

NEW GENERATION CORDLESS TORQUE WRENCH

with process reliable documentation software
and sunlight-readable colour display

LDA/LAW SOLUTION UP TO 6000 Nm



YOUR TRUSTFUL PARTNER FOR SAFETY
BOLTED CONNECTIONS WITH DOCUMENTATION.

YOUR SAFETY IS IMPORTANT TO US

TORQUE RANGE UP TO 6000 NM



Display

Sunlight-readable colour display. Continuously adjustable torque from 90 - 6000 Nm

Low-maintenance modern control system

Brushless Technology

Documentation

Documentation of over 10.000 bolted connections and pre-defining of different bolting operations with the module DOCU (optional)

Torque/Torque Rotation Angle Modus

Defined bolting with the torque rotation angle modus (optional)



Individual factory calibration certificate

USB interface for data transmission



Battery performance

System performance: 270 Wh
powerful 90 Wh (18V/5Ah)
lithium-ion battery

Precision

Torque accuracy better than $\pm 3\%$ for the same bolt connection

Automatic device switch-off

Own microprocessor-controlled switch-off electronics. Automatic switch-off of the device when torque is achieved. Wrench slacken (back off) after torque is applied



See for yourself
- take a look at our
LDA Solution Video on!

Upgrade your already purchased LDA/LAW on LDA/LAW Solution possible, please contact us.



Series LAW Solution

Proven system sequence by means of digital color display

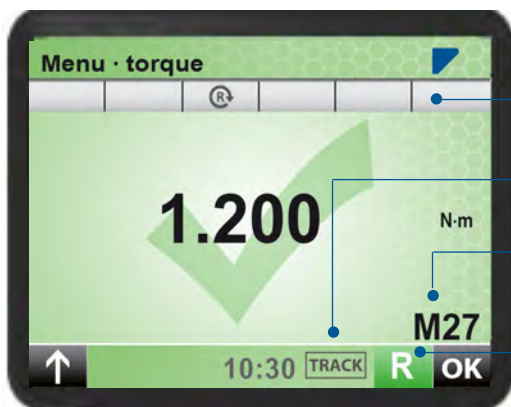
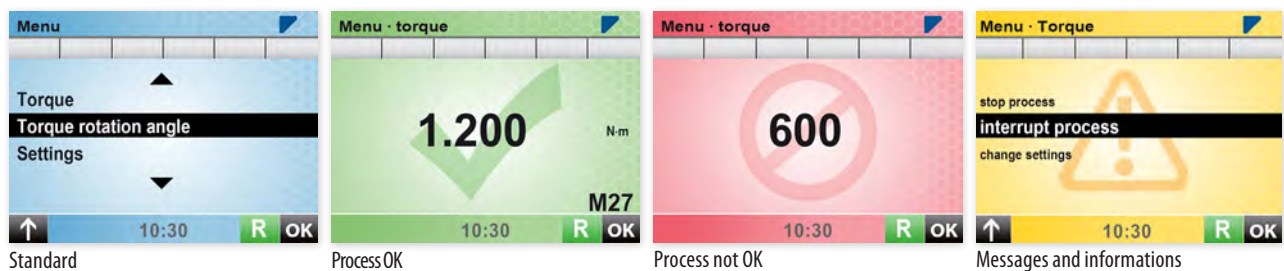
For maximum precision, the LDA Solution offers a visual and acoustic zero-defects strategy: a sunlight-readable, digital colour display visualises the entire work workflow; in addition, an acoustics signal sound as soon as the set value is reached. The menu language can be set optionally (German or English).

Lies comfortably in the hand

The ergonomic grip is non-slip and fatigue-free in the hand and ensures safe working. The 360° rotating drive unit prevents injuries to the operator when using in confined spaces.



The display and its functions:



- + Toolbar shows status of the device (USB connection, thread direction, temperature)
- + Active module (TRACK or QS)
- + Typical bolt for adjusted torque
- + Direction of rotation



- + 2" high resolution LCD colour display with impact resistant macrolon protection screen
- + OK-button
- + Back-button
- + Setting wheel for easy Selection of bolt cases and torque values
- + USB-interface for data transmission



The new cordless torque wrench with documentation module

The new cordless torque wrench LDA/LAW Solution, is equipped with a documentation module for quality assurance and a sunlight-readable, intuitively operated colour display. Pre-defining of different bolting operations with module DOCU is possible. With its powerful 90 Wh lithium-ion battery, microprocessor electronics and brushless technology, the LDA/LAW Solution has a torque range up to 6,000 Nm. With the torque rotation angle controlled torque tightening process, perfectly defined bolted connections according to the highest quality standards are guaranteed.

