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The Manuals

MSD traceable bolting solution

Alkitronic M-SD

Applications

- High quality bolt-connections place the highest demands on bolting technology. The powerful mounting documentation system alkitronic® MDS provides a fast, complete and flawless collection of torque data. alkitronic® MDS helps to fulfill legal regulations and to comply with international quality standards (documentation to the end user, trace able bolting parameters).
- The product range includes:
 The manually operated alkitronic® M-SD, and the pneumatic operated alkitronic® PC-SD. The torque multipliers are used for torque controlled bolting and reliable measurement data recording on the spot.

Advantages

General

- · Optimized process safety and work safety.
- · Guaranteed traceability and documented bolted joints.
- Torque can be set and record on site.
- Control panel with OLED display, display of torque in Nm or ft.lbs.

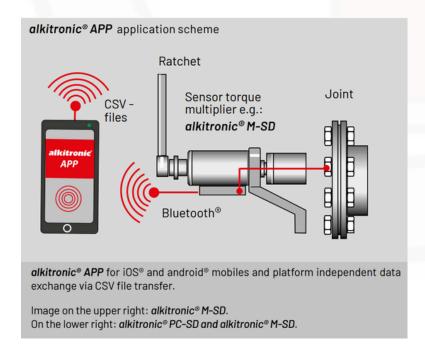
alkitronic® M-SD

- Repeatability in tightening independent of disturbances.
- Torque/torque angle procedure, manual setting, and documentation on site.
- · High mobility: independent of external power supply.

alkitronic® PC-SD

- Robust motor housing of cast aluminum with proven pneumatic drive.
- Proven high-performance gears, produced in a chip-free, high precision process produce high loads with low wear.
- Simple 1-finger operation for right/left rotation.







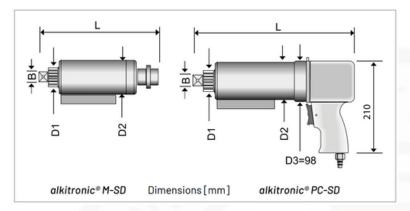
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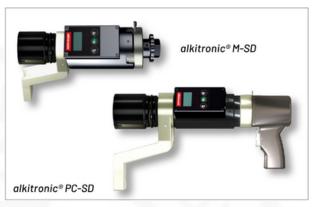
The Manuals

Documentation-Systems

Alkitronic M-SD

Technical Data





Models M-SD/F	PC-SE	כ						
Туре			M-SD 100	M-SD 200	M-SD 400	PC-SD 100	PC-SD 200	PC-SD 400
Measuring range approx. Nm			100-1000	200-2000	400-4000	100-1000	200-2000	400-4000
Power (max)		Nm	1000	2000	4000	1000	2000	4000
Square drive	В		1"	1"	11/2"	1″	1"	11/2"
Diameter (approx.)	D ₁	mm	54	54	72	54	54	72
Diameter (approx.)	$D_{\!\scriptscriptstyle 2}$	mm	88	88	98	88	88	98
Length (approx.)	L	mm	220	295	320	360	390	410
Weight without DMA approx. kg		6.4	7.6	11.35	10	11.25	15	
Idle speed		r/min	-	-	-	11	5	3.5

Operation panel/sensoric: Measurement accuracy: +/- 1% / Temperature range: 0 to + 500 C

Overview of the programs 1 to 5 (Programs for M-SD: 1-4, for PC-SD: 1 and 5, only)

1 Tightening with specified torque

 Torque controlled bolting, bolt connections with target values and tolerance levels.

2 Tightening with torque/angle procedure

- Pre-torque and angle can be preset.
- Tolerance speciftication for the final torque (control of bolting quality).
- Storage of actual torque and angle.

3 Checking of torque

Monitering of already tightened bolt connections.

- Determination of already loosened torque values.
- Repeatable testing method with specified angle.
- CCW: Determination of the starting torque.

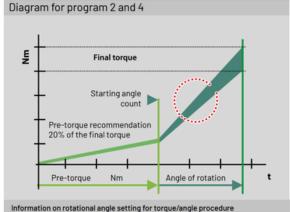
4 Determination of required angle

- For testing and development purposes. Pre-torque and target resp. final torque are specified.
- Measurement and storage of the reached angle.

5 Display actual torque only with model PC-SD

• Display and recording of the actual torque.

Operating range M-SD / PC-SD with OLED graphic display Example for menu-guided operation (M-SD) 15:10 15:10 Program 1 Program 2 nominal torque torque min Program 3 torque max Program 4 # of bolting start basic settings back Examples Display image in mode "Program 1" Select units (Nm/ft.lbs) and language (German, English) during setting (image 2). Image 3 shows setting of bolting parameters. Image 4 shows the amount of boltings. Alarms and other notifications made by visual and acoustic signals



A pre-torque and angle of rotation are specified constructively for the bolting connection.

B The angle of rotation can be determined individually and easily with the alkitronic® M-SD.