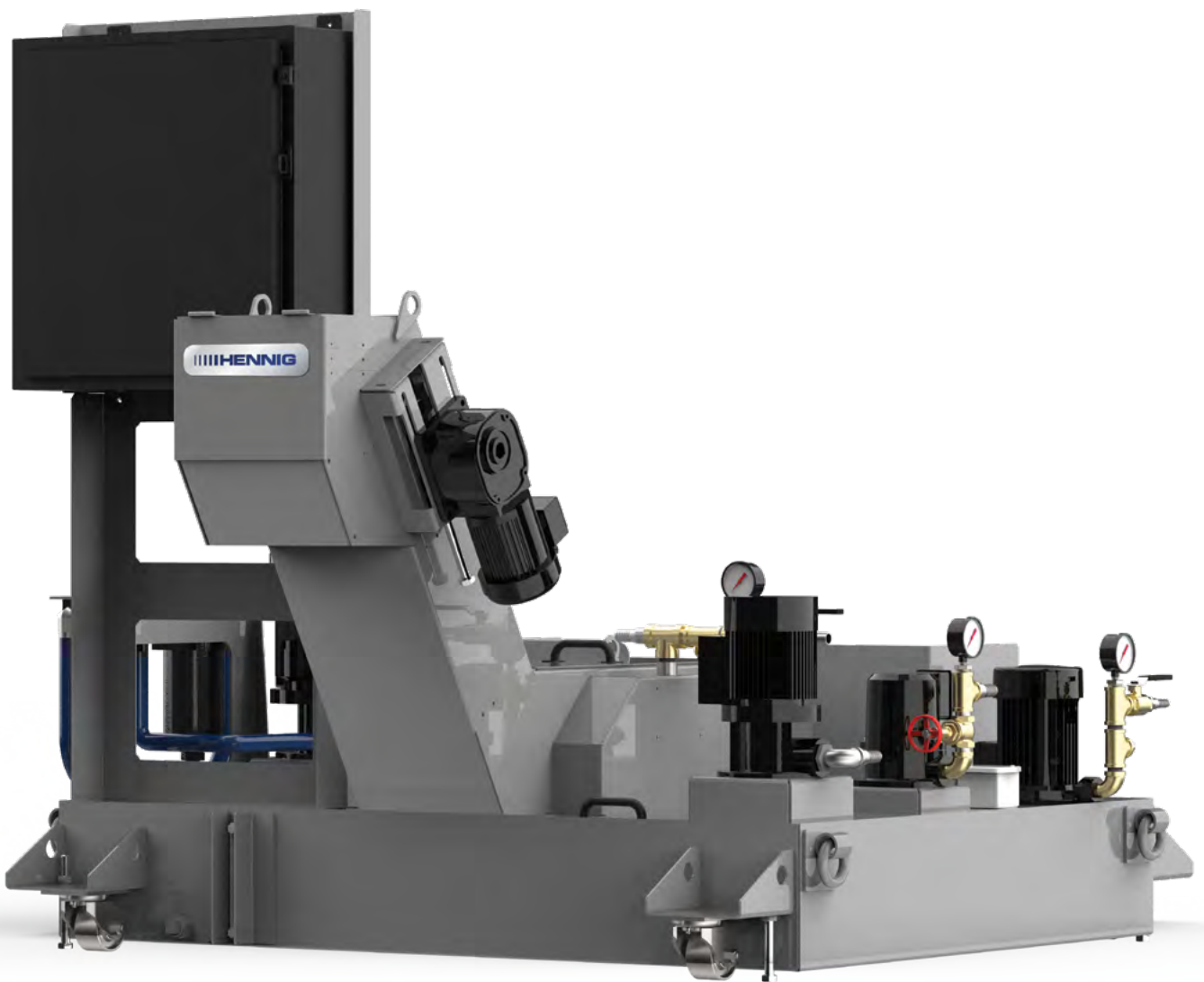


CONVEYORS & FILTRATION

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



||| HENNIG®

Making our customers successful.

www.hennigworldwide.com



Making our customers successful.

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.

CONTACT US

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See pages 23-24 for a complete list of our worldwide locations / contact info



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5-8	CONVEYOR TYPES	15-16	ADDITIONAL FILTRATION TYPES
9	CUSTOM / TURNKEY SYSTEMS	17-18	COOLANT TANKS
10	CONVEYOR NETWORKS	19-22	REQUEST FOR QUOTE SHEETS
11-12	SERVICE & SPARE PARTS	23-24	WORLDWIDE FACILITIES / CONTACT INFO

CHIP CONVEYORS & CHIP FORM SPECIFICATIONS

CONVEYOR TYPES



HINGE BELT page 5



SCRAPER BELT page 5



MAGNETIC page 6



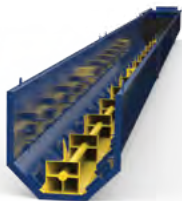
CHIP DISC FILTRATION page 6



AUGER page 7



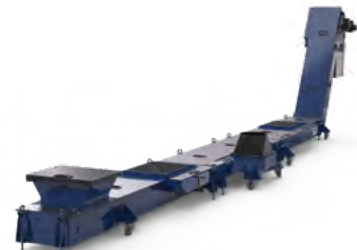
MOBILE page 7



PUSH-PULL BAR page 8



BELT-TYPE page 8



CUSTOM / TURNKEY / NETWORKS
page 9 - 10

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


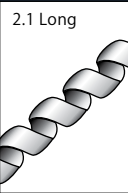


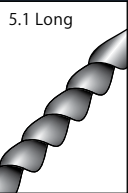

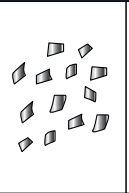
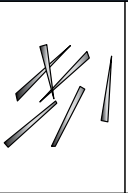


