

R/SG

for Plate Heat Exchanger



designed for your needs

Applications

- These tools are ideally specialized for bolting connections on plate heat exchangers, e.g. in the food and beverage sector, the paper industry, and the chemical industry. They save much time when tightening and loosening plate packs where **perfect retention and absolute tightness are essential**.
- Reliable, low-wear operation due to **continuous rotation** when bolting with spindles or long threaded bolts.
- Depending on the application, electrical or pneumatic driven torque multipliers: torque up to 4,840 Nm / 3,570 ft.lbs.

Advantages

- Load-free operation, with short assembly time.
- **alkitronic® PC-R, PC-SG** and battery driven torque multiplier EAF with fast gear for turning in and simple, quick switching to power gear.
- SG output can be separated; the respective drive can be used individually as a complete torque multiplier.

alkitronic® specials

- Targeted types for convenient working in every tightening situation: among other options between radial gearing (R) with high-performance worm drive; tangential gearing (SG) with highly efficient spur gear.
- **Long lifetime** due to extremely robust motor housing made of cast aluminum or break-proof polymer.
- Supplied in **sturdy plastic cases**.
- **Successfully used worldwide** by manufacturers, service companies and end customers **for over 35 years**.

Specifications

Pneumatic driven models:

Prerequisites for best work with the indicated torques are an operating pressure of 2-7 bar at a volume flow of approx. 10-15 l/s. On request, our pneumatic torque multipliers are available with **ATEX certification**: II 2 G D c IIB T6.

Electric driven models:

Universal AC input 100 V – 253 V, frequency 45 Hz – 66 Hz, power max. 1.4 kW, protection category I. EC models with protection class IP54. EAF models with two lithium-ion battery packs 18 V, 5.2 Ah, and battery charger.





Statement of deposition
Deposition number: EPS 20 ATEX 20THH0297
Revision: 1.0

Confirmation of receipt according to article 13 (1) b) of Directive 2014/54/EU of the European Parliament and of the Council for equipment and protective systems intended for use in potentially explosive atmospheres for:

Company: alu TECHNIK GmbH
Address: Untereifenweg 4
85051 Ingolstadt, Germany

Product(s):
Alkitronic-Complast air screwdriver
Type series: CLD, CLD, CLS, CLS 2, RCL and CLV

Documents:
1 DVD

Validity date of the deposition: 2030-05-19

The receipt and the storage of the documentation for the products given above are hereby confirmed.
(The statement refers exclusively to the documentation submitted to Bureau Veritas for deposition.
Approved with the deposition number given above by Bureau Veritas.)

The deposition is static.
A review for completeness has not been carried out.

Date: 2020/05/20
Signature: Thoralf Kasper

Bureau Veritas Consumer Products Services Germany GmbH is a Notified Body in accordance with Directive 2014/54/EU of the European Parliament and of the Council for equipment and protective systems intended for use in potentially explosive atmospheres with the designation number 2004.

Learn more about our bolting solutions on plate heat exchangers in this video.



Recommendation: Use of two alkitronic® torque multipliers to increase productivity, reduce the load on the torque multipliers when working with large plate packages, and extend the service life of the seals.

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85051 Ingolstadt, Germany

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Alkitronic-Complast air screwdriver
Type series: CLD4, CLD, CLS, CLS 2, RCL und CLV

Documents:
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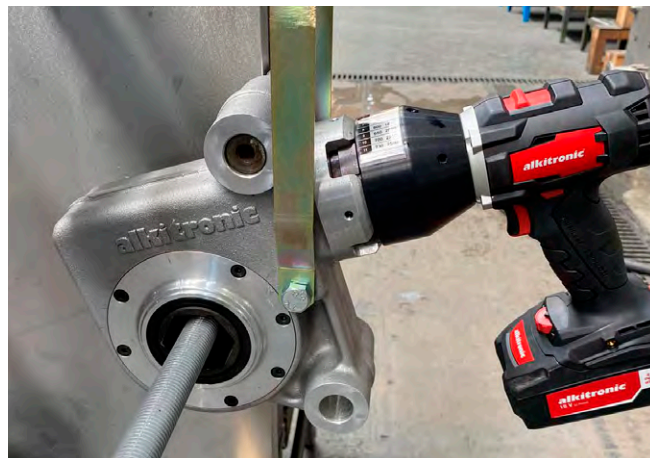
Learn more about our bolting solutions on plate heat exchangers in this video.



