

MECHANIC & AUTOMATION SYSTEM DESIGN

SIBERNETIK with her experienced staff in custom machinery sector has completed many projects in cooperation with the leading companies of automotive industry.

Our dynamic staff works in a perfect harmony with our customers from the beginning of a project for the entire technological life of the product.

We intend to use the latest production and automation techniques in all the projects we carry on, in order to meet the demands of our customers.

This document describes the technical characteristics of Steering Column Test

Station designed and produced by

SIBERNETIK



Steering Column Test Station **TS**

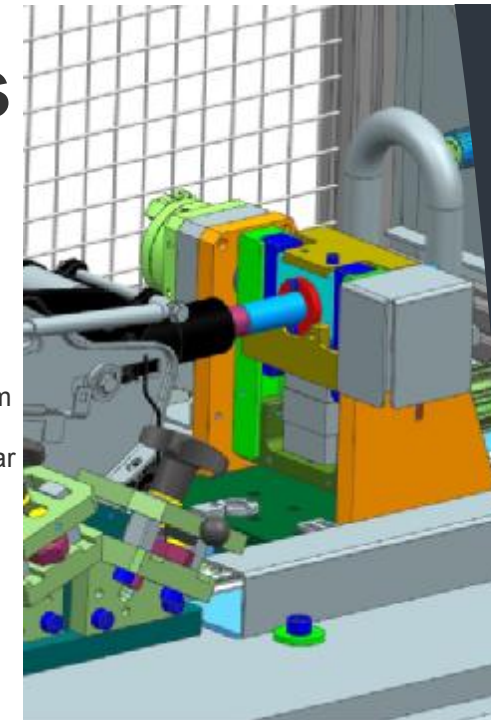
special
designs to
meet
customer
demands



customized test applications

USES TECHNOLOGY RESOURCES THAT YOU NEED IN YOUR BUSINESS

- ✓ Operator manually loads the work piece and locks the mechanism body to the fixture,
- ✓ Operator fix the both ends of the steering column manually,
- ✓ Operator pushes "Start Test" button from control panel,
- ✓ Steering Column "Backlash Test" is done and Backlash value recorded,
- ✓ Steering Column "Telescopic Adjustment Test" is done and maximum effort and mechanism stroke is recorded,
- ✓ Steering Column "Tilt Adjustment Test" is done and maximum effort and mechanism angular stroke is recorded,
- ✓ Operator unfix the both ends of the Steering Column manually,
- ✓ Operator unloads the Steering Column manually,



CUSTOMARY SOLUTIONS
 Customary solutions are developed that will meet your demands according to your fabrication standards

SPECIAL SOLUTIONS IN THIS PROJECT

- ✓ Backlash Value Detection,
- ✓ Telescopic Adjustment Test;
 - Load Control,
 - Stroke Control,
- ✓ Tilt Adjustment Test;
 - Load Control,
 - Stroke Control,
- ✓ Instantaneous Load Control,
- ✓ Instantaneous Distance Control,
- ✓ Instantaneous Control of Test Parameters,
- ✓ Parametric HMI Application for Process Prescribing System,
- ✓ Test Results Stored;
 - Backlash Value,
 - Telescopic & Tilt Adjustment;
 - Stroke Values,
 - Maximum Load Values,
 - Mechanism Lock Conformity Control,

100% quality control in your business

PROJECT MANAGEMENT

System requirements are classified according to the following items,

- Fabrication Conditions,
- PLC
- HMI
- Servo System
- Nutrunner
- Synoptic
- Safety

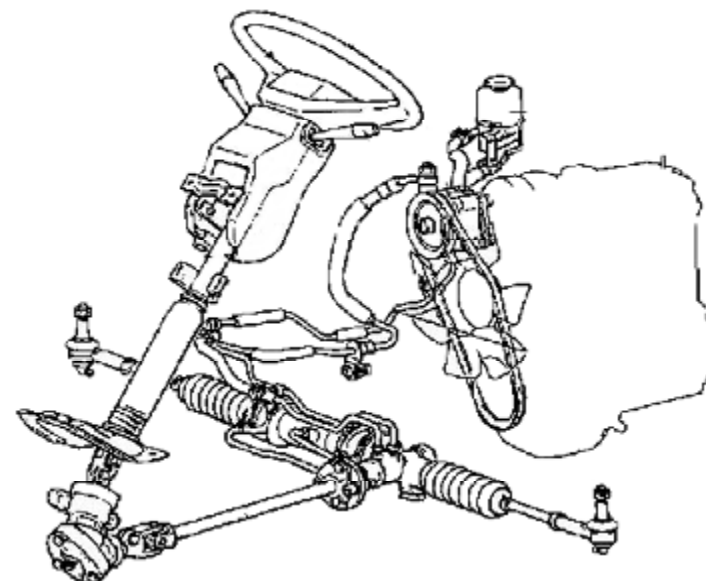
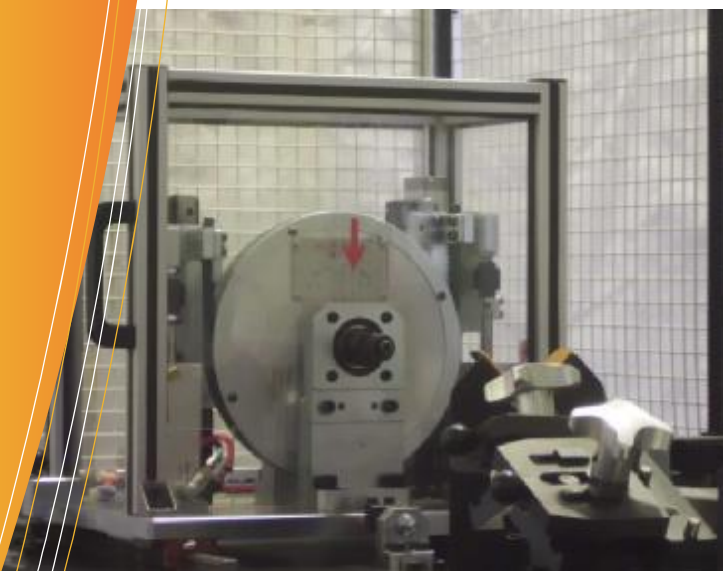
PROJECT REALIZATION

Mechanic and automation system realizations run together in great harmony;

- Fabrication Conditions,
- Lay-Out
- Mechanic System
- Hydraulic System
- Pneumatic System
- Ergonomics
- Safety



3D CAD DESIGN
 Systems are designed, using registered 3D CAD softwares on professional workstations



INNOVATIVE SOLUTIONS
 One of the best solutions is applied after all alternatives are offered and discussed in cooperation