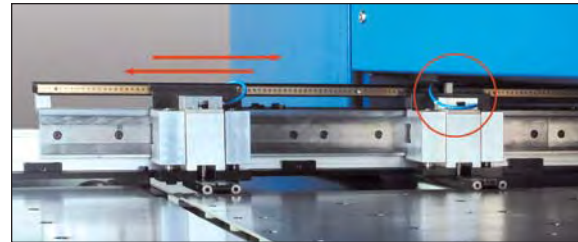


Machine Specifications

Working Range	
CP - 750	30" x 80"
CP - 1000	40" x 80"
CP - 1250	50" x 80"
Maximum sheet length	32'
Maximum sheet thickness	
With standard clamps	1/4"
With special clamps	1/2"
With RevoTool	1/4"
Maximum punching force	
Standard	36 tons
Optional (non-rotation machines only)	50 tons
Maximum workpiece weight	440 lbs.
Maximum positioning speed	
X axis	2,365 ipm
Y axis	1,180 ipm
Combined X & Y diagonally	2,650 ipm
Maximum punching speed	
Standard hydraulics	400 spm
High speed option w/ oil chiller	800 spm
Maximum punch diameter	4"
Maximum stroke length	3.54"
RevoTool positions	4, 6, 7 or 8
Tool change time, manual	10 - 15 sec.
Tool change time, RevoTool	2 - 4 sec.
Space Requirements	
CP - 750	13'6" x 13'
CP - 1000	13'6" x 14'8"
CP - 1250	13'6" x 16'6"
Weights	
CP - 750	16,250 lbs.
CP - 1000	20,250 lbs.
CP - 1250	23,100 lbs.
Addition for Rotation	500 lbs.
Electrical Consumption at 230 / 460 Volts	
Continuous operation, 1/8" material	4.9 / 7.7 kW/h
Continuous operation, 1/4" material	5.4 / 8.75 kW/h
Amperage	25 / 35 Amps
Hydraulic motor	7.5 / 15 HP
Compressed air requirement	min. 4.5 bar / 65 psi
Hydraulic oil reservoir	115 liter / 160 liter high speed

Available Options:



