



◆ **Teconsult Precision Robotics (2006-05-21)**

■ **RobotCalibration 'ROSY'**

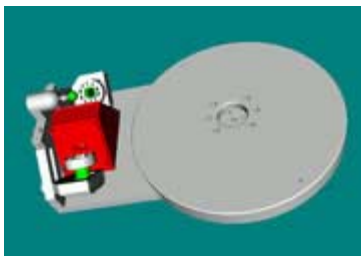
The **accuracy** of **pose** of industrial robots often is unsatisfactory for special applications. Particularly in connection with **off-line programming**, **exchangeability** and **high precision tasks** problems may occur which can be very time-consuming and costly to solve. Therefore the calibration system **ROSY** (Robot Optimization SYstem) has been developed in order to increase robot accuracy.



**ROSY** enables the accuracy of pose to be improved for industrial robots up to the range of repeatability of pose. For this purpose the robot is first measured with a calibration ball and cameras, and then its kinematic errors and the resulting correction values are calculated. Finally the corresponding parameters of the **control software** or the **user program** are changed appropriately. The whole process can be accomplished easily and is usually finished in less than an hour. This way identical and highly accurate robot cells can be created, onto which off-line generated user programs may simply be transferred. Thus also **process security** of an application can be improved significantly.



ROSY Calibration System



Measurement and calibration

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