Mineral Solutions
Systems and Equipment for the Mining and Metallurgical Industries
Build with confidence. Build with WesTech process equipment in your next liquid/solids separation system. From Acid Mine Drainage to Zinc Tailings, WesTech will add value to your next project for years to come.

**Work with WesTech for:**
- Whole system design, supply, and construction
- Hassle-free implementation
- Open design consultation
- Quality equipment with long life cycles
- Superior service in every step of the process

**Mineral Process Solutions**
WesTech offers solutions for mineral beneficiation, tailings processing, mine, and environmental water treatment. WesTech also provides package plants for smaller operation needs.

For more than 40 years, WesTech’s long experience in the mineral industry has been applied to hard rock and industrial minerals applications such as:

- Alumina
- Bauxite
- Coal
- Copper
- Gold
- Iron Ore
- Kaolin
- Kimberlite
- Lead
- Magnesium
- Mineral Sands
- Molybdenum
- Nickel
- Oil Sands
- Phosphate
- Potash
- Silica
- Tin
- Trona
- Uranium
- Zinc
- Others
Process Expertise
Reliable Equipment
Responsive Systems
WesTech Complete Systems

WesTech’s liquid/solids separation experts design, engineer, and provide seamless integration to your overall plant design. WesTech’s system approach saves you time and resources while meeting your process objectives.

- Custom system design and integration
- Quality equipment with longer life cycles
- Superior service from concept, to startup, and well after the project is complete
- Electrical and piping design
- Project consultation, including laboratory bench-scale, field, and pilot testing

WesTech Process Manual
The WesTech Process Manual contains more than 40 process flow sheets and their accompanying write-ups. It also includes in-depth explanations of WesTech process equipment, as well as a section dedicated solely to relevant and varied case studies. See all of our process flows sheets at:

westech-inc.com/process
Equipment for Every Step

WesTech offers a wide array of process equipment for single applications or for complete system packages.

**Sedimentation**
- Clarification
- Thickening
- Paste thickening
- Flocculation
- Solids contact clarification

**Filtration**
- Vacuum filtration
- Pressure filtration
- Media filtration

**Systems**
- Process solution integration
- Pumping systems
- Chemical feed systems
- Optimization
- Plant automation

**Specialty Screening**
- Media retention screens
- Linear screens

**Other**
- Polishing systems
- Reactive chemistry
- Particle classification

Now Offering Tower Press and Ceramic Disc Filtration

The WesTech Tower Press filter delivers optimum production performance and availability for maximum dewatering in a wide range of industrial and minerals applications, including fine iron ore concentrates, leach residues, metallurgical precipitates, and more. Other key benefits include low maintenance and operational costs, as well as fully automatic operation.
1. Acid Mine Drainage (AMD)
WesTech AMD technologies include high-density sludge processes, innovative reactive chemistry, and proven separation and dewatering equipment.

2. Pre/Post Solvent Extraction
Reduction of “crud” is critical in solvent extraction processes. WesTech’s wide range of filtration and separation equipment, buoyant media clarifiers, and double-vee hopper clarifiers ensure proper performance in your SX-IX circuit.

3. Countercurrent Decantation (CCD) Circuit
CCD for recovery of valuable liquids or solids is a core WesTech technology. Combining efficient inter-stage mixing and state-of-the-art sedimentation provides high process performance for multi-stage washing needs.

4. Scrubber Treatment
Scrubber treatments include weak acid neutralization as well as hydrometallurgical recovery of values from smelter exhaust gases. WesTech’s thickening, clarification, and filtering equipment meets the needs of these demanding services.

5. Concentrate Thickening and Dewatering
Flotation concentrates are easily thickened and dewatered with WesTech HiFlo™ thickeners and Ceramic Disc filters. State-of-the-art feed systems, froth suppression, and high-capillary action ceramics make WesTech the supplier of choice for your concentrate needs.

6. Mill Water Treatment
The demand for water in mineral processing is often greater than its availability. WesTech has the expertise and technology from raw water to reuse which ensure consistent water quality for your milling and process requirements.

7. Tailings Treatment and Water Recovery
WesTech’s technologies push forward tailing performance with HiDensity™ thickeners, large-volume Horizontal Belt filters and paste generation – all keys in the evolution of tailings disposal and water recovery.

8. Paste System Increase in Tailings Dam Capacity
WesTech’s range of PasteThick™ technologies, Deep Bed™, HiDensity™, TitanTraction™ thickeners, and paste systems, are proven to increase tailings impoundment volume, reduce tailings storage risk, and increase overall plant water recovery.

