













# Bulk Material Equipment

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## BME Company Overview

Bulk Material Equipment, with corporate offices located in Conroe, Texas, is an industrial Design/Build Contractor, Manufacturers Rep, Distributor and Equipment Manufacturer that specializes in dry bulk solids material handling, processing, batching, storage, packaging, and 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.

## Design Build Capabilities

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

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Syntron Material Handling

Syntron Material Handling

Syntron®  
Link-Belt®

## Company Overview

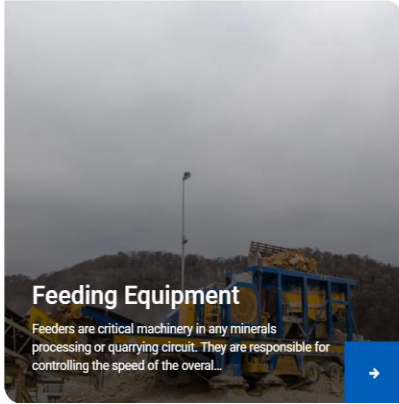


VIBRATORY	HEAVY		HEAVY		HEAVY	VIBRATORY
	LIGHT		LIGHT		BIN	
CONVEYOR EQUIPMENT	ABOVE		CONVEYOR			CONVEYOR EQUIPMENT
	UNDER		CONVEYOR TERMINALS		ELECTRICAL POWER UNITS	
	BUCKET		BUCKET			
	SCREW	SCREWS				

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

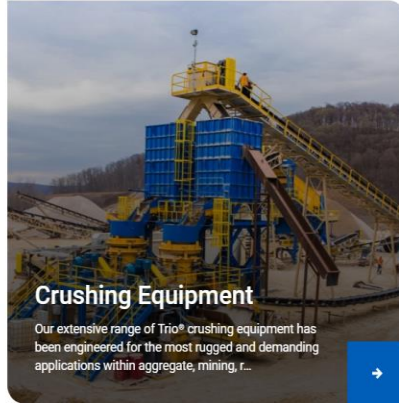
## WEIR

### Minerals



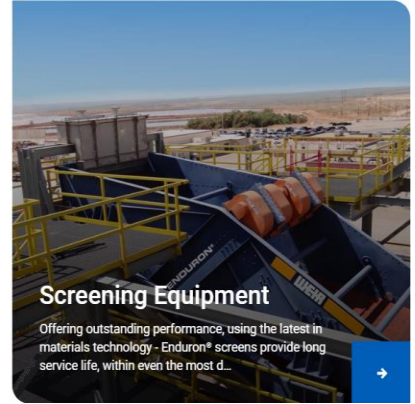
**Feeding Equipment**

Feeders are critical machinery in any minerals processing or quarrying circuit. They are responsible for controlling the speed of the overall...



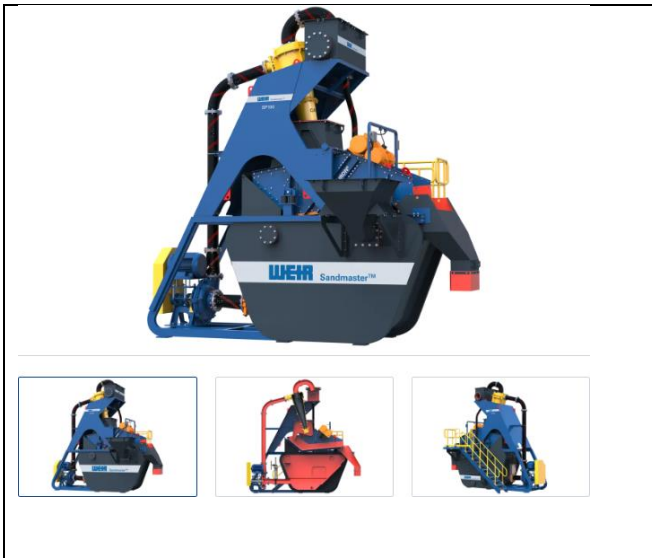
**Crushing Equipment**

Our extensive range of Trio® crushing equipment has been engineered for the most rugged and demanding applications within aggregate, mining, r...

