



## Assured Bearing & Crimp ring insertion

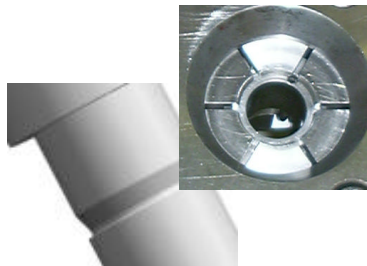


For this safety critical steering gear assembly, the bearing was assembled to the pinion shaft on a Hare AM300 hydro-pneumatic press. Incorporated in the tool were a 2 ton load cell and a linear variable displacement transducer (LVDT), the assembly load and final position were then monitored using a Decade 260 load monitor unit.

### Assured Assembly

The assembly consisted of the shaft, bearing and crimp ring. Prior to the assembly cycle starting, the correct presence of all parts was confirmed by sensors in the tooling. The components were loaded outside the pressing area and pneumatically drawn into the press when the cycle is initiated.

Following the successful assembly of the bearing, oil is released from a hydraulic chamber in the top tool. This allows the outer pins to press down on the cam plate, in turn driving wedges forward, compressing the ring to produce the final form. The ring will only be compressed if the bearing assembly is good. If the bearing assembly load is too high or too low the assembly will remain trapped in the press until a reset sequence is carried out by an authorised person, preventing bad assemblies carrying on along the assembly process.



### Design Solution

Utilising the flexibility of the Hare press design, Hare Tooling eliminate defect assemblies to ensure that only perfect assemblies can carry on to be fitted into vehicles through 100% in process inspection.

### Contact us

If you would like a copy of our Intec brochure or discuss similar applications where Intec could benefit your processes please-

Call 0(044) 1242 512185 or Fax 0(044) 1242 224086 or

e-mail your enquiry to: - [info@hare-tooling.co.uk](mailto:info@hare-tooling.co.uk)