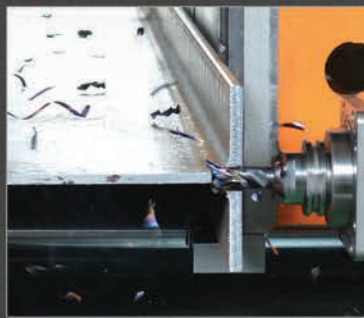


**Peddinghaus**

**PeddiSubX-1120**

THREE SPINDLE SUB-X DRILL LINE





# A Letter from the CEO



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 PeddiSubX-1120 – The Fastest Drill Line in the Steel Industry.

At long last my dream has come true, the Peddinghaus team has designed the fastest drill line in the steel industry. The last drill line you will ever need is now at your doorstep with the all new PeddiSubX-1120. Drilling and milling processes have been re-revolutionized and fabricators' profits have been re-energized!

This drill line has the ability to simultaneously drill holes, mill copes, rat holes, flange thins and ArcWrite. It's been a long time since fabricators have seen such a sharp spike in savings, and an even sharper spike in the quality of a finished beam. I am proud to officially present you with the new wave of high-speed Sub-X drilling from Peddinghaus. Set this machine into your production line and there is no going back, ever.

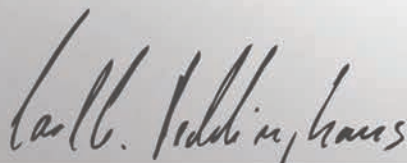
## Welcome to Peddinghaus Service – Unmatched Global Support.

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 PeddiSubX-1120. 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 PeddiSubX-1120. 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.

A handwritten signature in black ink that reads "Carl G. Peddinghaus". The signature is written in a cursive, flowing style.

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



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

### 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



### System Specifications

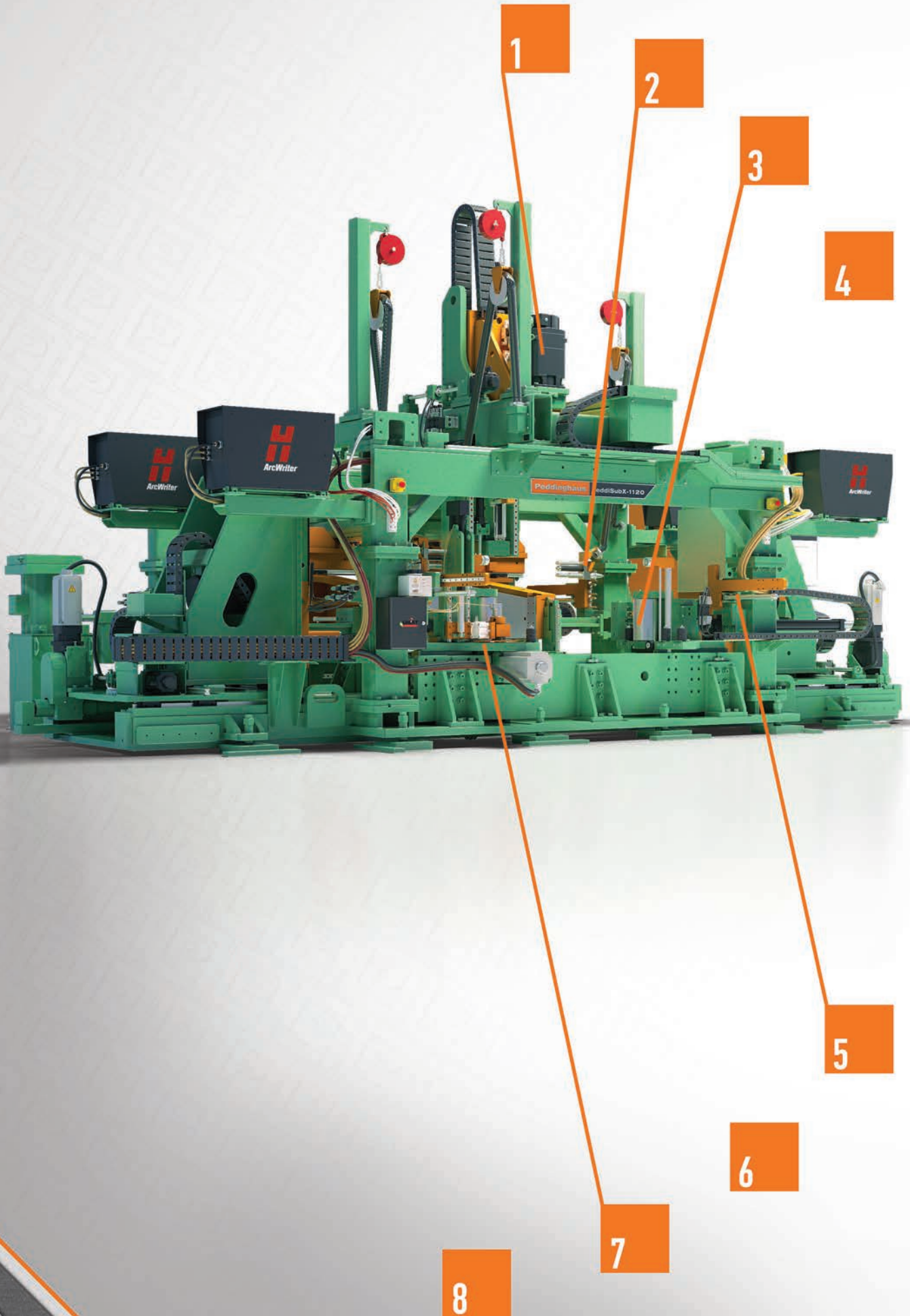
Maximum Area of Sub-X Operation	500 mm
Maximum Sub-X Axis Speed	40 M/min
Maximum Hole Diameter	40 mm
Minimum Hole Diameter	8 mm
Number of CNC Axis	16
Spindle Power	18.5 kW
Tool Changer	6-Stations Per Spindle Axis
Layout Marking	4 Sides
Number of Material Clamp Points	14

