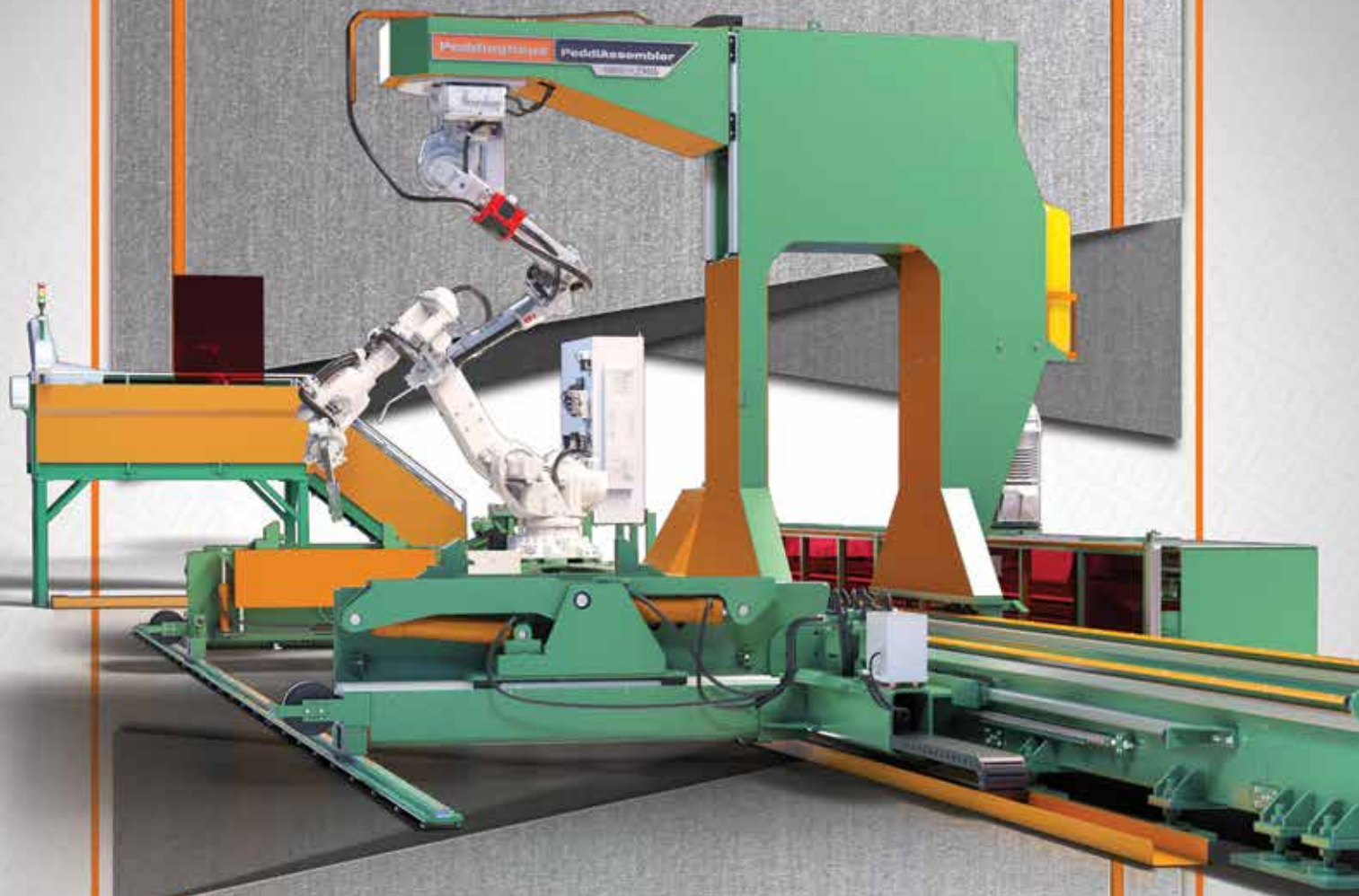


Peddinghaus

PeddiAssembler

POWERED BY ZEMAN

ROBOTIC BEAM ASSEMBLER



A Letter from the CEO



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 PeddiAssembler – Revolutionary Robotic Steel Beam Assembly.

