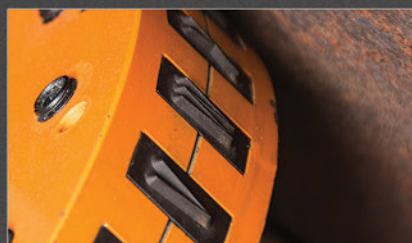


**Peddinghaus**

**Anglemaster-663**

HIGH SPEED ANGLE AND FLAT 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 Mexico City, Mumbai, or Melbourne; 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 Anglemaster-663 – The Most Accurate Angle Line to Date.

Detail components make up the smallest tonnage of any fabricators' workload, but consistently demand the highest amount of labor. Peddinghaus pioneered the concept of the Anglemaster in response to discussions with fabricators looking to reduce labor costs within this realm. Serving as the industry's benchmark for productivity and accuracy, the Anglemaster-663 caters to today's fabricators' need to automate punching, nibbling, shearing and marking for angle and flat bar.

The Roller Feed drive and measurement system from Peddinghaus has been redesigned to improve accuracy even greater than before. By positioning two encoders on the machine, steel can pass through piece after piece with no stop in production. This innovative patented Roller Feed is designed to flex with the material in order to ensure a constant roll and an accurate measurement given deviations in material, maximizing contact with long parts.

## 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 Anglemaster-663. 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 Anglemaster-663. 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 style.

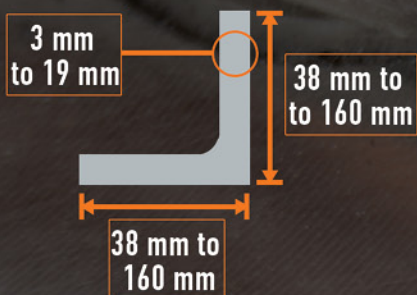
Carl G. (Anton) Peddinghaus | Chief Executive Officer | Peddinghaus Corporation

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

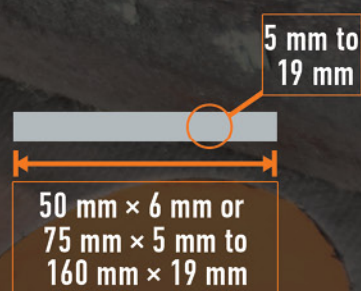
### Including:

- Renewable Energy
- Transmission Tower Manufacturers
- Agricultural Equipment Manufacturers
- Conveyor Manufacturers
- Heavy Equipment Manufacturers
- Steel Service Centers
- Stadium Seating Manufacturers
- Barge and Ship Building Manufacturers
- Overhead Door Frame Manufacturers
- Aggregate Handling Manufacturers
- Lattice Tower Manufacturers
- Steel Stocking Centers

