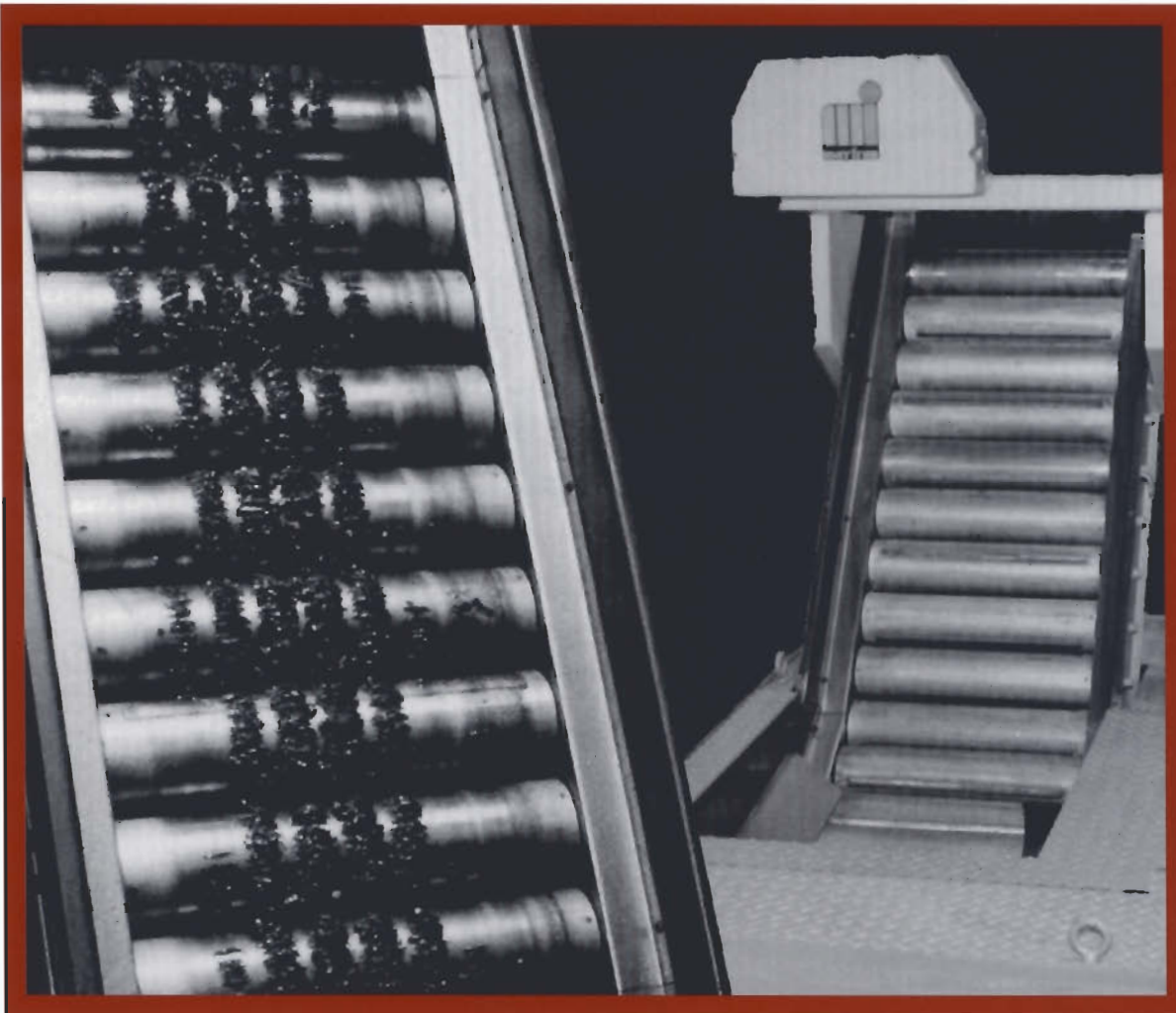


MAGNETIC ROLLER SEPARATOR CONVEYOR



Magnetic Roller Separator

The Conveyor for Positive Separation of Ferrous Fines from Coolant

The Mayfran Magnetic Roller Separator Conveyor* is a more efficient approach to separating and removing fines from coolant. It channels all coolant and suspended material through a powerful field of stationary magnets. Providing high capacity, friction-free conveying and maximum ferrous separation.