### Material Dimensions

Maximum Material Dimension	460 mm × 1120 mm
Minimum Material Dimension	20 mm × 75 mm
Maximum Material Thickness	75 mm
Minimum Material Thickness	6 mm (Beam, Tube, Channel & Angle)
Maximum Profile Weight	446 kg/m (8,164 kg max)
Minimum Stock Length	3.4 M



# World's Fastest Drill Line







### 1 POWERFUL 18.5 KW SUB-X SPINDLES

- An impressive Sub-X zone of 500 mm per spindle
- Process an entire area of material with minimum spindle downtime
- Simultaneously drill, mill, tap and countersink on 3 surfaces at once
- Process profiles at 40 M/min



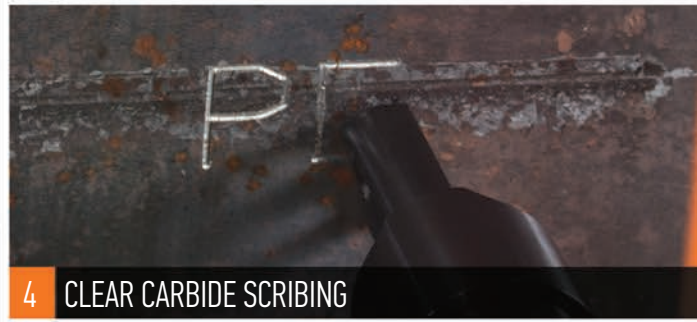
### 2 PATENT PENDING HYPERTHERM ARCWRITING

- Simultaneously mark on all sides of the material
- The fastest solution for marking a profile
- Mechanical surface detection maintains proper torch standoff with variations in material surface



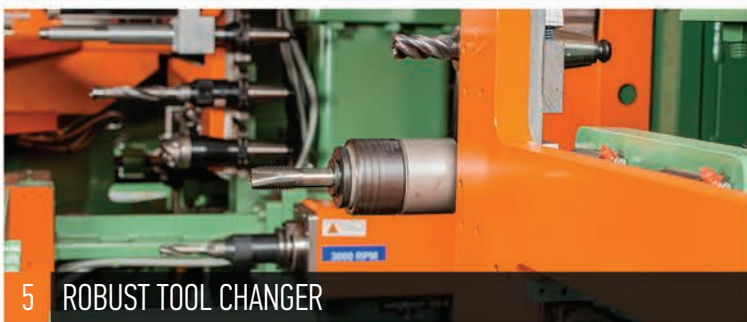
### 3 AGGRESSIVE 14-POINT CLAMPING SYSTEM

