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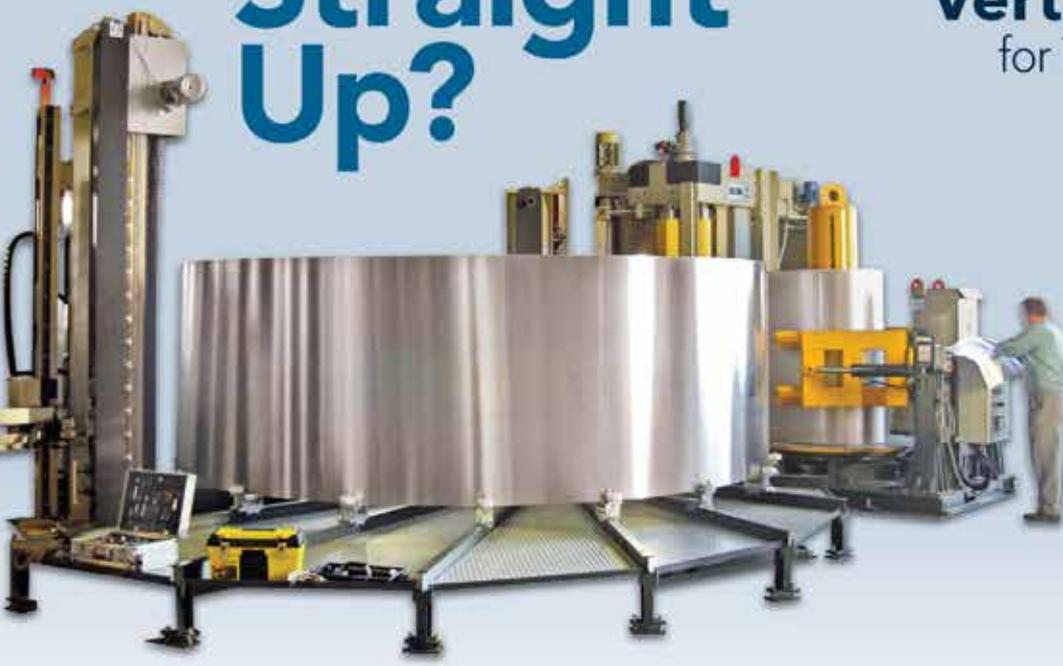
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TIPS CONTENTS

- PG 4 Midland Door Solutions Customizes Bi-Fold Doors
- PG 10 The Effects of Dust
- PG 14 SUS Corporation to Open US Headquarters in Chicago
- PG 18 Eliminate Output Overloads & Maintenance in Advanced Index Table Applications
- PG 24 Ad Index

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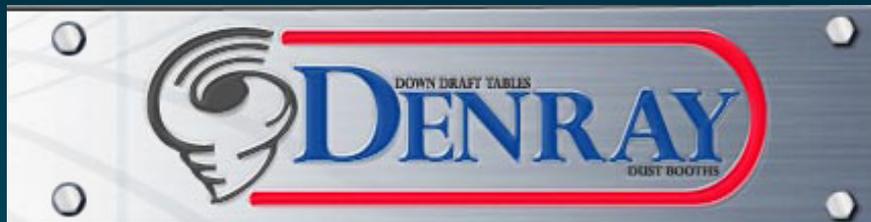
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Midland Door Solutions Customizes Bi-Fold Doors



For Safe, Easy Access to New and Existing Buildings

Midland Door Solutions, West Fargo, North Dakota, manufactures and installs durable, long-lasting bi-fold doors for large agricultural, aviation and commercial buildings. The company custom designs each door to fit any new or existing building for safe and easy access. Beyond installation, Midland crews offer continual service to ensure customer needs are met for the lifetime of the door.

Midland's bi-fold doors contain heavy-gauge steel tubing and a unique truss system that are jig welded for exceptional strength and durability. The doors do not obscure the building's opening,

and equipment can use the full height and width of the doorway when entering or exiting.

A single-latch system with a safety switch comes standard on every door for easy operation. Once closed, users can easily secure the door with one latch in the center rather than one on each end. This saves time, and the safety switch eliminates the risk of damage that can be caused when a user forgets to open both latches. With an optional automatic latch, Midland bi-fold doors can be opened with the push of a button.

