

***General
Catalogue***

alkitronic®



Contents

EAF Battery Torque Multiplier
3

EFCip Electric Torque Multiplier
6

EF Electric Torque Multiplier
9

CL Pneumatic Torque Multiplier
12

CLD/L Pneumatic Torque Multiplier
15

Standard Accessories
17

Flange Boy
25

EAB/CLB Thread Cleaner
27

EAF

Battery driven torque
multiplier with release function



ready for use, everywhere

alkitronic® EAF

Applications

- **alkitronic® EAF:** Battery driven 2-speed torque multiplier from 160 Nm to 6,000 Nm / 120 lbf.ft to 4,430 lbf.ft.
- **Short fastening cycles:** Fast gear for run down and power gear for highest torques and precision.
- **Mobile and always ready for use:** Compact design for convenient working in limited spaces or without power supply.
- **Efficient operation:** Fast and easy gear-changing, great torque range - you can choose from 22 torque values.

Advantages

- **Integrated fully-automatic release function:** Caused by high torsional force it is often impossible repositioning the multiplier on the next bolt joint. The automatic release function enables a fast, secure "run free" of the reaction absorber **DMA** and also relieve stresses within the multiplier.
- **Low running costs:** The low-wear, synchronous motor is maintenance free.
- **Health-preserving:** Lowweight, ergonomically designed, low noise emissions. No noise protection necessary.
- **High performance:** Two lithium-ion battery packs ensure up to 360 screw joints in a row. Each battery features an LED charge level indicator.
- **Exact shut-off torque** even at low battery levels.

alkitronic® Specials

- **Very low susceptibility to damage and failure:** Motor housing made of special polymer: Break-proof, impact-proof and resistant to corrosion.
- **Intelligent energy management and faster workflow:** Electronics protects battery cells from overcharging and depth discharge. Cooled battery packs during recharging. This reduces charging times and enhances maximum performance and durability.
- **High-performance gears,** produced in a chip-free high-precision process.

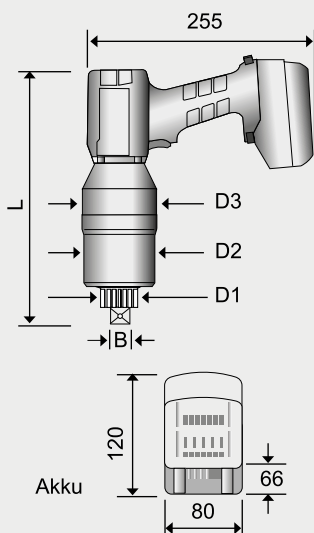


Technical Data

Type		EA2 / 80	EA2 / 150	EA2 / 200	EA2 / 280	EA2 / 300	EA2 / 400	EA2 / 600
Torque range (approx.) *	Nm	160-850	260-1400	300-2200	350-2800	370-3200	450-4100	600-6000
	lbf.ft	120-625	190-1035	220-1625	260-2065	275-2360	330-3025	445-4430
Square drive	B	3/4"	3/4"	1"	1"	1"	1 1/2"	1 1/2"
Diameter (approx.)	D ₁ mm	41	41	54	54	72	72	72
Diameter (approx.)	D ₂ mm	85	85	85	85	93	93	109
Diameter (approx.)	D ₃ mm	88	88	88	88	97	97	109
Length (approx.)	L mm	295	295	320	350	370	370	380
Weight without DMA (approx.) **	kg	5,6	5,6	6,4	7,5	7,5	9,2	9,0
Idle speed 1 st gear	rpm	8,0	4,0	3,0	1,8	1,5	1,5	0,8
Idle speed 2 nd gear	rpm	26,0	14,0	10,0	6,5	6,0	5,4	3,0

*) When loosening bolts, a higher torque (up to 20 %) may be necessary (release torque). We will be pleased to help you with your choice. **) Torque reaction arm

Measurements



Scope of Delivery



2 lithium-ion battery packs 18 V, 5.2 Ah, battery charger, tool case.



Repeat shut-off accuracy $\pm 3\%$ (same bolting connection).
All **alkitronic®** torque multipliers are CE-certified.

alkitronic®
HOME OF TORQUE POWER

alkitronic® products
Made in Germany by

alki TECHNIK GmbH
Development, Production and
Distribution of Bolting Systems

Unterlettenweg 4
85051 Ingolstadt
Germany

fon +49 841 97499-0
fax +49 841 97499-90

info@alkitronic.com
www.alkitronic.com

Product News

Battery Torque Multiplier EAW

Applications

- **alkitronic®EAW:** Battery powered 2-speed torque multiplier for torques from 90 Nm to 4,000 Nm. Angled design with high operating comfort.
- **Mobile and always ready for use:** Compact design for convenient working in limited spaces or without power supply.
- **Extremely short fastening cycles:** Fast gear for run down and power gear for highest torques and precision.
- **Efficient operation:** Fast and easy gear-changing, great torque range - each gear has eleven torque values to choose from.

Advantages

- **Low running costs:** The low-wear brushless synchronous motor is maintenance free.
- **Health-preserving:** Low weight, ergonomically designed, low noise emissions. No noise protection necessary.
- **High performance:** Two lithium-ion battery packs ensure up to 360 screw joints in a row. Each battery features a LED charge level indicator.
- **Exact shut-off torque even at low battery levels.**

alkitronic® specials

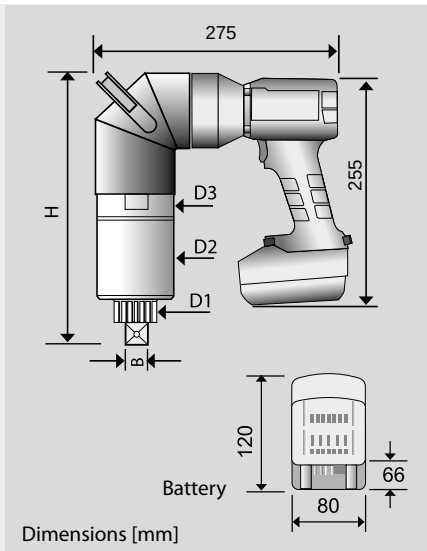
- **Very low repair requirements:** Robust motor housing made of special polymer. It is break-proof, impact-proof and resistant to corrosion.
- **Angle-drive with optimised efficiency and great running characteristics.**
- **Intelligent energy management:** Smart electronics protect every battery cell from overcharging and depth discharge.



Technical Data: alkitronic® EAW Models

Type		EAW2 / 80	EAW2 / 150	EAW2 / 200	EAW2 / 280	EAW2 / 300	EAW2 / 400
Torque range (approx.) *	Nm	115-860	150-1400	250-2200	300-2800	360-3200	500-4100
	lbf.ft	85-635	110-1030	185-1620	220-2065	265-2360	370-3025
Square drive	B	3/4"	3/4"	1"	1"	1"	1 1/2"
Diameter (approx.)	D ₁ mm	41	41	54	54	72	72
Diameter (approx.)	D ₂ mm	85	85	85	85	93	93
Diameter (approx.)	D ₃ mm	88	88	88	88	97	97
Height (approx.)	H mm	250	250	295	305	310	320
Weight without DMA (approx.) **	kg	7,5	7,5	9,0	9,5	9,5	11,2
Idle speed 1 st gear	rpm	7,0	4,0	2,0	1,7	1,5	1,0
Idle speed 2 nd gear	rpm	24,0	13,0	6,5	6,0	5,0	4,0

* When loosening bolts, a higher torque (up to 20 %) may be necessary (release torque). We will be pleased to help you with your choice. ** Torque reaction arm



alkitronic®

TORQUE POWER WORLDWIDE

EFCip
Electric
Torque Multiplier

allkitronic®



world's No. 1 choice

Applications

- **alkitronic® EFCip / ECWip** Electric Torque Multipliers from 60 to 6,500 Nm.
- **Consistent Torque accuracy** on all international power supplies 100 - 253V / 45-66 Hz.
- **Precise shut-off** with on-site voltage-controlled portable generators.
- Models **ECWip** angle tools low height for restricted access applications.

