

WELDING SMARTER

KEMPER welding fume exhaust equipment and FÖRSTER welding tables are sure to give you an advantage over the competition by reducing production cost and increase quality, employee health, and profit.

Reduce cost and get ahead of the competition delivering consistent quality performance at competitive pricing demands an ultra efficient and streamlined manufacturing process for metal manufacturers.

We at KEMPER and FÖRSTER thrive to provide you with the best in German engineering so you can deliver the best products proudly manufactured in the USA.

KEMPER and FÖRSTER Welding Products -
Your one-stop shop for all your welding needs.



forsteramerica.com

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KEMPER®

WELDING
SMARTER



3-D WELDING TABLES

smart welding
equipment to simplify
operations for
maximum profitability



LEADER IN FUME EXTRACTION SYSTEMS

KEMPER WELDING FUME EXTRACTION SYSTEMS

Kemper America is a leading manufacturer of industrial welding exhaust systems. We have been dedicated to providing clean and safe working environments for welders and cutting operators for over 40 years.

The quality German engineering of all of the products we provide will ensure that all operations of any size can protect their employees with custom solutions made for your outfit. All of our welding fume extractors and filtering systems are OSHA compliant to provide the best protection.

Our welding fume extraction systems have been used by top companies such as Amazon,

General Electric, Snapper, John Deere, Yamaha, IBM and many more. All of our products feature a limited warranty and provide welding smoke and fume removal during jobs such as:

► Welding ► Cutting ► Grinding

You can rely on the Kemper America team of experts to assist you with all your fume extractor requirements.

We can provide solutions for the most demanding challenges. Whether you have large production line operations or a unique manufacturing process, we can develop a welding smoke extraction system to meet your needs.

Dream Team In Air Monitoring And Cleaning



Energy-Saving Indoor Ventilation System ►

KEMPER AirWatch App

CONTROL

Do you move within the legal limits? Do you stick to your self-imposed goals? Easy to read by traffic light display.

SECURITY

Thorough documentation through detailed measurements and storage of data.

INVESTMENT PROTECTION

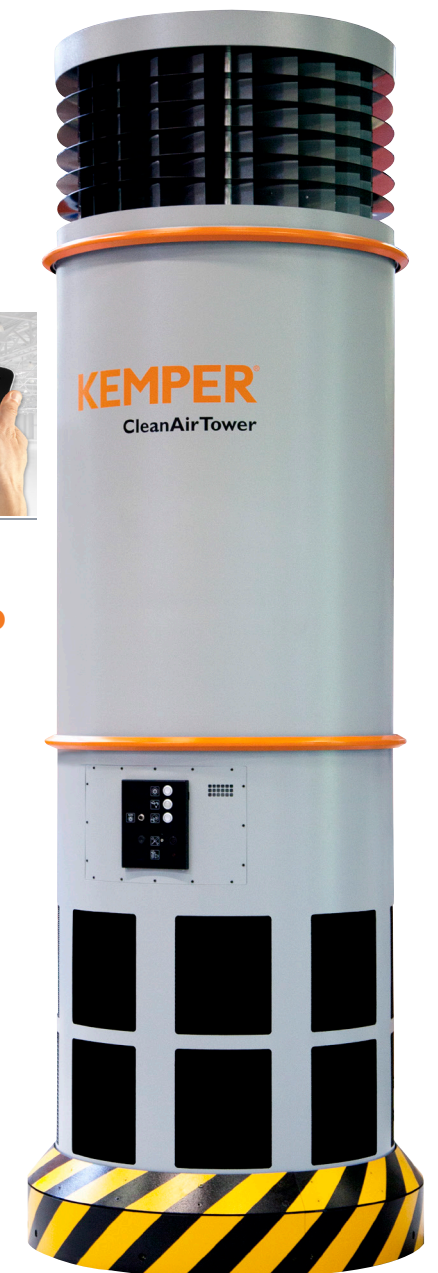
Individual adaptation to changing regulations through adjustable limit values.

