

METALTEK XB1200  
ROBOTIC CNC  
STEEL COPING  
MACHINE

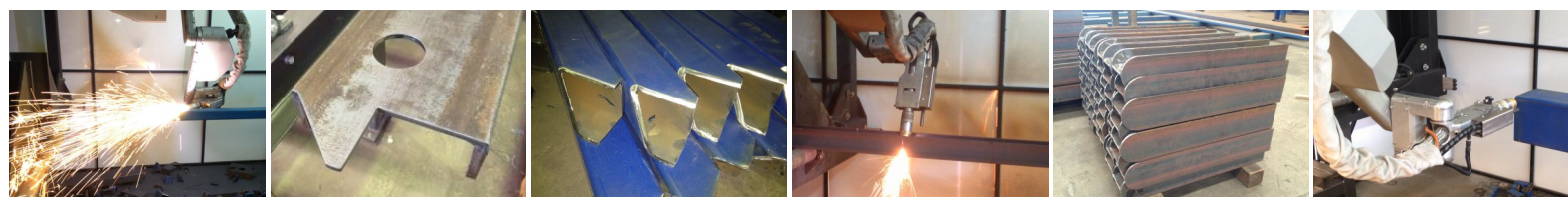


# **METALTEK**

## **XB1200**

## **STRUCTURAL STEEL COPING MACHINE.**

### **HIGH-PERFORMANCE STEEL PROCESSING.**



PROUDLY DESIGNED AND MANUFACTURED IN AUSTRALIA BY

 **Advanced Robotic Technology**  
THE TRUSTED NAME IN CNC TECHNOLOGY

# IF PRODUCTIVITY IS YOUR GOAL, LET ART SHOW YOU HOW TO ACHIEVE IT.

ART BRINGS YOU THE LATEST ADVANCEMENTS IN STRUCTURAL STEEL PROCESSING. FULLY INTEGRATED STOCK CONTROL, NESTING, MATERIAL HANDLING AND ADVANCED MOTION CONTROL ALGORITHMS COMBINE TO PROVIDE THE ROBOTIC STEEL COPING MACHINE OF THE FUTURE. THE METALTEK XB1200 IS COMBINED WITH HYPERTHERM HYPERFORMANCE HPR-XD CUTTING TORCHES TO PROVIDE THE HIGHEST QUALITY PLASMA PROCESSING AVAILABLE.



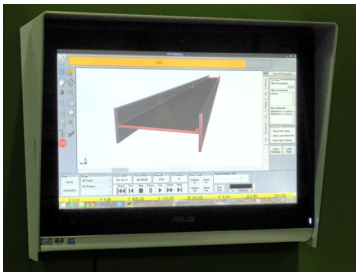
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## METALTEK

### Process these materials:

- Universal Beam (UB)
- Universal Column (UC)
- Parallel Flange Channel (PFC)
- Rectangular Section (RHS)
- Square Section (SHS)
- Equal & Unequal Angle (EA/UA)
- Round Pipe (CHS)
- Flat Bar

**Hypertherm®**  
HyPerformance Plasma HPR<sup>XD</sup>



#### Large Touchscreen Control:

- Rotate job in 3D
- Pinch-to-zoom
- Easy to learn
- Supports common files



#### Purpose Built Robotic Arm:

- Able to access all faces
- Full bevel in any direction
- Cut & mark on all sides
- Long reach underneath



#### Powerful Hitch-Feed System:

- 800kg clamping force
- Precision servo axis drives
- 2500mm travel per feed cycle
- Feeds up to 1250mm wide



#### Hypertherm XD power unit:

- World leader in plasma
- Fast, clean cutting
- Liquid-cooled for long life
- Bevel torch allows 50° cuts

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# THIS IS WHAT WE PUT IN.

ART has been designing and manufacturing a wide range of world-beating products for the metal processing industry from our factories in Brisbane Australia Since 1998.

At ART, we create dynamic machines that will surprise you with high productivity and ease of use. This is what we refer to as "State of the ART technology." Custom designed robotic arms, servo controlled hitch feed positioning systems and advanced 3D multi-axis controls are just a few of the developments that increase productivity and performance and capabilities of the machine. And now, ART's ProfileShop V4 touchscreen user interface combines ease of use with advanced features to automate all cutting settings, resulting in optimum cut quality. At ART, we are driven to do better every day.

Have a look at some of the features that make the Metaltek XB1200 the world leader in structural steel processing machines

## Intelligent controller

ART ProfileShop V4 touchscreen controller gives ultimate control over every job. User log-in enables functions suitable to each operator's capabilities. Modify nests on the machine, start, stop, adjust parameters and more with a touch of the finger.

## Automatic Material Loading

The operator places the new material onto the loading conveyor and notifies the controller that the material is ready.

After completion of the previous material, the controller automatically pulls the next length of material across onto the rollers where it is then fed into the cutting area for measurement and processing.

## Out-feed rollers and cross feed

An integrated out-feed roller conveyor system is provided to assist with unloading finished parts. Rollers feed the material out of the machine and it is then pulled sideways onto the unloading area. 1.5mtr spacing on first three cross-feeds caters for smaller parts.

## High torque servo drives

The Metaltek XB series comes with high torque AC servomotors coupled to precision zero backlash gearheads. High power means fast, agile cutting. AC servo control means accurate cutting without loss of position.

## Active dry fume extraction

Automatically turns on and off as required. The extractor removes fumes from inside the cabinet. The extraction unit employs a reverse pulse filtration system to provide optimum air quality in the workshop, and helps to protect our environment from emissions.

## Precision guide ways

German-made linear bearings provide smooth movement to ensure accurate cutting. Wiper seals on all bearing surfaces keep bearings dust free for long service life.

## Comprehensive database

A large database includes all commonly available sections. The controller knows exactly how to cut each type of material. Pierce and cut height, feed rate, gas selection and flow, height settings, dwell and more are all set automatically.

## Extensive file support

DSTV (\*.nc1)  
DXF (\*.dxf)  
STEP (\*.stp)  
IFC (\*.ifc)  
Supports Tekla, StruCAD, AutoCAD and many other design packages



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# THIS IS WHAT YOU GET OUT...

- Straight cuts & trims
- Copes & complicated joints
- Weld preps & bevels
- Slots & Holes
- Web thinning
- Custom shapes
- Four sided processing

## **METAL** **TEK**

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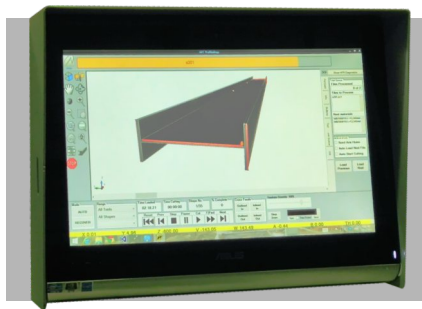
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## ■ Standard features



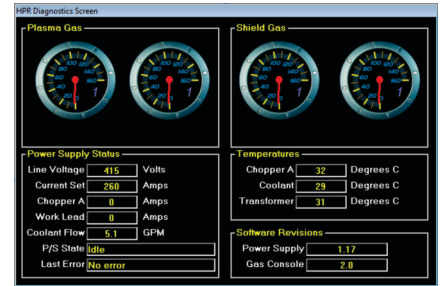
■ **4 sided processing.** The specialised robotic arm has a 450° reach which enables the Metaltek XB to cut and mark underneath. This gives the ability to cut rectangular hollow section **on all four sides**. Not only can it reach underneath, but it can perform full 45 degree bevels from any direction on any face.



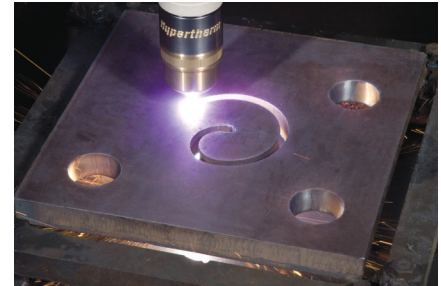
■ **ART ProfileShop v4** gives the operator extensive control over all machine functions. The multipoint touch screen gives pinch-to-zoom and 3D rotation of solid models. The controller manages material quantities, nesting, collision avoidance and automatic cut path generation with ease.



■ **Wireless pendant controller** allows the operator to control the in-feed and out-feed conveyors from anywhere on the factory floor. The pendant also allows remote stopping of cutting processes as well as many other functions.



■ **HPRXD diagnostics screen** gives readouts on internal information. Displays gas selections, inlet pressures, flow settings, temperature and coolant flow. Real English pop-up messages and automatic tests help to verify correct operation.



■ **True Hole™ technology** greatly improves hole quality and virtually eliminates taper. The controller automatically identifies suitable holes and adjusts all settings to achieve optimum roundness and cylindricity. No special software is required because the controller does all the work.



■ **Integrated material handling.** The material handling system combines both cross-feed chain conveyors and servo driven position controlled roller conveyors. Material is loaded onto the in-feed system by the operator where it is fully processed and rolled out of the out-feed system automatically. All conveyor functions are controlled by the CNC controller.

Manual override is available for operator control of conveyors

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## TRAINING:



■ **On-site training** is provided as a standard feature. Step by step instruction is given on drawing parts, tool path and nesting, and machine operation. Optional extended training is also available on request for existing or new operators. This ensures that you always have qualified operators on hand.

□ **ART Factory based training** is also available in a classroom style setting at the ART factory. This is often a favourable option because students are not interrupted during training. This results in a better learning experience and can be done prior to machine delivery. As this can be a more cost effective option it is also good for updating existing operator skills or training new staff.

## FEATURES LIST:

Standard Features	Advantages	Benefits
Touchscreen controller	Simple to learn but very powerful	Start producing product faster
ART ProfileShop v4 software	Graphical editing of nests, tooling and all parameters	Quickly modify and adjust parameters at machine
Wireless remote controller	Control conveyors, start/stop machine etc.	Faster job alignment and setup
High definition cutting	Precise cutting, excellent edge quality, minimal dross	Better quality - close to laser in most applications
True Hole™ technology	Virtually eliminates taper for excellent hole quality	Bolts fit easily with accurate hole sizing
Power Pierce™ technology	Liquid cooled tips to pierce extra thick plate	Increases capacity and extends consumable life
Etch marking	Engrave part numbers and lines using plasma torch	Identify parts - remove confusion - save time
Automatic fume extraction	Efficiently removes fumes from work environment	Meet OH&S and environmental requirements
AC brushless servo motors	High power with accurate positioning	Full torque at high speed means faster production
DSP based motion controller	Smooth control and extreme flexibility in control	Increases cut quality with precise control
Helical rack and pinion	Smooth and accurate for high precision and cut quality	No cogging means smoother, quieter motion
Wireless networking	Connects to office network for file transfer	Easy interfacing to existing computer systems
Remote access	Technicians can adjust, diagnose and assist remotely	Get help if you need it - where you need it

Optional features	Advantages	Benefits
Fume extraction fan	Remove fumes from workshop	Better environment for workers
Fume extraction & filtration	Remove fumes and filters air	Protect the environment from dust and fumes
Auto remote start unit	Control extraction or other accessories automatically	Saves time and electricity
Refrigerated air dryer/booster	Filters and dries air, boosts pressure	Improves consumable life and cut quality

### Backup and support

Extended warranties, telephone support, remote technical assistance and on-site servicing are all standard features

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