Advantages

- **Safe and interruption-free work in any weather** (moisture, rain) - thanks to protection class IP54.
- **Low running costs:** low-wear, maintenance-free and brushless synchronous motor.
- **Permanently higher joint quality** by continuous rotation of the square drive.
- **Simple 1-finger trigger operation** for forward and reverse.
- **OLED-Display** anti-glare and high contrast - for perfect reading under all weather conditions.
- **Menu-driven intuitive operation**, control or warning signals.
- **Ergonomic and comfortable operation:** The 360 degree rotating handle prevents reaction forces from being transferred to the operator.

alkitronic® specials

- **High-quality bolting** according to the **torque/angle procedure**.
- **Highly innovative generation of electric multipliers** with new sensorless control motor technology. Lower power consumption increases the service life of the electronic components.
- **Repeat shut-off accuracy** $\pm 2\%$ for the same bolting application.
- **Robust and long lasting:** motor housing of cast aluminum.



Specifications

Update packages:

Bluetooth interface for communication and documentation of bolting applications.

Modular software solutions for the upgrading of user-specific applications.

Special solution: presetting of torque to 5 Nm precisely is possible.

All **alkitronic®** torque multipliers with CE-certification.

Electrical data:

Universal AC input 100 V – 253 V, frequency 45 Hz – 66 Hz.

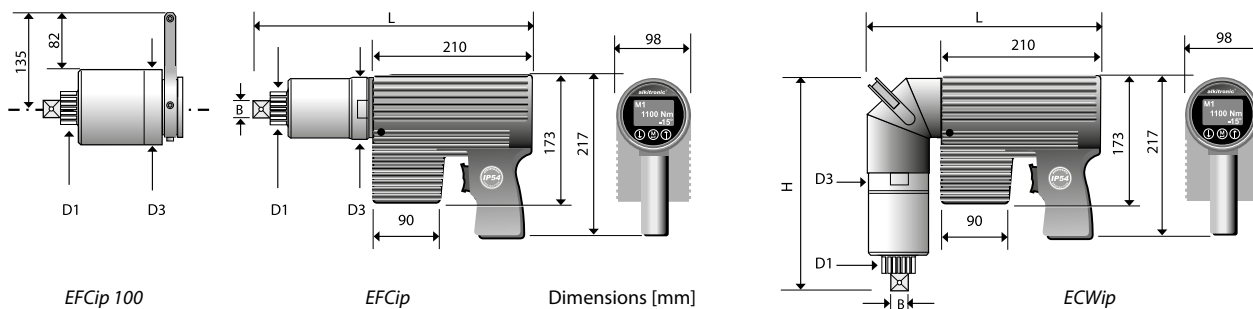
Power max. 1100 W, protection category I, protection class IP 54 (standard).



alkitronic® EFCip, intuitively operable user interface with graphics-capable OLED-display.
Image right **EFCip** use in steel construction.



Technical Data



Models EFCip

Type		EFCip 10	EFCip 20	EFCip 30	EFCip 40	EFCip 50	EFCip 60	EFCip 65	EFCip 70	EFCip 80	EFCip 90	EFCip 100
Torque range (approx.) *	Nm	60-420	80-650	100-950	150-1550	190-1850	250-2300	290-2900	350-3500	440-4300	500-5300	650-6500
Torque range (approx.) *	lbf.ft	45-310	60-480	75-700	110-1145	140-1365	185-1700	215-2140	260-2580	325-3170	370-3010	480-4795
Square drive	B	3/4"	3/4"	3/4"	1"	1"	1"	1"	1 1/16"	1 1/2"	1 1/2"	1 1/2"
Diameter (approx.)	D ₁ mm	41	41	41	54	54	54	54	72	72	72	72
Diameter (approx.)	D ₃ mm	88	88	88	88	88	88	88	98	98	109	109
Length (approx.)	L mm	330	330	330	382	382	388	388	406	406	405	430
Weight without DMA (approx.)	kg	9	9	9	10	10	11	11	13	13	14,5	15,5
Idle speed	rpm	70	40	30	15	14	11	8	7	5	4	3

Models ECWip

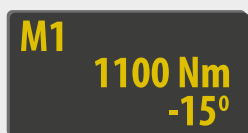
Type		ECWip 10	ECWip 20	ECWip 30	ECWip 40	ECWip 50	ECWip 60	ECWip 65	ECWip 70	ECWip 80	ECWip 90	ECWip 100
Torque range (approx.) *	Nm	60-420	80-650	100-950	150-1550	190-1850	250-2300	290-2900	350-3500	440-4300	500-5300	650-6500
Torque range (approx.) *	lbf.ft	45-310	60-480	75-700	110-1145	140-1365	185-1700	215-2140	260-2580	325-3170	370-3010	480-4795
Square drive	B	3/4"	3/4"	3/4"	1"	1"	1"	1"	1 1/16"	1 1/2"	1 1/2"	1 1/2"
Diameter (approx.)	D ₁ mm	41	41	41	54	54	54	54	72	72	72	72
Diameter (approx.)	D ₃ mm	88	88	88	88	88	88	88	98	98	109	109
Length (approx.)	L mm	310	310	310	310	310	310	310	318	318	326	315
Height (approx.)	H mm	249	249	249	300	300	305	305	315	315	345	350
Weight without DMA (approx.)	kg	12	12	12	13	14	14	14	16	16	17	18
Idle speed	rpm	70	40	30	15	14	11	8	7	5	4	3

*) When loosening a bolted connection, up to 20% higher torque may be required (loosening torque). We will gladly advise you in detail.

OLED Display EFCip / ECWip

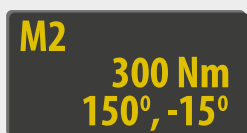
Example software packages

Softwarepackage 1 (standard)



Mode 1
Bolting via torque.
Automatic relief according to
pre-set angle degrees.

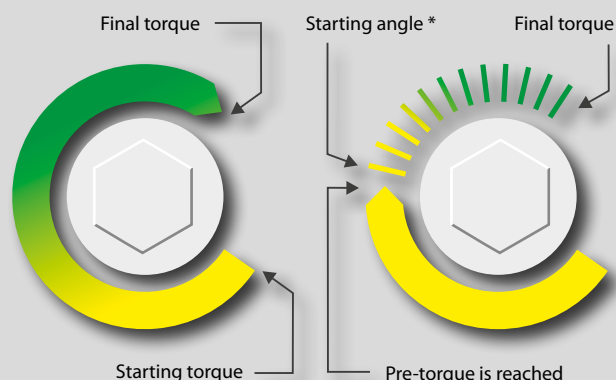
Softwarepackage 2 (option)



Mode 2
Torque/angle procedure for high-
quality bolting connections. Display
example of pre-torque, angle and
loosening angle.

Software package 1 is pre-installed in the basic version.
For user-specific bolting applications or settings other software packages
are available.

Chart Mode 1 and Mode 2



* Information on rotational angle setting for torque/angle method.

- The angle of rotation is specified constructively for the bolting connection.
- The angle of rotation can be determined individually and easily with **alkitronic® HSD**. We will gladly provide you with detailed product information.

EF

Electric
Torque Multiplier



alkitronic®

Applications

- **alkitronic® EF / EFW** electrical torque multipliers for torques of 400 Nm to 42,500 Nm
- **Consistent torque accuracy** in all international power supplies 100-253 V / 45-66 Hz
- Precise shut-off torque also at operation with voltage-controlled portable generators
- Models **alkitronic® EFW** angle tools for **comfortable operation** in areas difficult to access

Advantages

- **Low running costs** due to maintenance-free, low-wear, brushless synchronous motor with excellent efficiency
- **High motor speed:** Up to three times faster than conventional electrical torque multipliers
- **Permanently higher joint quality** compared to ratchet torque tools by continuous rotation of the square drive
- **Ergonomic and comfortable operation:** The 360 degree rotating handle prevents reaction forces from being transferred to the operator

alkitronic® specials

- **Master quality boltings according to the torque/angle procedure** with the models **EFcip / ECWip** in version „plus“
- Innovative motor protection with automatic switch-off to secure the bolting quality
- **Consistent and precise reproduction of the pre-selected torque** thanks to smart processor-controlled switch-off electronics
- **Robust and long lasting:** Motor housing made of extruded aluminium profile
- **Safe work in any weather** (moisture, rain). Ask us about protection class IP 54

Specifications

All **alkitronic®** electric torque multipliers with CE-certification. Repeat shut-off accuracy $\pm 3\%$ for the same bolting application.

