Bulk Material Equipment

8122 Threadtail St | Conroe, TX 77385
Mobile: 1-214-601-2577
Email: Sales@bulkmaterialequipment.com
www.bulkmaterialequipment.com

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BME Company Overview

Bulk Material Equipment, with corporate offices located in Conroe, Texas, is an industrial Design/Build Contractor and Manufacture's Rep firm that specializes in dry bulk solids material handling, processing, storage, packaging, air pollution control equipment & systems, offering EPC Services for the equipment we provide. Founded in 2015, the company has grown steadily, and serves a wide array of industries nationwide.

The company was built upon the foundation of consistent execution of projects – high quality equipment and services, on-time delivery, and high value to each of our clients. We specialize in projects that are critical to our clients, where delays and downtime are not an option.

Our greatest asset is our study of dry bulk solids particles: angle of repose, specific gravity, bulk density, segregation, degradation, agglomeration, bridging, corrosive & explosive properties, how they dry, screen, blend, crush, flow, feed, store, package and are captured in a dust collector. We are considered SMEs in the equipment we provide.

Engineering services include mechanical, equipment, structural, civil, process, chemical, power, controls, instrumentation, controls systems integration, computer aided drafting services, technical services, and project management and consulting.

Construction Services include equipment, electrical, instrumentation, control systems, civil, structural, piping, mechanical, concrete and erection.

Fabrication Services include structural steel, conveyors, hoppers, chutes, custom BME designed equipment, control cabinets, MCCs, handrails, ladders and stairs and platforms.

Our strategy is to offer all the engineering, construction, and fabrication services necessary to size, manufacture, integrate and commission the equipment we provide to our customers' existing, or greenfield plants turnkey.

Below you will find information on our trusted Channel Partners on the Equipment side of our business.

We look forward to exceeding your expectations,

Thomas Meade

President and CEO

Thomas@BulkMaterialEquipment.com

Sales@BulkMaterialEquipment.com

BulkMaterialEquipment.com

BME Line Card

THE Young INDUSTRIES, INC.

PNEUMATIC CONVEYING SYSTEMS

We offer positive pressure, negative pressure, and closed loop Dilute Phase Pneumatic Systems for handling powders, pellets, or granules. Dilute Phase Systems are used when a variety of feed configurations may be required and are almost always used when handling toxic materials to avoid accidental discharge to the atmosphere. When required, step line conveying systems can be employed to provide relatively constant velocities to minimize product degradation. These systems can be designed per NFPA standards for combustible powders.

We also offer dense phase pneumatic systems when low conveying velocity is required. With our Multi-Phase system, degradation of your product is not a concern. You will not get fines, angel hair, or changes in your material's particle size while conveying, even to the furthest destination points. You will not experience surging, hammering, or vibration of your piping and building supports. Once installed, the system will automatically control the start-up and conveying of your product under the various process conditions.

TESTING

We maintain a 9,000 sq. ft. research lab and testing center. The lab is used to provide solutions to customer problems in pneumatic conveying, mixing, blending, size reduction, and air pollution control.

Our facility is equipped with bench testing equipment that can evaluate customer's materials and provide data to our engineers for use in system design. It features a computerized data acquisition and control system that is used to operate and monitor various pneumatic processes. This system logs all the pressures and air volumes that are later used to evaluate performance.

The lab offers a full line of equipment with utilities such as steam, compressed air, water, and electrical. There are also provisions for using nitrogen or inert gas as a conveying media. Please see below for a more complete list of our lab capabilities.

FACTORY ACCEPTANCE TESTING

The Factory Acceptance Test (FAT) is a major project milestone where any equipment or system can demonstrate that it meets the specifications of the customer's system, process, and manufacturing design. The specific tests and inspections that comprise a FAT are determined by the equipment being tested and customer's needs.

Users of process equipment know the trials and tribulations of installing and starting up new equipment. Most processes involve using a combination of components that may require electrical wiring, compressed air, plumbing, dry bulk handling, liquid additions, and PLC controls. Until the equipment is installed and running, it is impossible to work out all the bugs. Installing equipment on site with contractors for electrical, plumbing, rigging, and controls is a delicate balancing act with the end goal to have equipment fully operational by a critical date. The larger the process system the more potential for problems. These problems may be minor, but since contractors are on site and waiting for a fix, many man hours can be lost. Hence the value of the FAT: saving you time and money during installation and start-up.

THE Young INDUSTRIES, INC.

THE Young INDUSTRIES, INC.

ADVANCED TECHNOLOGY PROVEN DESIGN

YOUR COMPLETE U.S.A. MADE SOLUTIONS PROVIDER

Contact Us :
+1 (800) 546-3165
www.younginds.com

MIXERS & BLENDERS

Thorough blending doesn't have to waste power. Our Horizontal Mixers give you a precise match of horsepower-to-load requirements. We ensure the motor is accurately sized for energy efficiency by taking the time to analyze your product, process, and capacity needs. The same holds true for the rest of the design as well you get exactly the features you want and need. Laboratory sizes are available!

