

THE **ADVANTAGE** MULTI SPINDLE DRILL LINE



**PCD-1100/3B**

B I G G E R • F A S T E R • S T R O N G E R



**Peddinghaus**





## Dear Industry Partner,

### 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 Advantage Structural Drilling Machine – More Than Just a Machine.

Peddinghaus has shaped today's vision of the drill line with industry firsts such as the BDL and TDK series of equipment. With the introduction of the Advantage, Peddinghaus combined time tested technology with cutting edge innovation to accommodate requests from fabricators in all corners of the globe. This combined with Peddinghaus' renowned build quality and mechanical design provide the ultimate combination of agility and strength.

If speed is what you need, look no further. The Advantage drill line from Peddinghaus is capable of processing up to 50-75 tons of structural steel in a typical 40 hour work week. If versatility is what you require, the ability to drill and scribe might capture your attention.

I invite you to take a moment to learn what this machine has done for Peddinghaus customers in all corners of the world. I think you will be impressed with what you discover.

### 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 Advantage. 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.

Carl 'Anton' Peddinghaus

**Carl "Anton" Peddinghaus**  
Chief Executive Officer - Peddinghaus Corporation





**IDEAL FOR PROCESSING  
STRUCTURAL STEEL IN AN ARRAY  
OF INDUSTRIES INCLUDING:**

- Steel Building Components  
(floor beams, columns, etc.)
- Joist Components
- Sign Structure Components
- Truss Components
- Girder Components
- Mining Equipment Components
- Aggregate Handling Components



# ADVANTAGE



DRILL | ROLLER FEED | SCRIBE | STAMP | POP MARK

## Technical Specifications

Maximum Profile Width	1100 mm
Minimum Profile Width	76 mm
Maximum Profile Height	460 mm
Minimum Profile Height	19 mm
Number of Spindles	3
Spindle Power	10 kW
Drill Tooling Type	#4 Morse Taper
Maximum Hole Size	40 mm

# MULTIPLE ANSWERS TO YOUR PROBLEMS

## 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



## OPTIONAL SIGNOMAT PART STAMPING

- 36 station (number / letter) part marking press
- Marks at a rate of 1 character per second



## ROLLER MEASUREMENT

- Peddinghaus Roller Measurement
- Continuous feed with no stop in production



## POWERFUL DRILLING

- Multi-spindle drilling with 3 independent drills
- Smart spindle drilling ensures rapid approach and retraction for the most efficient drilling possible







**THROUGH THE TOOL MINIMUM QUANTITY LUBRICATION SYSTEM**

- 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.)

**SIEMENS PERFORMANCE ELECTRONICS**

- Siemens 840Di Control
- Utilizes a Windows® PC interface

**SPINDLE MOTOR**

- Powerful 10 kW motor for rugged drilling

# TANDEM SOLUTIONS

## PROCESS IN TANDEM WITH A SAW

Peddinghaus Beam Drilling Machines are capable of automatic or semi-automatic operation with an array of band sawing solutions. Whether using a new saw that Peddinghaus offers, or an existing saw that is already installed, the Peddinghaus beam drill line can easily accommodate any shop.

Integration Options:

- In Tandem with Miter Saw
- In Tandem with Straight Cut Saw
- In Tandem with Existing Saw (Peddinghaus, or other Manufacturers)

Ideal sawing machines to integrate with the PCD-1100/3B include, the DG-1100 double miter band saw, and also the 1250-510 straight cut saw.

## SPLIT APART FROM A SAW

If you are looking for maximum throughput, saw tandem systems may not fit your production. Splitting apart a drill and saw system enables each machine to run continuously, minimizing wait time between the different automated processes.

## ACCUMEASURE SYSTEM

Saw measurement options are available via the Peddinghaus AccuMeasure Roller Feed measurement system. The AccuMeasure allows for complete handling versatility, while maintaining a streamlined CNC solution. Available for all Peddinghaus automatic band saws, the AccuMeasure is the ideal complement to a complete Peddinghaus system.









### MODULAR MACHINE DESIGN

Grow your shop in stages with a modular Peddinghaus CNC system. The Advantage drill line is designed to be a building block to the future of fabrication in any facility. Start in stages and invest in CNC equipment when you're ready. Peddinghaus material handling combined with Siemens technology allows for complete system integration between drills, band saws and copers.

### MULTI-SPINDLE APPROACH TO STRUCTURAL DRILLING

Tackle large projects with confidence using the multi-spindle drilling operations of the Peddinghaus Advantage. Multi-spindle drilling allows for the simultaneous processing of multiple surfaces, thus increasing a company's capable throughput and tonnage capabilities. Process profiles up to 1100 mm wide in a fraction of the time involved with manual or single spindle operations.

### SIGNOSCRIPT CARBIDE PART MARKING

SignoScript carbide part marking allows clear, concise part designation for a wide array of shapes, depths and orientations; perfect for painting or galvanizing applications. Layout marking is also available from any of the three drill tools to expedite weld prep, and other processes.

### ROLLERFEED MATERIAL MEASUREMENT

Flexible, reliable and efficient material measurement is the backbone of a CNC drill line. Rollerfeed material measurement offers unparalleled accuracy while providing versatility for material handling options. Load and store material outside the building, transfer materials from either side of conveyor on the entry or exit side of the machine, and never wait for a carriage to return to a loading position using roller measurement from Peddinghaus

### SMART SPINDLE TECHNOLOGY

Eliminate the inefficient "drilling of air" when you use Peddinghaus Smart Spindle technology. Peddinghaus engineers pioneered this system that instantaneously senses material break-through notifying the machine of the moment a hole is completed and immediately advancing to the next hole in a pattern. Increase the amount of time that your drill is actually drilling material with Smart Spindle.