Electrical data:

Universal AC input 100 V - 253 V, frequency 45 Hz - 66 Hz, power max. 2000 W. Protection category I, protection class IP 20 (standard), protection class IP 54 (optional).



Models EF/EFW:

Operating interface with LEDs. Using the index datasheet or torque table, the matching shut-off torque can be selected from 19 pre-set values.

Models EF/EFW „plus“ versions:

Operating interface with LC display and menu guidance. Bolting programmes: Torque/angle procedure, relief angle, returns in angle degrees, etc.

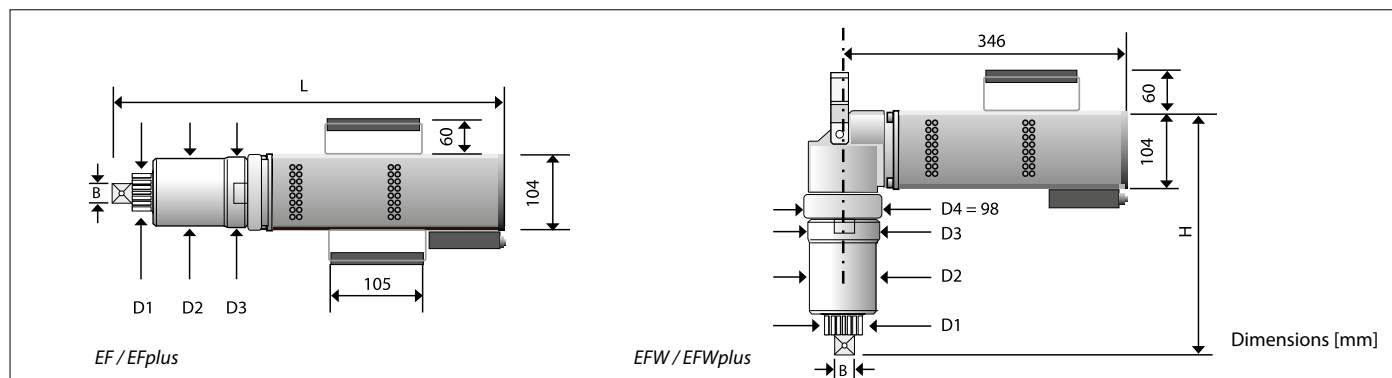


Applications

alkitronic® EFWip „all-weather“ design with protection class IP 54 (figure above). **alkitronic® EF**, bolting application at a diesel engine (figure on the right).



Technical Data



Models EF, EFplus

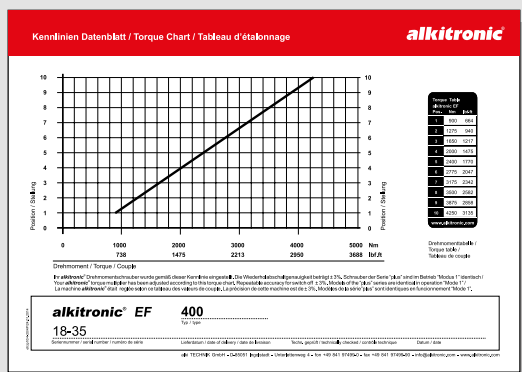
Type		EF 250	EF 300	EF 400	EF 600	EF 800	EF 1000	EF 2000	EF 4000
Torque range (approx.) *	Nm	430-2700	500-3100	900-4300	1150-6200	2000-7750	2050-9800	3500-20600	6200-42000
Square drive	B	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"	2 1/2"	2 1/2"
Diameter (approx.)	D ₁ mm	54	72	72	72	72	91	SW120	SW120
Diameter (approx.)	D ₂ mm	85	98	98	109	133	173	275	275
Diameter (approx.)	D ₃ mm	88	88	88	109	133	173	98	130
Length (approx.)	L mm	515	515	525	535	560	555	745/730 (ip)	745/730 (ip)
Weight without DMA (approx.)	kg	13	14	14.5	16	19.5	27	60	62
Idle speed	rpm	14	12	8	7	4	3	1	0.6

*) When loosening a bolted connection, up to 20% higher torque may be required (loosening torque). We will gladly advise you in detail.

Models EFW, EFWplus

Type		EFW 250	EFW 300	EFW 400	EFW 600	EFW 800	EFW 1000
Torque range (approx.) *	Nm	430-2700	500-3100	900-4300	1150-6200	1060-7950	2050-9800
Square drive	B	1"	1"	1 1/2"	1 1/2"	1 1/2"	1 1/2"
Diameter (approx.)	D ₁ mm	54	72	72	72	72	91
Diameter (approx.)	D ₂ mm	85	98	98	109	133	173
Diameter (approx.)	D ₃ mm	88	88	88	109	133	173
Height (approx.)	H mm	285	305	320	350	350	380
Weight without DMA (approx.)	kg	13.5	13.5	15.5	17.5	20	29
Idle speed	rpm	14	12	8	7	4	3

Index datasheet for versions alkitronic® EF / EFW



Index datasheet (example EF400) with torque table for determination of torque values. The shut-off torque has a position figure assigned. In the operating area, the desired position can be selected with the +/- buttons. An LED shows the currently selected value (figure on the left, models alkitronic® EF/EFW).

Remote control



Extremely flexible with alkitronic® remote controls as accessories:
alkitronic® FB plus stationary - machine control up to 300 m
alkitronic® FB - EF - cable length 5 m (standard design)

CL

Pneumatic
Torque Multiplier



allkitronic®

Applications

- Continuous rotation tightening or loosening of all heavy duty fastening connections
- Perfect for bolted applications in an environment with increased hazard of explosion
- **alkitronic® CLS** quick, compact torque multiplier for torques of 60 Nm to 3,500 Nm
- **alkitronic® CLD** comfortable torque multiplier with rotating handle for torques of 160 Nm to 9,800 Nm
- **alkitronic® CLS2** high-performance capable 2-gear machine for torques of 120 Nm to 48,000 Nm

Advantages

- Permanently higher joint quality as compared to impact and hydraulic wrenches by continuous rotation of the square drive
- **alkitronic® CLD** - the 360 degree rotating handle ensures comfortable operation and none of the reaction forces are transferred to the operator
- **alkitronic® CLS2** with fast gear for turning in and simple, quick switching to power gear (is used for applying the final torque)

alkitronic® specials

- Simple 1-finger operation for right/left rotation, optional facility to enable the reaction to be locked in one position
- Robust motor housing from cast aluminium with proven pneumatic drive
- Proven high-performance gears, produced in a chip-free high-precision process produce high loads with low wear
- **alkitronic® CLS2** with uniquely high torque - 48,000 Nm
- On demand with optional silencer levels to reduce the noise from the motor exhaust

Specifications



On request, you will receive our pneumatic multipliers with **ATEX-Certification: II 2 G D c IIB T6**

Prerequisites for best work and the indicated torques are an operating pressure of 2-7 bar at a volume flow of approx. 10-15 l/s. The torque accuracy depends on the stability of the supply system.



alkitronic® CLS2 2-gear pneumatic torque multiplier. Mechanically switchable from fast gear to power gear.

alkitronic® CLD torque multipliers in use (figures on the right). Screw connections at a bolt circle and a diesel unit for large construction machines



ready for use, everywhere

alkitronic® EA

Applications

- **alkitronic® EA:** Battery driven 2-speed torque multiplier for torques from 90 Nm to 4,000 Nm (65 to 2,950 lbf.ft).
- **Short fastening cycles:** Fast gear for run down and power gear for highest torques and precision.
- **Mobile and always ready for use:** Compact design for convenient working in limited spaces or without power supply.
- **Efficient operation:** Fast and easy gear-changing, great torque range - you can choose from 22 torque values.

Advantages

- **Low running costs:** The low-wear brushless synchronous motor is maintenance free.
- **Health-preserving:** Low weight, ergonomically designed, low noise emissions. No noise protection necessary.
- **High performance:** Two lithium-ion battery packs ensure up to 360 screw joints in a row. Each battery features a LED charge level indicator.
- **Exact shut-off torque** even at low battery levels.

alkitronic® Specials

- **Very low susceptibility to damage and failure:** Motor housing made of special polymer: Break-proof, impact-proof and resistant to corrosion.
- **Intelligent energy management and faster workflow:** Electronics protects battery cells from overcharging and depth discharge. Cooled battery packs during recharging. This reduces charging times and enhances maximum performance and durability.
- **Proven high-performance gears,** produced in a chip-free high-precision process.

