

## Bumper Punching Machine & Systems



TQC have designed and manufactured a number of bumper punch systems varying in complexity.

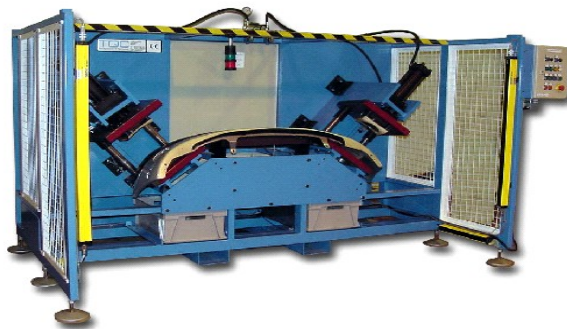
Generally, bumpers are manually loaded and unloaded through a light guard and then automatically punched.

Any waste material is gathered via chutes feeding bins outside the guarded areas.

The punches are actuated using hydraulics or pneumatics or a combination of both

Holes punched include -

- Fog Light Holes
- PDC Holes
- Body Fixing Holes
- Numberplate Plinth Holes



Punching operations can be combined with manual or automated assembly operation within a single machine.

A typical example would be the assembly of a bumper requires the punching of holes for PDC sensors following by the fitting and checking of associated brackets and sensors.