BULK BAG UNLOADING SYSTEMS

We provide equipment ranging from a single Bulk Bag Unloading Frame to a complex discharging system with provisions to weigh, convey, and control using state-of-the-art PLC systems. Our patented low headroom design allows you to unload bulk bags safely with minimal headroom clearance. Custom frame designs and integral dust collection systems are available.

DIVERTER VALVES

Our Diverter Valves are engineered to reduce your total cost of ownership. These two-way valves for gravity or pneumatic systems are built using high quality materials and modern manufacturing processes which results in longer service life and the industries' lowest air or gas leakage between diverter legs. On most models, maintenance and cleaning can be done without removing the valve from the convey line.

FILTER BAG DUMP STATIONS

Our Self-Contained Filter Bag Dump Stations offer the industries' most efficient dust control when dumping bags or drums. These NIOSH tested units have no loss of product through a central dust collection system. With portable, glove box, and empty bag compactor options, these units offer an all-in-one solution for handling and adding bagged materials to your process. Custom designs available.

AERO-MECHANICAL CONVEYORS

We have been supplying Aero-Mechanical Conveyors since 1985. Constant innovation has led to an industry leading design that addresses the needs of today's powder handling applications. An internal rope assembly traveling at high velocity creates a moving column of air which fluidizes and suspends your material, all while running horizontally, vertically, or any angle in between.

SILENTFLOW BINS

The SilentFlow® Bin Discharger consists of a hopper cone fully lined with TransFlow® fluidization media which distributes and controls low-pressure air or gas. This significantly reduces the coefficient of friction between your bulk material and the cone surface which results in a positive flow of the stored materials; like white pigments, carbon black, and calcium stearate.

BAG COMPACTORS
SCAN FOR MORE INFO

MULTI-PHASE® PRODUCT PUMPS

A compact, efficient, self-contained, easily installed, and dust-free system for the conveying of powders and granular materials. It's a low-cost solution for transferring raw material and additives from bulk containers to your process equipment. Using plant compressed air or nitrogen, these units are specifically designed for applications where conventional pneumatic systems are economically impractical.

UNI-CAGE DUST COLLECTION

Pulse jet operation is the heart of the self-cleaning system in our filters. The cleaning cycle is continuous which allows those bags that are not in cleaning mode to continue filtering the airstream. Bag replacement is easy with external bag replacement there is no need to enter the dusty bag house; all bag maintenance is performed from the clean air side. Custom options are available.

POWDERFLOW® BUTTERFLY VALVES

With the PowderFlow® Butterfly Valve, fluidization and conditioning starts in the valve itself. This is the lowest point and best location to stimulate material flow in the process vessel above. The disc of the valve is lined on both sides with TransFlow® fluidization media which promotes material flow without obstructing it.

STINGER® SCREW FEEDERS

When accuracy is a must, our Stinger® Screw Feeders offer unbeatable control handling difficult and/or cohesive materials. These units are suitable for either batch or continuous gravimetric/volumetric feeding. We offer a wide variety of control options with the expertise you need to meet your specific application.

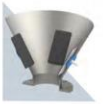
ASME U / UM CERTIFIED
SCAN FOR MORE INFO

ASME

DROP-THRU ROTARY VALVES

From standard to high pressure and/or high temperature applications, our Drop-Thru Rotary Valves are fully customizable. Different models offer higher throughput capacity, lower headroom, and the largest variety of inlet/outlet options in the industry. We also offer a wide range of rotor types, NFPA compliant valves, and complete refurbishing services, regardless of the original manufacturer or model.

TRANSFLOW® AIR PADS



TransFlow® Aeration Pads are used to fluidize fine powdered bulk materials to start and maintain flow out of hoppers, bins, and silos. When added to existing vessels, these pads distribute air or gas uniformly causing positive flow of the stored material. This allows successful handling of materials that have sluggish flow characteristics like lime, flour, soda ash, bran, clay, carbon black, sawdust, detergents, and resins.

GRAVITY BLENDERS

Weight variations in package filling can occur because of product segregation in your material handling system. Thorough blending reduces weight variations for more accurate volumetric filling, reducing overfill and product giveaway by as much as 50%. These units require no energy, need virtually no maintenance, and most have no moving parts. Available in custom sizes and configurations.

QUICK CLEAN ROTARY VALVES

Our Quick Clean Rotary Valves offer a unique cantilevered design with a removable cover for easy access to the valve interior and removal of the rotor which allows complete access to the valve for cleaning. Ideal for the most sanitary applications, requires no tools for complete disassembly of product contact parts, minimizes process downtime, and saves you money. Custom sizes and configurations available.

STINGER® CONVEYORS

Our patented Stinger Conveyor is the best solution for transferring difficult to handle products. The conveyor works best on products that are cohesive such as pigment, carbon black, talc, clay, stearate, and other similar materials. The conveyor uses TransFlow® technology to precisely control air flow and conditioning which causes the product to move freely. Capable of conveying up to 60,000 lbs./hour.