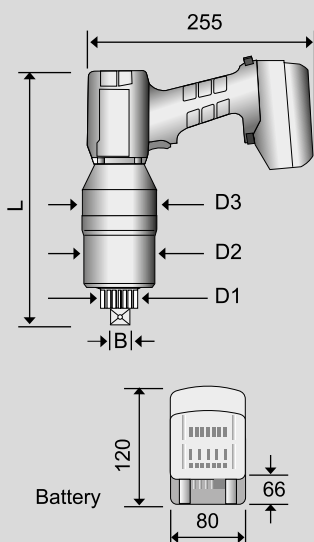


Technical Data: alkitronic® EA Models

Type		EA2 / 80	EA2 / 150	EA2 / 200	EA2 / 280	EA2 / 300	EA2 / 400
Torque range (approx.) *	Nm	115-860	150-1400	250-2200	300-2800	360-3200	500-4100
	lbf.ft	85-635	110-1030	185-1620	220-2065	265-2360	370-3025
Square drive	B	3/4"	3/4"	1"	1"	1"	1 1/2"
Diameter (approx.)	D ₁ mm	41	41	54	54	72	72
Diameter (approx.)	D ₂ mm	85	85	85	85	93	93
Diameter (approx.)	D ₃ mm	88	88	88	88	97	97
Length (approx.)	L mm	295	295	320	345	370	370
Weight without DMA (approx.) **	kg	5.5	5.5	7.0	7.4	7.4	9.1
Idle speed 1 st gear	rpm	7.0	4.0	2.0	1.7	1.5	1.0
Idle speed 2 nd gear	rpm	24.0	13.0	6.5	6.0	5.0	4.0

*) When loosening bolts, a higher torque (up to 20 %) may be necessary (release torque). We will be pleased to help you with your choice. **) Torque reaction arm

Measurements



Scope of Delivery



2 lithium-ion battery packs 18 V, 5.2 Ah, battery charger, tool case.



Repeat shut-off accuracy ± 3%
(same bolting connection).
All **alkitronic®** torque multipliers are CE-certified.

alkitronic®

CLD/L
Pneumatic
Torque Multiplier



allkitronic®

Applications

- Pneumatic torque multipliers for torques up to 1,900 Nm
- Continuous rotation tightening or loosening of all heavy duty fastening connections
- Perfect for bolted applications in an environment with increased hazard of explosion

Advantages

- Quick, compact and safe for fast joint assembly
- The 360 degree rotating handle ensures comfortable operation and none of the reaction forces are transferred to the operator
- Permanently higher joint quality as compared to impact and hydraulic wrenches by continually rotating bolting

alkitronic® specials

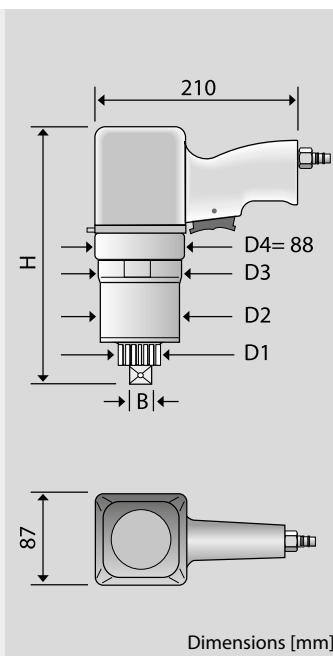
- Simple 1-finger operation for right/left rotation, optional facility to enable the reaction to be locked in one position
- Robust motor housing from cast aluminium with proven pneumatic drive
- Proven high-performance gears, produced in a chip-free high-precision process to produce high loads with low wear
- On demand with optional silencer levels to reduce the noise from the motor exhaust



Technical Data: Models CLD/L

Type		CLD/L 1	CLD/L 2	CLD/L 3	CLD/L 4	CLD/L 5	CLD/L 6	CLD/L 7
Torque range (approx.) *	Nm	70-230	130-400	160-500	300-900	360-1100	500-1450	650-1900
	lbf.ft	50-170	100-290	120-370	220-660	270-810	370-1070	480-1400
Square drive	B	1/2" / 3/4"	3/4"	3/4"	3/4"	3/4"	3/4" / 1"	1"
Diameter (approx.)	D ₁ mm	41	41	41	41	41	41 / 54	54
Diameter (approx.)	D ₂ mm	85	85	85	85	85	85	85
Diameter (approx.)	D ₃ mm	88	88	88	88	88	88	88
Height (approx.)	H mm	255	255	255	275	275	275 / 300	300
Weight without DMA (approx.)	kg	6	6	6	7	7	7	7
Idle speed	rpm	60	34	27	19	13	9	7

*) When loosening a bolted connection, up to 20% higher torque may be required (loosening torque). We will gladly advise you in detail.



Specifications

Prerequisites for best work and the indicated torques are an operating pressure of 2-7 bar at a volume flow of approx. 10-15 l/s. The torque accuracy depends on the stability of the supply system. The torque control of the pneumatic **alkitronic®** torque multiplier takes place via the air supply or pressure regulator of the Maintenance Unit.

Accessories

Maintenance Unit, complete with filter, regulator, oiler and 5m hose, incl. couplings.



alki TECHNIK GmbH reserves the right to change specifications without prior notice



