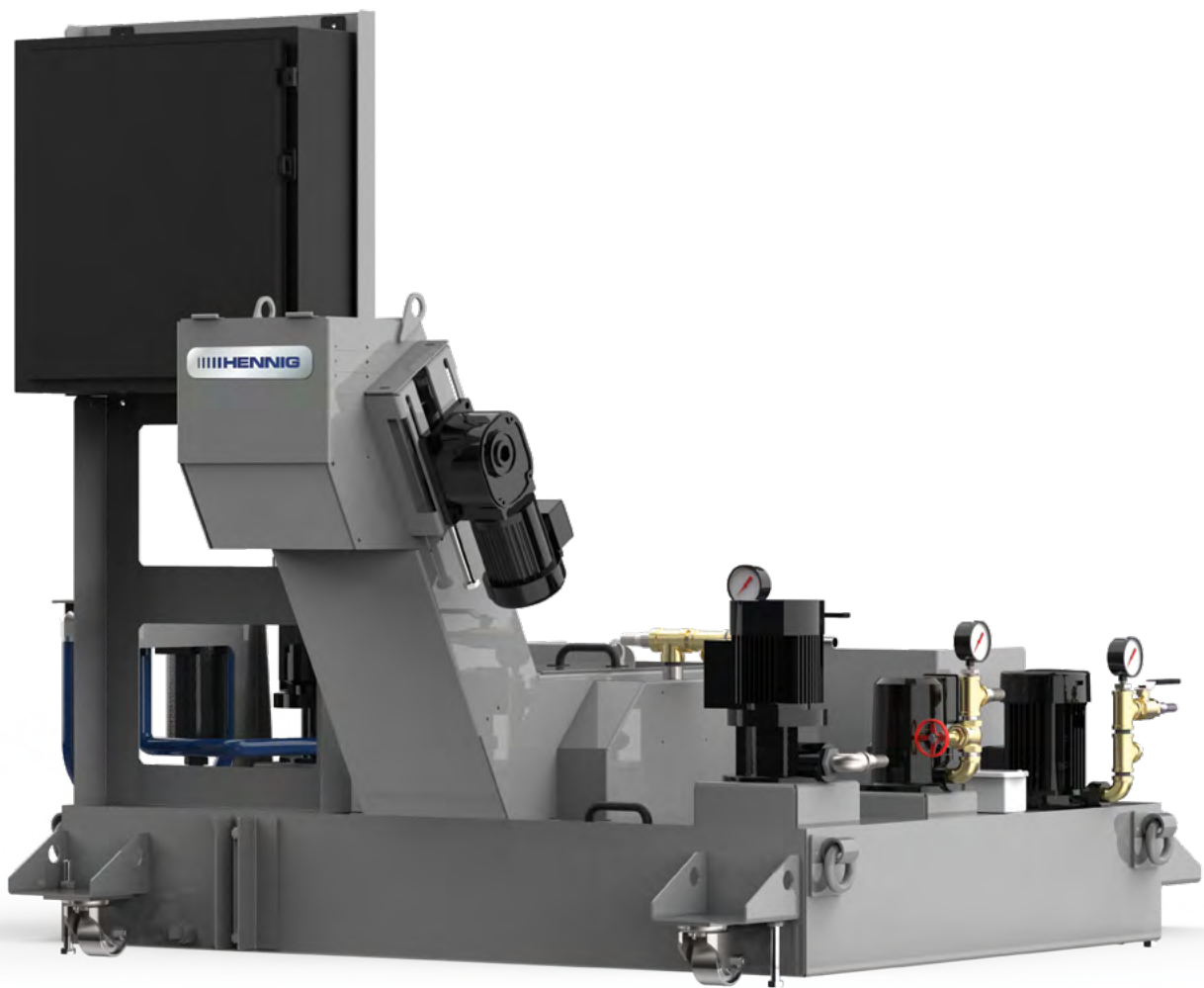


# CONVEYORS & FILTRATION

CHIP CONVEYORS | TURNKEY CHIP MANAGEMENT SYSTEMS | CONVEYOR NETWORKS  
CONVEYOR SPARE PARTS | COOLANT FILTRATION | COOLANT TANKS



**||| HENNIG®**

Making our customers successful.

[www.hennigworldwide.com](http://www.hennigworldwide.com)



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See pages 29-30 for a complete list of our worldwide locations and contact info.





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# FEATURES & OPTIONS

Our chip conveyors and disc filtration systems set the standard for removing chips and debris from machine coolant, improving the life of precision machines and the accuracy of output. They are supported worldwide with Hennig's global sales and support infrastructure, which includes manufacturing facilities and partnerships throughout the industrialized world.

Our worldwide network leads the industry in developing innovative chip conveyor technologies, offering a complete range of chip conveyor solutions tailored to particular machine types, performance requirements, and work area considerations. Our chip conveyors outperform expectations, even in the most demanding production environments, and they do it more efficiently and with less maintenance than other conveyor solutions.

## FEATURES

### Overload/jam protection

**Variable speed drive**  
0.8 m/min - 3.3 m/min

### Paint

textured blue, white, grey, black (standard)  
custom colors as required

### Incline angle

60° / 45° (standard), custom angles as required

### Low profile design

## OPTIONS

### Standard VFD or push-button control box

### Overhead torque limiter

**Custom coolant tanks & filtration**  
integrated or auxiliary

### Custom chutes

### Heavy-duty hardened rails and curves

### Air knife

for removing sticky chips from belt at the  
discharge end

### Wear resistant bottom frame


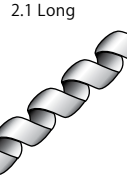


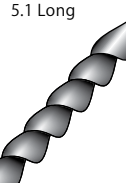






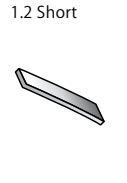









### On-site installation

### Casters



# CHIP FORM SPECIFICATIONS

## CHIP FORM SPECIFICATIONS (\*ACCORDING TO ISO 3685)

1. Ribbon	2. Tubular	3. Spiral	4. Washer-type Helical	5. Conical Helical	6. Arc	7. Elemental	8. Needle	9. Fines	10. Swarf, Sludge	11. Small parts, scrap
1.1 Long 	2.1 Long 	3.1 Flat 	4.1 Long 	5.1 Long 	6.1 Connected 					
1.2 Short 	2.2 Short 	3.2 Conical 	4.2 Short 	5.2 Short 	6.2 Loose 					
1.3 Snarled 	2.3 Snarled 		4.3 Snarled 	5.3 Snarled 						

## CONVEYOR SELECTION GUIDE BY CHIP FORM

CHIP TYPE	HINGE	SCRAPER	MAGNETIC*	PURE FLOW (HINGE)	PURE FLOW (SCRAPER)	CDF (HINGE)	CDF (SCRAPER)	AUGER	MOBILE
1.1 Ribbon (long)	●	●	●	●	●	●	●	●	Mobile conveyors use different belts depending on your application.
1.2 Ribbon (short)	●	●	●	●	●	●	●	●	
1.3 Ribbon (snarled)	●	●	●	●	●	●	●	●	
2.1 Tubular (long)	●	●	●	●	●	●	●	●	To find out if a mobile conveyor is right for your application, please contact us.
2.2 Tubular (short)	●	●	●	●	●	●	●	●	
2.3 Tubular (snarled)	●	●	●	●	●	●	●	●	
3.1 Spiral (flat)	●	●	●	●	●	●	●	●	
3.2 Spiral (conical)	●	●	●	●	●	●	●	●	
4.1 Washer Type Helical (long)	●	●	●	●	●	●	●	●	
4.2 Washer Type Helical (short)	●	●	●	●	●	●	●	●	
4.3 Washer Type Helical (snarled)	●	●	●	●	●	●	●	●	
5.1 Conical Helical (long)	●	●	●	●	●	●	●	●	
5.2 Conical Helical (short)	●	●	●	●	●	●	●	●	
5.3 Conical Helical (snarled)	●	●	●	●	●	●	●	●	
6.1 Arc (connected)	●	●	●	●	●	●	●	●	
6.2 Arc (loose)	●	●	●	●	●	●	●	●	
7 Elemental	●	●	●	●	●	●	●	●	
8 Needle	●	●	●	●	●	●	●	●	
9 Fines	●	●	●	●	●	●	●	●	
10 Swarf / Sludge	●	●	●	●	●	●	●	●	
11 Small Parts / Scrap	●	●	●	●	●	●	●	●	

● good ● can be used in certain applications ● not recommended

\*can only be used with ferrous material

# CONVEYOR TYPES



**HINGE BELT** page 6



**SCRAPER BELT** page 6



**MAGNETIC** page 7



**CHIP DISC FILTRATION** page 7



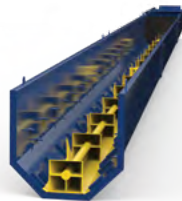
**PUREFLOW** page 8



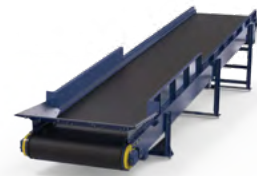
**MOBILE** page 9



**AUGER** page 9



**PUSH-PULL BAR** page 10



**BELT-TYPE** page 10



**CUSTOM / TURNKEY / NETWORKS**  
page 11-12



## HINGE (link, chain)

A proven conveyor solution for a variety of materials, chip types, and chip loads. Hinge belts, the most common conveyor type, can be modified to handle more troublesome waste like tough scrap and heavy parts.

### options

**BELT DESIGN** plain, perforated, dimpled, combo

**BELT PITCHES " (MM)** 1.5 (38.1), 2.5 (63.0), 4.0 (101.6), 6.0 (152.4)

**CLEATS** serrated, flat, inverted "v", custom

**INTEGRATED COOLANT TANK**

**COOLANT FILTRATION**

**HEAVY-DUTY IMPACT PLATES** for heavy scrap or parts

**TOP HAT COVER** for bundled chips

**HINGE KIT** service / replacement parts (see pages 11-12)



## SCRAPER (drag, flight)

An ideal solution for fine chips and swarf, the scraper belt moves in reverse, collecting and dragging chips up the incline to the discharge end. Standard scraper paddles can be customized with wipers to the application.

