



# PLATE PROCESSING SYSTEMS



**FOR  
FLAT BAR & PLATE  
FABRICATION**



*The economical solution for automatic production of plate components that require punching, drilling, thermal cutting, marking, contouring, and shearing to length.*

# YESTERDAY'S FABRICATION...

## Reduce Manual

*At current shop rates, how much labor can you save by eliminating ten of these twelve steps?*



*Load*



*Adjust Torches*



*Ignite and Burn*



*Remove Scrap*



*Cut Scrap to Removable Length*



*Manually Remove Parts from Skeleton*



*Remove Remaining Parts*



*Remove Skeleton*



*Gather Parts*



*Layout, Fixture, Drill Hole*



*Deburr*



*Stack Finished Parts*

# Labor by 80%...the Peddinghaus Way

The innovative machine design from Peddinghaus delivers a finished piece in three steps: Load, Process, Unload



Load stock via fork truck outside the building.



Pass through a wall opening



Punch, drill, thermal cut via plasma or oxy/fuel, and mark in one operation.



Stack finished parts.

## Save Shop Floor Space by 60%



Typical burn table installations can occupy over 3000 square feet of shop floor space.



The Peddinghaus design occupies less than 600 square feet of shop floor space.

# PUNCHING & DRILLING SYSTEMS

## *Peddinghaus Has the Right Answer*



**Engineered for the toughest shop environment, the FPDB 2500/3 is a rugged workhorse combining 125 tons (112 metric tons) of punching power and multi-spindle drilling for accurate hole production.**

**Contoured parts are thermally cut via plasma or oxy/fuel, and a scribe type marking system provides legible part identification.**

**Plates up to 96" wide (2500 mm) with thickness varying from 1/4" (6 mm) to 3" (75 mm) can all be processed on this durable machine.**



*Peddinghaus smart spindle drill technology operates in perfect symmetry with thermal cutting and marking assemblies.*



*The proven 125 ton (112 metric tons) triple tool assembly accelerates parts production...adding to your bottom line.*

**The FDB-600/3 will fabricate plate from 1/4" (6 mm) to 2" (50 mm) thick and up to 24" (600 mm) wide and 20 feet (6 m) in length.**



*Spindle Drilling*



*Deslagging*



*Burning*



*Continuous throughput via Roller Feed technology.*

# for Every Plate Application Question

*Both the FPDB and FDB drills, thermally cuts, and identifies part components from stock plate:*

- **Up to 3" (75 mm) thick**
- **Up to 96" (2500 mm) wide**
- **Unlimited lengths**
- **Up to 20,000 lbs. (9000 kg)**



*Multiple spindle drilling, countersinking, and similar operations can be achieved.*



*The Signoscript Scribe Marking System employs a milling cutter for easy piece part identification to any height or depth.*



*A powerful Plasma unit delivers high speed, accurate contoured cuts.*



*The Oxy/Fuel torch delivers CNC accuracy on 3" (75 mm) thick plate.*

# PUNCHING SYSTEMS

## *Peddinghaus' In and Plasma Conto*



**The FPB 1800/3 delivers 177 tons (161 metric tons) of triple tool punching power which processes plate to 1-1/4" (32 mm) thick and 72" (1800 mm) wide. The**

**continuous material flow through design maximizes your productivity while minimizing shop floor space and assorted labor costs.**



**The triple gag punch head with hydraulic stripping permits up to three different hole diameters by program command without requiring any tool change time.**



**The patented Peddimat Roller Feed Drive and Measuring system powers the Peddinghaus unique continuous flow design. The dual datum assembly provides fast positioning from maximum to minimum thickness material.**



**The FPS 500/3 is the effective solution for pre-engineered builders and fabricators, as well as manufacturing applications. The proven Peddinghaus 177 ton (161 metric tons) triple tool punching system combined with a massive 400 ton (360 metric tons) hydraulic shear delivers accurate parts from 20" (508 mm) wide by 39.37' (12 m) stock lengths. Sections up to 1-1/4" (32 mm) thick can be processed.**

# Integration of Punching, Marking, Shearing Your Cutting Strengthens Your Bottom Line

**The FPB 500/3 is the ideal plasma plate punch when processing flat stock or plate 1-1/4" (32 mm) thick and up to 20" (508 mm) wide. Peddinghaus pioneered plasma punching for heavy plate with this versatile design. The FPB 500/3 is perfectly suited for the rail transportation, agriculture, and associated manufacturing industries.**



*The Compact Design of the FPB 500 not only saves shop space, but also saves time and money on both short and long production runs when purchasing raw flat stock.*