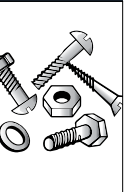
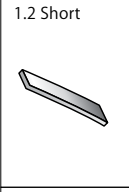





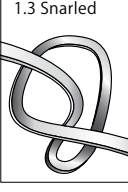



AIR KNIFE for removing sticky chips from belt at the discharge end

WEARING RESISTANT BOTTOM FRAME

ON-SITE INSTALLATION

CASTERS

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*	CDF	AUGER	MOBILE	PUSH-PULL BAR	BELT-TYPE
1.1 Ribbon (long)	●	●	●	●	●		●	●
1.2 Ribbon (short)	●	●	●	●	●	Mobile conveyors use different belts depending on your application.	●	●
1.3 Ribbon (snarled)	●	●	●	●	●		●	●
2.1 Tubular (long)	●	●	●	●	●		●	●
2.2 Tubular (short)	●	●	●	●	●		●	●
2.3 Tubular (snarled)	●	●	●	●	●		●	●
3.1 Spiral (flat)	●	●	●	●	●		●	●
3.2 Spiral (conical)	●	●	●	●	●		●	●
4.1 Washer Type Helical (long)	●	●	●	●	●	To find out if a mobile conveyor is right for your application, please contact us.	●	●
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 not recommended

CONVEYOR TYPES

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



MAGNETIC

The magnetic conveyor plays a very specific role in chip management - it's intended for ferrous material applications which produce small chips and fines.

options

COOLANT TANKS

HIGH TEMPERATURE RESISTANCE

SOLID DRUM MAGNET to clean fine particles from the coolant



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 SIZE 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.



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 with or without shaft

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.

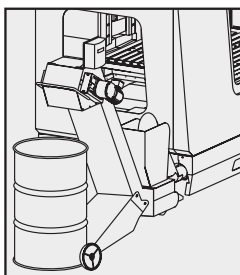
options

ADJUSTABLE CHIP CHUTE

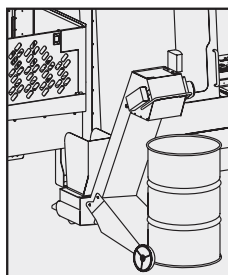
The opening of the chip hopper may be oriented directly toward the tail section of the conveyor, to the right, or to the left, by unscrewing the four bolts holding the hopper in place, removing it, rotating it to the desired position and bolting it back in place.



Adjustable Chip Chute Orientation



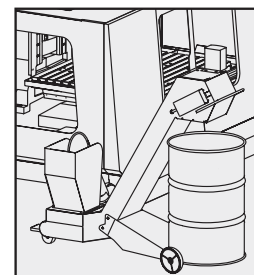
A. Toward tail section



B. With APCQ



C. To Left



D. To Right

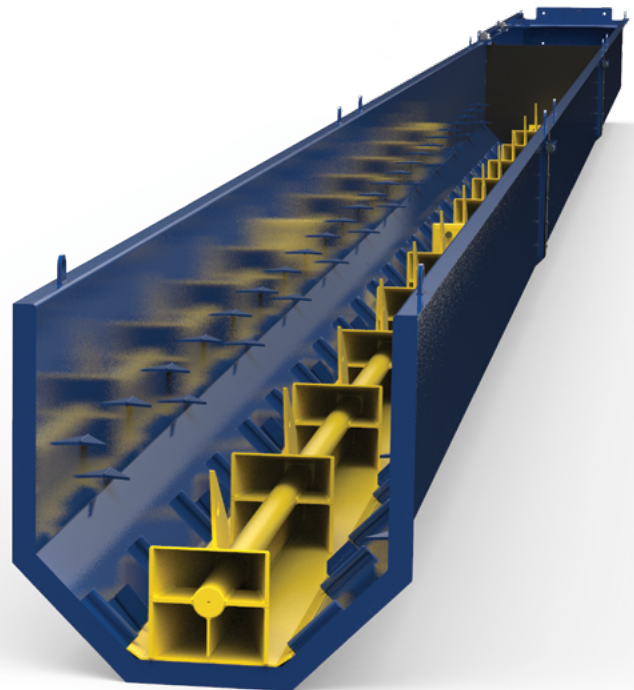
PUSH-PULL BAR (ram, bar)

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. This system is ideal for shops with multiple conveyors (conveyor networks), where each conveyor can discharge into the push-pull bar system for high volume chip disposal.

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	25	Hinge Belt (whole belt replacement)
2	Torque Limiter Assembly	13	Flip Lid	17	Hinge Kit (standard)
3	Inside Chain Guard	14	Gear Motor Sprocket	18	Hinge Kit (with plain cleat)
4	Take-Up Bearing	15	Gear Motor	19	Hinge Kit (with serrated cleat)
5	Belt Sprocket	16	Adjustable Supports	26	Scraper Belt (whole belt replacement)
6	LH Inner Guard	20	Idler Shaft Assembly (if provided originally)	27	Scraper Blade Kit
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				

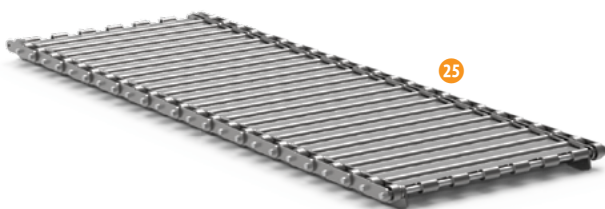
To order spare parts, simply provide us with the Hennig No., Serial No., and Customer No. found on your conveyor tag (typically found on either side of the discharge head), and the parts you need to replace from the list above.

