

GEDORE TORQUE SOLUTIONS



1617

„WE CANNOT CHANGE THE WIND
BUT WE CAN ADJUST OUR SAILS.“

Aristoteles (384 - 322 B.C.), Greek philosopher



GEDORE



COMPANY AND SERVICES

YOUR SPECIALIST IN HIGH LEVEL TORQUE BOLTING TECHNOLOGY



From pioneer to high-tech centre

We have represented quality and innovation in all branches of bolting technology for 40 years. Production based in Germany on state of the art machining centres ensures excellent quality and precision in our torque wrenches. The difference is quite simply in the detail.

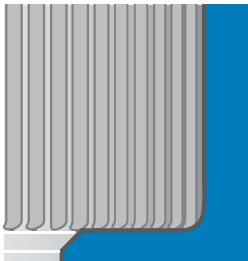


New production method

A patent-filed impact operation producing no grooves or notches at all. This enables a lighter and more stable gear housing than traditional type of machining. Your advantage: more safety in the process of bolt tightening with greater convenience.

Customary operation

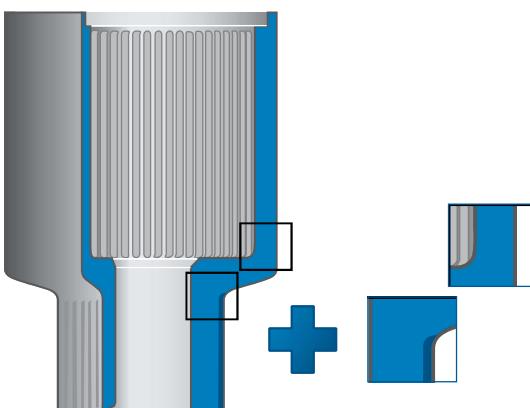
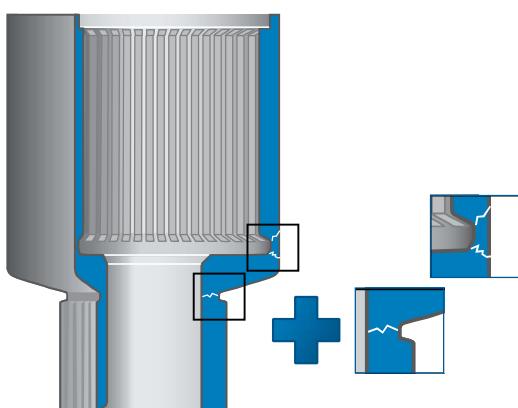
With the usual rolling impact operation, the cutting tool - at the serrated face runout - requires a design-necessitated „clearance cut“ to act as a notch. Cracks in the material may form within if overloaded. The notching needs to be countered by a thicker plate thickness in the gear.



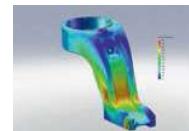
Housing based on a buttress root



Buttress root in the jungle



HIGH MANUFACTURING DEPTH OF NEARLY 100%



We develop the torque wrenches for your future

Our specialists develop your torque wrenches with state of the art construction and analysis methods (CAD/CAM/FEM). If a suitable solution is not available in our product range, we can design a specifically customised solution for you. Your applications are our challenge.



Production steps of a gear body



Raw material



Turning



Indenting



Milling



Hardening



Precision testing before release

In our in-house test laboratory, all dynamic devices are precisely measured and configured before they are sent to you. The torque deviation is usually significantly under 3% for identical bolting operations.

The individual factory calibration certificate is the proof that is required by every QM system as per DIN EN ISO 9001:2008.



CONSULTATION AND TRAINING BY SPECIALISTS



Always the right solution for you

Our experts can advise you on site and analyse your application case together with you in order to offer you the appropriate system. Our extensive range of products offers you a professional solution.



In-house training

We offer safety instruction and training courses for you in our in-house training centre. Every participant is subsequently issued with a certificate as verification of training.