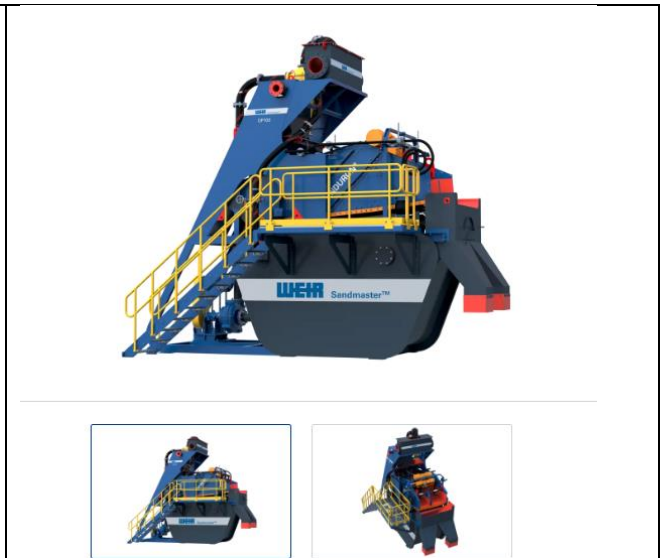


**Screening Equipment**

Offering outstanding performance, using the latest in materials technology - Enduron® screens provide long service life, within even the most d...



**Sandmaster™ SP Series of Sand Wash Plant**



**Sandmaster™ DP Series of Sand Wash Plant**





## 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.



**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](#)



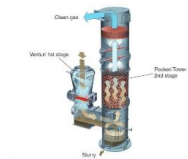
### Rotary Scrubber

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.



## PNUEMATIC 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, slip 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 when 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, aluminum, dry bulk handling, auger 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, 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 so safe 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.



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PROVEN DESIGN**



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## 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 features you want and need. Laboratory sizes are available.

## 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.

## 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.

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## 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 meter material to 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.

## AERO-MECHANICAL CONVEYORS



We have been supplying Aero-Mechanical Conveyors since 1980. 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 rising column of air which fluidizes and suspends your material, all while, turning horizontally, vertically, or any angle in between.

## 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.

## 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 relationship services, regardless of the original manufacturer or model.

## 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.

## 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.

## SILENTFLOW BINS



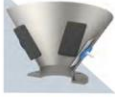
The SilentFlow® Bin Discharger consists of a hopper cone fully lined with TransFlow® fluidization media which distributes and controls low-pressure air or gas. This significantly reduces the coefficient of friction between your bulk material and the cone surface which results in a positive flow of the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

## 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 precludes material flow without obstructing it.

## 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, soda ash, bran, clay, carbon black, sawdust, detergents, and resins.

## 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, ceramics, 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.