Optional bolting software and documentation module DOCU

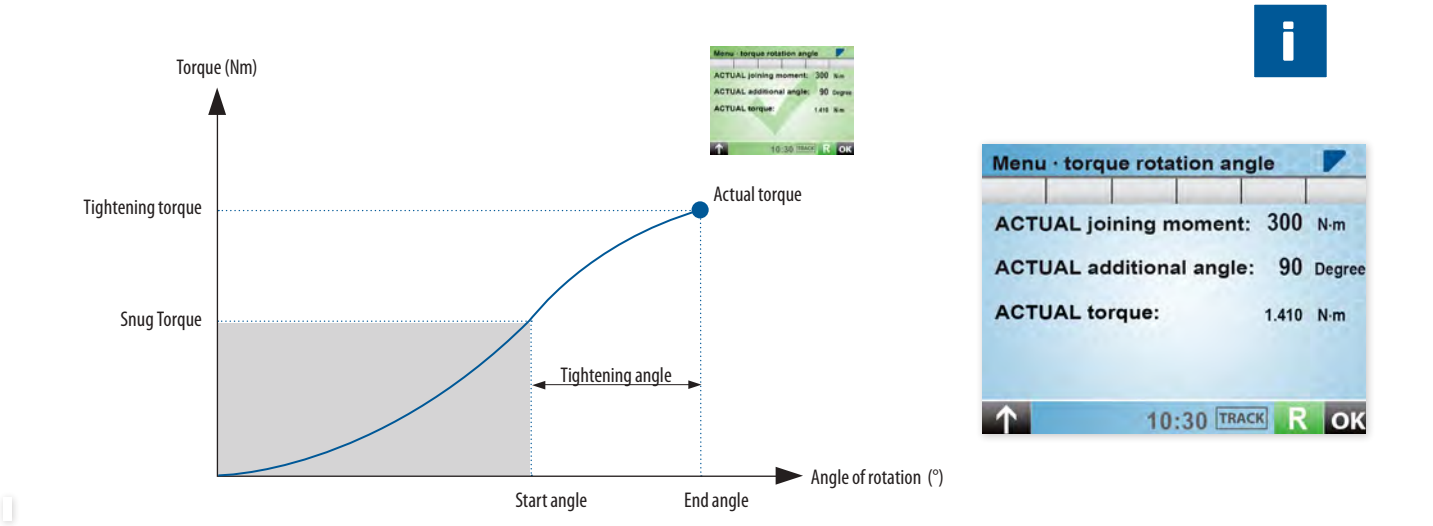
With the documentation module DOCU the documentation of over 10,000 bolt connections possible. It also serves for quality assurance Archiving of your completed bolting work.

Conforms to the highest standards

The data transfer of all bolt tightening operations via USB interface at the end of the working day is flawless and complete with the LDA Solution. An integrated counting mode for life and maintenance cycle reminds you of service and recalibration.

Defined bolt connection with torque-angle controlled torque tightening

For a more precise tightening of the bolts, the LDA Solution offers the torque-angle torque tightening method. After the snug torque has been reached, the bolt is retightened by the previously determined further angle of rotation and thus guarantees a perfectly defined bolt connection according to the highest quality standards.



The new cordless torque wrench with documentation module

The new high torque cordless wrench LDA Solution, can optionally be equipped with a documentation module for quality assurance. Also a storable bolt case assignment is possible.



DOCU documentation module for quality assurance

With the TRACK module, bolting processes can be traced back. During the bolt tightening process the data is documented and then exported to a PC. From there, a bolting protocol can be created and archived. This reliably documents that all bolt connections have been tightened with the specified settings. The encrypted log file ensures that manipulation of the documentation data is impossible. The TRACK and QS modules enable the documentation of more than 10,000 bolted joints and serve for quality assurance and archiving of your completed bolting work. The QS module can be switched on and off as required with password protection.