### ANGLE



### FLAT BAR



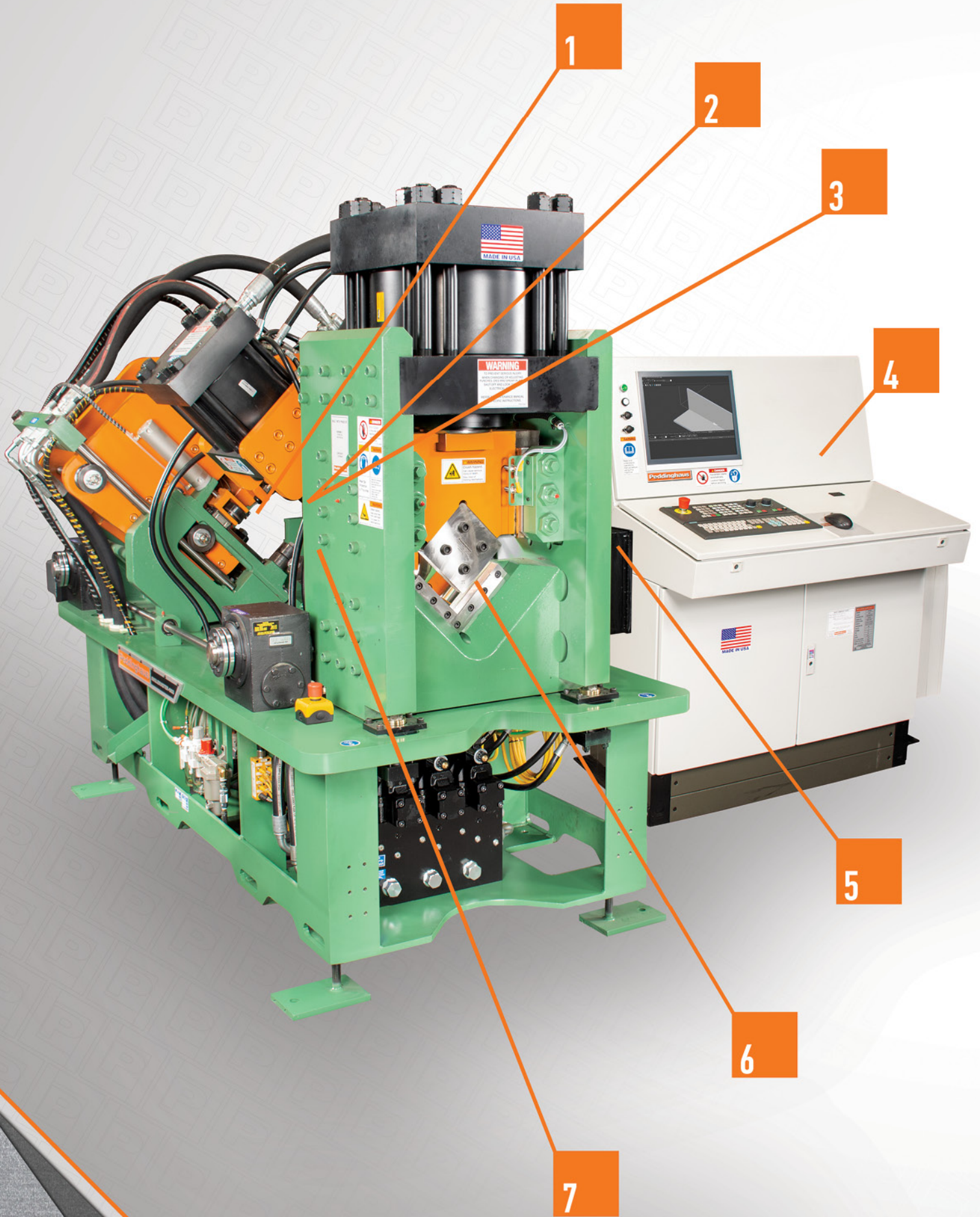
### Shear Specifications

Maximum Angle Size	160 × 160 × 19 mm
Minimum Angle Size	38 × 38 × 3 mm
Maximum Flat Bar Size	160 × 19 mm
Minimum (Narrow) Flat Bar Size	50 × 6 mm
Minimum (Thin) Flat Bar Size	75 × 5 mm
Single Cut Shear Tonnage	290 Tons

### Punch Specifications

Maximum Hole Size (271/272 Tooling)	32 mm
Maximum Hole Size (282 Tooling)	38 mm
Maximum Hole Size (PFP #3 Tooling)	27 mm
Punch Capacity	90 Tons

# Accurate and Versatile Angle Processing





### 1 PATENTED ADVANCED ROLLER FEED MEASUREMENT

- Redesigned Roller Feed measurement adheres to deviations in material
- Continuous feed with no stop in production
- Capable of 60 meters/min X-axis material positioning speeds
- Most accurate measurement system in the steel industry



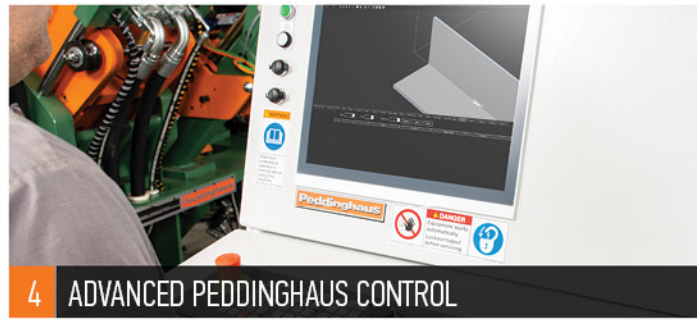
### 2 OPTIONAL SIGNOMAT PART STAMPING

- 36 station (number/letter) part marking press
- Marks at a rate of approximately 1 character per second
- Characters are 12 mm in height and stamped at a depth of 0.8 mm



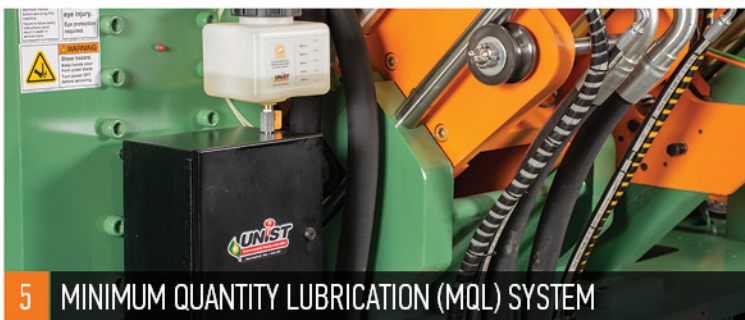
### 3 OPTIONAL SIGNOSCRIPT CARBIDE SCRIBING

