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CLIPPER

CNC ANGLE LINE

FOR AUTOMATIC PROCESSING OF CLIP ANGLES UP TO 6 X 6 X 5/8"

Built & Serviced by Peddinghaus Corporation, U.S.A.

Ocean Machinery, Inc.
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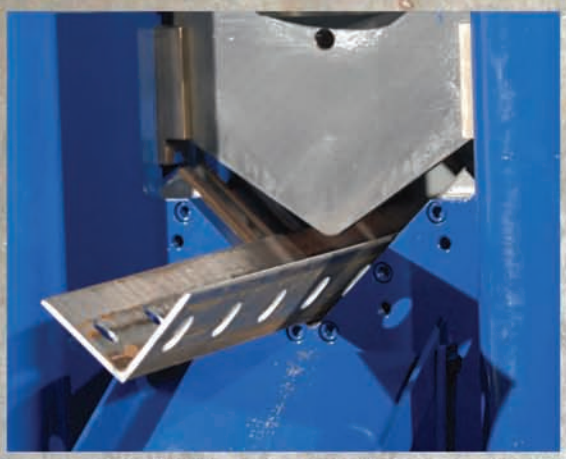
THE SOLUTION TO YOUR PROBLEM

The Old Way

Many fabricators are still producing clip angles the old expensive way... laying them out by hand or using a template, taking the angle to an ironworker punching the holes and slots in each leg shearing the clips to length.

And while many fabricators wanted a CNC angle line to speed up the process and reduce the costs, they seldom could afford to buy one.

Manual production of clip angles is expensive, inaccurate & time consuming



CNC Clip Angle Production – FAST ACCURATE and EFFICIENT

The New Way

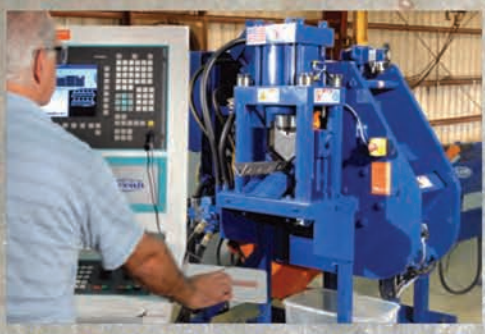
Ocean Machinery has created the world's most compact fully-automatic CNC angle line, using a unique approach. This has resulted in the most affordable machine on the market today.

Ocean Machinery has been instrumental in bringing unique solutions to the small to medium steel fabricators throughout the world. Our clients range from structural steel fabricators to truck and trailer manufacturers, who now enjoy the benefits of automated production: lower labor costs, increased capabilities and profits, and they enjoy happier clients through improved quality and dependable delivery.

Ride the wave of profitabilitythat the Ocean CLIPPER brings.

Affordable

The Ocean CLIPPER is the most economical CNC clip angle line in the world. Similar machines are out of the reach of most small to medium fabricators, but the Ocean CLIPPER is extremely affordable. The fabricator only needs to run his machine a couple of hours each day and it will pay for itself in less than 12 months.



Ocean CLIPPER – COMPACT and AFFORDABLE

Compact Size

The Ocean CLIPPER, thanks to its unique design is absolutely the most compact CNC angle line available, thus freeing up valuable floor space.

Ultimate Performance Design

The Ocean CLIPPER design embraces Ultimate Performance as a core philosophy. In typical Peddinghaus fashion, the machine is exceptionally robust and built to last. All load bearing members are precision cut from solid 2" steel plate, making the machine absolutely rigid and accurate. The naked design (minimal sheet metal) makes the machine easy to operate and maintain without the need to open sheet metal doors and reset cabinet door trip switches.

Unique Design Approach

Since the Ocean Clipper is so much more compact than other designs, it can be used in a host of fabricating environments that would otherwise not be able to consider a traditional CNC angle line.

By embracing a completely unique approach of using a drill spindle in combination with the traditional punch, the engineers managed to create this incredibly compact machine that does not need to jog the material forward to create in-line holes. The punch and the drill spindle are in-line and are not offset like the punches are on traditional machines.

By reducing the size of the machine, significant savings were made in material costs, resulting in the very affordable price. But there is still a further benefit. By making the machine so compact, the "drop" (the wasted piece of angle that cannot be processed) is now only 8", making a welding station totally unnecessary.

