

MDS

Mounting-
Documentation-System



Torque measurement directly on the bolt

Torque control via integrated sensor system

Highest flexibility - independent of power supply



HSD Manueller Sensorschrauber

DE Patent 4307131



alki
TECHNIK
GMBH

minicardos

alkitronic®

Bolt-connections on high quality levels, with narrow limits of tolerances, make highest demands on the screw technic. Bolt-sizes and - qualities, required torque limit-values as well as tolerances determine the bolting method.

These demands require a flexible, high powerful system:

alkitronic - HSD (manual sensor-torque tool) and **minicardos**

- ✓ Guaranteed quality and documented joints
- ✓ Repeatability in tightening - independent of disturbances
- ✓ Low energy input - low torque input
High **controllable** torque output
- ✓ Display of starting- and continuing torque etc.
- ✓ Select your individual bolting- and measurement method -
3 programmes can be chosen

**Now you have the
torque under control**
>>DE-PATENT<<



alkitronic-HSD and **minicardos**

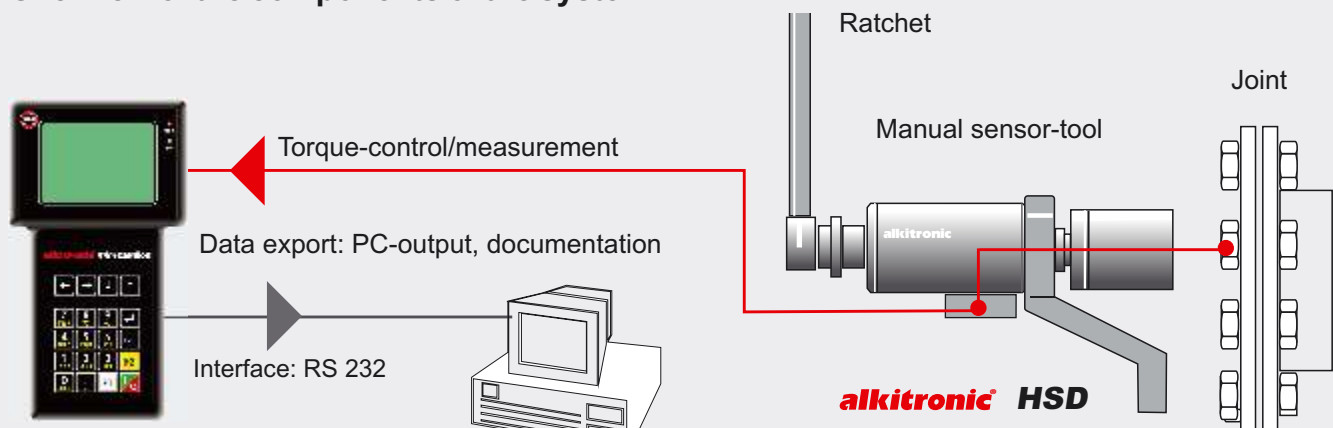
This high-tech analyzer is suitable for torque control on the spot. High flexibility - independent of power supply. The **minicardos** is a handy torque-control- and measurement-system. Torque as well as angle can be manually adjusted to the joint.

- Large LCD front panel - Display of torque in **Nm** or **lb.ft.** are basic.
- Sophisticated and easy to use.
- Operation-procedure through **visual and acoustic control-** or **warning signal.**

Plug & screw

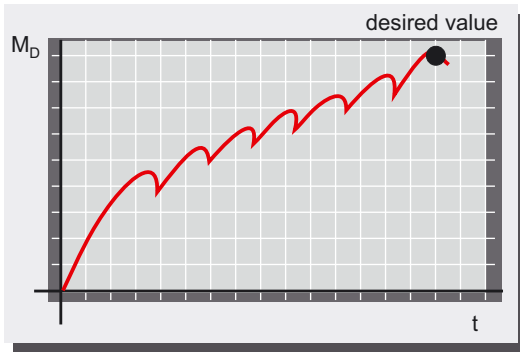
Connect the **alkitronic-HSD** to the **minicardos**, choose HSD-Type, choose the program, insert ratchet - and start...

