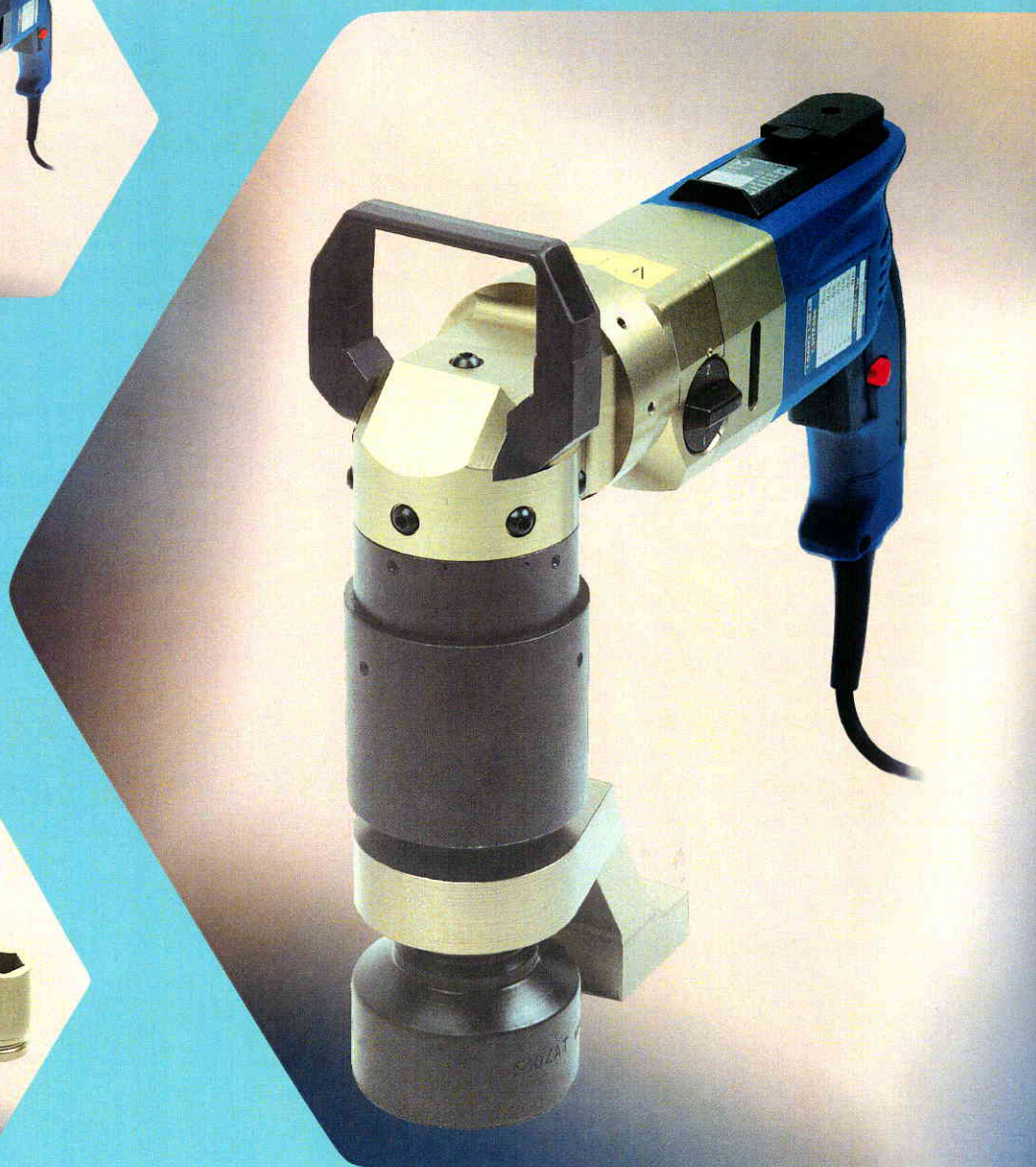
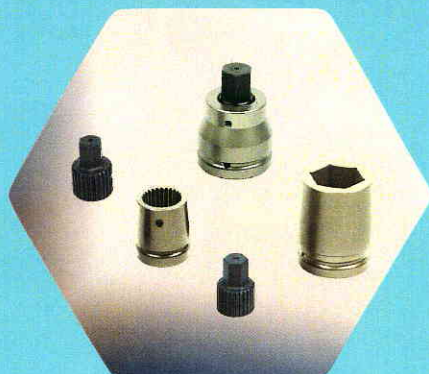


# LÖSOMAT HIGH TORQUE ELECTRIC WRENCH



LDE Series – Straight version  
LEW Series – Angled version



The further-developed series of high torque electric wrenches -  
even lighter, even more robust, even more reliable.

