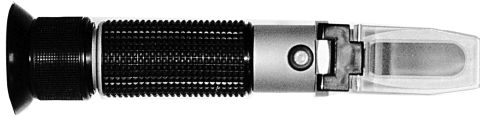


COOLANT MANAGEMENT

A

REFRACTOMETER

Rustlick™



The refractometer is a quick and easy tool for checking the concentration of your coolant. A drop of diluted coolant from your sump is placed on the eyepiece and viewed. The use of a refractometer can increase coolant and tool life and help to eliminate coolant waste.

Description	Part Number	Price Each
Refractometer	RUST-78095	\$141.55

DIGITAL REFRACTOMETER

NEW ITEM!

phase II



- Accurately measures coolant concentration
- Quick and easy procedure
- Needs only a few drops for test
- Optimizes coolant and tool life
- Features automatic temperature compensation (ATC) which makes temperature corrections unnecessary between 32°-104° F

Specifications:
 -Accuracy: +/- 0.1% +/- 0.00015
 -Minimum Division: 0.1% +/- 0.001
 -Measuring Range: 0-45% Brix
 -Original Point Setting: 0.1% 1.3330

Digital Refractometer
 Part # PH2-901-110
\$550.00 each

REFRACTOMETER



- Range 0-10 or 0-32%
- Prism aperture lets in a lot of light
- Diamond-knurled sleeve for good gripping
- Comfortable eyepiece with adjustable focus for easy reading
- Auto temperature compensation for shop areas with varying temperature
- Average use accuracy range
- Carrying case with sampler included

Description	Part Number	Price Each
Refractometer 0-10 Brix Scale	ZEB-OPT10	\$95.40
Refractometer 0-32 Brix Scale	ZEB-OPT32	\$95.40

REFRACTOMETER



- Range 0-18%
- Accurately measures coolant concentration
- Optimize coolant use and tool life
- Instructions included
- For water soluble and synthetics

Measuring Range	Graduation	Part Number	Price Each
0-18%	0.1%	A-8010-0018	\$99.00

SUMP MAINTENANCE

Rustlick™



TRIADINE 20 controls bacteria and fungus growth. Provides added protection to extend coolant life. Sterilizes sumps to prevent re-infestations of the micro-organisms which cause rancidity.

Size	Weight lbs	Part Number	Price
7.5 oz	1.25	RUST-77116-1	\$19.99
1 case (6) 7.5 oz	7.5	RUST-77116	\$99.75

ODOR CONTROL TABLETS

- Safe and easy-to-use
- Eliminates sump odors caused by hydrogen sulfide bacterial emissions
- Most effective way to control sump odor
- Contains no formaldehyde or harmful chemicals
- Safer and more economical than biocides
- Works best when used with Zebra Oxygenator



Description	Part Number	Price Each
Tube- contains 15 tablets	ZEB-XOCT25	\$25.20

OXYGENATOR™

In the absence of oxygen, anaerobes multiply, causing coolant to spoil. Injecting oxygen into the coolant inhibits anaerobic bacterial growth, extending coolant life.



- Extends coolant life
- Eliminates foul odors
- Maintain high oxygen levels
- Industrial-grade bronze air diffuser
- Fuel-grad tubing
- Power: 110v



Description	Application	Part Number	Price
Small Oxygenator	1-25 gal sump	ZEB-XBUB1200	\$22.50
Medium Oxygenator	26-50 gal sump	ZEB-XBUB5000	\$45.00
Large Oxygenator	51-100 gal sump	ZEB-XBUB8000	\$89.10

HARDNESS TESTING STRIPS

Prevent Coolant Pudding, Foam and Rust



NEW ITEM!

