



OKOndt SmartScan Aircraft Wheel Inspection System

Automated Eddy Current System for 100% Inspection of Aircraft Wheels

The Cutting Edge of Eddy Current Wheel Testing

The OKOndt SmartScan FA is a high quality, professionally designed, easy-to-use automated Eddy Current Wheel Inspection System for inspection of aircraft main and nose wheels. Wheel compatibility has been confirmed for various manufacturers including Messier-Bugatti, Goodrich, Honeywell, Meggit and more. The system provides automated testing in compliance with ISO 15548-1.

Click Here for Demonstration Video



Key Benefits:

- 100% Automated Inspection of Wheel Halves
- Handles wheels up to 35" OD / 8" ID
- Complete testing of wheel tubewell, bead seat and flange
- Compact Design
- Low maintenance – built with high-quality off-the-shelf components
- Simple and User-Friendly Controls and Software
- Quick User Setup and Inspection – Save and load inspection setups for each wheel
- Automated performance verification
- Domestic and Global Service and Support



Features:

- Dual control - system can be controlled from the control panel or PC software interface
- Manual and automatic stop on defects
- Return to defect function
- Wheel inspection in either "flange up" or "flange down" positions
- Automatic wheel hub grip mechanism – locking pins position and lock wheels in place for testing
- Automated performance verification – the probe scans the reference block before and after each test and records the results
- Remote "pause" switch allows for rapid stop and restart – ideal for quickly locating and manually confirming indications
- Test reports are automatically generated after each inspection
- Lemo 00 and Lemo 12 (reflection and bridge) connectors located on front of control panel for manual inspection
- Ethernet connectivity – connect to local network for file storage and backup
- Large high resolution color display for main controls plus secondary color monitor with camera for overhead close-up view of wheel position and locking

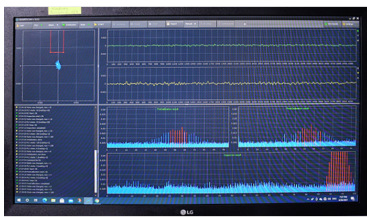
- Eddy current technology supported by the built-in state-of-the-art EddyCon D universal multi-channel Eddy Current Flaw Detector



SmartScan FA

The OKOndt SmartScan FA provides fully automated wheel inspection with storage of inspection results, database creation and more using the included PC and Eddycon D Flaw Detector

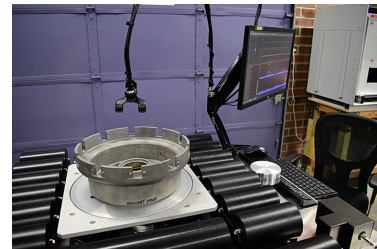
[Learn More about the Eddycon D Flaw Detector](#)



Automated Performance Verification



Fully Featured Control Panel with Pause Button



100% Automated Inspection of Wheel Halves

Technical Specifications

Smartscan FA Specifications

| Specification | Smartscan FA |
|---------------------------------------|--|
| System Type | Fully Automated |
| Overall Dimensions | 47" x 31" x 39" (1200 x 800 x 1000 mm) |
| Weight | No more than 772 lbs (350 kg) |
| Flaw Detector | Eddycon D |
| ECP Type | Pencil probe type with a cylindrical head. Frequency — 100 kHz, 200 kHz, 500 kHz ECP diameter — 15/64" (6 mm) Other standard ECP types — on request |
| Compatible Wheel Outer Diameter | Minimum: 7.5" (190 mm) / Maximum: 35" (889 mm) |
| Compatible Wheel Inner Diameter | Minimum: 1.57" (40 mm) / Maximum: 8" (200 mm) |
| Max. System Load | 330 lbs (150 kg) |
| Inspection Helix | Adjustable from .004" to .08" (from 0.1 to 2 mm) |
| Inspection Area | Adaptive tracking of the wheel profile surface |
| ECP Vertical Movement | 17 in. (430 mm) |
| Rotation Speed | 10-120 rpm |
| Inspection Speed | up to 75 fps (23 m/s) |
| Alarms | Visual and Audible |
| Power Supply | 110-240 V, 50/60 Hz |
| Data Recording and Storage | Yes (PC hard drive, database) |
| Manual Inspection | Yes - Lemo 00 and Lemo 12 (reflection and bridge) connectors |
| Remote Pause Button | Yes |
| Wheel Position | Flange up/Flange down |
| Automatic Reference Block Calibration | Yes |
| Automatic Stop on Defect | Yes |
| Turntable | Rubber/plastic coated rolls |
| Control Panel | Built-in |

| | |
|------------------------|---|
| Operation Modes | Block, Manual (with automatic reference block calibration), Stop on defect, Automated |
| Ports | 3 – USB ports, HDMI or Display port, Ethernet port |
| PC Computer Set | Wireless keyboard and mouse, monitor, system unit, special purpose software |
| Adapter Set | For wheels without hubs PN: C20626200 (SAFRAN), PN: 3-1674 (GOODRICH) |
| Warranty | 1 year from date of delivery |

Standard System Includes:



- Table (frame) with a tray for wheels Wheel hub grip mechanism
- Wheel lifting / lowering mechanism
- Wheel rotating mechanism
- Mechanism for ECP movement in horizontal and vertical planes Support for the reference block
- System control panel
- Swing Arm with large color display
- Secondary color display with camera
- System documentation including electrical and mechanical schematics and certification
- Crating and shipping to nearest airport
- OKOndt guarantees after-sales support for a minimum of 10 years in service

Kit Includes

SmartScan Kit Includes

| No. | Item | Qty. |
|-----|--|--------|
| 1 | The eddy current tester "SMARTSCAN-FA"(with calibration block, keyboard, mouse, minimum 21" high resolution monitor with swing arm mount, secondary display with camera mount and semi-flexible arm; control analysis software (settings program, testing program, viewing program) | 1 set |
| 2 | Eddycon D eddy current flaw detector – built-in | 1 pc |
| 3 | Connecting cable. Lemo 00 – BNC (length – 2.5 m) | 2 pcs |
| 4 | Wheel hub adapters | 3 sets |
| 5 | Adapter for wheel control without hub. p/n C20626200 (SAFRAN), p/n 3-1674 (GOODRICH) | 1 pc |
| 6 | Spacer (washer) for wheels with protruding locks | 1 pc |
| 7 | Printer for inspection result output | 1 pc |
| 8 | Eddy current probe 200 kHz (SU200K6D-380SSh) | 3 pcs |
| 9 | Technical Materials: <ul style="list-style-type: none"> • Operator Manual; • Maintenance Manual; • Operator and Software Manual (USB-flash card); • Software Installation Manual; Other technical articles (Schematics, catalogs, drawings, brochures, etc.) | 1 set |
| 10 | Certificates | 1 set |
| 11 | Spare parts (Inductive sensors SIEA, Inductive sensors SIES, Proximity sensors) | 1 set |

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