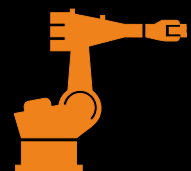


**New Product
Development**



Occubot VI

Occubot VI
Force/Torque-controlled seat durability test system



KUKA

WORKING IDEAS

SYSTEM COMPONENTS

With its 6-axis KUKA robot, the Occubot system offers the highest degree of flexibility and precision.

KUKA Robot KR 150/KR 180/KR 210

for payloads up to 210 kg



KUKA Control Panel KCP

- single unit for all operating functions:
 - hand-held programming unit
 - operator panel for production
- 8" color graphic display
- 6D mouse for easy teaching



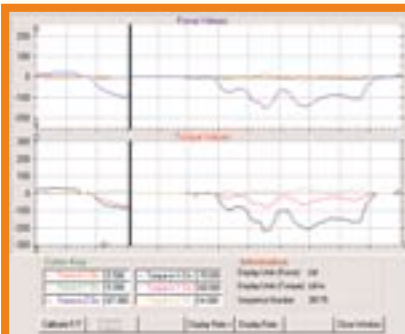
„OccuForm“ Dummy

Realistic dummy for realistic simulations.



KUKA Robot Controller KR C2

- based on standard PC technology
- MS Windows operating system
- Ethernet interface



Occubot VI Software

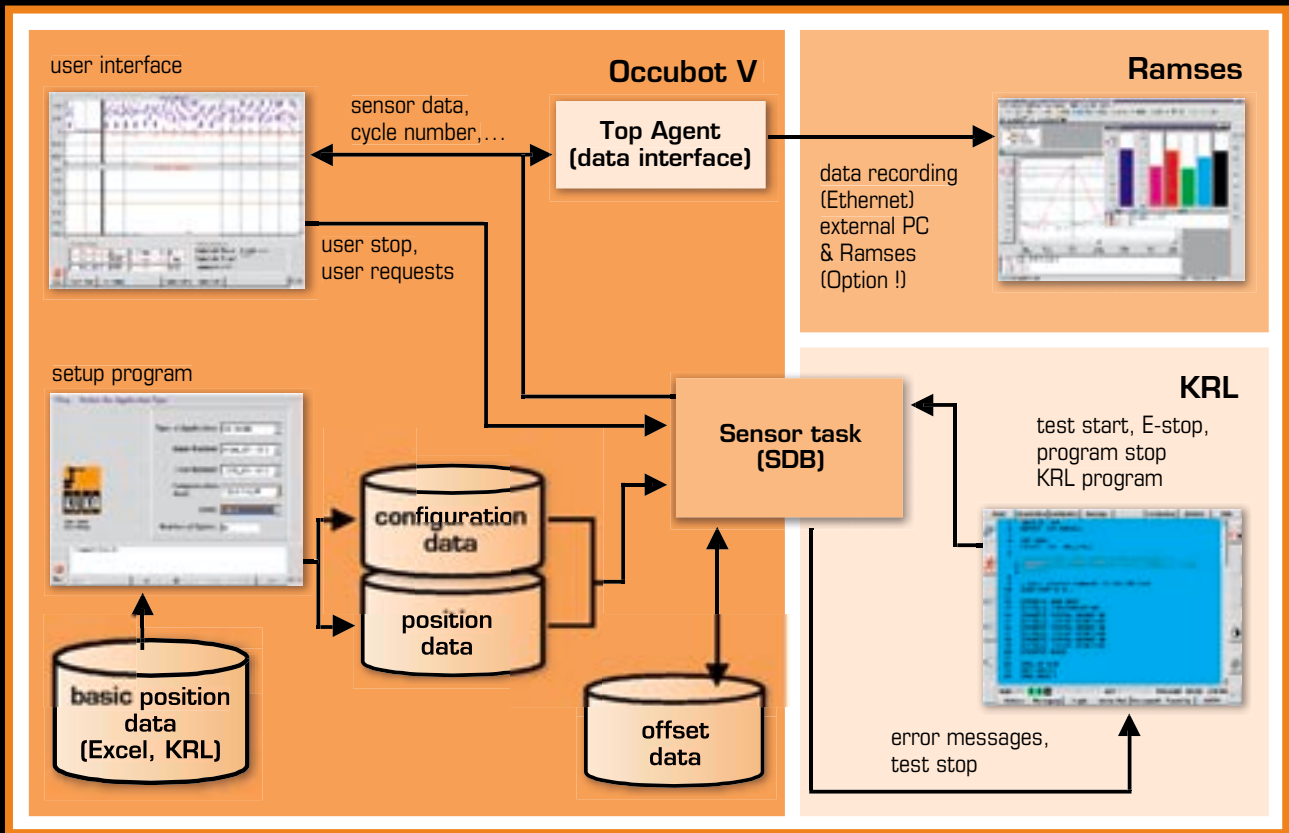
- system and application software for all Occubot VI tests
- includes StripChart, ToolBase Editor for setting parameters (sinusoidal test or other functions), Options screen, etc.
- familiar MS Windows-specific features for easier operation