alkitronic®

TORQUE POWER WORLDWIDE

alkitronic® products
Made in Germany by

alki TECHNIK GmbH

Development, Production and
Distribution of Bolting Systems

Unterlettenweg 4
D-85051 Ingolstadt

fon +49 841 97499-0
fax +49 841 97499-90

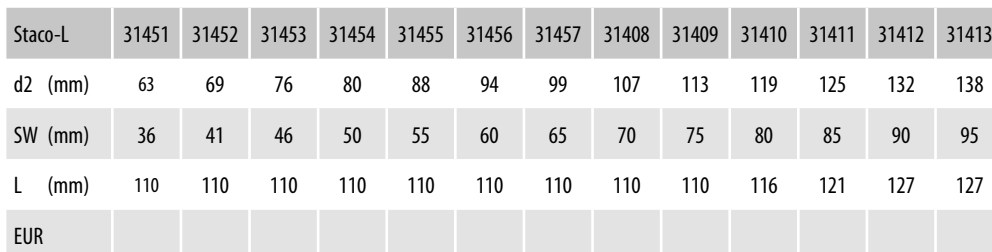
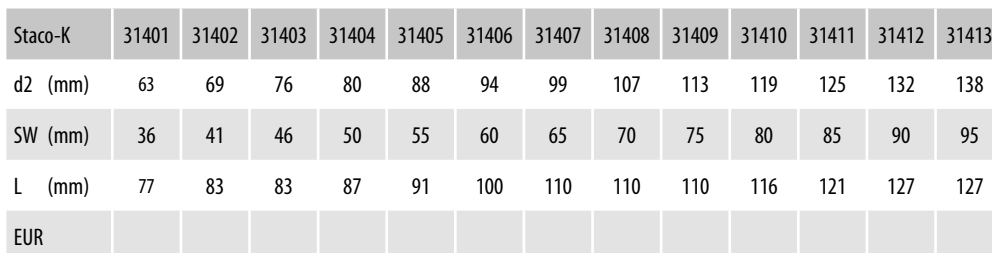
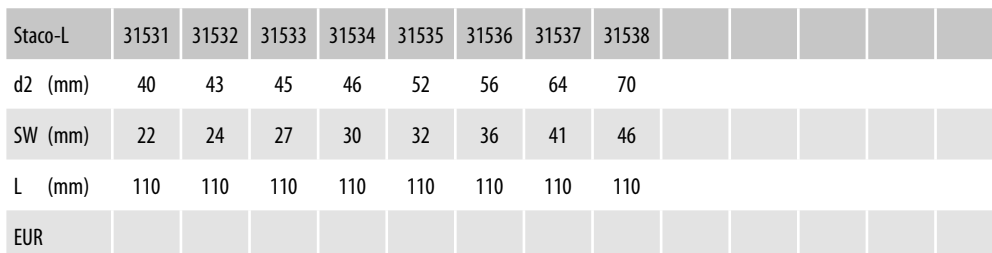
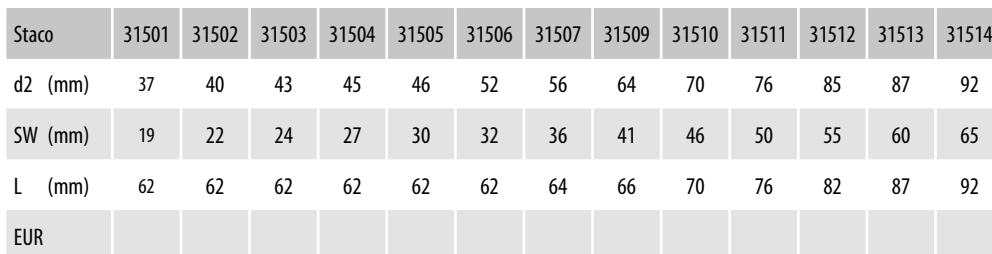
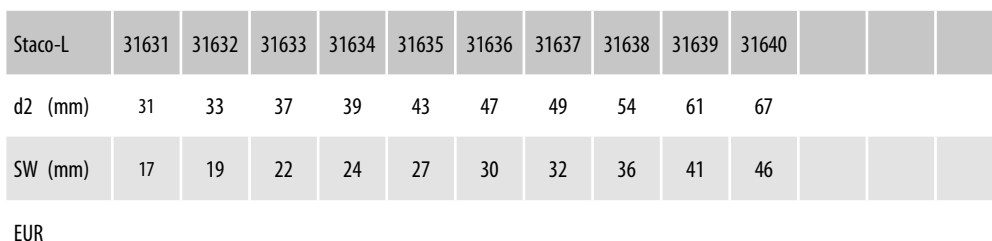
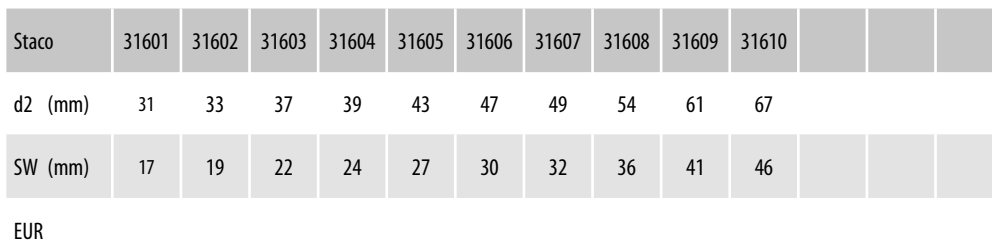
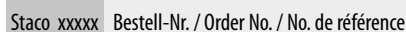
info@alkitronic.com
www.alkitronic.com

Standard Zubehör
Standard Accessories
Accessoires Standard

alkitronic®

alki
TECHNIK

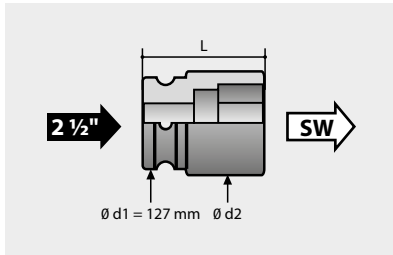


alkitronic® - STACO 6-Kant-Standardnuss / Hex. standard sockets / Douille de serrage (six pans) standard

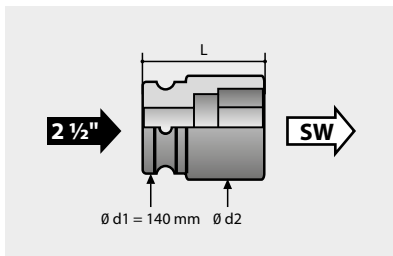
alkitronic® - STACO



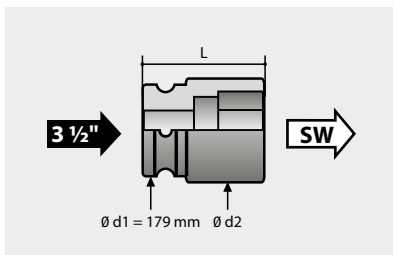
Staco xxxxx Bestell-Nr. / Order No. / No. de référence



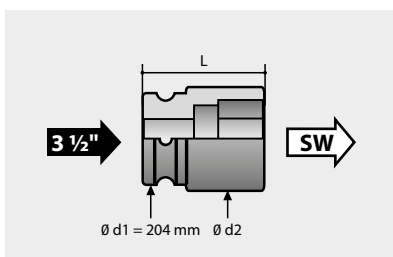
Staco	31921	31922	31923	31924	31925	31926	31927	31928	31929	31930	31931			
d2 (mm)	106	113	119	125	131	138	144	150	156	163	169			
SW (mm)	65	70	75	80	85	90	95	100	105	110	115			
L (mm)	138	140	143	150	155	160	160	165	165	170	175			
EUR														



Staco	31932	31933	31934	31935	31936	31937	31938	31939	31940	31941	31942			
d2 (mm)	175	181	188	194	200	206	213	219	225	231	238			
SW (mm)	120	125	130	135	140	145	150	155	160	165	170			
L (mm)	175	175	180	180	185	185	190	200	205	205	210			
EUR														



Staco	31961	31962	31963	31964	31965	31966	31967	31968	31969	31970	31971	31972	31973	31974
d2 (mm)	116	122	129	135	141	148	154	160	166	173	179	185	191	198
SW (mm)	65	70	75	80	85	90	95	100	105	110	115	120	125	130
L (mm)	158	160	163	170	175	180	180	185	185	190	195	195	195	200
EUR														



Staco	31975	31976	31977	31978	31979	31980	31981	31982						
d2 (mm)	204	210	216	223	229	235	241	248						
SW (mm)	135	140	145	150	155	160	165	170						
L (mm)	205	205	205	210	220	225	225	230						
EUR														

		Gummiring Ring Rondelle en caoutchouc			Stift Pin Goujon		
Abtriebsvierkant Square Drive Impulsion Quadrangulaire		Bestell-Nr. Order No. Numéro de réf.	EUR		Bestell-Nr. Order No. Numéro de réf.	EUR	
Staco 3/4"		31620			31621		
Staco-L 3/4"							
Staco 1"		31520			31521		
Staco-L 1"							
Staco-K 1 1/2"		31420			31421		
Staco-L 1 1/2"							
Staco 2 1/2"		31425			31426		
Staco 3 1/2"		31427			31428		

alkitronic® - Staco-Set			
Abtriebsvierkant Square Drive Impulsion Quadrangulaire		Bestell-Nr. Order No. Numéro de référence	EUR
Staco 3/4"		Staco 31600	
Staco-L 3/4"		Staco 31630	
Staco 1"		Staco 31500	
Staco-L 1"		Staco 31530	
Staco-K 1 1/2"		Staco 31400	
Staco-L 1 1/2"		Staco 31430	
Staco 2 1/2"		Staco 31920	
Staco 3 1/2"		Staco 31960	

Solutions that fit your needs

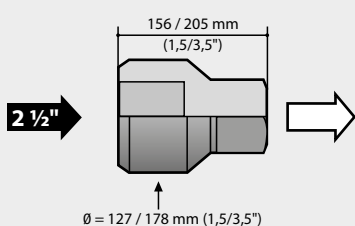
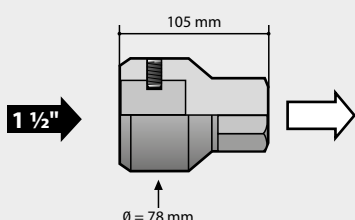
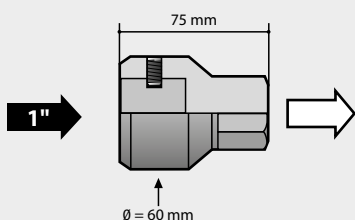
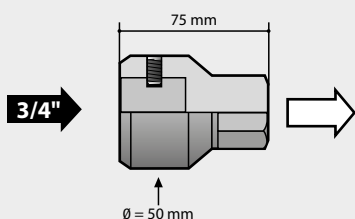
alkitronic® - STABI