## Automated Material Handling Systems for Plate



*The FPB Loader was designed to handle plate up to 1-1/4" x 20" (32 x 508 mm) and from 6" (152 mm) up to 5' (1.5 m) wide. One material storage bay is standard, and additional bays can be added as needed. Material is lifted onto the conveyors using a series of vacuum cups placed along the length of the carriage.*

# CNC DETAIL PUNCH

## Cost Effective Hole Production

**The 110 ton CNC Detail Punch is a cost effective system from Peddinghaus... the leader in plate fabricating technology. For plate, angle and channel detail, the 110/20 single end punch with CNC gauging table will fabricate plate up to 1" (25 mm) thick.**



*CNC gauging table for X and Y axis positioning.*



*CNC control integrated with Peddimat Windows based programming system.*

**The Peddinghaus Anglemaster 823 provides punching and shearing ability for 12 x 1" (305 x 25 mm) plate, as well as 8 x 8 x 3/4" (200 x 200 x 20 mm) angle.**



*Combining the technologies for punching (130 tons/118 metric tons) and shearing (400 tons/363 metric tons) with an automated loading and unloading system saves not only labor, but material handling costs as well.*



# FABRIPUNCH F1170

## with CNC Accuracy and Repeatability

**For cost-efficient and precise plate and angle detail, the Fabripunch permits economical punching of plates and angles whether production requirements are for short or long runs. The Fabripunch has 170 tons (153 metric tons) of punching power with a 30" (762 mm) throat depth.**



*As an option, the Fabripunch can be supplied with a triple gag punch attachment to answer those applications requiring up to three different hole sizes.*



*The rugged hydraulic material clamps permit punching of most hole sizes at a standard minimum edge distance of 1-1/4" (32 mm) without concern for clamp interference.*



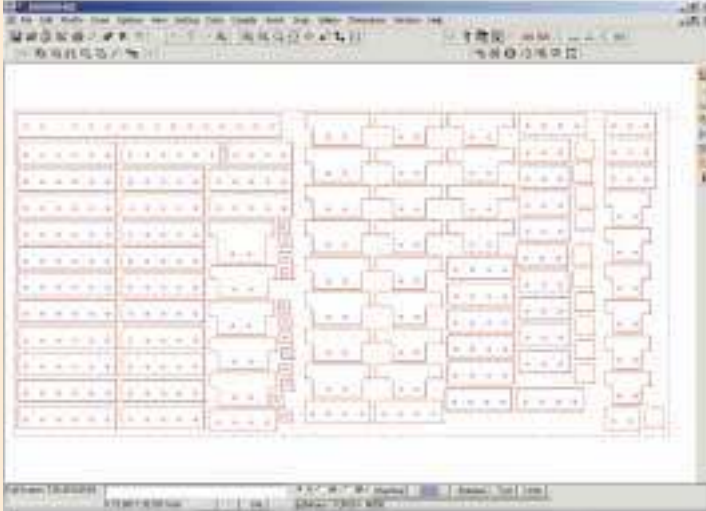
*The versatile material clamp design permits repositioning of plate lengths to minimize material handling.*

*Create finished identified piece parts.*

# SOFTWARE

## Proven Machine Productivity from the Leader in Heavy Plate Production

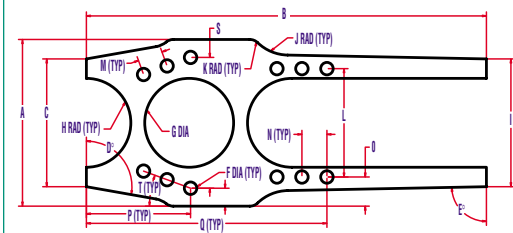
**Powerful software nesting programs decrease scrap and efficiently array parts.**



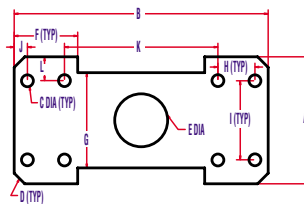
Continuous material flow, maximum material utilization, and consolidating multiple operations are vital when you're processing heavy plate. Peddinghaus' nesting software adds a new dimension to proficient plate processing.

