



## SPECIAL SOLUTIONS FOR CUSTOMER SPECIFIC REQUIREMENTS

GATE VALVE  
WRENCH LDA-S



GATE VALVE  
WRENCH LDE-S



GATE VALVE  
WRENCH LEW-S



SIDE POWER  
WRENCH LES



SIDE POWER  
WRENCH LPS



HEAVY DUTY  
TORQUE WRENCH  
LHD





SPECIAL SOLUTIONS

THE GATE VALVE WRENCHES  
SERIES LDA-S, LDE-S, LEW-S

Microprocessor-controlled  
switch-off electronics

Brushless Technology  
low-maintenance

Torque values readable  
on the label

Gentle opening and closing of  
gate valves

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

Ergonomic grip for  
safe & non-fatiguing use

Infinitely adjustable  
breakaway torque for  
individual settings on  
your gate valves

With LED status  
signal



Optional: counter – bidirectional

LDE-S (electric)  
Display with integrated counter



LEW-S (electric)





## Open every gate valve with these tools

Our gate valve wrenches are derived from the development of precision torque wrenches. Once again, unnecessary weight has been saved in this new generation. At the same time, the mountings of the moving parts in the rugged planet gear unit were improved, leading to an enormous increase in service life of the entire machine.

## Impact-free and accident-free work, even with difficult gate valves

Our gate valve wrenches work fast and reliable. The electronically infinite torque settings and the soft start-up behaviour of the motor make an unexpected tearing away of the gate valve spindle impossible.

## Optimal working weight of just 3.9 kg with a breakaway torque of over 900 Nm

Our gate valve wrenches are consistently weight-optimised without losing any operating comfort or the necessary safety. The complete motor unit can be rotated through 360° in all models and adapts comfortably to your application. The reaction forces are securely accommodated by the device. The operator can easily open even jammed gate valves.

## Various drive systems for flexible applications

The gate valve wrenches are available with electric or cordless power systems. Determine for yourself about the gain in output, safety, flexibility and time when opening/closing your gate valves in your pipe network.





SPECIAL SOLUTIONS

## SERIES LDA-S

Robust battery technology  
for gate valve wrenches

The cordless gate valve wrench battery equipment is a real highlight under the gate valve wrenches.  
Battery-operated but just as strong as a mains-based AC wrench, it provides a powerful breakaway torque of max. 1000 Nm.

Flexible maintenance work  
and pipe network maintenance

From now on, you can work with your gate valve wrench whenever you want, wherever you want and as long as you want to.  
Even with this design, the torque can be reduced during operation without reducing the speed until the best possible security is achieved for the gate valve and the operator.



### Scope of delivery

- › Device
- › Reaction arm, straight (light alloy)
- › 3x Lithium-ion battery (90 Wh/18 V/5 Ah)
- › Charger 220-240 V; 50/60 Hz or 110-120 V; 50/60 Hz for USA
- › Tool box
- › Operating instructions

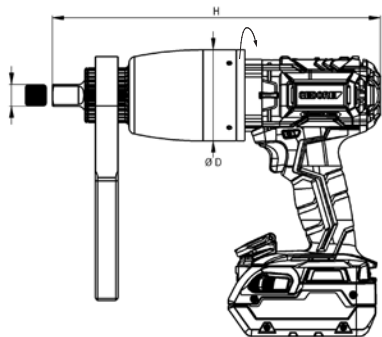


### Optional accessories

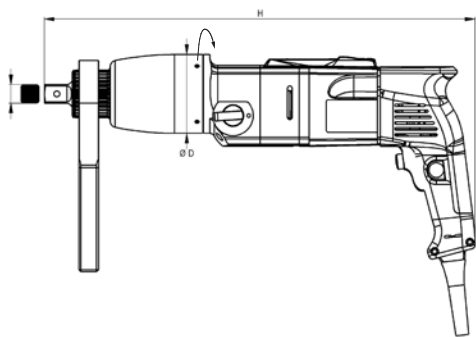
- › Reaction arm double-sided version
- › Telescopic slide rod
- › Hand lever extension (approx. 800 mm long)
- › Fixed slide rod (approx. 950 mm long)
- › Charger with 12/24V connector (specifically LDA-S)
- › Counter – bidirectional
- › Adapter 3/4" on conical square drive; 32 or 50 mm
- › Cardan joint
- › Hand wheel adapter