STRENGTHEN CONFIDENCE

Presentation of the effectiveness of occupational health and safety measures towards employees by means of traffic light displays as well as on tablets and smartphones.

ENERGY COST SAVINGS

Weld smarter with a connection between AirWatch and KEMPER room ventilation systems.
[Needs-Based Ventilation Control of The Systems]



KEMPER CleanAir Tower

Can be used without ductwork where local exhaust is not possible.

KEMPER AirWatch

AirWatch can continuously monitor and control air quality in production halls and warehouses. The measured values and data can be read at any time in detail via mobile device or computer, all while controlling the CleanAir Tower (or more), ensuring efficient deployment as needed.

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KEMPER CleanAir Towers

When Local Extraction Is A Challenge

Standard Applications

- ▶ Workshops where local exhaust ventilation is not possible
- ▶ As a supplement to local exhaust ventilation
- ▶ Environments with changing sources of smoke and dust
- ▶ Production and logistic areas

The CleanAir Tower can be used wherever local extraction does not work or is insufficient.

It effectively protects employees and machines from fine dust. The purified air is recirculated.

The device hardly creates any air turbulence, ensuring that no dust is distributed into clean areas. The CleanAir Tower functions according to the displacement ventilation principle recommended by health and safety standards.

CleanAir Tower Technical Specifications	
Dimensions	
Diameter	46"
Height	12' or 16'
Weight	1,469 lbs
Extraction Capacity	3,531 cfm
Power Supply	460 V / 3ph / 60 Hz
Noise Level	72 dB(A)
Filter Material	ePTFE Membrane
Filter Method	Self Cleaning
Filter Efficiency	>99.9%



KEMPER WeldFil

Keeping The Air You Breathe Clean

Standard Applications

- ▶ Large welding/grinding shops
- ▶ Robot lines
- ▶ Training shops

The WeldFil Extraction Unit is ideally suited for the extraction at laser systems, cutting beds, or with several exhaust arms. The unit is supplied ready to use including control unit and plug. The system can be offered as a low pressure or high vacuum unit.

FILTRATION

The filter cartridges work on the principle of surface filtration: Our unique teflon-coated KemTex ePTFE-membrane filter medium separates all harmful substances at the surface and the extracted dust cannot penetrate the filter media. Even superfine particles (< 0.4 µm), which are alveoli exchangeable, eventually enter the welder's bloodstream, and stay in the body to cause serious illnesses like cancer or Parkinson's Disease are captured reliably.

Since the extracted dust particles are captured on the surface of the filter cartridge, it's simply cleaned via rotating nozzles using compressed air.

CLEANING AND DISPOSAL

After a contamination limit has been reached, the automatic filter cleaning takes place without interrupting the operation of the unit. After the dust has been cleaned off the cartridges, it will be collected in an integrated dust collector for easy disposal.



WeldFil Central Units

WeldFil Compact Units	
Extraction Capacity Range	735 cfm - 5,085 cfm
WeldFil Central Units	
Extraction Capacity Range	4,414 cfm - 15,677 cfm
Common Technical Specifications	
Voltage	3 x 460 V / 60 Hz
Noise Level	69 dB(A)
Filter Material	ePTFE Membrane
Filter Method	Self Cleaning
Filter Efficiency	>99.9%



KEMPER Compact Units

Kemper Compact Units come in many models to fit your operational needs, including mobile units, portable mini units, and wall mounted units.

Whether it's for sporadic use, continuous use, torch extraction, alternating work spaces, or high efficiency filtering for high-alloyed metals, we've got the right exhaust unit that will extract the welding smoke and particulate matter from the air to ensure clean air is returned to your workspace.