### SIEMENS PERFORMANCE ELECTRONICS

The powerful Siemens 840Di is a true CNC control that utilizes a familiar PC interface for simple operation. Peddinghaus and Siemens team up for solid performance and service reliability around the corner or around the world.



*Multi-Spindle Approach*

*Rollerfeed Measurement*



### PEDDINGHAUS' RAPTOR CAD/CAM PLATFORM

Raptor software from Peddinghaus is today's premier structural machine tool CAD/CAM platform. Equipped with versatile modules intended to import, design, and export part programs, Raptor is fully customizable for the unique needs of the individual fabricator.

### THE DSTV IMPORT MODULE

Raptor seamlessly integrates with popular Building Information Modeling (BIM) platforms capable of generating DSTV files using the DSTV Import Module. Commonly used BIM platforms include SDS/2 from Design Data, Tekla Structures, SteelOffice, Graitec and more.

### THE 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 into an intermediary file type.

By referencing part data within a Tekla BIM model, Raptor's Tekla API Module is capable of automatically generating scribe marks, and weld locations based on the model's original geometry. Using Raptor's Tekla API, Peddinghaus bridges the gap between design intent and final fabrication.

### THE 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 information. If part files need to be created, the intuitive design and user friendly interface of the 3D Module allows for powerful programming options.

### THE PEDDIMAT LEGACY EXPORT MODULE

The Peddimat Legacy Export Module provides users the opportunity to create Peddimat files using Raptor. This export option allows users to develop part programs for operation on legacy machines that do not have a Raptor post processor, or do not have an active license of Raptor present at the control.



PEDDINGHAUS SOFTWARE  
**LINKING DESIGN TO FABRICATION**



Design and Export



Program for Production



Process and Fabricate





# ADVANTAGE *USER TESTIMONIALS*

## D&A FABRICATION - Urbana, Iowa - USA



"With the new machine we can now do what would have taken 5 days in one eight hour shift... We never dreamed we would be bidding on multi-million dollar projects but with our PCD-1100/38 now we can.

The machine never takes a sick day and is always accurate. We can put a single operator on it and receive precise drilling every time."

- Dan Wacha, Owner

## OWEN STEEL, INC. - Columbia, South Carolina - USA



"Peddinghaus makes machines more suited to our environment. Peddinghaus builds machines that are for heavy structural steel. That's what we need here and that's why we have Peddinghaus in our shop."

-Brad Arneson, Production Manager

## SAMUEL GROSSI & SONS - Bensalem, Pennsylvania - USA



"There is no steel job or project out there that we can not do. Peddinghaus is a good partner – and team mate of Grossi & Sons"

-Bob Grossi, P.E. President

## ALPHA STEELFAB - Dallas, Texas - USA



"When we installed our PCD-1100/38 drill line we had the chance to move our manual drilling team into other jobs such as assembly, or fitting/welding. Beyond the efficiency we had gained, our accuracy was increased substantially. This is important to us as our reputation is for being on target and on time. Our clients expect nothing but the best from us. We expect the same from the machines we operate"

-Britt Fletcher, Vice President of Operations



**SMITH IRON WORKS -**  
Lyerly, Georgia - USA



"The Peddinghaus equipment has served us well, the PCD 1100 has given us great flexibility and capacity – we can easily double our production from previous methods. This leads us in to whole new markets for us – Schools, churches, retail, medical, institutional, etc – we process all of them routinely through the shop now.

The Peddinghaus equipment works so well, that we were able to add a new bay to house the new PCD drill. If business continues to thrive, we may need to put another one..."

*-Jim Hicks, General Manager*

**FABARC STEEL SUPPLY, INC. -**  
Oxford, Alabama - USA

**CD 1100**



"We tackle huge fabrications projects with confidence because our Peddinghaus machines are always running to meet the tightest of deadlines. We get a job from our detailers, download it and start fabricating. The whole process is fast and efficient."

*-Steve Vinyard, President*





# ON CALL. ON DUTY. ALL THE TIME.

24 Hour Service and Support from Peddinghaus

## 24 HOUR CUSTOMER SERVICE

The Peddinghaus state-of-the-art Service Center continues to grow to serve you even better - and is available 24 hours a day!

- 50+ trained traveling field service technicians for on site assistance
- 20+ knowledgeable telephone technicians
- Complete training facility for operators and programmers

## WEBCAM TROUBLESHOOTING

Each of Peddinghaus' machines are shipped with a simple to use WebCam and software. Peddinghaus technicians can view mechanical questions from anywhere in the globe using this latest in customer service technology.

## MODERN REMOTE ASSISTANCE

Peddinghaus' 24 hour tech support center is equipped with modern remote assistance technology. This allows Peddinghaus technicians to remotely diagnose machine questions or issues from anywhere on the globe. With the flexibility of the powerful Siemens control, and modern remote internet software, Peddinghaus technicians can view the control screen of a machine in question with ease. Nearly 90% of service issues can be solved without the need for a service visit using this technology.

**24  
HOURS  
HELP  
DESK**



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**SEE THE ADVANTAGE  
ONLINE HERE!!!**



Download a QR Code Scanner App for your smartphone and experience Peddinghaus in the palm of your hand!!!