My relationships with fabricators like yourself have given me wonderful insight into the challenges fabrication shops face on a daily basis. Skilled labor is hard to find and even more difficult to keep. Life changes, economic pressures and global markets create challenges which prevent fabricators from finishing jobs effectively and on time. The PeddiAssembler, powered by Zeman, is the tacking and welding solution! Use this machine to place all welded connection plates with unrivaled accuracy and remove human error with laser precision. Run by a single operator, the PeddiAssembler excels in repeatability and reliability.

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 PeddiAssembler. 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 for a “video test drive” and additional technical details on the PeddiAssembler. 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.

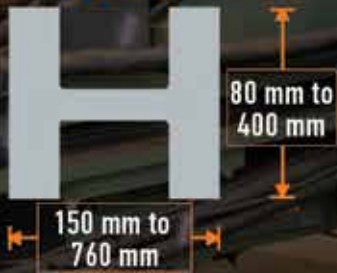
Carl G. (Anton) Peddinghaus | Chief Executive Officer | Peddinghaus Corporation

Ideal for Processing Structural Steel in an Array of Applications

Including:

- 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

BEAM



TUBE



CHANNEL



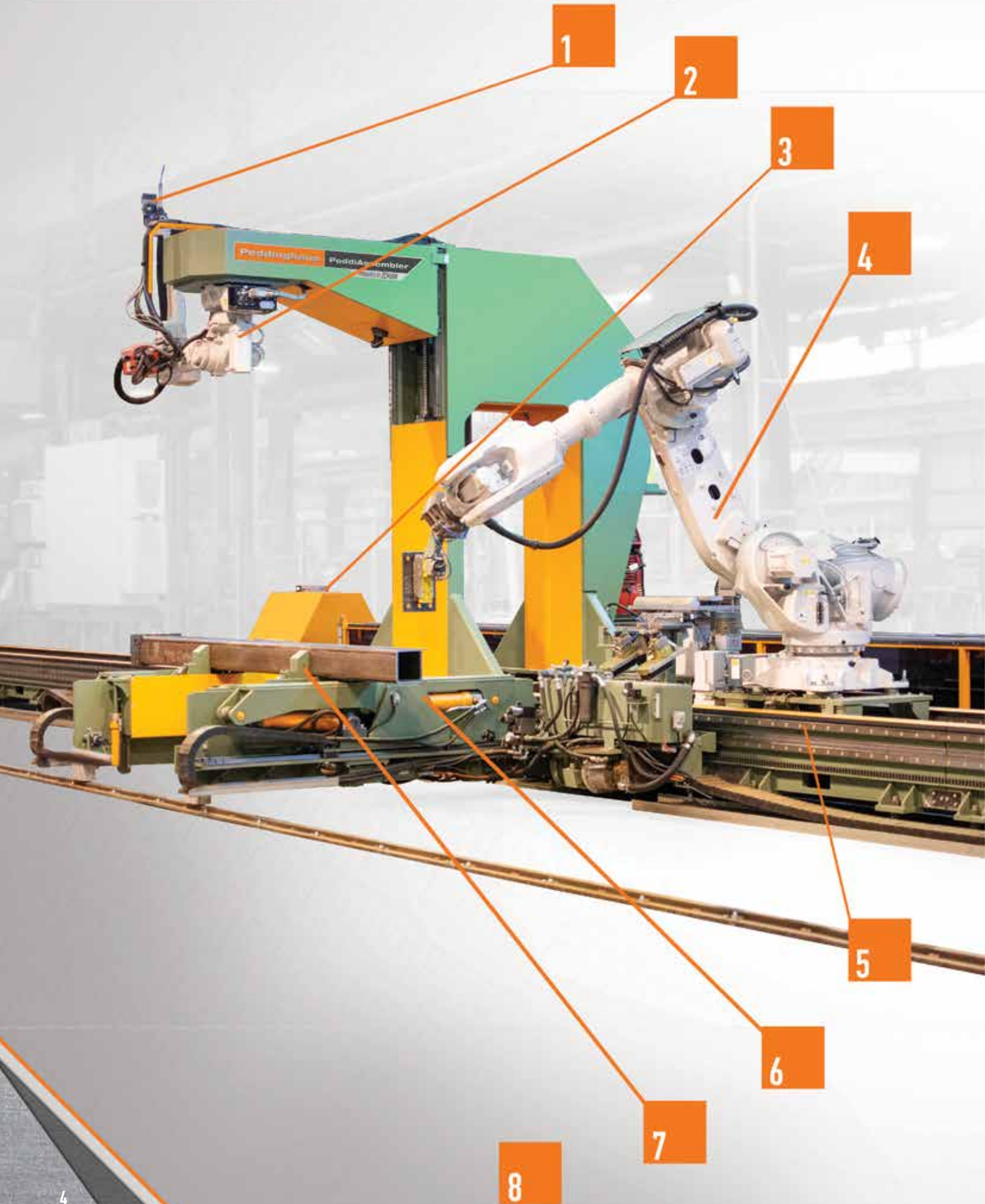
System Specifications

Welding Type	MAG
Welding Wire	G3Si1
Single-Layer Welding Seam	a3 - a6
Multi-Layer Welding Seam	a8 - a16
Overall Length	26280 mm
Machine Width	10300 mm
Machine Height	4500 mm
Material Processing	4 sides
Scan Speed	250 mm per second

Material Dimensions

Maximum Material Height	400 mm
Maximum Material Width	760 mm
Maximum Material Length	18000 mm
Maximum Material Weight	5000 kg
Maximum Part Height	250 mm
Maximum Part Width	250 mm
Maximum Part Length	1000 mm
Maximum Part Weight	200 kg

Fabrication Shop Supercharger





1 TORCH MOUNTED LASER MEASUREMENT

- Locate zero reference for entire process on profile
- Mounted laser measurement defines material dimensions
- Register part dimensions for best welding and tacking possible



2 TACK & MULTI-PASS WELD ROBOT

- Fully automated beam assembly and welding
- Perfect tacking and welding with multi-pass options up to A16
- Two robots working together as one