- Eliminating vibration is critical to successful carbide drilling and milling
- The PeddiSubX-1120's 14-point clamping system provides maximum rigidity, thus higher speeds/feeds and superior tool life
- The new outfeed positional clamp secures material reducing vibrations as close to the drill spindles as possible



### 4 CLEAR CARBIDE SCRIBING

- Mark on all 4 sides of material simultaneously
- Clear part numbers and designated weld locations
- Adjustable marking depth of 1.5 mm to 3 mm
- Visible after blasting, painting or galvanizing



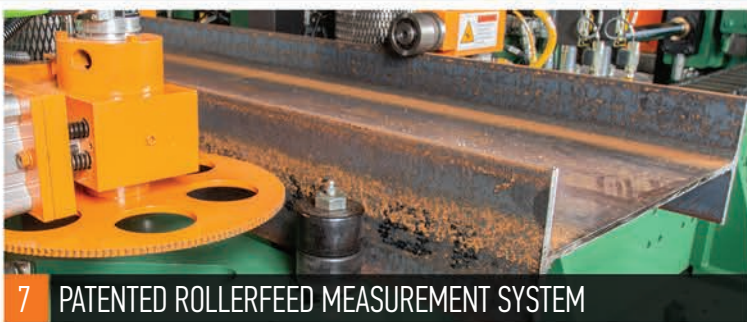
### 5 ROBUST TOOL CHANGER

- Six tools per spindle
- Eliminate the need to manually change tooling during production
- Tool automatically selected upon program command



### 6 ELECTRONIC MOTION

- Servo driven ball screw axes with precise positional feedback
- Robust ball screw for maximum process durability



### 7 PATENTED ROLLERFEED MEASUREMENT SYSTEM

- The industry standard for roller measurement
- Superior accuracy and flexibility on all profiles
- Continuous production - load material while machine processing material
- Easily integrate into an existing system due to the completely modular design



### 8 PEDDINGHAUS CONTROL

- The PeddiSubX-1120 utilizes state-of-the-art Siemens CNC control electronics
- Robust and intuitive user interface
- Modern remote assistance and webcam compatibility







# The Impact of Sub-X Processing

A major difference between shops that succeed and shops that fall behind is the investment in new technology. The ability to recognize when a certain process is failing to meet industry standards is paramount to remaining competitive in the structural steel landscape. Peddinghaus has rewritten the drilling and milling standard with the PeddiSubX-1120. By rapidly decreasing the time it takes to process profiles, the steel fabrication industry has a way to finally keep production timetables ahead of schedule for years to come.

## Hyper Speed Production

Sub-X spindle traveling is a relatively new technology, and Peddinghaus has driven this engineering to its maximum capacity. The PeddiSubX-1120 accelerates drilling, milling and ArcWriting processes to a level never before seen in the structural steel industry. With this technology, fabricators can expedite project deadlines and take back the market share.

## Leave Rework in the Past

Many fabricators in the steel industry chase the dream of eliminating rework following CNC processes. Old technology cuts down on fabrication time, but manual cleanup techniques bog down the efficiency. With drilling, milling, ArcWriting, scribing, tapping and countersinking, the PeddiSubX-1120 transcends typical drill lines to a whole new machine process.

## Multi-Process, Multi-Profit

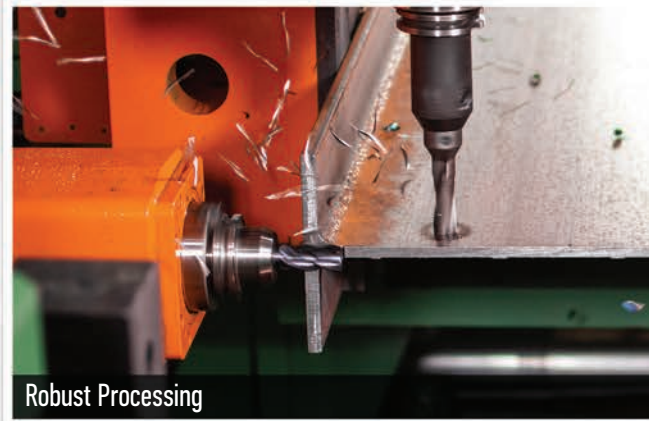
Simultaneous and independent processing is no longer a distant notion with the PeddiSubX-1120. Process copes, rat holes, flange thins, drilled holes, tapped holes, countersunk holes and more without the restrictions of other drilling axes that hinder production. The PeddiSubX-1120 has removed the chains holding back traditional CNC drill lines and let loose the beast that is Sub-X production.