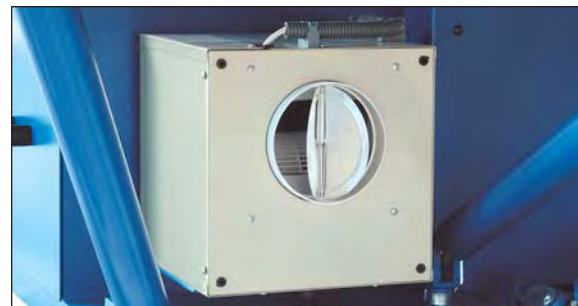
Automatic Clamp Repositioning



Programmable Spray Mist Lubricant



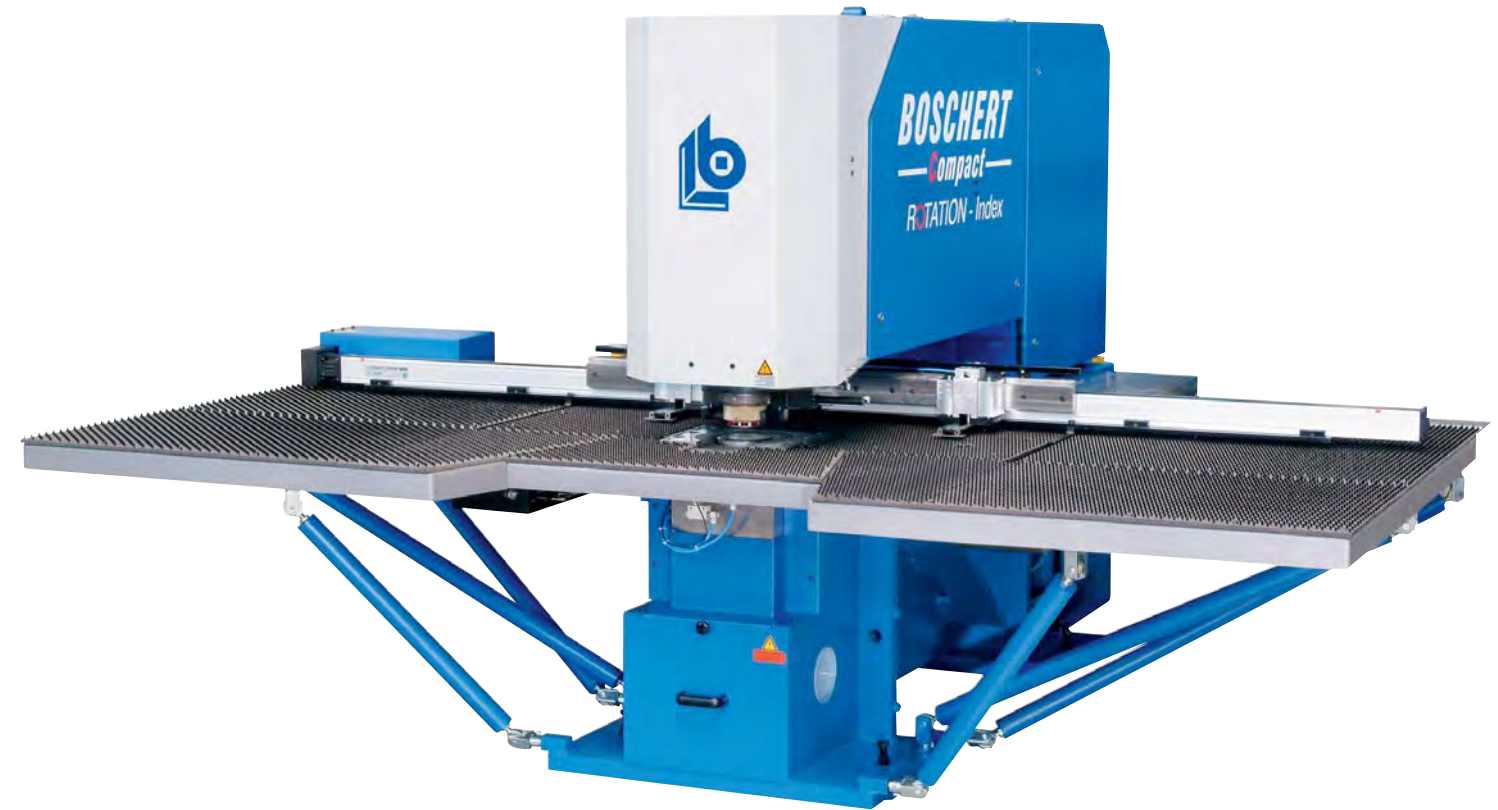
Ball Transfers or Brushes in Table



Vacuum Slug Removal

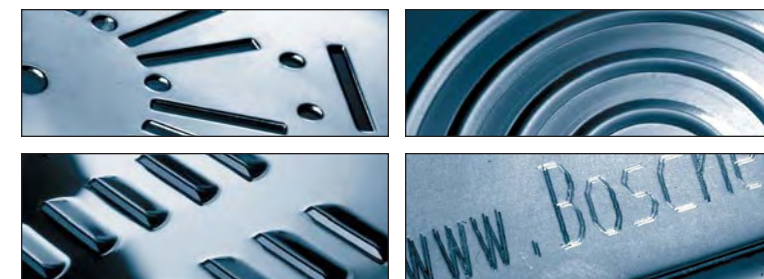
CP - Series CNC Punching Machines

- **CP Basic** - simple, rigid and reliable punching
- **CP RevoTool** - adds Boschert's multi-tool solution to enhance productivity
- **CP Rotation-Index** - for punching complex parts at half the cost of turrets or ATC punches



Productive CNC punching with affordable configurations for all fabrication shops

- **Punching**
- **Nibbling**
- **Forming**
- **Marking**
- **Tapping**



BOSCHERT'S modern plant in Germany's Black Forest region.