### options

**PADDLES** standard or custom angle

**WIPERS**

**INTEGRATED COOLANT TANK**

**COOLANT FILTRATION**

**SOLID DRUM MAGNET** for floating, ferrous chips when using coolant

**WEARING RESISTANT CONSTRUCTION**  
with hardened rails and curves / bottom frame

**SCRAPER KIT** service / replacement parts (see pages 11-12)



# CONVEYORS TYPES

## MAGNETIC

Intended for ferrous material applications ranging from 100 Micron to Heavy Press off fall. Ideal for cast iron chips, steel chips, fasteners, stamping scrap and part conveyance. Our closed oil system lubricates all internal parts automatically, resulting in no maintenance, no oil refills and no manually lubricating bearings or bushings. No external moving parts makes the magnetic conveyor the safest conveyor while eliminating pinch points.

### features

#### CLOSED OIL SYSTEM

Comes with an environmentally safe oil prefilled. Never needs to be refilled.

#### HEAVY DUTY AUTOMATIC TAKE UP

Heavy duty die springs on the take-up shaft keep a consistent even pressure on the internal solid pin chain system and do not require regular maintenance

#### HIGH PERFORMANCE UHMW Magnets

Ceramic and optional Rare Earth Magnet assemblies are wrapped in UHMW extending the life of the slider bed and the conveyor

### options

**DE-MAGNETIZER** to remove any residual magnetism from parts

**RIGIDIZED DIMPLED STAINLESS STEEL SLIDER BED** for flat oily parts

**SLIDERBED** Manganese impact plate or full length manganese

**COOLANT TANKS**



## CHIP DISC FILTRATION (CDF)

The patented Chip Disc Filtration (CDF) technology achieves high levels of filtration without two separate belts. Our patented disc design provides a direct coolant flow path into the coolant reservoir and can filter a wide variety of materials, both in water and oil based coolant, down to 25 microns nominal.

### options

#### SOLID ROTATING MAGNETIC DRUM

for collecting cast iron sludge/swarf

**BELT TYPE** hinge or scraper belt

**FILTER DISC DIAMETER** 10", 12", 16"

#### SINGLE OR MULTIPLE DISCS

depending on coolant flow rate

See page 13-14 for more information.

For additional filtration options, see page 15-16.





## PURE FLOW

A self-cleaning filtration system beyond the standard hinge belt system. Designed for water based coolants, the Pure Flow system equips machines requiring medium continuous filtration at 250 or 500 microns. Pure Flow is easily implemented, working with existing coolant tanks supplied by OEMs.

### features

#### SELF CLEANING FILTER BOXES

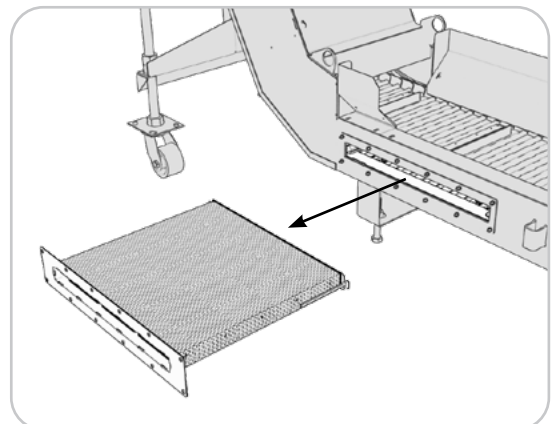
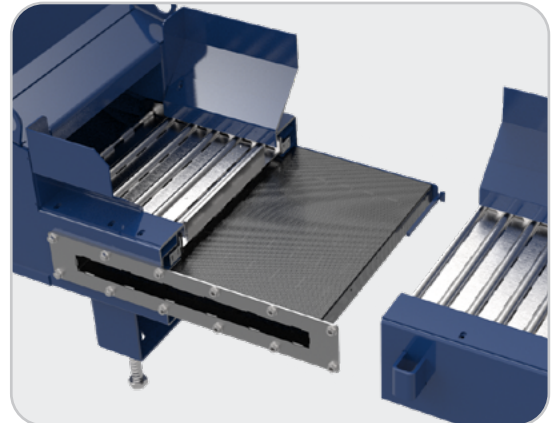
Ditch the filter bags with the self-cleaning filter box.

#### HINGE BELT DESIGN

### options

#### 250 or 500 MICRON FILTRATION

#### AIR KNIFE



The filter box is easy to remove for quick and easy cleaning.



# CONVEYOR TYPES

## AUGER (screw)

Ideal for limited space applications, the auger system can be installed in the machine tool or directly into the foundation / slab. The addition of a mobile (transfer) conveyor can be used to roll around the shop and assist with chip removal from high production auger fed systems.

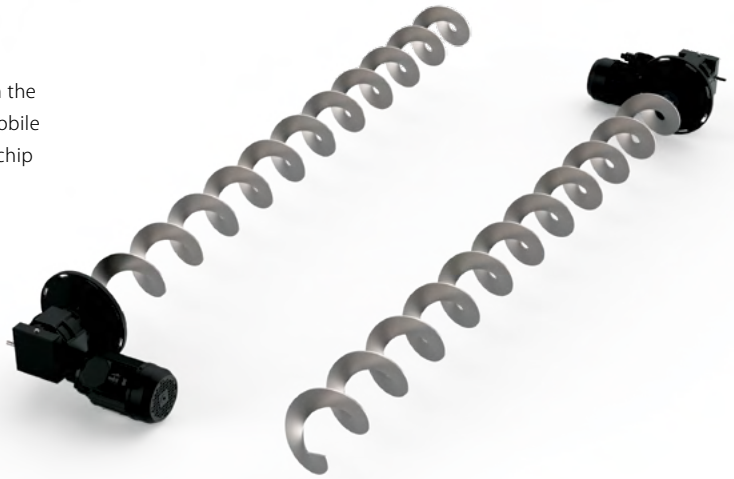
### options

**TORQUE LIMITER**

**INSTALLATION** in auger or directly in machine frame

**SCREW** centerless auger (standard)

**MOBILE (TRANSFER) SETUP** See below for details



## MOBILE (auger-assisting, portable)

The mobile conveyor provides machine operators with a convenient way to lift chips into full size barrel or hopper-high receptacles. It reduces machine clean-out effort and eliminates back related fatigue. The portable conveyor can be used for periodic clean-out of multiple machines or dedicated full time to any machine generating high volumes of chips. Position the conveyor under the chip chute of any auger chip flume, plug it in and turn it on. Coolant that collects in the conveyor will be carried out by the chips so the conveyor never requires draining. Variable speed drive (VFD) is standard.

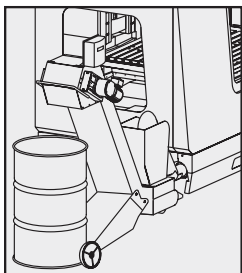
### options

**ADJUSTABLE CHIP CHUTE**

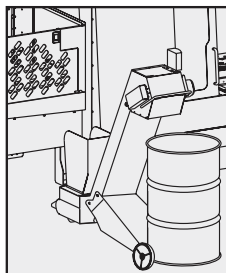
The opening of the chip hopper may be oriented directly toward the tail section of the conveyor, to the right, or to the left, by unscrewing the four bolts holding the hopper in place, removing it, rotating it to the desired position and bolting it back in place.



#### Adjustable Chip Chute Orientation



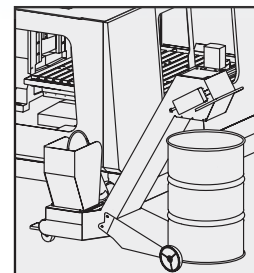
A. Toward tail section



B. With APCQ



C. To Left



D. To Right

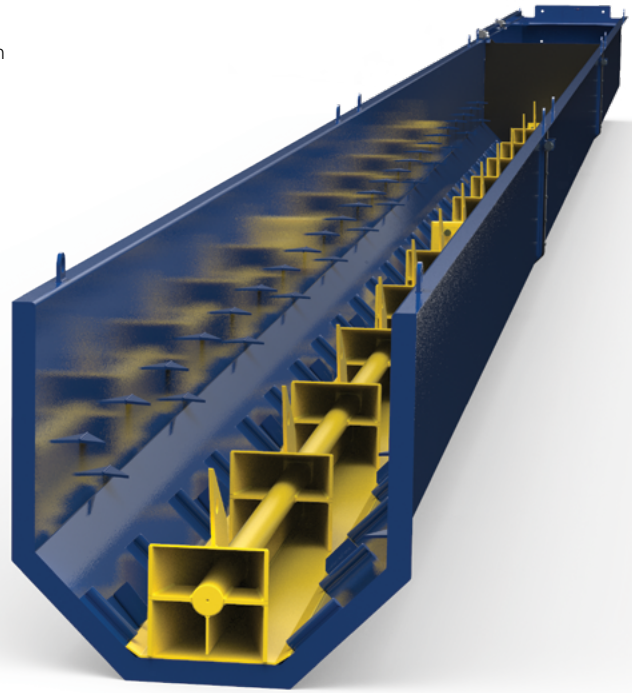
## PUSH-PULL BAR (ram, bar)

Used to transport all types of swarf in big quantities, the push-bar system can be installed under or above the floor to suit your application.

### options

**PREFILTRATION GRID** for coolant discharge

**WEARING PLATE** with hardened bottom frame



## BELT TYPE

The universal transport solution for applications without any liquids. The belt conveyor allows the transport of parts and scraps in metal, plastic, and cardboard up to 15 kg / linear meter. It is suitable to solve extraction problems (pressure forming parts, punching scraps and trimmings) or level change. The conveyor transport belt is oil and grease resistant.

