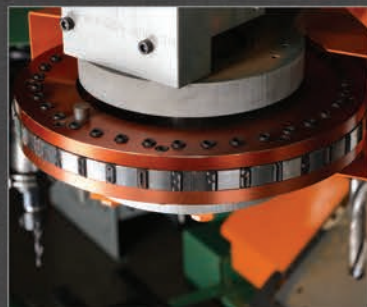


**Peddinghaus**

**HSFDB-C**

HIGH SPEED BEVEL PLATE PROCESSOR



# Dear Industry Partner,



Anton Peddinghaus

## Welcome to the World of Peddinghaus – The World of “BETTER”.

In the world of Peddinghaus we aim to be better. Take a look at any of our 5,000+ installations throughout the globe. These fabricators experience reduced costs and higher production using our equipment. Why? Because with Peddinghaus they receive better technology, better service, and better quality than anyone else can provide. These things aren't easy to do, and not every company can guarantee what Peddinghaus does. I am proud that I can say these things because at Peddinghaus we work harder than anyone to give our customers the best. Whether they are located in New York, Los Angeles, or Chicago; they all receive the very same service, spare parts, and support that is second to none.

## Welcome to Partnerships – From Software to Service to Sales.

At Peddinghaus we maintain strong partnerships with industry leaders to ensure your success. Whether this is our relationship with leading software providers (such as Shop Data Systems, Sigmanest, Steel Office, AceCad, Tekla, FabTrol, Design Data, and more) or our partnership with regional sales and support organizations - our goal is to work together to serve you better.

## Welcome to the HSFDB-C – More than Just a Machine.

If you're using a burn table you have already experienced how much labor, floor space, and cost is involved with processing plate using old-fashioned technology. That is why Peddinghaus has redefined plate processing with the all-in-one HSFDB series of CNC plate processors. Born from the technology of the original HSFDB product line, the HSFDB-C boasts new features such as bevel cutting, SignoMat stamping, and an expansive 12-station tool changer. Structural fabricators, manufacturers and service centers the world over have learned quickly that this concept is the answer to the problems that older plasma cutting technologies present.

In today's world how do you compete when steel can be bought and sold at close to the same price as your competitors? You must minimize the cost to fabricate! The HSFDB-C can process parts at unbelievable speeds, averaging 1 ton per hour of plate up to 1" thick, and an impressive 2 tons per hour of plate thicker than 1". Combine this with a single operator and half the floor space of standard burn table technology and witness true return on investment.

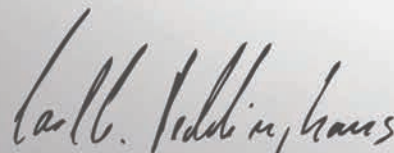
## Welcome to Peddinghaus Service – Unmatched Global Support.

At Peddinghaus service is priority number 1. Peddinghaus' global team of customer support representatives are on duty, on call, all the time at our very own 24-hour customer support center. Combined with state-of-the-art remote diagnostic software, readily available local field support professionals, and the industry leading warranty - customer support from Peddinghaus is only a call or a click away.

## Welcome to Peddinghaus – A Tradition of Innovation, a Reputation for Excellence.

My great-grandfather and grandfather perfected Ironworkers during their time with Peddinghaus; then it was my father's turn to pioneer the TDK drill line. In today's world I am proud that we at Peddinghaus continue to offer new solutions for our customers such as the HSFDB-C. This is only possible through constant innovation, and continuing investment in research and development. I invite you to see why Peddinghaus technology is the chosen provider for steel fabricators the world over.

Please visit [www.peddinghaus.com](http://www.peddinghaus.com) for a “video test drive” and additional technical details on the HSFDB-C. Or, plan a visit to the Peddinghaus manufacturing campus at our headquarters in Bradley, IL USA. See the depth of our organization, and our commitment to your success with world class customer support.