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CP - Series Standard Features



CP - 1250 with RevoTool and material ball supports



Frame: Solid welded steel construction guarantees the highest stability for punching sheets up to 1/2" thick



TFT 10.5" color display: Adjustable and mounted on casters for easy positioning. Disc drive, E-stop, ram jog and all machine movements are within easy reach.



Control panel: Planned for easy access and separate from machine body. Includes digital drives, transformers, cooling fan and military grade CPU.



Frame: Main component of the C-frame is 6" thick normalized steel. Elemental analysis designed stiffeners eliminate flex found in cast frames.



Robust Construction: Widely spaced ball screws and linear guides guarantee positioning accuracy and repeatability.

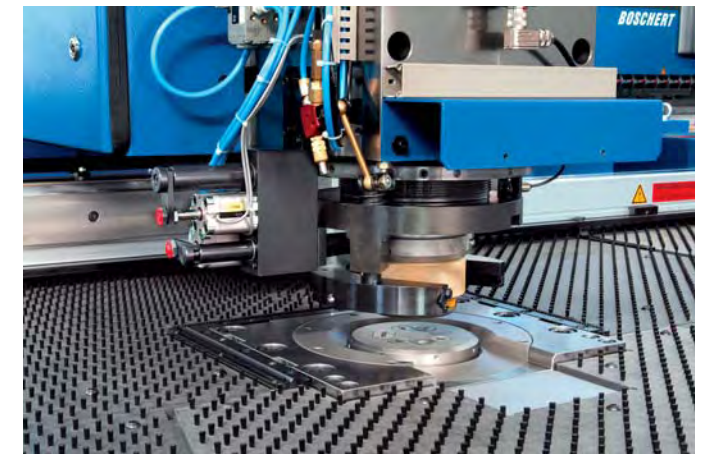


Industrial CPU: With RS232 and modem. Optional expanded memory, and USB or wireless LAN.

Rotation



Extremely heavy-duty rotation head. Solid construction with brushless DC motor and digital measuring system. The rotary axis is driven by fully synchronized motors, oversized for long life.



Indexing mechanism for Rotation RevoTool. Also shown is the stripper holder height adjustment.

Available Tooling:

Trumpf style tooling is standard and allows for the most productive options. Many other tooling systems are available including 28XX, thick turret (Amada), thin turret (Strippit) and Wiedemann.



Standard Trumpf style punch, alignment rings and die.

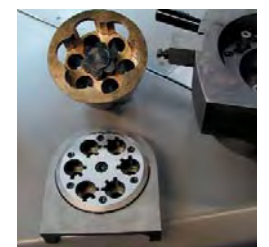
Boschert RevoTool

RevoTool, Boschert's multi-tool solution makes our machines even more productive. By increasing tools in the head to 4, 6, 7 or 8 stations, many complete parts can be processed without manual tool change.



Boschert 4-way and 7-way RevoTool punch heads and die bases. Complete tool sets of customer choice are included.

Thick Turret Tooling



(Some features not available with turret tooling. See your distributor or Boschert for details.)

Hydraulic Power Notchers with TRI-GIDE™

90° Fixed Angle Models:

Lite, Eagle, Eagle 250, Silver Eagle, Golden Eagle

Variable Angle Models:

Vari IV, K30/120



EAGLE
(LB12)



LITE



SILVER EAGLE W/ PUNCH
(LB13-KS)

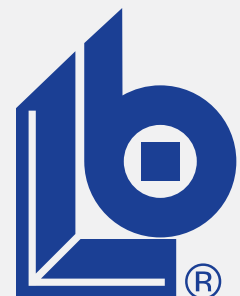


GOLDEN EAGLE
(LB15/2000)

(Photos show machines with guards removed)

Affordable & Reliable Precision Notching

- *Fixed angle machines to 3/8" capacity*
- *Variable angle machines to 1/4" capacity*
- *Clean cuts guaranteed*
- *Off-center cuts are not an issue*
- *Extra long blade life is assured due to the unique design features in our TRI-GIDE system*
- *Internal stop bar for shearing on most models*



simply better!