- Easy to use- dip in the coolant to match colors-results in 3 seconds
- 50 sticks per bottle will last one year per sump
- Non-hazardous
- A must for every shop

Description	Part Number	Price
Qty 50 Hardness Testing Sticks: 0-1000 ppm calcium carbonates and/or magnesium	ZEB-XWT50	\$23.40

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2010-11 Master Catalog

569

LATHE CHUCKS
LIVE CENTERS

VICE JAWS
VICE ACCESSORIES

STRAIGHT SHANK
COLLET HOLDERS

LATHE BUSHINGS
DRILL CHUCKS

CARBIDE INSERTS
THREADING/GROOVING

CUTTING TOOLS
MACHINERY

PRECISION TOOLS
DEBURRING

COOLANT/FLUIDS
TOOL STORAGE

COOLANT MANAGEMENT

CHUCK JAWS
LATHE WORKHOLDING

MACHINE VISES
MAGNETIC CHUCKS

SIMPLE DISC SKIMMER

- Maximizes coolant performance
- Handles heavy oil loads from coolant and washwater applications
- Intermittent-duty, surge protected motor
- One year warranty (lifetime on disk/wiper set)
- Up to 5 gallons per hour oil removal capacity
- 1/2"x12" (13x300mm) sump access needed (for 12" model)

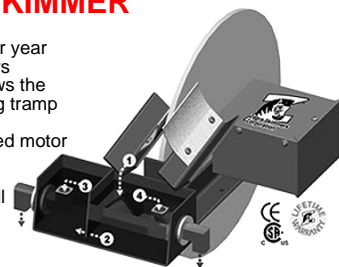


Access	Reach	Part Number	Price
1" x 12"	4.5"	ZEB-LH300	\$134.10
1" x 18"	7.0"	ZEB-LH460	\$220.50
1" x 24"	9.5"	ZEB-LH610	\$292.50

Maximum Temperatures:
 • 80° F (27° C) on poly belts for coolant
 • 212° F (100° C) on steel belts for wash water

SMART DISC SKIMMER

- Saves you nearly \$300 per year over Simple Disk Skimmers
- Integrated Diverter™ knows the difference between floating tramp oils and coolant
- Continuous-duty, fan cooled motor
- Rugged steel construction
- Lifetime warranty on disk and wipers, one year on all other parts



How The Diverter Works:
 1-Oils (tramp & coolant) enter
 2-Coolant sinks and passes under this weir
 3-Clean coolant returns to your sump
 4-Tramp oils discharge to waste container

Access	Reach	Part Number	Price
1" x 12"	4.5"	ZEB-GS4H300	\$195.30
1" x 18"	7.0"	ZEB-GS4H460	\$337.50
1" x 24"	9.5"	ZEB-GS4H610	\$358.20

RETENTION KNOBS
ER, DA, TG COLLETS

UNIVERSAL WHEEL SKIMMER

FEATURES:

- Exclusive bi-directional tramp oil drains
- Chemical and corrosion resistant frame and wheel
- Smaller footprint than a conventional old style wheel skimmer making it easier to install
- Easily and economically converts to 18" or high temperature wheels
- Removes up to 1.5 gallons of tramp oil per hour
- Prolongs Coolant Life
- Eliminates Tramp Oils
- Cuts Maintenance and Machine Downtime



The Universal Wheel Skimmer's unique injected molded frame is the result of modern engineering and manufacturing techniques. The design provides greater flexibility than conventional wheel skimmers in operation, wheel sizes and mounting.

Description	Motor	Part Number	Price
Molded Plastic Frame	120V 1Ph-.6AMP	RUST-78034	\$179.00

TOOLHOLDERS
TAP HOLDERS

SIDEWINDER™ TUBE SKIMMER

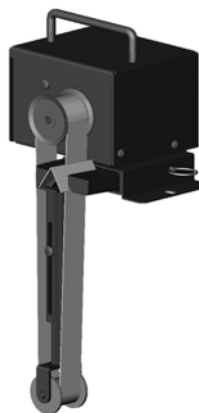
- Skims underneath conveyors, enclosed sumps, and hard-to-access areas
- Also works on oil spills
- Pick the reach you need: reach sizes available from the standard 8" model up to 95"
- Installs in seconds
- Industrial-grade pick-up tubing uses ceramic scraper
- Large oil discharge port
- Continuous-duty motor options
- One year warranty



Reach	Part Number	Price
8"	ZEB-ZVA8-08	\$291.60
11"	ZEB-ZVA8-11	\$291.60
14"	ZEB-ZVA8-14	\$291.60
Cartridge Replacements		
8"	ZEB-ZXCART8-08	\$53.90
11"	ZEB-ZXCART8-11	\$53.90
14"	ZEB-ZXCART8-14	\$53.90

