



**CONVEYORS FOR THE  
MACHINE TOOL INDUSTRY**

With an industry-leading array of chip and coolant management solutions for your machine tool operation, Mayfran offers systems that meet nearly any machining challenge. Our relationship with most major machine tool producers provides access to machine designs and an ability to quickly provide a tailored solution fit to your needs. Mayfran offers systems for both new equipment and aftermarket replacements and upgrades. We invite you to pursue the many options of our conveyors for the machine tool industry in this brochure or visit [www.Mayfran.com](http://www.Mayfran.com) for more information.

## The Hinge Belt Conveyor

*The "Standard of the Industry" for handling a variety of chips, borings and turnings.*

A general purpose chip conveyor for effective chip handling and removal

- Handles most types of chips and turnings
- Compact design fits almost any machine tool and coolant tank
- 3 different sizes available depending on the application
- 2-1/2" pitch Chip-Tote® conveyors are available for heavy-duty applications

Our Hinge Belt conveyors have the competitive edge

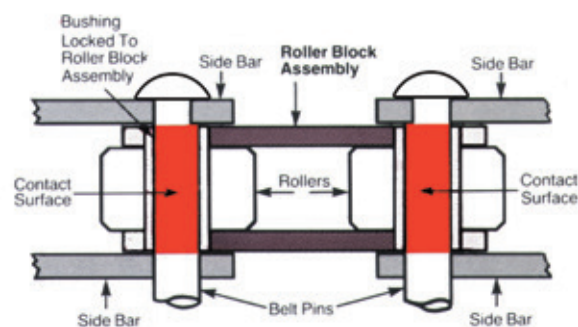
- Mayfran chain design has a large contact surface within the chain joint
- This unique design distributes joint pressure evenly thus reducing premature wear
- As shown by the illustration, the chain is separate from the belt
- The interlocking side wings provide a tight seal along each side of the belt to prevent material from lodging in the chain
- Wear is reduced with the bushings locked into the roller block assembly minimizing relative motion between bushings and pin
- Belt options include perforated pans for extra drainage or dimpled pans for a non-stick surface

If cleaner coolant is required, Mayfran recommends upgrading to a CleanSweep-RM® conveyor or a ConSep 2000® conveyor depending on the application.



### HOW IT WORKS

- Chips and coolant enter into the load area of the conveyor
- Large chips are carried by the hinge belt and elevated to the discharge hopper



## The CleanSweep-RM® Conveyor

The best general purpose chip conveyor available to integrate proven coolant cleaning technology with highly effective chip handling and removal.

- Handles most types of chips and turnings
- Increased machine uptime
- Reduced coolant tank maintenance
- Extended coolant, pump and tooling life
- Compact design to fit almost any machine tool and coolant tank
- Easy retrofit to any original chip conveyor
- Self-cleaning screen box cleans coolant to 250 micron nominal