BOSCHERT

Two station machines



Silver Eagle (LB13) Coping station with standard 1" x 4" blades



Silver Eagle QUICK with quick-change tool sets for special cuts and notches



Silver Eagle/Punching with standard Trumpf tooling

Most of our machines can be equipped with a second station. More details are shown in the technical data section. On the second station, we offer the most flexible range of options including press arms for unitools – please send us your drawings or requirements.

Variable angle machines



Vari-IV (Mini-S) with angles from 30 – 120 degrees and capacity of 5/32" in mild steel







K30-120 variable angle notcher with full 1/4" capacity in mild steel. Notches from 30 – 120 degrees



The BOSCHERT variable angle system is unique in the world. A 30° upper blade is directly connected to corresponding lower blades. All notches of more than 30° are made automatically with a left and right notch. Pneumatic power rotates the blades after each cut. This innovative system guarantees exceptionally long blade life compared to other conventional machines.

BOSCHERT Notcher Technical Data

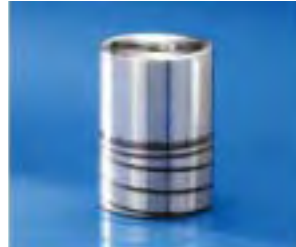
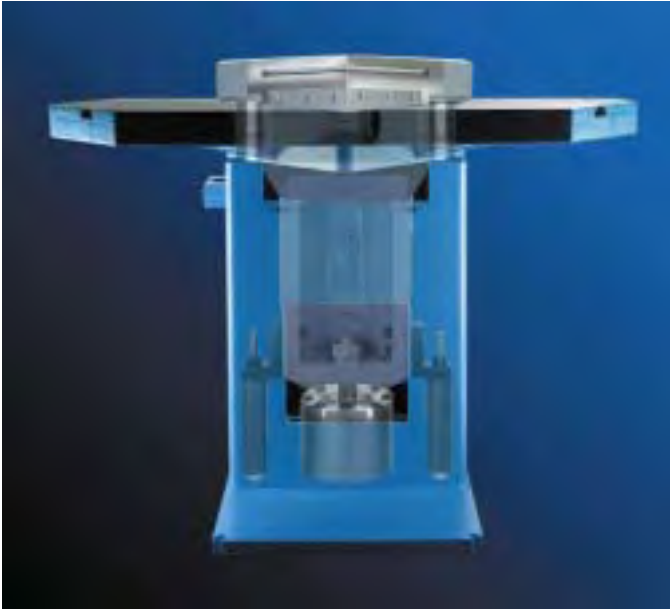
Model	Cutting Capacity	Cut Length	Cut Angle	Machine Weight	Overall Dimensions	Table Dimensions	2nd Station	Motor Size
Lite	5/32" (10ga.)	8-7/8" x 8-7/8"	90°	1452 lbs	49" x 36" x 53"	35" wide by 25"	/	4.5 hp
Eagle (LB 12)	1/4" (3/16")	8-7/8" x 8-7/8"	90°	1540 lbs	49" x 36" x 53"	35" wide by 25"	/	6.5 hp
Silver Eagle (LB 13)	1/4" (5/32")	8-7/8" x 8-7/8"	90°	2200 lbs	53" x 43" x 53"	43" wide by 31"	/	6.5 hp
Silver Eagle w/cope	1/4" (5/32")	8-7/8" x 8-7/8"	90°	2420 lbs	53" x 43" x 50"	43" wide by 44.5"	 1" by 4"	6.5 hp
Silver Eagle w/punch	1/4" (5/32")	8-7/8" x 8-7/8"	90°	2420 lbs	53" x 43" x 50"	43" wide by 44.5"	Ø 1.2"	6.5 hp
Silver Eagle Quick	1/4" (5/32")	8-7/8" x 8-7/8"	90°	2420 lbs	53" x 43" x 50"	43" wide by 44.5"	1 x 4" 15-45° x 4"	6.5 hp
Golden Eagle LB15/2000	3/8"* (1/4")*	8-7/8" x 8-7/8"	90°	2420 lbs	53" x 43" x 50"	43" wide by 31"	/	6.5 hp
Golden Eagle w/cope	3/8"* (1/4")*	8-7/8" x 8-7/8"	90°	2640 lbs	53" x 43" x 50"	43" wide by 44.5"	 1" by 4"	6.5 hp
Golden Eagle w/punch	3/8"* (1/4")*	8-7/8" x 8-7/8"	90°	2640 lbs	53" x 43" x 53"	43" wide by 44.5"	Ø 1.2"	6.5 hp
Golden Eagle Quick	3/8"* (1/4")*	8-7/8" x 8-7/8"	90°	2640 lbs	53" x 43" x 50"	43" wide by 44.5"	1 x 4" 15-45° x 4"	6.5 hp
Vari-IV (Mini S)	5/32" (10ga.)	5.9" x 5.9"	30 - 120°	1870 lbs	49" x 39" x 46"	39" wide by 26"	/	6.5 hp
Vari-IV w/cope	5/32" (10ga.)	5.9" x 5.9"	30 - 120°	2200 lbs	51" x 39" x 49"	39" wide by 44.5"	 1" by 4"	6.5 hp
Vari-IV w/punch	5/32" (10ga.)	5.9" x 5.9"	30 - 120°	2200 lbs	51" x 39" x 51"	39" wide by 44.5"	Ø 1.2"	6.5 hp
K30-120	1/4" (3/16")	7.9" x 7.9"	30 - 120°	3520 lbs	59" x 51" x 54"	39" wide by 29"	/	6.5 hp
K30-120 w/cope	1/4" (3/16")	7.9" x 7.9"	30 - 120°	4180 lbs	59" x 51" x 54"	63" wide by 39"	 1" by 4"	6.5 hp
K30-120 w/punch	1/4" (3/16")	7.9" x 7.9"	30 - 120°	4400 lbs	59" x 51" x 54"	63" wide by 39"	Ø 4"	6.5 hp