**If the following parts fit your production, e-mail [plateproductivity@peddinghaus.com](mailto:plateproductivity@peddinghaus.com) for an accurate time study of the individual part component. Simply fill in the dimensional data – including radius – and forward to us for “instant justification.”**

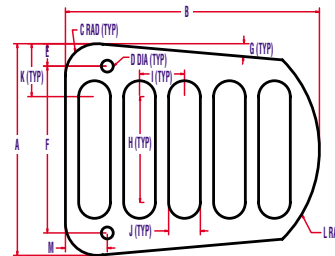
PED01



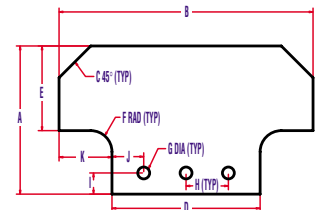
PED02



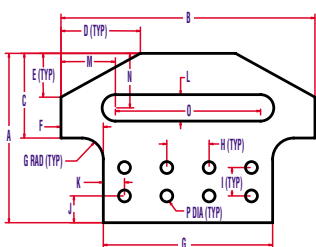
PED03



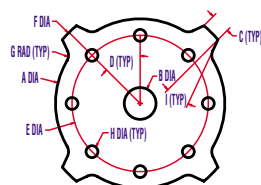
PED04



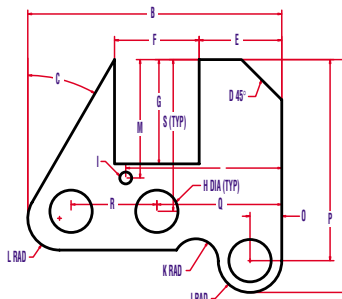
PED05



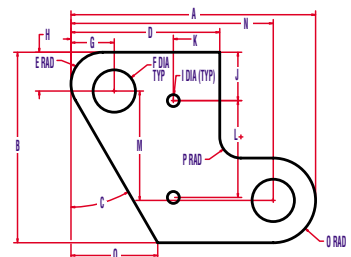
PED06



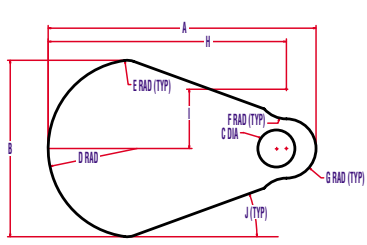
PED07



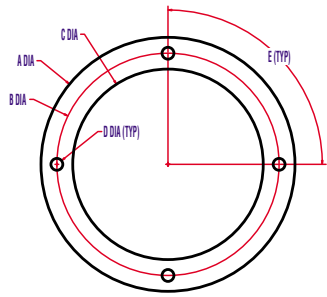
PED08



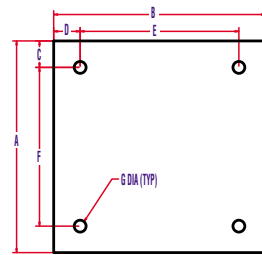
PED09



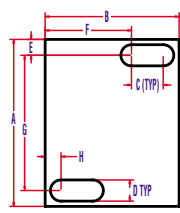
PED10



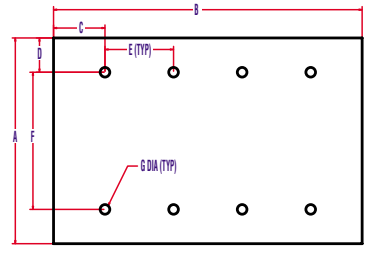
PED11



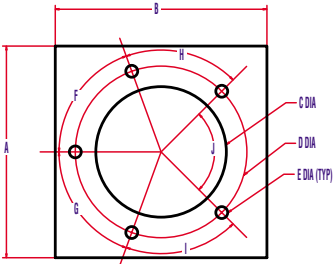
PED12



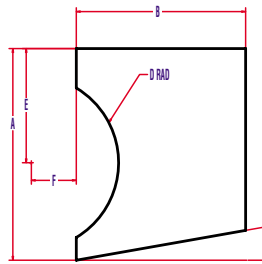
PED13



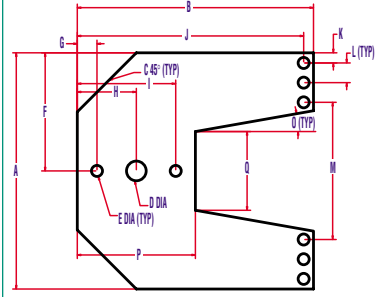
PED14



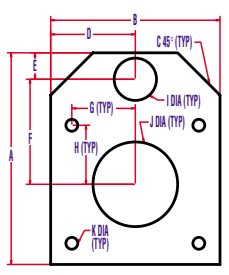
PED15



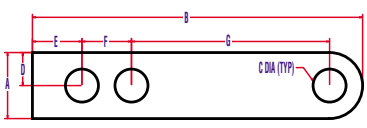
PED16



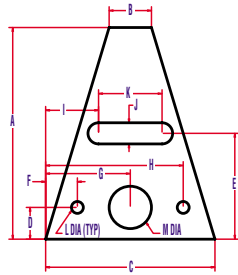
PED17



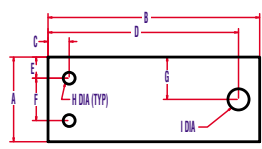
PED18



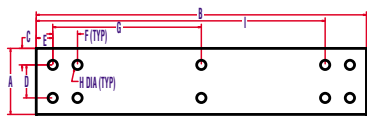
PED19



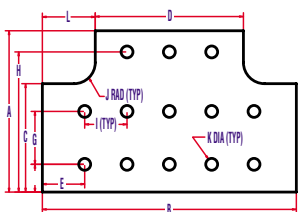
PED20



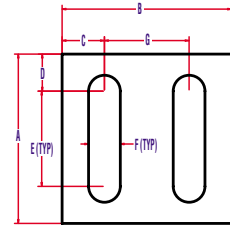
PED21



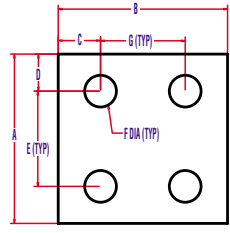
PED22



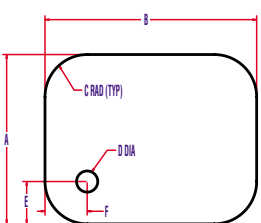
PED23



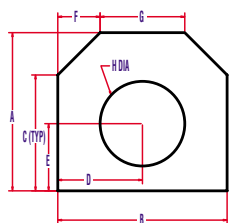
PED24



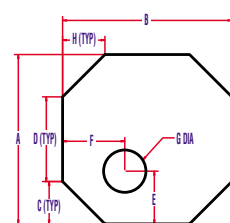
PED25



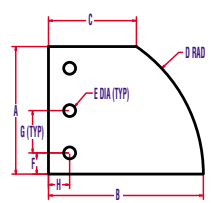
PED26



PED27



PED28



## STEEL BURNING SYSTEMS

Cutoff, Weld Prep,  
Coping, Haunches,  
Beam Splitting,  
Compound Miters,  
Castellations, Miter  
Cuts and  
More...



## STRUCTURAL DRILLING MACHINES

Simplicity, superior design,  
and machine productivity  
have led the Peddimat drill  
lines by Peddinghaus to  
become the industry  
standard of structural steel  
fabricators throughout the  