BAG COMPACTORS  
SCAN FOR MORE INFO

## 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.

## GRAVITY BLENDERS

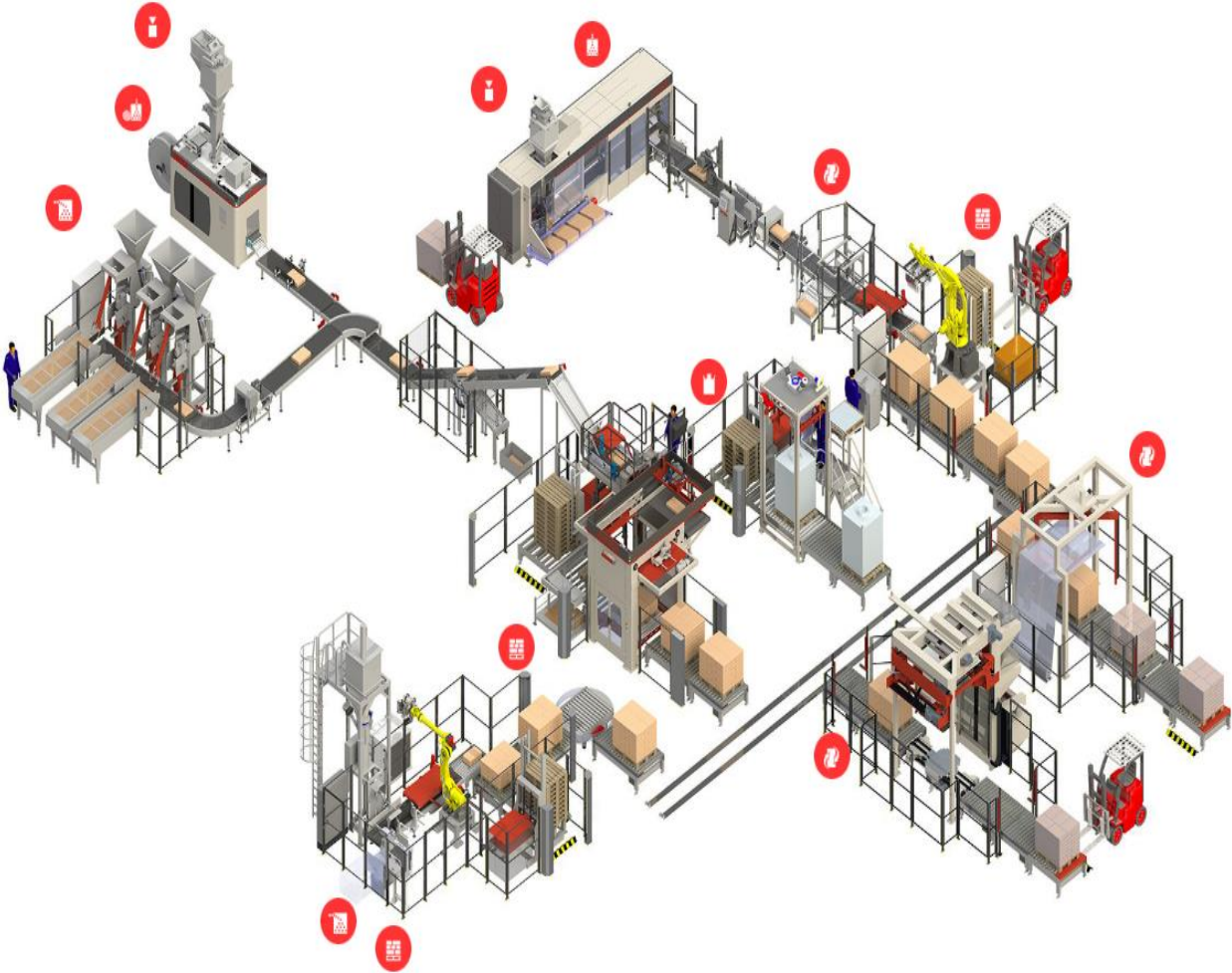
Weight variations in package filling can occur because of product segregation in your material handling system. Through blending reduces weight variations for more accurate volumetric filling, reducing overall and product giveaway by as much as 5%. These units require no energy, need virtually no maintenance, and most have no moving parts. Available in custom sizes and configurations.

## CONTACT US

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# BME Line Card



**SUPPLYING BULK SOLIDS MATERIAL HANDLING AND ENVIRONMENTAL EQUIPMENT AND SYSTEMS**  
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 <p><b>HPS 20</b> Electronic Flow wrapping Machine</p>	 <p><b>HPS 50</b> Electronic Flow wrapping Machine</p>	 <p><b>VPS 25C</b> Vertical Packaging Machine</p>
		
		
<p>The Sacmi HPS20 flow wrapping machine is a fully electronic controlled machine. The machine is highly flexible, user-friendly, providing easy product changeover and easy integration in automatic packaging lines. Designed and assembled with high quality standard and components; the machine reduces operation cost while minimizing maintenance. Wrapping material max. linear speed: 20m/min</p>	<p>The Sacmi HPS50 flow wrapping machine is a fully electronic controlled machine. The machine is highly flexible, user-friendly, providing easy product changeover and easy integration in automatic packaging lines. Designed and assembled with high quality standard and components; the machine reduces operation cost while minimizing maintenance. Wrapping material max. linear speed: 50m/min</p>	<p>The VPS 25C continuous vertical form fill and seal machine is designed to provide a high speed packaging solution, for the food and non-food industry. It is an electronically driven, compact, clean stainless steel machine, with quick and simple change-over and maintenance. This is a solid machine equipped with latest electronics, meeting the needs of continuous cycle production lines, ensuring consistent quality and repeatability of the finished package.</p>

 <p><b>VPS 40</b> Vertical Packaging Machine</p>	 <p><b>VPS 40C</b> Vertical Packaging Machine</p>
	
	
<p>The VPS 40 intermittent vertical form fill and seal machine is designed to provide a high speed packaging solution, for the food and non-food industry. It is an electronically driven, compact, clean stainless steel machine, with quick and simple change-over and maintenance. In the inclined version VPS 40 is particularly suitable for delicate and crumbly products.</p>	<p>The VPS 40C continuous vertical form fill and seal machine is designed to provide a high speed packaging solution, for the food and non-food industry. It is an electronically driven, compact, clean stainless steel machine, with quick and simple change-over and maintenance. This is a solid open frame machine designed to cover wider bag dimension, meeting the needs of continuous cycle production lines, ensuring consistent quality and repeatability of the finished package.</p>







**Tarsco Bolted Tank**  
a TF Warren Company

Full Service Provider of Liquid and Dry Bolted Storage Tank Systems

**Bolted Flat-Panel Tanks**



**Tarsco Bolted Tank**  
a TF Warren Company

Our flat seam, field-assembled design is the most advanced technology in the bolted tank industry. Our flat panel design provides a superior smooth interior wall surface.