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Midland designs all of its bi-fold doors to open quickly and safely. The opening system has a 5-to-1 safety rating – the cables and straps that open the door can withstand stress that is five times greater than the weight of the door. Customers can choose a cable, 1/4-inch or larger, or a 3-inch nylon strap that wraps over itself to lift the door.

Depending on the size of the door, power sources with outputs that range from 1.5 to 4 horsepower open the door. Optional integrated safety switches stop the door if anything interferes while it is opening or closing. Midland secures each door section with cold-formed steel hinges that are welded to the door's frame and linked together with 5/8-inch and 3/4-inch cold-formed hinge pins.

Midland doors also provide exceptional protection from the elements. Three types of insulation are available: 3- or 4-inch white-faced blanket, board insulation with 3 inches inside and a 1/2-inch outside, or a 1/2-inch board coupled with 2-1/2 inches of spray foam. A cloth-inserted rubber weather strip provides a 3-inch weather-tight dual-seal on each side of the bottom of every insulated door.

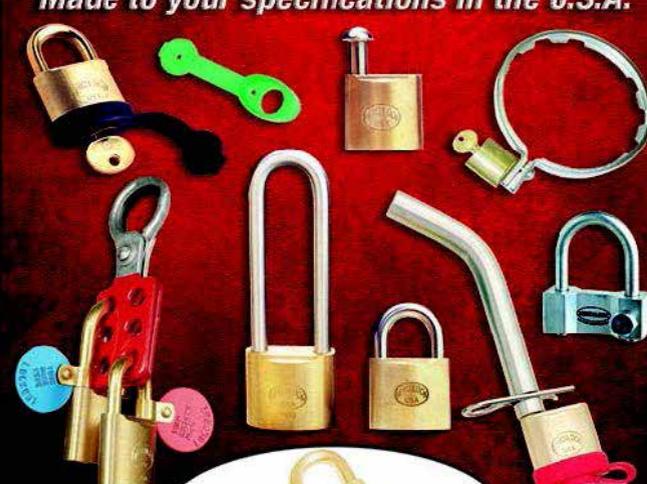
Door colors can be customized to match any building. Door sheeting and trim is available in 26- or 29-gauge ribbed steel,

and the interior liner panels also are 29-gauge ribbed steel. Midland paints each doorframe exterior to match the building's trim color.

Midland offers several options for greater convenience and ventilation, as well. For example, a pre-hung walk door offers easy building access without opening the bi-fold door. Walk-doors are available in 24-gauge smooth-panel steel or 28-gauge textured-panel steel. Midland also can install custom-sized and insulated fixed or sliding windows. In addition, a remote control is available to make opening and closing the door more convenient.

Each bi-fold door is built to individual customer specification at Midland's new 40,000-square-foot facility in West Fargo. Midland delivers the doorframe and other components to the customer's site ahead of time to expedite the installation process. Its experienced and well-equipped installation crew lifts each door into place with a telescoping boom forklift, then welds or bolts the doorframe to the building. The crew then applies insulation and steel paneling to the interior and exterior of the doorframe on site. After the installation, Midland remains available for servicing the door to further ensure longevity and smooth operation. •

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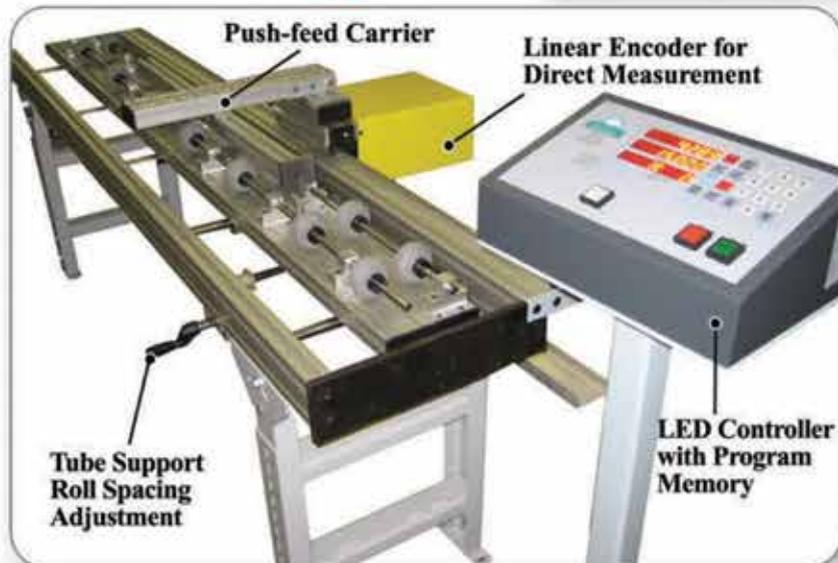


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What does dust REALLY cost your company?