- Versatile carbide marking station allows for marking of any shape, number or character
- Mark at multiple depths or sizes without tool change for desired visibility after coatings processes



### 4 ADVANCED PEDDINGHAUS CONTROL

- Robust and intuitive user interface
- Allows for modern remote assistance and web cam technology for fast and real-time troubleshooting
- Siemens 10 year spare parts guarantee



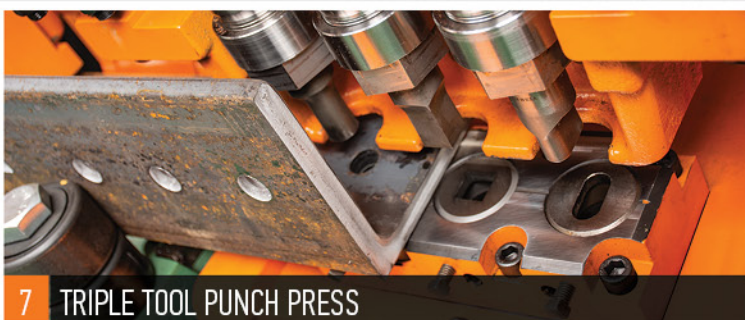
### 5 MINIMUM QUANTITY LUBRICATION (MQL) SYSTEM

- Lubrication system for punches and shear
- Eco-friendly vegetable oil based lubrication dramatically extends shear and punch life



### 6 SINGLE CUT SHEAR

- 290 ton single cut shear
- Accurately shear angle and flat bar with ease



### 7 TRIPLE TOOL PUNCH PRESS

- 90 ton punch cylinder
- Punch up to 3 different tool shapes or sizes per leg of angle in a single pass through the machine
- New and improved punch tool design allows for quicker and easier tool changes



# Continuous Production Achieved

## Six Punches Equals Less Tool Changes

Three punch stations per hydraulic press allow the machine to apply up to three different hole shapes/sizes per leg. A new and improved punch tool design allows for quicker and easier tool changes. The Anglemaster-663 can accommodate shaped holes such as squares, rectangles, obrounds and slots, including a feature that allows nibbling of material for cutting large notches out of angle or flat bar. This particular Anglemaster employs a misting feature in order to maximize punch tooling life during operation through the use of MQL.

## Powerful Shear Tooling

The Anglemaster-663 uses a single cut 290 ton shear press for the cutting to length angle and flat stock. A single cut shear mechanism eliminates the slug created by double cut shear mechanisms. The misting feature on the Anglemaster-663 extends to the shear, now allowing for longer shear life.

## Roller Feed Redesigned

As accurate as measuring material can be, the Roller Feed drive and measurement system from Peddinghaus is designed to improve accuracy even greater than before. By positioning two encoders (infeed and prior to shear) on the machine, steel can pass through piece after piece with no stop in production. This newly designed patented Roller Feed flexes with the material in order to ensure a constant roll and an accurate measurement given deviations in material. This maximizes contact with long parts, eliminating more errors than ever before.

## Stamp or Scribe, it's Your Call

Clear and concise part marking is critical in shop production. Having the information in the right place for your fitters drastically reduces errors and rework. Peddinghaus employs SignoMat part stamping as well as SignoScript carbide scribing to achieve the longest lasting results. The SignoMat part stamping unit holds up to 36 characters, letters or numbers, and are stamped at a depth of 0.8 mm and have a total height of 12 mm. This ensures the markings remain visible even after shot blasting and painting. The SignoScript carbide scribing unit marks layouts as well as characters using CNC precision.

## Material Handling

Loading and unloading of long angle and flat bar sections is costly and difficult work. The Anglemaster-663's material handling system alleviates cost and labor associated with moving sections with the use of a rapid, automated sequence process. Reduced labor and increased shop efficiency results in more profitable processing of angle/detail parts.