Force/Torque Sensor

- mounted on the robot flange
- measures in 6 dimensions
- range: 2,500 N; 400 Nm
- includes Sensor Control Board (integrated into the KUKA robot controller)

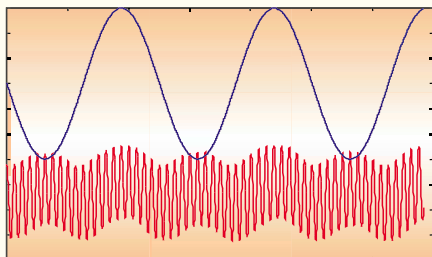


SOFTWARE ARCHITECTURE



SYSTEM PROPERTIES

- Continuous adaptation of forces and torques (in every cycle) corresponding to the wear of the test object
- Simple setting of parameters via special interfaces for all types of durability test
- Ethernet interface to the external data logging system "Ramses" for saving all the relevant test data needed for extended test evaluations as well as for generating test protocols (option)
- Many more process-specific features, such as an editor for easy base coordinate system definition, "Search and Hold" functionality to maintain constant forces, static weight compensation, programmable test stops, running of multiple test objects, etc.



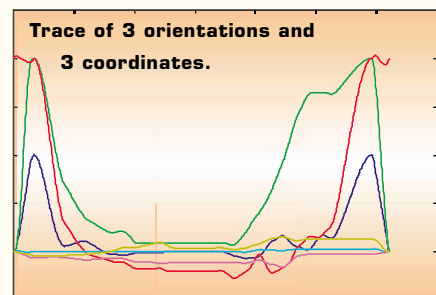
Trace of the orientation and the z coordinate.

Capable of executing all types of sinusoidal oscillation:

Frequency, amplitude and center point can be adjusted by the operator in all 6 Cartesian dimensions.

Any given definable movement:

Positions are defined along with a time stamp. Using spline curves, the robot then executes a precisely timed sequence to move to each of these positions.



Trace of 3 orientations and 3 coordinates.

CUSTOMER SUPPORT FOR OCCUBOT

In addition to the robot system itself, we also offer a range of essential services designed to make your application even more successful. These services include, among others, our 24-hour hotline and special service agreements.

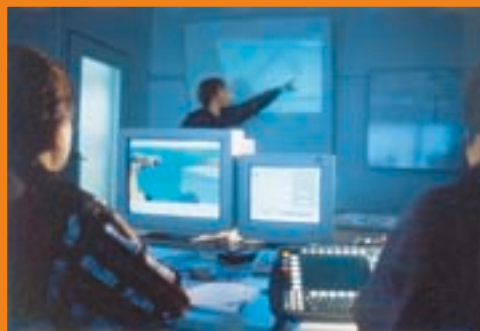


KUKA Technical Support is there to ensure that your projects run smoothly, from the planning phase through to production. Our technicians concentrate on your specific requirements and optimize the standard product to meet your demands.

Where the availability of your robots is concerned, with KUKA you are in good hands. From programming and system optimization to maintenance and immediate assistance – our KUKA robot specialists are at your disposal. Our qualified hotline is available round the clock to deal with all your robot-related questions!



KUKA robots can do anything – if you know how to use them. It is for this reason that we not only produce state-of-the-art technology, but also set quality standards in the field of training. We naturally offer an extensive seminar program tailored to the requirements of a range of different target groups.



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WORKING IDEAS