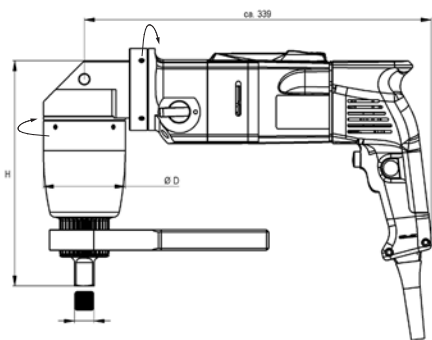
\*Illustration similar





LDA-S – battery-operated



LDE-S – electric straight version



LEW-S – electric angled version

Typ	~ N·m max <sup>*1</sup>	~ lbf·ft max <sup>*1</sup>	~ U/min		Ø D mm	H mm	 kg <sup>*2</sup>
LDA-05S	500	370	46	3/4"	80	255	3.3 <sup>*3</sup>
LDA-07S	700	520	29	3/4"	80	287	3.9 <sup>*3</sup>
LDA-09S	900	670	23	3/4"	80	287	3.9 <sup>*3</sup>
LDE-075S	770	570	25	3/4"	80	440	5.1
LDE-09S	900	670	17	3/4"	80	440	5.2
LEW-09S	900	670	18	3/4"	80	220	6.5

<sup>\*1</sup> Breakaway torque in 1st gear

<sup>\*2</sup> Without reaction arm

<sup>\*3</sup> With Battery: 740g

Other torques on request

Vibration is less than 2.5 m/s<sup>2</sup>

The continuous sound pressure as per DIN 455635 is < 70 dB(A)

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NEW:

We have extended our gate valve wrenches by one function  
Earth anchor insertion made easy

Flexible and easy insertion of earth anchors up to approx. 1m\*, for example for signs, Fence, GaLa construction, masts and much more.

With optional accessories to make work easier into the earth anchor:

- › Adapter 3/4" iVκ with toothing
- › Hand lever extension heavy version (approx. 1000 mm long)
- › Level round
- › Cardan joint 3/4" for support with telescopic slide rod