What does dust REALLY cost your company? Denray is a firm believer in educating people and letting them decide. The knowledge of this makes people fully aware of their need for proper dust collection equipment, built by Denray Machine Inc, or to know that you are already equipped adequately.

Denray Machine Inc, located in Mt. Vernon Missouri, has been in business since 1991, and has sold close to 10,000 machines worldwide. Denray proudly builds their machines in the USA with an all metal constructions, offering a wide variety of sizes and models from 1,500 CFM to 4,900 CFM cartridge units. They pride themselves in the quality of Denray products, making them the first choice for the single man shops to the aerospace industry. Denray sells exclusively through dealerships worldwide. They have years of experience and a unique willingness to custom design and build according to your preferences. They offer many models, ranging from a tube filtration system, which has a 99% capture rate at 1 micron, to a 48" x 96" table with a 12" adjustable height with cartridge with a 99.95% capture rate.

Customizing is one of Denray's leading services – provide consumers with a product that will fit their need, without the hassle of changing the way they work. If you think you have an unusual need and need an out of the box company, Denray Machine Inc. is probably the fix you are looking for! Here is how their process works:

- Submit your information and the problem you are experiencing
- Denray will draw up a few basic 3D CAD designs to fit your need
- As the consumer, you review the drawings, making any suggestions or ideas of things you would like to see change
- Price will be given once all changes are made and the final drawing has been approved

Government regulations will vary depending on what type of contaminated air you are trying to capture. A good average to work with is 5 mg per cubic meter. You may be asking yourself "How much is 5 mg per cubic meter?" Close to 99% of people have no idea the answer to this question, and those that have an idea cannot explain it so the average person could understand it. Denray explains this in a simplified manner so that most all people can understand.

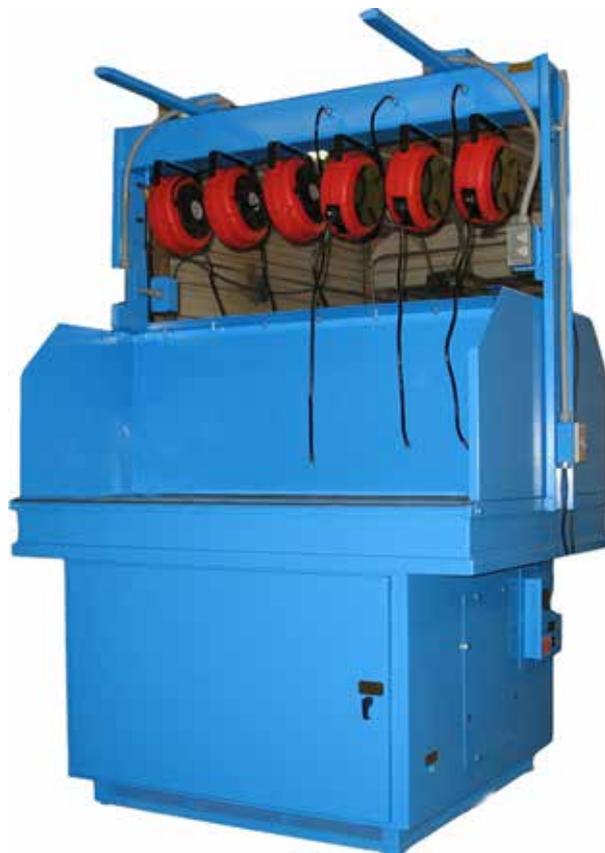
What Is Dust? Dust is a small particle that has been removed from a larger substance, by high-speed cutters, or abrasives. Are all dust particles harmful? NO, depending on their size. Some types of dust may not be harmful to your health, but may be small enough that your body can't rid itself of the inhaled dust.

How big is a micron? One millionth of a meter or 1/25,400 of an inch. Is this hard to relate to? Denray and many others use filtration systems capturing half a micron and smaller. Half a micron is compared to slicing a human hair 200 times. A human hair is approximately 100 microns in diameter. The smallest

dust particle you can see that is floating in a beam of bright light is approximately 50 microns in diameter.