() Stainless, * Reverse blade used

BOSCHERT

Precision, Durability & Productivity

Hydraulic Power Notchers with TRI-GIDE™



BOSCHERT Patented Quality

BOSCHERT stands out among the many corner notchers available on the world market today. With over 50 years experience in building notchers, **BOSCHERT** is accepted world-wide as the best that is built.

The most unique feature of the **BOSCHERT** notcher is our patented TRI-GIDE ram guidance system that gives our machines the greatest accuracy and durability of any notcher made.

"Tri" is for the three large guiding cylinders that are integral to the ram. Two cylinders are at the top of the ram, near the blades. The third is in the base and fully integrated with the hydraulic piston.

"Gide" is for the precise vertical travel of the ram. Cutting torque is distributed to all three cylinders evenly assuring the smoothest cuts in all ranges of material.

TRI-GIDE has eliminated:

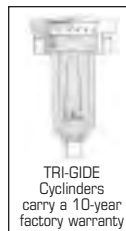
- Uneven wear and replacement problems associated with traditional designs
- Frequent blade sharpening
- Adjusting clearances for different materials

Exclusive Benefits of TRI-GIDE:

- Extremely long blade life due to precise, rigid ram travel
- Burr free cuts on all material within capacity
- Off center loading presents no problem
- Trouble-free self lubricating system



BOSCHERT'S modern plant in Germany's Black Forest region.