CONTACT US

+1 (800) 546-3165
sales@younginds.com
16 Painter Street, Muncy, PA 17756
www.younginds.com

SUPPLYING BULK SOLIDS MATERIAL HANDLING AND ENVIRONMENTAL EQUIPMENT AND SYSTEMS
8122 Threadtail St, Conroe, TX 77385

EIRICH

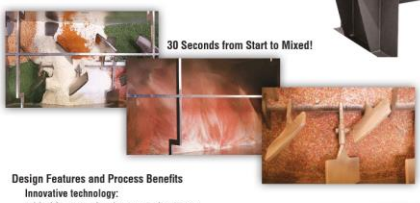
Technology and Innovation…

OptimaBlend® Mixing Technology

OptimaBlend® by American Process Systems® is the newest and most innovative addition to the industry's most comprehensive line of mixing equipment, offering a balance of mixing speed and efficiency with low equipment cost and consumed power.

OptimaBlend® eliminates roll apart segregation caused by gravity when mixing ingredients of greatly varying density, shape and size by fluidizing. Fluidization is achieved by a combination of a defined geometry lifting action with a triple paddle, multi-zoned rotor turning about 80% faster than a traditional ribbon blender.

Incredibly precise low CV blends are achieved in less than 60 seconds for most powdered ingredients.



30 Seconds from Start to Mixed!

Design Features and Process Benefits

Innovative technology:
- Ideal for manual and automated systems

High efficiency design:
- Fluidization assures homogeneous mixes independent of large range of particle size, shape or density
- 30-60 second mix times typical
- Low CV– Coefficient of Variation values
- Low consumed power and HP/Ton

Increased production capacity:
- Up to 10 times the throughput versus ribbon blenders

Low shear design:
- Extremely gentle with fragile ingredients
- Minimal heat generated due to internal friction

High particle movement:
- Fast, even liquid addition and coating
- Ideal for agglomerating

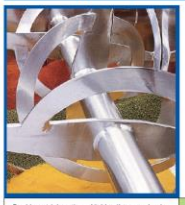
No over mixing

Lab size OptimaBlend® Model FPB1/5 Fluidizing Paddle Blender

Turning Mixing Art into Mixing Science in our Test Lab!

…To Increase Your Profits

Out with the Old – In with the NEW!

Ribbon Blenders over 100 years old	Technology	OptimaBlend® "State of the Art"
		
Double or triple action with blending occuring in the small voided areas immediately behind the blending ribbons.	Methodology	Inner & outer paddles on the triple action, multi-zone rotor.
Low tip speed.	RPM	Higher tip speed – more than twice that of comparably sized Ribbon Blenders – creating the optimum fluidized bed mixing evironment.
Approximately 5-6 minutes for dry applications.	Mix Time	30-60 seconds for dry applications.
Extended mixing times are required to blend powders with various particle size and density. Potential segregation may occur in the mixer.	Product CharacteristicsParticle SizeDensity	The OptimaBlend® mixing technology provides the ideal environment for effectively mixing a wide distribution of particle size and bulk densities without segregation.
5% standard deviation with 10% coefficient of variation is common with 0.5 lb sample.	Mix Quality	≤ 0.5% standard deviation and ≤ 5% coefficient of variation with 0.25 lb sample.
Could be substantial dependent upon materials.	Product Degradation	None
1 HP for every 100 - 150 lbs - product dependent.	HP / Energy Consumption	By virtue of the OptimaBlend® Mixer's ability to mix in approximately 30-60 seconds, the consumed energy is potentially 80% less for any given batch.
Slight - Moderate.	Shear / Heat	None
Recommended as close to center as possible.	Filling / Loading	Random location.
Suitable for jacketing / pressure / vacuum and with countless options "tailoring" the unit to engineered solution based on individual process requirements.	Flexibility	Suitable for jacketing / pressure / vacuum and with countless options "tailoring" the unit to engineered solution based on individual process requirements.
Industry accepted.	Price Competitiveness	Comparable to ribbon or paddle blenders – product and feature dependent.

The advantages of an innovative system

EIRICH intensive mixers were developed for the most diverse jobs in the processing of raw materials, mechanical mixtures and compounds. Variable setting of machine components and the energy range ensures a high degree of efficiency.

Three components determine the characteristics of these mixers:

1. **A rotating mixing pan**
2. **A rotating mixing tool**
3. **An adjustable multi-purpose wall-bottom scraper**

The advantages resulting for the user are considerable:

- **Optimum homogenization of the process material**
- **Shortest mixing times**
- **Excellent, constant quality of process material**
- **Little wear**
- **Low-maintenance design**
- **Continuous or batchwise mode of operation**

The spectrum of applications covered by EIRICH intensive mixers is as varied as the range of industrial processing operations in the fields of production and environmental protection.

Conventional EIRICH mixers are used for mixing under atmospheric pressure whereas EVACTHERM® mixers are used for mixing under vacuum and/ or for combining complex preparation processes. Processing steps can be performed either singly or in combinations in one machine.

