Morgan Rushworth PBXS CNC 6100/160 Hydraulic Pressbrake

The Morgan Rushworth PBXS CNC hydraulic pressbrakes are fitted with the ESA S 660 W CNC control, featuring a 19" touch screen and both numerical and 2D graphical program entry which is a very user friendly and intuitive to use. Bending can also be graphically visualised in 2D or 3D showing the machine frame, top and bottom tools, back gauge fingers and part orientation. Whilst data input into the S 660 W is very rapid, there is also the option of preparing the program on a PC using the offline software provided, enabling feasibility checks prior to production. Multi-bend operations with complex forms can therefore be effectively managed, reducing operator error or over bending. With the control networked, programs can be loaded direct from the office if required. Additional software if available which can import 3D CAD drawings and interpret the bending information ready to load directly into the control.

The 4-axis CNC capability controls the left and right ram cylinders, the back gauge depth and back gauge height. The postion of the two rams are fully synchronised and accurate to 0.01mm utilising proportional valve technology to ensure ram parallelism and perfect bends. The monoblock welded steel frame ensures minimum deflection under maximum load. The PBXS CNC range

spans from the 1250mm x 40T machine up to the 8100mm x 1000T model. A comprehensive range of options including automated anti-deflection tables are available to fully tailor the machine to your requirements.

Features

- ESA S 660 W CNC 19" touch screen control
- Full synchronisation of Y1 + Y2 axes with proportional hydraulic valve system and constant monitoring by CNC system to +/- 0.01mm accuracy
- High precision linear scales for measurement of stroke depth mounted on side frames rather than top beam to prevent any distortion in accuracy as beam comes under load
- CNC controlled X-axis ballscrew backgauge with servo drive motors
- 2 micrometric backgauge finger-stops with lateral adjustment
- Steel mono-block construction
- Polished chrome plated and ground cylinders
- Long stroke and large open height dimensions
- High approach and return speeds for production bending
- Euro style quick release top tool holders with intermediaries including wedges for crowning
- 88 degree sectionalised goose neck top tool
- 4 way sectionalised multi vee bottom tool
- 2 sliding front support arms with linear guide rails for lateral adjustment and hand wheel for height adjustment, 1000mm long from centre of bottom tool vee
- Double footswitch control and pendant type control arm
- AKAS laser guard protection for enhanced safety
- Electrically interlocked side guards
- Electrically interlocked rear access door

Technical Specification

MODEL	PBXS CNC 6100/160
Bending power tonnes	160
Bending length mm	6100
Distance between columns mm	5100
Y rapid speed mm/sec	140
Y working speed mm/sec	10
Y return speed mm/sec	100
Travel in X axis mm	1000
Speed of X axis (Standard AC axes) mm/sec	330
Travel in R axis mm	160
Operational speed of dynamic Servo R axes mm/sec	240
No of backgauge finger blocks	4
No of sheet support arms	4
Oil capacity Ltr	240
Motor power kW	15
Stroke mm	260
Daylight mm	510
Throat depth mm	500
Table height mm	1000

MODEL	PBXS CNC 6100/160
Table width mm	90
Machine width mm	1960
Length mm	6850
Height mm	2850
Weight kg	20000

Options

- Cybelec ModEva 12S 3D graphical CNC control
- Cybelec ModEva 15S 3D graphical CNC control
- Cybelec ModEva 15S 3D graphical touchscreen CNC control
- Delem DA66W 2D graphical CNC control
- Delem DA66T 2D graphical touchscreen CNC control
- Delem DA69W 3D graphical CNC control
- Delem DA69T 3D graphical touchscreen CNC control
- X1 + X2, R or R1 + R2, Z or Z1 + Z2 axes
- Additional Back Gauge Finger X Axis Backgauge
- Additional Back Gauge Finger X, R Axis Backgauge
- Quick Release Tool Clamps
- Mechanical anti deflection table
- CNC motorized anti deflection table
- Brush table for front support arms
- Additional sliding front support arms
- Sheet follower support arms controlled by the CNC
- Parking area for sheet follower support arms – one per side
- Laser Angle Measuring System