## ArcWriting Layout Marks on All 4 Sides

When fitters and welders put down their tools to spend time reading drawings, pulling tape and marking beams to make sure the material is correctly fit, a massive bottleneck is provoked. With 4-axis ArcWriting on the PeddiSubX-1120, the potential for human error by manual measurement is eliminated.

## Modular Capabilities

As with all Peddinghaus machines, the PeddiSubX-1120 follows suit by limiting its footprint and by having the ability to be integrated into an existing shop layout. The Peddinghaus Roller Feed measurement system allows for an array of material handling options. Peddinghaus conveyors can be quickly expanded, split apart and modified indoors or outdoors. Process steel with no stop in production.



Robust Processing



Machined Finish



4-Axis ArcWriting



Modular Capabilities



## Peddinghaus Software

Raptor from Peddinghaus is today's premier structural machine tool 3D CAD/CAM platform. Equipped with versatile modules to import, modify, inspect, create and export part programs, Raptor is fully customizable to fit the unique needs of the individual fabricator.

### 3D Module – Modify, Inspect, Create

The core of Raptor is the 3D Module. If part data has been imported into Raptor, the 3D Module works as an inspection tool and is capable of modifying imported part information. If part files need to be created, the intuitive design and user-friendly interface of the 3D Module allows for powerful programming options.

