



## PBSL Compact CNC Pressbrakes

The Morgan Rushworth PBSL 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 PBSL 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. AKAS laser tooling guards are standard and offer a vastly improved operator experience without compromising safety.

All PBSL CNC models are supplied with sectionalised euro style top tools and a multi vee bottom die and can be specified with a number of options including crowning systems and CNC controlled R axis.

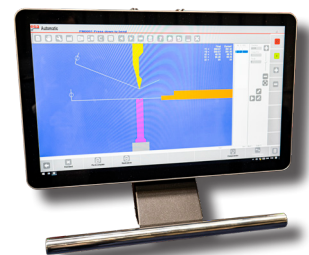


**PBSL 3100/120**



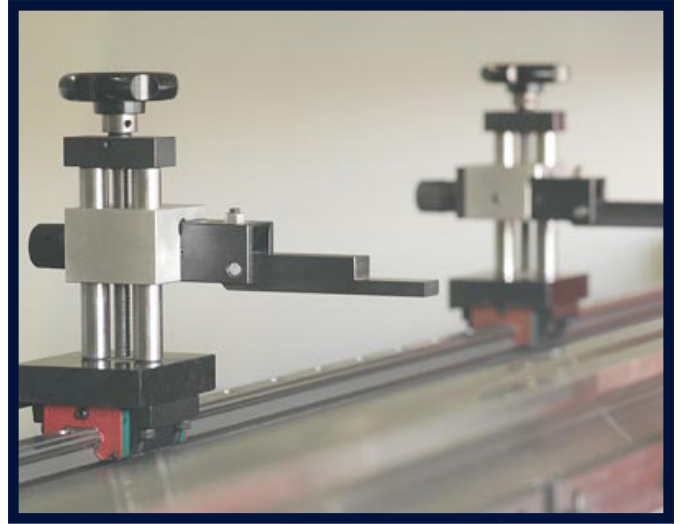
**ESA S640  
CNC  
CONTROL**

**OPTIONAL ESA  
S875 TOUCH  
SCREEN CNC  
CONTROL**

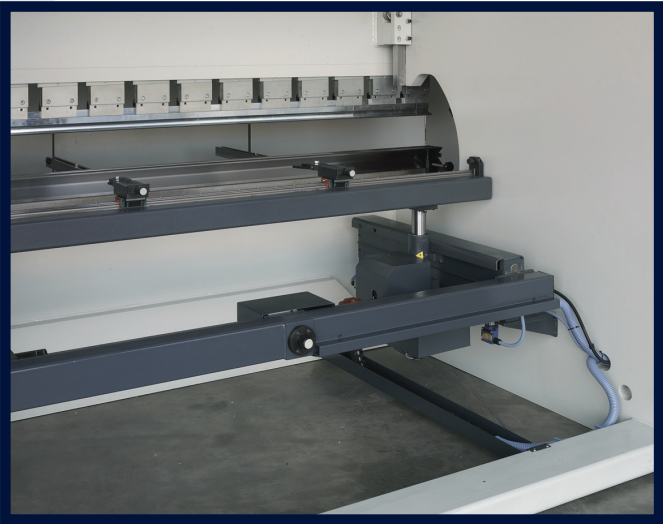




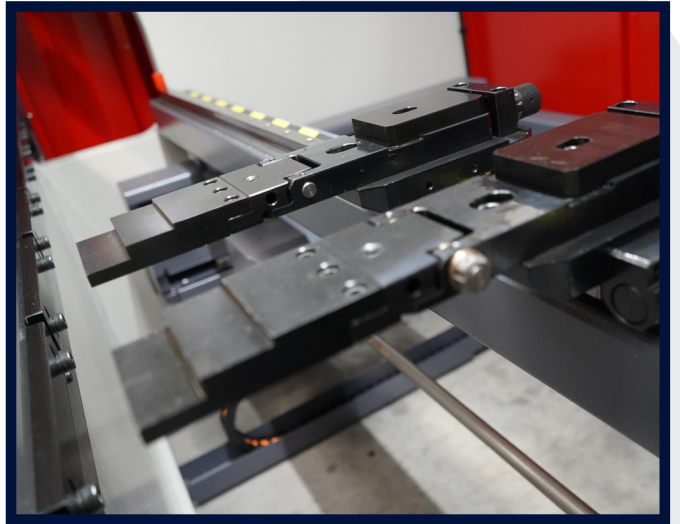
**X AXIS CNC BACKGAUGE**



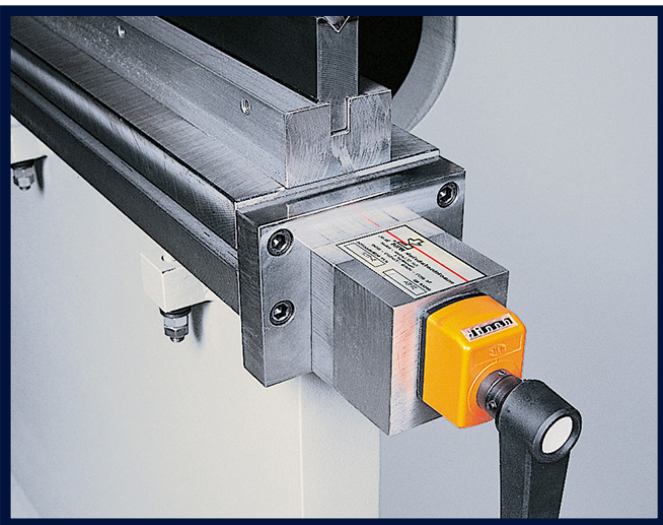
**X AXIS BACKGAUGE FINGERS**



**OPTIONAL X+R AXIS CNC BACKGAUGE**



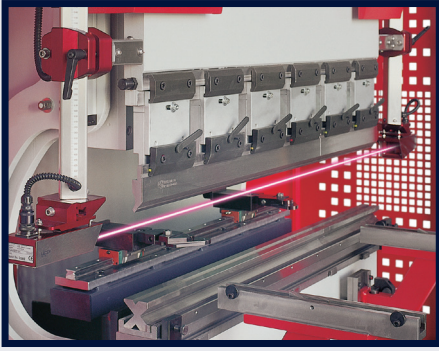
**OPTIONAL X+R AXIS BACKGAUGE FINGERS**



**OPTIONAL MANUAL BOTTOM TOOL CROWNING SYSTEM**



**CNC CONTROLLED BOTTOM TOOL CROWNING SYSTEM (OPTIONAL)**



**FRONT LASER PROTECTION SYSTEM**



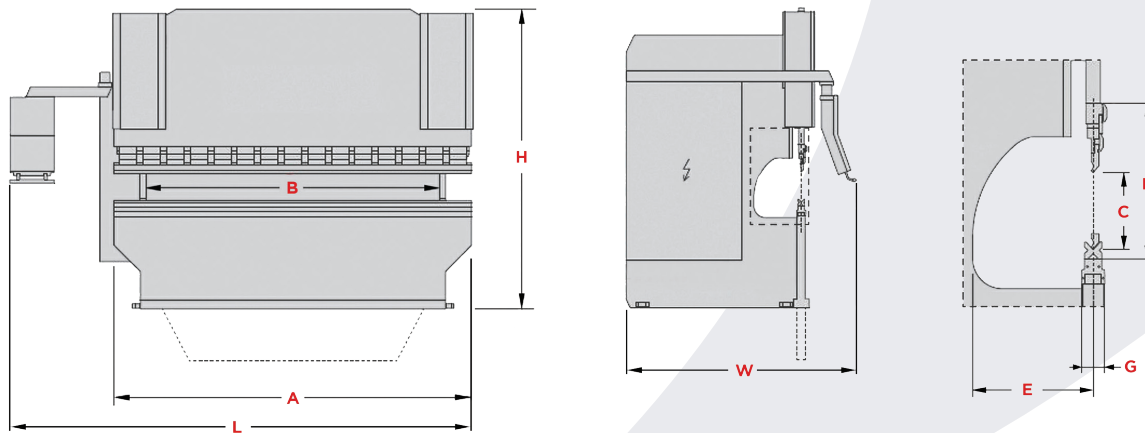
**EURO STYLE TOOLING**

## Machine Features

- ESA S640 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 wedge style intermediates
