

OMEPHA ALEMANIA MÉXICO
Fuente de la Lluvia 263
Colonia Balcones de Valle
78280 San Luis Potosí, S.L.P., México

Tel (444) 820 5465
Cel (444) 104 1350
info@omepha-alemania-mexico.com
www.omepha-alemania-mexico.com

Special Solutions



The Gate Valve Wrenches Series LDA-S, LDE-S, LEW-S

LDA-S series

Infinitely adjustable breakaway torque for individual settings on your gate valves

Flexible drive systems:
electric and battery-operated

2-speed gearbox
for 3x higher speed

Rugged planet gear unit for high
breakaway torques

Optional counter



LEW-S



LDE-S

Display with integrated counter





Open every gate valve with these tools

LÖSOMAT 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

LÖSOMAT gate valve wrenches work rapidly and reliably without wear-inducing slip-coupling. The electronically infinite torque settings and the soft start-up behaviour of the motor make a sudden tearing away of the gate valve spindle impossible.



Optimal working weight of just 4.7 kg with a breakaway torque of over 900 N·m

LÖSOMAT 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 case due to the ergonomic design. The reaction forces are securely accommodated by the device.

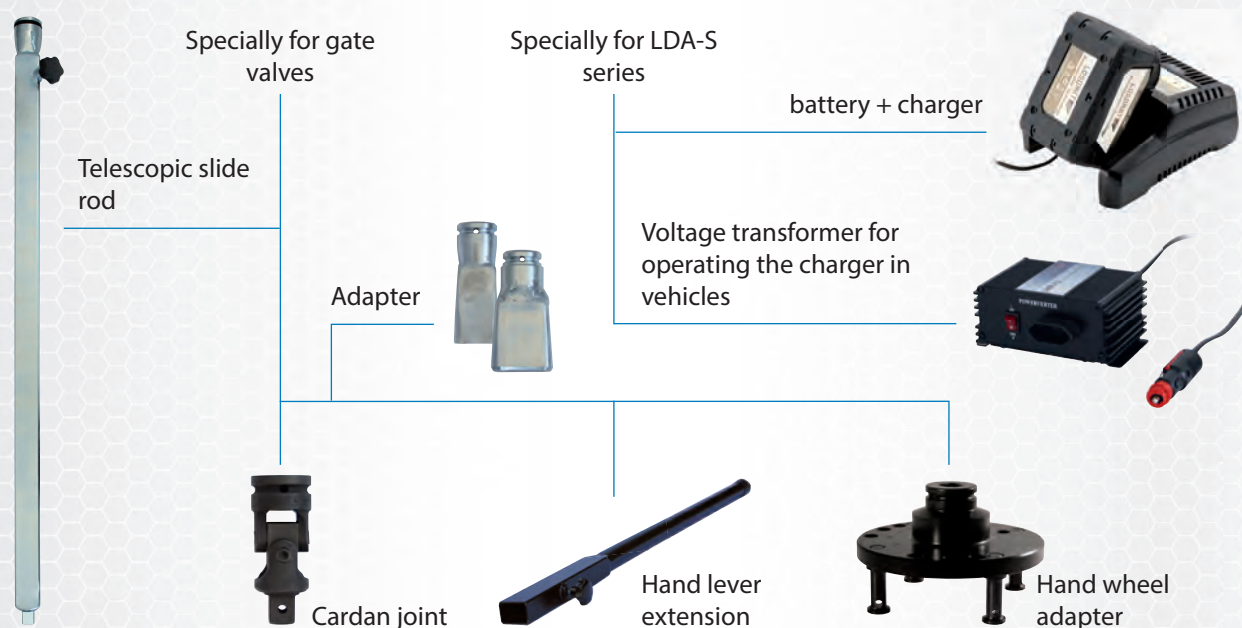
The operator can easily open even jammed gate valves up to size DN 1,000.

Various drive systems for flexible applications

The LÖSOMAT gate valve wrenches are available with electric or cordless power systems.

Determine your own gains with regards to working safety, flexibility and time when opening/closing your gate valves in your pipe network.

Accessories



LDA-S series

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. 900 N·m.

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 operator.

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.

The LÖSOMAT gate valve wrenches work with lithium ion technology (Li-Ion) instead of conventional nickel-

cadmium batteries (Ni-Cd).

These are characterised by 100% more operating time per charge compared to Ni-Cd batteries.

This provides you with peak performance during the entire usage time without speed or torque loss.



