



AMCOL CORPORATION

# COOLANT SYSTEMS FOR WELDED TUBE AND ROLL FORMING

## SYSTEM DESCRIPTION

**The AMCOL Model 3076 Coolant Purification System in combination with CHARCOOL mill coolants will:**

**Maximize sump life.** Coolant lasts longer and is easy to maintain.

**Clean up your machine and parts.** Contaminants are washed from the process and removed in the purification system.

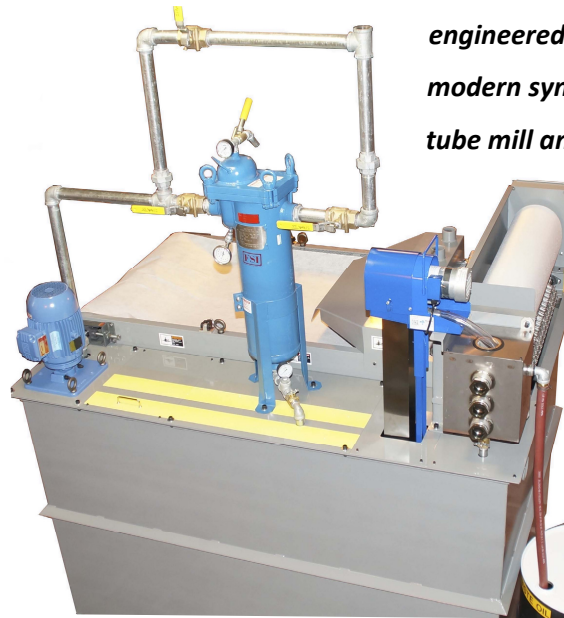
**Get improved cooling.** Cooling capacity is enhanced with solids and tramp oil removed.

**Reduce costs.** Coolant is separated from the tramp oil and returned to the system. Purified tramp oil has more value.

**With a best in class coolant and a properly designed coolant purification system, you can maximize productivity, quality, and profits!**

*The AMCOL Model 3076 Coolant Purification Systems are designed and*

*engineered to maximize the benefits of today's modern synthetic and semi-synthetic welded tube mill and cold roll forming coolants.*



*These closed loop in-line systems are an integral component of the roll mill coolant system.* Coolant from the mill, after forming, is pumped from area sumps or gravity fed to and purified through this system and sent back to the mill. The result is 100% filtration of the coolant.

**The AMCOL Model 3076 Systems include** an automatically indexing media filter (gravity bed filter), reservoir, belt-type tramp oil skimmer with coolant decanting reservoir, transfer pump, and an in-line bag filter with bypass. Three standard configurations with 75, 105 and 150 gallons per minute flow capacity are available.

## AMCOL MILL COOLANTS

**These systems work best when combined with AMCOL CHARCOOL Series tube mill and roll form coolants.** CHARCOOL sets

the industry standard by providing maximum rust protection, superior tool life, and long term sump life. CHARCOOL mill coolants are used in hundreds of rolling mills throughout North America and are recommended by many of the most reputable mill and tooling manufacturers in the industry.



### AMCOL CORPORATION

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FEATURING THE AMCOL 3076 COOLANT PURIFICATION SYSTEM AND CHARCOOL MILL COOLANTS

## 3076 COMPONENTS IN MORE DETAIL

- ◆ **Automatically Indexing Media Filter (AIMF)** - Commonly referred to as gravity bed filtration, the AMCOL

*AIMF's allow for virtually unattended removal of solid contaminants as the coolant is*

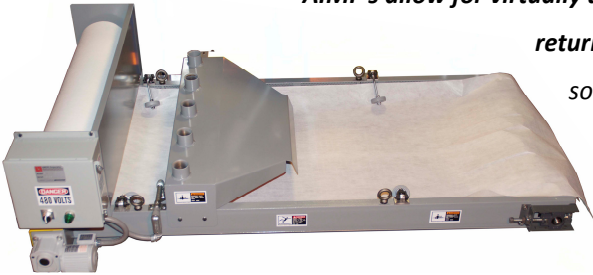
*returned to the mill. When the fabric on top becomes loaded with*

*solids, flow is restricted and the coolant level in the bowl rises*

*causing a float to actuate the conveyor drive and advance the*

*media. Coolant recedes as flow is resumed and the conveyor*

*stops. The process repeats automatically.*



- ◆ **Coolant Reservoir** - After passing through the AIMF, coolant collects in a reservoir that is sized relative to system flow. All of the system components are fitted to the reservoir. An overflow is included.

- ◆ **Oil Skimming and Decanting** - Tramp oils floating on top of the coolant in the reservoir are removed using a stainless steel belt skimmer. Coolant is decanted from the skimmed oil and returned to the reservoir.



- ◆ **Transfer Pump** - A close coupled centrifugal vertical end suction pump is used to generate coolant flow and pressure back to the mill. Pump capacity is designed to generate a 30 PSI discharge at or around the flow limitations of the AIMF. A strainer on the intake protects the pump impeller.



- ◆ **In-line Bag Filter** - Coolant is filtered and polished one more time as it is returned to the mill. A bypass is included for uninterrupted flow to the mill with lock-tag-test included to insure safe operation. Coolant temperature is monitored with a thermometer.

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### How to purchase these AMCOL products:

Complete systems are available in standard 75, 105, and 150 gallon per minute flow capacities. System components may also be purchased as stand alone add-ons to your existing mill coolant system.

CHARCOOL mill coolants are available in 5 gallon pails, 55 gallon drums, 330 gallon totes, and bulk. Let us help find the right product for you!