

KUKA

KUKA Aerospace Solutions

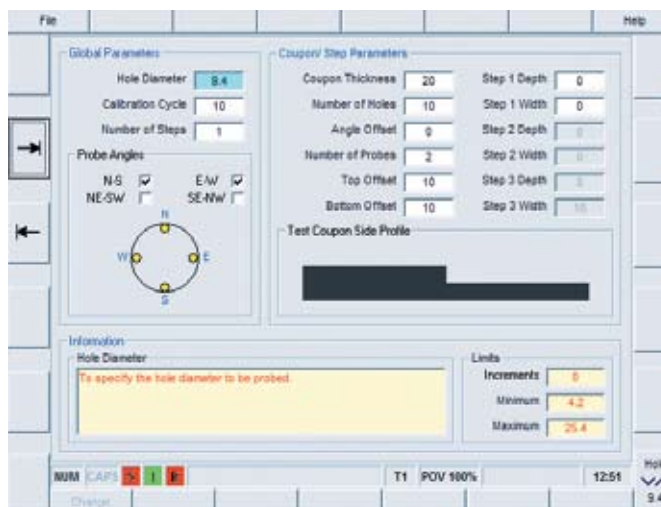
KUKA ROBO INSPECT



■ **KUKA ROBO INSPECT**
INSPECTION OF DRILLED
HOLE DIAMETERS

The system uses an industrial robot to provide the automated inspection of holes drilled in aluminium or composite test coupons. The robot is equipped with Smart Plugs mounted on the robot wrist which are able to accurately measure and record hole diameters.

The coupon to be processed is manually loaded into the dedicated fixture and the relevant smart plug is attached to the robot wrist. A high resolution camera system then takes an image of the positions of all of the drilled holes and relays the positions back to the robot controller. The robot then drives to each hole position in turn, inserts the probe and triggers a reading which is recorded in an Excel document. Freely selectable parameters on the control panel allow the robot to take further readings at different angles and heights within each hole.



TECHNICAL DATA	
Hole Diameter Range:	4.185 mm - 25.43 mm
Measured Data Output:	Microsoft Excel Format
Minimum Stack:	10 mm
Maximum Stack:	200 mm
Probe Positions:	4, N-S, E-W, NE-SW, SE-NW
Foot Print:	2.5 m x 1.5 m
Price:	On Request

COMPONENTS	BASIC SCOPE	OPTIONS
Industrial Robot	■	
High Resolution Camera Pack	■	
KUKA Vision Software	■	
High Frequency Lighting	■	
Smart Plugs and Associated Software	■	
Force Torque Control Unit and Software	■	
Base Frame and Safety Guarding	■	
PLC (Siemens S7 or others)	■	■
Controls Comms (Profibus, Ethernet etc)	■	■
Remote Diagnostics		■
Web Camera		■

Specifications regarding the characteristics and usability of the products do not constitute a warranty of properties. They are intended to serve informative purposes only. Some items of equipment depicted in the illustrations are optional, and are not included in the standard scope of supply. Solely the respective contract of sale shall be binding in respect of the extent of our supplies.

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