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Industrial Magnetism. Engineered with Legacy.



About Us

We are a legacy manufacturer of industrial **Benco Brand Magnetic Separators** and Material Handling Solutions. Trusted by India's top plants for over four decades, we combine in-house magnetic expertise with modern-day reliability.

- **Decades of experience** with iron, steel, coal, glass, tea, plastic, and ceramic plants.
- **Trusted** by leaders in India across all key industrial zones
- Deep expertise in magnetic layout **planning** and **customization**.

Our Products

1. Benco Brand Magnetic Separators

High-performance systems designed to automatically remove ferrous contaminants from bulk materials, powders, ores, and slurries. Benco's range of separators — from drums to roll and belt systems — are trusted across industries for their reliability, throughput, and purity control.

Suspended Magnet

Suspended Magnets are installed above conveyor belts to remove ferrous impurities from bulk



materials. Ideal for stone crushers, coal plants, and other industries these magnets ensure smooth equipment operation and product purity.

- Available in **Permanent** and **Electro** types
- Suitable for belt widths: **400mm to 1400mm+, at customized sizes.**
- **No power supply required** for permanent type
- **Rugged construction** with **aluminium/copper wound coils** (for electro type)
- Easy mounting with **chain, hook, or frame** options

Applications:

- Stone crushing plants
- Coal & cement plants
- Iron ore handling
- Glass, plastic, and ceramic industries

Magnetic Drum Separator

Magnetic Drum Separators are designed for **continuous separation of ferrous materials from dry or semi-liquid**



feeds. Installed at the **discharge end of conveyor belts** or **beneath material flow** points, these separators ensure product purity and equipment protection in **high-volume applications.**

- Drum sizes available from **300mm to 1200mm diameter**, with varying lengths. Customized according to requirement.
- Options: **Ferrite** magnets for general use or **Rare Earth** for high-intensity separation
- Durable stainless-steel drum shell with **shaft-mounted magnetic core**
- Available in **single, double, or triple** drum configurations
- Can handle **high throughput** in dusty and abrasive environments

Applications:

- Stone Crushing Plants
- Iron Ore Processing
- Coal Handling Units
- Foundries & Sand Plants
- Ceramic, Glass, and Refractory Industries

Overband Magnetic Separator

Overband Magnetic Separators are powerful self-cleaning magnets used to remove ferrous contaminants from conveyor belts. Suspended over material flow lines, they



automatically discharge captured metals via a motorized cleated belt — making them ideal for continuous, high-volume industrial operations

- **Automatic self-cleaning** with a rubber or PVC cleated belt
- **Suitable for conveyor widths from 400 mm to 2000 mm, customized as per requirement.**
- Available in **Permanent** and **Electromagnetic** versions
- Heavy-duty design with reinforced frame and pulley system
- **Long magnetic burden** depths
- Optional custom mounting frame and power control panel (for electro type).

Applications:

- Stone Crushing Plants
- Coal & Cement Plants
- Recycling & Scrap Yards
- Iron Ore Processing Plants

Magnetic Roll Separator

Magnetic Roll Separators are precision-engineered for **high-intensity, high-gradient magnetic separation** of weakly magnetic or paramagnetic



Magnetic Head Pulley

Magnetic Head Pulleys **replace standard conveyor**

pulleys to continuously extract tramp iron from material flow.

Installed at the discharge end of a



conveyor, they provide a simple, maintenance-free method of **automatic ferrous separation without altering the existing belt setup.**

Non-magnetic material follows a normal trajectory, while ferrous particles stick to the pulley surface and drop off into a separate chute.

- **Simple retrofit** for existing conveyors — no extra motor or frame needed
- **Continuous self-cleaning** as ferrous material is automatically ejected
- Core magnet made from **high-grade Ferrite or Rare Earth**
- Available in diameters from **200mm to 600mm**, and widths as per conveyor size, at **customized** sizes.
- Rugged stainless-steel shell with precision-balanced design

Applications:

- Stone Crushers
- Coal Handling Plants
- Sponge Iron and Steel Plants
- Shredding & Waste Management Plants

Magnetic Belt Concentrator Separator/ Magnetic Plate/Bench

Magnet

Magnetic Belt Concentrator Separators are designed for **high-efficiency concentration and recovery**



minerals. Ideal for **fine** particle separation, these separators use **powerful rare earth magnets** to ensure **maximum recovery** of valuable or sensitive materials.