**Bringing Experience, Safety, and Customer Service to each Project**

Tarsco Bolted Tank provides engineering, manufacturing, and construction of customized, above-ground bolted storage tank systems. We provide epoxy-coated bolted steel tanks that offer outstanding performance, reliability and ease of installation.

Tarsco Bolted Tank's decades of experience combined with our state-of-the-art laser fabrication and industry leading coating system are your most cost-effective solution for any volume of storage you require.

**Our Commitment**

Tarsco Bolted Tank is committed to providing superior quality, on time, defect free products with unparalleled customer service in a safe manner. We consistently manufacture products that meet and exceed our customer's requirements and expectations.



**Factory Finished**

Our panels are finished in our factory with a thermal fusion bonded powder coating. We provide epoxy powder coating techniques resulting in superior coverage to ensure long-term service in the field. Powder coating is electrostatically applied and thermally cured, all within a factory-controlled climate which equates to extremely low emissions for environmentally sound production.

Tanks are erected from the ground level with a jacking system, improving safety at the construction site. This system eliminates expensive cranes and improves our ability to work in confined spaces. This method provides the most safe and cost-effective construction in the industry.

Through decades of experience in tank sales and construction, we've learned that quality and value aren't negotiable. That's why thousands of companies worldwide rely on us for their liquid and dry bulk storage solutions.

We manufacture epoxy coated bolted steel tanks for a diverse range of end users and end markets including:

- oil and gas
- energy and power
- water and wastewater
- dry bulk
- fire protection
- fractional sand process



Tarsco Bolted Tank  
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**YOUR SINGLE SOURCE SOLUTION**  
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## DESIGN

- Centrifugal fan design
- Air flow up to 400,000 cfm
- Static pressure up to 140" W.G.
- Temperature up to 1800 ° F
- Computational Fluid Dynamics design
- Finite Element Analysis used in design
- Lab tested for performance
- CE Certified

## MANUFACTURING

- Full range of construction materials: carbon steel, stainless steel, nickel-based alloys, titanium, Monel, and aluminum
- Abrasion and corrosion resistant
- Explosion proof
- Spark resistant
- Custom metal finishes
- Special coatings and linings: rubber, ceramic tile, Teflon, and custom options



## SERVICE

- Best expedited lead times in the industry
- Replacement fan parts for most brands
- Custom designs
- Fan accessories
- Full scale 2D CAD drawings and 3D models available
- On-site start up assistance
- Field Service for crisis maintenance and unplanned outages




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## NivoRadar® High Frequency Radar

NivoRadar® Series  
Choosing the Right Radar...



Model	Range	Contact	Frequency	Beam Angle	Temperature	Pressure	Features
NivoRadar® 3000	328 ft	Contact Free	78 GHz	4° Beam Angle	392° F	43.5 psi	Optional aiming flange
NivoRadar® 4000	98 ft	Contact Free	80 GHz	4° Beam Angle	175° F	43.5 psi	Bluetooth App
NivoRadar® 7200	48 ft	Contact Free	80 GHz	8° Beam Angle	175° F	43.5 psi	Bluetooth App
NivoRadar® 7100	24 ft	Contact Free	80 GHz	8° Beam Angle	175° F	43.5 psi	Bluetooth App

### 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



## 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.



## Types of Industrial Ductwork

### 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 SS gal barrel) of the mating parts are joined together with a gasketed, over-center clamp. The clamp pulls the ends together and envelops 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.

Intro DuctQuote Makes Duct Easy

Ductwork Made Easy!

[www.DuctQuote.com](http://www.DuctQuote.com)

Watch on YouTube



US DUCT



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.

## Get Started with DuctQuote

DuctQuote works with US Duct's clamp-together ducting system and US Tubing. The program is available for free to qualified US Duct customers. To learn more, contact US Duct at [DuctQuote@US-Duct.com](mailto:DuctQuote@US-Duct.com).

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