Financing

The best solution for you counts. We will be happy to consider your wishes and ideas with regards to the contractual arrangement. In order to provide you with flexibility, we can offer various options when purchasing our products, from leasing to paying by instalments.

THE FACTORY CALIBRATION CERTIFICATE



Factory CALIBRATION CERTIFICATE															
for Battery torque wrench															
Date	12.01.2016		Manufacturer	GEDORE		Bolting Adapter:									
Type	LDA-16ST		Inspector	Max Mustermann		M20x90: II 1-3									
Serial No	DA07.00153		Temperature	23,1 °C		M24x120: I 1, II 4-7									
Inventory No			min. torque:	250 Nm		M30x130: I 2-4									
Model Year	2016		max. torque:	2180 Nm		M36x130: I 5-7									
MEASURED VALUES 1. Gear [Nm]											EVALUATION				
Set.	1	2	3	4	5	6	7	8	9	10	Ave.	% Dev.	95% Value	105% Value	Sensor
1	556	540	550	548	550						549	1,05	521	576	
2	835	827	821	815	816						823	1,03	782	864	
3	1113	1141	1113	1148	1137						1130	1,43	1074	1187	
4	1424	1392	1402	1433	1423						1415	1,22	1344	1485	
5	1763	1734	1741	1755	1757						1750	0,69	1663	1838	
6	2034	1994	2021	2044	2016						2022	0,94	1921	2123	
7	2186	2233	2179	2220	2211						2206	1,03	2096	2316	
MEASURED VALUES 2. Gear [Nm]											EVALUATION				
Set.	1	2	3	4	5	6	7	8	9	10	Ave.	% Dev.	95% Value	105% Value	Sensor
1	233	242	238	237	236						237	1,38	225	249	
2	304	304	300	311	301						304	1,37	289	319	
3	416	412	416	403	408						411	1,34	390	432	
4	511	506	505	514	513						510	0,82	484	535	
5	629	633	628	649	632						634	1,35	602	666	
6	739	747	735	724	727						734	1,25	698	771	
7	728	721	725	768	785						777	1,00	738	816	
Sensor data sheet (in order to their appearance): 1: Torque Sensor, Lorenz Messtechnik D-2271, SN: 102552, 15000 Nm 2: Torque Sensor, Lorenz Messtechnik D-2268, SN: 104305, 20000 Nm All measured values in this document are executed with a regular proofed calibration equipment. So that the lead back to ISO 9000 ff are guaranteed.											LPU: 201101171				

1 Secure DataMatrix Code

2 Individual factory calibration certificate for every planet gear unit system torque wrench with individual serial number for article identification

3 Transparency and safety resulting from deviation data taking the efficiency into consideration

4 Various languages available on request

5 Three to five complete measurement series per torque level depending on the device type

6 The torque values are readable on the label:

1. GANG 1. GEAR 1. VITESSE		
1	627	Nm
2	1093	Nm
3	1296	Nm
4	1550	Nm
5	1722	Nm
6	1973	Nm
7	2189	Nm

GEDORE
Ser.-Nr. DA07.00153
GEDORE Torque Solutions GmbH
Bertha-Benz-Str. 12-17 | 71665 Vaihingen/Enz
T: +49 70 42 1344-14
Made in Germany

2. GANG 2. GEAR 2. VITESSE		
1	236	Nm
2	335	Nm
3	442	Nm
4	532	Nm
5	614	Nm
6	680	Nm
7	737	Nm

GEDORE
Mj. 2016 Pmax. 560W
TYP LDA-16ST CE
www.gedore-torque-solutions.com
Made in Germany