- Sectionalised goose neck top tool and multi vee bottom die
- AKAS laser tooling guards for enhanced ease of use
- High precision linear scales for measurement of the stroke depth
- Hydraulic ram travel guided in low friction slide ways
- High approach and return speeds for production bending
- Height adjustable front support arms
- Electrically interlocked side guards

## Optional Equipment

- 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 SPECIFICATIONS

MODEL	TOOLING POWER	BENDING LENGTH	DIST. BETWEEN COLUMN	Y RAPID SPEED	Y WORKING SPEED	Y RETURN SPEED	TRAVEL IN X AXIS	SPEED OF Y AXIS	TRAVEL IN R AXIS (OPTIONAL)	SPEED OF R AXIS (OPTIONAL)	NUMBER OF BACKGAUGE FINGERS	NUMBER OF SHEET SUPPORT ARMS	OIL CAPACITY	MOTOR POWER	STROKE	DAYLIGHT	THROAT DEPTH	TABLE HEIGHT	TABLE WIDTH	LENGTH	WIDTH	HEIGHT	WEIGHT
	Toime	A mm	B mm	mm/sec	mm/sec	mm/sec	mm	mm/sec	mm	mm/sec			Litre	kW	C mm	D mm	E mm	F mm	G mm	L mm	W mm	H mm	kg
PBSL CNC 3100/120	120	3100	2550	160	10	130	600	150	160	150	2	2	140	15	180	375	255	850	60	3850	1185	2250	5,500
PBSL CNC 3100/160	160	3100	2550	160	10	130	600	150	160	150	2	2	140	19	180	375	255	850	60	3850	1185	2250	6,650
PBSL CNC 3100/200	200	3100	2550	150	10	130	600	150	160	150	2	2	140	22.5	210	445	255	850	60	3850	1325	2550	7,800