Standardverbinder / Standard connector / Joint de tension standard



Stabi xxxxx

Bestell-Nr. / Order No. / No. de référence



Stabi	31305	31306	31307	31310	31311	31312	31313	31314	31315	31316
	1/2"	3/4"	1"							
				12 mm	14 mm	17 mm	19 mm	22 mm	24 mm	27 mm

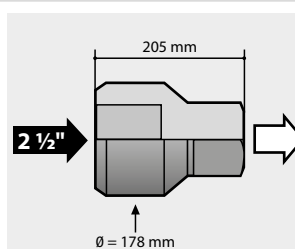
EUR

Stabi	31205	31206	31207	31210	31211	31212	31213	31214	31215	31216
	3/4"	1"	1 1/2"							
				17 mm	19 mm	22 mm	24 mm	27 mm	30 mm	32 mm

EUR

Stabi	31105	31106	31107	31110	31111	31112	31113	31114	31115	31116
	1"	1 1/2"	2 1/2"							
				19 mm	22 mm	24 mm	27 mm	30 mm	32 mm	36 mm

EUR



Stabi	31103	
	2 1/2"	

EUR

Stabi-Set, bestehend aus alkitronic® - Standardverbinder sowie Koffer mit Inneneinrichtung.

Stabi-set, consisting of alkitronic® standard connectors, complete with case and protective padding.

L'assortiment Stabi, composé déjà d'alkitronic® joint de tension standard est arrangé dans un coffre.



alkitronic® - Stabi-Set

für Abtriebsvierkant
for square drive
pour Impulsion Quadrangulaire



Bestell-Nr.
Order No.
Numéro de référence

EUR

3/4"

31320

1"

31220

1 1/2"

31120

alkitronic® - STABI-H / -S

Standardverbinder / Standard connector / Joint de tension standard



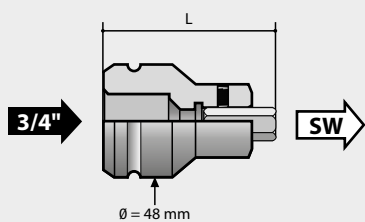
Stabi-H xxxxx

Bestell-Nr. / Order No. / No. de référence

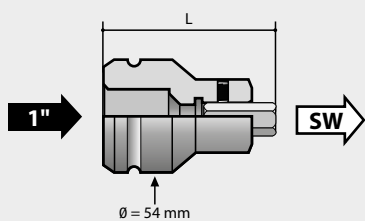


Stabi-S xxxxx

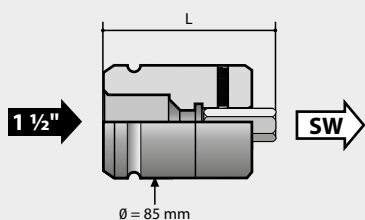
Bestell-Nr. / Order No. / No. de référence



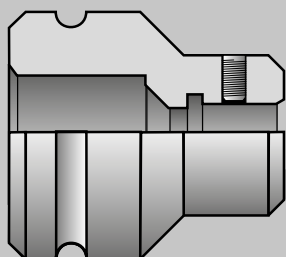
Stabi-H	31330	31331	31332	31333	31334	31335	31336			
L (mm)	76	76	76	76	76	76	76			
SW (mm)	12	14	17	19	22	24	27			
Stabi-S	31250	31251	31252	31253	31254	31255	31256			



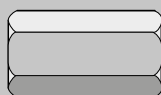
Stabi-H	31230	31231	31232	31233	31234	31235	31236			
L (mm)	85	85	85	87	87	87	89			
SW (mm)	17	19	22	24	27	30	32			
Stabi-S	31252	31253	31254	31255	31256	31257	31258			



Stabi-H	31130	31131	31132	31133	31134	31135	31136	31137	31138	31139	31140	31141	31142
L (mm)	105	105	105	105	105	105	108	120	122	122	122	122	122
SW (mm)	19	22	24	27	30	32	36	41	46	50	55	60	65
Stabi-S	31253	31254	31255	31256	31257	31258	31259	31260	31261	31262	31263	31264	31265

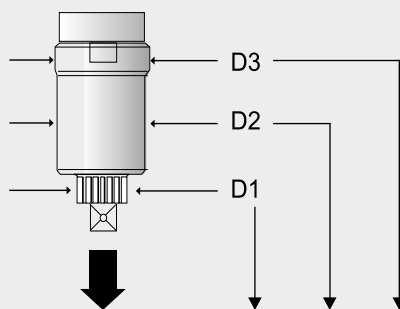


Stabi-H



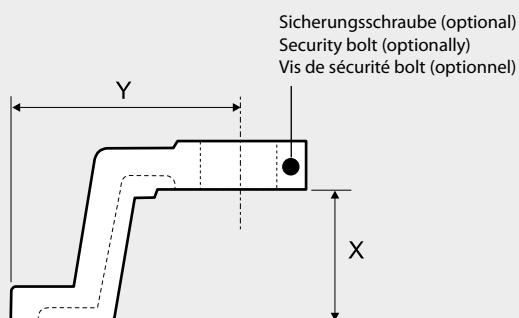
Stabi-S

	Gummiring Ring Rondelle en caoutchouc		Stift Pin Goujon	
Abtriebsvierkant Square drive Impulsion Quadrangulaire	Bestell-Nr. Order No. Numéro de réf.	EUR	Bestell-Nr. Order No. Numéro de réf.	EUR
Stabi-H ¾"	31620		31621	
Stabi-H 1"	31520		31521	
Stabi-H 1 ½"	31420		31421	



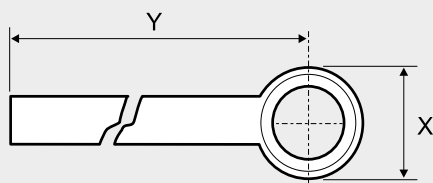
▼ Bestell-Nr. / Order No. / No. de référence

Abstützfuß / Reaction foot / Bras du support



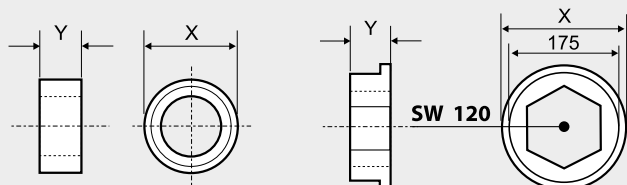
Abtriebsvierkant Square drive Impulsion quadrangulaire	D1	mm		mm		DMA	EUR
		D2	D3	X	Y		
1/2"	41	85	88	65	130	10251	
3/4"	41	85	88	65	130	10251	
3/4"	54	85	88	83	130	10252	
1"	54	85	88	83	130	10252	
1" (*)	54	85	88	83	150	10253	
1", 1 1/2" (**)	72	--	98	85	194	10254	
1", 1 1/2" (***)	72	--	98	85	194	10234	
1", 1 1/2"	72	--	98	114	220	10255	
1 1/2"	72	--	123	123	220	10256	
1 1/2"	72	--	148	123	220	10256	
1 1/2"	91	--	173	123	220	10257	

Gegenhalter / Toward support / Contre support



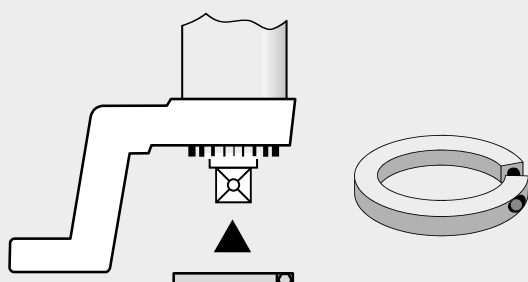
	D1	D2	D3	X	Y	DMA	EUR
3/4"	41	85	88	65	240	10261	
3/4"	54	85	88	80	240	10262	
1"	54	85	88	80	240	10262	
1 1/2"	72	--	98	105	240	10265	
1 1/2"	72	--	123	105	240	10266	
1 1/2"	72	--	148	105	240	10266	
1 1/2"	91	--	173	105	240	10267	

Abstützring / Reaction ring / Anneau du support



	D1	D2	D3	X	Y	DMA	EUR
3/4"	41	85	88	65	28	10246	
3/4"	54	85	88	80	28	10247	
1"	54	85	88	80	28	10247	
1 1/2"	72	--	98	110	33	10248	
1 1/2"	72	--	123	110	47	10249	
1 1/2"	72	--	148	110	47	10249	
1 1/2"	91	--	173	130	52	10250	
2 1/2"	SW 120			180	57	10416	

Sicherungsring / Security ring / Anneau de sécurité



	D1	D2	D3	DMAR	EUR
	41	--	--	10271	
	54	--	--	10272	
	72	--	--	10275	
	91	--	--	10277	

(* Für Drehmomente über 2000 Nm empfehlen wir: DMA 10253 / For torques higher than 2000 Nm we recommend you to use: DMA 10253 / Pour couple plus haut que 2000 Nm nous vous recommandons d'utiliser: DMA 10253.