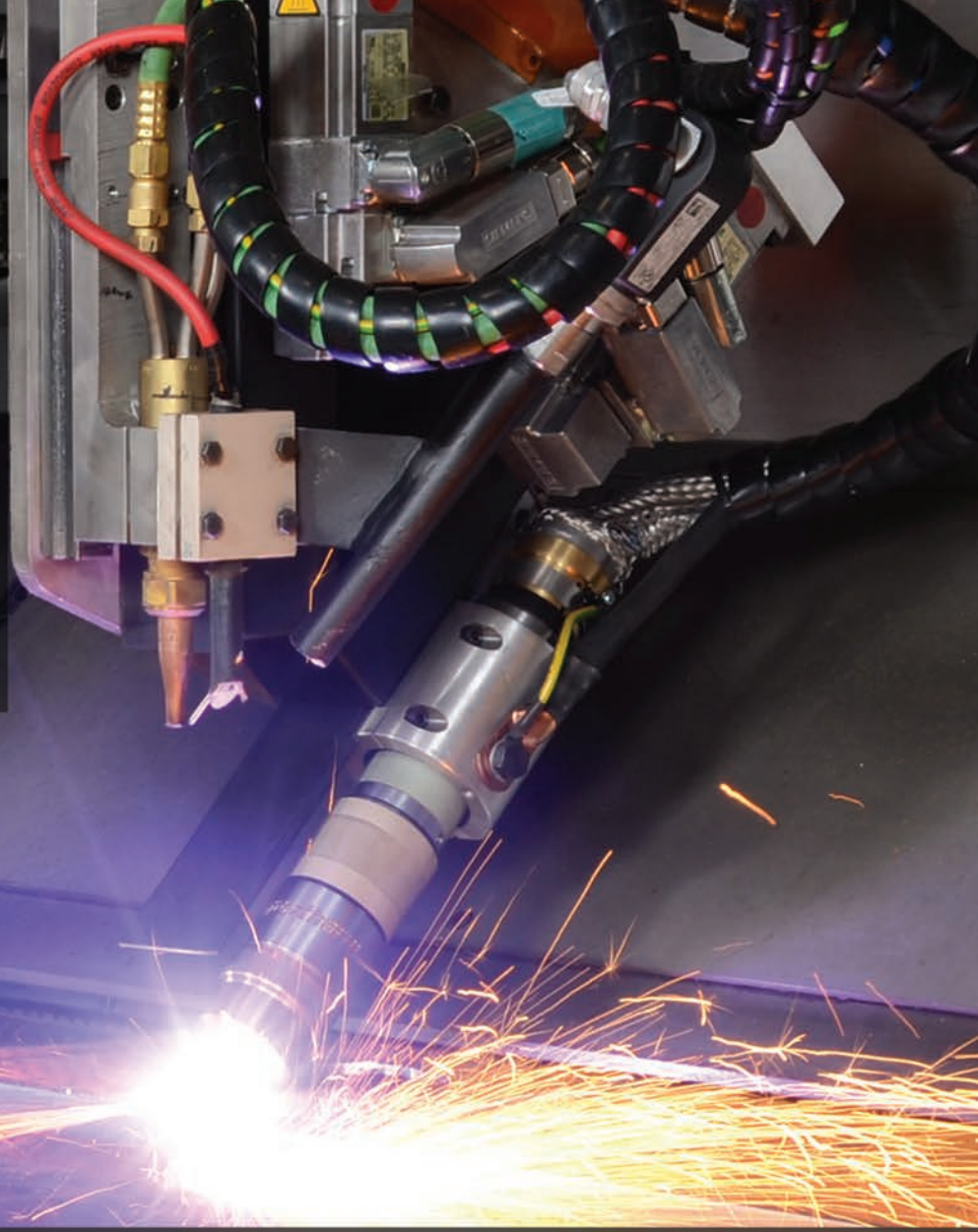


Carl G. (Anton) Peddinghaus | Chief Executive Officer | Peddinghaus Corporation

## Ideal for Processing Structural Steel in an Array of Applications Including:

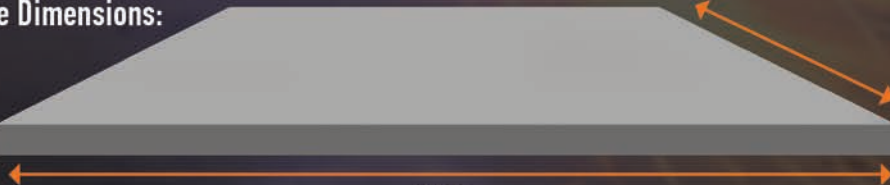
### Including:

- Steel Construction
- Service Centers
- Agricultural Equipment
- Farm Implement Manufacturing
- Automotive Conveyor
- Assembly Line Fabrication
- Solar Panel Fabrication
- Trailer Manufacturing
- Conveyor Manufacturing
- Earth Moving Equipment Fabrication
- And Many More



### Acceptable Plate Dimensions:

Thickness:  
1/4"\* - 4"



Width:  
6" - 96"\*\*\*

Length:  
Min. 35.5"  
(Max length dependent  
on max weight of  
34,000 lbs.)