### options

**PVC OR PUR BELT** up to 80°C

**CUSTOM BELT FOR HIGH TEMPERATURES** over 80°C

**WITH OR WITHOUT CLEATS**

**OIL / GREASE RESISTANT BELTS**

**INTEGRATED DRIVE MECHANISM**

**WIPERS**



# CUSTOM CONVEYORS & NETWORKS

## CUSTOM & TURNKEY SYSTEMS

Unique work environments. Specialized machine configurations. Varying chip volumes. These are just a few of the special requirements that indicate the need for a custom chip conveyor solution. Hennig engineers can create modified or special solutions to meet the needs of virtually any application; for example, dust and gas removal during dry machining (pictured below), or part and scrap removal (pictured right).

If your conveyor system requires integration in the machine controls or automation beyond our standard control system, we can build a tailor-made solution that does the job. If you're looking to further process your chips for shredding or recycling, we can integrate any of the technology required.



## options

**SUCTION DEVICE** for fumes, mist, and dust

**CHIP SHREDDER**

**SWARF CENTRIFUGE**

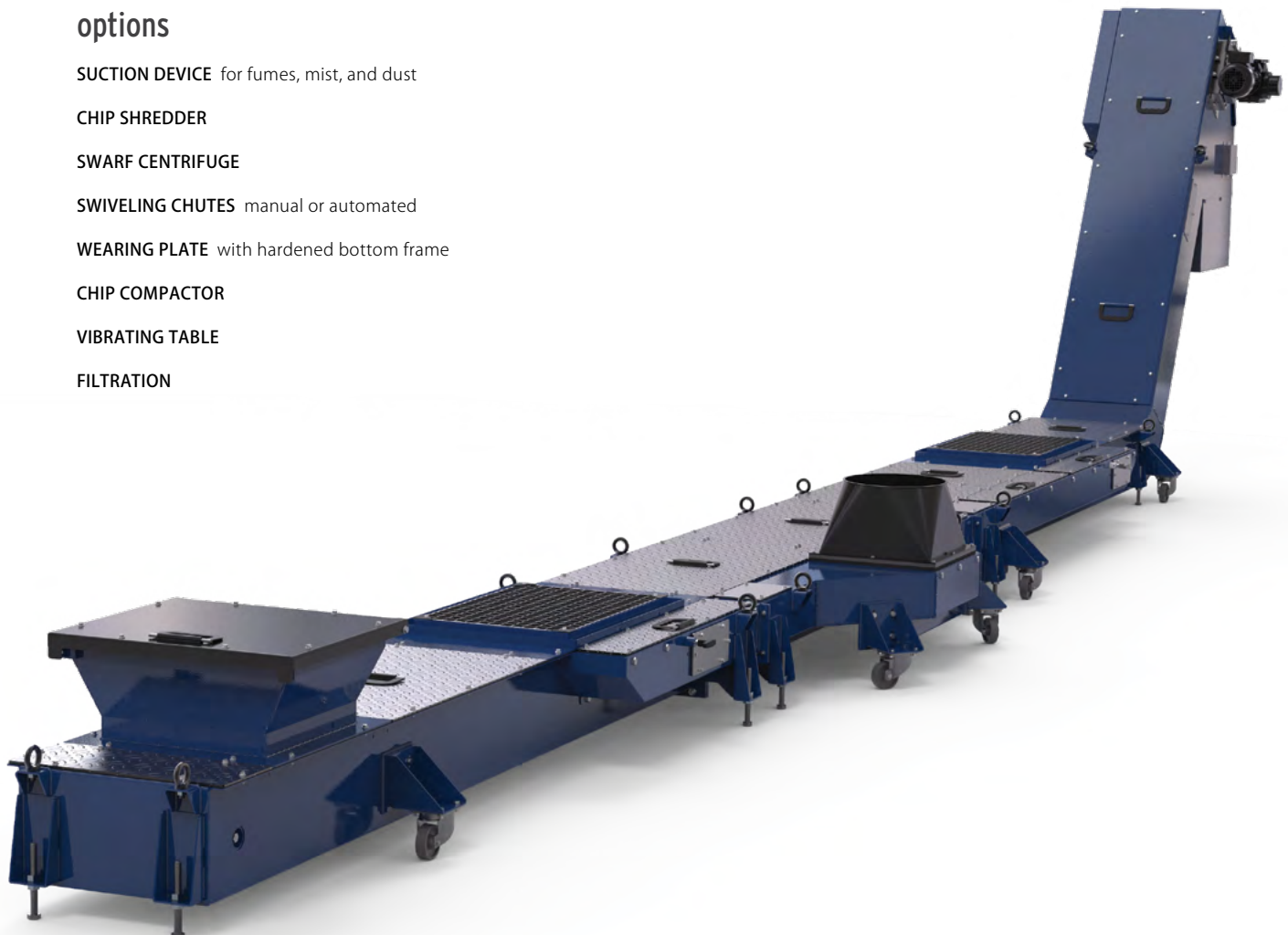
**SWIVELING CHUTES** manual or automated

**WEARING PLATE** with hardened bottom frame

**CHIP COMPACTOR**

**VIBRATING TABLE**

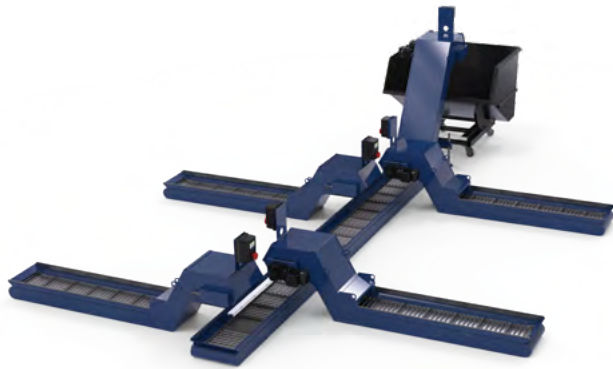
**FILTRATION**





## CONVEYOR NETWORKS

Fully automate the waste removal in your facility with integrated coolant tanks and conveyor networks. For high-volume manufacturers, Hennig's integrated systems can automate the removal of chips on one or all of the machine tools in the shop. This system allows the user to spend more time manufacturing and less time sweeping and moving chips.



### RIGHT

An integrated conveyor network. Smaller conveyors from the machining centers discharge onto the main exit conveyor for efficient chip removal from multiple machines.

### BOTTOM LEFT

Adjustable chip chutes can be positioned at multiple discharge angles.

### BOTTOM RIGHT

Conveyors move chips from multiple machining centers onto one integrated conveyor for easy and efficient chip removal.



# CONVEYOR SERVICE & SPARE PARTS

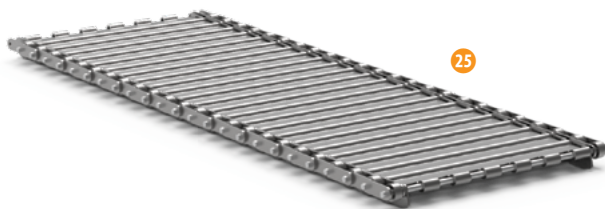
When your conveyor needs service or repair, we have parts in stock to get your conveyor up and running, and also the skilled personnel to repair or replace the damaged or worn parts.

Conveyor belts, drive motors, and other parts can get damaged, worn, or just get old. Before investing in an entirely new system, check with us to see if your existing system can be repaired.

CONVEYOR PARTS		BELTS / BELT KITS	
1	Front Chain Guard	12	Drive Chain
2	Torque Limiter Assembly	13	Flip Lid
3	Inside Chain Guard	14	Gear Motor Sprocket
4	Take-Up Bearing	15	Gear Motor
5	Belt Sprocket	16	Adjustable Supports
6	LH Inner Guard	20	Idler Shaft Assembly (if provided originally)
7	RH Inner Guard	22	Control Box (VFD)
8	Torque Limiter Key / Direct Drive Key	21	Motor Bracket
9	Belt Sprocket Key	23	Motor Cover
10	Drive Shaft	24	Caster Assembly (option)
11	Bearing Cover		
		25	Hinge Belt (whole belt replacement)
		17	Hinge Kit (standard)
		18	Hinge Kit (with plain cleat)
		19	Hinge Kit (with serrated cleat)
		26	Scraper Belt (whole belt replacement)
		27	Scraper Blade Kit
		28	Poly Scraper Blade Kit

To order spare parts, simply provide us with the Hennig No., Serial No., and Customer No. found on your conveyor tag (typically found on either side of the discharge head), and the parts you need to replace from the list above.

Look for this tag on your conveyor system for the reference numbers





## OVERHEAD (CHAIN) DRIVE



## DIRECT DRIVE



# CHIP DISC FILTRATION (CDF)

## COOLANT MANAGEMENT. SIMPLIFIED.

The patented Chip Disc Filtration (CDF) technology achieves high levels of filtration without two separate belts. Our patented disc design provides a direct coolant flow path into the coolant reservoir and can filter a wide variety of materials, both in water and oil based coolant, down to 25 microns nominal.

This affordable, versatile approach to chip removal is Hennig designed and patent protected. It is the most simple approach to coolant filtration in the market today. The Hennig CDF system is simple by design, and can be used with a scraper type belt or a hinge belt.

## CAST IRON FILTRATION. MADE EASY.

For the notoriously difficult cast iron applications, the addition of a solid rotating magnetic drum can be incorporated for efficient removal of floating chips, fines and sludge.

### ONE BELT SYSTEM FOR ALL CHIP TYPES

Unlike many nylon mesh drum systems, CDF technology does not need two belt systems to handle stringy chips, and can be used with hinge or scraper belts.

### CONTINUOUS SELF-CLEANING OPERATION

Continuous spraying of filtered coolant against the stainless steel media removes fines & chips. No outside source such as air or steam is used.

### PATENTED DISC FILTRATION DESIGN

Hennig's innovative design provides a direct coolant flow path into the coolant tank reservoir, and filters a wide variety of materials both in water and oil based coolants.

### STAINLESS STEEL MEDIA

Handles momentary or continuous heavy chip loads from 25-120 microns nominal, which can be a problem with nylon mesh, drum filters.