Just how dusty is your shop? Many may believe their shop is not all that bad and some of you may be correct. Some may say "we have a serious problem. Many manufacturers in the woodworking industry know that OSHA has announced that wood dust is a carcinogen. The majority of shop owners/operators have little if any idea how much dust is really the maximum limit. You may ask "How can we know what our exposure level is?" Some work-comp insurance companies will do studies for you and private safety companies can do testing also.

What about dust masks? Are they the answer? Yes, in some cases and NO in most cases. In most cases the dust mask is either uncomfortable or expensive. In some cases they are the only solution, but in most cases they



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are like a ball and chain to the user. Could one breath at a time of contaminated air bring down the mightiest of men? Like the mighty redwood tree, one little chop at a time over a period will eventually bring it down. Testing has shown that while wearing a mask the entire workday, productivity drops 40% in hours six, seven, and eight because every breath of air must be pulled through a filter, resulting in a lower oxygen level and fatigue, and because the person has to work hard for EVERY breath of air they take. Put a pencil to paper and the cost of wearing masks verses using an adequate dust collection system becomes clear. People who understand money will say "Let your money work hard for you so you don't have to work hard for it." I would much rather save a dollar than earn a dollar, because when you save a dollar you save 100 pennies, but to earn a dollar you must earn between 125-140 pennies and pay 25-40 pennies in various taxes.

What is the best dust collection? The answer is easy: The one that the employees will use and the one that works very well. Source capture is the best type of collection as long as it doesn't interfere with the workers ability to perform the job safely. Capturing dust at the source will prevent dust from traveling into the workers breathing zone. OSHA has a rule that states: never pull the dust up past the workers breathing zone. For best results pull the dust down or back away from the operator. The ceiling mounted or ceiling suspended air cleaners are good for getting rid of air contaminates after they have passed the operators breathing zone.

Denray Dust Booths are the most efficient and user friendly choices in most fabricating applications like solid surface,

granite, and marble industry. OSHA requires the dust to be either pulled down or back away from the operator. The booth is pulling the dust away from the operators, because the dust is falling as it is going toward s the power units. Until compressed air is used to blow off the product and stir up dust into the breathing zone, workers are free to work anywhere in the booth in most cases. In large booths, complete kitchens can be fabricated and done in a mostly dust free environment. Because the booths have sides and an enclosed top the dust stays inside to be sucked into the power units. Denray's 85120 model comes equipped with a 7.5 HP motor, developing a CFM of 10,000, to a maximum width of 14' (widths over 14' require multiple power units). Dust Booths work great for a larger application, conveyor systems, or any item too large for a downdraft table. Denray offers a very unique filter cleaning system in the booths that cleans the filters while the machine is not running, and filters the dust from re-entering the work zone. Denray does not just have booths available for dust applications, but for metal working, welding, and grinding applications as well. Prided on building custom tables, they also build custom booths.

Closing thought: Money spent on dust collection is not counter-productive. It is productive and should be considered preventative maintenance. With the huge increase in the cost of health care, preventing it from happening is cheaper than fixing it. Besides, it may just kill YOU!

If you found this article interesting and would like more information, go to www.Denray.com, click on the "Dust Facts" tab and further educate yourself and your company.