\*Minimum thickness for stamping is .56"

\*\*10' model available upon request

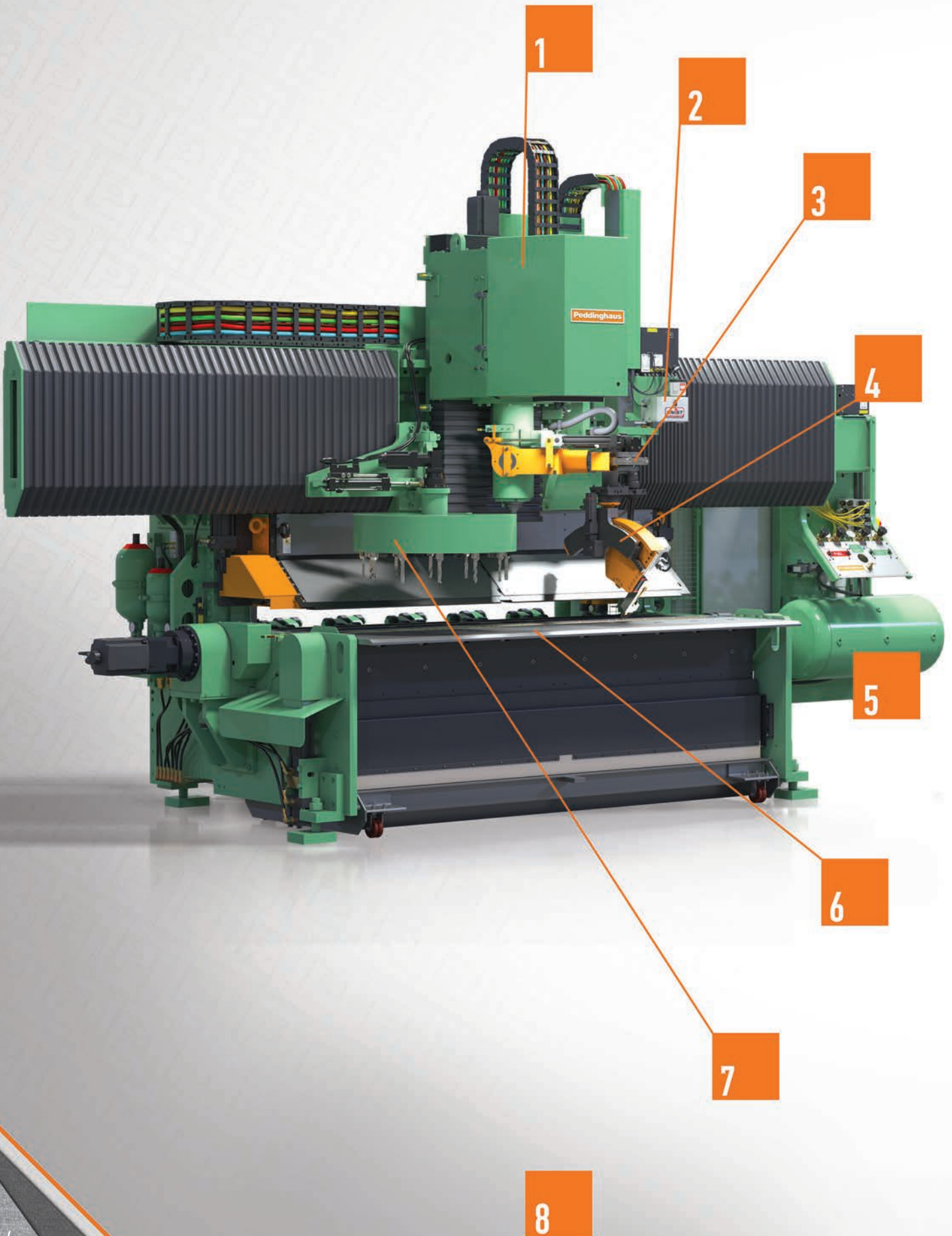
### Spindle Specifications

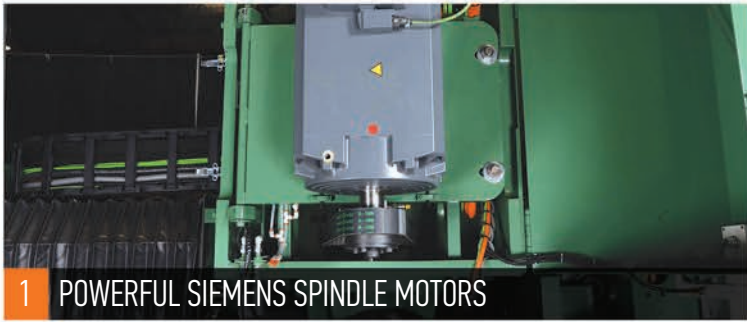
Maximum Drill Size	3"
Minimum Drill Size	1/4"
Maximum Spindle Speed	2250 RPM
Spindle Horsepower	48 HP
Tool Change Capacity	12

### Plasma Specifications

XPR 300 Edge Start Max Thickness	2-1/2"
XPR 300 Edge Start Min Thickness	1/4"
XPR 300 Piercing Max Thickness	1-1/4"
XPR 300 Piercing Min Thickness	1/4"
HPR 400 Edge Start Max Thickness	3-1/4"
HPR 400 Edge Start Min Thickness	1/4"
HPR 400 Piercing Max Thickness	2"
HPR 400 Piercing Min Thickness	1/4"

