



## EXL CNC Folding Machine

The Morgan Rushworth EXL range of CNC folders are manufactured with a rotating upper beam with one straight rail and one set of high divided tools that can both be utilised in the same folding program without any manual tool change. This versatile design enables high accuracy, high consistency and high productivity as there is only one initial tool set up to carry out. This is ideal for many folding operations including rectangular panel work with return edges to the four sides. The operator sets the program, folds the two long lengths with the straight rail, the upper beam then automatically rotates and the two ends are then folded with the high divided tools, resulting on the completed panel. Each Axis is powered by servo motors, for increased durability.

The backgauge is integral to the rear support table, which is ideal for the folding of large sheets as the weight of the material is supported, resulting in a traditionally two operator job, being able to be performed with just one. The advanced 2D touch screen CNC, controls all upper beam clamping and rotating, folding beam and back gauge movements, with optional 3D touch screen to further assist the operator. Both controllers provide a view of the folded part, calculates whether the job is possible or not, the developed length and the bending sequence including whether to turn material over or around.



**EXL 3200.30**



**COMBI BEAM**



**BRUSH TABLE  
(OPTIONAL)**

## Machine Features

- Bending angle from 0 - 150 degrees
- 20 degree 1mm sharp nose clamping beam rail with 25mm clearance on one side of rotating beam
- 90mm high divided box tools on other side of rotating beam
- 10mm and 25mm wide folding beam rails
- Fast 1 metre powered backgauge integral to rear table with roller balls
- Flat lower beam with feather style backgauge fingers
- 15.6" 2D touch screen control on swinging arm for front and rear operation
- High speed and high pressure clamping
- Virtually no marking on material
- Safe edge can be achieved without tool change
- Very quiet with low energy consumption as motors only run when machine is working
- Manual folding beam adjustment
- Manual crowning system
- Front light guards barriers.

## Optional Equipment

- 3D CNC touch screen controller
- 2D and 3D offline software for PC
- Longer length back gauges with U and L shape configurations
- Squaring arm for rear backgauge table
- Stainless steel backgauge table
- Brush table to protect material
- Motorised folding beam adjustment

## TECHNICAL SPECIFICATIONS

MODEL		EXL 2050.40	EXL 2550.35	EXL 3200.30	EXL 4200.25
SKU		M2087	M2088	M2089	M2090
Bending Width	mm	2050	2550	3200	4200
Bending Thickness - Mild Steel	mm	4	3.5	3	2.5
Bending Thickness - Stainless Steel	mm	3	2.5	2	1.5
Bending Thickness - Aluminium	mm	6	5	4	3.5
Stroke Depth	mm	250 on 180°	250 on 180°	250 on 180°	250 on 180°
Back Gauge	mm	1500	1500	1500	1500
Clamping Beam Axis Speed	mm/sec	60	60	60	60
Folding Beam Axis Speed	mm/sec	85	85	85	85
Back Gauge Axis Speed	mm/sec	200	200	200	200
Clamping Beam Motor	kW	2 x 5.5	2 x 5.5	2 x 5.5	2 x 5.5
Folding Beam Motor	kW	2 x 3	2 x 3	2 x 3	2 x 3
Back Gauge Motor	kW	0.75	0.75	0.75	0.75
Length	mm	2300	2300	2300	2300
Width	mm	3750	4250	4950	5950
Height	mm	2100	2100	2100	2100
Weight	kg	5700	6300	7100	8050