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



BELT REPLACEMENT / KITS

hinge belt



scraper belt



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

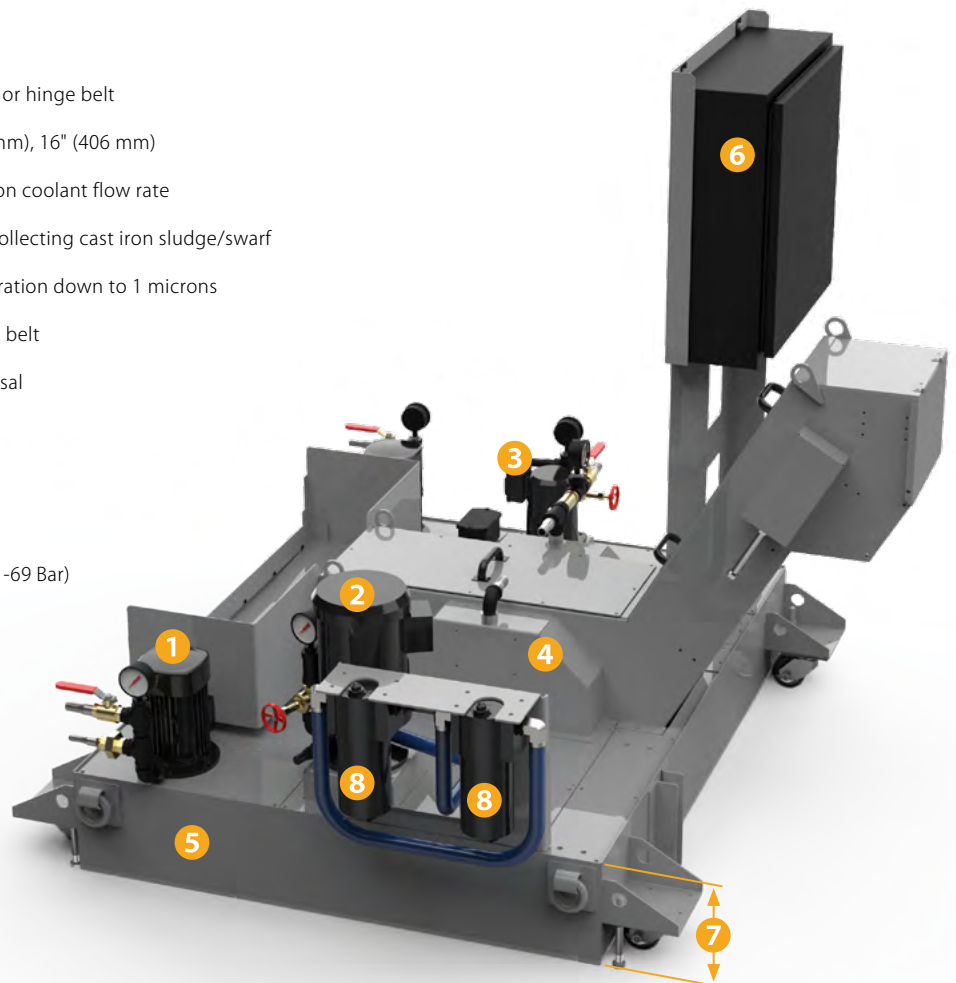
Handles momentary or continuous heavy chip loads from 25-120 microns nominal, which can be a problem with nylon mesh, drum filters.

options

- BELT TYPE** can be used with scraper belt or hinge belt
- FILTER DISC SIZE** 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 1 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



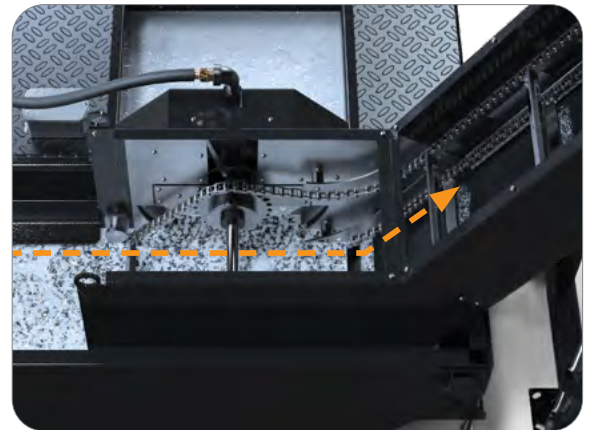
HOW IT WORKS

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.



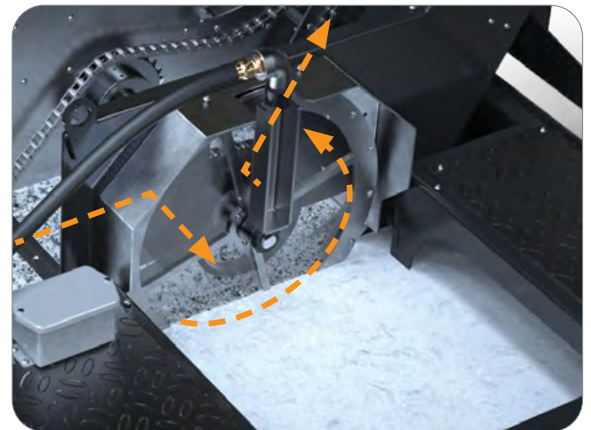
2 fine particle filtration

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.