## options

**BELT TYPE** can be used with scraper belt or hinge belt

**FILTER DISC DIAMETER** 10" (254mm), 12" (305mm), 16" (406 mm)

**SINGLE OR MULTIPLE DISCS** depending on coolant flow rate

**SOLID ROTATING MAGNETIC DRUM** for collecting cast iron sludge/swarf

**CARTRIDGE OR CYCLONIC FILTERS** for filtration down to 10 microns

**AIR KNIFE** for removing sticky chips from belt

**SLUDGE POT** for easy sludge/swarf disposal

## features

**1 MAIN FLOOD COOLANT PUMPS**

**2 HIGH PRESSURE PUMP** 300-1000 PSI (21-69 Bar)

**3 BACKWASH CDF PUMP**

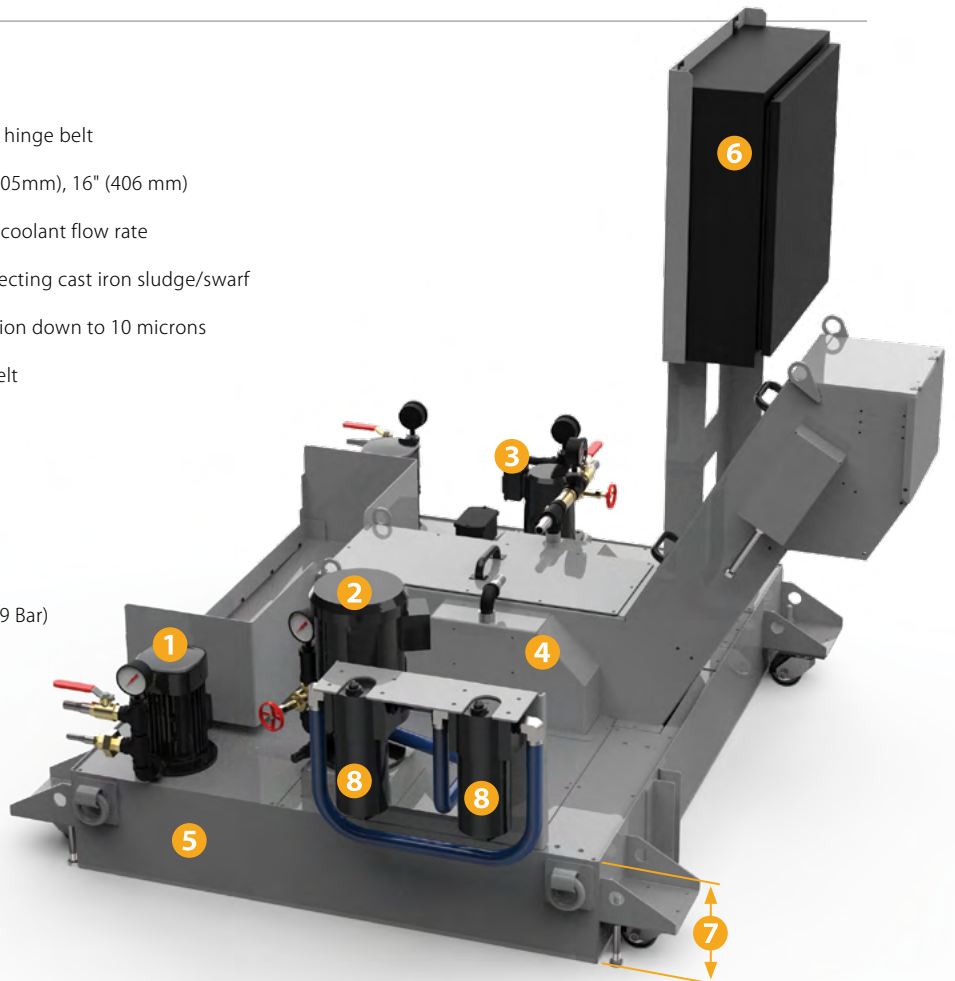
**4 DISC ACCESS COVER PANELS**

**5 COOLANT TANK**

**6 CONTROL BOX**  
shown with HMI controls

**7 LOW INLET HEIGHT**

**8 ADDITIONAL FILTRATION**  
see page 15-16 for filtration options



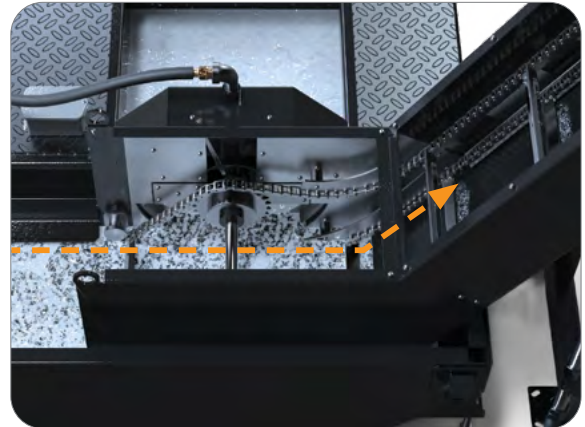
## HOW IT WORKS

### 1 coarse chip removal

#### WITH HINGE OR SCRAPER BELT

The belt (hinge or scraper) collects larger chips and particles for discharge into the chip hopper.

Removing coarse chips before they reach disc filter keeps them from bundling and jamming the system, which fosters extremely efficient fine particle filtration.



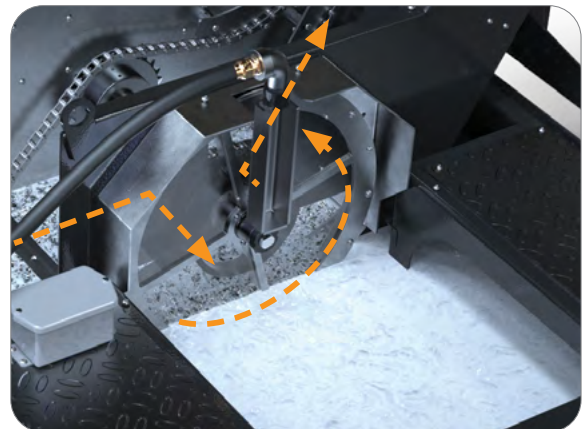
### 2 fine particle filtration

#### FILTERING COOLANT

Small particles that escape the belt naturally migrate with the coolant flow to the rotating disc filter. There, particles down to 25 microns are collected and the cleaned coolant flows back into your tank.

#### REMOVING PARTICLES

The collected particles rotate with the disc filter and are lifted out of the coolant, towards the backwash spray. There, the particles are blasted onto the belt with a backwash spray and removed along with the coarse chips.

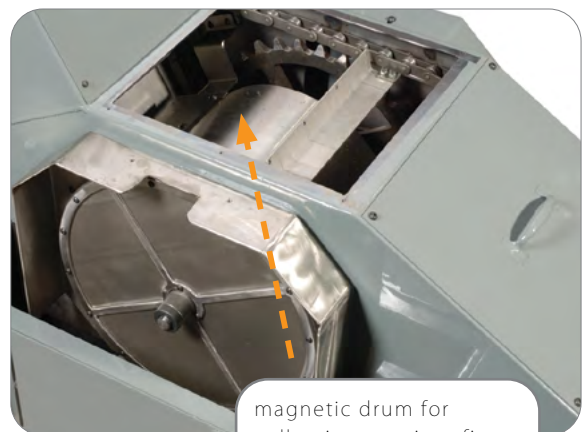


### 3 cast iron micro-filtration

#### COLLECTING & DISCARDING CAST IRON FINES

If you're looking to filter cast iron fines, the addition of a solid rotating magnetic drum allows for cast iron fines to be collected and removed from the coolant.

When enough particles have collected on the magnetic drum to form a heavy sludge, the sludge drops onto the dry conveyor incline and is discarded along with the coarse chips and particles that have been collected on the disc filter into the chip hopper.



# PORTABLE SLUDGE SUCKER

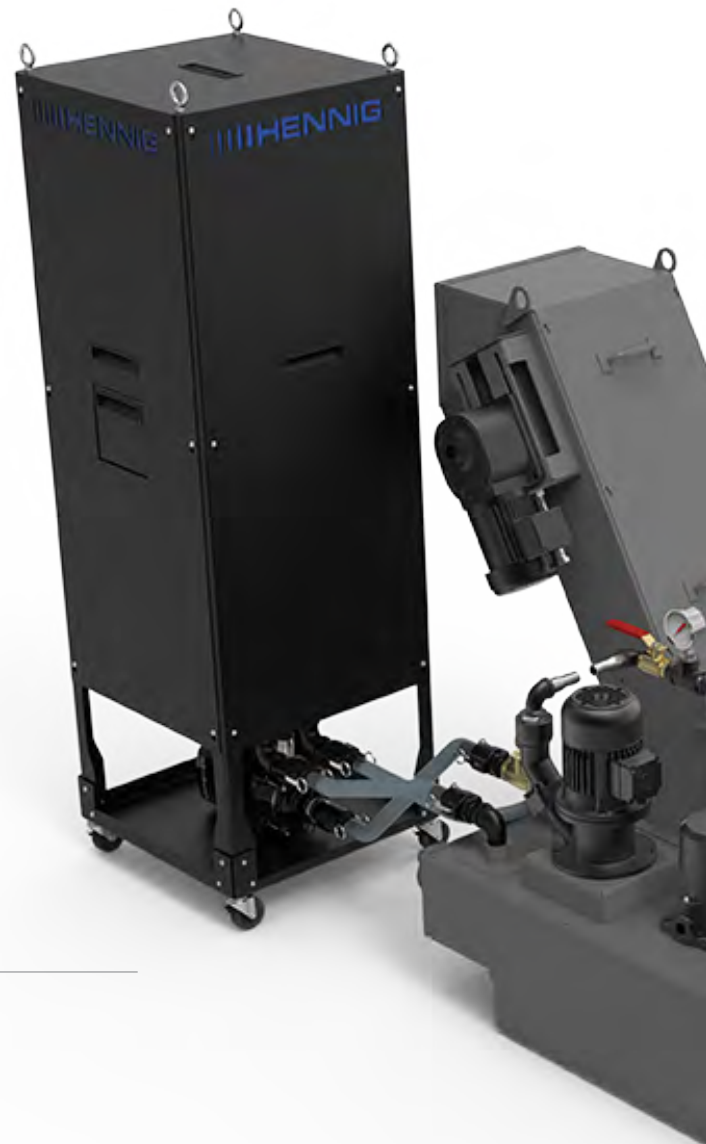
## THERE'S AN EASIER WAY TO KEEP YOUR COOLANT CLEAN

**While typical filtration systems are tied to your machine, the Portable Sludge Sucker allows you to move your filtration system from machine to machine across your shop.**

Some manufacturers have chip management systems that require filtration, however, their conveyor systems aren't able to complete this task with their current setup. Hennig designed and manufactured a mobile filtration system that allows the customer to properly filter and maintain their coolant without having to purchase or install an entirely new system.