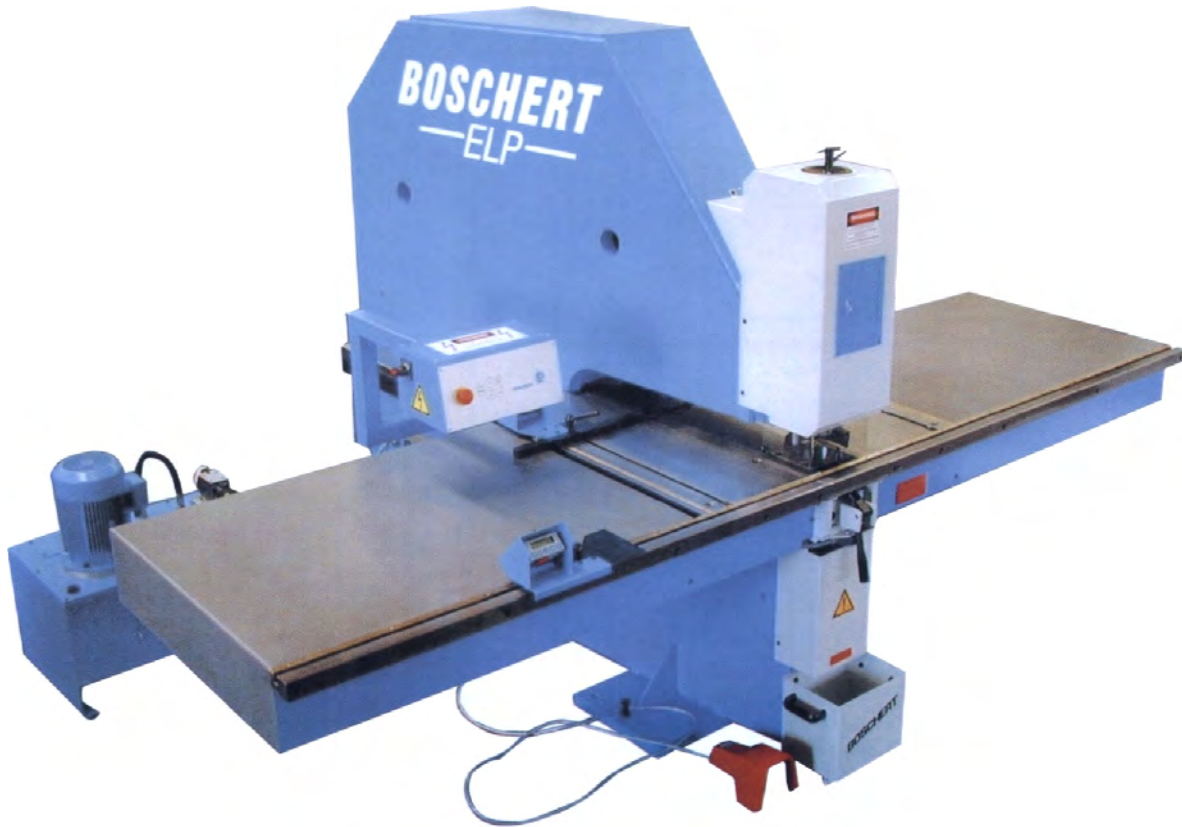
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BOSCHERT

Manual Hydraulic Punching Machine Series "EL"



Boschert EL Series Hydraulic Punching Machines to 50 Tons

- *Throat depths of 12", 20", 30" and 40"*
- *36-ton capacity or 50-ton capacity*
- *Trumpf, 28XX, Amada or Strippit style tooling*
- *Constant punching pressure*
- *Maintenance-free hydraulic systems*
- *Quick-change tools*
- *Optional Digital Readouts*



simply better!

BOSCHERT

EL Series Manual Punching Machines

The EL series of manually controlled hydraulic punching machines from Boschert have dependability of over 50 years experience in building precision equipment.

All machines include:

- One year factory warranty on all parts and labor
- One stripper holder and plate
- Adjustable stroke length
- Electrics for 220/440/3/60 operation

Tooling Systems

The Trumf and 28XX tooling systems are standard on the EL series punching machines. Other systems available include Amada and Strippit. The tool is put directly into the tool holder without any intermediate rings. With standard tools systems, users can maximize their current tooling or purchase tools available from many sources.

The tool set consists of the punch, die and stripper and is changed in less than 10 seconds. The largest tool diameter is 4" or any shape fitting within. Tool regrinds are compensated by the adjustable stroke length.



Optional Digital Readout

Digital Readout

Two-axis digital readouts can be mounted to any EL-series machine to assure high accuracy and increase productivity. The system is battery operated to eliminate cables and features high precision magnetic scales giving accuracy to 0.004". The system is easy to use and is ergonomically designed to offer operational comfort.



