Automobile Door Frame Assembly Robotic Welding Solutions

Your connection to Korean manufacturing and industrial equipment
Door Frame Main Assembly Project

This project is to assemble the components of front and rear door frames and then complete the door frame assembly using CO2 and spot welding stations.
Door Frame Forming Machinery and Tooling

We use a 48-stage or 20-stage roll forming line with our customized stretch bending machine or rotary bending machine, based on the client’s product shapes. Our quick-tool-change dies, pictured below, are included with the machines.

Tooling for Stretch Bending Machine

Tooling for Rotary Bending Machine

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Tooling for Door Frame Component Sub-Assembly Station

Tooling for Corner Bending Machine

Robotic Piercing Machine Solution
Front door frame inner and outer spot welding station
Door Frame Component Sub-Assembly Station

Front door frame inner and outer spot welding station for the components circled in red (left)
The saw cutting machine is used to cut the B-pillar corners in order to weld the B-pillar to the upper part of the front door frame.
Front Door Frame Upper B-Pillar Saw Cutting

Tooling for Tipped Saw Cutting Machine
Front Door Frame Upper B-Pillar Robot Welding Station
Tooling for B-Pillar Robot Welding Station

Twist Machine For B-Pillar

Stud Welding Machine For B-Pillar

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Quadrant Channel Assembly Welding Station
Tooling for Quadrant Channel Assembly Welding Station

Tooling for Quadrant Spot Welding Machine
Tooling for Quadrant Channel Assembly Welding Station

Upper & Vertical and Quadrant Belt Assembly CO2 Spot Welding Machine

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Belt Low-Heat Spot Welding and Spot Welding Station
Tooling for Belt Spot Welding and Spot Welding Station

Vertical Spot Welding Machine
Jigs and Fixtures

Belt Spot Welding Machine
Jigs and Fixtures

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Belt Low-Heat Spot Welding and Spot Welding Station

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