- Incorporates **NdFeB (Neodymium) rare earth magnets** for intense magnetic field
- Available in **single, double, or triple stage** roll configurations
- Adjustable feed system with **vibratory feeder and splitter**
- Works with **dry, free-flowing materials** in fine powder or granular form
- Dust-tight construction with **durable stainless-steel body.**

Applications:

- Mineral Beneficiation Plants
- Glass and Ceramic Plants
- Foundries and Powder Metallurgy
- Electronic Scrap Separation
- High-purity Material Processing

of magnetic materials from industrial feeds. They use a powerful magnetic field in conjunction with a moving belt to gently lift and separate even fine or moderately magnetic particles, delivering a high-purity output stream.

- Utilizes **high-gradient magnetic field**
- **Moving belt system** with magnetic bed underneath
- Ideal for dry separation of ferrous and non-ferrous particles.
- Designed for **concentration, not just removal** — improves yield
- Available in widths from **100mm to 1200mm+**
- Low maintenance; stainless steel body with powder coating option

Applications:

- Steel Plants
- Sponge Iron Plants
- Coal Plants

Magnetic Ferro Filter/ Pulp Filter

Magnetic Ferro Filters are **high-intensity** magnetic separators designed for **removing fine iron contaminants from viscous**



liquids and slurries. These filters are built to handle **abrasive, sticky, or semi-fluid** materials where standard separators struggle, delivering **superior purity and machine protection.**

- Equipped with rare earth or high-gauss ferrite rods
- Available in single-layer or multi-layer core configurations.
- Robust construction for chemical resistance
- Designed for inline or offline installation in pipelines and tanks
- Custom inlet/outlet flanges (e.g., 2" to 8").

Applications:

- Ceramic Slurry Filtration
- Paint, Pigment, and Ink Industries

Magnetic Liquid Trap Separator

Magnetic Trap Separators are designed to **extract fine ferrous particles from liquids, slurries, and semi-solid materials** flowing through pipelines.



These units consist of powerful magnetic elements housed inside a stainless-steel body, ensuring **non-stop filtration** without clogging or flow disruption

- Constructed from SS304 or SS316 for corrosion resistance
- Fitted with **high-strength magnetic rods** or cartridges (Ferrite/Rare Earth)
- Available in customized sizes from 1.5" to 8" inlet/outlet
- Suitable for **vertical or horizontal line installations**
- Optional dual-layer magnetic matrix for extra filtration.

Applications:

- Dairy & Beverage Processing
- Water and Wastewater Plants

- Oil & Lubricant Purification
- Chemical and Pharma Plants
- Mineral Processing Liquids
- Chemical and Pharmaceutical Lines
- Ceramic Slurry & Glaze Systems
- Edible Oil and Lubricant Manufacturing.

2. Benco Brand Magnetic Equipment / Components

Core magnetic units like hopper magnets, rods, and sweepers — built to trap iron at material inlets, chutes, or shop floors. Compact, durable, and easy to install in any processing line .

Hopper Magnet/ Magnetic Grate/ Magnetic Grid

Hopper Magnets (also known as Magnetic Grates) are installed inside hoppers, chutes, or bins to **capture ferrous contaminants from free-flowing dry materials** such as powders, grains, and granules. They act as the first line of defence against metal contamination in processing lines.



- Available in **round, square, or rectangular** shapes, customized for your hopper.
- Equipped with **high-strength rare earth magnetic rods**
- Constructed using **Stainless Steel** for food-grade or chemical resistance
- Easily placed or removed for cleaning
- Customizable for **size, rod spacing, and number of layers**

Magnetic Rod/Magnetic Tube

Magnetic Rods are the core components



used in hopper magnets, grates, filters, and custom magnetic assemblies. They are designed to **capture ferrous particles from dry materials or liquids** and are

widely used in both inline and custom-built systems.