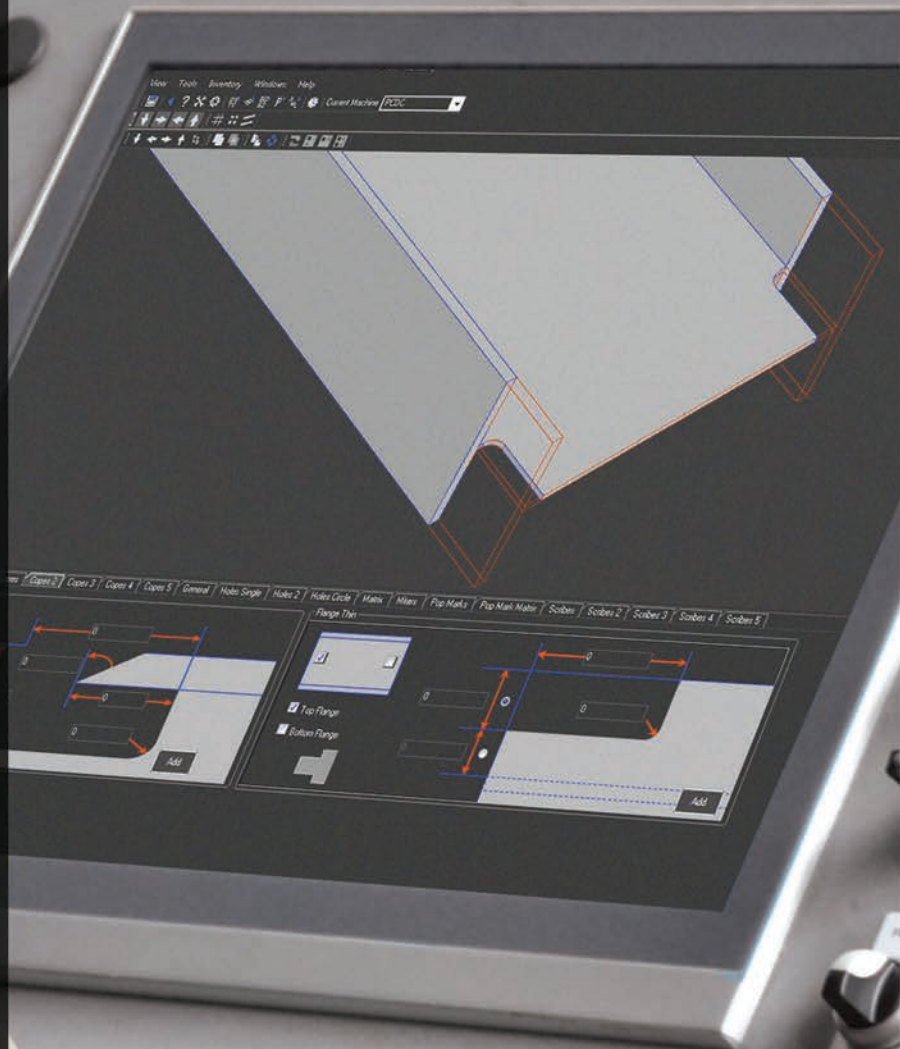
### Tekla API Import Module

The Tekla API Module allows for the direct importation of Tekla part files into Raptor software, eliminating the need to convert to an intermediary file type.

By referencing part data with the Tekla BIM model, Raptor's Tekla API Module is capable of generating scribe marks and weld locations based on the model's original geometry. Using Raptor's Tekla API, Peddinghaus bridges the gap between design and fabrication. This is ideal for machines utilizing 4-axis layout marking.

### DSTV Import Module

Raptor integrates with popular Building Information Modeling (BIM) software programs capable of generating the common file standard – DSTV. DSTV files are imported into Raptor software for editing or for CNC file creation. Commonly used BIM programs include SDS/2 by Design Data, Tekla Structures, Graitec and more.





# Peddinghaus Software

## Linking Design to Fabrication

### DSTV Export Module

Raptor is capable of exporting part information into a DSTV file format (including scribes, copes, pop-marks and holes). All enhancements or corrections applied within Raptor are included within the exported DSTV file using this module. The DSTV export module brings the power of Raptor to third party CNC machinery that can import files of this type.

### iDSTV+ and DSTV+ Import/Export Module

Select MRP systems are capable of exporting batch nested files in a format known as DSTV+ and iDSTV+. These file types play an important role in the automated development of cut sheets for production. Raptor is capable of importing and exporting these DSTV+ and iDSTV+ files for production on equipment. This eliminates the need to manually batch nest files, which have already been batch nested within third party MRP platform.

### Peddimat Import and Export Module

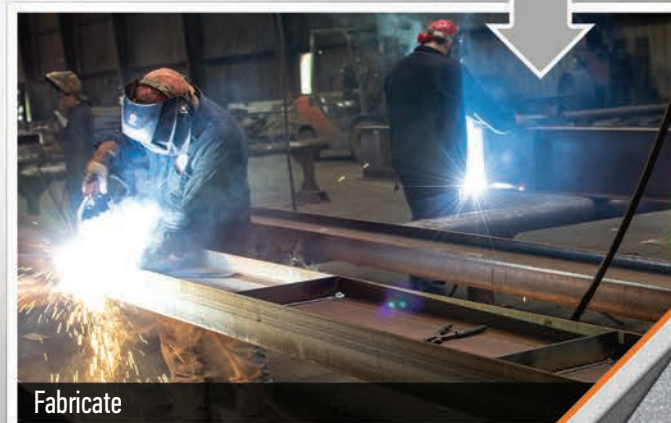
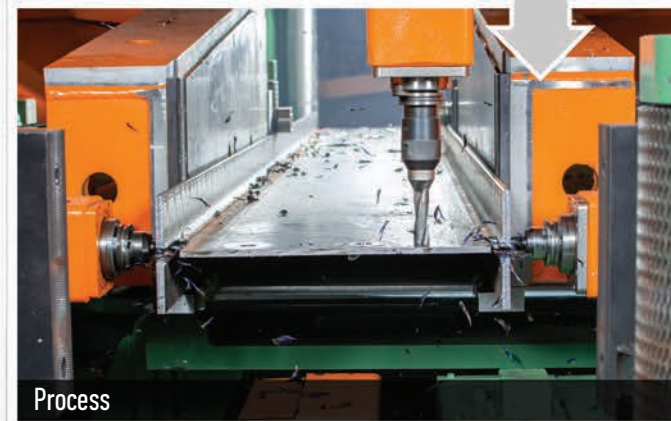
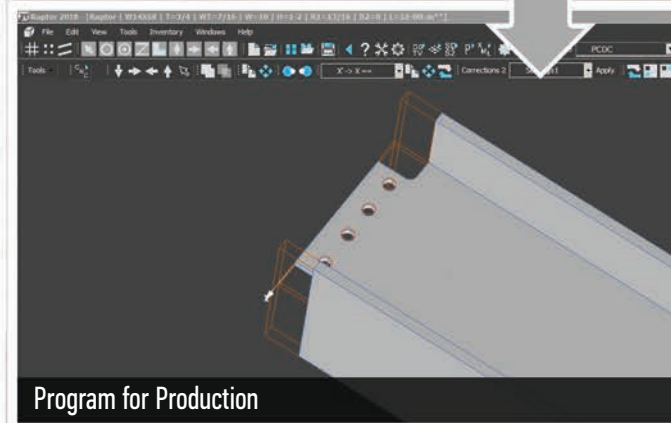
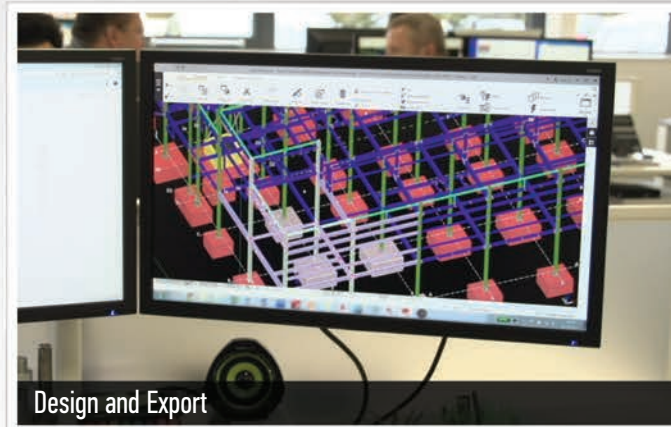
The Peddimat Import and Export Module provides users with the ability to create new Peddimat files or utilize existing Peddimat files within Raptor. This option allows users complete flexibility in regards to legacy software compatibility.