They include:
mixing, reacting, dispersing, dissolving, slurrying, plasticizing, deaerating, fiberizing, solubilizing, agglomerating, disagglomerating, pelletizing, granulating, kneading, moistening, drying, heating, cooling, stripping, impregnating, coating, waterproofing.

RHEWUM®
Enjoy the Difference

Vibration Screens with Direct Excitation of the Screen

Our vibration screens are characterized by high-frequency vibration, which is directly transmitted to the screen cloth. The screen housing remains static and does not move with the screen. This is not only **energy-efficient** and **extremely precise**, but also **protects the building** or steel structure from dynamic loads during screening, since no vibrations are transmitted, unlike conventional screeners.

This special vibration transmission also enables automatically adjustable cleaning impulses to free the screen mesh from stuck material at regular intervals, thereby reducing clogging and **preventing costly production downtimes**.

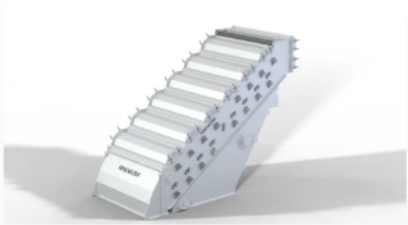
Furthermore, RHEWUM vibration screens with direct excitation allow fixed connections which completely **avoid dust emissions** and therefore comply with ATEX regulations.

RHEsono®

- High-frequency vibration through powerful magnetic vibrating heads
- Finest to medium sized separations (approx. 100 µm - 2 mm)
- Up to 5 screen decks per screening machines
- For feed rates higher than 5 t/h

RHEmoto®

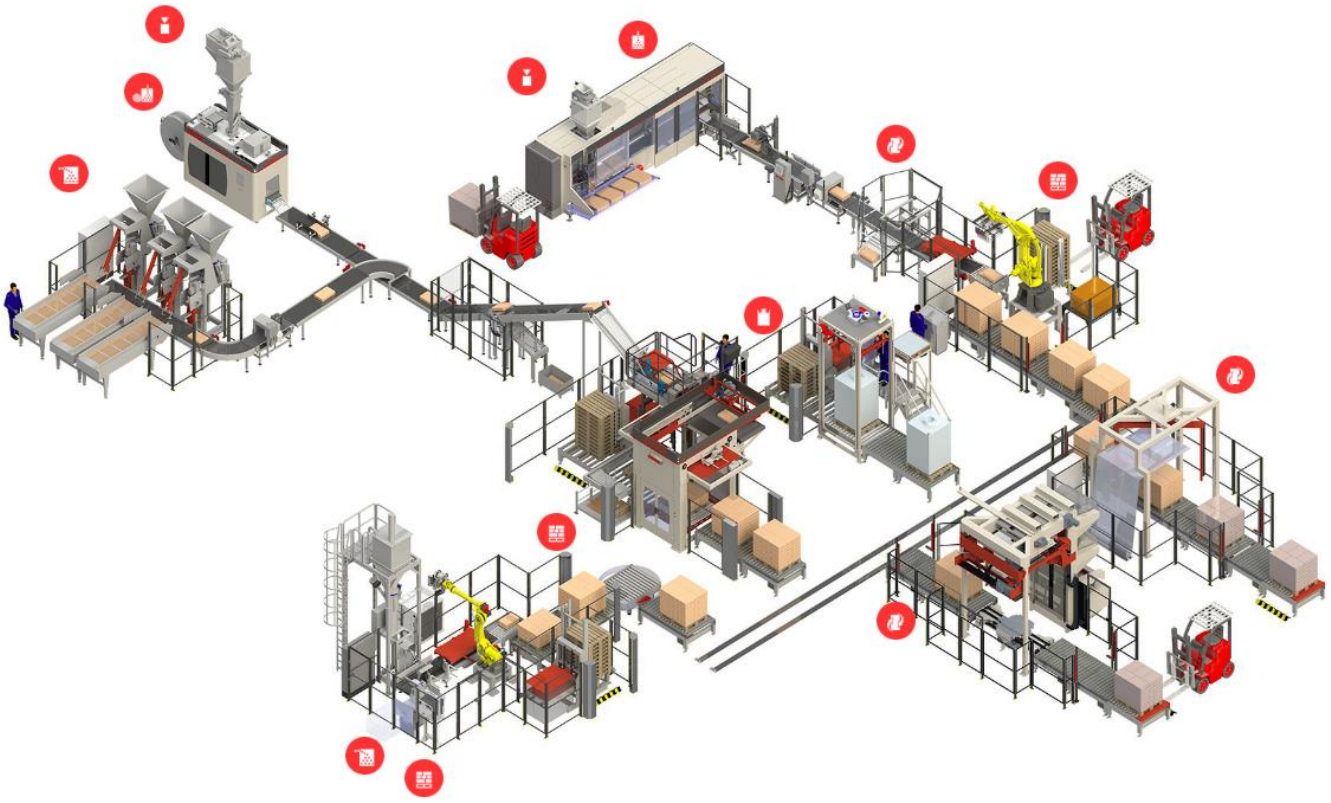
- Direct vibration transmission by unbalance motors
- Fine to medium sized separations (approx. 1 mm - 10 mm)
- Up to 5 screen decks per screening machines
- For feed rates higher than 5 t/h