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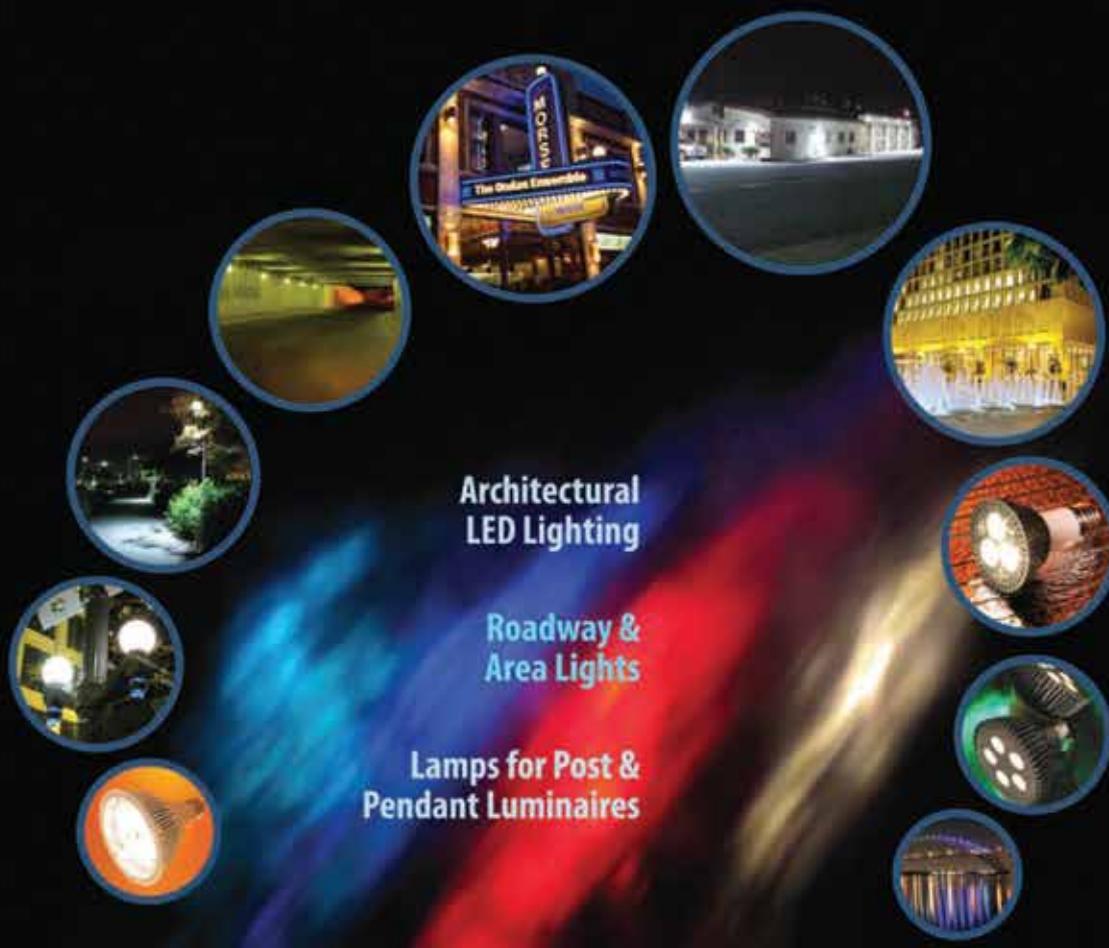
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SUS Corporation to Open United States Headquarters in Chicago Suburb



Japanese manufacturing equipment producer expanding presence in North America.

Japanese company SUS Corporation establishes its stake in North America this October when it opens its United States headquarters in the Chicago suburb of Elk Grove Village, Ill. The move allows the environmentally friendly manufacturing equipment producer to better serve its customers in the United States, Canada and Mexico.

“Last year we came to the United States to introduce one of our most exciting and popular products, the GreenFrame Series. We received such a promising response that we felt it was time to establish a larger presence in the U.S. to better meet the needs of our growing customer base,” said Yasuo Ishida, President of SUS Corporation. “Our high quality machinery, equipment and components for factory automation have continued to perform well in Asia and we believe we can replicate that success in North America. We estimate our first year in the U.S. will generate more than \$500,000 in revenue.”

SUS Corporation specializes in developing manufacturing equipment composed of aluminum and primarily utilized by

automotive and airline manufacturers. By using aluminum in its products, SUS is able to provide environmentally friendly products that are lightweight and customizable to meet a variety of needs within the factory.

For example, the company’s GreenFrame (GF) Series is a lightweight structural framing system made entirely out of aluminum. GF Series frames take 66 percent less time to assemble than industry-standard plastic resin coated steel pipes while providing greater strength and durability. It is already being used by companies worldwide, the most notable being Toyota Auto Body, which uses GF Series frames to increase production efficiency and ergonomics.

Advantages of GF series compared to resin-coated steel pipes

Plastic resin coated steel pipes are commonly used for lean structures in manufacturing facilities; however, they are often heavy and difficult to assemble. With its lightweight construction and easy-to-assemble design, the GF series offers a more

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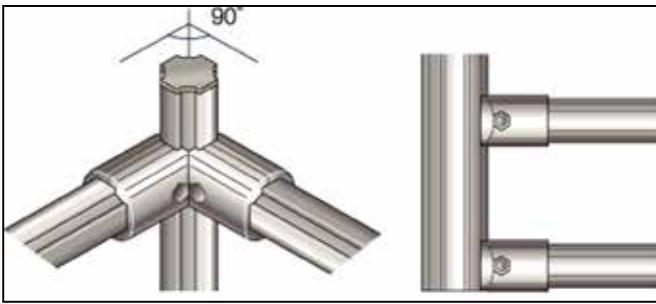
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The aluminum profiles contain mounting features that allow connectors to grip and securely fasten with a single bolt, ensuring a reliable fit every time.

