



AVENGER

CNC BEAM DRILL LINE

for beams, angle, flat bar, square tube and more

Built exclusively for Ocean Machinery by Peddinghaus

A NEW WAVE OF PROFITABILITY...

OCEAN DOES IT AGAIN!

- ✓ 1/2 the Floor Space
- ✓ 1/2 the Price
- ✓ 2X the Versatility



INCREDIBLY VERSATILE

This amazing drill line can process a wide variety of steel profiles from the lightest steel sections all the way up to jumbo beams with ease. The Avenger processes:

- Beams
- Angles
- Channel
- Base Plates
- Flat Bars
- Square and Rectangular Tubes
- Round Tubes and Pipe
- Tapered Beams and Unequal Sections
- Welded Build-Up Sections and Assemblies
- Pre-Cambered Beams

THE SOLUTION TO YOUR PROBLEM

Consider the cost of fabrication in your shop. If you currently layout steel manually, you are needlessly paying for non-value-added effort. Even the most conscientious worker can produce very few holes per man-hour with a magnetic drill or portable hydraulic punch. On the other hand, sophisticated multispindle machines can make short work of steel beams, but unless you're a very high volume fabricator their cost is prohibitive and the space they occupy is precious.



■ ACCURATE LASER DETECTS END OF BEAM

A NEW WAY TO INCREASE PROFITS

Now, with the introduction of the Ocean Avenger, a unique CNC drill line designed and built in the USA by Peddinghaus, you have a cost effective way to manage your output.

Since introducing the Ocean Avenger, hundreds of structural fabricators now enjoy the benefits of automated production: lower labor costs, increased capabilities and improved quality.



■ UNIST COOLANT SYSTEM

AVENGER

TOTAL ACCEPTANCE

Because of its extreme versatility the Avenger has been accepted into many different industries including:

- Structural and miscellaneous steel fabricators
- Residential house beam fabricators
- Truck, RV and trailer body builders
- Industrial, refinery, turbine and heat exchanger manufacturers
- Rack and shelving manufacturers
- Railway and highway bridge builders
- Stadium, bleacher and billboard manufacturers
- Conveyor manufacturers
- And many more

ULTIMATE PERFORMANCE DESIGN

The Ocean Avenger design embraces Ultimate Performance as a key philosophy. The naked design (minimal sheet metal) reduces the inertia on all moving parts and has resulted in a drill line with unheard of performance. Hole-to-hole time is less than 10 seconds including referencing and clamping*. The acceleration and deceleration is up to 400% faster than competitive machines.

* 13/16" drill diameter through 3/8" steel 55,000 psi

EXCEPTIONAL ACCURACY

The positioning of the drill on the X-axis is accomplished by a highly accurate rack and pinion measuring system.

Y-axis positioning is via fast string encoders and eliminates the need for slow ball screw systems.

This superbly accurate and extremely fast measuring system provides hole-to-hole accuracy better than 1/32" and translates into faster erection in the field, eliminating back charges for holes drilled incorrectly.

INSTALLATION & TRAINING

The machine installation is supervised by factory-trained personnel. Your drill line will be operational and your team expertly trained in less than eight days!

The Avenger is very simple to operate and most of our operators were the men doing manual layout on the floor. No prior computer knowledge is necessary, and full training is provided at the time of the installation. Our intensive operator training program ensures a smooth transition to automated beam fabrication.



■ HEAVY DUTY HYDRAULIC SPINDLE MOTOR



■ EASY TO USE CONTROL PANEL



■ Y-AXIS AND CLAMP ENCODERS



■ SAFETY LIGHT GUARDS

UNBEATABLE TECH SUPPORT

■ To service our global clientele, Peddinghaus proudly provides our customers with 24 hour technical support. Peddinghaus' inside service staff have years of experience in assembly and in factory checkout which provides them with hands-on experience with all machines.

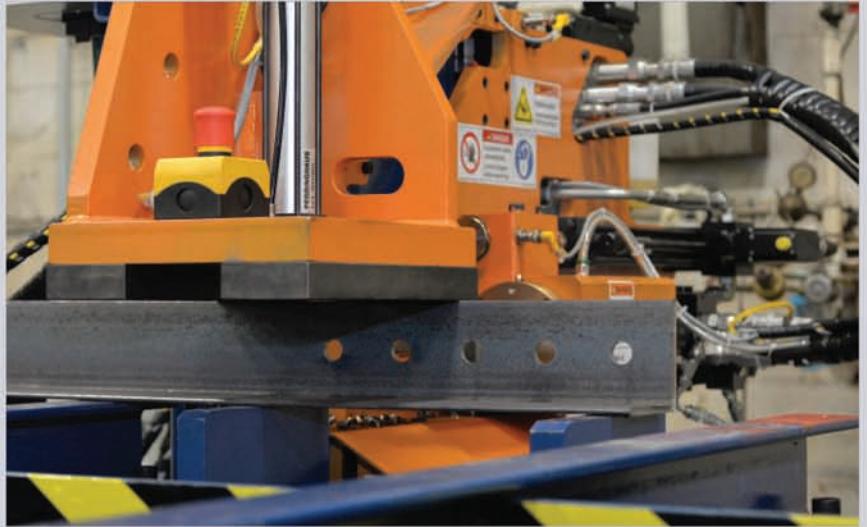
■ Peddinghaus' expansive network of 50+ field service personnel are stationed throughout North and South America, Europe, Africa, Asia, Russia, the Middle East and Australia/New Zealand.

■ The Avenger features Remote Diagnostic Capability whereby the service department is able to remotely dial in to the machine and run a complete status check, making faultfinding simple and fast.

■ The Avenger is shipped with a high definition web camera and software; allowing Peddinghaus service employees to directly experience the activity at the customer's installation without the need to leave the office.

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SPECIFICATIONS



CNC Beam Drill Line Specs

Maximum Profile Size	60' x 40" (18.3m x 1000mm) up to 730 lb / ft (1088kg / m)
Minimum Drill Diameter	5/16" (8mm)
Maximum Drill Diameter	1-9/16" (40mm)
Maximum Thickness	Limited only by drill length - up to 10" (250mm)
Maximum Speed X-Axis	100 ft per min. (30.5m per min.)
Maximum Speed Y-Axis	120 ft per min. (36m per min.)
Spindle Power	13.5 hp (10KW)
Drilling Feed Rate	2" - 10" per min. (50 - 254mm) infinitely variable
Spindle Stroke	13" (330mm) max.
Total Power	20 HP (14.9 KW)
Power Supply	208 to 575V, 3-ph, 60 Hz (50 Hz available)
Average Output	200 to 400 holes / hr depending on the profile drilled
Manufacturer	Peddinghaus Corporation, Bradley IL, USA

We reserve the right to modify features and specifications at any time.



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