SPECIAL SOLUTIONS

# THE SIDE POWER WRENCH

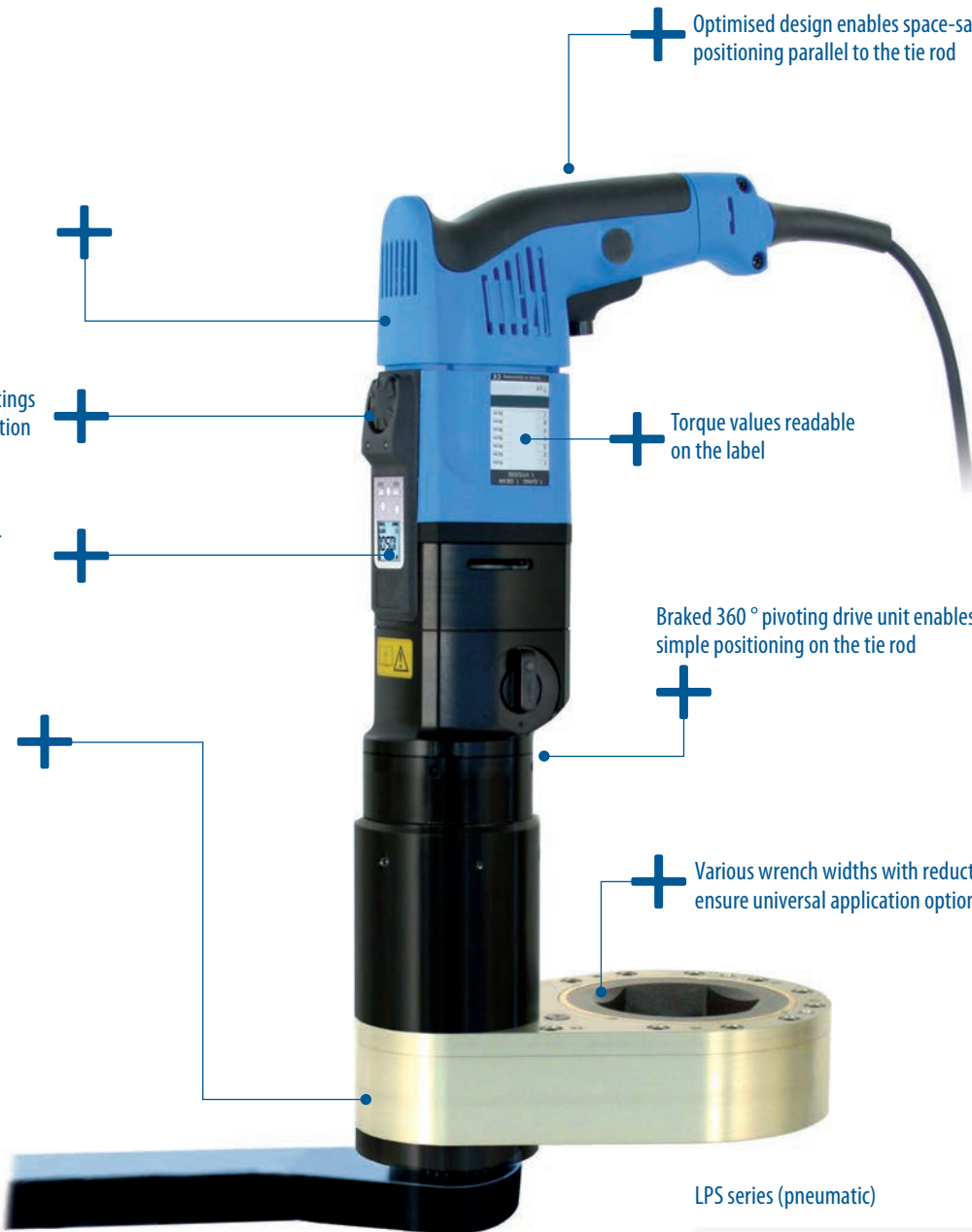
## LES/LPS SERIES

Patented switch-off electronics protected against spray water and moisture

Infinitely adjustable torque settings with electronic overload protection

Display with integrated counter and countdown function

Patented tandem gear pulley for secure transmission of large torques up to 4800 Nm




Optimised design enables space-saving positioning parallel to the tie rod

Torque values readable on the label


Braked 360 ° pivoting drive unit enables simple positioning on the tie rod

Various wrench widths with reduction inserts ensure universal application options

LES-09 series



LPS series (pneumatic)



Accessories: Hexagon adapter

⬡	36 mm	41 mm	46 mm	50 mm	55 mm	60 mm	65 mm	70 mm	75 mm	80 mm
55	•	•	•							
60	•	•	•	•	•					
70	•	•	•	•	•					
80	•	•	•	•	•	•	•	•		
95						•	•	•	•	•



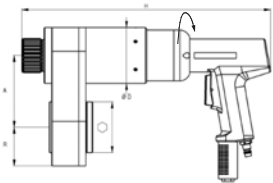
### Specially developed for working on plate heat exchangers

We have specially developed various series of side power wrenches in this sector for the safe assembly and disassembly of plate heat exchanger systems. They work fast and reliable, are weight-optimised and designed to be user-friendly. Regardless of whether your exchanger systems are equipped with or without thrust bearings, we have the appropriate system for all types to make your work as easy and comfortable as possible. Our side power wrenches are available with electric or pneumatic drives.

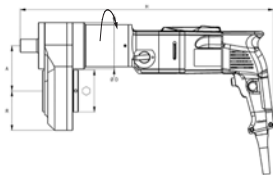
### The alternative for smaller plate heat exchangers

The LES-09 model is our entry model with a torque up to 1600 Nm. These side power wrenches are impressive because of their practical and simple operation, particularly for smaller plate heat exchanger versions. High-performance aluminium ensures lower weight and the rotating hand grip adapts individually to the requirements of the user. The enormous bolting speed that is characteristic. The set includes a hexagon adapter for the next smallest wrench width, including the holder for attaching the adapter to the basic unit.

### Technical data



LPS - pneumatic



LES - electric

Type	~ N·m max*1	~ lbf·ft max*1	~ U/min*2	⬡ mm	A/R mm	H mm	⚖ kg *3
LPS-1/60	3000	2200	7	60	112/61	396	10.0
LPS-1/80	3600	2650	5	80	118/75	396	12.0
LPS-1/95	4800	3500	4	95	135/95	396	13.0
LES-16/60	3000	2200	7	60	112/61	503	11.1
LES-16/70	3600	2650	5	70	118/75	503	11.7
LES-16/80	3600	2650	5	80	118/75	503	11.7
LES-16/95	4800	3500	4	95	135/95	503	13.6
LES-09/55	1600	1180	13	55	86/75	480	10.0
LES-09/60	1600	1180	13	60	86/75	480	9.8

\*1 Series LES: Breakaway torque in 1st gear

\*1 Series LPS: Breakaway torque at 7 bar

The LES-09 series is supplied with a support plate (reaction arm not required)