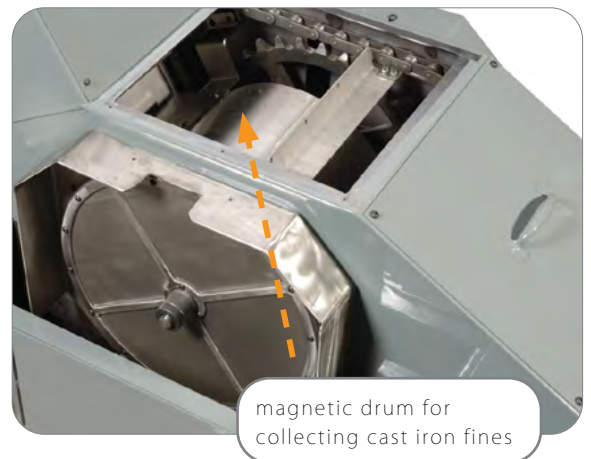


3 cast iron micro-filtration

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.

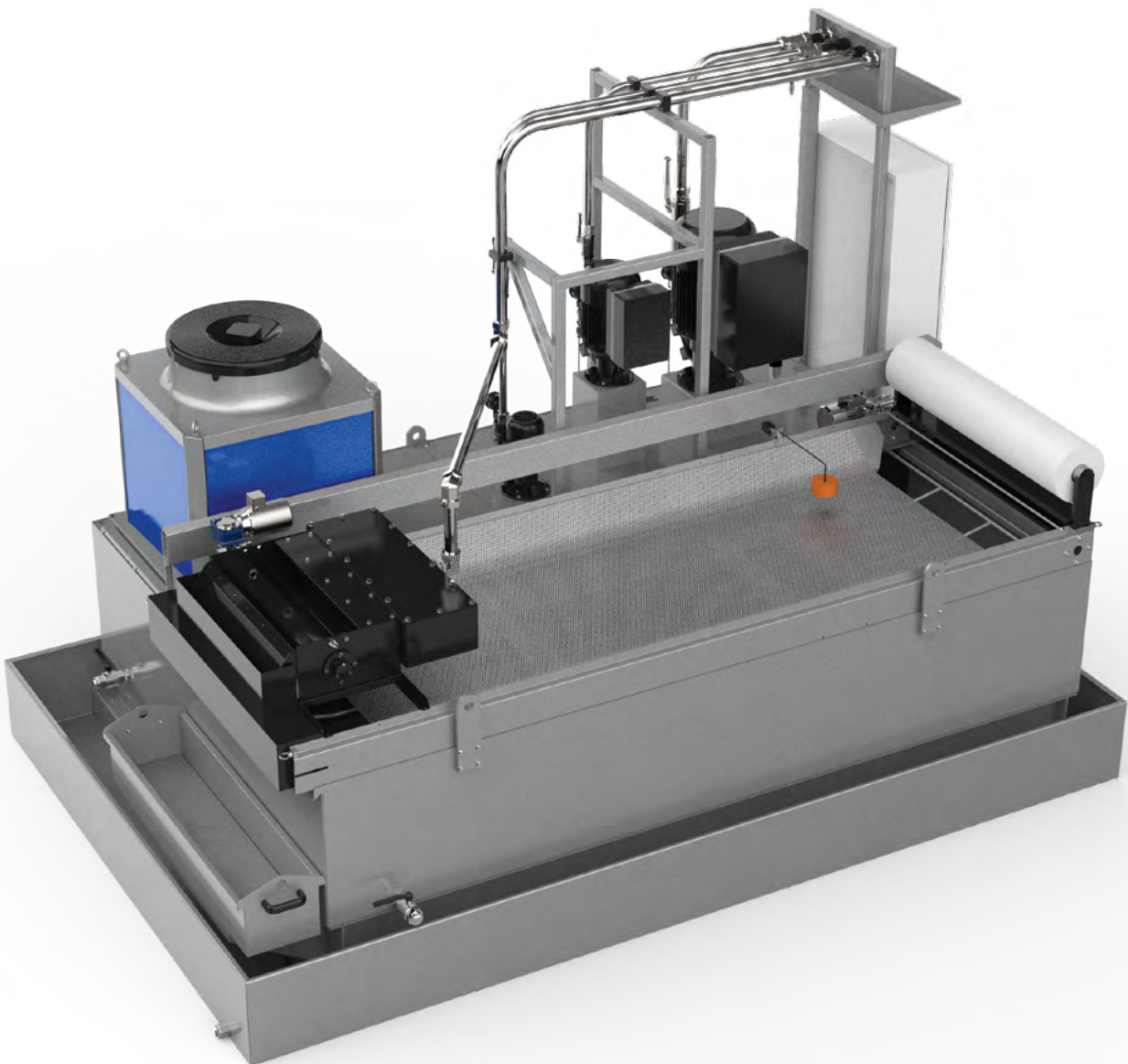


ADDITIONAL FILTRATION OPTIONS

PAPER FILTRATION BELT

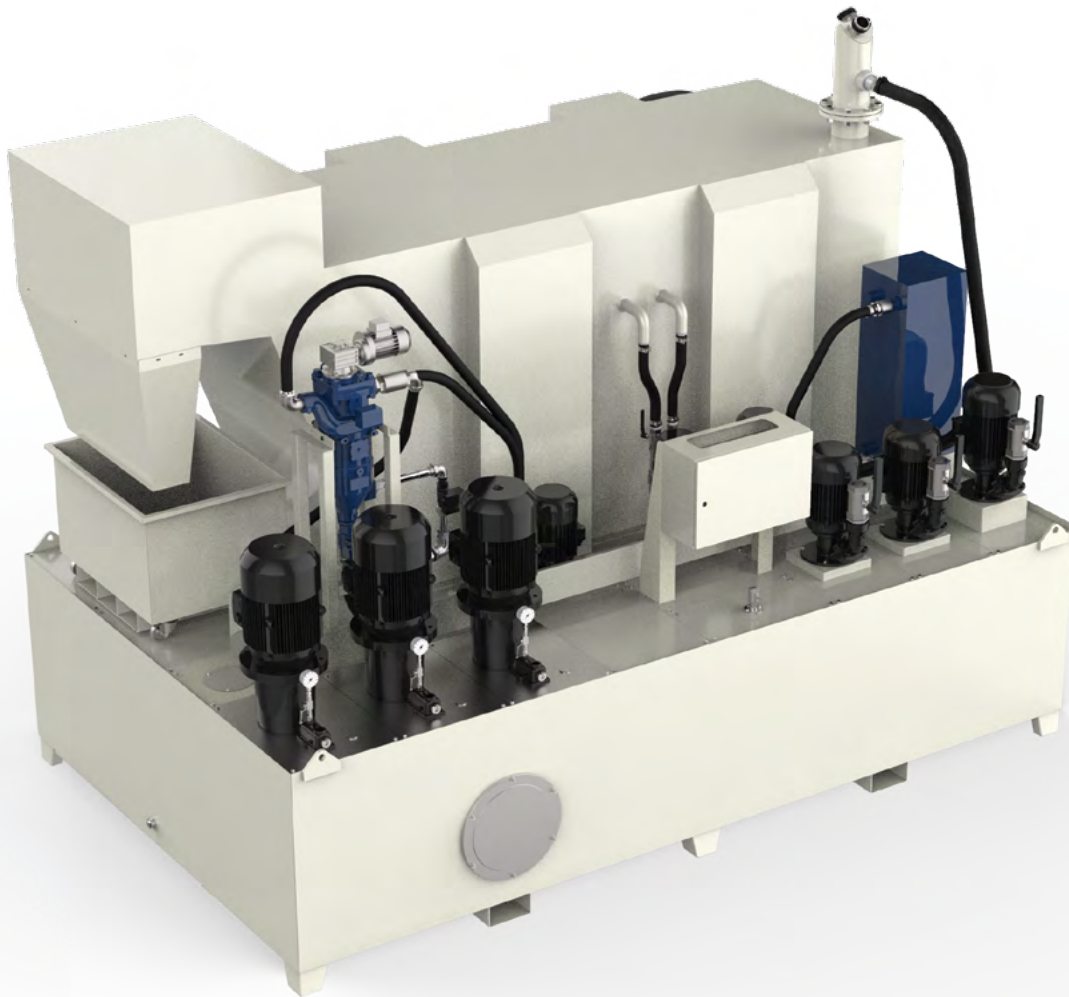
Paper filtration systems are designed to cleanse different types of liquids (water, emulsions, aqueous solutions of polluting solid particles). These filters are also used in markets others than those of machine tools (chemistry, food, painting, petrochemistry, glass, industrial washing machines).

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.



DRUM FILTER

Automatic metal-edge filters are suitable for all applications where low or high-viscosity liquids or pastes have to be filtered and homogenised. These compact inline filter systems can be designed for semi or fully automatic cleaning. The system is cleaned by rotating the cartridge against a spring actuated scraper.



METAL-EDGE FILTERS

Automatic metal-edge filters are suitable for all applications where low or high-viscosity liquids or pastes have to be filtered and homogenised.

These compact inline filter systems can be designed for semi or fully automatic cleaning. The system is cleaned by rotating the cartridge against a spring actuated scraper.



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 gauges are a standard feature, and baffles, chip baskets, and removable screens can also be added.