Your coolant traditionally needs to be changed every 6-8 weeks, taking your machine down for the day. The mobile filtration system allows you to wait 3-6 months before having to clean out your coolant, keeping your team focused on making chips instead of finding ways to get them out of your coolant.

We recommend the Portable Sludge Sucker for end-users, distributors, and OEMs looking for a longer span of machine service. Its minimal service can be used with multiple machines. If your system accumulates 500 micron or smaller particles with medium and high-level filtered conveyor systems, the Portable Sludge Sucker is the perfect way to keep your machines clean.



## FILTRATION LEVEL / TECH SPECS

- 90% of 10  $\mu$ m filtration with cyclonic filtration system
- Screen at inlet hose to ensure larger chips do not migrate into the PSS system
- Magnet on inlet hose to position in multiple locations of dirty tank
- Exit/clean hose to be located on opposite side of inlet to cycle coolant throughout system

## APPLICATIONS

- Systems that accumulate 500 micron or smaller particulates
- Normally medium and high-level filtrated conveyor systems
- End User/Distributor/OEM that is looking for longer spans of machine service

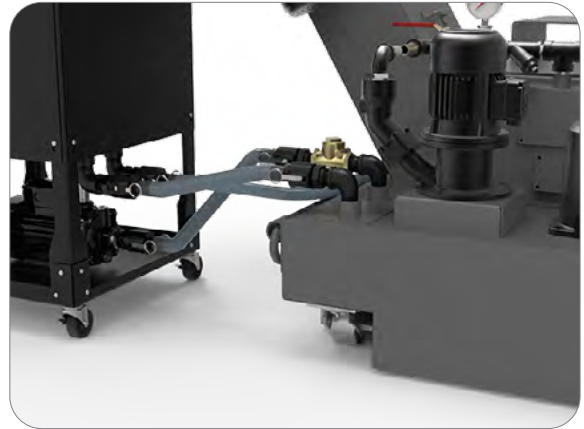
## FEATURES & BENEFITS

- 120V power
- Easy to clean out sludge pot
- 2-4 days to clean a system and can be moved to the next machine
- Minimal service and can be used with multiple machines

## HOW IT WORKS

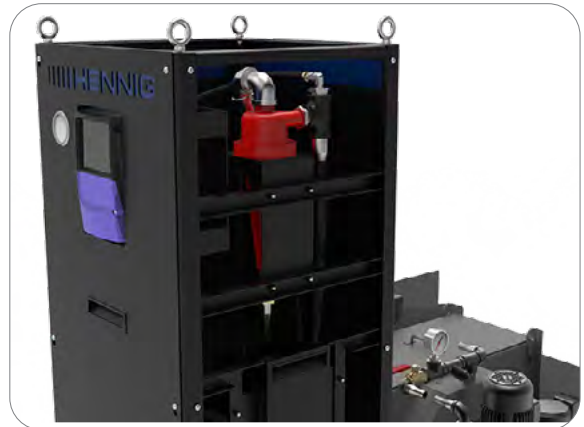
### 1 Low Pressure, Low Flow Pump

Using a low pressure low flow pump, the Portable Sludge Sucker flows your dirty coolant into the system. The screen at the inlet hose ensures larger chips aren't able to migrate into the system. The magnet on the inlet hose allows you to position the device to position in multiple locations of the dirty tank easily.



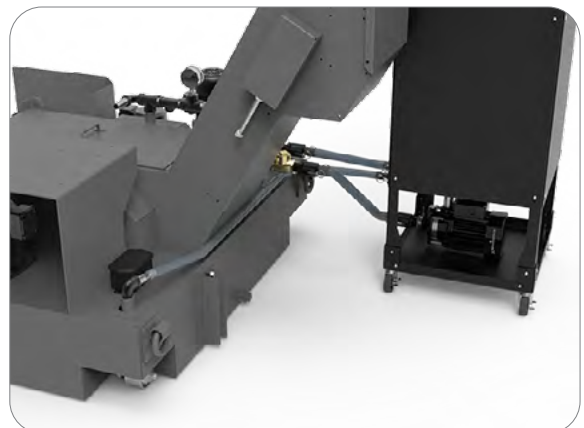
### 2 The Cyclonic Filtration System

The 90% of 10  $\mu$  m filtration with the cyclonic filtration system removes excess chips and smaller particles. It's equipped with a pressure gauge to ensure the system is running properly.



### 3 Clean Coolant

The clean coolant is flowed back into the machine. The exit (clean) hose is located on the opposite side of the inlet to cycle coolant throughout the system.





## ADDITIONAL FILTRATION OPTIONS

### custom coolant filtration systems

Our custom filtration systems generally include replaceable cartridge or bag filter elements and a replaceable filters . Continuous optimum performance is assured by configuring each filtration system according to the precise requirements of each application.



### CARTRIDGE FILTERS

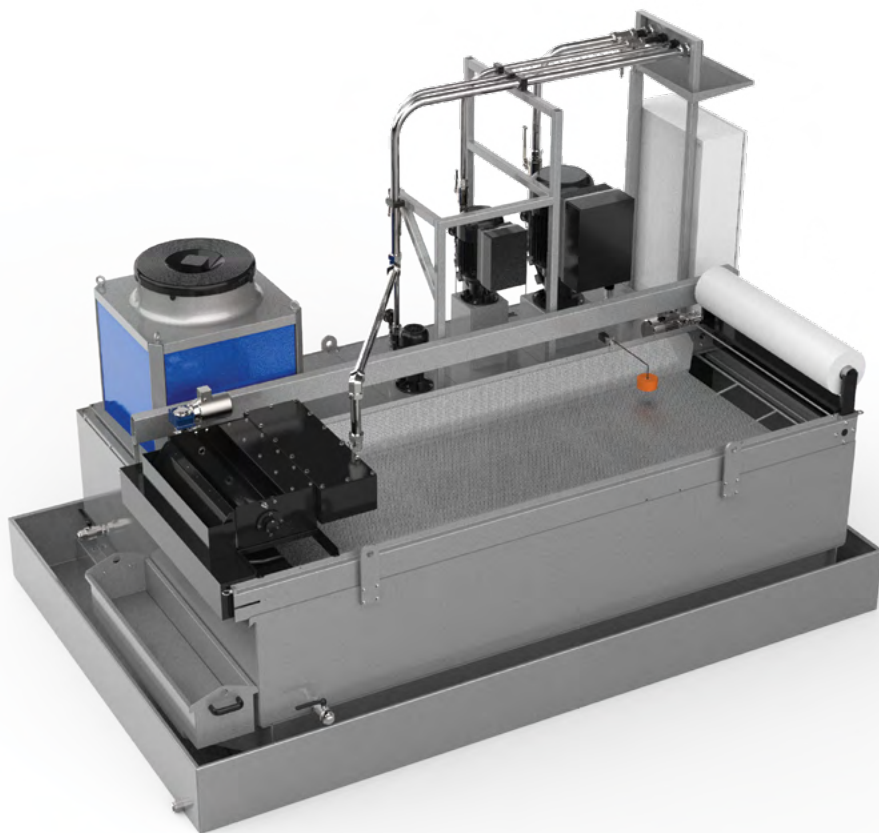
An innovative alternative to conventional high pressure and reverse flow filters. Cartridge filters remove ingressed contamination before it flows downstream to sensitive components. They block pump-generated debris before it gets to servo or proportional valves. There is no better high pressure filter available today for durability and performance.



### BAG FILTERS

Unfiltered liquid enters the housing above the bag and passes down through them. Solids are contained inside the bag, where they're easily and completely removed when the unit is serviced. Fluid bypass is prevented because the outside diameter of the filter bag seals radially against the housing inside diameter. A single cover gasket is used to seal the opening, and covers can be installed and removed without tools.





## PAPER FILTRATION BELT

Paper filtration systems are designed to cleanse different types of liquids (water, emulsions, aqueous solutions) of polluting solid particles. These filters are also used in markets others than those of machine tools (chemistry, food, painting, petrochemistry, glass, industrial washing machines).

Several models of filtration are possible with outputs from 30 to 400 L/mn for soluble oil and respectively from 15 to 200 L/mn for oil.



## CYCLONIC FILTERS

**NO WASTE. NO FILTRATION MEDIA. NO MAINTENANCE.**

A waste free coolant filtration system which achieves filtration through centrifugal force, eliminating the need for disposable paper or cartridge filters.

- Can remove 90% of 10  $\mu$ m sludge for water based coolant.
- No bubbles or foam is produced.
- Contaminants are concentrated in the sludge pot, and once removed they cannot return to the coolant tank.

# COOLANT TANKS

## CUSTOM ENGINEERED. MADE TO ORDER.

Using integrated or auxiliary tanks, coolant is quickly cleaned and recycled during the machining process, resulting in fewer interruptions and less downtime.

Our tanks are made from heavy gauge steel to provide leak-free service in harsh shop environments. Removable cover plates allow easy access to the tank's interior for quick, easy maintenance. Liquid level sight gages are a standard feature, and baffles, chip baskets, and removable screens can also be added.