## HIGH TORQUE ELECTRIC WRENCHES

We supply precise torques from 100 up to 13.000 Nm



### Maximum torque at minimum dimensions and minimum weight

These advantages are particularly valued by the demanding user of LÖSOMAT in everyday work. It has been possible to save yet more unnecessary weight on the main components of the new power gear. At the same time, the bearing of the moving parts has been improved tremendously, which leads to a clear extension in the life of the whole screwdriver. Equipped with the control electronics, designed for rough permanent use, this series is again a true LÖSOMAT.

### Patented torque and control electronics ensure trouble-free working with precise torques, while being safe from accidents

Continuously turning through to the maximum torque, and without any impact work, LÖSOMAT high torque wrenches are quiet and reliable. An infinitely adjustable torque offers the desired level of comfort. An accidental adjustment is not possible due to a protective cover on the potentiometer. The rotary drive unit provides safety while making it easier to place the wrench on the bolt connection. Support and impact sockets are coordinated to the optimum - meaning that there is no tilting. A safe absorbing of the reaction forces and the ergonomic pistol grip provides a positive handling, thus it is possible to work without getting tired. The user can concentrate fully on tightening or loosening tasks.

### Test certificate provides traceability in line with DIN EN ISO 9001:2000

Each individual LÖSOMAT high torque electric wrench is calibrated to its torque range in the factory and provided with a test certificate. The deviation in torque on the same tightening and loosening task normally lies well below 3%.

Only the individual LÖSOMAT-test certificate and the extremely high quality standard of our products give the traceability, which is

required of every QM-System according to DIN EN ISO 9001:2000. A LÖSOMAT is 100% Made in Germany.

### Your application, our challenge

For many of our customers, we produce special versions of our high torque wrenches, which are precisely designed for the appropriate tightening and loosening task.

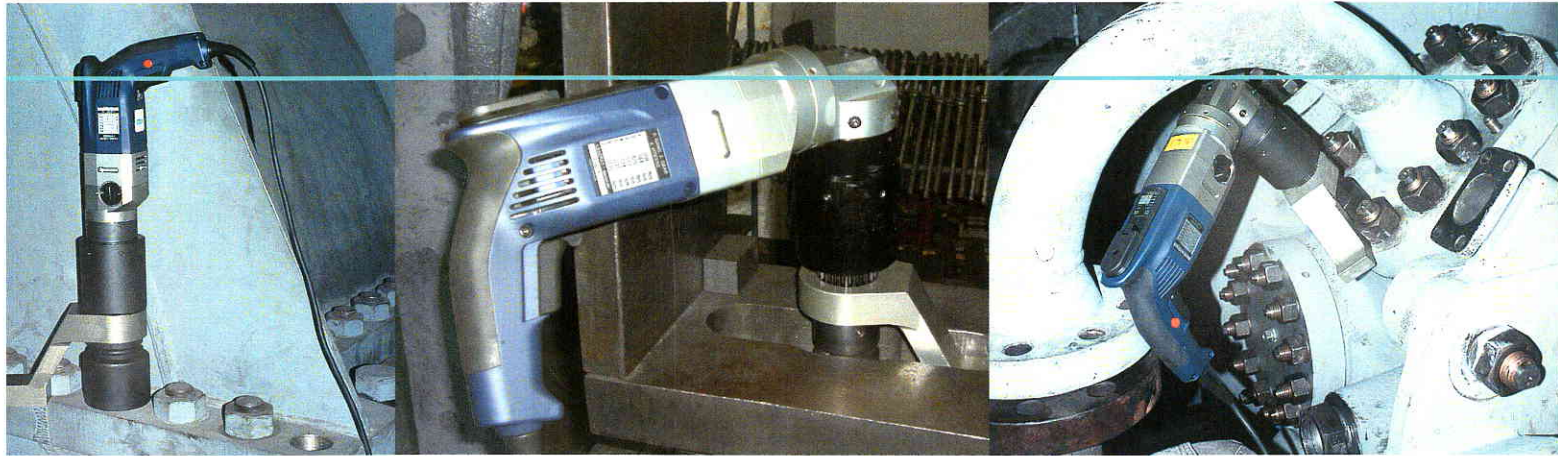
### Optional accessories, for example:

- Toothed inhex socket holders with toothed hexagonal inserts for the highest stresses
- Weight-optimised impact sockets with square drive, adapted to the supports
- Special supports, precisely conceived for your tightening and loosening tasks



## HIGH TORQUE ELECTRIC WRENCHES

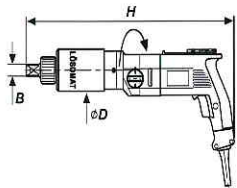
Solving extreme tightening and loosening problems, even if there is little space



### The advantages of LÖSOMAT high torque electric wrenches

- Patented, robust control electronics
- Test certificate for the individual machine included
- Customer-specific calibrations
- Infinitely adjustable torque
- Repeated torque accuracy for the same tightening and loosening task is < 3%
- Smallest dimensions at largest torque and lowest weight
- **NEW:** Three times longer life of the power gear, due to completely new bearings
- Ergonomic design
- Pivoting and swivelling driving unit
- Extensive range of accessories
- **NEW:** Annual tool inspection from model year '07 (excluding freight costs and spare parts) at no extra cost
- Many different special designs

Technical details Series LDE  
Straight version

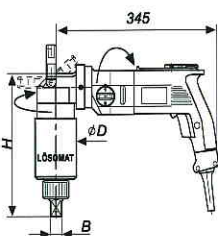


|                          |       | NEW    |         |        |        |        |        |        |        |        |         |  |
|--------------------------|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--|
| Type                     |       | LDE-05 | LDE-075 | LDE-12 | LDE-16 | LDE-28 | LDE-40 | LDE-60 | LDE-70 | LDE-90 | LDE-120 |  |
| Min. torque * (approx.)  | Nm    | 90     | 100     | 250    | 300    | 500    | 750    | 1000   | 1200   | 2000   | 3000    |  |
| Max. torque ** (approx.) | Nm    | 500    | 770     | 1280   | 1600   | 2800   | 4000   | 6000   | 7500   | 9000   | 13000   |  |
| Idling speed n2          | 1/min | 50     | 25      | 22     | 15     | 5      | 4      | 3,5    | 3      | 2,5    | 1,5     |  |
| Square drive             | B     | ¾"     | ¾"      | 1"     | 1"     | 1"     | 1½"    | 1½"    | 1½"    | 1½"    | 1½"     |  |
| Max. diameter            | D     | 80     | 80      | 88     | 88     | 88     | 88     | 102    | 128    | 138    | 174     |  |
| Height incl. square end  | H     | 385    | 440     | 465    | 465    | 490    | 495    | 500    | 520    | 520    | 540     |  |
| Weight incl. support *** | kg    | 4,5    | 5       | 7      | 7      | 8,5    | 9      | 10     | 14     | 16     | 23      |  |

Details are unbinding, deviations are possible.

Subject to alterations!