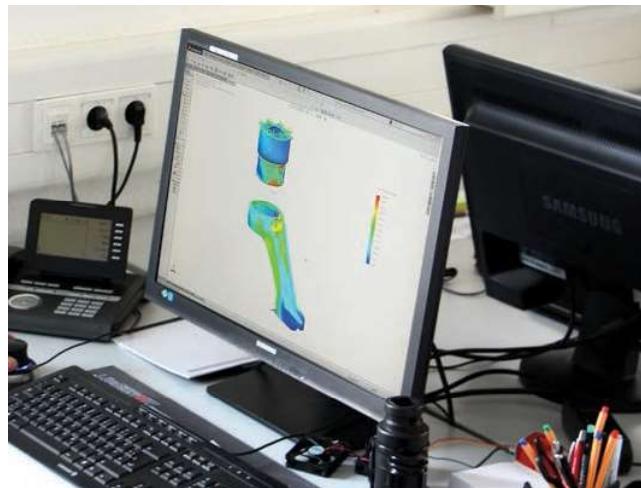
Individual factory calibration certificate for all planet gear unit system torque wrenches in the series:
LDA/LAW, LDE/LEW, LPK/LPK-X and LKV
Tested on standard or original bolts
We recommend annual tool inspection of the devices, a new factory calibration certificate can be issued following this inspection if required



SPECIAL REACTION ARM VERSIONS

The reaction arm of a high-torque wrench is one of the most important components on the device. It absorbs all reaction forces produced during bolting operations. It therefore has to be stable. In addition, reaction arms require a place in their surroundings where they can support themselves. They therefore not only need to be stable, but also suitable for a variety of environments.

As bolts can be located anywhere, it is possible that the standard reaction arm does not always fit and only a custom design can correctly absorb the reaction force. We are specialised in this area. Custom reaction arms can be built and force effects simulated (FEM) in our own development department in Vaihingen/Enz.



REFERENCE PROJECTS



Football stadium TSG Hoffenheim

The roof structure of the football stadium belonging to TSG 1899 Hoffenheim was mounted with our cordless torque wrench.

Metropol Parasol, Sevilla

The new landmark in Seville, Spain, was mounted with the high-torque cordless torque wrench (LDA). A total of 21900 bolted connections were tightened on the wooden construction.



source: MERK Timber GmbH

Shopping centre in England

A custom electric torque wrench was specially developed for the curved roof structure of a shopping centre in England where the bolts were difficult to access.

source: seele holding GmbH & Co. KG



QUALITY WRENCHES REQUIRE A QUALITY MANAGEMENT SYSTEM



We represent high-quality tools Made in Germany

In order to ensure correct and on time procurement of the raw materials and smooth production of the torque wrenches, GEDORE Torque Solutions GmbH implements a quality management system and is certified to the latest DIN EN ISO 9001:2008 standard.

Each dynamic torque wrench is examined as to its torque range at the factory and provided with an individual factory calibration certificate. This individual certificate and the extremely high quality standard of our products are the proof that is required by every QM system in compliance with DIN EN ISO 9001:2008.

Certified to DIN EN ISO 9001:2008



Reg.-Nr. 353736



Certificates




CERTIFICATE

This is to certify that

GEDORE

GEDORE Torque Solutions GmbH

Bertha-Benz-Straße 12
71665 Vaihingen/Enz
Germany

has implemented and maintains a **Quality Management System**.

Scope:
Development, production and sales of high torque wrenches

Through an audit, documented in a report, it was verified that the company fulfills the requirements of the following standard:

ISO 9001 : 2008

Certificate registration no. 353736 QM08
Valid from 2015-11-15
Valid until 2018-09-14
Date of certification 2016-01-05

DQS GmbH

G. Blechschmidt
Götz Blechschmidt
Managing Director

Accredited Body: DQS GmbH, August-Schanz-Straße 21, 60433 Frankfurt am Main

- IQNet -



CERTIFICATE

IQNet and
DQS GmbH Deutsche Gesellschaft zur Zertifizierung von Managementsystemen
hereby certify that the company

GEDORE Torque Solutions GmbH

Bertha-Benz-Straße 12
71665 Vaihingen/Enz
Germany

has implemented and maintains a **Quality Management System**.