- Built with **high-strength rare earth (NdFeB) or ferrite magnets**
- Sizes typically range from **100mm to 600mm** in length, **25mm diameter** standard
- Made with **stainless steel casing**
- **Threaded or plain ends** available for mounting
- High surface gauss (up to **12,000+ Gauss**) for fine particle capture

Use Cases:

- Core elements for hopper and grate magnets
- Liquid line filtration (inside ferro filters, trap separators)
- Custom magnetic grills or drawers
- OEM machinery requiring internal magnetic capture

Typical Materials Filtered:

- Plastic granules
- Food grains
- Ceramic powders
- Spices and chemicals
- Fertilizers and pigments

Applications:

- Plastic injection molding machines
- Food & pharma hoppers
- Chemical mixers
- Grain and spice processing
- Cement and ceramic powder lines.

Applications:

- Food Processing
- Chemicals & Paints
- Plastics & Granules
- Ceramics & Refractories
- Slurry filtration units

Magnetic CTC Bar (for Tea Plants)

Magnetic CTC Bars are specially designed for tea processing units to **remove iron**



contamination from crushed, torn, and curled (CTC) tea leaves during production. These compact magnetic bars are installed near discharge chutes, vibrating screens, or conveyors in tea factories to ensure food safety and export-grade purity.

- Built with **ferrite or rare earth magnets**, depending on customer preference
- Available in standard sizes: **300mm to 600mm length, 25–32mm diameter**
- Encased in **Stainless Steel** for hygiene and corrosion resistance
- Lightweight and **easy to install or clean manually**.

Applications:

- CTC Tea Processing Plants
- Tea Leaf Grading & Sorting Lines
- Bulk Tea Packaging Units
- Export Processing Zones (Tea)

Magnetic Roller

Magnetic Rollers are **compact, high-intensity separation units** that function like mini magnetic pulleys — designed



to automatically **extract ferrous particles** from material flow **on small or narrow conveyors**. These are ideal for use inside OEM machinery or tight processing setups.

- Available in diameters and lengths customized as per conveyor width
- Core magnet built with **high-power ferrite or rare earth materials**
- Shell made from **polished, non-magnetic stainless steel**
- Can be fitted as **tail pulley or intermediate roller**
- Designed for **continuous operation with self-cleaning effect**

Use Cases:

- Compact conveyors in **plastic, food, or chemical packaging lines**

- Trusted by resellers and OEMs in **Assam, Bengal, Nilgiri** and other tea zones
- Cost-effective and reliable solution for basic compliance
- Machinery where **headroom or power constraints** exist
- Often used in **multi-stage magnetic setups**

Applications:

- Stone Crushing
- Mineral Beneficiation
- Food & Grain Handling

Magnetic Floor Sweeper

Magnetic Floor Sweepers are manual cleaning tools **used to collect ferrous scrap, nails, and metal debris** from factory floors,



yards, and workspaces. Fitted with strong permanent magnets and mounted on wheels, they offer a fast and safe way to **keep industrial environments clean and injury-free**. Equipped with a lever for fast release of contaminants.

- Constructed with **permanent magnets** enclosed in a rugged steel or aluminum body
- **Quick-release lever or tray** for easy disposal of collected material
- Sweeping widths typically range from **300mm to 1000mm**
- Light-weight frame with durable rubber wheels for easy maneuvering.

Applications:

- Steel workshops & fabrication units
- Construction sites & scrap yards
- Automotive garages
- Stadiums, resorts and municipalities
- Stone crusher yards

3. Benco Brand Magnetic Lifters

Heavy-duty lifting solutions powered by permanent or electro-permanent magnets — designed to **safely lift ferrous materials without clamps or hooks**. Ideal for workshops, warehouses, and industrial handling of steel plates, blocks, and bars.

