



CNC Press Brake Axis Demystified: Mastering the Key to Precision Metal Fabrication



Y Axis

Y axis can be divided into Y1 axis and Y2 axis, which are respectively at the top of the two uprights.

- Y1: left cylinder full closed-loop control axis
- Y2: right cylinder full closed-loop control axis



X Axis

X axis mainly controls the forward and reverse movement of the back gauge.

- X1: left stop finger back and forth moving axis
- X2: right stop finger back and forth moving axis



R Axis

The R-axis controls the up and down movement of the back gauge and stop finger.

- R1: left stop finger up and down moving axis
- R2: right stop finger up and down moving axis



Z Axis

The Z axis controls the left and right movement of the back gauge of the press brake.

- Z1: left stop finger left and right moving axis
- Z2: right stop finger left and right moving axis



V Axis

V axis features a specific function that introduces the concept of crowning compensation. It adjusts the bed of machine, and compensates the deflection to ensure the accurate and straight bending of the whole material's length.