

GEDORE
TOOLS FOR LIFE

Your partner for
maintenance, servicing
and production

GEDORE Torque Solutions GmbH



Die **GEDORE** Gruppe

Tools for the highest demands have a name: GEDORE. GEDORE has been manufacturing hand and special tools in Remscheid and at other locations in Germany, Austria, Great Britain, South Africa and Brazil for 100 years. Tools for life.

GEDORE Torque Solutions

GEDORE Torque Solutions bundles our expertise in the field of high-torque bolting technology. Our specialists develop and manufacture torque-precise high-torque torque wrenches for the range from 60 to 54,000 N-m, which are used in particular in mechanical and plant engineering, in heavy industry and in the construction of power stations, wind turbines and for bolting railway tracks. We manufacture our high-torque torque wrenches with battery, electric, pneumatic and hydraulic drives, as well as test stands for high-torque wrench technology.

GEDORE Torque Solutions

- 2008** LÖSOMAT becomes a wholly owned subsidiary of the GEDORE Group
- 2009** LÖSOMAT moves into the new company building at the „Perfect Location“ in Vaihingen/Enz
- 2010** LÖSOMAT awarded the „Plus X Award“, in the categories „Ease of Use“ and „High Quality“ for the cordless torque wrench. Also awarded the „Bestes Produkt 2010“ award
- 2011** LÖSOMAT founded the first subsidiary in Great Britain under the name „LÖSOMAT UK“
- 2012** LÖSOMAT develops a visual-acoustic display for the entire electric torque wrench series
- 2015** Award of the BW Competence Prize for Innovation and Quality for the LDB cordless rail track wrench
- 2016** LÖSOMAT-Schraubtechnik Neef GmbH becomes GEDORE Torque Solutions GmbH
- 2018** Further development of the new generation series LDA high torque cordless torque wrench
- 2019** The smallest mounting cordless torque wrench GDA up to 200 Nm is developed
- 2020** Our innovative LDA/LAW Solution, high-torque cordless torque wrench with documentation function and sunlight-readable color display, is born.
- 2022** Extension of the LDA-S gate valve wrenches series with the Solution version with documentation and colour display



Our Benefits

Own development

- State-of-the-art design and analysis methods: **CAD, CAM, FEM**
- Highly motivated engineering team
- Different applications and bolting cases require individual solutions
- Job calculations

Own production

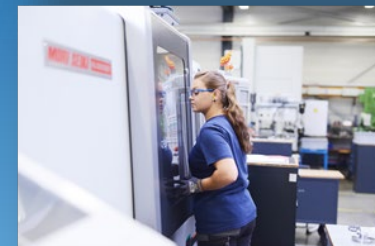
- Vertical range of manufacture of well **over 90**
- State-of-the-art machining centres

On calibration laboratory

- Individual factory test certificate
- Special calibration on original customer bolt
- Calibration of all high-torque torque wrenches

Over 40 years of experience

- Quality, innovation and precision
- First cordless torque wrench up to 7,500 Nm worldwide
- Large number of patents



GEDORE
WERKZEUGE FÜR'S LEBEN

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WERKSPRÜFZERTIFIKAT
für Hochmoment Akkuschrauber

Datum	12.01.2016	Hersteller	GEDORE	Schraubadapter:	M20x90: II 1-3
Typ	LDA-16ST	Prüfer	Helmut Renner	M24x120: I 1, II 4-7	
Serien Nr.	DA07.00153	Temperatur	23,1 °C	M30x130: I 2-4	
Inventar Nr.		Min. Moment:	250 Nm	M36x130: I 5-7	
Modelljahr	2016	Max. Moment:	2180 Nm		
		Toleranz	5 %		

MESSWERTE 1. Gang										[Nm]				AUSWERTUNG			
St.	1	2	3	4	5	6	7	8	9	10	Mittel	% Abw.	95% Vert.	100% Vert.	Sensor		
1	628	620	618	636	634						627	1,20	595	658			
2	1098	1099	1106	1096	1066						1093	1,42	1038	1148			
3	1289	1310	1290	1298	1312						1296	1,35	1231	1361			



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Cordless torque wrenches

Electric torque wrenches

Pneumatic torque wrenches

Hydraulic torque wrench and unit

Manual torque multipliers/Counter wrenches

Gate valve wrenches

Special solutions

Torque testing bench technology

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Digital cordless torque wrench for assembly GDA solution

