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RIB 2000 NG

Next-Generation Gun Barrel Inspection System

Defense

# Gun Barrel Inspection System

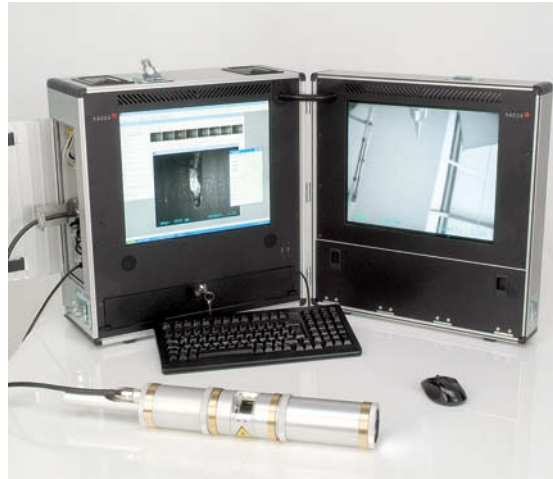
## for Wear Inspection and Condition Assessment

The RIB 2000 NG measuring and examination system supports military users with quality control and wear inspection on the interior surfaces of gun barrels. Its rugged, long life cycle design allows use in the field or shop.

The RIB 2000 NG system can be used for inspecting wear resulting from actual use. This unique, complete system allows the user to inspect the interior of any large-caliber barrel. The system measures distance, angle and depth, handling documentation of all defects with referring data sets of measurement results and images.

### Hardware: Bore Insertion Unit (BIU) + Observation and Evaluation Unit (OEU)

The RIB 2000 NG consists of an insertion unit with built-in sensors, two integrated high-resolution cameras and an observation and evaluation unit. The digital cameras provide highest possible resolution images of straight 0° and 90° views of the inside barrel wall. The bore insertion unit may be inserted into either the breech or muzzle end of the barrel and located anywhere along its length at the point of the suspected defect. By easily exchanging the guide rings, the system can be adapted to any caliber from 76-155 mm. LCD flat-screen displays feature optimum performance within confined space. The computer hardware is integrated into the RIB 2000 NG system's rugged transport case that affords protection, storage and transportation.



Observation and Evaluation Unit (OEU)



Bore Insertion Unit (BIU)

### Features

Inspection of different bore sizes: easy adaptation by guide ring exchange (76, 90, 105, 120, 122, 125, 130 and 155 mm, other calibers on request)

Measurement of distance, angle and depth of erosions

Live images of straight 0° and 90° view of the inside barrel wall

Full screen view of defects

Switchable grid and ellipse overlay over live image for quick initial diagnosis

Interactive measuring module with multiple overlay and annotation functions

Storing of measurement results in data base

Calculation of volume based on depth and area measurement data

Direct table overview of all measurement results with linked image

Forwarding of reports with USB memory device

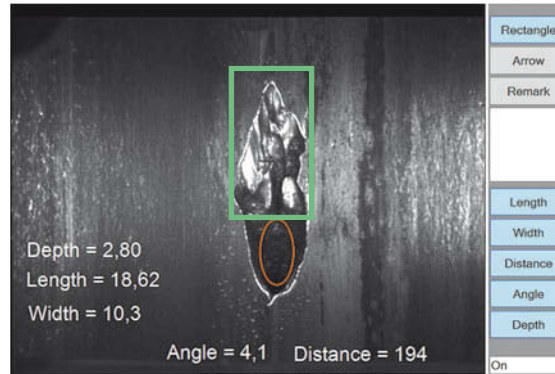
Reports showing angle, distance and diameter exportable as standard spreadsheet files

On-site training is available

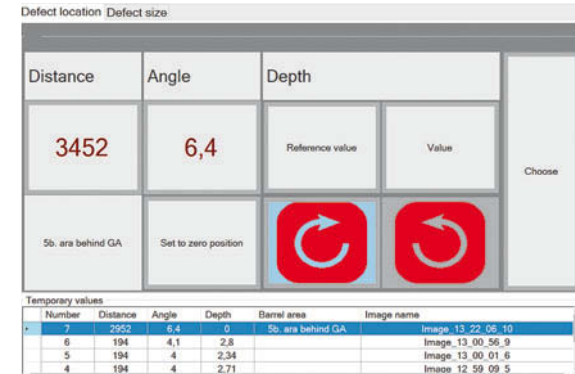
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Accessories



Full Screen View with Defect Size Measurement



Main Control Window



Bore Insertion Unit (BIU) with Accessories



Optional Diameter Measurement Modules (DMM)

### User-Friendly Application Software

Easy localization and measurement of defects: The application-oriented software enables depth and area measurements as well as volume calculation. A simple, directed user interface allows the user to work safely and comfortably, reviewing stored data sets during the evaluation procedure. The system guarantees 100% precise archiving and reproduction of all data and retracing of defects (angle and distance). Reports, consisting of the data table as standard spread sheet file and selected images, can be exported to USB memory devices. TDv018 license holders may use the special TDv018 table format to export reports.

### Diameter Measurement Module Option

Mounted on the BIU and connected to the OEU, the optionally available DM module measures gun barrel diameter. Measuring heads are available for 90, 105, 120, 122, 125, 130 and 155 mm calibers, also available for other calibers upon request.



Mounted DMM

Kappa is your reliable partner, guaranteeing long-term availability, service and maintenance or repairs.

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