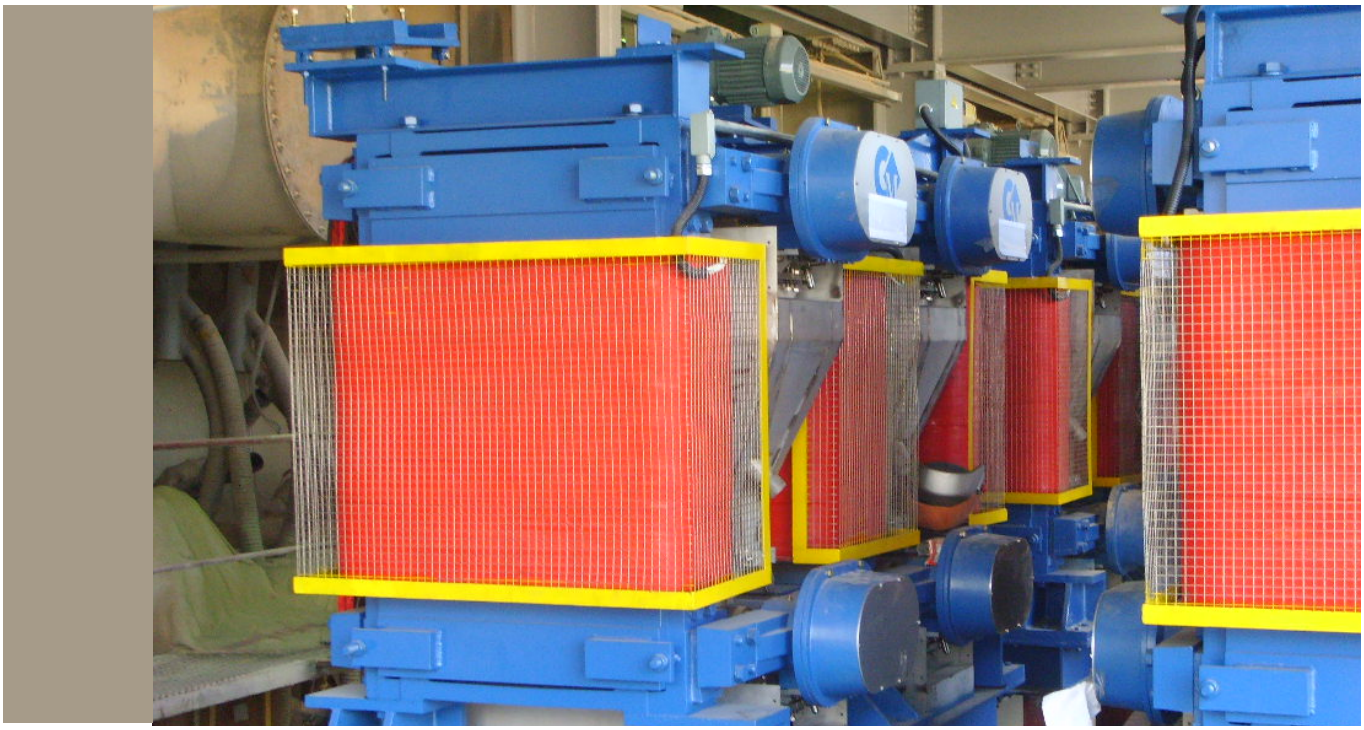
High-Intensity Induced Roll Magnetic Separator

An Eight-roll, double feed point, double stage unit



Uses of Induced Roll Magnetic Separator

Induced Roll Separators are primarily used for separating or concentrating minerals or materials of low magnetic susceptibility.

Uses include extraction of iron or chromium bearing minerals from silica sand, the concentration minerals such as wolframite, the removal of paramagnetic minerals such as Iron Titanium Oxide (Ilmenite, $FeTiO_3$), Iron Carbonate (siderite, $FeCO_3$), etc., from valuable non-magnetic minerals, and purification of dry granular chemical compounds and abrasives.