world with over 1,100  
installations.



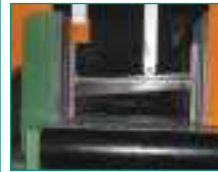
## MATERIAL HANDLING SYSTEMS



Peddinghaus has  
designed and  
manufactured material  
handling systems for  
structural steel shop  
installations for the past  
five decades. A cost-  
effective shop layout can  
be custom designed for  
your specific tonnage...  
now and in the future.

## BAND SAWS

Peddinghaus has pioneered  
the development of band  
sawing technology for  
structural steel sections.



## ANGLEMASTERS

Automatic Punching, Marking & Shearing  
of Miscellaneous Shapes.



## STEELWORKERS

Peddinghaus Steelworkers have set the  
international standard for excellence. The  
foundation of any fabrication or maintenance  
shop, Peddinghaus offers a model perfectly  
suited for your application.



*Established in 1903, Peddinghaus has been instrumental in providing quality equipment for virtually every major construction project in the world. As the industry leader in innovative technology for structural steel and heavy plate fabrication, Peddinghaus stands ready to serve our industry partners.*

**Structural integrity is more than an engineering term –  
it's the Peddinghaus way of doing business.**



**Peddinghaus Corporation**  
300 North Washington Avenue  
Bradley, Illinois 60915  
Phone 815-937-3800  
Fax 815-937-4003  
[www.peddinghaus.com](http://www.peddinghaus.com)

**Peddinghaus Corporation U.K. Ltd.**  
Unit 6  
Queensway Link Industrial Estate  
Stafford Park 17  
Telford, Shropshire TF3 3DN UK  
Phone 01952-200377  
Fax 01952-292877

ISO 9001:2000  
Certified



**Dedicated to progress, individual machine specifications are available at [www.peddinghaus.com](http://www.peddinghaus.com)**

We reserve the right to make design alterations without notice. Some photographs printed in this publication may be taken with safety equipment removed for photographic purposes. However, in actual operation it is recommended that correct safety procedures and equipment be utilized.

