

# LIBERATOR



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## SPECIFICATIONS



CNC Beam Coping Machine Specs

Cutting Capabilities	Maximum Profile Size	44" x 28" (1100mm x 700mm)
	Maximum Plate Width	48" (1250mm)
	Flange Bevels	+/- 45°
	Web Bevels	+/- 45° (external only)
	Max. Material Thickness	6" (150mm)
Travel Speed	Traverse Speed	100 - 400 in/min (2.5 - 10mm/min)
	Cutting Speed	7 - 30 in/min (170mm - 750mm/min)
Accuracy	Repeatability of X, Y & Z	+/- 0.001" (0.025mm)
	Cutting With Oxy-Fuel	+/- 0.0625" (1.5mm)
Clamping Capacity	0" - 48" (0mm - 1250mm)	1100 lb (500kg) force @ 100 psi (7 bars)
Material Pass Line	Adjustable on Lower Frame	24" - 31" (600mm - 800mm)
Power Supply	220 V, 1-ph, 50/60 Hz	27.5 A, 6kVA
Overall Dimensions	Length	124" (3150mm)
	Width	96" (2440mm)
	Height	131.5" (3340mm)
Weight	5200 lb (2360kg)	
Manufacturer	Peddinghaus Corporation, Bradley IL, USA	

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



# LIBERATOR

## CNC BEAM COPING MACHINE

for cutting and coping beams and all steel profiles  
Built exclusively for Ocean Machinery by Peddinghaus

# THE SOLUTION TO YOUR PROBLEM...

## THE WORLD'S FASTEST SELLING BEAM COPER!

- ✓ Affordable
- ✓ Copes & cuts all steel profiles
- ✓ Built by Peddinghaus



## 1/3 THE PRICE

The Ocean Liberator is the most economical beam and profile coping machine in the world, and costs less than one-third the price of comparable coping machines.

## RANGE OF PROFILES

This amazing profile coping line can process a wide variety of steel profiles from the lightest steel sections all the way up to heavy jumbo columns with ease. The Liberator will process:

- Beams of any size up to 44" (1100mm)
- Angles
- Channels
- Square and rectangular tubes
- Flat plates up to 48" wide (1200mm) and up to 6" thick (150mm)



## OUTSTANDING PERFORMANCE

Ocean Machinery and Peddinghaus have collaborated to produce the Ocean Liberator - a single torch CNC beam coping machine that removes the need for manually laying out your copes, and ensures that copes are done efficiently and accurately.

The Liberator performs copes significantly faster than copes done manually and very little grinding is required once the cope is done, further reducing non-value-added labor costs.

The Ocean Liberator beam coping machine has five axes of movement and will cut anything a human can do with a handheld torch.

The cutting speed can easily be adjusted on-the-fly by the operator depending on how the cut is progressing. The operator can adjust for material thickness, grade of material, torch condition and cutting gases used.

## TOTAL INDUSTRY ACCEPTANCE

The Ocean Liberator can be found in a wide range of different industries, including structural and miscellaneous steel fabricators, truck, RV and trailer body builders, industrial, refinery, turbine and heat exchange manufacturers, railway and highway bridge builders, bleacher and billboard manufacturers, and many more.

## EXCEPTIONAL ACCURACY

The positioning of the torch head is accomplished by highly accurate SIEMENS CNC servo motors and precision controllers, providing a cutting tolerance of 1/16" (1.5mm). This means faster field erection and reduction of back charges.

## INSTALLATION & TRAINING

The machine installation is supervised by factory-trained personnel. Your beam coping machine will be operational and your team expertly trained in just a few days!

The Liberator is very simple to operate and most of our operators were 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.

## SIMPLE ROBUST CONSTRUCTION

The Liberator comprises a sturdily built welded steel framework that supports the suspended rack and pinion drives.

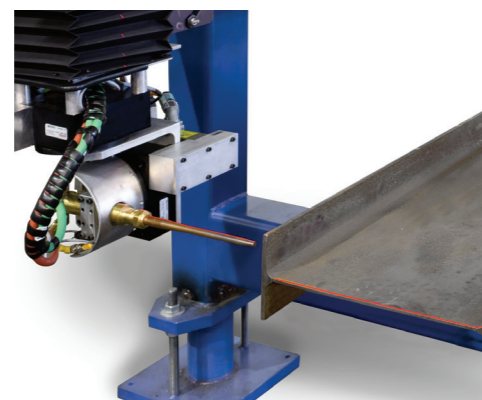
It features a projected laser line for setting the zero reference and a pneumatically actuated set of clamps that hold the profile during cutting.

A fast moving and highly accurate 5-axis single torch head does all the cutting. Five axes allow the torch to articulate into almost any position -- If you can draw it, the Liberator can cut it!

## INTEGRATION WITH DETAIL SOFTWARE

The Ocean Liberator CNC beam coper integrates with all major steel detailing programs.

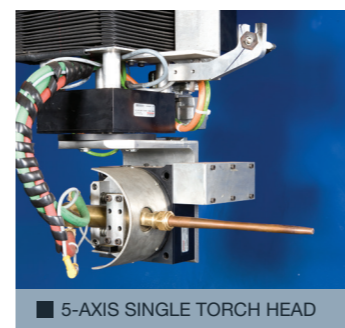
For fabricators using any 3-D model detailing programs such as Tekla Structures, SDS/2, StruMis, ProSteel 3-D, etc, the operator merely imports the part directly from the model.



■ LASER DETECTS ZERO REFERENCE



■ EASY-TO-OPERATE MACHINE CONSOLE

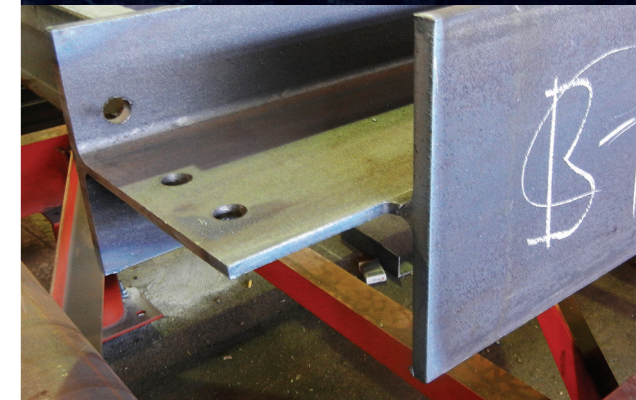


■ 5-AXIS SINGLE TORCH HEAD



■ SIMPLE SIEMENS REMOTE

# LIBERATOR



■ ACCURATE COPING SIGNIFICANTLY REDUCES GRINDING



■ SIEMENS SERVO CONTROLLERS

## 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 Liberator 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 Liberator 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.