

## MORGAN RUSHWORTH XPH 3100.200 HYBRID PRESS BRAKE



The Morgan Rushworth XPH range of hybrid press brakes are designed with an individual electro-hydraulic servo drive system for each of the left and right cylinders. With this system the hydraulics run on demand when the foot pedal is activated, rather than having a pump running continuously. This results in lower energy usage than a standard hydraulic machine as well as faster cycle times and extremely high accuracy.

All models are fitted with the ESA VIS-875W CNC control featuring a 21" touch screen and both numerical and 2D graphical program entry. These machines follow a rigorous design and manufacturing process to ensure minimum deflection of the machine frame under maximum working pressure. AKAS laser tooling guards are standard and offer a vastly improved operator experience without compromising safety. A comprehensive range of options are available to fully tailor the machine to requirements including 6-axis or 8-axis configurations.

## FEATURES

- Approximately 60% less energy use when idle
- Approximately 45% less energy use during bending
- Approximately 30% faster cycle times
- ESA VIS-875W multi-axis CNC control with numerical and 2D graphical programming and 2D or 3D visualisation
- Control mounted on height adjustable pendant arm
- Fully synchronised CNC control of left and right upper beam cylinder position – Y1 + Y2 axis
- CNC control of back gauge depth – X axis
- CNC control of back gauge height – R axis
- Manual side to side movement of back gauge fingers – Z axis
- Euro style top tool holders with intermediates
- Sectionalised goose neck top tool and multi vee bottom die
- CNC bottom tool crowning system
- AKAS laser tooling guards for enhanced ease of use
- Strong rigid welded mono block frame able to withstand deflection under maximum load
- High precision linear scales for measurement of the stroke depth which are mounted on the side frames rather than the top beam to prevent any inaccuracy through distortion as the beam comes under load
- Hydraulic ram travel guided in low friction slide ways
- Large open height and generous ram stroke
- Deep reinforced throat in side frames
- High approach and return speeds for production bending
- Front support arms with flip stop, adjustable on a linear rail
- Dual foot switch console with emergency stop
- Electrically interlocked side guards
- Electrically interlocked rear access door

## OPTIONS

- Optional off line ESA Bend 3D Software with Control Viewer
- Independent CNC control of side to side movement of back gauge fingers – Z1 + Z2 axis
- Independent CNC tower back gauge system – X1 + R1 + Z1, X2 + R2 + Z2
- Laser angle measurement system with live feedback to CNC control
- Quick release top tool clamping system
- Hydraulic top and bottom tool clamping system
- Additional back gauge fingers
- Additional front support arms
- CNC sheet follower support arms
- Parking area for sheet follower support arms – one per side

## TECHNICAL INFORMATION

| MODEL                             | XPH 3100.200 |         |
|-----------------------------------|--------------|---------|
| Bending Power                     | tonne        | 200     |
| Bending Length (Over Tooling)     | mm           | 3100    |
| Bending Length (Between Frames)   | mm           | 2550    |
| Y Axis Approach Speed             | mm/sec       | 200     |
| Y Axis Bending Speed (Maximum)    | mm/sec       | 10      |
| Y Axis Return Speed               | mm/sec       | 200     |
| X Axis Travel                     | mm           | 750     |
| X Axis Speed                      | mm/sec       | 350     |
| R Axis Travel                     | mm           | 160     |
| R Axis Speed                      | mm/sec       | 240     |
| No of Back Gauge Fingers          |              | 2       |
| No of Sheet Support Arms          |              | 2       |
| Stroke                            | mm           | 260     |
| Daylight                          | mm           | 530     |
| Throat Depth                      | mm           | 410     |
| Table Height                      | mm           | 880     |
| Table Width                       | mm           | 90      |
| Oil Capacity                      | litre        | 2 x 55  |
| Motor Power                       | kW           | 2 x 9.2 |
| Nominal Power (excluding options) | kW           | 34.6    |
| Length                            | mm           | 4850    |
| Width                             | mm           | 2800    |
| Height                            | mm           | 2905    |
| Weight                            | kg           | 10000   |

## OTHER IMAGES