(** DMA 10254 (Aluminium-Legierung) für Drehmomente < 3000 Nm / DMA 10254 (Aluminium alloy) for torques < 3000 Nm / DMA 10254 (Alliage d'aluminium) pour couple < 3000 Nm.

(*** DMA 10234 - Material: Stahl / Material: Steel / Matériel: Acier

alkitronic® - Drehmomentschlüssel



Drehmomentschlüssel

mit automatisch auslösendem akustischem Signal, eingebauter Knarre mit kleinem Nachholwinkel und einfacher sicherer Einstellung des Drehmomentwertes. Bei Verwendung als Antriebselement für unsere **alkitronic-M** - Handkraftschrauber, werden Drehmomente bis 50.000 Nm, sicher und schnell beherrscht.

Torque wrench

gives an audible click when preset torque load is reached. Equipped with a ratchet. Easy and accurate torque setting. Suitable for use with our **alkitronic** - multiplier driver torque output up to 50,000 Nm robust and quick in operation.

La clé dynamométrique

prevue avec un signal automatique et cliquet assure un réglage facile du couple. Avec la serreuse manuelle **alkitronic**, elle atteint facilement un couple de serrage jusqu'à 50,000 Nm.

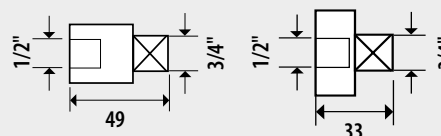
Abtriebsvierkant Square Drive Impulsion quadrangulaire	Messbereich Span/Etendue de Mesure	Teilstrichskala Scale Échelle	Länge Length Longueur	Gewicht Weight Poids	Bestell-Nr. Order No. No. de référence	EUR
	Nm	Nm	mm	kg		
3/4"	40-280		680	2,3	31352	
3/4"	60-420		947	3,5	31353	
3/4"	100-700		1315	6,7	31354	

Knarre / Ratchet / Cliquet

rechts bzw. links umschaltbar / right and left reversible / droit et gauche réversible



Verbinder / Connector / Attache



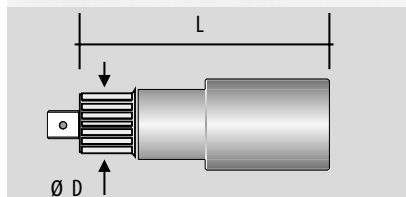
Abtriebsvierkant Square Drive Impulsion quadrangulaire	Länge Length Longueur	Gewicht Weight Poids	Bestell-Nr. Order No. No. de référence	EUR	Bestell-Nr. Order No. No. de référence	31357	31357-K
	mm	kg			EUR		
3/4"	680	2,3	31359				

alkitronic® - Auszug Sonderzubehör / Some special accessories / Accessoires speciales



ATV - Abtriebsverlängerung / Square drive extension / Rallonge d'entraînement

Abtriebsverlängerung Square drive extension Rallonge d'entraînement	Ø D	Länge Length Longueur	Bestell-Nr. Order No. No. de référence	EUR
ATV	mm	L (mm)		
3/4"	41	200	10285	
1"	54	215	10270	



alkitronic® - Aufhängering mit Öse u. Griff / Hanging device / Anneau de suspension
Getriebegehäuse / Gear box / Carter du reducteur Ø (mm) : 85, 88, 98, 106, 109, 133
Bestell-Nr. / Order No. / No. de référence **10120**

Für weitere Informationen, fordern Sie unsere Unterlagen an / For further informations contact us / Pour plus des informations détaillées nous vous prions de nous contacter

**FLANGE
BOY**



allkitronic[®]

saves time and money

FLANGE BOY

Application and Advantages

- Easy and safe mechanical separation of piping flanges
- All parts manufactured of high quality material
- *FLANGE BOY* has proven international tests

Operation instructions

Insert the *FLANGE BOY* in one of the bolt holes of a flange. Slip the bolt support plate which is held by a chain between the flange facings underneath the setscrew. Once the *FLANGE BOY* is jammed tight, continue turning by means of a wrench until a position is reached where a gasket can be replaced or a spade set. Then, slacken back the setscrew to the point where the support plate can be removed and tap the setscrew with a hammer in order to free the *FLANGE BOY* from the bolt hole.

It is recommendable to use two *FLANGE BOYS* in cases where the transfer of very large forces is required. Insert the second *FLANGE BOY* in the corresponding hole of the companion flange. The forces applied will act on the same support plate.

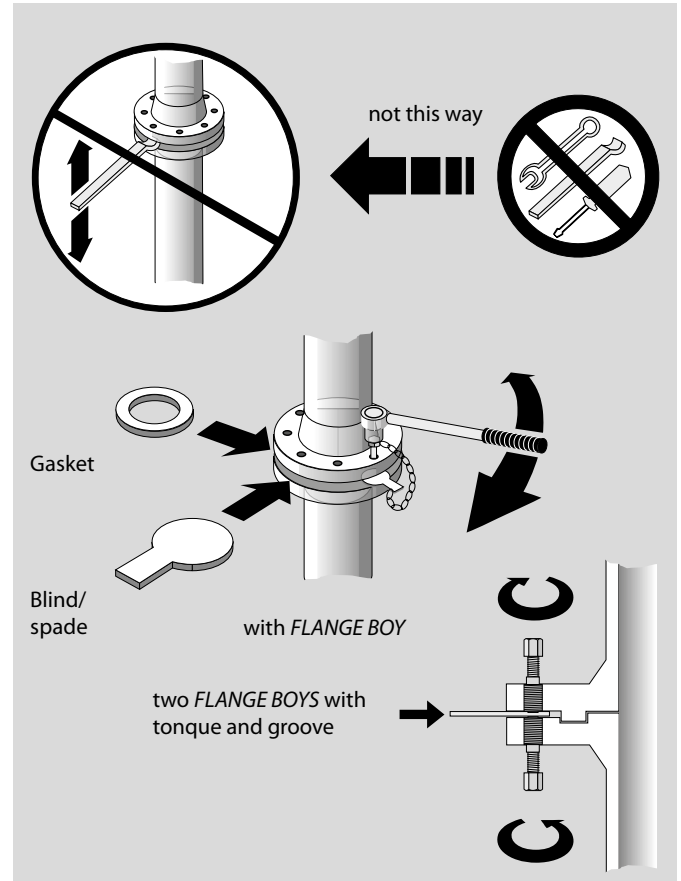
You will, thus, be able to apply heavy loads without risking damage to the support plate. Due to the flange proportions it is not possible to increase the thickness of the support plate.

Plate by transference of large forces not load unilaterally!

Grease threads well before using!

Warning:

To avoid serious injuries never put the fingers between the separated flanges!