### options

AUXILIARY OR INTEGRATED TANKS

REMOVABLE COVER PLATES

LIQUID LEVEL GAGES

BAFFLES / CHIP BASKETS / SCREENS

CARTRIDGE AND/OR CYCLONIC FILTERS

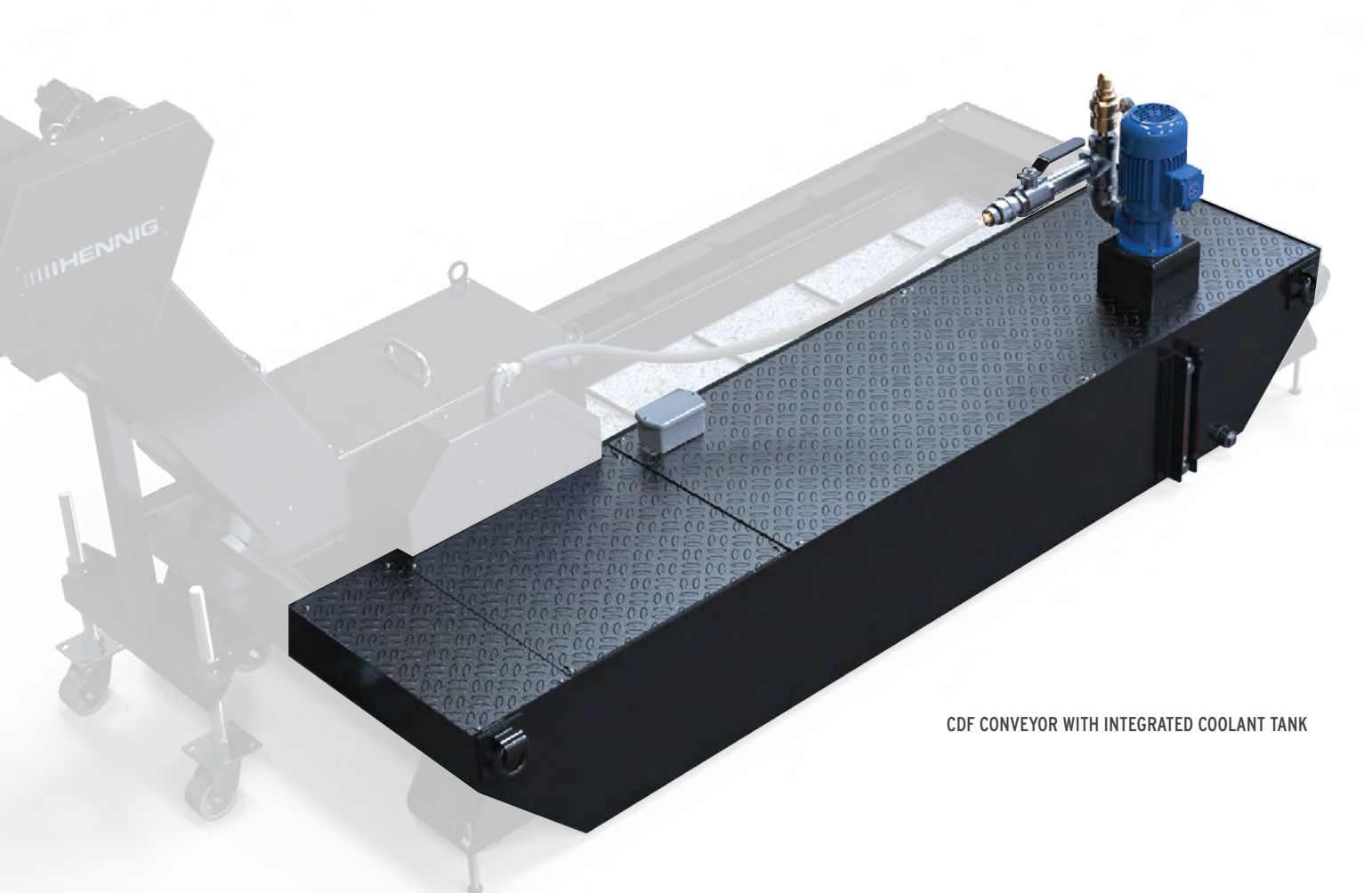
FLOAT SWITCHES

OIL SKIMMERS

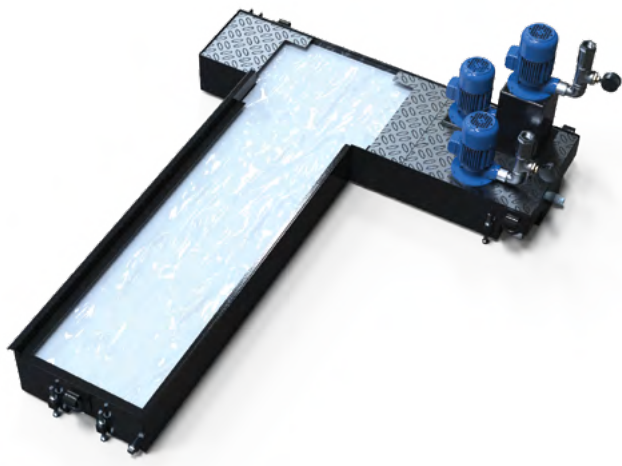
COOLANT PUMPS

CUSTOM G / MIN OR PSI REQUIREMENTS

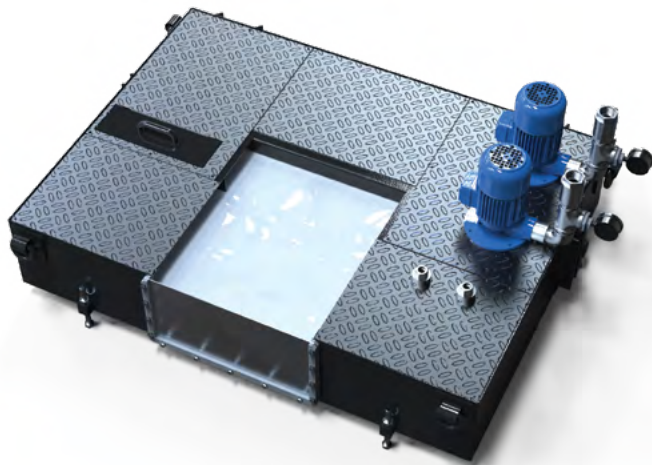
INTEGRATED CONTROLS for pump / filter automation



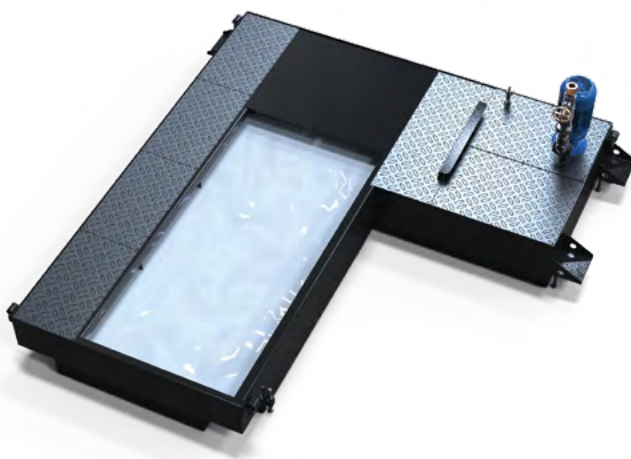
CDF CONVEYOR WITH INTEGRATED COOLANT TANK



T-shaped auxiliary coolant tank



Square-shaped auxiliary coolant tank



L-shaped auxiliary coolant tank

## QUOTE REQUEST

## HINGE / SCRAPER

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# HENNIG

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### COMPANY *(complete address)*

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\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_  
Title \_\_\_\_\_  
E-mail \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

### EXISTING CONVEYOR *(If you have the conveyor part number, disregard the sections below)*

Brand ☐ Hennig ☐ Enomoto ☐ Hennig-France (formerly Sermeto) ☐ Cobsen ☐ Other \_\_\_\_\_

Part # \_\_\_\_\_ Serial # \_\_\_\_\_ Belt Type ☐ Hinge (☐ Plain ☐ Perf ☐ Dimple) ☐ Scraper ☐ Magnetic

### MACHINE INFORMATION

Make \_\_\_\_\_ Model \_\_\_\_\_ Available References ☐ Photos ☐ Drawings

Type ☐ Lathe ☐ Milling ☐ Drilling ☐ Tapping ☐ Other \_\_\_\_\_ Chip Volume \_\_\_\_\_ in<sup>3</sup>/min

Spindle Horse Power \_\_\_\_\_ hp Available Power ☐ 440 ☐ 220 ☐ 110 ☐ 24 VDC ☐ Other \_\_\_\_\_

Chip Material ☐ Soft Steel ☐ Hard Steel ☐ Stainless Steel ☐ Brass/Copper ☐ Cast Iron ☐ Aluminum ☐ Cast Aluminum ☐ Other \_\_\_\_\_

Kind of Chips ☐ Fine ☐ Broken ☐ Large Broken ☐ Lg Bushy ☐ Tight Bushy

### CONVEYOR TECHNICAL DATA

Intake Length L1 \_\_\_\_\_ mm

Max Length L \_\_\_\_\_ mm

Discharge Height H \_\_\_\_\_ mm

Max Width W \_\_\_\_\_ mm

Angle (45°, 60°) A \_\_\_\_\_ deg.