Scope:
Development, production and sales of high torque wrenches

Through an audit, documented in a report, it was verified that the management system fulfills the requirements of the following standard:

ISO 9001 : 2008

Valid from 2015-11-15
Valid until 2018-09-14
Date of certification 2016-01-05

Registration number: DE-353736 QM08

M. Drechsel
Michael Drechsel
President of IQNet

G. Blechschmidt
Götz Blechschmidt
Managing Director of DQS GmbH

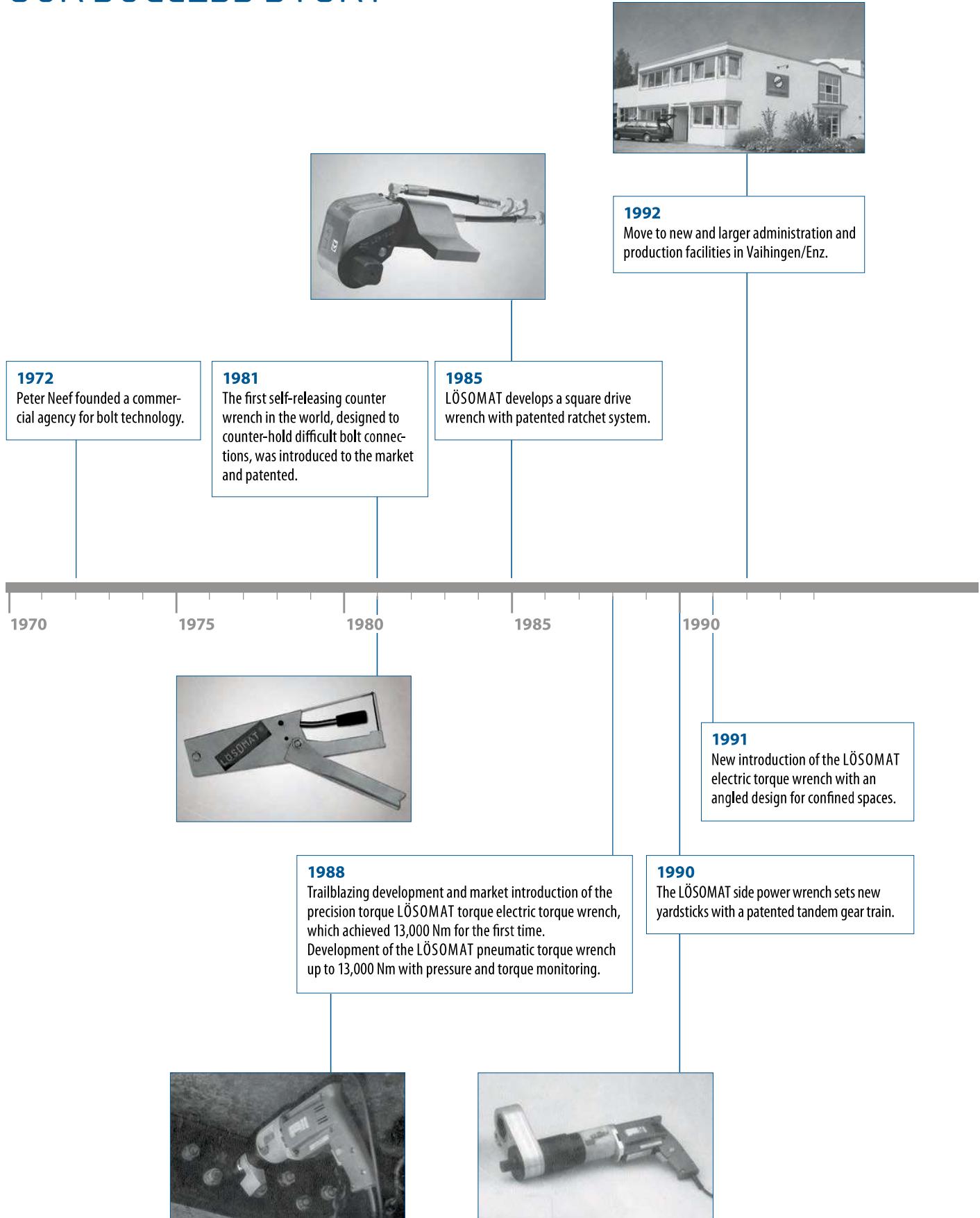
- IQNet -

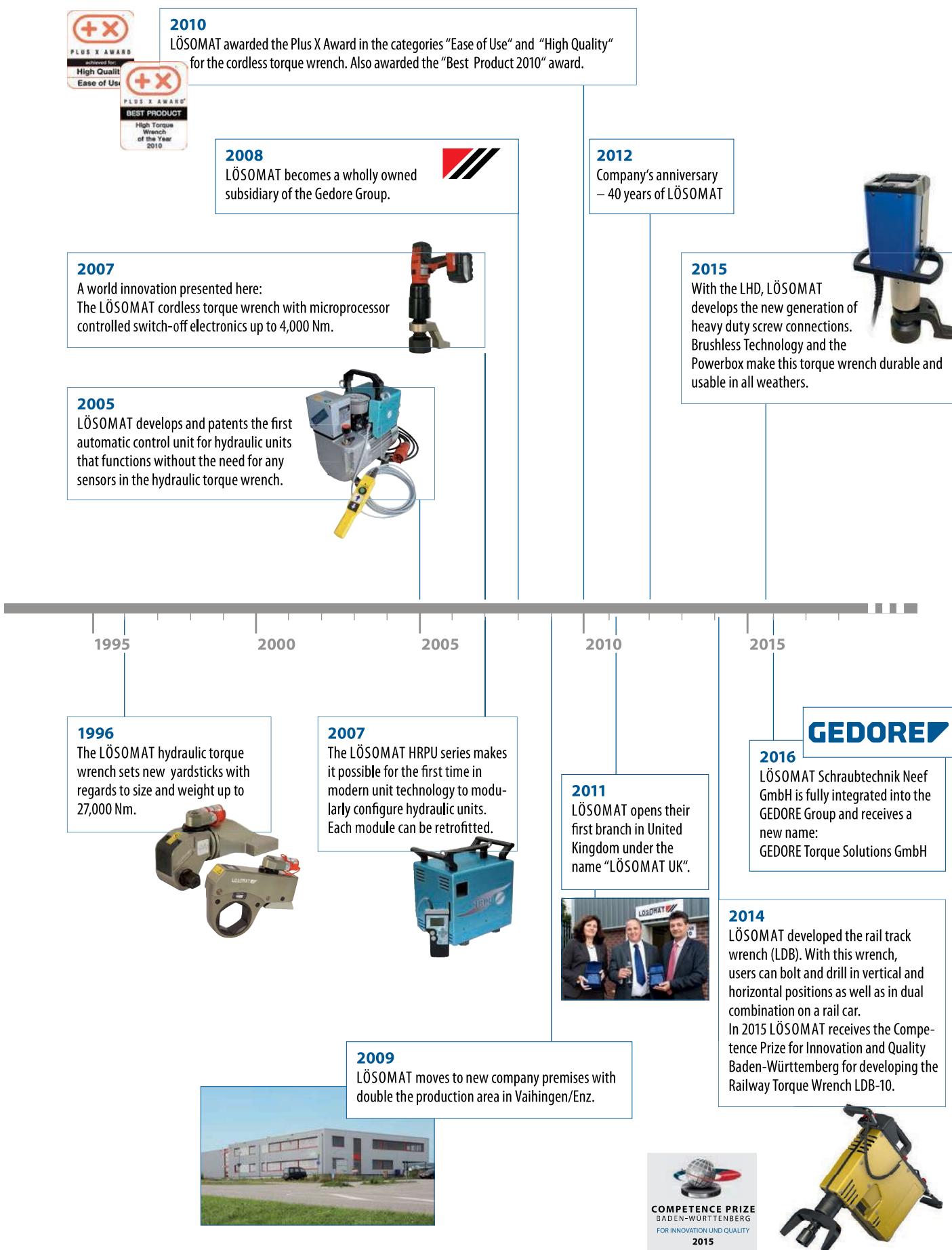
AENOR Spain AFNOR Certification France AIB-Virgoitis International Belgium APCER Portugal CCC Cyprus
CISO Italy CGC China CGM China COS Czech Republic Cro Cert Croatia DQS Holding GmbH Germany
FCAV Brazil FONDONORMA Venezuela ICOTEC Colombia IMNC Mexico Inspecta Certification Finland INTECO Costa Rica
IRAM Argentina JOA Japan KFO Korea MIRTAC Greece MSZT Hungary Nemko AS Norway NSAI Ireland PCBC Poland
Quality Assurance Australia SGS Malaysia SGS Mongolia SGS Norway SGS International Malaysia
SOS Switzerland SRAC Germany TEST SI Peterborough PRC Taiwan TSGS Saudi Arabia
TSGS Turkey TSGS Saudi Arabia