Because they are made entirely out of aluminum, GF series frames are full recyclable and 40 percent lighter than plastic resin coated steel pipes. The frames also provide a maintenance free finish that is resistant to corrosion and scratches.

GreenFrame also enables Karakuri, an energy-saving system that utilizes the flow of gravity to guide the system forward, increasing efficiency and ergonomics.

SUS at the Assembly Show 2014 – Interviews Available

SUS Corporation will be exhibiting at the Assembly Show 2014 to showcase its GF Series products at booth 1438 and promote the opening of its new headquarters. A wide variety of Green-Frame applications, such as workstations, flow racks, and carts, will be on display. For more information about meeting with SUS Corporation and Mr. Ishida at the Assembly Show, contact Jennie Szink at jszink@pcipr.com or 312-558-1770.

SUS Corporation –Innovator of Aluminum–

SUS Corporation is a Japanese company with its head office located in Shizuoka, home of Mt. Fuji. SUS develops, produces and sells machinery, equipment and components for the factory automation, furniture, and architectural industries all over the world. As an environmentally conscious company, SUS primarily uses aluminum as the basis for its products since it is a reusable and 100 percent recyclable material. A company with \$1 million (U.S.) in capital and a network of eight group companies and 10 distributors overseas, SUS can provide a high degree of customer support. Services include engineering design, development, mechanical build, and installation. The company's new U.S. headquarters, located in Elk Grove Village, Ill., has 3,280 square feet / 1,000 square meters total floor space. For further information, please visit the official website of SUS at: <http://global.sus.co.jp/>

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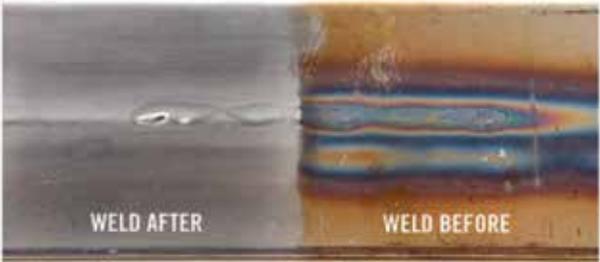
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Eliminate Output Overloads & Maintenance in Advanced Index Table Applications.



Industry leading specialist for rotary tables and automation, WEISS North America, Inc. (Willoughby, OH), has advanced innovative designs for over 45 years. These innovations have helped create new, cutting edge solutions to key performance obstacles in the automation industry.

One key production issue is output overloads, or “overload clutches”, that have been used for decades to protect the internal mechanics of a rotary index table. Most index tables become vulnerable when a manufacturer specifies a motor that is more powerful than the internal cam followers, cam, and bearings can support. A larger horsepower motor usually requires the use of an external gear box or reducer. The utilization of these mechanical boxes introduces increased maintenance and a larger overall footprint of the table.

To overcome this dilemma, WEISS index tables feature a robust mechanical design that eliminates the need for an output overload clutch. Therefore, WEISS is the only index table company that does not offer an overload clutch. Additionally, the tables are designed to withstand an unlimited amount of e-stop and jam occurrences. This is accomplished by not sizing a motor that is more powerful than the table’s extremely robust internal mechanical components. If a jam or e-stop occurs, then the motor will stall before any mechanical components can fail. You simply release the brake on the motor and index to the next position after a jam or e-stop condition.

Notably, the combination of robust construction and innovative drive design provides a truly maintenance free solution. All of WEISS’ index tables and index rings are shipped filled with oil and sealed for life. Each is also specified with a 25 year life expectancy or more at the given application specifications.

Innovative Design Drives Optimal Table Sizing:

Selecting the correct size index table is ensured by calculating an end-users’ total inertia load based on proven, pre-engineered “speed steps”. A speed step is a combination of the AC Brake Motor, two Timing Pulleys, and a Timing Belt. The maximum inertia and index time has already been calculated for each table and the corresponding inertia loads it can accommodate.