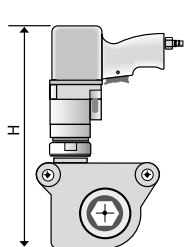
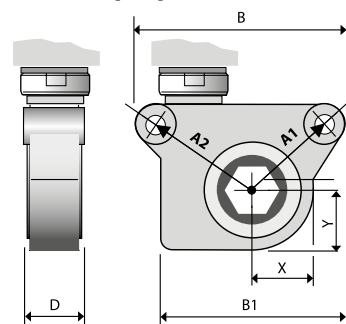
Recommendation: Use of two alkitronic® torque multipliers to increase productivity, reduce the load on the torque multipliers when working with large plate packages, and extend the service life of the seals.

Technical Data

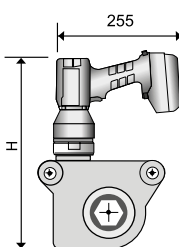
alkitronic® Radial Gearing (R) SW 80



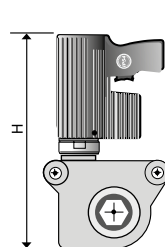
Dimensions [mm]



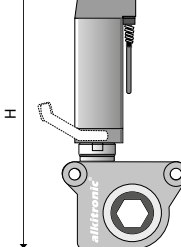
PC-R



EAF-R

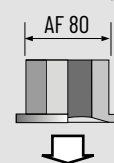


EC-R



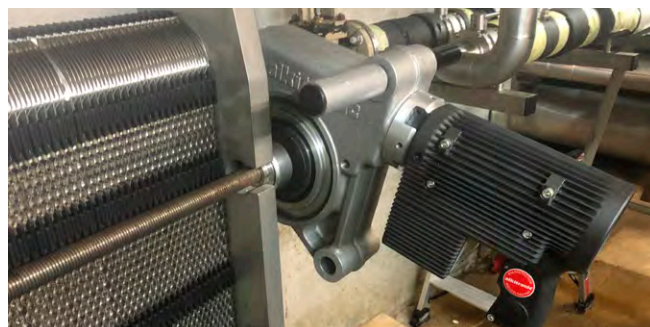
EF-R

Standard Adaptor



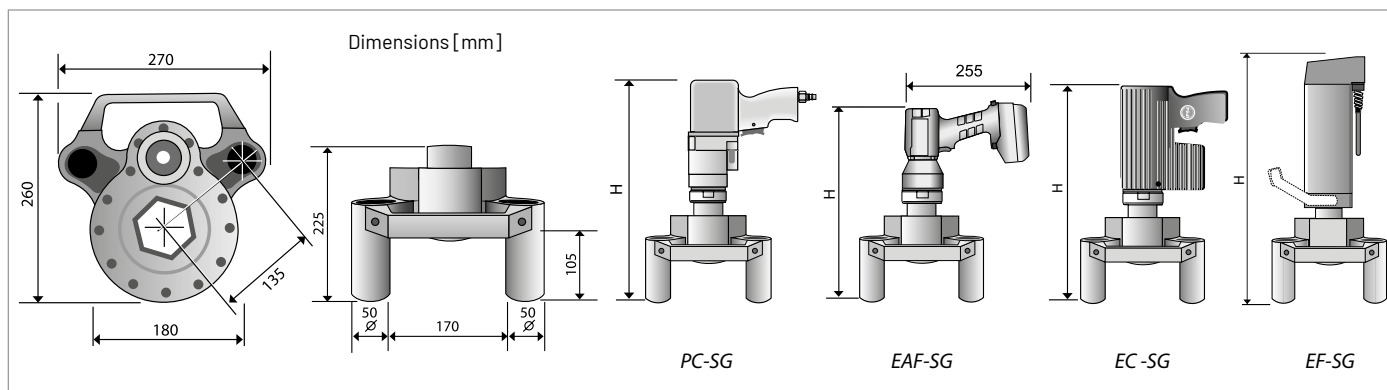
STA 80 / AF
41, 46, 50 mm
55, 60, 65 mm
70, 75 mm
other sizes on request