IQNet is represented in the USA by: AFNOR Certification, DQS, DQS Holding GmbH and NSAI Inc.

* The list of IQNet partners is valid at the time of issue of this certificate. Updated information is available under www.iqnet-certification.com

OUR SUCCESS STORY





GEDORE TORQUE SOLUTIONS GMBH WORLDWIDE



Germany
GEDORE Torque Solutions GmbH

Bertha-Benz-Straße 12
71665 Vaihingen/Enz

Tel.: +49(0) 7042 / 9441-0
Fax: +49(0) 7042 / 9441-41
torque-solutions@gedore.com
www.torque-solutions-gedore.com

Europe



Austria
GEDORE Austria GmbH

GEDORE-Straße 1
8190 Birkfeld / Stmk.

verkauf@gedore.at
www.gedore.at



Belgium
SAB-BNL nv

Vriesenrot 22
Industrieterrein Hoogveld Zone B
9220 Dendermonde

brecht@sab-bnl.be
www.sab-bnl.be



Czech Republic
GEDORE Polska Sp. z o.o.

ul. Żwirki i Wigury 56a
43-190 Mikołów · Poland

gedore@gedore.pl
www.gedore.pl



Denmark
EP Tools A/S

Industrivej Nord 9B, Birk
7400 Herning

ernst@ep tools.dk



Finland
Raahen Pultti Oy

Varikkotie 2
92100 Raahe

merja@pultti.net
www.pultti.net



France
GEDORE France SARL

Parc d'activités des Béthunes - La Mare II
10, avenue di Fief - Bât. 12
BP 79144 Saint-Ouen-l'Aumône
F-95074 CERGY PONTOISE CEDEX

info-klann@gedore.fr
www.gedore.fr
www.klann.fr



Greece
C. Canetti & Co.

269 Messogion Ave
152 31 Halandri

sales@kanetis.gr
www.kanetis.gr



Hungary
Gero Tools S.R.L.

Comuna Selimbar
Str. Mihai Viteazu nr. 245A
557260 Sibiu · Romania

calin.minduc@gerotools.ro
www.gerotools.ro



Netherlands
GEDORE Technag B.V.

Flemingweg 7
2408 AV Alphen aan den Rijn

technag@gedore.nl
www.gedore.nl



Norway
Tech-Tools AS

Postboks 37
2021 Skedsmokorset

post@techtools.no
www.techtools.no



Poland
GEDORE Polska Sp. z o.o.

ul. Żwirki i Wigury 56a
43-190 Mikołów · Poland

gedore@gedore.pl
www.gedore.pl



Romania
S.C. Gero Tools S.R.L.