RHEfino®

- No clogged screen mesh due to automatic and adjustable cleaning pulses.
- Highly efficient vibration transmission and thus low energy consumption
- Continuous production even in the event of a drive failure
- Static housing with fixed flanges and very low dynamic loads

PAYPER
BAGGING & PALLETIZING SOLUTIONS



MAIN **SECTORS**

- Mining
- Building Industry
- Petrochemical Industry
- Chemical Industry
- Fertilizer Industry
- Animal feed
- Food Products for Human Consumption
- Non-Food Crops

MACHINE TYPE

- Dosing and weighing
- Bagging
  - Tubular FFS
  - Valve bags
  - Open mouth bags
  - Big Bags - FIBC
- Palletizing
- End of line and complementary equipment

MIKROPUL Nederman

Baghouse Dust Collectors

Flat Bag Filter Dust Collector

For industrial plant operators such as foundries, smelters, asphalt production and many others, the FS flat dust collector with horizontally installed flat bags provides pollution control in a compact and easy-to-install package.

Pulse Jet Collectors

Pulse jet baghouse dust collectors are used when it is impractical to shut down your dust collector to clean the bags. A pulse of compressed air is blasted through the bags to blow loose the built up particles on the bags to maintain optimum filtration efficiency.

Reverse Air Baghouse Dust Collectors

Reverse air baghouse dust collectors are categorized by their unique reverse air flow methodology to remove dust cake build up.

Cyclone Separators

Cyclone Dust Collectors

Nederman MikroPul High Efficiency Cyclones are the most cost-effective solution for separating dry particulate (5 microns or larger) from gas streams.

Skimmer

Skimmers are modified cyclones for high air volumes that can take the place of two standard cyclones

Spin Pre Separator

A lower cost pre-separator for long ducting runs

Wet Scrubbers

Venturi Wet Scrubber

Venturi Scrubbers are used where high inlet gas temperatures, high particle loading and high percentage of solids in liquid recirculation are needed, for example in mining, food, and metallurgy. 99%+ efficiency for sub-micron particles, with minimal maintenance and long operating life.

READ MORE

Dynamic Wet Scrubber

This wet scrubber with integral wetted fan can be used in all industrial applications where dust, aerosol, and gas are present, especially in the metals and chemical industries. It can also be used for dust control in spray drying and incineration plants and odor control.

READ MORE

Mikro-Vane Wet Scrubber

This basic wet scrubber has the capability of tolerating high inlet dust loadings without sacrificing its collection efficiency, which is 99+% at around the 5 micron size range.

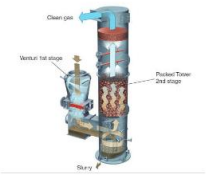
READ MORE

Rotary Scrubber

Rotary Scrubbers can remove fine dust particles and harmful gases as well as odors that might cause concern for communities around an industrial plant. They can be supplied in one or two stage configurations that consume low quantities of fresh water and occupy a small footprint in either vertical or horizontal installations.

Packed Bed Scrubber

Designed to neutralize many gaseous pollutants, packed bed scrubbers offer a compact design and low capital cost. Nederman MikroPul Packed Tower systems can be applied as gas absorbers, coolers, air humidifiers, or condensers. They are widely applied in the field of purification of industrial gases.



Two Stage Wet Scrubber

Completely engineered systems utilizing multiple Nederman MikroPul wet scrubber technologies for achieving higher efficiencies at lower pressure drops or increasing performance of existing scrubbers.

JVI VIBRATORY EQUIPMENT

Application Specific & Engineered to Order

JVI Vibratory Equipment is an innovative designer and manufacturer of vibrating equipment used in the processing of bulk materials. Our in-house engineering team incorporates years of proven design experience, stringent manufacturing procedures, and extensive process knowledge to design specialized vibratory equipment to meet your specific application requirements.

JVI custom engineers vibratory equipment such as:

- Feeders
- Screens
- Grizzlies
- Dosing Feeders
- Spiral Elevators
- TITAN Discharge System

JVI equipment is masterfully designed, easily installed, and provides low maintenance operation with precise, adjustable feed rates.

Whether you need equipment to feed, screen, separate, reclaim, sift, spread, recycle, batch or elevate JVI Vibratory Equipment can design and manufacture an innovative custom vibratory solution for you!

Vibrating Feeders

JVI Vibrating Feeders offer efficient and economical operation for a variety of applications, including:

- Discharging storage bins
- Feeding crushers, mixers, shredders, scales, or fluid bed dryers
- Feeding conveyors, bucket elevators or screens
- Spreading material
- Charging furnaces
- Thermal treatment (heating/cooling) while conveying

Electromechanical Feeder with Integrated Chutework

Electromechanical Cone Crusher Feeder

JVI Vibrating Feeders are available with a variety of options. Offered options include:

- Mild steel, stainless steel, or food grade construction
- Abrasion resistant liners
- Dust-tight covers
- Suspension hardware or support structures
- Customized control packages
- Explosion-proof designs
- Pan or tube configurations

www.jvivibratoryequipment.com

Electromechanical Feeders

JVI Electromechanical Feeders utilize dual electromechanical unbalanced motors and are optimal performers in heavy-duty, rigorous applications.