World Class Quality Welding Fume Extraction Control With Flexibility

- ▶ Ensure welders health and safety
- ▶ Reduce sick days
- ▶ Increase quality and productivity
- ▶ Outperform competitors
- ▶ Comply with OSHA's comprehensive regulations

	ProfiMaster
Application	Sporadic use
Width Depth Height	31" w 32" d 38" h
Weight	229 lbs
Extraction Capacity	647 cfm
Power Supply	115 V
Noise Level	72 dB(A)
Filter Material	Filter Cassette
Filter Method	Disposable
Filter Efficiency	>99.5%

FilterMaster	MaxiFil
Various welding workspaces	Large capacity
26" w 26" d 40" h	32" w 35" d 44" h
187 lbs	284 lbs
706 cfm	647 cfm
115 V	115 V
68 dB(A)	70 dB(A)
Filter Cassette	High Capacity Filter Cassette
Disposable	Disposable/Safe Filter Change
>99.5%	>99.5%

FilterMaster XL	VacuFil 500 4 Port
High-alloyed metals	High-vacuum torch extraction
25" w 32" d 57" h	26" w 47" d 54" h
342 lbs	582 lbs
780 cfm	295 cfm
115 V	460 V
69 dB(A)	74 dB(A)
ePTFE Membrane	ePTFE Membrane
Self Cleaning	Self Cleaning
>99.9%	>99.9%

Dusty	MiniFil
Repair work, tight spaces	High-vacuum torch extraction
12" w 14" d 25" h	17" w 15" d 31" h
53 lbs	44 lbs
153 cfm	88 cfm
115 V	115 V
74 dB(A)	74 dB(A)
ePTFE Membrane	Filter Cassette
Manual Cleaning	Disposable/Safe Filter Change
>99.9%	>99%

KEMPER VarioHood Modular Configuration Solution



VarioHood Features

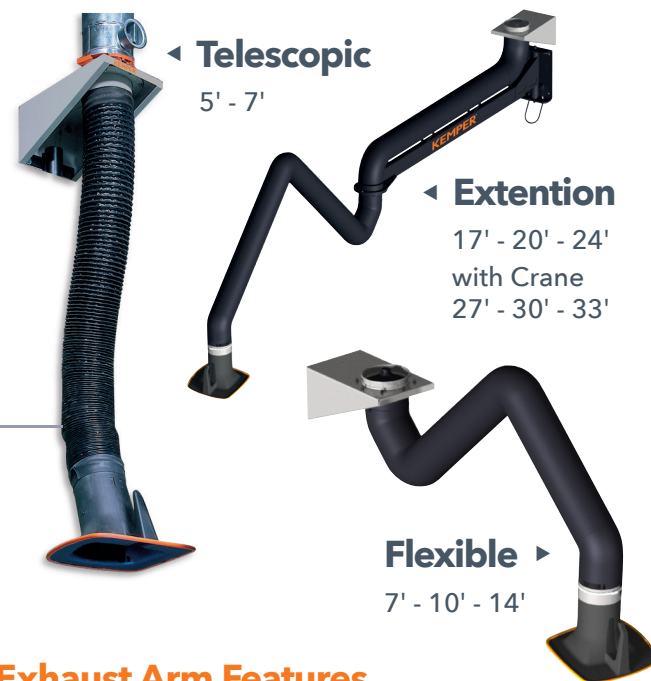
- ▶ Ideal for robotic extraction
- ▶ Low flow rate required due to innovative flow principle
- ▶ Plenty of mounting options
- ▶ Low transport costs
- ▶ Easy to assemble
- ▶ Many different sizes available
- ▶ Protection against harmful rays and welding spatter for staff and equipment thanks to welding strips



Because of its modular design, the KEMPER VarioHood exhaust hood for welding robots can be configured in an almost unlimited number of sizes. Due to the innovative air flow principle, the hood requires only a low flow rate to operate effectively.

Flexible set-up options, for instance mounting on stands in the room, suspended from the ceiling or integrated into a movable robot gantry, offer plenty of scope for plant design.

