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**MORGAN RUSHWORTH PBS CNC 3100.160 HYDRAULIC PRESS BRAKE 415V**

The Morgan Rushworth PBS CNC press brakes are fitted with the ESA S 640 CNC control featuring a 15" touch screen and both numerical and 2D graphical program entry. Bending can also be graphically visualised in 2D showing the machine frame, top and bottom tools, back gauge fingers and part orientation. PC based software is included and, with the control networked, can be used to load programs from the office. The PBS CNC models feature 3-axis CNC control of the left and right ram cylinders and the back gauge depth. The position of the two cylinders is fully synchronised with high precision scales on the side frames ensuring ram parallelism. 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.

All PBS CNC models are supplied with sectionalised euro style top tools and a multi vee bottom die. The range covers models from 40 tonnes through to 300 tonnes capacity with bending lengths from 1250mm up to 4100mm and can be supplied with a number of options including crowning systems and CNC controlled R axis.

## FEATURES

- ESA S 640 multi-axis CNC control with numerical and 2D graphical programming and visualisation, mounted on a 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
- Manual adjustment of back gauge height – R axis
- Manual side to side movement of back gauge fingers – Z axis
- Back gauge fingers with fine depth adjustment, adjustable laterally on a linear rail
- Euro style top tool holders with intermediates including wedges for crowning
- Sectionalised goose neck top tool and multi vee bottom die
- Bottom tool wedge 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
- Height adjustable front support arms with flip stop, adjustable laterally on a linear rail
- Dual foot switch console with emergency stop
- Electrically interlocked side guards
- Electrically interlocked rear access door

## OPTIONS

- CNC control of back gauge height – R axis
- Manual bottom tool crowning system with position counter
- CNC bottom tool crowning system
- Quick release top tool clamping system
- Additional back gauge fingers
- Additional front support arms

## TECHNICAL INFORMATION

MODEL		PBS CNC 3100.160
Bending Power	tonne	160
Bending Length (Over Tooling)	mm	3100
Bending Length (Between Frames)	mm	2550
Y Axis Approach Speed	mm/sec	100
Y Axis Bending Speed (Maximum)	mm/sec	7.7
Y Axis Return Speed	mm/sec	80
X Axis Travel	mm	750
X Axis Speed	mm/sec	350
R Axis Travel (Optional)	mm	160
R Axis Speed (Optional)	mm/sec	240
No of Back Gauge Fingers		2
No of Front Support Arms		2
Stroke	mm	260
Daylight	mm	530
Throat Depth	mm	410
Table Height	mm	890
Table Width	mm	60
Oil Capacity	litre	210
Motor Power	kW	15
Nominal Power (excluding options)	kW	19
Length	mm	3850
Width	mm	1650
Height	mm	2905
Weight	kg	9700

OTHER IMAGES