options

BAFFLES / CHIP BASKETS / SCREENS

CARTRIDGE AND/OR CYCLONIC FILTERS

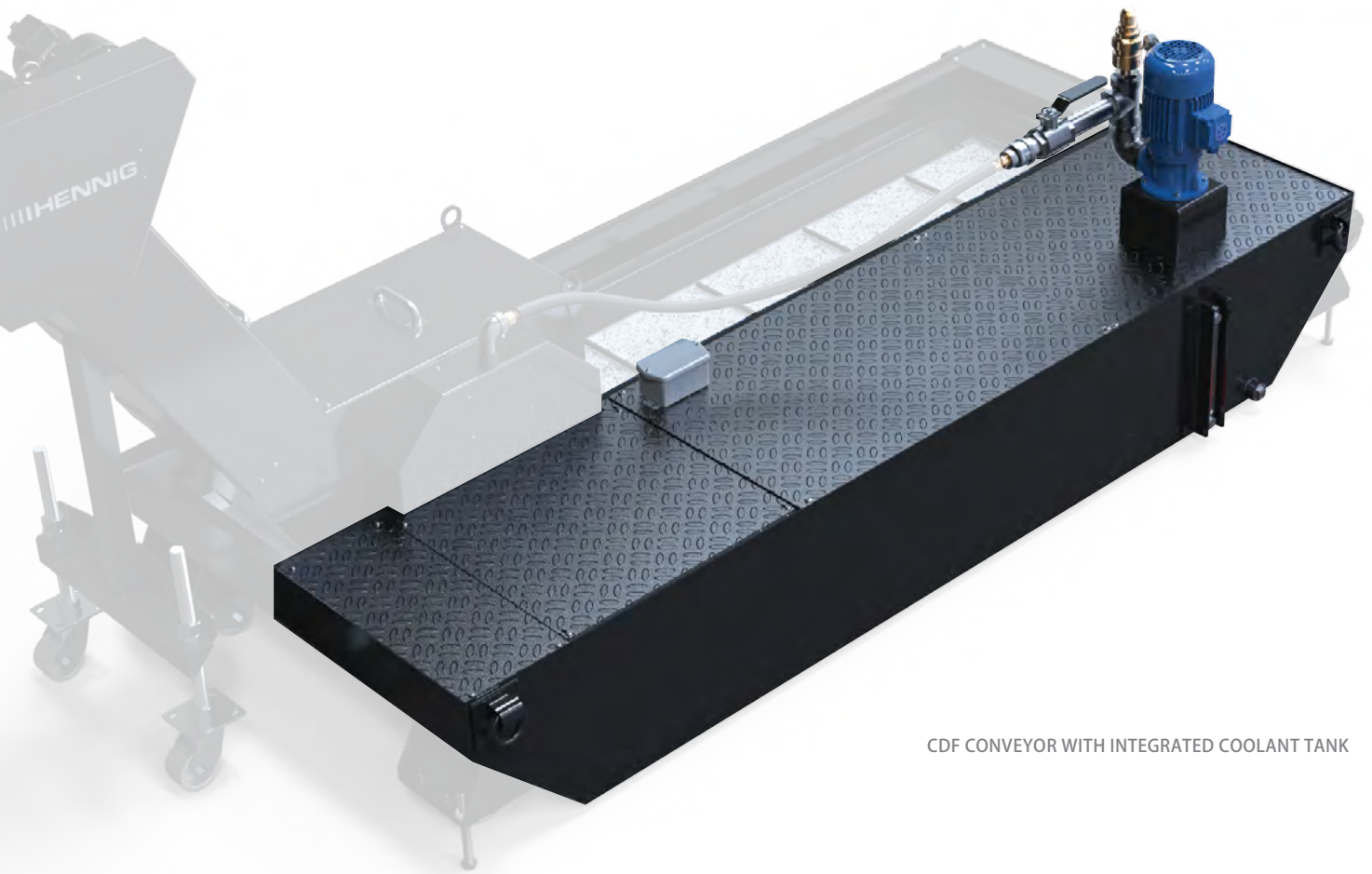
FLOAT SWITCHES

OIL SKIMMERS

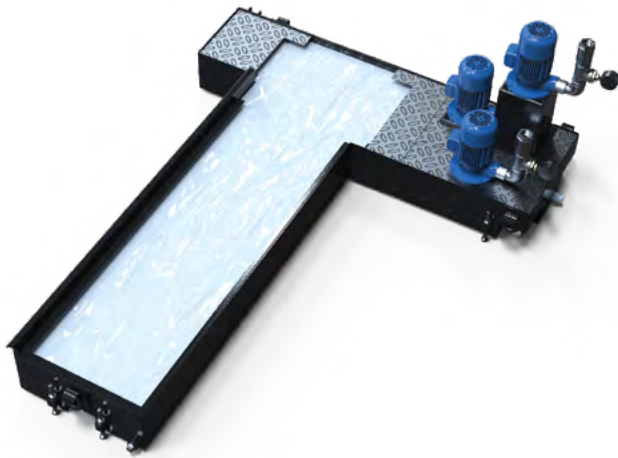
COOLANT PUMPS

CUSTOM G / MIN (dm³/h) OR PSI REQUIREMENTS

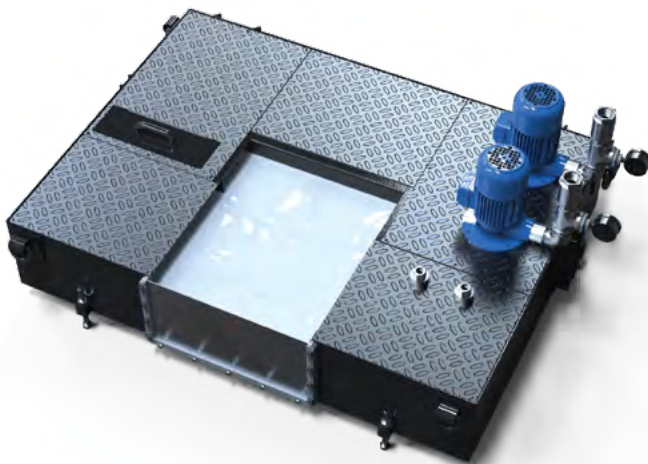
INTEGRATED CONTROLS for pump / filter automation



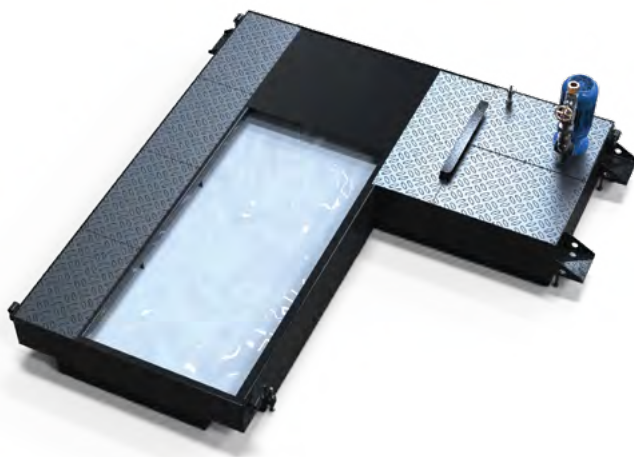
CDF CONVEYOR WITH INTEGRATED COOLANT TANK



