



PBXS CNC Pressbrakes

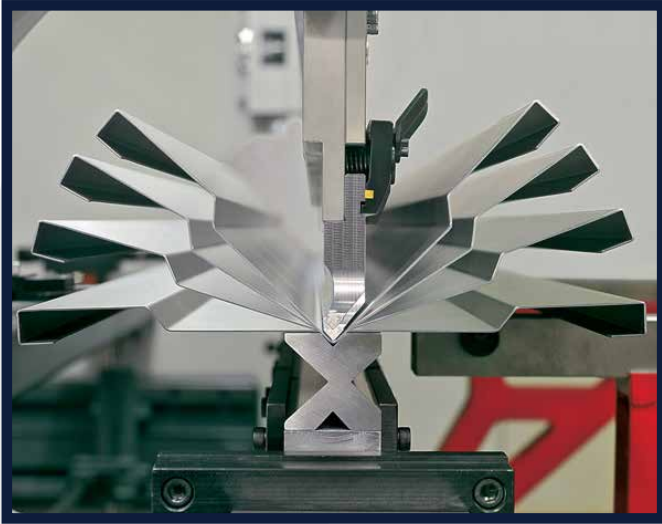
The Morgan Rushworth PBXS CNC hydraulic press brakes are fitted with the ESA S875 CNC Control featuring a 21" touch screen and both numerical and 2D graphical program entry. While data input into the CNC Control is very rapid, there is also the option of preparing the production off line on a PC with the software provided, enabling feasibility checks prior to production.



All axes are fully synchronised and accurate 0.01mm utilising proportional valve technology. Monoblock welded steel frame ensures minimum deflection under maximum load.

The range covers models from 40 tonnes through to 1000 tonnes capacity with bending lengths from 1250mm up to 8100mm in the standard design.

A comprehensive range of options are available to fully tailor the machine to requirements.



**MORGAN RUSHWORTH
PRECISION BENDING**



FRONT LASER PROTECTION SYSTEM



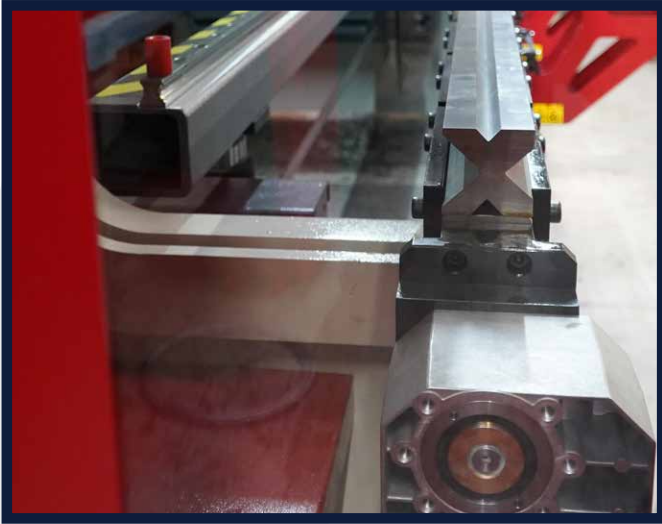
REAR VIEW

Machine Features

- ESA S875 multi-axis CNC control with numerical and 2D graphical programming and 2D or 3D visualisation, mounted on pendant arm
- Ideal for complex multi bending operations, especially where volume production with accurate repeatability is required
- Fully synchronised CNC control for left and right upper beam cylinder position - Y1 + Y2 axis
- CNC control for backgauge depth - X axis
- Manual adjustment of backgauge height - R axis
- Manual side to side adjustment of backgauge fingers - Z axis
- AKAS laser tooling guards for enhanced ease of use
- Euro style quick release top tool holders with intermediate pieces including wedges for crowning
- Sectionalised goose neck top tool and multi vee bottom die
- Strong rigid welded mono block frame able to withstand deflection under maximum load
- 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
- Hydraulic ram travel guided in low friction slideways
- 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



BACK GAUGE FINGERS



CNC CONTROLLED BOTTOM TOOL CROWNING SYSTEM (OPTIONAL)