(EL 500 - 36 ton with optional Digital Readout System)

Specifications

Max. Depth Stop Range - Y-axis x X-axis	
EL 300.....	12" x 20"
EL 500.....	20" x 40"
EL 750.....	30" x 60"
EL 1000.....	40" x 60"
Maximum Punching Force.....	
	36 Tons
Optional.....	50 Tons
Maximum Punching Diameter.....	
	4"
Maximum Sheet Thickness.....	
	1/2"
Working Area Each Side of Head	
EL 300.....	12" x 20"
EL 500.....	20" x 40"
EL 750.....	30" x 60"
EL 1000.....	40" x 60"
Stroke Length.....	
	0 - 1.18"
Approximate Floor Space Required	
EL 300.....	52" x 40"
EL 500.....	100" x 63"
EL 750.....	140" x 66"
EL 1000.....	174" x 66"
Approximate Height	
EL 300.....	60"
EL 500.....	66"
EL 750.....	72"
EL 1000.....	72"
Approximate Weight	
EL 300.....	2,750 lb.
EL 500.....	5,500 lb.
EL 750.....	6,400 lb.
EL 1000.....	9,900 lb.



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BOSCHERT

*CNC Punch / Plasma Machine
CombiCut® Series*



Boschert CombiCut Series

**Plasma Cutting • Punching
Forming • Marking**

- Single, Twin or Tri-head configurations
- Punching capacity of 36 or 50 Tons
- Throat Depths to 60" • 60" - 120" X-axis
- Automatic Repositioning included
- Hypertherm® HPR130™ "HyPerformance" system
- Complex internal and external contours are easily processed with unsurpassed cut quality
- Available with Rotation and RevoTool (multi-tool)



simply better!

BOSCHERT

CombiCut® SERIES of CNC Punch / Plasma Machines

Combination of Technologies

In a joint effort with Hypertherm, the world leader in plasma arc cutting equipment, Boschert has developed a cost-effective alternative to combination punch/laser machines. Because of advances in the fine plasma technology in recent years, it is now possible to cut even very thin gauge sheet metal with high quality, low consumable costs and high productivity.

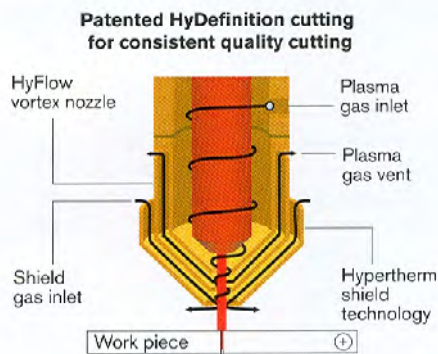
Advantages:

- High quality contouring with Hypertherm "HyPerformance" fine plasma system
- Large working areas at low cost
- High productivity at costs far less than combination punch/laser
- Many configurations available customized to your application

Extremely flexible:

Heavy-duty dual, C-frame construction allows working of oversized sheets by turning and automatic repositioning function.

Hypertherm "HyDefinition" Plasma System



**HyPerformance Plasma provides a
wide range of process flexibility**



HyPerformance technology aligns and focuses the plasma arc, improving arc stability and energy for more powerful precision cutting. Dross-free cutting minimizes part clean-up, scrap and rework. Improved hole and internal shape cuts rival laser quality at much lower cost.

Specifications:

Working range:

CombiCut 750x1500.....	30" x 60"
CombiCut 1000 x 2000	40" x 80"
CombiCut 1250 x 2500	50" x 100"
CombiCut 1500 x 3000	60" x 120"

Performance:

Plasma power	130 A
Maximum sheet thickness.....	1/2"
Maximum sheet length	33' w/ repo.
Maximum punching force	36 tons
Maximum punching force (optional).....	50 tons
Maximum workpiece weight.....	440 lbs.
Size of programmable parts chute.....	20" x 20"
Maximum punch diameter.....	4"
Tool change time:	

Manual monotool.....	15 sec.
RevoTool (4,6,7 or 8 tools).....	2 sec.