Width of Chip Chute W1 \_\_\_\_\_ mm

Height of Chip Chute H1 \_\_\_\_\_ mm

Inlet Height (minimum) H2 (1.5" pitch belt) 120 mm

H2 (2.5" pitch belt) 200 mm

Belt Width B \_\_\_\_\_ mm

Foot Location (choose one) ☐ B ☐ C \_\_\_\_\_ mm

Casters ☐ Yes ☐ No

Coolant Tank Required ☐ Yes ☐ No (if yes, use data sheet on page 22)

Coolant Flow Rate \_\_\_\_\_ gal/min (total machine)

Coolant Slots ☐ Left ☐ Right ☐ Both ☐ None

Conveyor Speed (m/min) ☐ 2.2 ☐ 1.6 ☐ Other \_\_\_\_\_

Overload Protection ☐ Current Sensor (standard) ☐ Mech. Torque Limiter ☐ None

☐ Other \_\_\_\_\_

Installed Location ☐ On Floor ☐ Inside Machine ☐ Inside Pit ☐ Inside Tank

Motor Location ☐ Left ☐ Right

Power Requirements V \_\_\_\_\_ Ph \_\_\_\_\_ Hz \_\_\_\_\_

Control Box ☐ Yes ☐ No

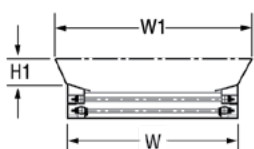
☐ Variable Speed (standard) ☐ 3 button box (fwd, rev, e-stop) ☐ Auto/Manual Selector Switch

☐ Electrical Plug (if yes, please specify) \_\_\_\_\_

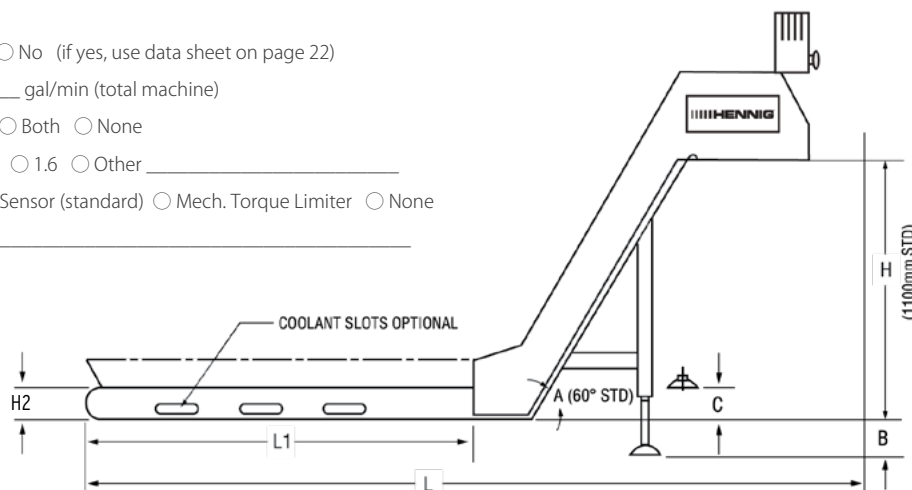
Control Box Location ☐ Top Front ☐ Top Left ☐ Top Right

☐ Left Side ☐ Right Side ☐ Stand Alone

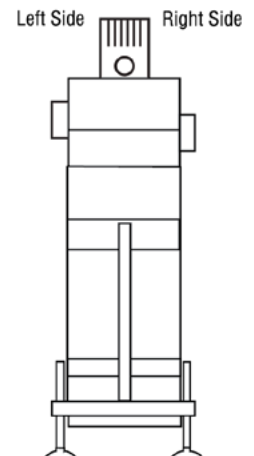
Paint (texture powder coated) ☐ RAL # \_\_\_\_\_ ☐ Other \_\_\_\_\_



INLET CROSS SECTION



LEFT SIDE PROFILE VIEW



FRONT VIEW

## QUOTE REQUEST

## CHIP DISC FILTRATION

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# IIIIHENNIG

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Title \_\_\_\_\_  
E-mail \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

### EXISTING CONVEYOR (If you have the conveyor part number, disregard the sections below)

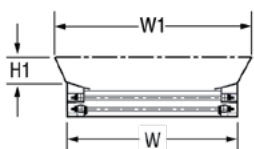
Brand ☐ Hennig ☐ Enomoto ☐ Hennig-France (formerly Sermeto) ☐ Cobsen ☐ Other \_\_\_\_\_  
Part # \_\_\_\_\_ Serial # \_\_\_\_\_ Belt Type ☐ Hinge (☐ Plain ☐ Perf ☐ Dimple) ☐ Scraper ☐ Magnetic

### MACHINE INFORMATION

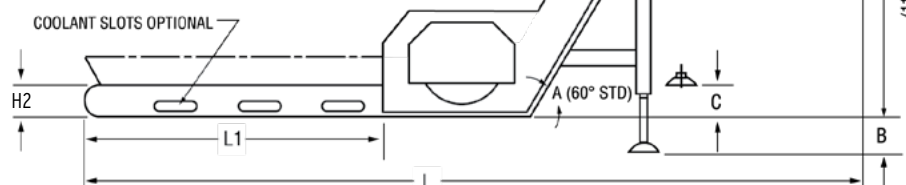
Make \_\_\_\_\_ Model \_\_\_\_\_ Available References ☐ Photos ☐ Drawings  
Type ☐ Lathe ☐ Milling ☐ Drilling ☐ Tapping ☐ Other \_\_\_\_\_ Chip Volume \_\_\_\_\_ in<sup>3</sup>/min  
Spindle Horse Power \_\_\_\_\_ hp Available Power ☐ 440 ☐ 220 ☐ 110 ☐ 24 VDC ☐ Other \_\_\_\_\_  
Chip Material ☐ Soft Steel ☐ Hard Steel ☐ Stainless Steel ☐ Brass/Copper ☐ Cast Iron ☐ Aluminum ☐ Cast Aluminum ☐ Other \_\_\_\_\_  
Kind of Chips ☐ Fine ☐ Broken ☐ Large Broken ☐ Lg Bushy ☐ Tight Bushy

### CONVEYOR TECHNICAL DATA

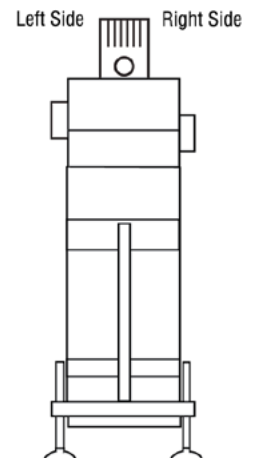
Intake Length L1 \_\_\_\_\_ mm Installed Location ☐ On Floor ☐ Inside Machine ☐ Inside Pit ☐ Inside Tank  
Max Length L \_\_\_\_\_ mm Motor Location ☐ Left ☐ Right  
Discharge Height H \_\_\_\_\_ mm Power Requirements V \_\_\_\_\_ Ph \_\_\_\_\_ Hz \_\_\_\_\_  
Max Width W \_\_\_\_\_ mm Control Box ☐ Yes ☐ No  
Angle (45°, 60°) A \_\_\_\_\_ deg. ☐ Variable Speed (standard) ☐ 3 button box (fwd, rev, e-stop) ☐ Auto/Manual Selector Switch  
Width of Chip Chute W1 \_\_\_\_\_ mm ☐ Electrical Plug (if yes, please specify) \_\_\_\_\_  
Height of Chip Chute H1 \_\_\_\_\_ mm Control Box Location ☐ Top Front ☐ Top Left ☐ Top Right  
Inlet Height (minimum) H2 (1.5" pitch belt) 120 mm ☐ Left Side ☐ Right Side ☐ Stand Alone  
H2 (2.5" pitch belt) 200 mm Paint (texture powder coated) ☐ RAL # \_\_\_\_\_ ☐ Other \_\_\_\_\_  
Belt Width B \_\_\_\_\_ mm  
Foot Location (choose one) ☐ B ☐ C \_\_\_\_\_ mm  
Casters ☐ Yes ☐ No  
Coolant Tank Required ☐ Yes ☐ No (if yes, use data sheet on page 22)  
Coolant Flow Rate \_\_\_\_\_ gal/min (total machine)  
Coolant Type ☐ Water Soluble ☐ Synthetic ☐ Oil \_\_\_\_\_ ssu ☐ Other \_\_\_\_\_  
Filtration Level ☐ 25-30 micron ☐ 35-40 micron ☐ 40-45 micron ☐ Other \_\_\_\_\_  
Conveyor Speed (m/min) ☐ 2.2 ☐ 1.6 ☐ Other \_\_\_\_\_  
Overload Protection ☐ Current Sensor (standard) ☐ Mech. Torque Limiter ☐ None  
☐ Other \_\_\_\_\_



INLET CROSS SECTION



LEFT SIDE PROFILE VIEW



FRONT VIEW

## COMPANY (complete address)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_  
Title \_\_\_\_\_  
E-mail \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

## MACHINE INFORMATION

Make \_\_\_\_\_ Model \_\_\_\_\_  
Type ☐ Lathe ☐ Milling ☐ Drilling ☐ Tapping ☐ Other \_\_\_\_\_

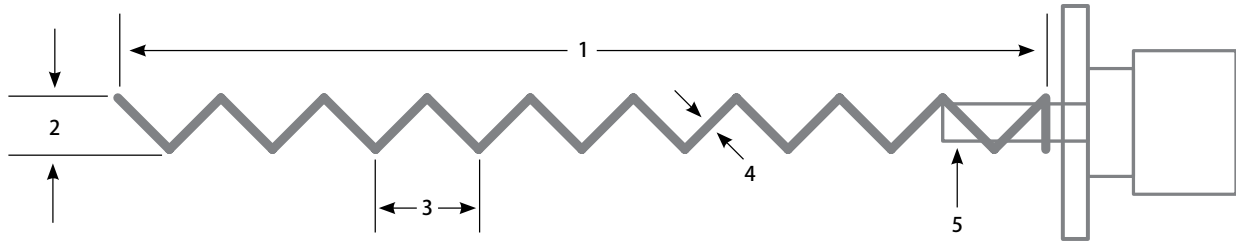
Available References ☐ Photos ☐ Drawings  
Chip Volume \_\_\_\_\_ in<sup>3</sup>/min

## AUGER DETAILS

End-to-End Length 1 \_\_\_\_\_ mm  
Spiral Outside Diameter 2 \_\_\_\_\_ mm  
Pitch 3 \_\_\_\_\_ mm  
Spiral Metal Thickness 4 \_\_\_\_\_ mm  
Drive Shaft Diameter 5 \_\_\_\_\_ mm

Direction ☐ Right Hand ☐ Left Hand

Additional Information \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## MOUNTING TYPE