So the end result is a highly accurate, very efficient and very affordable CNC angle line.

CNC fabricated buildings go together faster saving money on erection and back charges

Exceptional Accuracy

The linear measurement of the material (X Axis) is accomplished by a fast and highly accurate rack and pinion measuring system with closed loop control incorporating automatic backlash compensation. Accuracy of 1/32" or better translates into faster erection in the field, eliminating back charges for badly produced parts.

Robust and Simple CNC Control

The Clipper uses the same rugged and dependable Siemens 840Di CNC controller that is used on the Ocean AVENGER CNC Drill Line and on most Peddinghaus CNC machines.

Easy Programming and Importing of CNC Files

The Peddimat programming software is very intuitive and simple to learn, and operators without prior computer experience have been trained to successfully operate this machine in only a few hours. The angle line can be programmed manually at the machine, or off-line at your desktop computer.

The Ocean CLIPPER supports the DSTV file format used throughout the steel fabricating world. If your steel detailer is providing you with drawings done in almost any 3-D steel-detailing software that supports this format, the Ocean CLIPPER will be able to import those files and produce perfect clip angles right out the box.

The Clipper can be hardwired to your local network for easy access and importing of your detailing files.

Simple to operate controls make processing simple and fast

Safety

The Ocean CLIPPER Angle Line is designed to exceed the most exacting worldwide safety requirements. Light curtains ensure that operators are away from all moving components, and that the machine will stop in the event of an obstruction. Manual emergency-stop buttons are conveniently located on the machine.

Installation and Training

The installation of your Ocean CLIPPER takes less than 3 days and is supervised by Peddinghaus's factory-trained personnel. Our intensive operator-training program ensures a smooth transition to automated CNC clip angle production.

Superb Warranty & Tech Support

The CLIPPER is manufactured and supported by PEDDINGHAUS USA, providing you with the highest level of service in the industry. The Ocean CLIPPER features remote diagnostic capability and is supplied with a 12 months on-site warranty on parts and labor.

The CLIPPER utilizes off-the-shelf freely available parts. The Parts Call Center is open 7 am-5 pm CST, and most parts can be delivered overnight maximizing your processing time.

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SPECIFICATIONS

ANGLE SIZES	
Maximum Angle Size	6 x 6 x 5/8" (150 x 150 x 15mm)
Minimum Angle Size	1-1/2 x 1-1/2 x 1/8" (40 x 40 x 4mm)
DRILL ONE LEG – ROUND HOLE ONLY	
Minimum Hole Diameter	5/16" (8mm)
Maximum Hole Diameter	1-9/16" (40mm)
Minimum Drill Gauge	0.5" (12mm)
Maximum Drill Gauge	5.5" (140mm)
PUNCH ONE LEG – SLOTS, HOLES, SHAPES ETC,	
Punching Tonnage	75 Tons US (68 Metric Tons)
Maximum Slot Size	1-1/4"(30mm) - Standard (270)
Minimum Gauges	Using #272 punches, #271 dies 11/16" plus leg thickness for 1 1/2" x 1 1/2" through 2" x 2" angle 1-3/16" plus leg thickness for 2 1/2" x 2 1/2" angle 1-1/4" plus leg thickness for 3" through 6" angle sizes
SHEAR – CUT TO LENGTH	
Shear Tonnage	100 Tons US (91 Metric Tons)
Minimum Drop	8.125" (206mm)
Shear Cycle Time	5 seconds
Slug Size	1/2" (12 mm)
MEASUREMENT	
In-feed Speed (X Axis)	61 FPM (18.5 meters/min.) maximum
Maximum "X" Direction Stroke	50" (1270mm)
GENERAL	
Machine Pass Line	45.00" (1143mm)
Weight	Punch Frame/ Shear Assembly 5000 Lbs (2258 kg) X-Axis Assembly 900 Lbs (408 kg) Power Unit for In-feed Sections 300 Lbs (136 kg) each
In-feed Length	20ft (6m) included standard with machine. Table extensions available from Ocean.
Power Requirements	480V 3Ph 45KVA (208-575 with additional transformer)
Shop Air	80-125 PSI

In line with OCEAN'S and PEDDINGHAUS'S policy of on-going product improvement we reserve the right to modify features and specifications

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Dealer: