XB1200
STRUCTURAL STEEL COPING MACHINE.
HIGH-PERFORMANCE STEEL PROCESSING.
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 HYPERTERM HYPERPERFORMANCE HPR-XD CUTTING TORCHES TO PROVIDE THE HIGHEST QUALITY PLASMA PROCESSING AVAILABLE.

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

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

THE TRUSTED NAME IN CNC TECHNOLOGY

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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.
THIS IS WHAT YOU GET OUT...

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

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Standard features

- **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.

- **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.

- **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.

- **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.

- **4 sided processing.** The specialised robotic arm has a 450º 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.

- **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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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:

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<th>Standard Features</th>
<th>Advantages</th>
<th>Benefits</th>
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<tr>
<td>Touchscreen controller</td>
<td>Simple to learn but very powerful</td>
<td>Start producing product faster</td>
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<tr>
<td>ART ProfileShop v4 software</td>
<td>Graphical editing of nests, tooling and all parameters</td>
<td>Quickly modify and adjust parameters at machine</td>
</tr>
<tr>
<td>Wireless remote controller</td>
<td>Control conveyors, start/stop machine etc.</td>
<td>Faster job alignment and setup</td>
</tr>
<tr>
<td>High definition cutting</td>
<td>Precise cutting, excellent edge quality, minimal dross</td>
<td>Better quality - close to laser in most applications</td>
</tr>
<tr>
<td>True Hole™ technology</td>
<td>Virtually eliminates taper for excellent hole quality</td>
<td>Bolts fit easily with accurate hole sizing</td>
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<tr>
<td>Power Pierce™ technology</td>
<td>Liquid cooled tips to pierce extra thick plate</td>
<td>Increases capacity and extends consumable life</td>
</tr>
<tr>
<td>Etch marking</td>
<td>Engrave part numbers and lines using plasma torch</td>
<td>Identify parts - remove confusion - save time</td>
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<tr>
<td>Automatic fume extraction</td>
<td>Efficiently removes fumes from work environment</td>
<td>Meet OH&amp;S and environmental requirements</td>
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<tr>
<td>AC brushless servo motors</td>
<td>High power with accurate positioning</td>
<td>Full torque at high speed means faster production</td>
</tr>
<tr>
<td>DSP based motion controller</td>
<td>Smooth control and extreme flexibility in control</td>
<td>Increases cut quality with precise control</td>
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<tr>
<td>Helical rack and pinion</td>
<td>Smooth and accurate for high precision and cut quality</td>
<td>No cogging means smoother, quieter motion</td>
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<tr>
<td>Wireless networking</td>
<td>Connects to office network for file transfer</td>
<td>Easy interfacing to existing computer systems</td>
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<tr>
<td>Remote access</td>
<td>Technicians can adjust, diagnose and assist remotely</td>
<td>Get help if you need it - where you need it</td>
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<table>
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<tr>
<th>Optional features</th>
<th>Advantages</th>
<th>Benefits</th>
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<tr>
<td>Fume extraction fan</td>
<td>Remove fumes from workshop</td>
<td>Better environment for workers</td>
</tr>
<tr>
<td>Fume extraction &amp; filtration</td>
<td>Remove fumes and filters air</td>
<td>Protect the environment from dust and fumes</td>
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<tr>
<td>Auto remote start unit</td>
<td>Control extraction or other accessories automatically</td>
<td>Saves time and electricity</td>
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<tr>
<td>Refrigerated air dryer/booster</td>
<td>Filters and dries air, boosts pressure</td>
<td>Improves consumable life and cut quality</td>
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Backup and support
Extended warranties, telephone support, remote technical assistance and on-site servicing are all standard features

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