Permanent Magnetic Lifter

Permanent Magnetic Lifters are compact, high-strength lifting tools designed to **safely lift and handle**



steel plates, blocks, billets, and round stock without clamps, slings, or electricity. Activated by a simple lever, these devices are widely used in workshops, warehouses, and fabrication yards for efficient and safe material handling.

- Available in capacities from **100 kg to 2000 kg**
- Strong NdFeB (Neodymium) magnets — **no external power needed**
- **Manual lever with safety lock** to prevent accidental release
- High **power-to-weight ratio** — compact yet powerful
- Sturdy **yellow powder-coated body** for visibility and durability.

Technical Note:

- Requires **clean, flat surface contact** for full-rated lifting
- Must be used on **ferromagnetic materials only** (not stainless or non-ferrous metals)

Applications:

- Plate lifting in fabrication shops
- Machine loading/unloading
- Warehousing and steel handling
- CNC and laser cutting plants

Electro-Permanent Magnetic Lifter

Electro-Permanent Magnetic Lifters combine the **safety of permanent magnets** with



the **control of electrical activation** — allowing operators to lift and release heavy ferrous loads **at the push of a button**.

Power is only used during ON/OFF switching, making them energy-efficient and extremely safe.

- **Failsafe Design** — load stays held even during power loss
- Activated by **push-button or remote control**
- Power only used to switch magnet ON/OFF — **no continuous power needed**
- Available in capacities from **200 kg to 3000 kg+**
- Built-in **battery pack or wired panel** (depending on model).

Applications:

- Heavy steel plate handling in CNC/laser workshops
- Coil and pipe lifting in stockyards
- Shipbuilding, heavy fabrication, machine shops

Why Choose a Benco Product?

- **Deep Expertise:** Over four decades of hands-on experience in industrial magnetic solutions.
 - **Quality First:** All products are manufactured under strict quality controls for **reliable, long-lasting performance**.
 - **Customization Ready:** Tailored designs and magnet configurations to suit **your specific** plant layout and throughput.
 - **After-Sales Support:** **Dedicated assistance** for installation, troubleshooting, and spares — just a call away.
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Trusted Across Key Industrial Hubs

Benco Magnetic Solutions are relied upon by leading industries and resellers across India. While our core business is direct industrial supply, many of our products are also **trusted by resellers and project consultants** who value consistent quality and delivery.

Our magnetic solutions are trusted by **industries across India**, with clients spanning **East, West, North, South, and even the North-East**. While we have a strong legacy in Eastern hubs like **Durgapur, Rourkela, and Raipur**, our reach extends to **every major industrial belt in the country**.

 Our magnets are widely used in:

- ✓ **Leading Steel Plants**
- ✓ **Coal Handling & Washery Units**
- ✓ **CPC (Calcined Petroleum Coke) Producers**
- ✓ **Refractories, Plastic, Glass, and Ceramic Manufacturers**
- ✓ **Stone Crushing and Cement Plants**
- ✓ **Tea Processing Units**

Whether it is a slag processing plant in Chhattisgarh, a crusher unit in Gujarat, a cement works in Tamil Nadu, or a tea factory in Assam — Benco products are known for their performance, durability, and reliable support.

From Odisha to Maharashtra, Punjab to Tamil Nadu, and Assam to Gujarat — Benco delivers magnetic solutions nationwide. A complete list of clients across sectors can be provided upon request.

Benco Brand Magnets are known for their **durability, consistent magnetic strength, and minimal maintenance requirements** — a dependable partner in your industrial workflow.

Get in Touch

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 **Why Wait? Take the Next Step Today.**

Protect your equipment, enhance product quality, and ensure operational efficiency with **Benco Magnetic Solutions**.

Whether you are an end user or reseller, we will help you find the right magnetic separator, lifter, or detection system for your industry.

 **Call us today or email your requirements** — and we will get back with a custom quote or technical recommendation.

□ ***“Engineered with legacy. Delivered with precision.”***

Let **Benco** power your plant’s magnetic needs.