# Another Industry First From Peddinghaus





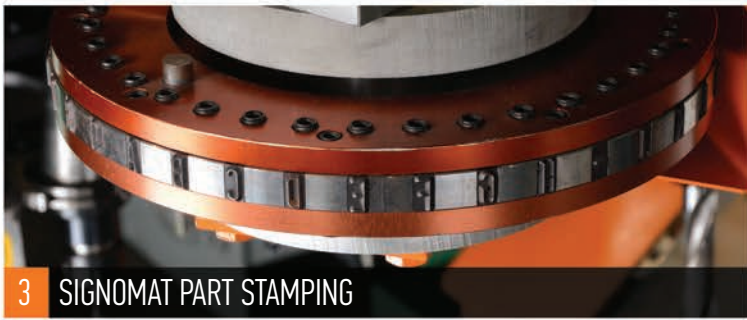
### 1 POWERFUL SIEMENS SPINDLE MOTORS

- High speed 48 HP Siemens intelligent spindle motor
- Spindle speeds of up to 2250 RPM
- Maximum spindle size of 3"



### 2 MINIMUM QUANTITY LUBRICATION

- 97% air, 3% eco-friendly vegetable oil-based lubricant
- Eliminates flood coolant mess
- No need to clean parts before additional fabrication processes (welding, painting, etc.)



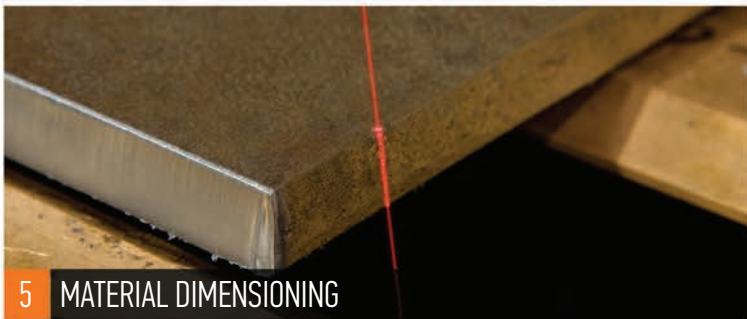
### 3 SIGNOMAT PART STAMPING

- 36-station (number/letter) part marking press
- Rotates 360° to achieve proper orientation of characters in relation to part nest positioning