Radial Gearing Models			Pneumatic drive	Electric drive		
			PC-R (2-Gear)	EAF-R (2-Gear)	EC-R	EF-R
Type			PC-R 80	EAF-R 80	EC-R 80	EF-R 80
Torque range 2nd gear (approx.)	Nm / ft.lbs		670-1975 / 495-1455	250-730 / 185-540	-	-
Torque range 1st gear (approx.)	Nm / ft.lbs		1645-4840 / 1210-3570	750-2500 / 555-1845	480-3840 / 355-2830	560-3780 / 410-2790
Width across flat (AF)	mm		80	80	80	80
Height (approx.)	H	mm	450	450	475	615
Width (approx.)	B/B1	mm	325/240	325/240	325/240	325/240
Bolt distance (approx.)	A1/A2	mm	156/194	156/194	156/194	156/194
Dimensions (approx.)	X/Y	mm	98/98	98/98	98/98	98/98
Dimension (approx.)	D	mm	94	94	94	94
Weight (approx.)	kg		21	20.5	21	24
Idle speed 1st gear (approx.)	rpm		4	2	9.5	8
Idle speed 2nd gear (approx.)	rpm		12	7	-	-



Technical Data

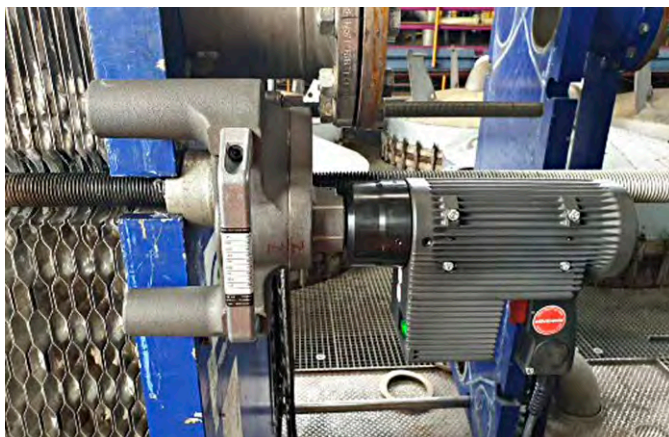
alkitronic® Tangential Gearing (SG) SW 80



Tangential Gearing Models		Pneumatic drive	Electric drive		
		PC-SG (2-Gear)	EAF-SG (2-Gear)	EC-SG	EF-SG
Type		PC-SG 80	EAF-SG 80	EC-SG 80	EF-SG 80
Torque range 2nd gear (approx.)	Nm / ft.lbs	450-1330 / 330-980	600-1500 / 440-1100	-	-
Torque range 1st gear (approx.)	Nm / ft.lbs	1440-4235 / 1060-3125	1000-3700 / 740-2730	370-3480 / 275-2565	560-3780 / 410-2790
Width across flat (AF)	mm	80	80	80	80
Height (approx.)	H mm	530	470	500	635
Weight (approx.)	kg	17	16,2	19	21.5
Idle speed 1st gear (approx.)	rpm	3.5	1,7	10	8
Idle speed 2nd gear (approx.)	rpm	10	6,0	-	-

