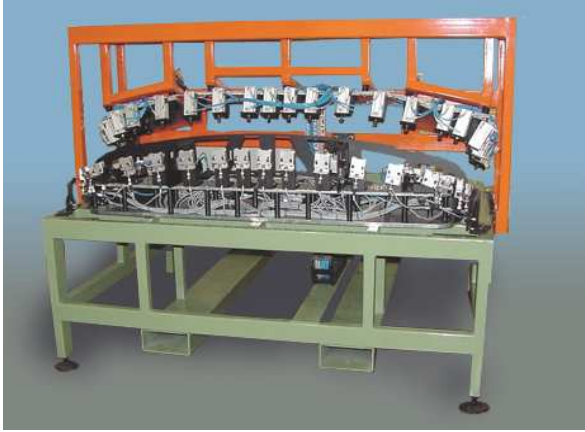


Bumper Assembly & Checking fixtures

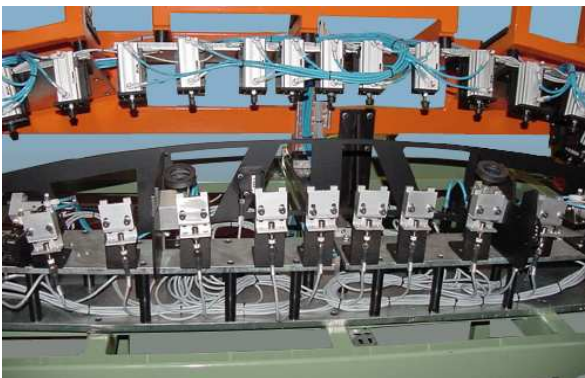
Automatic spoiler press and clip detection rig



There have now been a number of fixtures designed by TQC specifically for the automatic assembly of large panel automotive parts.

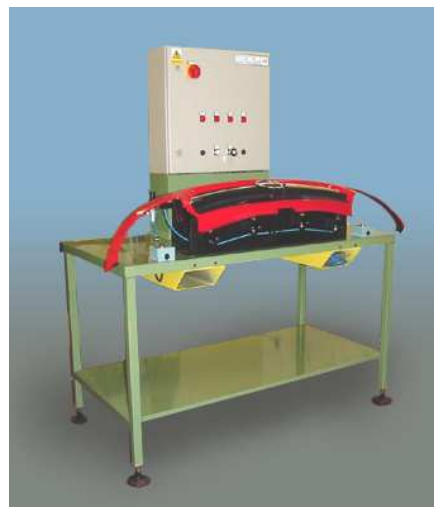
The benefit of these machines is that they do not contact the 'A' or visible face of the panel, but still allow quick and easy access to assemble various optional extras of the panel by hand.

Assembly of this specific bumper required a number of clips to be automatically pressed into the part. The machine ensures all the separate bumper parts are present, confirms the position of the clips, then proceeds to correctly press all the parts together quickly and efficiently, providing a correctly assembled bumper in a fraction of the time taken in a manual operation. The final secure position of the clips are confirmed automatically and the bumper is released



Manual grill assembly stations

TQC have also designed fixtures for the finishing of different grill sub-assemblies, incorporating automatic part detection and a hotplate welder. The main grill moulding is secured when the operator energises the vacuum, this then allows other components such as chrome strips, badges and light clusters to be fitted and tested, whilst still in the fixture. Correctly assembled grills are then automatically released



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