Our smallest digital assembly cordless torque wrench with documentation and colour display → Torque up to 70 –250 Nm

The GDA Solution at a glance

- documentation of more than 10,000 bolted joints and a storable bolted joint assignment is possible with the DOCU module (optional)
- sunlight-readable colour display
- brushless motor (18V technology)
- ready for use in assembly, production and manufacturing
- infinitely adjustable torque on colour display
- 2-speed manual gearbox
- GTS gearbox modular system can be used 1:1
- ventilated housing
- compact housing
- individual test certificate
- low weight
- unbeatable for small bolting jobs
- special calibration up to 300 Nm optional



Cordless torque wrench for assembly GDA

Our smallest assembly cordless torque wrench → Torque up to 60 –200 Nm

The GDA at a glance

- brushless motor (18V technology)
- ready for use in assembly, production and manufacturing
- infinitely adjustable torque on colour display
- 2-speed manual gearbox
- GTS gearbox modular system can be used 1:1
- ventilated housing
- compact housing
- individual test certificate
- low weight
- unbeatable for small bolting jobs
- special calibration up to 300 Nm optional



Cordless torque wrench LDA/LAW Solution

With process-reliable documentation software and easy-to-read colour display → Torque up to 6.000 Nm

The LDA/LAW Solution at a glance

- sunlight-readable colour display
- torque/torque/angle of rotation function (optional) enables perfectly defined bolt connections to the highest standard
- documentation of more than 10,000 bolted joints and a storable bolted joint assignment is possible with the LA.DOCU module (optional)
- brushless motor, modern control (18V technology)
- stepless adjustable torque on colour display
- 2-speed manual gearbox
- GTS gearbox module can be used 1:1
- ventilated housing
- compact housing
- individual test certificate



Cordless torque wrench LDA/LAW

Light and compact, an unbeatable combination → Torque up to 6.000 Nm

The LDA/LAW at a glance

- brushless motor, modern control (18V technology)
- stepless adjustable torque on colour display
- 2-speed manual gearbox
- GTS gearbox module can be used 1:1
- ventilated housing
- compact housing
- individual test certificate
- smaller and lighter than its forerunner



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Elektric torque wrench LDE/LEW

Robust gearbox combined with intelligent electronics, incl. digital display → Torque up to 13.000 Nm

The LDE/LEW at a glance

- high torque with low weight
- visual, acoustic operator guidance via digital display
- available in different gearbox versions, thus adaptable to any bolting application
- different series available for special applications (e.g. crane construction/steel construction)
- flexible use due to different model series with straight and angled drive
- automatic shut-off when torque is reached with release of the reaction arm
- torque accuracy better than 3%.
- documentation module LE.TRACK optionally available



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Pneumatic torque wrenches LPK/LPK-X

Quiet and precise, already from 1.5 bar operating pressure. For the most diverse environments → Torque up to 12.800 Nm

The LPK/LPK-X at a glance

- works vibration-free and thus protects the health of the user, compared to the use of an impact wrench
- power is transmitted quietly and precisely to the bolted joint from as low as 1.5 bar operating pressure
- LPK-X with 7-fold bolting speed (high-speed)
- torque accuracy better than 3%.



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Hydraulic torque wrench LDH/LDK and Aggregate

Light and easy to handle with high torque → Torque up to 60 – 27.000 Nm

The LDH/LDK at a glance

- integrated pressure relief valve in the hydraulic connection
- small and compact dimensions for confined spaces
- different inserts and cassettes for flexible working
- quick-change mechanism
- optional inclined hydraulic connection
- optional hydraulic connection 360° rotatable and 180° swiveling
- compatible with our aggregates



Hydraulic unit LHU

Intelligent unit technology

The LHU at a glance

- hydraulic units are perfectly matched to our hydraulic wrenches and can document
- documentation of the bolting process (VDI 2290)
- modular design: manual, automatic, solution
- cassette wrenches designed for flange connections
- teach-in of third-party wrenches
- light weight



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Torque multiplier/counter wrench

