

Press Message

**New force and pressure measurement system
PROBms guarantees the standard-compliant
safety of human robot collaboration (HRC) - Safe
rental for HRC!**

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Ostfildern, 10.04.2017 - **With the new rental-based force and pressure measurement system PROBms Pilz now offers a complete package for validation of human-robot collaborations (HRC) in accordance with ISO/TS 15066. So the limit values for force or pressure of the robot movement, as specified by the ISO/TS, can now be measured precisely and therefore validated using PROBms. User software and product training complete the overall package. The worldwide rental concept guarantees that users always have an up-to-date measurement system at their disposal. So PROBms ensures greater productivity and safety on HRC applications.**

PROBms is suitable for all HRC applications in which humans and robots share a workspace, in accordance with ISO/TS 15066. These include pick & place applications in the automotive and electronics industry, for example.

Rent rather than buy for even greater safety

The force and pressure measurement system PROBms is available from Pilz worldwide on a rental basis. The rental concept includes maintenance, calibration and regular updates, so that users always have access to a fully functional, state-of-the-art measurement system. The new measurements that are needed when an HRC process is changed can be carried out independently at any time. That increases the availability of robot applications, as well as the productivity of such applications.

Comprehensive, carefree package for safe HRC

In addition to the actual measurement device PROBmdf, the force and pressure measurement system PROBms also contains the necessary pressure indicating films, the scanner, nine springs with different force constants to recreate the various body regions and software to operate the measurement device and record the measurements. The set also includes a 1-day product training course and a comprehensive after sales package including maintenance, calibration and regular software updates.

Standard-compliant "collisions" with PROBms

For HRC, the technical specification ISO/TS 15066 specifies a force and pressure measurement for the robot movement.

The TS provides limiting values for each part of the body in the event of a collision between human and machine. If the application remains within these limits during contact between human and robot, it conforms to the standard. The new force and pressure measurement system means that for the first time these values can be recorded precisely, suitable for industrial use, and can be taken into consideration when setting up HRC applications. This significantly increases safety for those operating such applications. Pilz is exhibiting in Hall 9, Stand D17. Further information about Pilz's presence at the exhibition at: www.pilz.com/de-DE/hannover-messe



Caption: The new force and pressure measurement system PROBms from Pilz is used to demonstrate that the safety requirements comply with the applicable standards for HRC, in this case in accordance with ISO/TS 15066.

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