QUICK RELEASE TOOLING



ADDITIONAL BACKGAUGE FINGERS (OPTIONAL)

Optional Equipment

- Cybelec ModEva 12S 3D graphical CNC control
- Cybelec ModEva 15S 3D graphical touchscreen CNC control
- Delem DA66T 2D graphical touchscreen CNC control
- Delem DA69T 3D graphical touchscreen CNC control
- CNC control for backgauge height - R axis
- Independent CNC control for backgauge height - R1 + R2 axis
- CNC control for side to side movement of backgauge fingers - Z1 + Z2 axis
- Independent CNC control of backgauge depth - X1 + X2 axis
- Independent CNC tower backgauge system - X1 + R1 + Z1, X2 + R2 + Z2
- Manual bottom tool crowning system
- CNC controlled bottom tool crowning system
- Hydraulic top and bottom tooling clamping system
- Additional backgauge fingers
- Additional front support arms
- Brush table for front support arms
- Sheet follower support arms controlled by the CNC Controller
- Parking area for sheet follower support arms - one per side
- Laser Angle Measuring System



**DELEM
DA66T
CONTROL
(OPTIONAL)**



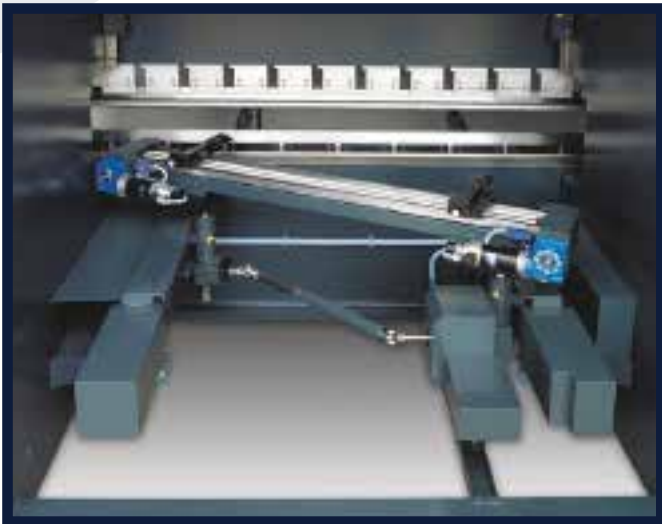
**DELEM
DA69T CNC
CONTROL
(OPTIONAL)**



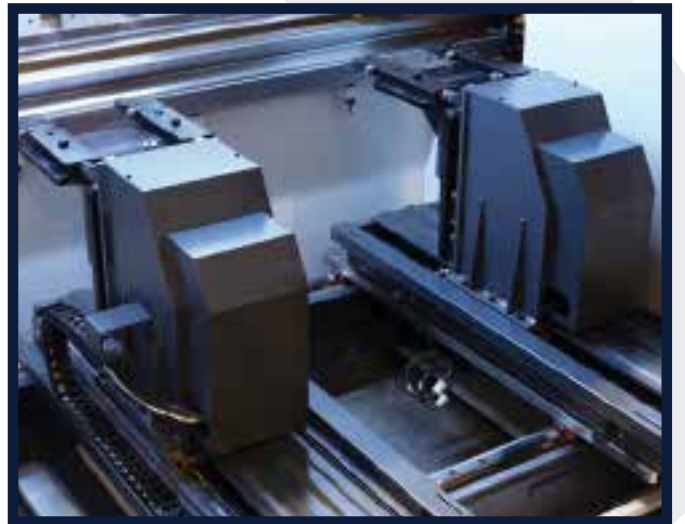
HYDRAULIC TOOL CLAMPING (OPTIONAL)