3 PARTS SCANNING UNIT

- Scan, measure and record all parts to be applied to the beam
- Each scan simultaneously checks with 3D model from ProFit software
- Completely autonomous



4 PARTS ROBOT

- Parts oriented to their exact weld location
- Maximum part weight of 200 kg
- Multiple magnet options for different size parts



5 SINGLE RAIL DESIGN

- Both the welding robot and the magnetic robot move on the same track
- Maintains a minimum machine footprint
- Allow open access to material by fork truck



6 INTEGRATED PROFILE TURNING DEVICE

- Rotate beams up to 360° for maximum processing
- Automatic rotation for continuous production
- Easily load an unload beams with a fork truck



7 PROFILE CLAMPING UNITS

- Secure profiles for tacking and welding
- Process up to 18000 mm stock lengths
- Maximum profile weight of 5000 kg



8 PEDDIASSEMBLER CONTROL

- Fully integrated Siemens control
- ProFit software for processing and editing programs



10 TON SAFETY FIRST

Peddinghaus PeddiAssembler
POWERED BY ZEMAN

Modular Designs

Minimal Footprint

The PeddiAssembler achieves the smallest footprint possible by utilizing a unique single rail design. Both the magnetic robot and the welding robot operate on one rail system leaving the opposite side open for fast loading and unloading of materials with a fork truck. Utilize this machine as a standalone installation or as part of an existing system.

Speed Up Production with Robotics

Tack and weld options on the PeddiAssembler allow fabricators to stay more nimble with each future project. Bottlenecks at the welding process can be alleviated with the tacking function of this robotic beam assembler. Give welders a time boost by getting the most costly tasks finished prior to the weld stand operations. Accomplish the work of 5 fitters per shift.

Free Up Crane Usage

The key to production is to only use shop cranes when absolutely necessary. Each time a piece of material is picked up and rotated with a crane a business can lose money. The PeddiAssembler makes loading and unloading with fork trucks seamless in the shop flow. Material continuously moves through a shop and on to the job site.