☐ A (Internal hub bored to driveshaft, secured with bolt or set screw)



☐ B (Slip connection that fits tightly onto driveshaft, connected with a pin)



☐ C (Combination of A and B)



☐ D (Spiral only, to be welded directly onto driveshaft)



## COMPANY (complete address)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_  
Title \_\_\_\_\_  
E-mail \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

## MACHINE INFORMATION

Make \_\_\_\_\_ Model \_\_\_\_\_  
Type ☐ Lathe ☐ Milling ☐ Drilling ☐ Tapping ☐ Other \_\_\_\_\_

Available References ☐ Photos ☐ Drawings

## COOLANT TANK TECHNICAL DATA

Tank Shape ☐ Square/Rectangular ☐ L Shape ☐ T Shape  
☐ Other \_\_\_\_\_

Tank Size L \_\_\_\_\_ mm W \_\_\_\_\_ mm  
L1 \_\_\_\_\_ mm W1 \_\_\_\_\_ mm  
L2 \_\_\_\_\_ mm H \_\_\_\_\_ mm

Tank Mounting ☐ On Floor ☐ In Pit ☐ Other \_\_\_\_\_

Tank Options ☐ Casters ☐ Leveling Bolts ☐ Inspection Cover  
☐ Removable Screen(s) ☐ Other \_\_\_\_\_

Paint (texture powder coated) \_\_\_\_\_

Pump 1 ☐ None ☐ Model \_\_\_\_\_  
• Flow Rate \_\_\_\_\_ Pressure \_\_\_\_\_ Voltage \_\_\_\_\_

Pump 2 ☐ None ☐ Model \_\_\_\_\_  
• Flow Rate \_\_\_\_\_ Pressure \_\_\_\_\_ Voltage \_\_\_\_\_

Pump 3 ☐ None ☐ Model \_\_\_\_\_  
• Flow Rate \_\_\_\_\_ Pressure \_\_\_\_\_ Voltage \_\_\_\_\_

Filter ☐ Single Canister Bag ☐ Dual Canister Bag ☐ Cyclonic

Required Filtration Level \_\_\_\_\_ microns

Float Switch ☐ High Level ☐ Low Level ☐ High & Low Level ☐ None

Oil Skimmer ☐ Yes ☐ No

Coolant Capacity \_\_\_\_\_ gallons

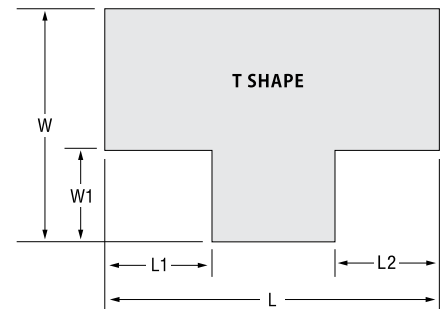
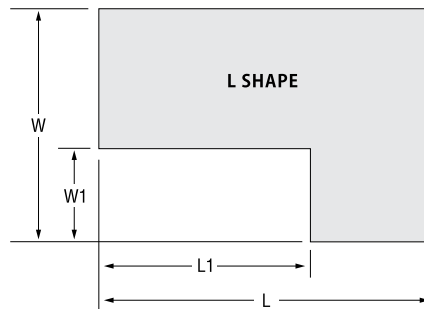
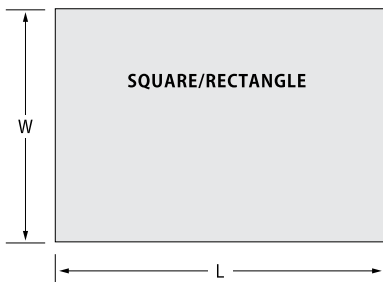
Coolant Flow Rate \_\_\_\_\_ gal/min (total machine)

Additional Options \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Additional Information \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_



## QUOTE REQUEST

## MAGNETIC CONVEYOR

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# IIII HENNIG

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### COMPANY (complete address)

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\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Name \_\_\_\_\_  
Title \_\_\_\_\_  
E-mail \_\_\_\_\_  
Phone \_\_\_\_\_ Fax \_\_\_\_\_ Date \_\_\_\_/\_\_\_\_/\_\_\_\_

### EXISTING CONVEYOR (If you have the conveyor part number, disregard the sections below)

Brand ☐ Hennig ☐ Enomoto ☐ Hennig-France (formerly Sermeto) ☐ Cobsen ☐ Other \_\_\_\_\_  
Part # \_\_\_\_\_ Serial # \_\_\_\_\_ Belt Type ☐ Plain ☐ Dimpled

### APPLICATION / MACHINE INFORMATION

Make \_\_\_\_\_ Model \_\_\_\_\_ Available References ☐ Photos ☐ Drawings  
Type ☐ Drilling ☐ Milling ☐ Stamping ☐ Broaching ☐ Other \_\_\_\_\_  
Do you have material shape samples available for testing? We can test run and video the performance of your samples prior to your quote. ☐ Yes ☐ No  
How will material be fed to the conveyor ☐ Metered ☐ Surge Loaded ☐ Other \_\_\_\_\_  
Chip Volume \_\_\_\_\_ in<sup>3</sup>/min Casters ☐ Yes ☐ No Inlet Hopper ☐ Yes ☐ No Motor Voltage ☐ 110 ☐ 230 ☐ 480 ☐ 575 ☐ Other \_\_\_\_\_  
Wet or Dry ☐ Wet ☐ Dry If wet, provide type and amount \_\_\_\_\_ ☐ gallons/min ☐ liters/min  
Paint Specification ☐ Enamel ☐ Chemical Cure ☐ Other \_\_\_\_\_ Paint Color ☐ RAL # \_\_\_\_\_ ☐ Other \_\_\_\_\_

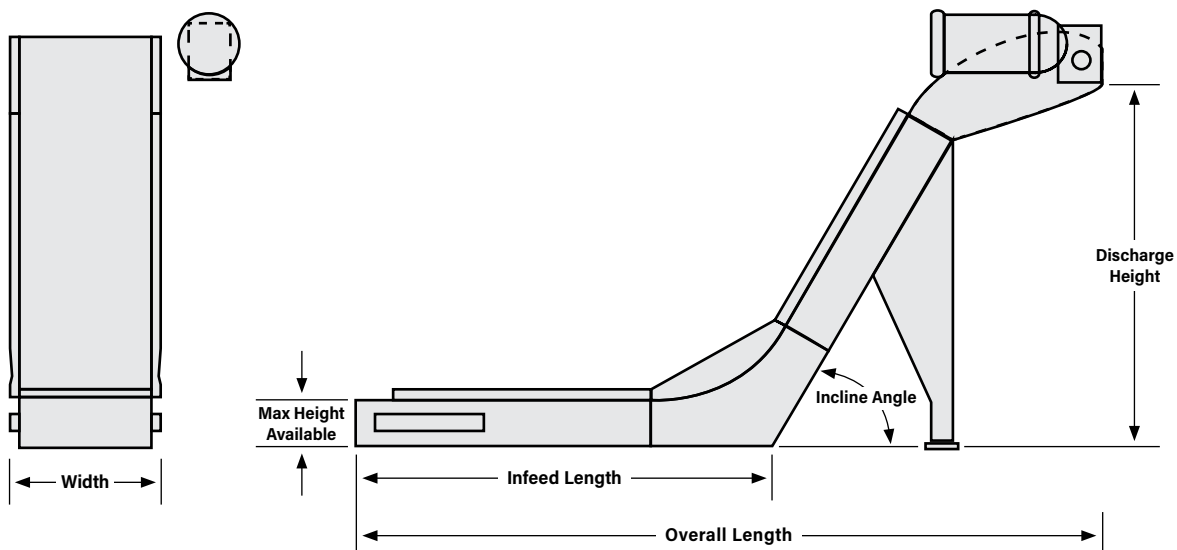
### OPTIONS

Construction ☐ Mild Steel (standard) ☐ Stainless Steel Impact Plate ☐ Stainless Steel ☐ Inches Long ☐ Manganese Steel ☐ Inches Long Hydro Safe Oil ☐ Yes  
Leg Support ☐ Slot Adjustable +/-3 (standard) ☐ Screw Adjustable +/-1 ☐ Casters ☐ Fixed Lifting Lugs ☐ Swing Shackles Hopper ☐ Infeed ☐ Inspection

### DIMENSIONS

UOM ☐ inch ☐ mm Width \_\_\_\_\_ Max Height Available \_\_\_\_\_ Overall Length \_\_\_\_\_ Infeed Length \_\_\_\_\_  
Discharge Height \_\_\_\_\_ Incline Angle ☐ 30° ☐ 45° ☐ 60° ☐ 75° ☐ 90° ☐ Other \_\_\_\_\_

Notes \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_





# HENNIG WORLDWIDE FACILITIES / CONTACTS



Making our customers successful.



Headquarters / Manufacturing / Distribution / Service Center



Manufacturing / Distribution / Service Center



Manufacturing / Distribution



Sales Partner



Service Center



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 F: + 81 583 897435  
 kashida@enomotoweb.com

# MAKING OUR CUSTOMERS SUCCESSFUL

For over 65 years, Hennig Worldwide has been defining Excellence in Machine Protection, creating regional jobs, serving their local communities, and supporting the global needs of machine tool customers.

Specializing in chip management, machine protection, facility safety, and generator enclosures, Hennig products optimize production and keep your facility clean and safe.

## MACHINE PROTECTION

Telescopic Steel Covers  
Modular Face Shields (XYZ Shields)  
Bellows  
Aprons & Roll Up Covers  
Walk-On Covers  
Wiper Systems  
Telescopic Springs  
Cable Conduits

## CHIP SOLUTIONS

Chip Conveyors  
Turnkey Chip Management  
Conveyor Networks  
Chip Disc Filtration (CDF)  
Coolant Filtration  
Coolant Tanks

## ENCLOSURES & FACILITY SAFETY

Walk-On Pit Covers  
Scissor Lift Bellows  
Machine Roof Bellow Covers  
Double Column Enclosures  
GENSET Enclosures



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