Bolted Screw Protocol

GEDORE

Master data

Personal Number: _____ Project Number: _____

Date: _____

Application: _____ Subassembly: _____

Type: _____ Department: _____

ID No. bolt: _____ Quantity: _____

Tool: LDA-12 Solution Serial Number: EA05.00002

Tightening process

Torque tightening

Evaluation

Legend Status:
 AB = cancel, UL = overloading, TEMP = excess temperature, i.O = OK, n.i.O = not OK

No.	Date	Time	R/L	Target torque (Nm)	Actual torque (Nm)	Typical bolt	Status
1	22.01.2018	8:57:35	R	2800	2887	M36	i.O.
2	22.01.2018	13:14:04	R	8000	7957	M56	i.O.
3	22.01.2018	12:14:18	R	8000	7900	M56	i.O.
4	22.01.2018	13:16:07	R	8000	7957	M56	i.O.
5	22.01.2018	13:19:30	R	8000	7992	M56	i.O.
6	22.01.2018	13:19:27	R	6500	6510	M48	i.O.
7	22.01.2018	13:19:40	R	6500	6503	M48	i.O.
8	22.01.2018	13:54:58	R	8000	8013	M56	i.O.
9	22.01.2018	13:55:14	R	8000	8002	M56	i.O.
10	22.01.2018	13:55:30	R	8000	9989	M56	UL
11	22.01.2018	13:55:55	R	8000	7156	M56	UL
12	25.01.2018	7:57:39	R	3015	3112	M36	i.O.
13	25.01.2018	8:02:43	R	8000	8015	M56	i.O.
14	25.01.2018	8:03:12	R	8000	0	M56	AB
15	25.01.2018	8:03:32	R	8000	8021	M56	i.O.
16	25.01.2018	8:03:48	R	8000	8004	M56	i.O.
17	25.01.2018	8:04:05	R	8000	8021	M56	i.O.
18	25.01.2018	8:04:21	R	8000	8004	M56	i.O.
19	25.01.2018	8:04:38	R	8000	7452	M56	UL
20	25.01.2018	8:04:57	R	8000	7276	M56	UL
21	25.01.2018	8:05:17	R	8000	7108	M56	UL
22	25.01.2018	8:06:41	R	2900	2912	M36	i.O.
23	25.01.2018	8:12:06	R	8000	8012	M56	i.O.
24	25.01.2018	8:12:24	R	8000	8036	M56	i.O.
25	25.01.2018	8:12:42	R	8000	8010	M56	i.O.
26	25.01.2018	8:14:30	R	6500	6521	M48	i.O.
27	25.01.2018	8:14:48	R	6500	6547	M48	i.O.
28	25.01.2018	8:15:00	R	6500	6523	M48	i.O.
29	25.01.2018	8:15:20	R	6500	6508	M48	i.O.
30	25.01.2018	8:15:35	R	6500	6557	M48	i.O.
31	25.01.2018	8:21:24	R	5000	5055	M45	i.O.
32	25.01.2018	8:21:38	R	5000	5034	M45	i.O.
33	25.01.2018	8:21:50	R	5000	5050	M45	i.O.
34	25.01.2018	8:22:03	R	5000	5063	M45	i.O.
35	25.01.2018	8:22:19	R	5000	5030	M45	i.O.
36	25.01.2018	8:22:32	R	5000	5050	M45	i.O.
37	25.01.2018	8:33:03	R	5000	5013	M45	i.O.
38	25.01.2018	8:33:17	R	5000	5030	M45	i.O.
39	25.01.2018	8:33:30	R	5000	5013	M45	i.O.
40	25.01.2018	8:33:55	R	6500	6513	M48	i.O.
41	25.01.2018	8:34:23	R	8000	8045	M56	i.O.
42	25.01.2018	8:34:44	R	4500	4503	M42	i.O.
43	25.01.2018	8:34:57	R	4500	4506	M42	i.O.

Original printed with GEDORE bolting software.

1 Free available fields for individual use

2 Tool and serial number

3 Protocol of the bolt connection with device-specific documentation values:

Date/time of each bolting connection

Tightening process

DA - Torque tightening

DW - Torque-angle tightening

SET Torque of the bolt connection

ACTUAL Torque of the bolt connection

Typical bolt

Status of the bolt connection

i.O. – OK

n.i.O. – not OK

AB – cancel

UL – overloading

TEMP – excess temperature



Authenticity test symbol is used in the bolt case software displayed

4 Forgery-proof - only original protocols are provided with this line. Manipulated documents are therefore excluded from the process.