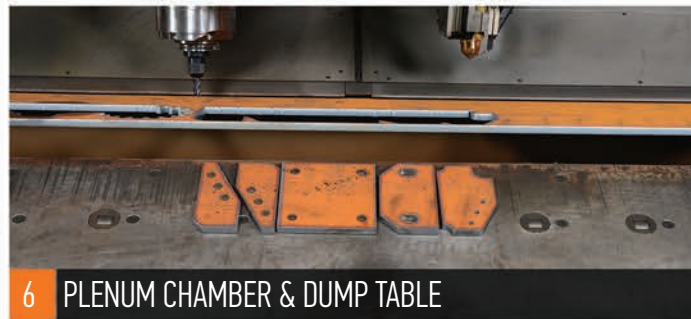
### 4 PLASMA/OXY-FUEL BEVEL CUTTING

- Optional bevel cutting assembly for both plasma and oxy-fuel torches
- High speed plasma: 300 or 400 amp plasma systems are available



### 5 MATERIAL DIMENSIONING

- Plate edge dimensions are detected by a contemporary laser probe system
- Plate thickness is determined by a transducer which is mechanically linked to the vertical clamping and drive mechanism



### 6 PLENUM CHAMBER & DUMP TABLE

- Dump table mechanism
- Parts up to 1,000 pounds can be unloaded with ease
- Copper lined plenum chamber is integrated for easy removal/containment of machine byproduct
- Parts handling options available



### 7 12-STATION TOOL CHANGER

- Rotary tool changer capable of holding up to twelve tools
- Eliminates the need to manually change tooling during production
- Tool selected upon program command



### 8 ADVANCED PEDDINGHAUS CONTROL

- State-of-the-art Siemens electronics
- Robust and intuitive user interface
- Modern remote assistance and web cam technology for real-time troubleshooting
- Siemens 10 year spare parts guarantee



# Profitable Plate Production

## High Speed Plate Processing

Powerful drilling technology, unmatched material handling efficiency, and superior design make the HSFDB-C the competitive edge of fabricators all over the globe. A high torque Siemens 48 HP spindle motor is employed on the HSFDB-C to endure the most rugged drilling applications. High speed drilling of up to 2250 RPM and feed rates of nearly 30 IPM provides opportunities where traditional high speed tooling falls short.

## Process Up To 4" Thick Plate

Whether it's the speed of plasma, or the economy of oxy-fuel, thermal cutting is available in all forms on the HSFDB-C heavy plate processor. Plate beveling technology on the HSFDB-C is designed so that both the plasma and oxy-fuel cutting torch of the machine can utilize beveling capabilities with the application of a single cutting assembly. With oxy-fuel, plate up to 4" thick and 10' wide can be processed with more ease than ever before. The HSFDB-C gives your shop the capacity to expand into untapped heavy structural markets.

## Accuracy and Repeatability

Inconsistencies in cut quality are a problem of the past with the HSFDB-C. Manual methods of plate processing allow significant room for error, especially when running large amounts of plate with the same nested part. The HSFDB-C's ability to measure and produce perfectly accurate parts faster than manual measurement processes means better plate utilization, lower costs per ton and a faster return on investment.

## Versatile Operations

Equipped with the ability to drill, mill, tap, countersink, deburr, plasma cut, oxy-fuel cut, bevel cut and mark using the latest in tooling technology, the HSFDB-C is efficient in all heavy plate fabrication processes. These features allow fabricators with complex plate applications to take advantage of cost savings offered by a more compact, more versatile and more productive option for processing plate.

## Benefitting Downstream Processes

This CNC plate processing design by Peddinghaus drives material to the operating area of the machine as opposed to bringing the operating area of the machine to material, like traditional burntable systems. The HSFDB-C provides constant material output for welders and fitters, allowing them to focus on assembling the end-product, topping out the fabrication process.



Accelerate Processing



Bevel Cut 4" Thick Plate



Increase Accuracy



Maximize Employee Productivity





# Modular Designs

## *The Peddinghaus Way*

### Speed and Versatility Combined

The streamlined flow of finished parts from stock plate to final assembly is just as critical as drilling, cutting or other ancillary operations. Eliminate unnecessary manual handling with a Peddinghaus plate processing system. This provides unmatched efficiency in all aspects of operations.

### The Side Unloading System

The Side Unloader parts conveyor is designed to allow finished parts (up to 1,000 lbs) to drop directly onto a hardened steel conveyor, delivering them to an ergonomic unloading height at the operator station. The Side Unloader conveyor option transfers parts while the machine is in continuous operation.