Contact WesTech to learn more about these two filtration options for your next project build, upgrade, or spare part needs.
What You Might Not Know

WesTech is known for integrity, customer service, and process expertise. While it has long been an important supplier in mineral liquid/solids separation, there is a lot more to know about WesTech.

- **WesTech is an employee-owned company.** This creates a deep commitment to the success of each project.
- **Worldwide coverage** with offices and technology centers in United States, Brazil, China, India, and South Africa.
- **WesTech’s expertise in minerals** beneficiation is being used around the globe. WesTech’s products are in active use on every major continent.
- WesTech also supplies **industrial equipment** for refineries, power plants, agricultural operations, manufacturing sites, steel mills, and much more.
- WesTech has been operating for more than 40 years and now counts more than 15,000 installations worldwide.

**WesTech Works With the Best**

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...and Many More

**Support and Service**

Whether it is lab testing to determine the right process, or having field service personnel install new parts, WesTech is committed to help keep your plant running.

- **Electrical/programming**
- **Field service**
- **Full-service parts department**
- **Computational Fluid Dynamics (CFD)**
- **Upgrades and retrofits**
WesTech’s team and systems deliver high-value performance.

**WesTech’s Value**
We’re confident your experience with WesTech will be one of the best experiences in your career. We will deliver more value and reliability to your project than any competitor in the market.

Global Reach
WesTech equipment includes the support of a global network of experienced engineers and qualified sales agents. WesTech maintains offices and partnerships throughout the world to give you access to our products and services. Contact WesTech to arrange a visit with a local representative in your area.
WesTech Minerals Equipment

**Clarifiers**
- Buoyant Media Clarifiers
- CONTRAFAST® High-Rate Clarifiers/Thickeners
- Flocculating Clarifiers
- Metallurgical Contact Clarifiers
- RapiSand™ Ballasted Flocculation
- Solids CONTACT CLARIFIER™
- SuperSettler™ Inclined Plate Settlers

**Heavy Duty Drives**
- Bridge Supported Shaft Drives
- Column Supported Cage Drives
- Replacement Options for All Manufacturers
- PasteThick™ Drives
- TitanTraction™ Drives

**Dewatering**
- Ceramic Disc Vacuum Filters
- Disc Vacuum Filters
- Horizontal Belt Vacuum Filters
- Plate and Frame Filters
- Precoat Vacuum Drum Filters
- Rotary Vacuum Drum Filters
- Tower Press Filters

**Granular Media Filtration**
- Circular & Rectangular Top Gravity Filters
- CentTROL® LP Cluster Filters
- MULTICELL® Horizontal Pressure Filters
- MULTIWASH® Filtration Process
- Multi-Tech™ Multiple Barrier Filtration Systems
- SuperSand™ Continuous Backwash Filters
- Vertical Pressure Filters
- WWETCO FlexFilter™

**Screens**
- CIP / CIL Media Retention Screens
- RIP / RIL Media Retention Screens
- Linear Trash Screens
- Rotary Drum Filter Screens
- Screw Classifiers

**Tankage**
- Anchor Channel Tanks
- Elevated Tanks
- Mix Tanks
- Reaction Tanks
- Steel Bottom Tanks
- Supply and/or Field Erection

**Thickeners**
- AltaFlo™ High-Rate Thickeners
- Conventional Thickeners
- Deep Bed™ Paste Thickener
- HiDensity™ Paste Thickener
- HiFlo™ High Rate Thickeners
- Swing Lift Thickener
- TitanTraction™ Thickener
- TOP™ Thickener Packages
Man Camp Potable Water
AltaFilter™ Ultrafiltration Membrane Systems
AltaPac™ Ultrafiltration Package Systems
Tri-Mite™ & Trident® Package Plants
Water Boy™ & Aquarius™ Package Plants

Man Camp Wastewater
BioTreater™ Biological Treatment Systems
ClearLogic™ MBR Systems
STM-Aerotor™ IFAS Package Systems

Services
Bench Scale Feasibility Testing
Field Pilot Studies
Installation and Erection Services
Mechanical Evaluations
Plant Process Audits
Pilot Rental Equipment:
  • AltaFlo™ High-Rate Thickeners
  • AltaPac™ Ultrafiltration Package Systems
  • Buoyant Media Clarifiers
  • Granular Media Filters
  • High-Rate Thickeners
  • Horizontal Belt Filters
  • Linear Screens
  • Paste Thickeners
  • Precoat Filters
  • SuperSand™ Continuous Backwash Filters

Parts, Field Service, and Training
Full Service Parts Department
Installation and Erection Services
Mechanical Evaluations/Audits
Operator Training
Process Training
Regional Service Technicians

See our website or contact us for the latest equipment line.
wwestech-inc.com or 801.265.1000