Electromechanical Feeder Features

- ✓ Low maintenance, single mass design
- ✓ Rated for continuous duty
- ✓ Feed rate adjustability
- ✓ Designs for capacities up to 3500 TPH
- ✓ Feeder/grizzly designs for simultaneous conveying and coarse separation
- ✓ Explosion-proof designs available

UPF Electromechanical Pan Feeder

MPF Electromagnetic Feeder with integrated chutework

UCD Plastic Pellet Screen

Electromechanical Pan Feeder

Installed Electromechanical Tube Feeder

MTF Electromagnetic Tube Feeder

MPF Electromagnetic Feeder with trough cover

Electromagnetic Feeders

JVI Electromagnetic Feeders are driven by industrial electromagnetic drives and provide precision feeding in a variety of applications from light to heavy duty.

Electromagnetic Feeder Features

- ✓ Low maintenance
- ✓ Accurate and precise feeding — 0-100% feed rate adjustability, instant on/off, and PLC interface
- ✓ Explosion-proof designs

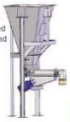
Installed Electromagnetic Pan Feeder with Integrated Chutework

MPF Electromagnetic Feeder with overhead drive and integrated hopper

UGS Grizzly Feeder for coarse separation

Electromagnetic Tube Feeder Package on Load Cells

MTF Tube Feeder with integrated hopper and stand



Dual UPF Feeder System for covering greater distances

WILLIAMS PATENT CRUSHER and PULVERIZER CO., INC.

PARTICLE SIZE REDUCTION EQUIPMENT

Williams Patent Crusher proudly manufactures particle size reduction equipment to meet the unique needs of a variety of specialized industries. Our line of size reduction products includes customized systems for high-volume reduction. Browse our complete line of heavy-duty size reduction products, including shredders, crushers, grinders, pulverizers and more below to discover how Williams Crusher can bring efficiency and quality to your industry.

Contact us today to speak to our experienced sales engineers and find the right size reduction equipment for your job.

Why Choose Williams Crusher for Size Reduction Equipment?

Williams Patent Crusher has been a leader in the size reduction industry since 1871, with over 500 patents and trademarks to its credit. We set ourselves apart from other size reduction equipment companies with the diverse line of equipment and customization options for each machine. At Williams, we strive to provide the best equipment and solution for you and your application.

Power Industry Equipment

Williams is a leader in particle size reduction equipment within the Power Industry, offering unique products such as coal pulverizers for solid fuel combustion and limestone prep systems for fluid bed combustors. Learn more about these specific applications and other custom equipment Williams offers to customers in the Power Industry.

Pulverizers

Pulverizers reduce the size of coarser materials like coal, limestone, phosphate rock, pigments, tobacco, clay, and barite. With our customization options, a Williams pulverizer can be the all-in-one size reduction equipment you need for your application. Read more about the specifics of our pulverizers, such as our roller mill pulverizer machine.

Impact Dryer Mills

Our Impact Dryer Mills utilize proven technology integrated into a complete system that simultaneously grinds and dries, accurately classifies, and conveys materials in one continuous, automated operation. This automation provides the perfect solution to get what you need out of your particle size reduction equipment. Learn more about the mechanics and applications of our impact dryer mills.

Hammer Mills

Williams manufactures a large variety of Hammer Mills as part of our size reduction equipment line. Williams Hammer Mills are designed to handle virtually any size reduction job, and use continual, high-speed hammers to shatter materials. Visit our Hammer Mills page for a complete list of industry applications, material applications and our standard machine offerings.

Industrial Shredders

When evaluating size reduction equipment offering efficient recycling and fuel preparation of municipal and industrial wastes including paper, refuse, wood, pallets, metal and aluminum scrap, you'll find that Williams shredders are the perfect machine.
Learn more about our industrial shredders and how to determine which model will achieve your desired particle size reduction.

Impact Crushers

Williams Primary and Secondary Impact Crushers, Impactors, and Nuggetizer® Crusher are designed to efficiently and effectively reduce materials including limestone, sand, gravel, asphalt, cement rock, concrete, and many types of minerals. Read more about our impact crushers, and how to choose the correct equipment for your particle size reduction project.

Roll Crushers

Williams heavy duty Roll Crushers are , long lasting, economical, and versatile, while boasting a simplistic design. Used for particle size reduction in the mining, recycling, and power industries, our equipment is designed for materials such as bauxite, cement clinker, chalk, cinders, coal, gypsum, and much more.
Learn more about our Single and Double Roll Crusher models.

Air Classifiers

Williams Air Classifiers are most effective when used alongside our size reduction machines, such as a pulverizer. Common in the recycling industry, air classifiers can sort metal, paper, and plastics that arrived mixed together. Learn more about our High Efficiency Air Classifiers, Turbine Separators, Mechanical Air Separators and their applications.