BELT SKIMMER

- Steel, heavy-duty, rugged construction
- Removable, easy-to-clean collection tray
- Self-tensioning, 1" wide belt on fixed lower pulley (for short reaches)
- Dual wiper set with lifetime warranty
- One year warranty all other parts (except steel belts)
- Continuous-duty, fan-cooled motor
- 1 gallon per hour oil removal capacity
- 2" diameter minimum access required



Reach	Part Number	Price
8"	ZEB-BPF1-08	\$303.30
12"	ZEB-BPF1-12	\$312.30
18"	ZEB-BPF1-18	\$321.30
24"	ZEB-BPF1-24	\$330.30
Spare Belts		
8"	ZEB-BP-08	\$46.06
12"	ZEB-BP-12	\$50.96
18"	ZEB-BP-18	\$55.86
24"	ZEB-BP-24	\$60.76

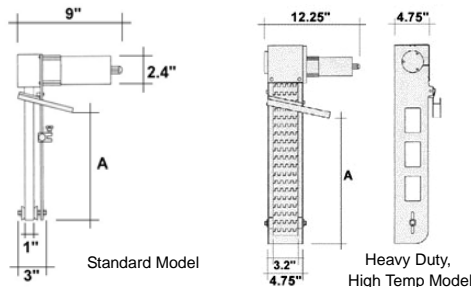
Maximum Temperatures:
 • 80° F (27° C) on poly belts for coolant
 • 212° F (100° C) on steel belts for wash water

INDEXABLE DRILLS
TURNING & BORING

OIL SKIMMER

An easy-to-use system that separates lubricating oils from emulsified water, which get mixed into the coolant tanks of CNC tooling machines. The mixture of lubricating oils and emulsified water can bring about various problems such as bacteria growth, unpleasant odors, deterioration of the emulsion, and skin irritation, causing machine stoppage in order to replace emulsion.

- **Standard Model**-Supplied with a 1" wide polyurethane belt and maximum operating temperature of 122°F. Operates at 4.5 volts (approx. 6 revs/min).
- **Heavy Duty High Temp Model**-Supplied with a 3.2" wide Kevlar chain and maximum operating temperature of 212°F. Operates at 12 volts (approx. 20 revs/min).



Standard Model



Heavy Duty, High Temp Model



Model	Extraction		Belt Size	Max Operating Temp F°	Part Number	Price Each
	Rate Gal/hr	Depth (A) in				
Standard 200	0.5	8	1" wide Polyurethane Belt	122°	DN48000	\$431.25
Standard 600	0.5	24			DN48002	\$613.53
Standard 800	0.5	56			DN48004	\$865.00
Heavy Duty High Temp 400	4	16	3.2" wide Kevlar Chain	212°	DN48014	\$1,624.51
Heavy Duty High Temp 800	4	32			DN48016	\$1,792.56
Heavy Duty High Temp 1200	4	48			DN48018	\$1,960.61

ENDMILLS, DRILLS
TAPS & REAMERS

ABRASIVES
MEASURING TOOLS

MRO & SAFETY
FLAT STOCK/DRILL ROD

Call Us Today For All Of Your Machine Tool Needs!

DRUM MIXER

These sturdy, corrosion-resistant mixers (which offer a significant advancement over traditional Venturi-type drum mixers) are used to automatically dilute and mix coolant concentrates with the proper amount of water. The Rustlick drum mixer comes with a series of color coded inserts (proportioning valves), each of which deliver a specific dilution ratio: 30:1, 20:1, 10:1, etc.

- Ensures proper mixture every time.
- Eliminates the concern of too rich/too lean concentrations.
- Eliminates messy mixing spills.