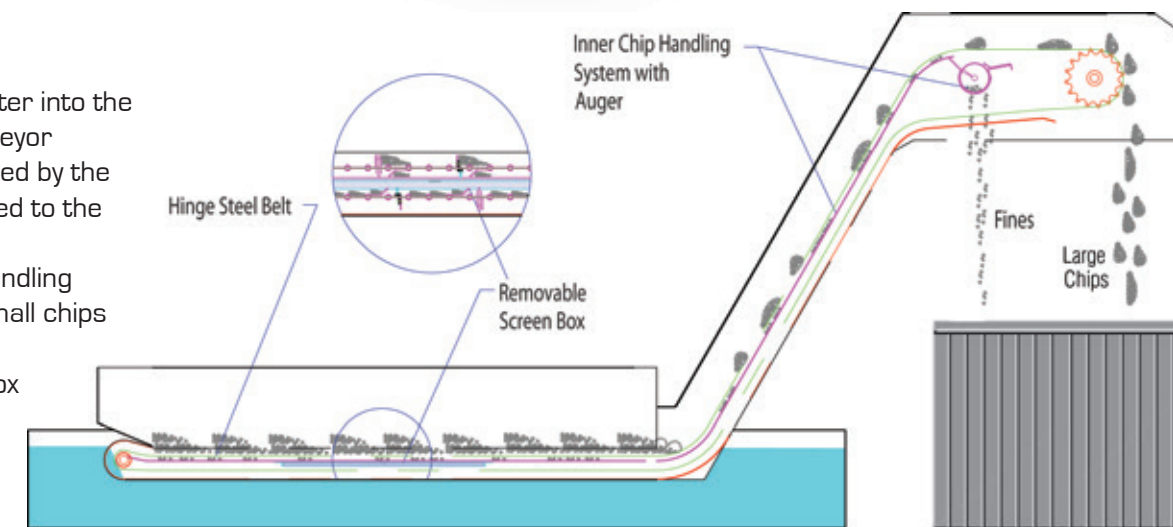


## CLEANSWEEP-RM®

*A Reduced Maintenance alternative to a basic hinge belt conveyor.*

### HOW IT WORKS

- Chips and coolant enter into the load area of the conveyor
- Large chips are carried by the hinge belt and elevated to the discharge hopper
- Internal inner chip handling system to remove small chips and fines
- Removable screen box cleans coolant



Patented

The reported payback period for the CleanSweep-RM® conveyor is within 1 year

- \* Reduced tank maintenance
- \* No chip basket maintenance



### The ConSep 2000® Conveyor

*Offers advanced chip removal and cleaning to manage a multitude of metal chip types including the more difficult to handle strings and turnings.*

- Handles most chip types and materials
- Unique design protects the filter drum
- Permanent self-cleaning filter media with backwash spray cleans coolant to 50 micron nominal

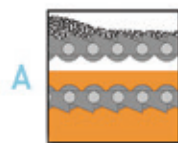


### The ConSep 2000® II Conveyor

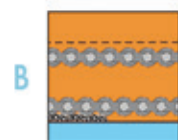
*The single belt version ConSep 2000 II offers an integrated filtration chip and coolant system.*

- Most types of chips and various materials are conveyed by a steel belt
- The steel belt prevents damage of the drum filter element
- Small chips and fines are handled through an internal chip handling system with an auger conveyor at the discharge
- Permanent self-cleaning filter media with backwash spray cleans coolant to 50 micron nominal