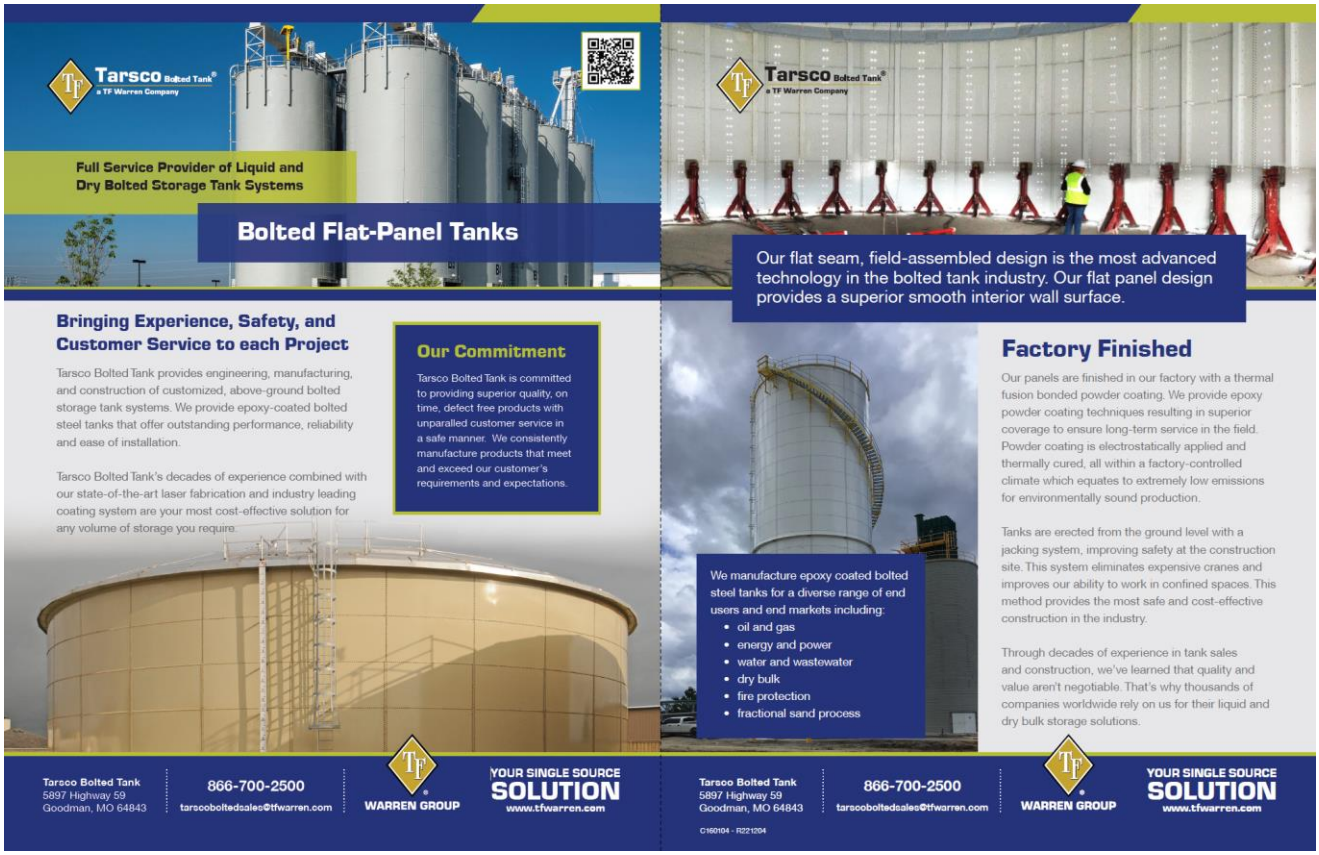
Forest Products

Williams wood shredding machinery is the leading size reduction equipment in the forest products industry. We offer heavy-duty top feed and horizontal front feed hogs, featuring rugged construction, built for your biggest forestry jobs. Visit our Forest Products page to learn more about specific machines, such as our No-Nife Wood Hog and Chip Hogs®.

Apron Feeders

Williams offers a variety of Steel Conveyors and Apron Feeders that can be paired with our particle size reduction equipment to be used for almost any application you need. Learn how our conveyors and feeders can work together to create a heavy-duty solution capable of crushing and grinding even more material.

Tarsco Bolted Tank®
a TF Warren Company



Point Level Measurement

Level detectors detect media at a predefined position depending on the installation position.

Level detectors are mainly installed as full or empty detectors in the upper or lower part of a silo or container. This prevents the silo from overfilling or running empty. In combination with a level sensor, this results in a redundant system which additionally increases plant safety. If a certain fill level is of particular interest, the sensors can also be used as demand detectors.