Each speed step has been proven for that specific inertia load on each index table. The AC Motors used are a lower horsepower than would be typical with other similar size index tables. The ability to use a lower horsepower motor is the direct result of an internal gear reduction between the input shaft and the barrel cam. This internal gear reduction is a standard on all WEISS index tables—eliminating the need for any external gear reduction. The resulting benefit achieved is both performance and maintenance driven.

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These innovative design advantages provide a cost savings to the equipment builder, as well as a superior warranty to the final user of the machine. As a result, WEISS is the only index table manufacturer to offer a standard four year warranty on all index tables and index rings.

Open Center Technology:

In order to provide maximum use of components like robots and presses, TR / NR series index rings provide a large open center. This also reduces the overall footprint of the machine with improved accuracy and access to parts. As always, the TR / NR series index rings offer a four year warranty and a lifetime of maintenance free operation.

Low Profile Design:

The TC series index tables offer a very compact, low profile design. The motor-and-belt and pulley housing are always a smaller profile than the table's main casting. This key feature allows a designer to avoid costly cut outs in their machine base plate due to oversized motors and gear reducers.

All of the WEISS tables and rings also offer accurate dowel holes on all mounting surfaces including; the main casting for mounting to the machine base, rotating dial plate for easy mounting of the tool plate, and on our standard, center stationary plate on all models. End-users simply transfer WEISS' mounting hole pattern to their tool plate drawing; with no adjustment or reaming of dowel holes required at assembly.

Stock, Service, Customization, and Software:

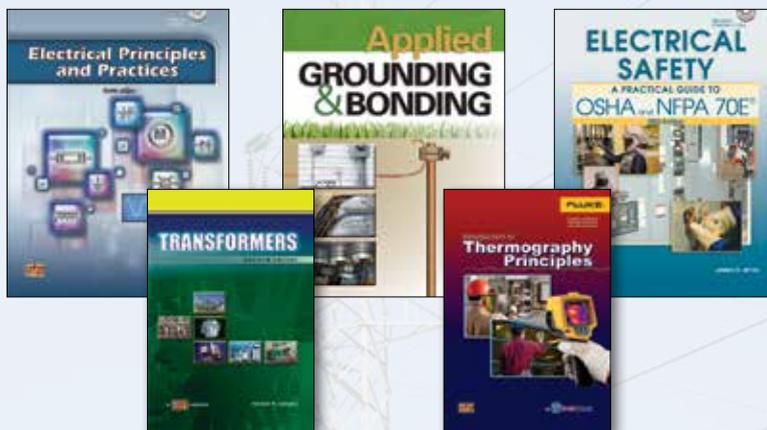
With over 500 index tables in stock, WEISS is positioned to offer some of the best deliveries in the industry. Global manufacturing capacity has also doubled over the last two years to meet industry products demand. Commitments to swift quoting, excellent delivery times, and the best customer service in the industry are the cornerstone of the WEISS philosophy.

Custom tool plate, base design, and manufacturing are also readily available from the Willoughby, OH facility. An aggressive product growth trajectory

is anticipated to coincide with the planned 15,000 square foot manufacturing facility expansion by the end of 2014. The addition of new capital equipment will vastly increase in-house capabilities of tool plate machining and machine frame fabrication. Ultimately, it will drive more efficient production, faster turnaround, better pricing, and delivery.

Finally, end-users can leverage WEISS Application Software (WAS) to enable simple and intuitive commissioning of the linear motor/direct drive components. The graphic user interface series provides faster set-up and smooth operation—saving customers valuable time and cost.

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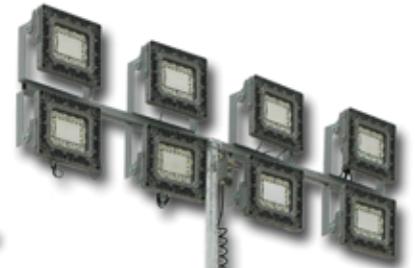
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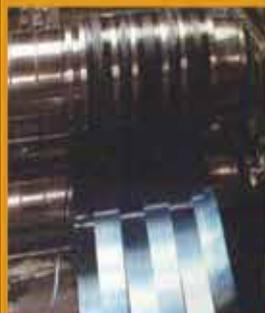
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