Technical details Series LEW  
Angled version



|                          |       | NEW    |         |        |        |        |        |        |        |        |         |  |
|--------------------------|-------|--------|---------|--------|--------|--------|--------|--------|--------|--------|---------|--|
| Type                     |       | LEW-05 | LEW-075 | LEW-12 | LEW-16 | LEW-28 | LEW-40 | LEW-60 | LEW-70 | LEW-95 | LEW-120 |  |
| Min. torque * (approx.)  | Nm    | 90     | 100     | 250    | 300    | 500    | 750    | 1000   | 1200   | 2000   | 3000    |  |
| Max. torque ** (approx.) | Nm    | 500    | 770     | 1280   | 1600   | 2800   | 4000   | 6000   | 7500   | 9500   | 13000   |  |
| Idling speed n2          | 1/min | 40     | 22      | 20     | 15     | 5      | 4      | 3,5    | 3      | 2,5    | 1,5     |  |
| Square drive             | B     | ¾"     | ¾"      | 1"     | 1"     | 1"     | 1½"    | 1½"    | 1½"    | 1½"    | 1½"     |  |
| Max. diameter            | D     | 80     | 80      | 88     | 88     | 88     | 88     | 102    | 128    | 138    | 174     |  |
| Height incl. square end  | H     | 180    | 220     | 240    | 240    | 270    | 280    | 290    | 310    | 320    | 330     |  |
| Weight incl. support *** | kg    | 4,5    | 5       | 7      | 7      | 8,5    | 9      | 10     | 14     | 16     | 23      |  |

Details are unbinding, deviations are possible.

\* Lowest torque in second gear. \*\* Maximum torque in first gear. \*\*\* Option: Extra light supports. Dimensions in mm. Delivery with individual LÖSOMAT-test certificate. At operating temperature and constant mains voltage of 230 V, the torque tolerance on the same tightening and loosening task is less than ± 3%.

Subject to alterations!

Made in Germany

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Audited acc. to DIN EN ISO 9001:2000



## HIGH TORQUE ELECTRIC WRENCHES

For hard use under extreme conditions, such as steel construction or crane assembly



In some areas of application, electric torque wrenches have to provide an even better performance. LÖSOMAT has concentrated upon such situations. Decades of experience and development, combined with the known high quality standard, show particular advantage with the torque wrenches offered. As for every wrench out of series production, you can rely absolutely on the recognised torque precision for these special versions as well. LÖSOMAT also guarantees safety here with the LÖSOMAT-test certificate.

### The special solution for crane technology

LÖSOMAT high torque electric angled wrenches LEW-60L and LEW-95L, specifically designed for HT bolt connections on tower elements from Liebherr, construction types HC + EC, with „Liebherr calibration“ and precisely coordinated, extra light accessories for HC + EC construction types.

LEW-60L; Tightening from M33 to M39 (10.9 and 12.9)

LEW-95L; Tightening of M45 (10.9 and 12.9)

Oversized loosening torques for dismantling. Special fittings and calibrations for other crane makes can be supplied.

### The special solution for steel construction

LÖSOMAT high torque electric wrenches

LDE-/LEW- 09ST; Tightening HT connections from M12 to M24 (10.9)

LDE-/LEW- 16ST; Tightening HT connections from M16 to M30 (10.9)

LDE-/LEW- 28ST; Tightening HT connections from M20 to M36 (10.9)



### Technical details

| Type                     |       | LDE-09ST | LDE-16ST | LDE-28ST | LEW-09ST | LEW-16ST | LEW-28ST | LEW-60L | LEW-95L |
|--------------------------|-------|----------|----------|----------|----------|----------|----------|---------|---------|
| Min. torque * (approx.)  | Nm    | 120      | 300      | 450      | 120      | 300      | 450      | 1200    | 2000    |
| Max. torque ** (approx.) | Nm    | 900      | 2200     | 3200     | 900      | 2200     | 3200     | 6800    | 9500    |
| Idling speed n2          | 1/min | 22       | 7        | 5        | 18       | 7        | 5        | 3,5     | 2,5     |
| Square drive             | B     | ¾"       | 1"       | 1"       | ¾"       | 1"       | 1"       | 1½"     | 1½"     |
| Max. diameter            | D     | 80       | 88       | 88       | 80       | 88       | 88       | 102     | 138     |
| Height incl. square end  | H     | 440      | 470      | 490      | 220      | 250      | 270      | 290     | 320     |
| Weight incl. support *** | kg    | 5        | 7,5      | 8,5      | 5        | 7,5      | 8,5      | 10      | 16      |

Details are unbinding, deviations are possible.

\* Lowest torque in second gear. \*\* Maximum torque in first gear. \*\*\* Option: Extra light supports. Dimensions in mm. Delivery with individual LÖSOMAT-test certificate. At operating temperature and constant mains voltage of 230 V, the torque tolerance on the same tightening and loosening task is less than ± 3%.

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