#### HOW IT WORKS



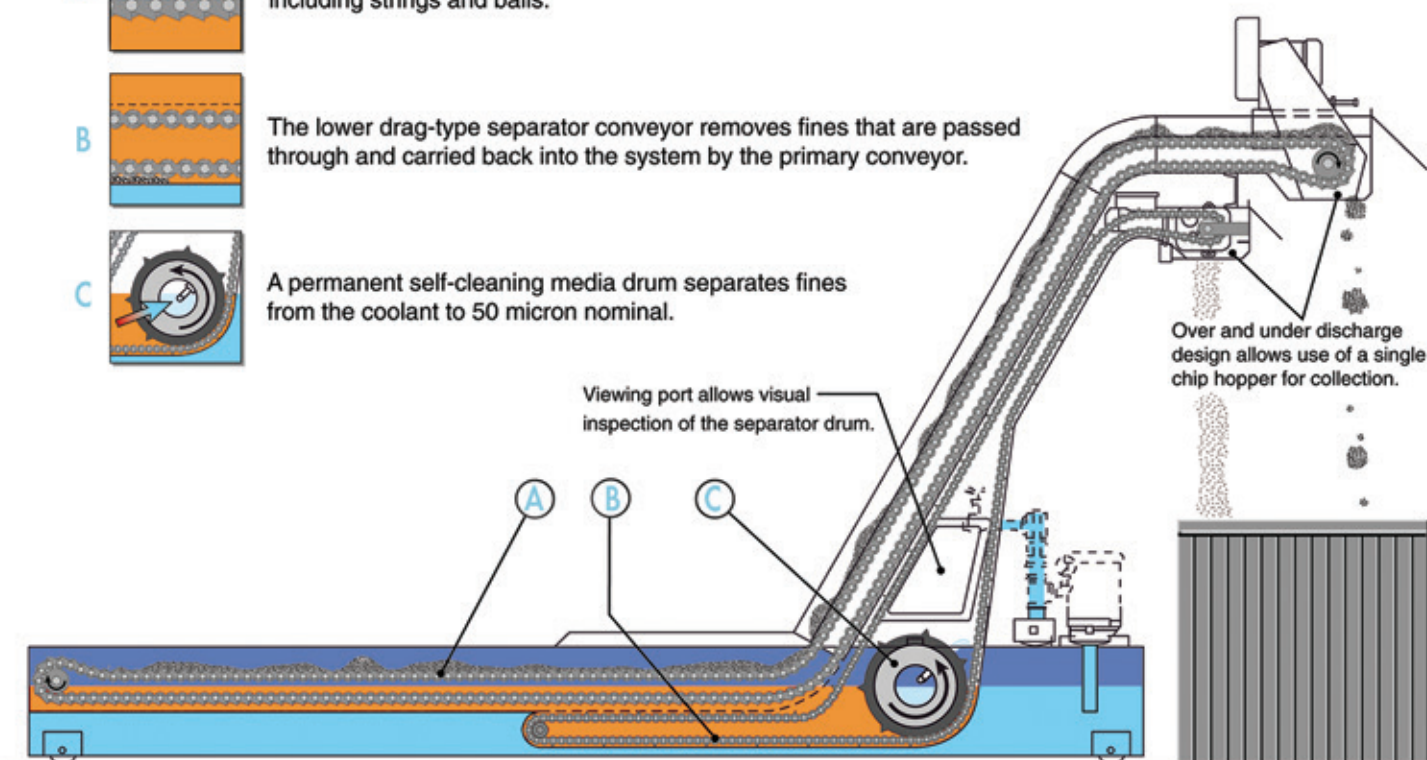
The primary conveyor removes all chip types and sizes including strings and balls.



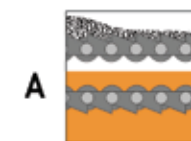
The lower drag-type separator conveyor removes fines that are passed through and carried back into the system by the primary conveyor.



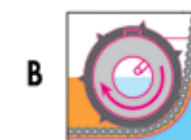
A permanent self-cleaning media drum separates fines from the coolant to 50 micron nominal.