There are different technologies for level detection, which have their advantages and disadvantages depending on the application. For the selection, numerous process conditions have to be considered, which the sensor technology has to cope with. In addition, the requirements for bulk solids sensors differ from those for liquid sensors. For this reason, UWT offers a broad portfolio of different technologies such as rotary paddle switches, vibration level switches and capacitive sensors. This allows us to individually address their requirements in order to always provide them with the best possible solution.

Typical challenges:

- Media type (e.g. bulk, powder, liquid, paste, etc.)
- Media properties (e.g. bulk density, conductivity, viscosity, etc.)
- Input conditions (e.g. tank material, tank geometry, installation position, installations within the tank, etc.)
- Process conditions (e.g. pressure, temperature, ambient conditions, explosion protection, hygiene requirements, etc.)

In addition to our point level detection sensors our product portfolio also includes a variety of continuous level measurement sensors which unlike limit level sensors can detect the exact level of a medium in real time.

NivoRadar® High Frequency Radar

SOLVING CHALLENGING LEVEL MEASUREMENT APPLICATIONS

We are a worldwide leading manufacturer of level measurement sensors offering tried & tested solutions for most industries. Our point level sensors and continuous transmitters can accurately detect bulk goods, powders as well as liquids, pastes and foam.

User-friendly All-rounder

The innovative NivoRadar® 80 GHz level transmitters are the latest in the series of non-contact radar sensors. Configuration is quick and easy using the UWT LevelApp.

They are internationally certified and are also suitable for use in hygiene processes. The devices work with high measurement accuracy and short response times, without blocking distances in the upper range.

A wide range of mounting accessories and flexible temperature solutions enable this compact measurement technology to be installed in a wide range of industrial applications.

Contact Us

901-531-6090
info@uwtlevel.com
www.uwtgroup.com

Clamp Together Duct — "Rolled Lip" Duct

US Duct's Clamp Together Duct system utilizes a rolled lip that is formed at the end of all parts. The lips (think a small version of a 55 gal barrel) of the mating parts are joined together with a gasketed, over-center clamp. The clamp pulls the ends together and envelopes them inside the sealing gasket. ALL parts and special hoods are available with rolled lip. The duct is available in galvanized or SS and in most gauges (depending upon diameter). Using the combination of a separate 11" long adjustable sleeve and/or the integral adjustable collar on each fitting, the US Duct Clamp Together system is infinitely adjustable. This feature along with the clamp enables the novice or professional to reduce installation time by 70%.

More on Clamp Together Duct →

US Tubing — Airtight and Leak-Free

Providing the tight seal of flange connections and the convenience of Clamp Together Duct, US Tubing duct offers fully welded construction and Vanstone-gasket and clamp connecting system that creates a totally leak-free duct system for those applications that cannot have leakage: Oil Mist, positive pressure systems, food processing and many more.

More on US Tubing →

Flanged Ductwork — Angle Rings or Mating Flanges

Flanged duct refers more to the joining method than the actual duct. Flanges (a.k.a. angle rings or mating flanges) are rolled angle iron with specifically punched holes. Bolts are used to "pull" the flanges together. Flanges and the duct are available in all sizes — 3" and up, in black iron, galvanized or SS. The duct fabrication and welding are based upon the customer's need and request. There are several options for affixing the flange to the duct.

More on Flanged Duct →

Spiral Ductwork — Longer Runs and Fewer Connections

Spiral ducting is inexpensive and a great consideration for long runs of ducting. It is a definite consideration for duct sizes between 16" and 36" where there are long runs with few fittings.

More on Spiral Ductwork →

A Word About Stainless Steel Ducting

All ducting steels have the same basic iron and carbon composition, but stainless steel ductwork also contains a healthy dose of chromium — the alloy that gives stainless steel its famous corrosion resistance.

There are multiple grades under the stainless steel umbrella, each with slightly different alloy composition, and therefore slightly different physical characteristics. Stainless steel must contain at least 10.5 percent chromium. Depending on the grade, it may contain much higher chromium levels, and additional alloying ingredients like molybdenum, nickel, titanium, aluminum, copper, nitrogen, phosphorus and selenium.

The two most common stainless steel grades for ducting are 304 and 316. The key difference is the addition of molybdenum, an alloy which drastically enhances corrosion resistance, especially for more saline or chloride-exposed environments. 316 stainless steel contains molybdenum, but 304 doesn't.

For outdoor and some corrosive ductwork applications, stainless steel is an ideal corrosion-resistant material, but it will only withstand long-term exposure if the grade is appropriate for its environment. 304 is an economical and practical choice for most environments, but it doesn't have the chloride resistance of 316. The slightly higher price point of 316 ducting and components may be well worth it in areas or applications with high chloride exposure. Each application for stainless steel ductwork has its own unique demands and needs a stainless steel that's up to the task.

With the launch of our new DuctQuote.com program, we hope to enable Industrial Ducting professionals to dramatically reduce system design and installation time.

- Draws 3D systems
- Calculates air flow
- Generates custom quotes using your logo and contact info
- Creates parts list and install order documents

Users can access DuctQuote to design dust/mist/fume collection systems at a rate of 20 machine connections per hour. Because the program is web based, users can login from any browser using their unique user ID and password.