### PeddiTrack Parts Tracking Module

The PeddiTrack parts tracking utility is a module for monitoring the production of parts on Peddinghaus machines using Siemens controls. PeddiTrack works in the background of the CNC control creating output files that display vital information regarding part production.

### Benefits of PeddiTrack Include:

- Documentation of production
- Potential to view progress remotely
- Ability to monitor employee productivity
- Elimination of human error in the production monitoring process



### Raptor Software Modules

IMPORT	Tekla API / DSTV / DSTV+ / iDSTV / iDSTV+ / Peddimat
MODIFY / INSPECT / CREATE	3D Module
EXPORT	Post Processor / DSTV / DSTV+ / iDSTV+ / Peddimat





**Peddinghaus**

201 E. Washington Avenue

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OUR PEDDISERVICE & SUPPORT IS UNMATCHED

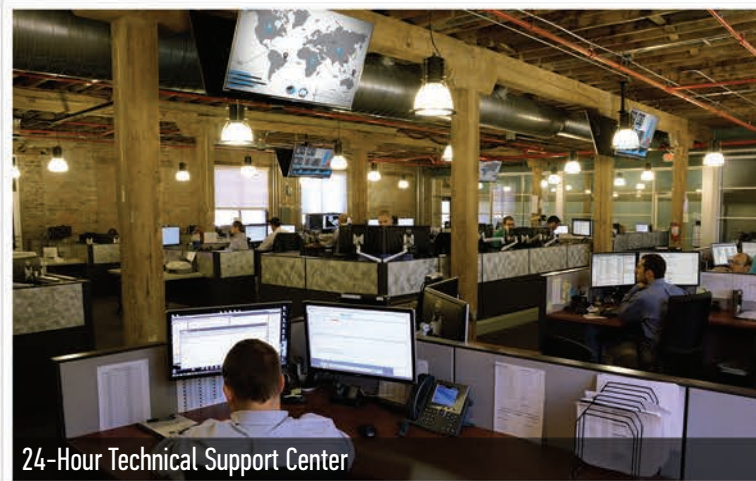


# The Best Support in the Industry

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)

Peddinghaus USA • (815) 937-3800 | Peddinghaus UK • +44 1952 200 377 | Peddinghaus Germany • +49 (0) 2332 72-0  
Peddinghaus Latin America • +52 81-1001-7087 | Peddinghaus Española • +34 945 465370

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