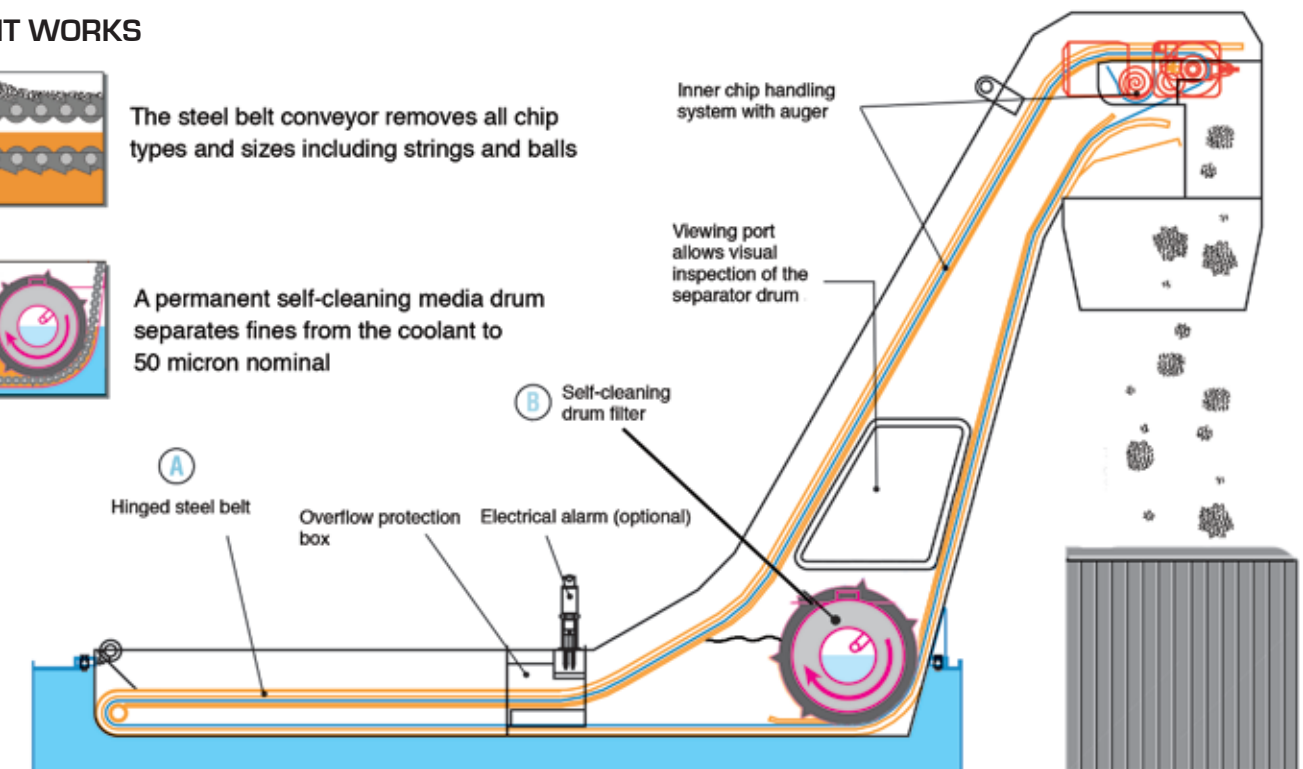
#### HOW IT WORKS



The steel belt conveyor removes all chip types and sizes including strings and balls



A permanent self-cleaning media drum separates fines from the coolant to 50 micron nominal



## MagSep<sup>®</sup> Magnetic Scraper Conveyor \*

*The conveyor that separates ferrous chips from coolant.*

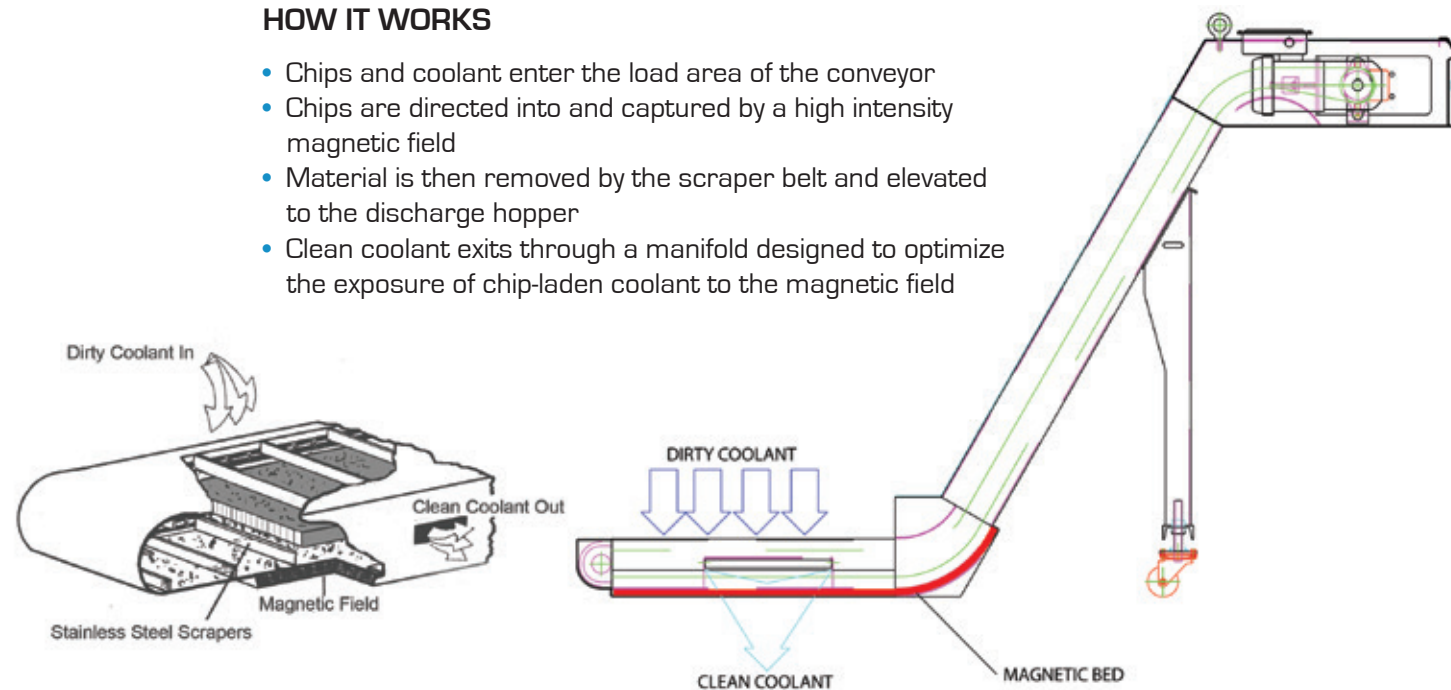
- Chips and fines effectively separated from the coolant
- Reduced coolant carry out
- Easy maintenance
- Ideal for dedicated cast and ductile iron applications
- Unlike other magnetic conveyors, the MagSep positively conveys ferrous and nonferrous particles