Reserve capacity of battery and charger



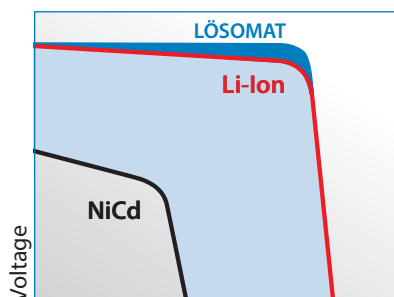
The charging time on the charger is approx. 30-50 min when the battery is empty. Once the battery is fully charged, the charger LED changes from red to green



The flashing LED signals that the battery has a reserve capacity of 10%



Lithium ion technology



Discharging during work

Pressure switch for displaying the charge status

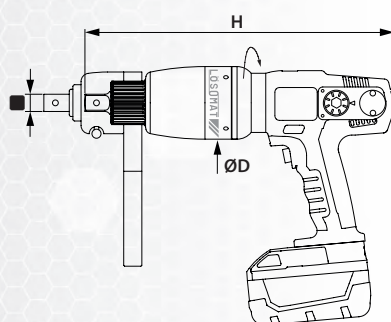
Four lit up LEDs signal that the battery is fully charged



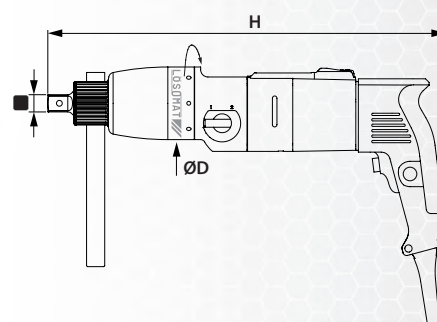


Technical data

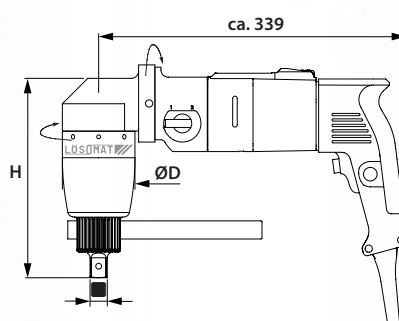
LDA-S battery-operated



LDE-S electric straight version



LEW-S electric - angled version



Type	~ N·m max ^{*1}	~ lbf·ft max ^{*1}	~ U/min	■	Ø D mm	H mm	kg ^{*2}
LDA - 05S	500	370	60	3/4"	80	308	4.3
LDA - 07S	700	520	41	3/4"	80	319	4.5
LDA - 09S	900	660	30	3/4"	80	340	4.7
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

*1 Breakaway torque in 1st gear

Other torques on request

*2 Without reaction arm

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The Side Power Wrench LES/LPS series

LES 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 4,800 N·m (in LES-16/..)

LPS series



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

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

Various wrench widths with reduction inserts ensure universal application options

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

LÖSOMAT has specially developed various series of side power wrenches in this sector for the safe assembly and disassembly of plate heat exchanger systems.

They work rapidly and reliably, and are – like all LÖSOMAT devices – weight-optimised and designed to be user-friendly. Regardless of whether your exchanger systems are equipped with or without thrust bearings, LÖSOMAT has the appropriate system for all types to make your work as easy and comfortable as possible. The LÖSOMAT side power wrenches are available with electric or pneumatic drives.



The alternative for smaller plate heat exchangers

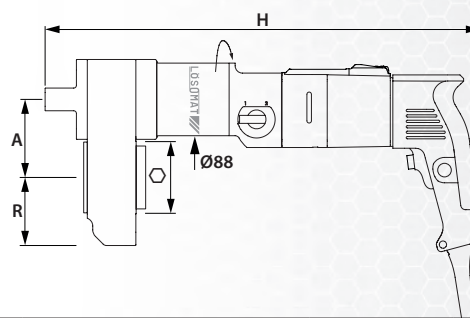
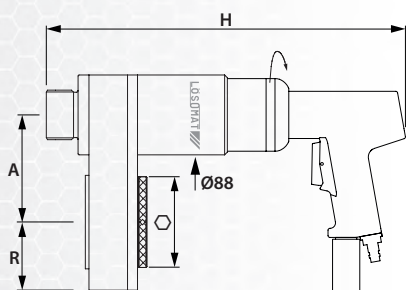
The LES-09 model is our entry models with torques up to 1,600 N-m. These side power wrenches are impressive because of their practical and simple operation, particularly for smaller plate heat exchanger versions.

High-performance aluminium ensures lower weight and the rotating hand grip adapts individually to the requirements of the user.

But, above all, it is the enormous bolting speed that is characteristic of both our new products.

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



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

*2 Series LES: Maximum speed in 2nd gear

*3 Without reaction arm

*1 Series LPS: Breakaway torque at 7 bar

*2 Series LPS: Maximum speed at 7 bar

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