Maximum programmable stroke length.....	3.5"
Maximum stroke rate	

Punching	400 spm
Marking	800 spm

Maximum positioning speed

X-axis	2360 ipm
Y-axis	1180 ipm
Diagonal	3350 ipm

Positioning accuracy	+/- 0.004"
----------------------------	------------

Repeatability	+/- 0.001"
---------------------	------------

Control.....	Boschert Graphic w/ RS232
--------------	---------------------------

Type of drives	AC digital servo
----------------------	------------------

Height of table above floor	35.4"
-----------------------------------	-------

Approximate floor space

CC750	20' x 16' x 7'H
CC1000	23' x 18' x 7'H
CC1250	26' x 20' x 7'H
CC1500	30' x 21' x 7'H

Approximate weight

CC 750	29,750 lb.
CC 1000	31,750 lb.
CC 1250	36,000 lb.
CC 1500	38,250 lb.



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Your Authorized Distributor:

BOSCHERT

*Tool Grinding Machine
Model "Easy-Sharp"*



Boschert Easy-Sharp **Cost Efficient Punch & Die Grinding**

- Designed for simple grinding of Trumpf style tools
- Also available in Turret (Amada, Strippit, Wiedemann) style version!
- Punch adapter for whisper and flat shear tools
- Diamond wheel dresser
- Coolant system
- Die adapters for size 1, 2 & 3 dies



simply better!

BOSCHERT

Easy-Sharp Tool Grinding Machine

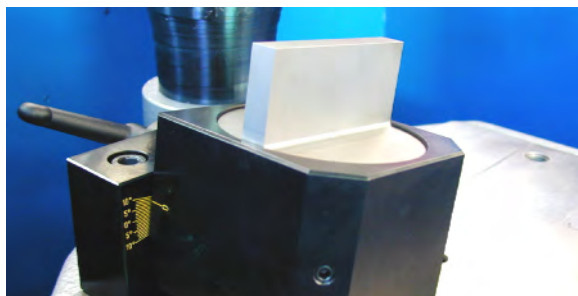
The EASY-SHARP tool grinding machine from Boschert is the cost effective way to get the most from your punching machine investment. The most common problem causing punching machine downtime is tooling issues. Either incorrect die clearances or dull punches and dies cause most machine stoppages.

The EASY-SHARP from Boschert is an easy-to-use tool grinding system that will protect your investment in a punching machine by allowing you to keep your tools in top shape, while keeping costs low. Regular and timely grinding of tools guarantees a constant punch quality, extends the life of tooling and protects your punching machine investment.

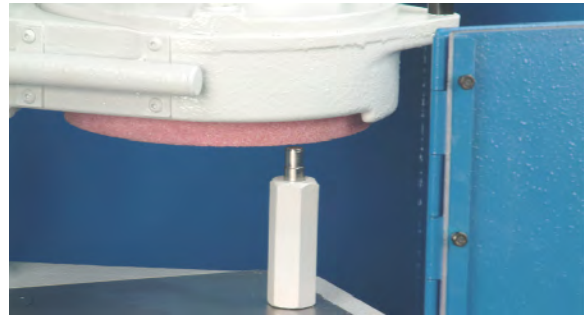


The vertical adjustment of the grinding spindle is made by hand wheel. The cross travel is made by manual movement of the head across the punch or die.

The coolant system ensures the hardness of the tool is properly maintained. Coolant is efficiently directed to the tool by durable piping designed for long life and trouble free operation.



The punch holder allows easy grinding of tools with shear.



Wheel dressing diamond and holder included



The heavy-duty steel stand with guarding keeps your shop neat and clean while taking minimal floor space.

Specifications

Grinding wheel diameter 6.9"
Grinding wheel speed 2,825 rpm
Vertical adjustment of head 6"
Feed motion increment 0.0008"
Drive motor 1 HP
Fuse protection 3 x 10 Amp
Working area 16" x 6"
Working height above floor 43"
Over dimensions 32" x 20" x 51" High
Approximate weight 350 Lbs.



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