These self-cleaning magnetic separator selectively removes magnetic components out of a conveyed material and discharges them as distinct and clean material. Field intensity is adjustable for selective recovery. Very high gauss of 20,000 is achieved by the magnetic separator.

The throughput and degree of separation depends upon the following factors:

1. The susceptibility of the magnetic fraction - throughput is reduced for materials of lower magnetic susceptibility.
2. The particle size - for most materials the maximum size which can be satisfactorily treated is 3mm. For the treatment of dry materials up to 50 mm in size, electromagnetic multi-channel Pulley or Drum Separators are available (details available upon request). The presence of fine particles (particularly those less than 30 microns) reduces throughput.
3. The bulk density - higher values increases throughput.
4. The flow characteristics - these are determined by particle shape, surface condition and moisture content. Better flow characteristics increase throughput.
5. The proportion of magnetics - a high percentage of magnetics may reduce throughput.

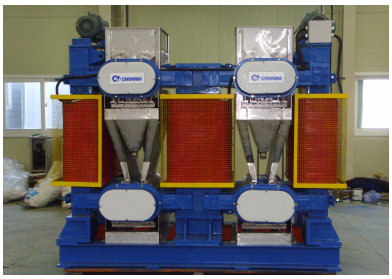
Specifications

Model	Size (L x W x H) (mm)	Magnetic Density (Gauss)	Motor (HP)	Power (kW)	Weight (kg)	Throughput (Ton/hr)
CMSP 500	1423 x 1528 x 2410	20,000 (minimum)	5 HP x1	6.2	9550	6
CMSP 700	2628 x 1528 x 2410	20,000 (minimum)	5 HP x2	9.2	13550	11

** Other models available upon inquiry.*

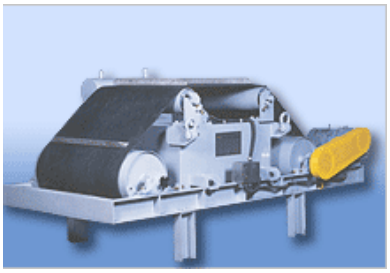
Chunma Magnetic Separator Series

Chunma Corporation has a proven track of manufacturing high intensity induced roll magnetic separators to world-class silica mines for over a decade with perfect customer satisfaction.



High Intensity Induced Roll Magnetic Separator

High Intensity Induced Roll Magnetic Separator is used for the continuous extraction of small magnetic particles from certain minerals to produce mineral purification for a wide range of mineral and ceramic processing industries. The material being treated is fed from a hopper or vibratory feeder at a controlled rate onto a high intensity magnetic roll.



Suspended Electromagnetic Separator/Cross Belt Separator

Suspended Electromagnetic Separators are specifically designed to produce the most effective magnetic force available. The cooling system is engineered to allow the coil to operate at extremely high intensity while remaining relatively cool in its frame. Transformer oil in and around the parts of the coil windings keeps all components at the same temperature.

Magnet Drum Separator

Magnetic Drum Separators are ideal for processing operations where granular or pulverized materials (such as chemicals, tobacco, food, grains, plastics, and rubber) are conveyed in closed chutes. Material is fed in through the top where a revolving cylinder carries it over a stationary magnet. The magnetic field attracts and holds tramp iron beyond the discharge of the cleaned product flow. Tramp iron is then released into a separate discharge as it leaves the magnetic field. The self-cleaning unit comes equipped with a standard direct drive motor or optional chain and sprocket drive and is available in a wide range of sizes. Available in single or double drum configurations depending on your application.

Chunma's manufacturing facility in Yongin, Korea

Chunma Corporation is capable of designing, manufacturing, and servicing high-quality magnetic separator equipment for various applications including mining and silica refining operations and purification processes.

Please contact us for inquiry regarding available models and custom production for your application.

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