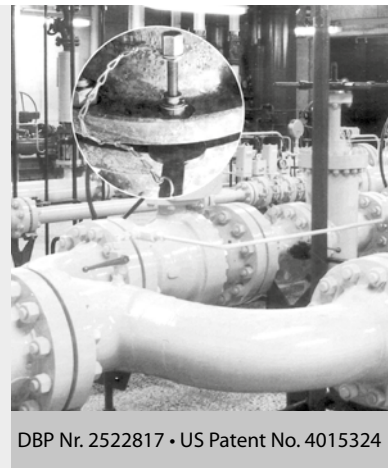
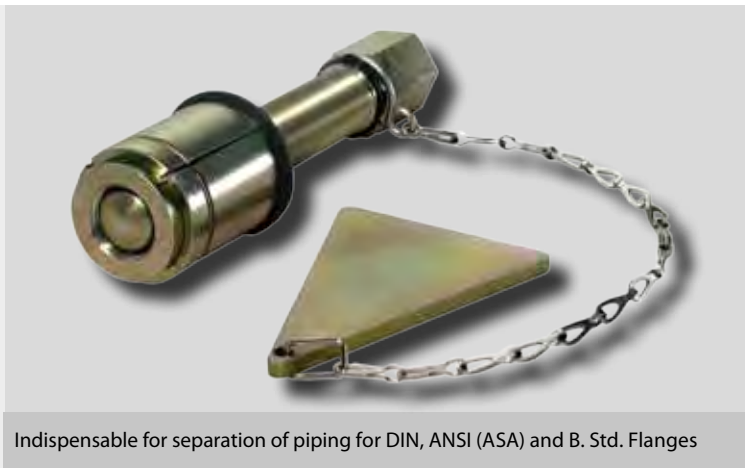


DIN Flange Dimensions (further sizes - upon request)

Type	Bolt hole (Ø mm)	PN 10 DN	PN 16 DN	PN 25 DN	PN 40 DN	PN 64 DN	PN 100 DN	PN 160 DN
D 18	18	32-125	32-125	32-80	32-80	20-25	20-25	20-25
D 22	22	150-350	150-200	100	100	32-80	32-40	32-40
D 26	26	400-500	250-300	125-200	125-150	100	50-80	50-80
D 30	30		400	250-350	200	125	100	100
D 33	33			350	250-300	150	150-175	125-150
D 36	36			400	350	200-300	200	200
D 39	39				400	350	250	
D 42	42					400	300	250-300

ANSI (ASA) Flange and British Standard Flange Dimensions (further sizes - upon request)

Type	Bolt hole (Ø mm)	150 lbs DN/Inch	300 lbs DN/Inch	600 lbs DN/Inch	900 lbs DN/Inch	1500 lbs DN/Inch
A 3/4	19	2, 2½, 3, 4	¾, 1, 2	¾, 1, 1¼, 2		
A 7/8	22	5, 6, 8	1, 1½, 2½, 3, 4, 6	1½, 2½, 3	½, ¾	½, ¾
A 1	25	10, 12	8	4	1, 2, 3	1, 2
A 1 1/8	28	14, 16	10	6	1½, 2½	1½, 2½
A 1 1/4	32	18, 20	12, 14	8	4, 6	3
A 1 3/8	35	24	16, 18, 20	10, 12		4
A 1 1/2	38		14	8, 10, 12	6	
A 1 5/8	41		24	16	14	



alkitronic®

DBP Nr. 2522817 • US Patent No. 4015324

Indispensable for separation of piping for DIN, ANSI (ASA) and B. Std. Flanges

EAB/CLB

Thread Cleaner



alkitronic®

fast, light-weight, efficient

Applications

- Soiled or corroded threads prevent to achieve accurate torque values.
- **alkitronic**® thread cleaner thoroughly cleans bolts, screws and nuts.
- The Thread Cleaner is available battery-powered or with air-powered drive: **alkitronic**® EAB and **alkitronic**® CLB.
- Universal application fields for inspection works: machine construction in general, automotive industry, construction machinery industry, chemical industry, mining and metallurgical industry, maintenance and transport services, power stations, shipyards, construction of heavy industry, steel skeleton construction, transport of heavy goods, transportation, public utilities, supplies.

Advantages

- Avoids high-cost, messy and labour-intensive conventional working methods.
- Interchangeable brass or steel brushes facilitate the cleaning of bolts of various sizes.
- Secure, fast and constant careful cleaning of bolt surfaces.
- Light-weight and compact design with integrated dirt trap.
- Efficient, fatigue-free operation.

alkitronic® specials

alkitronic® EAB

- health-friendly: low weight and ergonomic design, no noise protection necessary.
- high-performance: two Lithium-ion battery packs ensure a large number of cleaning cycles.
- very low susceptibility to damage and failure: robust motor housing made of special polymer, break-proof, impact-proof and resistant to corrosion.
- handy and always ready for use: for convenient working also in limited spaces or lack of power supply.

alkitronic® CLB

- unbreakable: motor housing of cast aluminium with proven pneumatic drive.
- simple 1-finger operation for cw and ccw rotation.

alkitronic® EAB battery pack

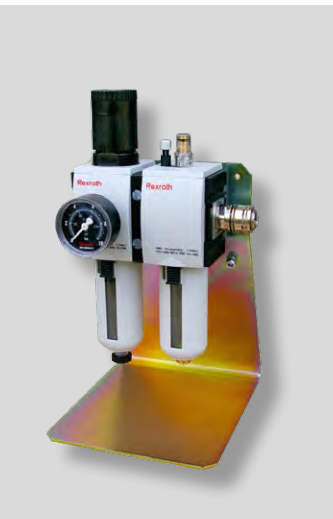
The integrated electronics protects each battery cell from overload and discharge. LED charge status display directly on the battery.



Included in the scope of delivery:
2 lithium-ion battery packs 18 V, 5.2 Ah incl. battery charger.

alkitronic® CLB

Speed resp. torque control is adjustable via air supply and pressure regulator of the maintenance unit.



Accessories:
Maintenance unit consisting of: filter, regulator, lubricator and 5 m hose incl. nipples and couplings.



Product information alkitronic® CLB

For fast and reliable operation we recommend an air pressure of 2-7 bar and air volume of 10-15 l/sec.



alkitronic® EAB / CLB Thread Cleaner



Accessories / Technical Data

Brushes and guide plates

Brushes for external thread in steel (6 brushes). Brushes in brass optionally available.

Bolts ø	Type	Ref. No.
16-18 mm	Brush-ST-1.4401	18006
	Guide Plate	18026
20-24 mm	Brush-ST-1.4401	18005
	Guide Plate	18025
27-30 mm	Brush-ST-1.4401	18004
	Guide Plate	18024
33-36 mm	Brush-ST-1.4401	18003
	Guide Plate	18023
39-42 mm	Brush-ST-1.4401	18002
	Guide Plate	18022
45-48 mm	Brush-ST-1.4401	18001
	Guide Plate	18021

Brush Set

Brush set for external threads, consisting of 6x6 brushes incl. 4 guide plates.

Bolts ø	Type	Ref. No.
16-48 mm	Brush Set-ST-1.4401	18010

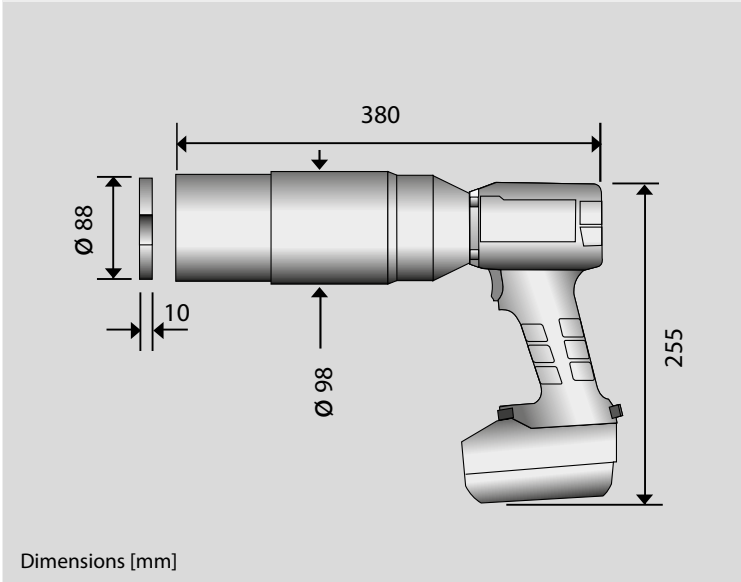
Brushes for cleaning of internal threads

Type	Ref. No.
Conical brush St-1.4401	18041
Conical brush plate	18042

alkitronic® Thread Cleaner

Type	Drive	Ref. No.	Operating Range
EAB	Battery motor	18050	135 mm
CLB	Air motor	18061	135 mm

alkitronic® EAB



alkitronic® CLB