Description	Weight	Part Number	Price
Drum Mixer	3 lbs	RUST-78096	\$141.55

ECONOMY MIXER

- Properly mixing provides better emulsions and saves on raw material costs
- Maintaining a consistent concentration increases sump and tool life
- 14 metering tips for specific ratios
- Maximum viscosity of 500 SUS
- 30 day warranty only
- 48" discharge tube included (max length for delivery)
- Fits easily on 55 gal. barrels



Description	Part Number	Price
Economy Mixer	ZEB-MIX05120	\$102.60
Water Limiter, 15-150 adjustable PSI range	ZEB-MIXXWL-1	\$108.00

MACHINIST MIXER

- Separate water shut-off valve
- Machined from solid bronze casting with galvanized steel and pipe
- Stainless steel models available for caustic concentrates
- Maximum viscosity of 500 SUS
- 40" discharge tube included, max length delivery
- Minimum 25psi needed (75psi max)
- LIFETIME WARRANTY

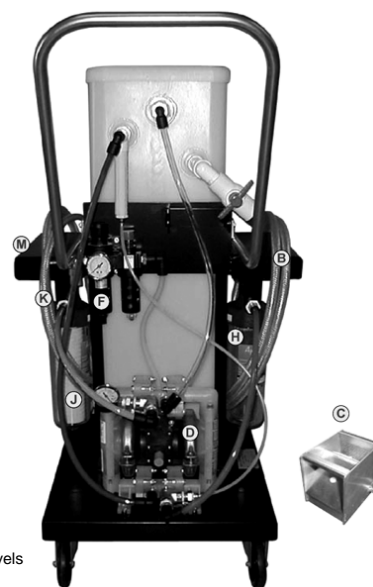


SIERRA™ PORTABLE COALESCER

The Zebra Sierra Portable Coalescer can help to extend life of straight cutting oils, removing water and particles for its reuse. It also improves the efficiency of tools and machining processes.



- A. Translucent tank w/spin-welded, leak-proof fittings empties in minutes and cleans up easily
- B. Crush-resistant hoses w/ magnetic hose holders
- C. Sumpster™ intake attachment included
- D. 1/2" durable air diaphragm pump handles multiple sump service and below ground applications
- E. ON/OFF lever (not shown) activates power to the pump
- F. Regulator provides for adjustable flow rate
- G. Pressure limiter (not shown) protects pump from damage due to over-pressurization damage
- H. 500 u stainless steel reusable pump pre-filter prevents large chips from damaging pump
- I. Baffled Anti-Turbulence System (BATS), a unique Zebra feature, removes entrained air, improving efficiency by 20% over other brands
- J. Polishing filter captures fines once the water portion has been separated
- K. Pressurized return delivers clean oil against gravity, allowing simple and efficient transfer to a holding tank, as necessary
- L. Rugged, powder-coated steel frame transports components easily (handle /hose rack not shown)
- M. Tow motor accessibility allows transport over floor obstructions or between plant levels



Description	Part Number	Price Each
Sierra Coalescent Skimmer	ZEB-FM60-7309	\$4,047.30

CNC SKIMMER

Tramp Oil Separator/Coalescent Skimmer



This user-friendly portable coolant skimmer removes floating and infused tramp oils from metalworking coolants. The superior portable design of the SC3000 is complemented by its dependability and ease of maintenance.

Description	Part Number	Price Each
Coalescent Skimmer	RUST-78100	\$2,175.50
Float (pair)	RUST-78101	\$141.55
20" filter Cartridge	RUST-78102	\$18.05

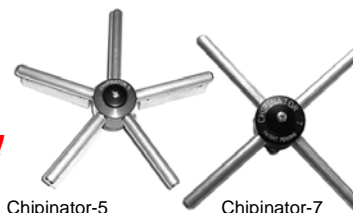
THE CHIPINATOR™

The Chipinator (patent pending) keeps your drain free on Haas™ CNC machine tools with an auger "Corkscrew" type chip removal system. The Chipinator runs off the existing programmable auger. The Chipinator is made from hard anodized 6061 aluminum and has 3 spring loaded aluminum blades designed for machines running aluminum and plastic. The device has withstood thousands of hours of testing. The Chipinator has a break away design so it cannot harm your machine.



Designed For HAAS™ Mills!

- Keeps your drain free of chips when running ALUMINUM or PLASTIC
- Eliminates broken cutters & scrap due to coolant starvation
- Allows you to run machine unattended
- Installs in less than 5 minutes!



Machine Auger Pitch	Part Number	Price
5"	CHIPINATOR-5	\$199.00
7"	CHIPINATOR-7	\$199.00

Call Us Or Visit Our Website For Our Complete Selection!