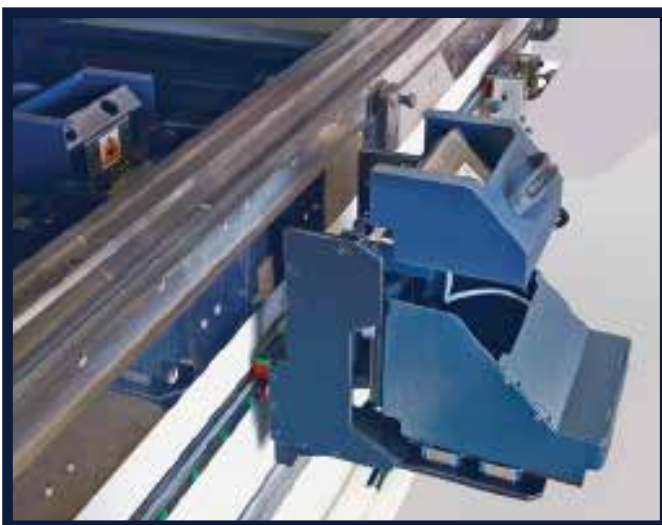
FRONT SUPPORT ARMS



X1+X2, R1+R2, Z1+Z2 CNC BACKGAUGE (OPTIONAL)



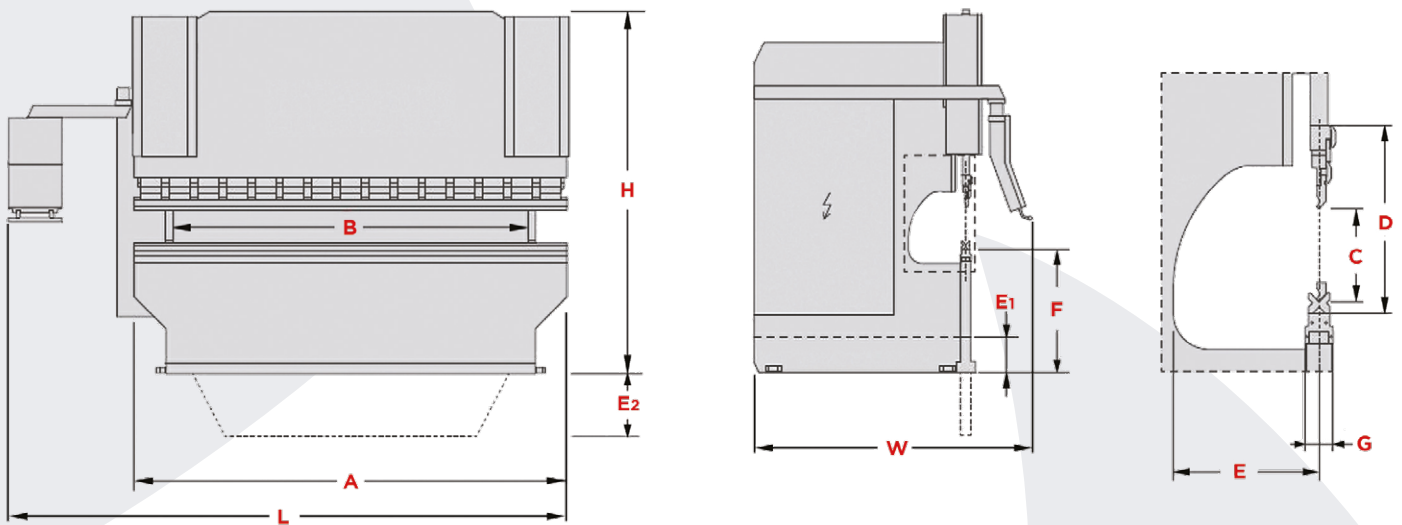
INDEPENDENT TOWER BACKGAUGE (OPTIONAL)



LASER ANGLE MEASUREMENT SYSTEM (OPTIONAL)