290 Ton Shear



Nibbling Capabilities Give Fabricators Greater Possibilities



New Tool Design for Faster Tool Changes



SignoMat Part Stamping 1 Character Per Second

## 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 holes, stamps, scribes and nibbles). 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

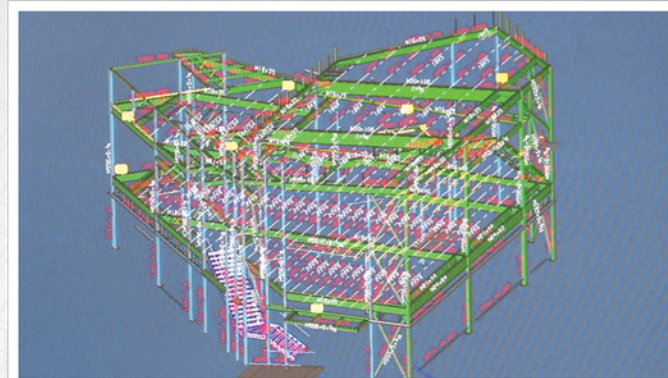
The PeddiTrack parts tracking utility is a module for monitoring the production of parts on Peddinghaus machines using Siemens controls. PeddiTrack works in the background of the CNC control creating output files that display vital information regarding part production.

### Benefits of PeddiTrack Include:

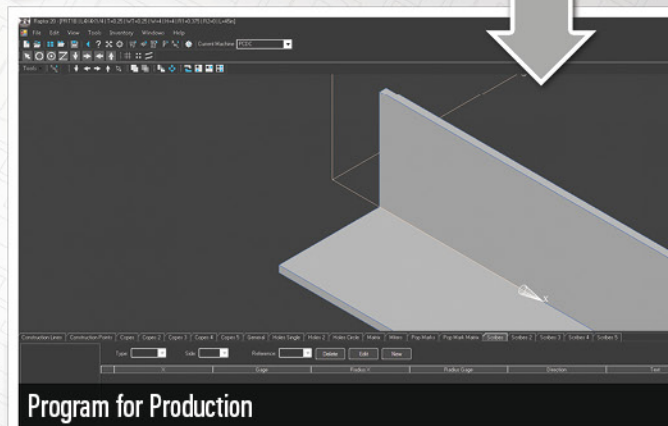
- Documentation of production
- Potential to view progress remotely
- Ability to monitor employee productivity
- Elimination of human error in the production monitoring process

### Raptor Software Modules

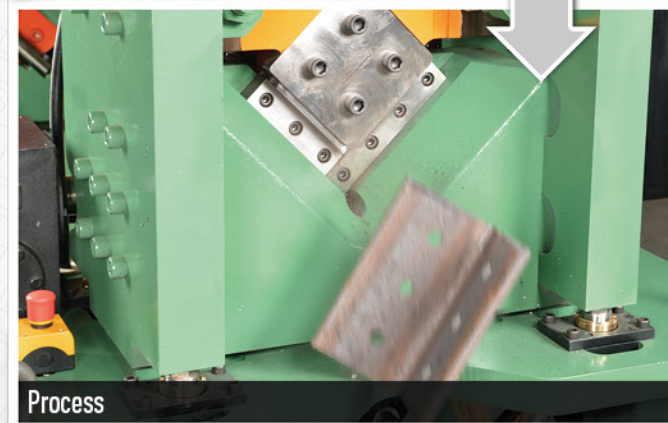
IMPORT	Tekla API / DSTV / DSTV+ iDSTV / iDSTV+ / Peddimat
MODIFY / INSPECT / CREATE	3D Module
EXPORT	Post Processor / DSTV / DSTV+ / iDSTV+ / Peddimat



Design and Export



Program for Production



Process



Fabricate

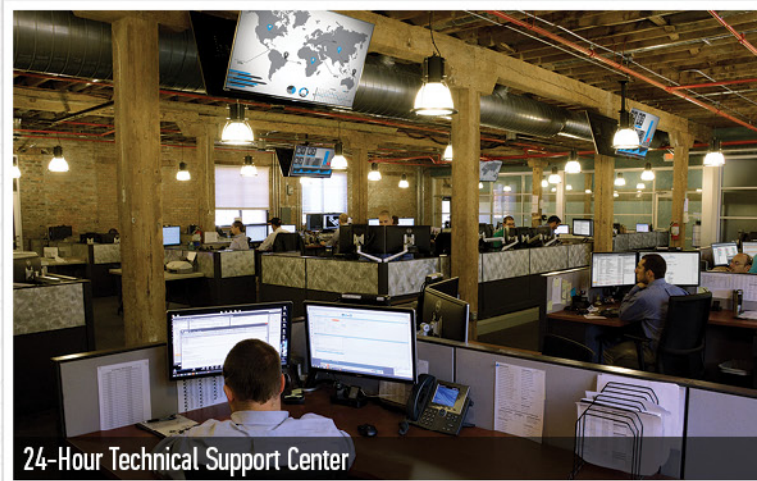


# The Best Support in the Industry

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

PED112818