KEMPER Exhaust Arms



Exhaust Arm Features

- ▶ Fast work due to particularly flexible adjustment
- ▶ 40% less tracking of the extraction arm due to unique rectangular hood design
- ▶ User-friendly thanks to particularly smooth operation of the hood with one hand
- ▶ Holds the set position cantilevered by internal support rods with no sagging
- ▶ Due to the special ease of the suction arm, it can be brought to any position with one hand, which it permanently retains
- ▶ Various connection options of the extraction arms to fans, stationary devices or via ductwork to a central extraction and filter system

These exhaust arms have been developed for extracting hazardous fumes directly at the point of emission. The structure of the exhaust arm consists of an unique interior parallelogram linkage which is spring supported, a fiber-glass hose with a PVC coating, and an internal steel wire spiral.

Due to the parallelogram, the exhaust arm swivels 360° and can be brought in any desired direction without additional support.

KEMPER exhaust arms can be connected to our mobile or wall-mounted exhaust units, wall-mounted fans, as well as to ductwork of any of our Central extraction units.

WELDING SMARTER

"We set a goal to look for the most effective and most cost efficient method for drastically improving the air quality in the welding and fabrication areas of the plant. We spent 8 months evaluating several methodologies to treat our air.

The dust contamination was measured by our insurance company and was determined to far exceed acceptable levels. Most methods evaluated were going to cost the company in excess of a million dollars. This amount was deemed unacceptable by our finance team. An affordable and acceptable solution had to be found.

We installed the AirWatch system one month prior to the installation of our KEMPER CleanAir Towers to establish baseline data. This reading gave us a guideline to measure the improvement level following the installation of the CleanAir Towers.

Kemper was careful to work with our company in locating the ideal areas for each CleanAir Tower. After the first 12 Towers were installed we soon noticed a drastic improvement in the plant.

After a few months we tested the air with the AirWatch sensing devices and were pleased to have a 69% improvement from before the CleanAir Towers were installed. We were then visited by our CEO of operations who immediately noticed the improvement as well. We have since purchased two more additional CleanAir Towers to help in new production areas."

David Bahniuk

Engineering Manager
Rite Hite Products Corporation

KEMPER®



WELDING
SMARTER

3D Welding Tables For Precision Work And Enhanced Productivity

The last welding table you'll ever purchase!

The highest cost factor in the welding industry is not overall production. It's the down time associated with the need to find precise dimensions, angle assignments, measuring, correcting, aligning, and mechanically reworking all of the materials included in your project.

Having a FÖRSTER welding table can prevent a lot of that down time because you are able to create a totally custom solution for your needs.

Our modular welding tables make it possible to complete your welding projects quickly and efficiently. Our table surfaces move, can be adjusted to position any welding job for precision welding, and with just a few components you can create a custom solution for any specific welding project.

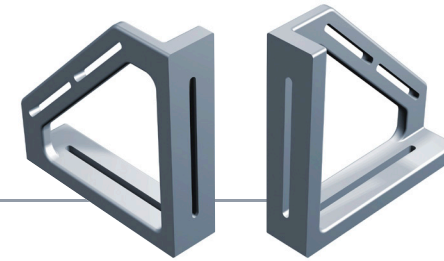
Superior designed grey cast or AlCu tables with a unique T-Slot design are straightforward and easy to work with. They provide a precise work surface that allows welders unrestricted access to the work piece during welding for a true 3D welding experience. They are modular, easy to clean, and adjustable for every production.

Our modular welding tables are designed with a T-Slot table top. This allows for the simple addition of our 3D clamping system because the slats simply slide to accommodate accessories at any point during the welding process. The table tops are equipped with H7 holes coated with our "spatter resistant" coating to ensure longevity.

The 3D welding table allows for access to all sides of a welding project and eliminates the need to move or change positions to get to your metal work. This greatly increases overall productivity and efficiency.