T-shaped auxiliary coolant tank



Square-shaped auxiliary coolant tank



L-shaped auxiliary coolant tank

COMPANY (complete address)

Name _____
 Title _____
 E-mail _____
 Phone _____ Fax _____ Date ____/____/____

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

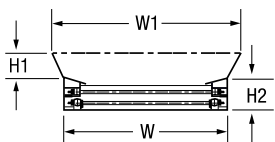
Brand Hennig Enomoto Sermeto Cobsen Other _____
 Part # _____ Serial # _____ Belt Type Hinge (Plain Perf Dimple) Scraper Magnetic

MACHINE INFORMATION

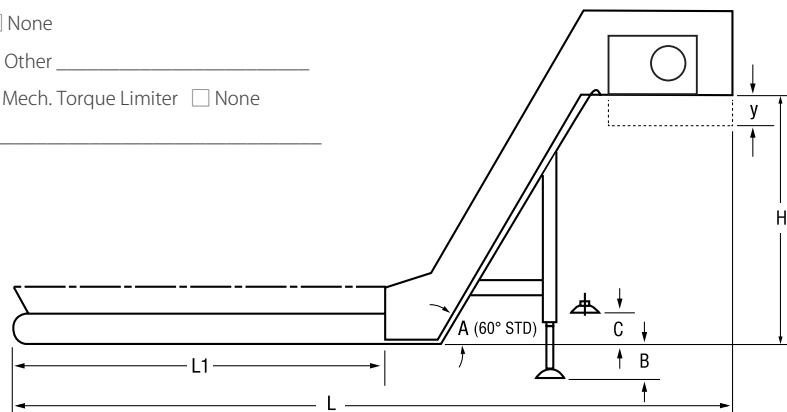
Make _____ Model _____ Available References Photos Drawings
 Type Lathe Milling Drilling Tapping Other _____ Chip Volume _____ dm³/h
 Spindle Power _____ kW Available Power 400 220 110 24 VDC Other _____
 Chip Material Soft Steel Hard Steel Stainless Steel Brass/Copper Cast Iron Aluminum Cast Aluminum Other _____
 Kind of Chips Fine Broken Large Broken Lg Bushy Tight Bushy

CONVEYOR TECHNICAL DATA

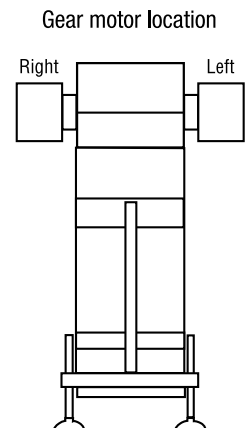
Intake Length L1 _____ mm Installed Location On Floor Inside Machine Inside Pit Inside Tank
 Max Length L _____ mm Motor Location Left Right
 Discharge Height H _____ mm Power Requirements V _____ Ph _____ Hz _____
 Max Width W _____ mm Control Box Yes No
 Angle (45°, 60°) A _____ deg. Variable Speed (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
 Frame Height H2 _____ mm Left Side Right Side Stand Alone
 Chute Height y _____ 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
 Coolant Flow Rate _____ L/min (total machine)
 Coolant Slots Left Right Both None
 Conveyor Speed (m/min) 2.2 1.6 Other _____
 Overload Protection Current Sensor Mech. Torque Limiter None
 Other _____



Inlet cross section



Right side profile view



View facing the conveyor

COMPANY *(complete address)*

Name _____
 Title _____
 E-mail _____
 Phone _____ Fax _____ Date ____/____/____

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

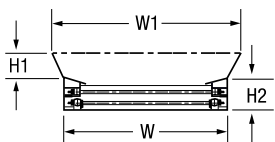
Brand Hennig Enomoto Sermeto Cobsen Other _____
 Part # _____ Serial # _____ Belt Type Hinge (Plain Perf Dimple) Scraper Magnetic

MACHINE INFORMATION

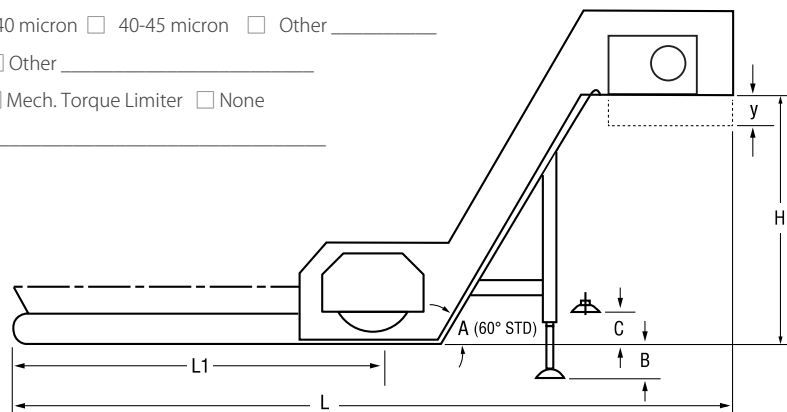
Make _____ Model _____ Available References Photos Drawings
 Type Lathe Milling Drilling Tapping Other _____ Chip Volume _____ dm³/h
 Spindle Power _____ kW Available Power 400 220 110 24 VDC Other _____
 Chip Material Soft Steel Hard Steel Stainless Steel Brass/Copper Cast Iron Aluminum Cast Aluminum Other _____
 Kind of Chips Fine Broken Large Broken Lg Bushy Tight Bushy