- Removes up to 99.9% of ferrous materials (by weight) from coolant.
- Provides extremely high conveying capacity.
- Virtually eliminates costly machine sump cleanings.
- Improves coolant life and quality.
- Requires less maintenance than conventional designs.



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SPECIFICATIONS

The Magnetic Roller Separator Conveyor features an innovative use of magnets, to provide dependable separation and removal of ferrous fines from coolant.

HOW IT OPERATES.

A series of stainless steel rollers with permanent magnetic cores runs the length of the unit. Each core consists of a stationary magnet, whose strength gradually diminishes in the direction of roller rotation.

Ferrous particles are magnetically attracted to the roller surfaces and are carried in the rotating direction. As the roller turns, the particles are transported from a strong to a weak magnetic field. At this point, the strong magnetic field of the next roller attracts the particles to it.

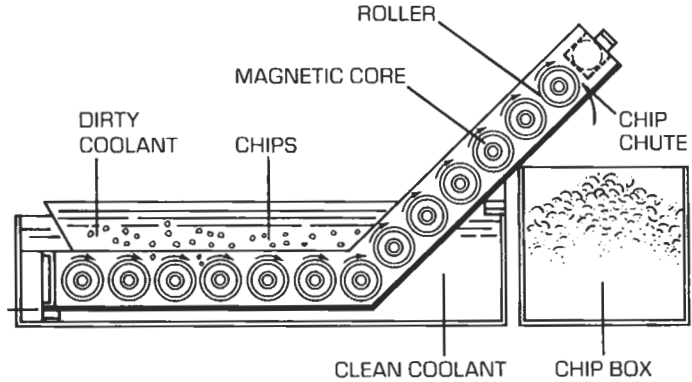
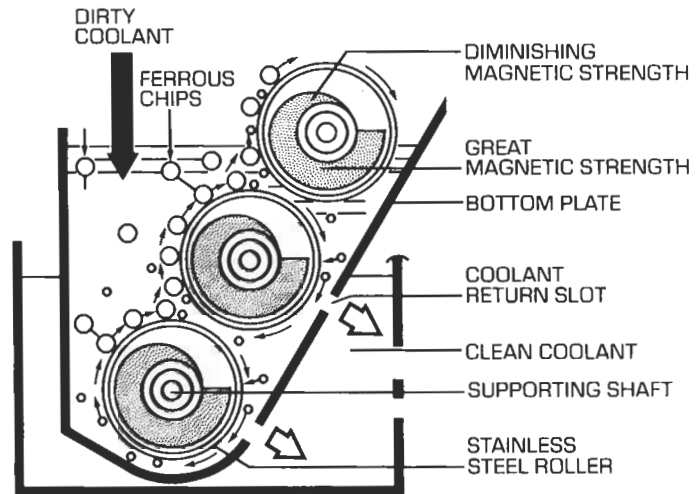
As this process is repeated, ferrous particles are conveyed the length of the unit and discharged.

EXCELLENT SEPARATION.

This unit is especially successful at separation because of the coolant flow pattern inherent in its design. The coolant is channeled through two areas of great magnetic strength - one at the top side of the rollers and one at the bottom side, directly over each coolant return slot.

The continuing progression of particles from one roller to another induces a tumbling action of the material. This action helps release any residual fluid that may be trapped by the particles themselves.

After the coolant passes through the magnetic fields, it's returned to the machine sump - up to 99.9% free of ferrous materials.



ROLLER OUTER DIAMETER	4 inches
CONVEYOR SPEED	2.5 to 25 fpm
CONVEYING CAPACITY	4,000 lbs/hr
COOLANT CAPACITY	20 gpm per roller, water soluble 10 gpm per roller, cutting oil
ANGLE OF INCLINE (IN DEGREES)	15,30,45,60,75 and 90

Note: Rollers are available in a variety of widths, to meet customer requirements. Specifications shown are for the 400mm width roller.

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