FÖRSTER Tools And Fixtures For State Of The Industry 3D Welding Tables



Universal Angles

- ▶ Can be used as both, left and right angle
- ▶ Can be used lying flat as interior angle
- ▶ Can be used with X-Profile attachment as so called "stiff corner"

Stop Angles

- ▶ Create straight contact surface for linear welding
- ▶ Arrange metal parts linear
- ▶ Available in different sizes from small to large

Stop Brackets

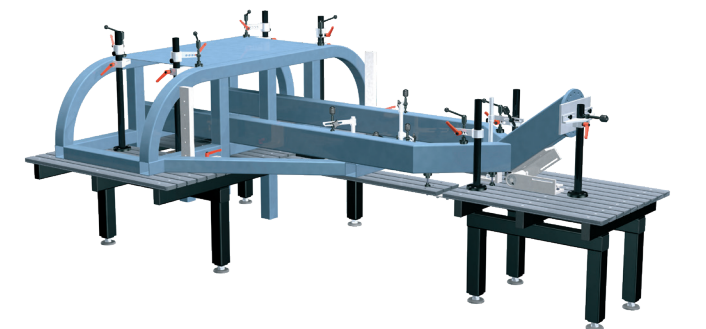
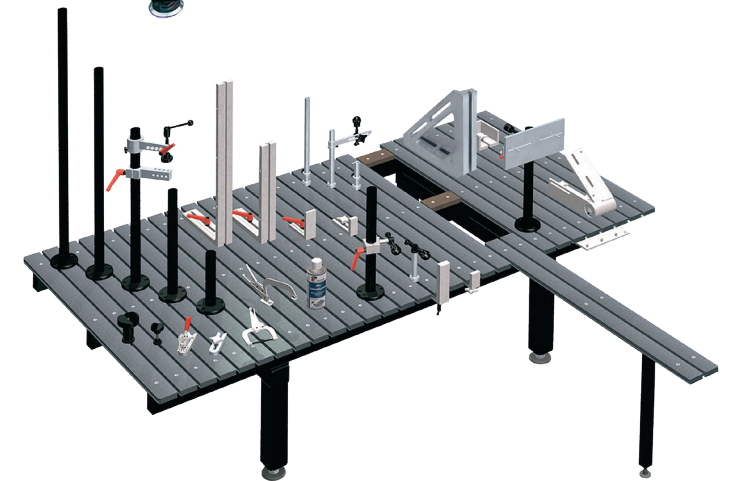
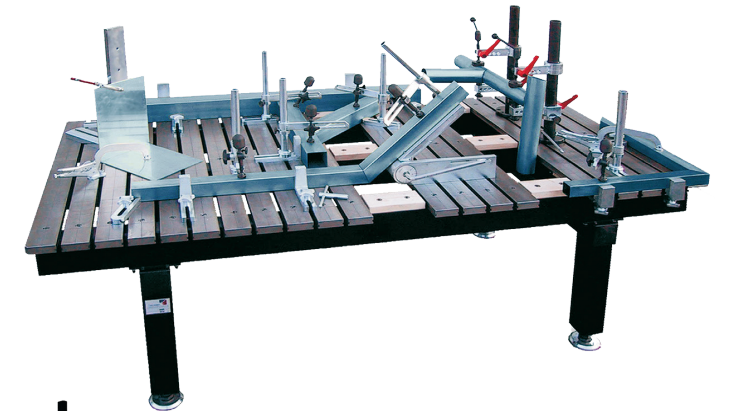
- ▶ Create right angles easily with only a few parts
- ▶ Stop brackets with X-Pro Rail allow true 3D positioning
- ▶ Create tension towers with 4 functional surfaces
- ▶ More features than competitors with same investment

Clamping Elements and Arms

- ▶ Reach all points on the table easily
- ▶ Stepless shifting and precise positioning on x- and y-axis

The FÖRSTER Difference Is Smarter

Conventional stop angles are made of aluminum, FÖRSTER large stop angles (also available with integrated X-Pro rail) are made out of aluminum and Eloxi (anodized aluminum) providing excellent protection against welding spatters and can easily be cleaned of dirt to ensure a quick operational readiness with consistent accuracy for further projects. Opting for this productive technology during high volume welding that creates splatter build up affecting the surface of the used tools can help eliminate handling issues over time.