A magnetic conveyor with a unique design that combines a magnetic force with a scraper belt for positive separation of ferrous chips from coolant.

### HOW IT WORKS

- Chips and coolant enter the load area of the conveyor
- Chips are directed into and captured by a high intensity magnetic field
- Material is then removed by the scraper belt and elevated to the discharge hopper
- Clean coolant exits through a manifold designed to optimize the exposure of chip-laden coolant to the magnetic field

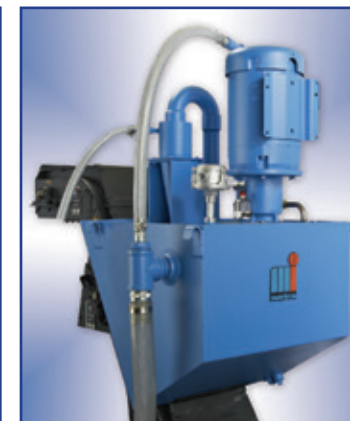


For dedicated cast or ductile iron applications, Mayfran recommends using an AT-Cleaner side-stream package in conjunction with the MagSep<sup>®</sup> magnetic scraper conveyor. The AT-Cleaner will help remove a high percentage of the sludge forming super-fines from the coolant tank.

*Mayfran can integrate all of these components into a single package, reducing floor space and complexity.*



AT Cleaner\*



High-Pressure Coolant System



Hard-Turn Package



Hydrostatic Paper Filter (HPF)

- Cyclonic separation with no disposable media
- 10 micron coolant cleanliness
- Use as a side stream to reduce PPM or to clean coolant for high pressure

- Fixed or variable flow or pressure
- Outstanding chip removal, improving part finish
- Incline mounted unit does not require additional floor space

- Hardened conveyor designs
- Extends conveyor life
- Recommended when the conveyor will handle hard or abrasive materials

- Deep bed gravity technology provides greater levels of filtration
- Ideal for grinding, honing, polishing, washing and composite applications

### Additional available accessories and options:

**Oil Skimmers and Oil Coalescers:** Eliminates tramp oils from coolant. Improves coolant performance.

**Coolant Chillers:** Maintains coolant temperatures. Reduces dimensional variations of work piece.

**Variable Speed Drive:** Adjust to minimum speed for sufficient chip removal. Reduces coolant losses.

**Plug and Run Packages:** Complete packages with coolant tank, controls, filters, pumps and hoses.

**Customized Conveyors:** Various belt pitches available. Higher discharge heights with discharge chutes.

**Others:** Coolant tanks, pump, electrical controls

### Other Mayfran Services Available:

- Preventive maintenance and inspection programs
- International service and support
- Turn-key packages
- Installation
- Start-up supervision
- Spare parts



ConSep 2000 Conveyor equipped with a Plug and Run Package.



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FRM 8553 3.2015  
PRINTED IN U.S.A.