cleaning coverage: working widths from 2,000 to 9,000 mm.
- Cleaning at speeds of up to 45 km/h, cleaning performance up to 411,000 m²/h.

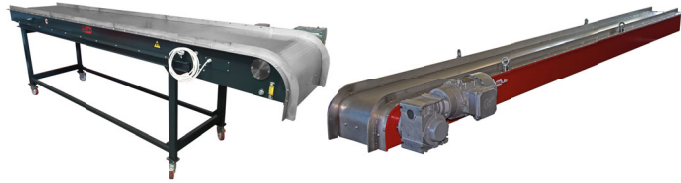
MAGNETIC BROOMS



Magnetic brooms designed for effective collection of metal debris from the floors of industrial halls, warehouses, car parks and transport areas.

- They increase safety and prevent tyre punctures and damage to machinery.
- Available in suspended, mobile and forklift versions.
- The robust construction is resistant to dust, moisture and harsh conditions.

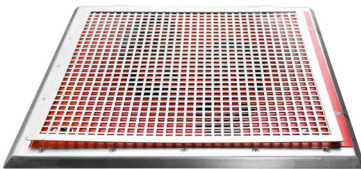
MAGNETIC BELT CONVEYORS



Specially designed magnetic conveyors ensure safe and efficient transport of metal parts of various sizes and shapes.

- The closed conveyor design ensures increased work safety.
- Transport of sharp, oily or abrasive parts.
- Option to select magnetic force, magnet placement and design as required.

MAGNETIC MATS



Magnetic mats capture metal contaminants from employees' footwear and prevent them from being carried into sensitive production areas.

- They prevent contamination of production and meet strict hygiene standards.
- They enable laboratory analysis of captured contaminants.
- Available in stainless steel or plastic designs, as well as designs with a scraper.

MAGNETIC SHEET SEPARATORS



Magnetic sheet separators enable easy and quick separation of stacked steel sheets, thereby increasing handling efficiency and preventing surface damage.

- Separation of sheets up to 3 mm thick in stacks up to 530 mm high.
- Safe and easy handling and installation.
- Modular system – various types of clamps can be attached to the bracket.

MAGNETIC CLAMPS



Permanent, electro-permanent and electromagnetic clamps enable quick and secure clamping of workpieces during machining, allowing the workpiece to be machined from 5 sides.

- High clamping force up to 160 N/cm².
- Clamping plates for grinding, milling and turning.
- Robust construction with a long service life, simple operation and maintenance.

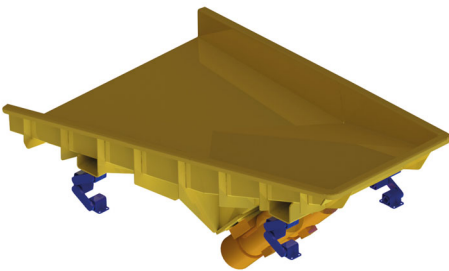
VIBRATING SIEVES – VIRTO CUCCOLINI



Vibrating screens ensure efficient screening and sorting of bulk and liquid materials, thereby increasing the quality of final products and production efficiency across industries.

- Screening ensures safety, quality, recycling and classification of materials.
- A wide range of models with the option of customisation according to requirements.
- Separation technology for all industries.

VIBRATING CONVEYORS – SKAKO



Vibrating conveyors ensure the smooth transport of a wide range of bulk materials with minimal wear and tear and significantly increase operational efficiency.

- Designed for efficient transport and dosing of bulk materials across industries.
- Robust and modular design, easy integration into production lines.
- Wide range of different types of vibrating feeders and conveyors.

SCRAP MAGNETS – DIMET



DIMET scrap electromagnets are circular magnets specially developed for handling scrap metal in scrap yards, foundries, warehouses and workshops.

- Fast, reliable and safe handling of scrap metal.
- Cast iron casing with armoured plate ensures durability and long service life.
- Multiple power options: super-light, light, medium and heavy.

REFERENCES

Our solutions are used in the automotive industry, food industry, waste management and many other sectors.

Market leaders and the most important companies in their fields place their trust in our products. However, we treat all customers with the same care, because we believe that each of them deserves above-standard service.