The Side Unloader integrated with two 6' roller transfer modules facilitates the automated removal of both short and long parts. Smaller parts are unloaded directly onto the side unloader and delivered to the operator station. This option also comes equipped with a retract system allowing for easy access to the operating area and scrap cart beneath the machine.

### The Front End Unloading System

The Front End Unloader conveyor system is comprised of two roller transfer modules, each 6' in length, and a front end unloading belt. This is designed to streamline the handling of finished parts by conveying them from the operating area to a convenient unloading area. This option comes equipped with a retract system allowing for easy access to the operating area and scrap cart beneath the machine.

### Minimize Footprint

Peddinghaus' Roller Feed design makes it easy to place infeed conveyors outdoors. In addition to saving shop space, this innovative method eliminates unnecessary crane handling that inhibits other operations inside of the shop. Easily unload delivery trucks outside, and load the conveyor without slowing down other parts of production.



Unmatched Efficiency



Side Unloading System



Front End Unloading System



Store Material Handling Outdoors



# Peddinghaus Software

## *Linking Design to Fabrication*

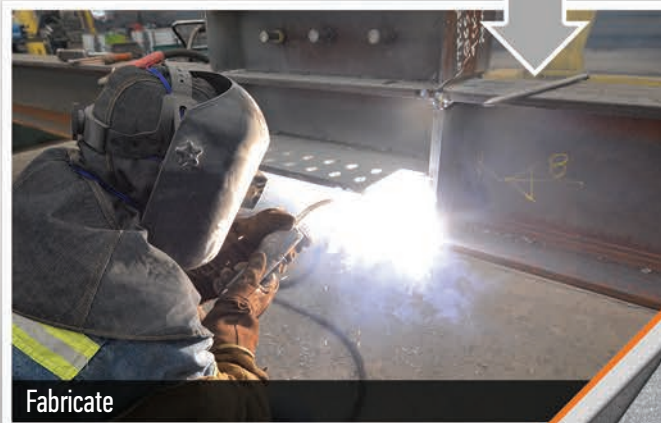
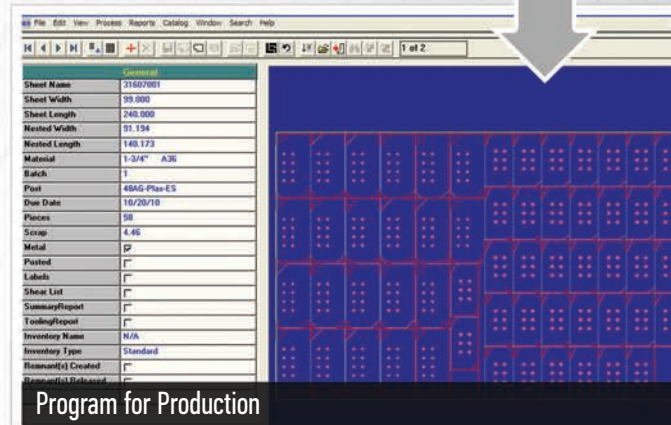
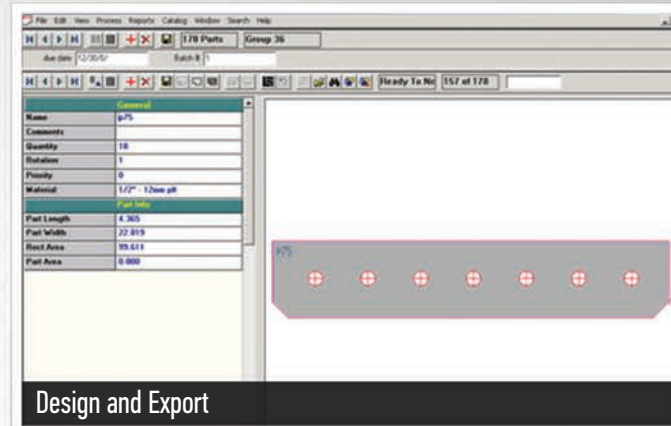
### Nesting Software

The HSFDB-C proudly operates with many of today's modern nesting software solutions. These solutions allow fabricators to automatically batch nest existing files, edit on the fly, or create parts at the control console. There are no limitations to your programming needs!

Using a wide array of software solutions, the Peddinghaus HSFDB-C is able to take full advantage of common cutline, chain cutting and edge start cutting techniques.