CONVEYOR TECHNICAL DATA

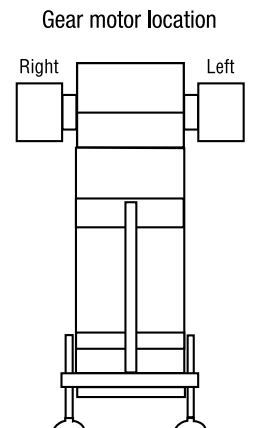
Intake Length L1 _____ mm Installed Location On Floor Inside Machine Inside Pit Inside Tank
 Max Length L _____ mm Motor Location Left Right
 Discharge Height H _____ mm Power Requirements V _____ Ph _____ Hz _____
 Max Width W _____ mm Control Box Yes No
 Angle (45°, 60°) A _____ deg. Variable Speed (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
 Frame Height H2 _____ mm Left Side Right Side Stand Alone
 Chute Height y _____ mm Paint (texture powder coated) RAL # _____ Other _____
 Belt Width B _____ mm
 Foot Location (choose one) B C _____ mm
 Casters Yes No
 Coolant Flow Rate _____ L/min (total machine)
 Coolant Type Water Soluble Synthetic Oil _____ cSt 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 Mech. Torque Limiter None
 Other _____



Inlet cross section



Right side profile view



View facing the conveyor

COMPANY *(complete address)*

Name _____
 Title _____
 E-mail _____
 Phone _____ Fax _____ Date ____/____/____

MACHINE INFORMATION

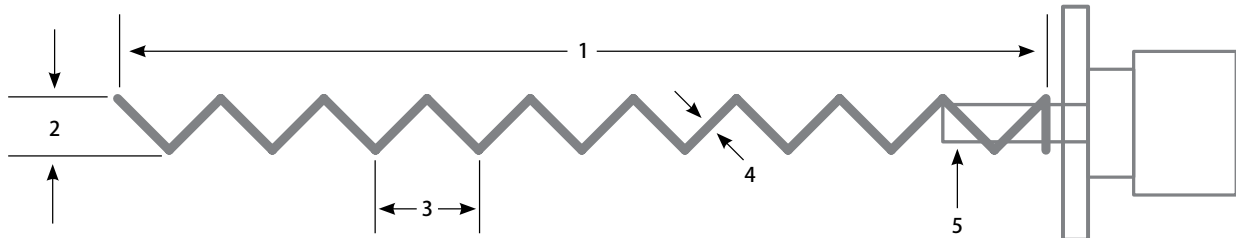
Make _____ Model _____
 Type Lathe Milling Drilling Tapping Other _____

Available References Photos Drawings
 Chip Volume _____ dm³/h





AUGER MEASUREMENTS

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

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
 Chip Volume _____ dm³/h

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 None

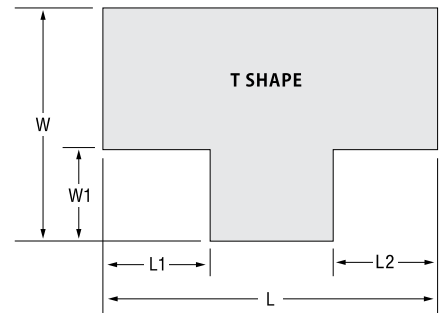
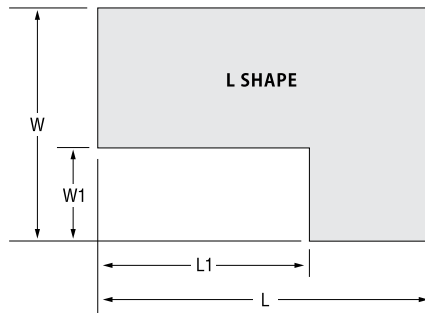
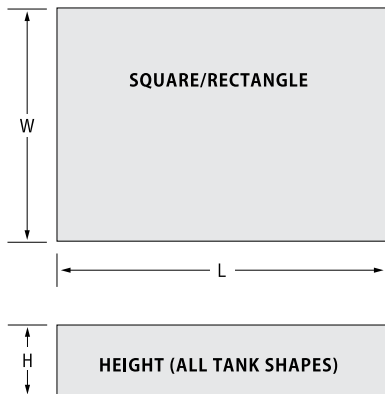
Oil Skimmer Yes No

Coolant Capacity _____ L

Coolant Flow Rate _____ L/min (total machine)

Additional Options _____

Additional Information _____

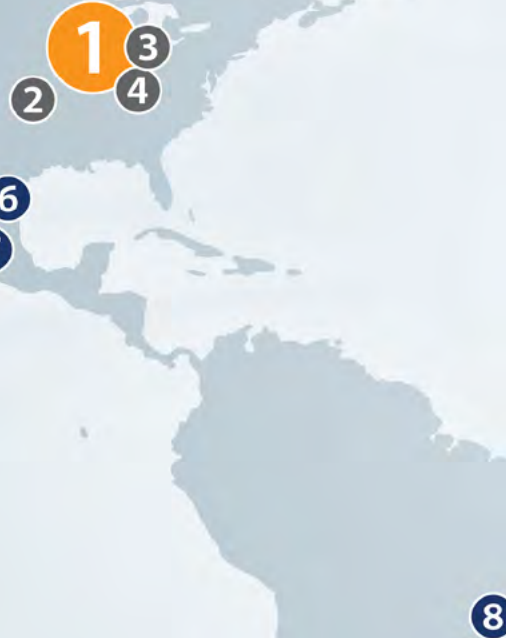


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