

BOWYER

ENGINEERING

AUTOMATION APPLICATIONS

Design, project management, manufacture, assembly and on-site commissioning of special purpose equipment for a wide range of automation applications, including robotic welding, fixturing, end-of-arm tooling and stand-alone automation projects for a diverse range of manufacturing and assembly.

Bowyer Engineering has developed particular expertise in the design and manufacture of tooling for use in conjunction with robotic manipulators. Once predominately for use in the Automotive Industry, we now provide solutions to a wide range of manufacturers who are seeking to automate their production facilities.

Most commonly, this involves the design and manufacture of fixturing to locate and clamp component parts whilst allowing robot access to MIG, TIG or Spot weld the components. We also supply purpose designed end-of-arm tooling that allow robotic manipulation for a wide variety of applications from press-tending and machine loading to sack grippers, pallet lifters and box handling and packing.

At Bowyer Engineering, in addition to meeting relatively standard requirements, we enjoy the challenge of difficult applications where novel or unusual solutions are required for success.

We are able to work with Customer drawings in all the popular formats, in both 2D or 3D, and use Solidworks 3D CAD package to design the tooling, along with 'e-drawings' to communicate the design process with our Customers. We provide full documentation and prompt Customer Support throughout the life of the tooling.

We have a 2.5m 'FARO', portable CMM to ensure initial accuracy of our tooling, and assist with on-site commissioning.

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