Utilize the Best Shop Production

The PeddiAssembler is the next evolution in structural steel fabrication. With its ability to accurately scan parts, the machine's software knows the exact orientation of each part. The PeddiAssembler maintains +/- 1 mm accuracy over a 18000 mm profile and is a true innovation for today's structural steel fabricators.

The Next Phase in Production

Which process should a shop hone in on and redefine? With this robotic steel beam assembler, the redefinition is complete. A complete hands-off tacking and welding machine means that trucks leaving the factory are loaded up more often than before. The PeddiAssembler fits and tacks pieces at 1.5 minutes per part. Job sites have less fitting errors to adjust and deadlines are more achievable.



OLD WAY - Pulling Tape and Hand Layouts



OLD WAY - Manual Tacking and Welding



NEW WAY - Part Scanning



NEW WAY - Robotic Tack or Weld



User Friendly Software

ProFit Makes it Easy

The PeddiAssembler is outfitted with Zeman's ProFit software run on the Siemens control. This cutting edge technology converts CAD file information to the machine processes with ease. The software bridges the gap and aids in helping operators determine the best process for the current material that is tacked or welded.

A Better Work Flow

The simple navigation of ProFit allows operators at any skill level to program and run the PeddiAssembler after brief training. The software automatically loads the last program upon initiation which speeds up time spent on projects. Once the file is imported from the CAD program or created within ProFit, the software is ready to aid the operator every step of the way.

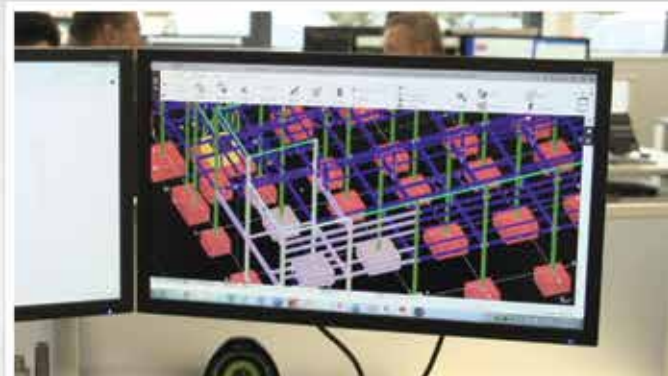
Where ProFit excels is while the PeddiAssembler is completing its current beam, the operator can make edits to the next program if necessary. This is done without interrupting the machines current process, maintaining excellent streamlining.

Setting the Options

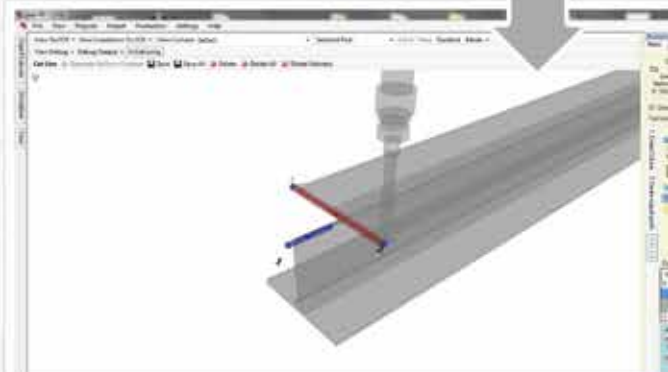
The ingenuity of ProFit comes from its ability to "fill in the blanks" for the operator. Once a program is selected, the software will suggest certain actions like tacking and welding locations to speed up the programming process. It is up to the operator to either accept these suggestions or edit them to their desired specifications. The operator is always in full control of the machine.

More Control

When the operator gets into the specific functions of the magnet, tacking and welding, ProFit works hand in hand to not only visualize the process in 3D, but streamline edits. Operators can adjust every movement, measurement and grip position when it comes to the magnetic functions. ProFit will take the process even further by providing the best tacking positions. The operator can then select which ones are truly needed and discard the rest. Full control of weld locations and weld thickness with the click of the mouse helps the PeddiAssembler crush production timelines.



Download DSTV Files Directly from BIM Software



Program or Make Edits in ProFit



Process Each Profile Efficiently



Load Trucks for the Job Site



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.

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.



PeddiUniversity Training Center

Peddinghaus

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

PED080320