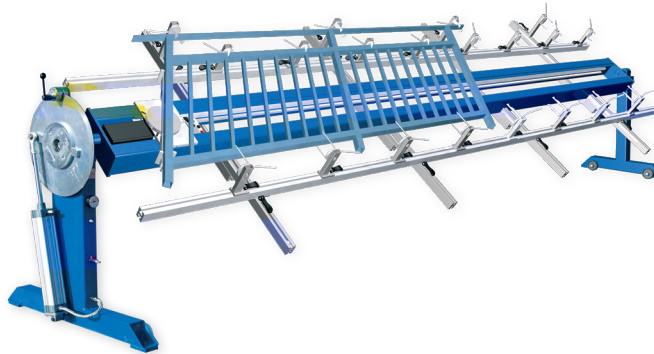
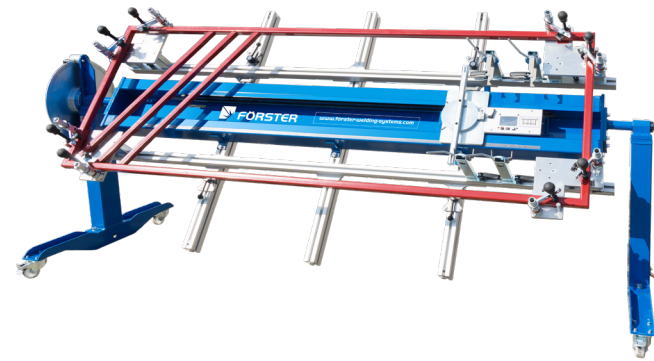
FÖRSTER Rail and Fence Tables



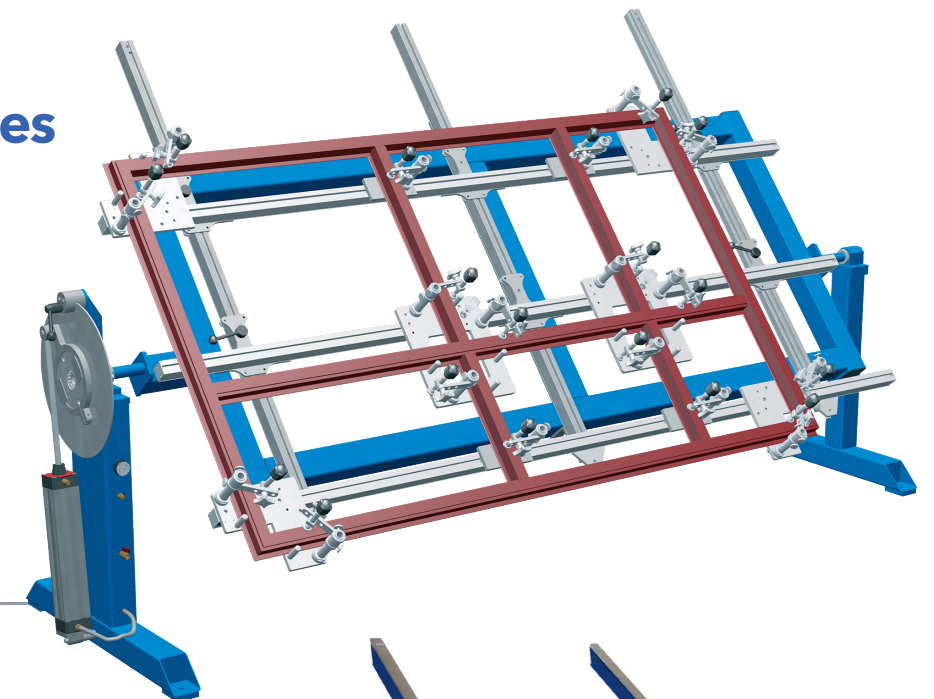
Standard Features

- Positioning of spindles is freely programmable
- Driving carriage moves the spindles to the next position at the touch of a button
- Holders for handrail, top and bottom chord are available as centric clamping units
- Slope angle for banisters can be directly selected at the driving carriage
- Optimal positioning for inserting, tacking and welding

