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.

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+49 89 96096-120 (fax)
info@hennig-gmbh.de

See pages 23-24 for a complete list of our worldwide locations / contact info
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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 (*ACCORDING TO ISO 3685)

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CONVEYOR SELECTION GUIDE BY CHIP FORM

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good: good; can be used in certain applications; not recommended; *can only be used with ferrous material
CONVEYORS 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
SCRAPER KIT service / replacement parts (see pages 11-12)
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

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.
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 & 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.

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<tr>
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<th>BELTS / BELT KITS</th>
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<td>12 Drive Chain</td>
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<tr>
<td>2 Torque Limiter Assembly</td>
<td>13 Flip Lid</td>
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<td>3 Inside Chain Guard</td>
<td>14 Gear Motor Sprocket</td>
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<td>4 Take-Up Bearing</td>
<td>15 Gear Motor</td>
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<td>5 Belt Sprocket</td>
<td>16 Adjustable Supports</td>
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<tr>
<td>6 LH Inner Guard</td>
<td>17 Hinge Kit (standard)</td>
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<tr>
<td>7 RH Inner Guard</td>
<td>18 Hinge Kit (with plain cleat)</td>
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<tr>
<td>8 Torque Limiter Key / Direct Key</td>
<td>19 Hinge Kit (with serrated cleat)</td>
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<tr>
<td>9 Belt Sprocket Key</td>
<td>20 Idler Shaft Assembly (if provided originally)</td>
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<td>23 Motor Cover</td>
<td>24 Caster Assembly (option)</td>
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<td>27 Scraper Blade Kit</td>
<td>28 Poly Scraper Blade Kit</td>
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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

![ Conveyor Parts Diagram ]

11
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.

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

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.
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

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 other 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 10μm 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.
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
**COMPANY** (complete address)

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<tr>
<td>Name</td>
<td></td>
</tr>
<tr>
<td>Title</td>
<td></td>
</tr>
<tr>
<td>E-mail</td>
<td></td>
</tr>
<tr>
<td>Phone</td>
<td>Fax</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Brand</td>
<td></td>
</tr>
<tr>
<td>Part #</td>
<td></td>
</tr>
<tr>
<td>Serial #</td>
<td></td>
</tr>
<tr>
<td>Belt Type</td>
<td>Hinge (Pl)</td>
</tr>
</tbody>
</table>

**MACHINE INFORMATION**

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Make</td>
<td></td>
</tr>
<tr>
<td>Model</td>
<td></td>
</tr>
<tr>
<td>Available References</td>
<td>Photos</td>
</tr>
<tr>
<td>Spindle Horse Power</td>
<td>hp</td>
</tr>
<tr>
<td>Available Power</td>
<td>440</td>
</tr>
<tr>
<td>Chip Material</td>
<td>Soft Steel</td>
</tr>
<tr>
<td>Kind of Chips</td>
<td>Fine</td>
</tr>
<tr>
<td>Chip Volume</td>
<td>in³/min</td>
</tr>
</tbody>
</table>

**CONVEYOR TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Field</th>
<th>Information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Intake Length</td>
<td>L1 mm</td>
</tr>
<tr>
<td>Max Length</td>
<td>L mm</td>
</tr>
<tr>
<td>Discharge Height</td>
<td>H mm</td>
</tr>
<tr>
<td>Max Width</td>
<td>W mm</td>
</tr>
<tr>
<td>Angle (45°, 60°)</td>
<td>A deg.</td>
</tr>
<tr>
<td>Width of Chip Chute</td>
<td>W1 mm</td>
</tr>
<tr>
<td>Height of Chip Chute</td>
<td>H1 mm</td>
</tr>
<tr>
<td>Inlet Height (minimum)</td>
<td>H2 120 mm</td>
</tr>
<tr>
<td>H2 200 mm</td>
<td></td>
</tr>
<tr>
<td>Belt Width</td>
<td>B mm</td>
</tr>
<tr>
<td>Foot Location (choose one)</td>
<td>O B O C C mm</td>
</tr>
<tr>
<td>Casters</td>
<td>Yes</td>
</tr>
<tr>
<td>Coolant Tank Required</td>
<td>Yes</td>
</tr>
<tr>
<td>Coolant Flow Rate</td>
<td>gal/min (total machine)</td>
</tr>
<tr>
<td>Coolant Slots</td>
<td>Left</td>
</tr>
<tr>
<td>Conveyor Speed (m/min)</td>
<td>2.2</td>
</tr>
<tr>
<td>Overload Protection</td>
<td>Current Sensor (standard)</td>
</tr>
<tr>
<td>Control Box Location</td>
<td>Top Front</td>
</tr>
<tr>
<td>Control Box</td>
<td>Yes</td>
</tr>
<tr>
<td>Paint (texture powder coated)</td>
<td>RAL</td>
</tr>
</tbody>
</table>

**INLET CROSS SECTION**

**LEFT SIDE PROFILE VIEW**

**FRONT VIEW**
QUOTE REQUEST

CHIP DISC FILTRATION

Please complete this form and email or fax to your desired location. See pages 23-24 for contact info.

