



DEWATERING SOLUTIONS



DEWATERING SOLUTIONS

Advance solutions for tailings management, concentrates dewatering & waste treatment.

The combination of desliming, thickening, and filtration technology allows TH to offer a wide range of solutions for dewatering metal concentrates, lithium, and coal, as well as treating all types of tailings for the mining industry. Their solutions stand out for their mechanical simplicity and robustness, which facilitate the operation and maintenance of the equipment, as well as ensuring lower OPEX compared to other market solutions.

Furthermore, TH offers a wide range of services, including technological consultancy, spare parts service, technical assistance, and local support worldwide through its extensive network of branches in key countries for the industry.

With over 50 years of experience and a constant commitment to innovation, TH solutions are a technological benchmark worldwide. Currently, TH collaborates with some of the world's most important mining companies, and its solutions and equipment have been successfully implemented on all five continents.

Benefits

- › 3 process in one.
- › Improvement of Filtration Quality.
- › Up to 250 T/h per Filter Press.
- › Reduction of Operating Costs.
- › Lower Energy Consumption.

Applications

Tailings

Mine Tailings



Metal Concentrates

Polymetallic concentrates & rare earths



Coal

Coal Dewatering / Tailings Management



Lithium

Lithium refineries / Lithium brines or Spodumene



ADVANCED TAILINGS MANAGEMENT SOLUTIONS

Advanced solutions and equipment for the concentration of tailings from mineral processing. Extensive experience in hydrocyclone solutions, dewatering, thickening, pumping, and filtration aimed at reducing or eliminating tailings ponds.

EQUIPMENT



» Processing Integral Solutions

We are a company specialized in the design, construction, and supply of complete facilities for tailings treatment. Our extensive experience enables us to develop customized solutions.



» HCH and HCM Hydrocyclones

TH designs and builds hydrocyclone equipment in a broad range of models and sizes to ensure high treatment capacity for the classification and separation of fine particles in solid/liquid suspensions.



» THDS Dewatering Screens

Designed to work with high frequencies, allowing for the regulation of amplitudes. Facilitates maintenance, thanks to the incorporation of modular design polyurethane filter panels with screwless fastening, enabling easy replacement.



» APNQ – APNP – APN – APNH Filter Press

TH filter press design is based on mechanical simplicity and robustness which makes for easier operation and maintenance of equipment. It also ensures lower operating expenses (OPEX) compared to other solutions in the market. 100% automated and with a production capacity of up to 250 tph.



» SIX Slurry Pump

With their simple and robust design SIX positive displacement slurry pumps are capable of pumping even the most abrasive slurries while working in high operating ranges (up to 200 m³/h and up to 16 bar).



» NK-P/H/PP Thickener

TH supplies a wide range of thickeners for separating solids from liquids using flocculation and sedimentation, designed to ensure effective phase separation in mining product treatment, aggregates and environmental processes.



» NK-CL Paste Thickener

NK-CL paste thickeners produce underflows concentrated to near their limit of pumpability, improving underflow densities of conventional thickeners.

SUCCESS STORIES

Treatment plant for polymetallic tailings from concentrator plants.

- . Customer: Empresa de Servicios Ambientales - Asociación de Ingenios Potosí S.A. (ESA-AIP).
- . Industry: Mining.
- . Country: Bolivia.
- . Application: Tailings Management.
- . Production: 160 T/h

More success stories
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METAL CONCENTRATES DEWATERING SOLUTIONS

Complete solution for polymetallic concentrates (copper, zinc, lead), iron ore, or rare earths dewatering. Broad experience in thickening, pumping and filtration equipment for ensuring concentrates with the required levels.

EQUIPMENT



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» NK-P/H/PP Thickener

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» Auxiliary Components

TH integrates several auxiliary components into its solution for filtering metallic concentrates, among which the following are highlighted: Hydraulic Power Unit, Bomb Bay Door, Dip Tray, and Squeezing Unit.

SUCCESS STORIES

Copper, zinc and lead concentrate dewatering plant.

- . **Customer:** Aurelia Metals Limited (AMI).
- . **Industry:** Mining.
- . **Country:** Australia.
- . **Application:** Copper / Zinc / Lead.
- . **Production:** 17.5 T/h (copper), 15.2 T/h (zinc) and 17.0 T/h (lead).

Silver concentr ate dewatering plant.

- . **Customer:** Minera Lambol S.A.
- . **Industry:** Mining.
- . **Country:** Bolivia.
- . **Application:** Silver.
- . **Production:** 0.5 T/h

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COAL CONCENTRATE & TAILINGS DEWATERING

We assist our clients with coal concentrate pulps dewatering complete solutions, of as well as with advance coal tailings management technology.

EQUIPMENT



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SUCCESS STORIES

Coal concentrate dewatering plant.

- . Customer: Anglo Coal & Exxaro.
- . Industry: Mining.
- . Country: South Africa.
- . Application: Coal.
- . Production: 130 T/h

Coal tailings dewatering plant.

- . Customer: Naresh Kumar.
- . Industry: Mining.
- . Country: India.
- . Application: Coal Tailings.
- . Production: 30 T/h

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FILTRATION SOLUTIONS FOR THE LITHIUM INDUSTRY

Filtration solutions for lithium refineries and lithium carbonate processing plants, either through lithium brines or spodumene. We are one of the few companies in the market with proven experience in lithium mining and refining processes.

EQUIPMENT



» APN Filter Press

Developed for medium-capacity filtration processes of metallic minerals, industrial minerals, coal, and tailings. Its extensive range offers numerous configuration options. They can include plates of various sizes, materials, and configurations (chamber or membrane). 100% automated.



» APNH Filter Press

APNH Large Capacity Filter Presses (up to 250 tph of dry cake) has been specifically designed for high-pressure filtration processes, making them the ideal equipment for mining tailings filtration. Its extensive range offers numerous configuration options. 100% automated.



» SIX Slurry Pump

With their simple and robust design SIX positive displacement slurry pumps are capable of pumping even the most abrasive slurries while working in high operating ranges (up to 200 m³/h and up to 16 bar).



» Auxiliary Components

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SUCCESS STORIES

Filtration solution for lithium refinery.

- . **Customer:** Tianqi Lithium.
- . **Industry:** Mining.
- . **Country:** Australia.
- . **Application:** Lithium refineries.
- . **Production:** 28.5 T/h (TAS) - 3.5 T/h (Gypsum).

Lithium brines Filtration plant.

- . **Customer:** Galaxy Resources (Under construction).
- . **Industry:** Mining.
- . **Country:** Argentina.
- . **Application:** Lithium brine.
- . **Production:** 11.5 T/h (Brine liming process) - 1.5 T/h (Brine softening process).

More success stories

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SERVICES

TH provides a variety of services to support our customers, from the beginning to the end of the useful lifetime of their projects. From specialist technical/sales contacts, to site visits, to providing after sales technical service and supplying spares, TH is there in support.

» Engineering



» Testing and analysis laboratory



» After sales service



» Plant Audits



» Technical pre-sale



» Project Management





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