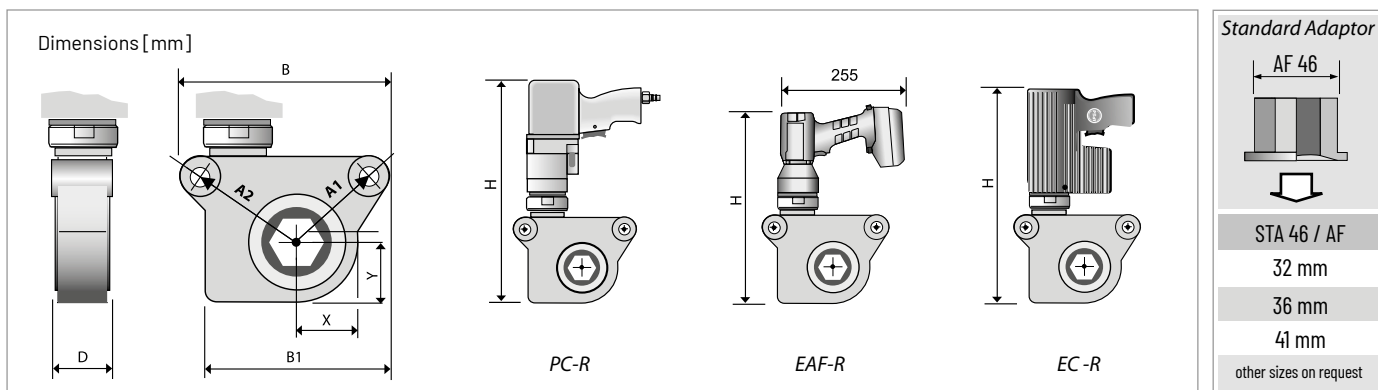
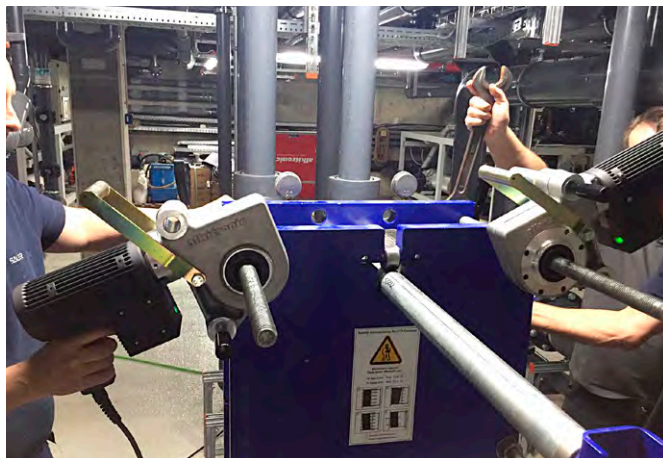


The torque multipliers can also be used with the SG drive disassembled.

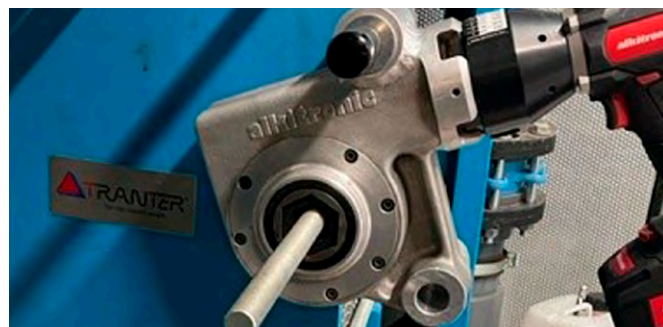


Technical Data

alkitronic® Radial Gearing (R) SW 46



Radial Gearing Models		Pneumatic drive		Electric drive	
		PC-R (2-Gear)		EAF-R (2-Gear)	EC-R
Type		PC-R 46		EAF-R 46	EC-R 46
Torque range 2nd gear (approx.)	Nm / ft.lbs	250-780 / 185-575		250-730 / 185-540	-
Torque range 1st gear (approx.)	Nm / ft.lbs	800-2500 / 590-1845		750-2500 / 555-1845	250-2530 / 185-1865
Width across flat (AF)	mm	46		46	46
Height (approx.)	H mm	435		400	425
Width (approx.)	B/B1 mm	252/215		252/215	252/215
Bolt distance (approx.)	A1/A2 mm	112/145		112/145	112/145
Dimensions (approx.)	X/Y mm	75/75		75/75	75/75
Dimension (approx.)	D mm	94		94	94
Weight (approx.)	kg	13.5		13.5	14.5
Idle speed 1st gear (approx.)	rpm	4.5		2.5	9.5
Idle speed 2nd gear (approx.)	rpm	14		8	-



YOUR PLUS FOR MORE PERFORMANCE

Increased quality

Premium production
Highest quality materials
Long product life cycles
Since 1984 experience in bolting technology
Made in Germany – international patents

Increased precision

Precise, customer-specific torques
High repeatability
Reliability in permanent operation
Documentation of tightening results
Automatic shut-off

Increased productivity

Quicker tightening without reworking
No environmentally caused failures (IP54, ATEX)
High work safety
Easy to use: clear, simple instructions
Low maintenance and cost efficient

Better service

Technical advice on site
Training offers
Manufacturer's calibration and certification
Lifecycle support
Spare part and repair service

alki TECHNIK GmbH
Development, Production and Distribution of Bolting Systems

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info@alkitronic.com – www.alkitronic.com

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THE HYDRAULICS



alkitronic XM-SERIES

THE MANUALS