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  ○ 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               

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

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 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

http://www.hennigworldwide.com

20
QUOTe REQUEST

AUGER CONVEYORS

Please complete this form and email or fax to your desired location. See pages 23-24 for contact info.

www.hennigworldwide.com

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 _________________ in³/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

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)*

<table>
<thead>
<tr>
<th>Name ____________________________</th>
<th>Title ____________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>E-mail __________________________</td>
<td>Phone ___________ Fax ___________ Date <em><strong>/</strong></em>/_______</td>
</tr>
</tbody>
</table>

**MACHINE INFORMATION**

<table>
<thead>
<tr>
<th>Make ____________________________</th>
<th>Model ____________________________</th>
<th>Available References □ Photos □ Drawings</th>
</tr>
</thead>
<tbody>
<tr>
<td>Type □ Lathe □ Milling □ Drilling □ Tapping □ Other ____________________________</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**COOLANT TANK TECHNICAL DATA**

<table>
<thead>
<tr>
<th>Tank Shape</th>
<th>○ Square/Rectangular ○ L Shape ○ T Shape ○ Other ____________________________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tank Size</td>
<td>L ___________ mm W ___________ mm</td>
</tr>
<tr>
<td></td>
<td>L1 ___________ mm W1 ___________ mm</td>
</tr>
<tr>
<td></td>
<td>L2 ___________ mm H ___________ mm</td>
</tr>
<tr>
<td>Tank Mounting</td>
<td>○ On Floor ○ In Pit ○ Other ____________________________</td>
</tr>
<tr>
<td>Tank Options</td>
<td>□ Casters □ Leveling Bolts □ Inspection Cover □ Removable Screen(s) □ Other ____________________________</td>
</tr>
<tr>
<td>Paint</td>
<td>(texture powder coated) ____________________________</td>
</tr>
<tr>
<td>Pump 1</td>
<td>○ None ○ Model ____________________________</td>
</tr>
<tr>
<td></td>
<td>▪ Flow Rate ___________ Pressure ___________ Voltage ___________</td>
</tr>
<tr>
<td>Pump 2</td>
<td>○ None ○ Model ____________________________</td>
</tr>
<tr>
<td></td>
<td>▪ Flow Rate ___________ Pressure ___________ Voltage ___________</td>
</tr>
<tr>
<td>Pump 3</td>
<td>○ None ○ Model ____________________________</td>
</tr>
<tr>
<td></td>
<td>▪ Flow Rate ___________ Pressure ___________ Voltage ___________</td>
</tr>
<tr>
<td>Filter</td>
<td>○ Single Canister Bag ○ Dual Canister Bag ○ Cyclonic</td>
</tr>
<tr>
<td>Required Filtration Level</td>
<td>____________ microns</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Float Switch</th>
<th>○ High Level ○ Low Level ○ None</th>
</tr>
</thead>
<tbody>
<tr>
<td>Oil Skimmer</td>
<td>□ Yes □ No</td>
</tr>
<tr>
<td>Coolant Capacity</td>
<td>____________ gallons</td>
</tr>
<tr>
<td>Coolant Flow Rate</td>
<td>____________ gal/min (total machine)</td>
</tr>
<tr>
<td>Additional Options</td>
<td>____________________________</td>
</tr>
</tbody>
</table>

**SQUARE/RECTANGLE**

<table>
<thead>
<tr>
<th>W</th>
<th>W</th>
<th>L</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
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</tbody>
</table>

**L SHAPE**

<table>
<thead>
<tr>
<th>W</th>
<th>W</th>
<th>L1</th>
<th>L1</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**T SHAPE**

<table>
<thead>
<tr>
<th>W</th>
<th>W</th>
<th>L1</th>
<th>L1</th>
<th>L2</th>
<th>L2</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**HEIGHT (ALL TANK SHAPES)**

<table>
<thead>
<tr>
<th>H</th>
<th>H</th>
<th>H</th>
</tr>
</thead>
</table>
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F: + 81 583 897435
kashida@enomotoweb.com

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- Coolant Filtration
- Coolant Tanks

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