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ADVANTAGE THROUGH KNOWLEDGE
 VOLUME 61, V.1

FILTER SERIES

ITM holds over 30 patented machine designs

Applications



AFS-8-200 COOLANT FILTRATION SYSTEM

As a manufacturer of precision grinding machines, we know the importance of a precise, dependable coolant supply. Having this comprehensive coolant filtration system maximizes coolant effectiveness, longevity improving productivity and reducing disposal costs.

Filtration as small as 5 Microns

After a long period of research and testing, we selected DE coated candles in ITM Filter Systems enable filtration of particles as small as 5 microns versus 20 microns with conventional systems.

High Pressure Coolant Pumps

A variety of quality proven high pressure coolant pumps up to 800psi are available from selected manufacturers worldwide. Multiple pumps can be attached to each AFS-8-200 filter including pumps for “wheel scrubbing”.

Filter Panel



Operator Interface

Easy and safe operation by PLC or manual override with the use of simple controls and reference graphics and a LCD status panel that allows for manual adjustment of filter flush time and sludge dryer drying time.

Automatic Sludge Drying Cycle

ITM filters are equipped with a fully automatic sludge dryer in place of a standard vacuum system, to separate oil from the grinding sludge. After the filter has been dumped, the dirty oil with sludge is pumped into the dryer unit. The oil is separated and returned to the cleaning cycle by pressing it out of the sludge with the use of up to 6 bar (90 psi) air pressure. The cake, which is left, is then dried and automatically dumped into a disposal bin or further compressed by an automatic compactor.

Advanced Filtration System



Benefits of ITM's Coolant Filtration Systems:

- Large Oil Reservoir up to 2000 liters(530 gallons)
- For filtration of steel, carbide, ceramic, glass & other materials
- Filtration of particles as small as 5 Microns
- Cleaning rate per filter dome 200 - 300 l/min (53-80 gpm)
- 8 m² (86 ft²) filter area per dome
- Up to 50 bar (800 psi) coolant pressure
- Recovers more coolant than vacuum or centrifuge systems
- Extends coolant lifecycle
- Chiller rating 92,000 btu/h (options available)
- Coolant temperature maintained within 0.5 °C (1°F) for precision grinding

For more information on ITM machines, please visit us at www.itmfl.com



ITM AUTOMATIC SLUDGE DRYER SYSTEM
RENOWNED FOR ITS OIL-CLEANING, SLUDGE DRYING CAPABILITY

Sludge Dryer



Integrated with ITM’s Advanced Filtration System (AFS) unit is a proprietary Sludge Dryer System- a stand-alone unit for recycling grinding oil and water soluble coolant. With over 250 sludge dryers in various industries, ITM customers includes Kennametal, Caterpillar, Greenlee, TRW, SMAT, etc. ranging from cutting tool manufacturers to aerospace components manufacturers.

To optimize the performance of coolant filtration systems ITM developed this unit to recover coolant oil out of grinding sludge. It can be added to ITM’s Filtration system or any other existing system. The Sludge Dryer operates 24/7 in unmanned and fully automatic cycles, which is controlled by a reliable Programmable Logic Controller (PLC).

Sludge Tank



To separate the oil from the sludge, the mix of sludge and dirty oil is pumped into the dryer and the oil is pressed out by applying air pressure up to 6 bars. With this procedure almost all of the coolant oil is recovered and returned to the cleaning cycle, while the “cake” of compressed sludge, which is dry to a degree of 99.9%, is automatically dumped into a disposal bin.

ITM Automatic Sludge Dryer System can be used as a single unit or in conjunction with multiple units to accommodate central systems. When multiple units are used, all functions can be controlled by one central control cabinet. For more information on ITM’s integrated and standalone sludge drying system, contact us at 386-446-0500.

Sold to large tool manufacturer!



PEEL GRINDER, PPG

HSS, CARBIDE & STAINLESS
 BLANKS GROUND TO
 HIGH TOLERANCE

In Pipeline!



ROTARY TRANSFER, RTG

COMPLETE PRODUCTION
 OF TOOLS & PARTS IN
 UP TO 6 STATIONS

In Production!



UNIVERSAL FLUTE, UFG

FLUTE GRINDING WITH
 CONVENTIONAL OR
 SUPERABRASIVE WHEELS

Advanced 5µ Filtration



AFS-8-200, FILTRATION

INTEGRATED SLUDGE DRYER
 TO RECYCLE AND
 PROLONG OIL USAGE

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Featuring

ITM Sales Engineer: Mr. Tim Othy

International Tool Machines is proud to introduce Mr. Tim Othy who recently joined ITM and extends our foundation of outstanding customer service and grinding expertise to your region. Mr. Othy brings over 25 years of Mechanical and Electrical Engineering experience.

Mr. Othy is ready to get started on reaching prospects to “learn more about their tool manufacturing needs and to assist in upcoming projects that would help the customer decrease cost, cycle time and increase productivity”.

Contact us if you have any additional comments or questions regarding our Grinding Machines & Filtration Systems!

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