Quality management module QS for definition and documentation

The QS module is suitable for all companies that want to define and document bolting cases according to the specifications of quality management. The bolt connections and values are defined on the PC via our bolt application software. Any number of bolt connections can be defined and saved.

The data transfer of all bolting processes via USB interface at the end of the working day is faultless and complete with the LDA Solution.

GEDORE

Application: _____ Subassembly: _____

Type: _____ Department: _____

Effect: last _____ Quantity: _____

Tool: _____

Process

☒ Torque Admitted ☐ Torque Position Angle

Target torque: _____ Nm Target position: _____ Nm

Target angle: _____ Nm Target position: _____ Nm

Target time: _____ Nm Target position: _____ Nm

Control parameters

Angle degree: _____ degree Angle degree: _____ degree Angle degree: _____ degree

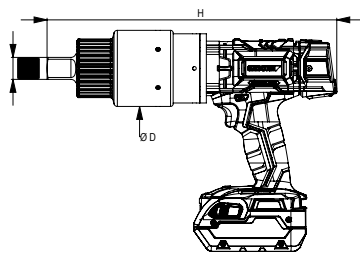
Bolt management

☒ Workman self-cancel ☐ Workman

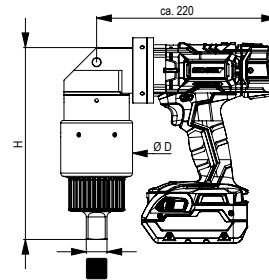
☒ Workman self-cancel ☐ Workman

☒ Workman self-cancel ☐ Workman

Technical Data



LDA Solution series – straight version



LAW Solution series – angled version

Typ	N-m min ^{*1} / max ^{*2}	lbf-ft min ^{*1} / max ^{*2}	~ U/min	■	Ø D mm	H mm	kg ^{*3}
LDA-05 Solution	90 - 500	66 - 369	46	3/4"	80	294	3.4
LDA-07 Solution	120 - 700	86 - 516	29	3/4"	80	326	4.0
LDA-12 Solution	200 - 1.200	148 - 885	20	3/4"	80	326	4.0
LDA-15 Solution	250 - 1.500	184 - 1107	15	1"	88	342	5.1
LDA-22 Solution	300 - 2.200	221 - 1623	10	1"	90	360	5.7
LDA-32 Solution	400 - 3.200	290 - 2360	7	1"	88	383	6.2
LDA-40 Solution	500 - 4.000	369 - 2950	5,5	1"	88	383	6.2
LDA-60 Solution	700 - 6.000	516 - 4425	3,5	1 1/2"	102	398	7.9
LAW-12 Solution	200 - 1.200	148 - 885	20	3/4"	80	223	5.3
LAW-22 Solution	300 - 2.200	221 - 1623	10	1"	90	255	7.0
LAW-32 Solution	400 - 3.200	332 - 2360	7	1"	88	279	7.4
LAW-40 Solution	500 - 4.000	290 - 2360	5,5	1"	88	279	7.4
LAW-60 Solution	700 - 6.000	510 - 4425	3,5	1 1/2"	102	295	9.2

^{*1} Lowest torque in 2nd gear^{*2} Maximum torque in 1st gear^{*3} Without reaction arm with battery

Battery: 740g

Vibration is less than 2.5 m/s²

Continuous sound pressure level corresponding to < 78.7 dB (A)

Further torque ranges on request. All rights reserved. Subject to modifications without prior notice.



Scope of delivery

- › Device
- › Handle (from LAW-60 Solution)
- › reaction arm, cranked, with lock on function* made of chrome-vanadium steel
- › 3x Lithium-ion battery (90 Wh/18 V/5 Ah)
- › Charger 220–240 V; 50/60 Hz or 110-120V; 50/60 Hz
- › Tool box
- › Operation manual
- › Factory calibration certificate



Optional accessories

- › Reaction arm made of light alloy, straight with adjustable locking knob with movable square-end and retaining ring
- › Reaction ring for welding on
- › Car charger for 12 V connection
- › Function LA.M+a (from construction size -12**)
- › Module LA.DOCU
- › Silicone protection cover display unit



*lock on function available for 3/4" and 1"

**for LDA/LAW -12 Solution and -15 Solution function only possible in 1st gear