Our new railing welding fixtures can reduce the welding time for railing production up to 50% by streamlining the welding task to make the project as simple and seamless as possible. With our new railing welding fixtures, producing railings has never been so fast and easy.



FÖRSTER Frame Tables



Standard Features

- Parallel movable exactly according to scale
- 360° welding with clamping corner braces that have been specifically designed for this purpose
- Pneumatic load balancing system for wider non-centrally positioned frames

The frame welding fixtures offer fast and easy adjustments for welding on all sides of rectangular frames. The frame railing fixture exposes the angles on the upper and lower side of the frame are exposed for welding operations.

Mechanical clamping elements, with spindle-compression, are located in close proximity to the weld joint, allowing irregularities in the joint to be sensitively compensated.

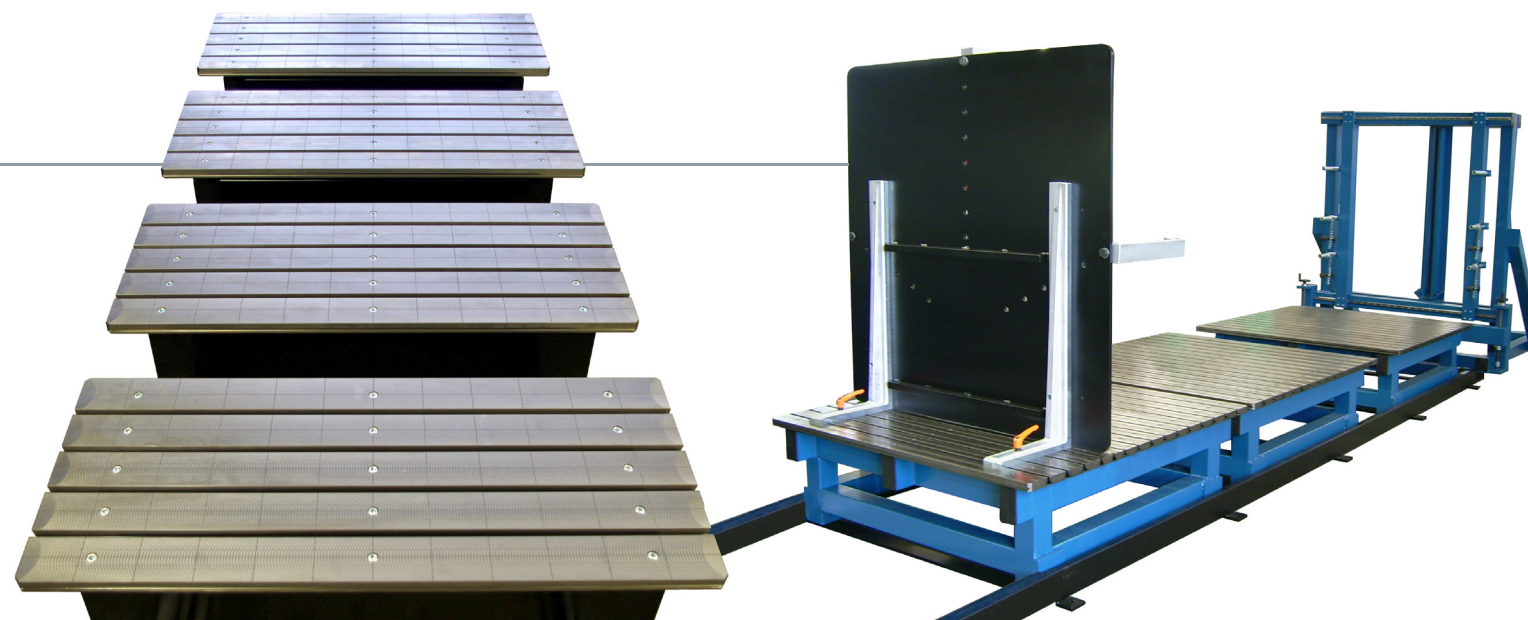
The clamping corner on the left target forms the 0- point of the x- and y-axis. The frame welding fixtures can be swiveled about 225° to 360°, depending on the size of your components to allow the frames to be welded overleaf.



