

# Applications

## ■ PROBLEM

A well-known car manufacturer needed to automate their seat testing procedure to achieve a reliable solution that was more cost-effective than electrical or hydraulic alternatives.

## Bottomless flexibility with automation

## ■ SOLUTION

Any seat model can be loaded onto the test plate which travels along the X and Y axis powered by two Origa rodless cylinders. A third actuator is built into the vertical gantry facing the test plate; this positions the pneumatically operated test arm.

The whole system, which runs from 10,000 to 15,000 cycles, is controlled by a single PLC allowing the operator to select any number of movements within the testing process.

## ■ KEY BENEFITS

The rodless cylinders provide a compact and integrally strong solution integrated into the test rig itself: this achieves a smaller footprint and reduces engineering costs.

Although highly flexible, machine operation is straightforward and maintenance is low, especially compared to other forms of automation.



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## ■ TECHNICAL SUMMARY

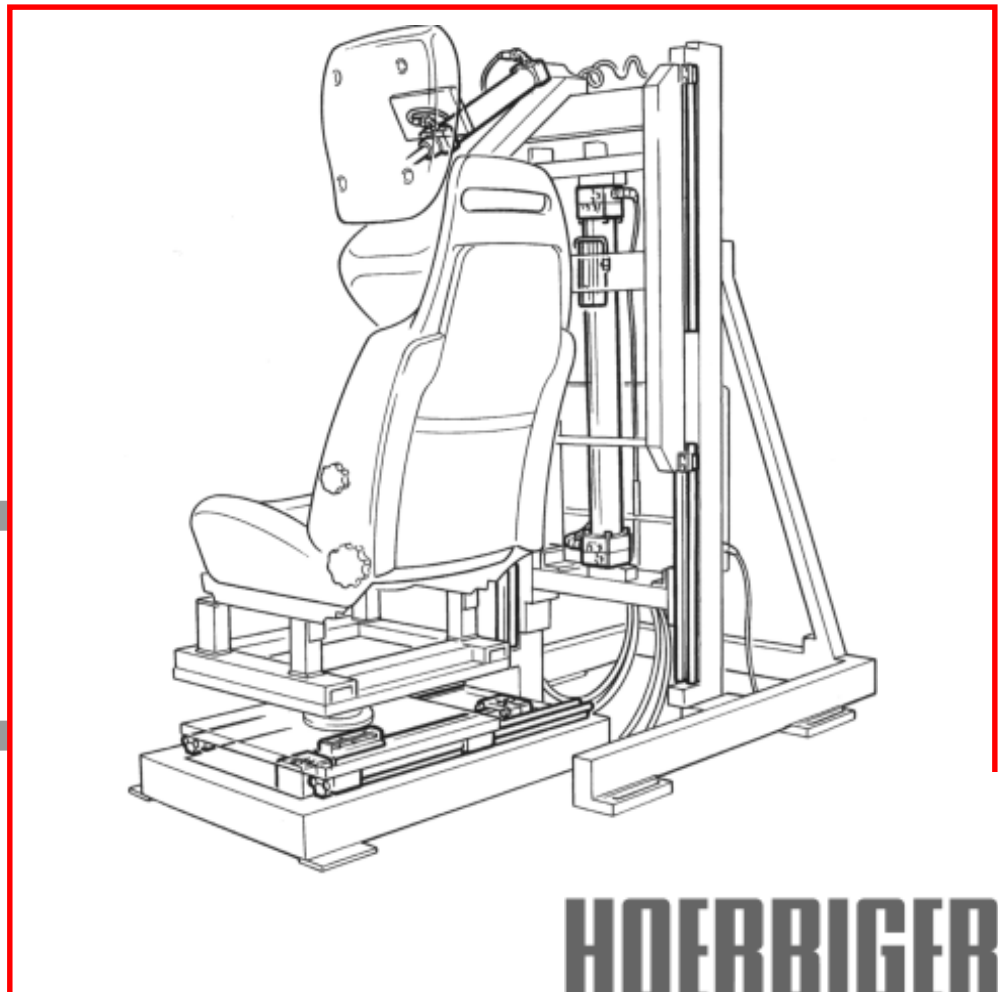
Two P120 series rodless cylinders power the test rig, supported by Guideline linear guides.

## ■ CUSTOMER ENDORSEMENT

*“Using Hoerbiger- Origa gives us a very flexible automation solution, with reduced engineering costs and simpler operation.”*

**Bottomless flexibility with automation**

Component and System Test Engineer



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