### Software Features For Peddinghaus Plate Machines:

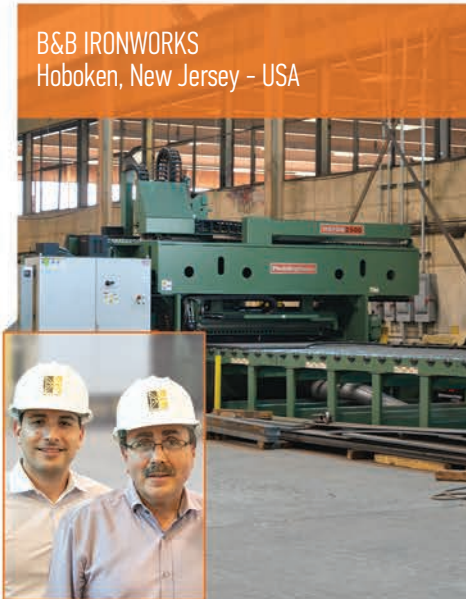
- Automatic Chain Cut Batch Nesting
- Automatic Common Line Batch Nesting
- Edge Start Nesting Technology Maximizes Machine Capability
- Automatically Process an Entire Plate with No Full Kerf Pierces
- Automated End Milling Programming and Support
- Automated Face Milling Programming and Support
- Automated Counterboring, Tapping, and Drilling Cycles
- Automatic Pilot Hole Creation - Maximizes Consumable Life
- Advanced Part-Within-Part Nesting
- CAD Module for On the Fly Part Modifications
- Integrated Tool and Drill Management
- Automated Lead-In and Lead-Out Programming with On the Fly Modifications
- Integrated Material Database
- Production Tracking and Progress Reporting
- Nesting Report Tools which Include Time Estimates and More
- Automatic Import and Tooling of Multiple Common File Types Including DSTV, DXF, etc.
- Automatic Tailstock Nesting
- Optional Inventory Management Module with Automatic Remnant Creation





# HSFDB-C User Testimonials

B&B IRONWORKS  
Hoboken, New Jersey - USA



"The machine goes up to four inch thick plate, and does beveling precisely and fast. Before we had the HSFDB-C, we used to cut the plate and bevel with a saw which took a long time. It's a perfect machine that does everything all around."

- Mauro Belgiovine, President

"I would say the best feature about the beveling on the HSFDB-C is the precision. Prior to this we were cutting all our plates either with a saw or most likely by hand with a torch. Not only was that very imprecise but also we had to grind and clean, spending hours smoothing out those surfaces before they could be properly prepped for welding. The machine not only can perform all the beveling precisely and nest multiple parts together to save time, but it also completely eliminates the grinding and cleaning afterwards."

- Vincent Belgiovine, Vice President

NEW INDUSTRIES  
Morgan City, Louisiana - USA

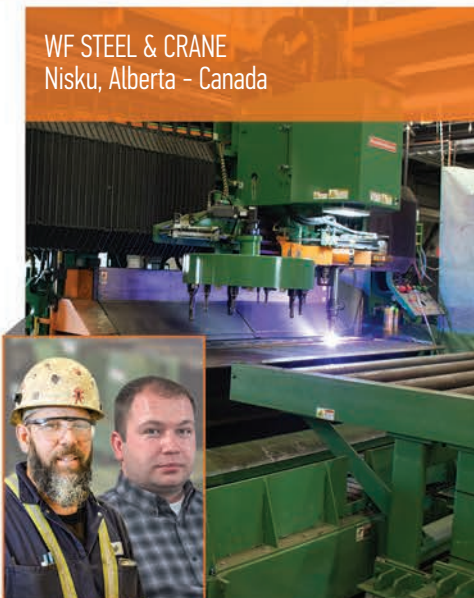


"When we saw the latest machines from Peddinghaus that could process thicker plate and could drill smaller holes, we knew we needed that additional capacity and flexibility. Before this machine [HSFDB-C], all beveling had to be done manually, either by hand or using a track torch. This meant that we had two or three fitters working several shifts to accomplish what we now do on the machine. In addition, those fitters had to be some of our most talented craftsman. The machine bevels are more accurate and consistent which saves us a lot of welding time and our best fitters can go back to doing what they do best - fitting! With the new stamping unit, I don't have someone writing a part number on the part with a paint pen. This means that we don't have to worry about numbers being transposed or unreadable like we used to."