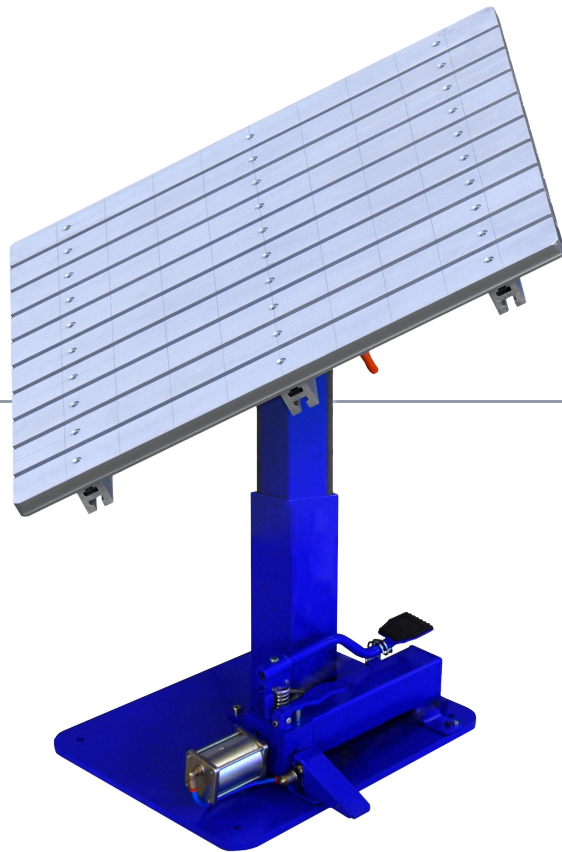
FÖRSTER Bridge Tables

Completely movable on floor rails, this table combination is highly customizable and perfect for welding stations that handle large structural steelwork constructions.

Individual tables can be moved on level rails throughout the production hall. Rails are floor mounted, angled for forklift capability, and tables/bridges can be fixed along the rail if necessary.



FÖRSTER ErgoFix



Standard Features

- ▶ Continuous hydraulic adjustment of the table top height from 27.2 in to 39 in
- ▶ Rotates 360° with continuous locking
- ▶ Tilttable up to 45° angle

With our Ergofix® manipulator, steps are much easier than before. The welding table is infinitely adjustable in height, can be tilted to 45°, and rotated 360°.

The Ergofix manipulator allows the user maintain an ergonomic posture for optimal welding results. It is an ideal solution when combined with our vacuum clamping system, Vacufix®.



FÖRSTER Scissor Tables



When manufacturing components that are difficult to handle for a welder due to the heavy weight alone, our scissor lift table proves itself.

The flexible scissor table's height is adjustable with a hydraulic lift platform substructure and under chassis. The table top can be moved up or down during operation via remote control and rotated by hand for ergonomic welding of even the heaviest welding parts.

The table surfaces of the welding tables are available with cast iron rails or aluminum-copper rails (for stainless steel machining).



WELDING SMARTER



"We bought two tables and quickly realized the benefits and purchased two more a year later - production realized 25% improvement in time, but more importantly was the improvement in accuracy."

Mark Thurston
Shop Supervisor, HHI Corporation