Overview of the components of the system:



alkitronic minicardos

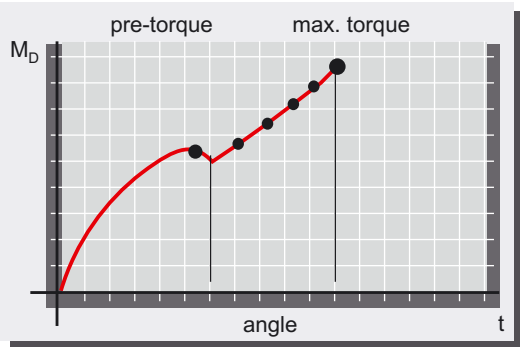
Ref.No.: 15970	German	Price EUR:	Ref.No.: 15971	English	Price EUR:
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Tightening with torque control

A

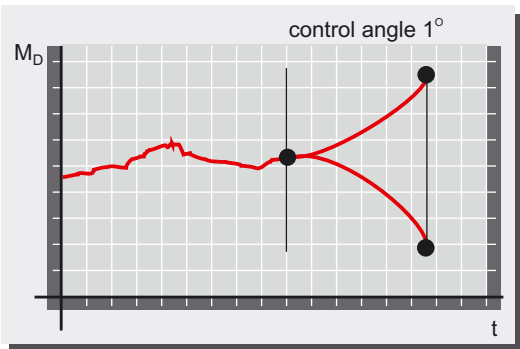
- **CW- Direction:** Torque controlled tightening of high quality screw-connections (with or without desired value)
- Visual, acoustic control- and warning signal
- **CCW-Direction:** Determination of the starting torque of already tightened screw-connections.



Tightening with M_D - control + angle

B

- Pre-torque and angle guarantee optimum screwing (both values can be pre-selected)
Pre-torque + angle = maximum torque
- Control using a variable after-tortion angle
- Visual, acoustic control- and warning signal



Determination of the actual torque

C

- Determination of the actual torque using a pre-selected read-out aquisition-system
- Visual, acoustic control- and warning signal

Technical details **alkitronic® - HSD**

Hand-operated sensor-tool HSD

Drive: 3/4" internal square socket for conventional ratchets or external hexagonal socket SW 36 mm / handwheel for positioning

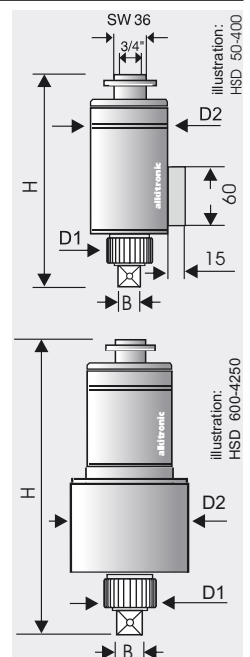
Type		HSD 50	HSD 100	HSD 200	HSD 300	HSD 400	HSD 600	HSD 800	HSD 1000	HSD 2250
Measuringrange	Nm	50-500	100-1000	200-2000	300-3000	400-4000	600-6000	800-8000	1000-10000	2250-22500
Power(max)	Nm	500	1000	2000	3000	4000	6000	8000	10000	22500
Squaredrive	B	3/4"	1"	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"
Diameter(mm)	D1	41	54	54	72	72	72	72	91	SW 120
Diameter(mm)	D2	88	88	88	98	98	123	148	173	275
Height approx. (mm)	H	220	220	295	320	320	430	430	440	510
Weight approx.	kg	5,6	7,5	8	10	10,5	19	20	32	62
Ref.No.		15981	15982	15983	15984	15985	15986	15987	15988	15989
Price	EUR									

Accuracy: +/- 1% / Temperature range: 0 to + 50° C / Protection: IP 44

Ratchets available as optional accessories



Ref.No.: 31359 | Length: 550 mm | Weight: 2,55 kg | Direction switch right/left | Price EUR:



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**alkitronic®
minicardos**

alkitronic® - ESDx



alkitronic® - cardos OP

alkitronic® - cardos OS