ESA S875 CONTROLLER



TECHNICAL SPECIFICATIONS

MODEL	STOCK CODE	BENDING POWER Tonne	BENDING LENGTH A mm	DIST. BETWEEN COLUMN B mm	Y RAPID SPEED mm/sec	Y WORKING SPEED mm/sec	Y RETURN SPEED mm/sec	TRAVEL IN X AXIS mm	SPEED OF X AXIS mm/sec	TRAVEL IN R AXIS (OPTIONAL) mm	SPEED OF R AXIS (OPTIONAL) mm/sec	NUMBER OF BACKLAGE FINGERS	NUMBER OF SHEET SUPPORT ARMS	OIL CAPACITY Litre	MOTOR POWER kW	STROKE C mm	DAYLIGHT D mm	THROAT DEPTH E mm	TABLE HEIGHT F mm	TABLE WIDTH G mm	PIT DEPTH 1 E1 mm	PIT DEPTH 2 E2 mm	LENGTH L mm	WIDTH W mm	HEIGHT H mm	WEIGHT kg
PBXS 1250/60	M5265	60	1250	1070	150	10	130	750	350	160	240	2	2	80	5.5	260	530	460	850	60	-	-	2310	1855	2610	5000
PBXS 2100/80	M5290	80	2100	1600	150	10	130	750	350	160	240	2	2	140	7.5	260	530	460	880	60	-	-	2860	1950	2595	6500
PBXS 2600/110	M5291	110	2600	2050	150	10	130	750	350	160	240	2	2	140	7.5	260	540	410	880	90	-	-	3350	1600	2605	7100
PBXS 3100/110	M5292	110	3100	2550	160	10	130	750	330	160	240	2	2	140	11	260	540	460	880	90	-	-	3810	1950	2905	8700
PBXS 3100/150	M5293	150	3100	2550	160	10	130	750	330	160	240	2	2	210	15	260	540	460	880	90	-	-	3850	1950	2905	10000
PBXS 3100/190	M5294	190	3100	2550	150	10	130	750	350	160	240	2	2	210	18.5	260	530	460	880	90	-	-	3850	1950	2905	10400
PBXS 3100/240	M5208	240	3100	2550	130	10	120	750	350	160	240	2	2	210	22	260	530	500	880	90	-	-	3850	1950	2905	11400
PBXS 3100/320	M5321	320	3100	2550	110	8	100	750	350	160	240	2	2	280	22	320	660	460	1000	380	-	-	3870	2175	3245	15500
PBXS 3100/440	M5256	440	3100	2550	80	8	70	750	350	160	240	2	2	450	30	320	575	500	1005	450	-	-	3850	2060	3400	22000
PBXS 4100/150	M5295	150	4100	3550	170	10	120	750	330	160	240	4	4	210	15	260	530	460	880	90	-	-	4830	1950	2905	12500
PBXS 4100/190	M5296	190	4100	3550	160	10	110	750	330	160	240	4	4	210	18.5	260	530	460	880	90	-	-	4830	1950	2905	12700
PBXS 4100/240	M5217	240	4100	3550	150	10	100	750	350	160	240	4	4	210	22	260	530	460	880	90	-	-	4850	1950	2905	14000
PBXS 4100/320	M5327	320	4100	3550	120	8	90	750	350	160	240	4	4	280	22	320	635	500	1000	280	-	-	4870	2175	3200	19000
PBXS 4100/440	M5219	440	4100	3550	90	8	70	750	350	160	240	4	4	450	30	320	580	500	1000	380	-	-	4830	2390	3350	27000
PBXS 6100/150	M5297	150	6100	5100	140	10	100	750	330	160	240	4	4	240	15	260	510	500	1000	90	-	-	6850	1650	2850	20000
PBXS 6100/240	M5221	240	6100	5100	140	10	100	750	330	160	240	4	4	300	22	260	500	500	1100	90	-	-	7000	2255	3090	25500
PBXS 6100/320	M5333	320	6100	5100	120	8	70	750	330	160	240	4	4	300	22	320	580	500	1185	200	-	-	7000	2550	3705	30500
PBXS 6100/380	M5223	380	6100	5100	90	8	70	750	330	160	240	4	4	450	30	320	570	500	1100	240	-	-	6850	2210	3255	35000
PBXS 6100/440	M5224	440	6100	5100	90	8	70	750	330	160	240	4	4	450	30	320	520	500	1100	280	-	-	7040	2170	3775	39500
PBXS 6100/600	M5226	600	6100	5100	80	7	70	750	330	160	240	4	4	500	37	360	620	500	1050	380	-	-	7040	2375	4240	56000