\*2 Series LES: Maximum speed in 2nd gear

\*2 Series LPS: Maximum speed at 7 bar

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\*3 Without reaction arm

Vibration is less than 2.5 m/s<sup>2</sup>



### Scope of delivery

- › Device
- › Reaction arm, straight (light alloy) (only LES-16/LPS-1)
- › 1x Hexagon adapter (only LES-09)
- › 1x Holder (only LES-09)
- › Tool box
- › Operating instructions



### Optional accessories LES/LPS

- › Reaction arm cranked with lock on function made of chrome vanadium steel (only LES-16/LPS)
- › Hose (4 m, only LPS)
- › Maintenance unit (only LPS)
- › Further hexagon adapter
- › Further holder





SPECIAL SOLUTIONS

# THE HEAVY DUTY TORQUE WRENCH LHD SERIES



## Scope of delivery

- › Device
- › Reaction arm cranked with lock on function made of chrome vanadium steel
- › Powerbox 180–264 V AC / 47–63 Hz
- › Tool trolley
- › Operating instructions
- › Factory calibration certificate



## Optional accessories

- › Module LD.TRACK, LD.QS

The new heavy duty screwdriver up to 7500 Nm

Proven system process with digital colour display

The new torque wrench, combining power and speed: more than twice as fast as other suppliers - for a faster insertion bolt by bolt.  
Reliable operation in all weathers.

The built-in, low-maintenance brushless technology (brushless, low-wear DC drive) ensures a longer tool life.

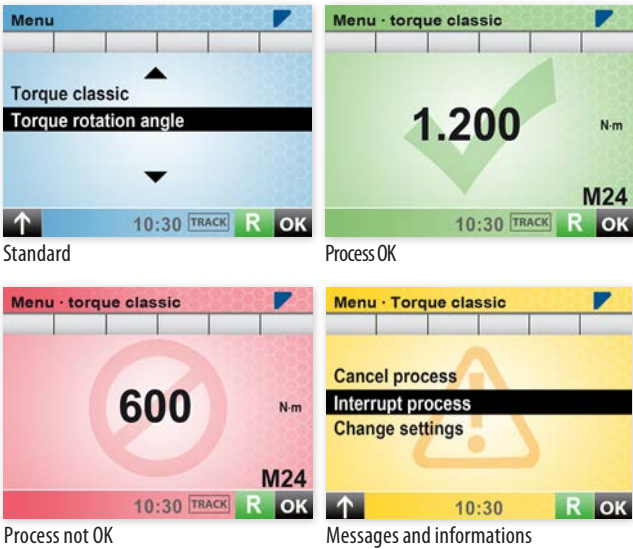
For maximum precision, the LHD offers an visual and acoustic zero-defect strategy: a sunlight-readable, digital colour display displays the entire workflow visually; in addition, an acoustic signal sounds as soon as the set value is reached.  
(Further information on page 16)

Bolting software for data logging and quality assurance archiving

The logging of more than 10,000 bolted connections is possible with the optional available module TRACK. With the optional QS module, any number of bolted connections can be defined and stored. This greatly simplifies work on the construction site and reduces the time required.

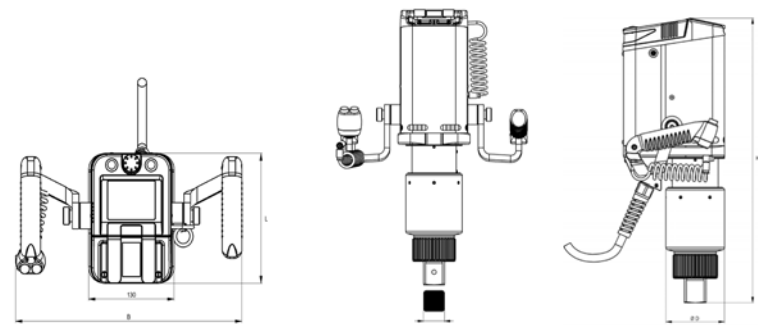
Powerbox + accessory case for cable

Due to strong voltage fluctuations it is difficult to use electrically torque wrenches with the required accuracy. With the LHD heavy duty torque wrench, this is avoided by a voltage conversion using our power box - this way the device is always provided with the necessary voltage for proper function.



Technical Data

More information about documentation modules see pages 52/53



Type	~N-m min/ max	~ lbf·ft min/ max	~ U/min	■	Ø D mm	L mm	B mm	H mm	kg
LHD-75	800 - 7500	590 - 5530	10,3	1½"	102	175	345	497	14.6

Further torque ranges on request.

Type	Input voltage	Output voltage	P	L mm	B mm	H mm	kg
Powerbox	180–264 V AC / 47–63 Hz	48 V DC	3.000 W	380	445	160	9.4

Protection: IP32      Protection class I