

FILTERTECH IS "ROLLING MILL FILTRATION"



For over 31 years, Filtertech has serviced the ferrous and non-ferrous rolling industry by providing state-of-the-art filtration and waste disposal systems for every facet of the process from hot & cold rolling, temper mills, morg oil systems, waste coolant disposal, alkaline cleaning, deionized water make-up, as well as aluminum roll oil recycling. When it comes to dedicated service and a record of continued innovative technology advancements in filtration, Filtertech is the industry leader.



▲ Pump base for 1500 gpm tandem cold rolling mill.

STEEL COLD ROLLING

For steel cold rolling applications, Filtertech offers highly efficient media filters, magnetic separators and complete filtration systems which clarify the oil-water emulsion as well as provide tramp oil removal and temperature control to remove excess heat from the system. Filtertech's systems are designed for either single stand or multiple stand mills in a centralized system design. Systems include transfer pumps, media filters, magnetic separators, reservoir tanks, decantation tanks, pumps, mixers, tramp oil skimmers, heat exchangers, valve stands, temperature, pressure and level control devices along with a control systems for completely automatic operation of the system and integrated with the rolling mill process controls. For more information on system design, request our Product Bulletin FT200 or for details on our media filters and magnetic separators, request our Product Bulletins FT215E and FT225. For related information, request Technical Paper FT104.



◀ Model MSI Magnetic Separator used in steel rolling mills



▲ Typical Cold Rolling Filtration System with Flatbed Vacuum Filters and Magnetic Separator Clarifiers.

TEMPER MILL ROLLING

For both direct application and recirculative temper mill applications, Filtertech offers complete turnkey systems with reservoir tanks, filter feed and clean supply pumps, filters, interconnecting piping with control devices and control panel for completely automatic operation.



▲ Direct Application Wet Temper System.

ROLL GRINDING

For the grinding of work rolls, Filtertech provides complete turnkey coolant filtration systems which include one of several high-efficiency clarifiers depending upon the application. Also included in the system is a reservoir tank, filter feed and clean supply pumps, interconnecting piping, and system controls. These efficient coolant filtration systems enable very fine finishes to be achieved in the grinding process and reduced coolant system maintenance. For additional information on our system design concepts and various system clarifiers, request our Product Bulletins FT200, FT215E, FT216B, FT218B, FT223A, FT226, and FT227A.

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ALUMINUM ROLL OIL RECOVERY

In the production of rolled aluminum sheet or foil, it is inevitable that the roll oil will become contaminated by heavy hydrocarbon oils and greases as a result of leaks from hydraulic systems, bearings and gearbox oils. To recover the spent roll oil, Filtertech offers a model VDU Vacuum Distillation Unit which generates a high vacuum to distill over the roll oil and additives for reuse. In many facilities the VDU is also used to precondition the neat (virgin) oil before being used. See our Product Bulletin FT209B for more information on our complete line of vacuum distillation units.



◀ *Model APF
Automatic
Pressure Filter.*

*Model FLA High Vacuum
Flatbed Filter for large flow
systems.*



WASTEWATER / COOLANT DISPOSAL SYSTEMS AND DEIONIZED WATER MAKE-UP

For the waste minimization and disposal of various rolling mill coolants and aqueous cleaners, Filtertech offers several treatment options. The Filtertech Model TEB wastewater evaporator removes the water phase from the coolant through evaporation. The Filtertech Model UF Ultrafiltration System removes the water phase through membrane separation. Both processes reduce the waste disposal volume significantly to minimize your overall disposal cost. To provide contaminant free make-up water for various cold rolling processes, Filtertech offers a deionized water make-up system utilizing reverse osmosis technology that provides deionized water as make-up for evaporative losses and eliminates build-up of contaminants in the process. These systems also include any pretreatment when necessary to provide long membrane life. Request Product Bulletins FT212C and FT221A for more information on our wastewater evaporators and Ultrafiltration systems. For more information on our complete line of Reverse Osmosis Systems, request our Product Bulletin FT228.

Note: All literature is available upon request or can be easily downloaded from our website www.filtertech.com.



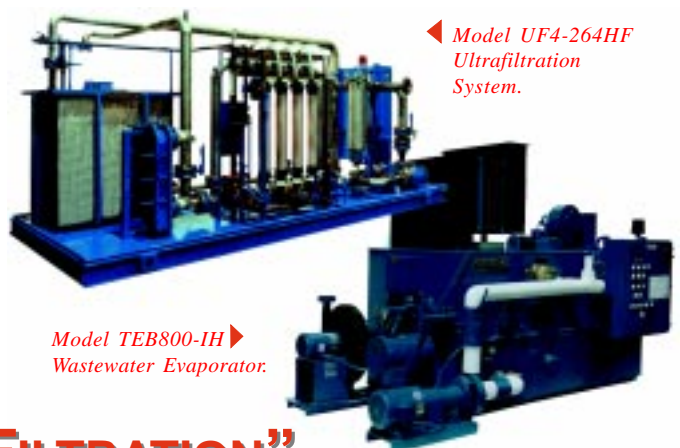
◀ *Model VDU-30 Vacuum
Distillation Unit with
water stripper.*

ALKALINE STRIP CLEANING

For alkaline cleaning of steel strip, Filtertech offers an automatic pressure filter (Model APF) to remove the fine particulates generated in the processes. In addition the pressure filter provides excellent clarity for zinc phosphating baths as well. For additional information on our fully automatic pressure filter, request our Product Bulletin FT219A.

ALUMINUM HOT ROLLING

For aluminum hot rolling applications, Filtertech offers highly efficient media filters, and complete filtration systems which clarify the oil-water emulsion as well as temperature control to remove excess heat from the system. Filtertech's systems are designed for various mill configurations in a centralized system design. Systems include heat transfer pumps, media filters, reservoir tanks, pumps, heat exchangers, piping systems, temperature, pressure and level control devices along with a control systems for completely automatic operation of the system and integrated with the rolling mill process controls. For more information on system design, request our Product Bulletin FT200 or for details on our media filters, request our Product Bulletins FT215E.



◀ *Model UF4-264HF
Ultrafiltration
System.*

*Model TEB800-IH
Wastewater Evaporator.*

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