I like big, strong, robust machinery. Peddinghaus makes a strong machine and they service it. At the end of the day, your machine doesn't make you money if it's not running. That is why I chose Peddinghaus."

- Bill New, President

WF STEEL & CRANE  
Nisku, Alberta - Canada



"The main benefit of the equipment for us is the speed and the accuracy. I remember when we first got our plate machine, we were doing a cold box which was 35' x 35' base x 220' tall, heavy plate, heavy everything. Our guys were still laying these beams out, laying these columns out and laying these plates out by hand and drilling them. We ran the first batch of plates on that machine and it was done in a shift, we were done with all of those base plates. It was an eye opener for the shop for sure."

- Ryan Schram, Structural Division Manager

"The build quality of the machine is quite good, they are solid machines. It puts out a lot of steel and it's what's allowed this company to expand. The machinery has allowed us to bid on larger jobs that otherwise we would not have been able to accommodate. Production has increased and the new machines have allowed us to put out more steel to bid on larger jobs instead of the smaller portions of big, structural jobs."

- Rob Kohler, Detail Supervisor



Peddinghaus

301 N. Washington Avenue

STRONGER THAN STEEL

Peddinghaus

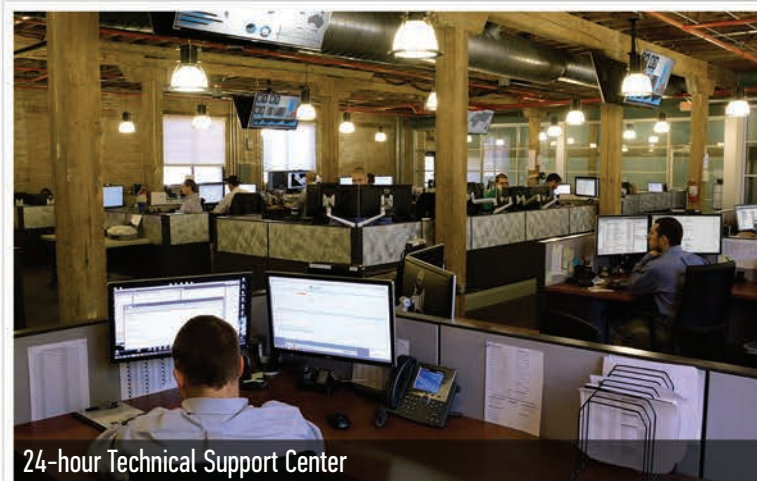
Peddinghaus

# The Best Support in the Industry

Peddinghaus strives to provide an unparalleled level of service for industry partners, no matter where in the world they are located. This is done by offering the only 24-hour technical support center in the industry and employing an expansive team of field service technicians throughout the globe.

## 24-hour Technical Support Center

Located in Bradley, Illinois - USA, Peddinghaus maintains a 24-hour technical support center to assist customers with any questions or concerns that may arise in the operation of Peddinghaus machinery. Service technicians leverage remote diagnostic software as well as web cameras in order to troubleshoot questions. Over 95% of telephone calls are resolved without the need for an on-site visit from a Peddinghaus technician.



24-hour Technical Support Center

## Global Access to Spare Parts

Peddinghaus maintains vast amounts of spare parts at their North American locations and are in close proximity to major ports and shipping hubs. For international partners, local spare parts storage is maintained at our sales and service offices around the globe. In addition, local dealer representatives and dedicated parts storage facilities have been established throughout the world to expedite part shipments. This means faster delivery of parts when they are needed.



50+ Field Service Technicians

## Expansive Team of Field Service Technicians

For advanced issues, over 50 field service technicians are employed by Peddinghaus throughout the world. Technicians are conveniently located geographically and may be based out of an office near your installation. These technicians operate globally and are available for on-site assistance.



PeddiUniversity Training Center

## World Class Training for Maintenance Staff, Operators and Programmers

Peddinghaus offers training on-site, over the internet and at their corporate headquarters for maintenance staff, operators and programmers. Training at Peddinghaus' global headquarters is free of charge for those willing to make the trip and provides staff with direct access to the masters behind the machinery.



**Peddinghaus**

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

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