PROFESSIONAL MEASURING
SINCE 1844

KERN

Product brochure

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# SAUTER DB 20-3

Convenient way to test the torque of tools

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## CONTACT

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## APPLICATION EXAMPLE









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## FEATURES

- Particularly suitable for testing torque wrenches, electric hand screwdrivers and cordless screwdrivers
- Screw joint simulator for dynamic testing of electric screwdrivers
- Metal housing for durable use in harsh environmental conditions
- Capacity display: A bar lights up to show how much of the measuring range is still available
- LCD graphics display with backlight
- Stable mounting plate for solid fixation
- Data interface USB and RS-232 included
- Internal data memory saves up to 500 measurements. The memory contents can be transferred to the PC using optional software
- Peak-Hold function to capture the peak value or Track function for continuous display of measurement
- Can be used in both directions of rotation
- Measuring with tolerance range (limit-setting function): Upper and lower limiting can be programmed individually. The process is supported by an audible and visual signal
- AUTO-OFF function
- Scope of delivery: Torque pick-up, sturdy carry case, mounting plate

## TECHNICAL DATA

- Backlit LCD graphics display
- Selectable measuring units: Nm, kgf/cm, kgf/m, in/lbs, ft/lbs
- Measuring precision: ± 0,5% of [Max]
- Usable measuring range: 5 – 100 % of [Max]
- Overload protection: 120% of [Max]
- Rechargeable battery pack integrated, as standard, operating time up to 18 h without backlight, charging time approx. 14 h
- Overall dimensions 220×110×50 mm
- Net weight approx. 3,4 kg



## MAIN SCOPE OF APPLICATIONS

- Workshops
- Test laboratories
- Toolmaking and mould production
- Maintenance and servicing

## PICTOGRAMS

Standard




Option



## MODEL OVERVIEW

| Model | Measuring range [Max] | Readout [d] | Supported torque pickups |
|---|---|---|---|
| DB 0.5-4 | 0,5 Nm | 0,1 mNm | • 20 mm<br>• 3/8 " |
| DB 1-4 | 1 Nm | 0,2 mNm | • 20 mm<br>• 3/8 " |
| DB 5-3 | 5 Nm | 0,001 Nm | • 20 mm<br>• 3/8 " |
| DB 10-3 | 10 Nm | 0,002 Nm | • 20 mm<br>• 3/8 " |
| DB 20-3 | 20 Nm | 0,005 Nm | • 20 mm |

| Model | Measuring range [Max] | Readout [d] | Supported torque pickups |
|---|---|---|---|
| | | | • 3/8 " |
| DB 50-2 | 50 Nm | 0,01 Nm | • 20 mm<br>• 3/8 " |
| DB 100-2 | 100 Nm | 0,02 Nm | • 3/8 " |
| DB 200-2 | 200 Nm | 0,05 Nm | • 1/2 " |
| DB 500-2 | 500 Nm | 0,1 Nm | • 3/4 " |

## ACCESSORIES

| Model | Description |
|---|---|
| FL-A01 | USB cable FL-A01 |
| FL-A04 | Cable FL-A04 |
| YKT-01 | Needle printer YKT-01 |

## SOFTWARE

| Model | Description |
|---|---|
| AFH FAST | Data transfer software for force-time-measurements, AFH FAST |
| Sauter Readout | Data transfer software Sauter Readout |

## SERVICES

| Model | Description |
|---|---|
| 961-120 | Factory calibration certificate 961-120 |
| 970-109 | Warranty extension (+2 years) 970-109 |

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# KERN Pictogram Overview

| | |
|---|---|
|  | Peak hold function: capturing a peak value within a measuring process |
|  | Memory: Device-internal memory capacity, e.g. for article data, measuring data, tare weights, PLU etc. |
|  | Data interface RS-232: For connection to printers, PCs or other peripheral devices for data transfer over longer distances. Network in bus topology possible |
|  | Data Interface USB: For connection to printers, PCs or other peripheral devices |
|  | Statistics: using the saved values, the device calculates statistical data, such as average value, standard deviation etc. |
|  | ZERO: Reset the display to 0 |
|  | Units can be switched to e.g. non-metric units |
|  | Measuring with tolerance range (checkweighing): Upper and lower limit values can be programmed, e.g. for sorting, portioning or for measuring coatings or material thicknesses. The process is supported by an acoustic and/or optical signal |
|  | Rechargeable battery pack: Rechargeable set |
|  | Plug-in power supply: 230V/50Hz in standard version for EU, CH. On request GB, USA or AUS version available |
|  | Package shipment by courier service: The duration of internal product provision is one day |
|  | PC Software: to transfer the measurements from the device to a PC |
|  | Factory calibration (ISO): Factory calibration takes 4 working days |

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