The manual power tool → Torque up to 54.000 Nm

The LKV at a glance

- complete series up to 54,000 Nm, gear housing made of high-performance
- aluminium with overload protection: shear square, shear pin, slipper
- torque setting table according to input torque (efficiency is taken into account)
- individual factory test certificate for all models (except LKV-550RS)
- adjustable reaction arms available as an optional extra (LKV-L series standard with straight reaction arm with adjustable square reaction arm))

The LKS (counter wrench) at a glance

- patented mechanics for user safety and ease of work





Gate valve wrench



LDO



LES



LHD-75



Special solutions for different customer requirements

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Digital gate valva wrench LDA-S Solution

With dokumentation module and sunlight-readable colourdisplay → Breakaway torque up to 1.200 Nm

The LDA-S Solution at a glance

- sunlight-readable colourdisplay
- documentation of more than 10,000 slider rotations and definition of slider numbers with the module LA-S.DOCU
- breakaway torque 500-1,200 Nm (depending on type)
- 2-speed manual gearbox for three times higher speed
- without slipping clutch
- power battery with 90Wh/18V/5Ah + charger
- robust planetary gearbox for high breakaway torques



Gate valve wrench LDA-S

Tired-free and safe work even with sliders that are difficult to move

The LDA-S at a glance

- weight up to max. 3.9 kg
- infinitely variable breakaway torque for individual adjustment on your sliders
- breakaway torque 500-900 Nm (depending on type)
- 2-speed gearbox for three times higher speed
- without slipping clutch
- power battery with 90Wh/18V/5Ah + charger
- counter optional
- robust planetary gear for high breakaway torques



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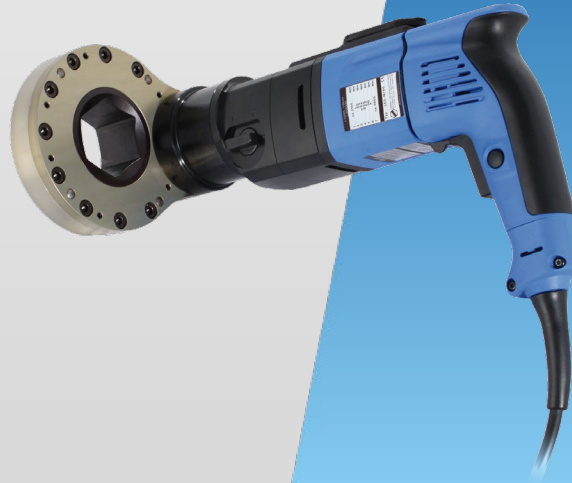


Side power wrench LES/LPS

Specially developed for work on plate heat exchangers → Torque up to 4.800 Nm

The LES/LPS at a glance

- for plate heat exchangers
- patented tandem gear train
- different spanner sizes
- enables space-saving attachment parallel to the tie rod



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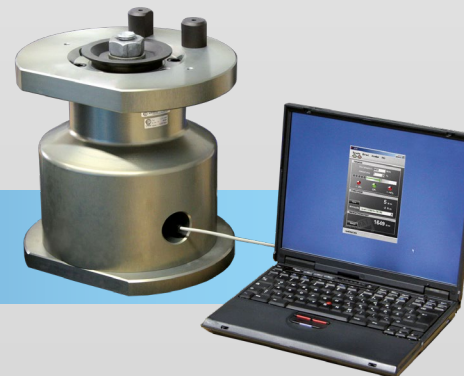
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Torque testing bench technology LTC

GEDORE Torque Solutions calibration philosophy → Torque up to 100 - 5.000 Nm

The torque testing bench technology at a glance

- we calibrate on the original bolt
- torque measurement with our system
- basic software with a lot of comfort
- practical, 1:1 based on the real bolting situation
- consideration of all influencing factors



GEDORE Torque Solutions – customer structure



Steel and crane engineering



Power plants



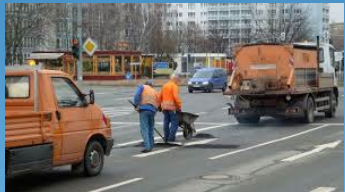
Transport industry



Wind energy



Shipyards



Building yard



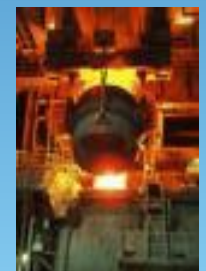
Pipeline and Apparatus engineering



Building industry



Sewage treatment plants



Heavy engineering

Thank you

GEDORE Tools

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