Comuna Selimbar
str. Mihai Viteazu nr. 245A
557260 Sibiu jud. Romania

calin.minduc@gerotools.ro
www.gerotools.ro



Slovakia
GEDORE Polska Sp. z o.o.

ul. Żwirki i Wigury 56a
43-190 Mikołów · Poland

gedore@gedore.pl
www.gedore.pl



Spain
GEDORE Ibérica, S.L.

c/Arangutxi 12 · Pol. Ind. Júndiz
01015 Vitoria - Alava

gedore@gedore.es
www.gedore.es



Sweden
Hydro Pascal AB

Flamtegelvägen 53
23839 Oxie

info@hydropascal.com
www.hydropascal.com



Switzerland
Atico AG

Dammstraße 7
8112 Otelfingen

info@atico.ch
www.atico.ch

	Turkey GEDORE el Aletleri SAN. ve TIC. Ltd. Sti	İstanbul Ankara Karayolu 35. km TR 34953 Tuzla-İstanbul	info@gedore.com.tr www.gedore.com.tr
	United Kingdom GEDORE Torque Ltd.	Tannery Lane, Gosden Common Bramley, Guildford, Surrey, GU5 0AJ	salesandrepairs@gedore-torque.com www.gedore-torque.com
	United Kingdom LÖSOMAT UK	Unit 7 Springvale Business Centre Millbuck Way · Sandbach · Cheshire CW11 3HY	sales@losomat.co.uk www.losomat.co.uk
	Ukraine GEDORE Polska Sp. z o.o.	ul. Żwirki i Wigury 56a 43-190 Mikołów · Poland	gedore@gedore.pl www.gedore.pl

Worldwide

	Brazil Ferramentas GEDORE do Brasil S.A.	Rua Vincentina Maria Fidelis, 275 Sao Leopoldo-RS CEP 93025-340	sales@gedoretools.com www.gedore.com.br
	Brazil KDOWIDAT Ferramentas Especiais LTDA	Rua da Aviacao, 141 7053140 Guarulhos – SP – Brasil	ricardo.ciquiguti@gedore.com.br www.gedore.com.br
	Chile Comercializadora Servi All Ltda.	Los Topacios No. 573 La Chimba · 124000 Antofagasta	ventas@serviall.cl www.serviall.cl
	China GEDORE Tool Trading (Shanghai) Co. Ltd.	B1/f., Block 2, 1358 Pingan Road, Minhang Shanghai, China 201109	info@gedore.cn www.gedore.cn
	Dubai GEDORE TOOLS MIDDLE EAST FZE	P.O. Box 372042 West Wings 3 Office # 209 Dubai Airport Free Zone	
	India GEDORE India Private Ltd.	374, Udyog Vihar Phase II Guragon – 1220016, Haryana	info@gedore.in www.gedoreindia.com
	India Mekaster Tools Ltd.	908, Ansal Bhawan 16, Kasturba Gandhi Marg New Delhi – 110 001	support@mekastertools.com www.mekastertools.com
	Russia OOO GEDORE Tool Center	ul. Bakhruschina H32 G 1 115054 Moskau Tel. 007/495/7240074	GTC000-Russia@gedore.com
	South Africa / Africa GEDORE Tools S. A. (PTY) Ltd.	P.O. Box 68 New Germany 3620	general@gedoresa.co.za www.gedore.com.br
	South Korea Dong Jin Power Co. Ltd.	RA-1226, Chungang Circulation Complex Seoul	dongjin@djpowers.co.kr
	South Korea Enertec Korea	Daejo-2dong, Kangseo-Gu Busan, 618-804 Korea	enertec@enertekorea.co.kr www.enertekorea.co.kr
	Taiwan DEAMARK Ltd.	No. 6, Lane 5. Lin Sen N. Rd. 100 R.O.C Taipei	tomlee@deamark.com.tw www.deamark.com.tw
	USA GEDORE TOOLS, INC.	7187 Bryhawke Circle, Suite 700 North Charleston, SC 29418	info@gedoretool.com www.gedoretools.com