



# 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 4,800 Nm / 3,540 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.





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







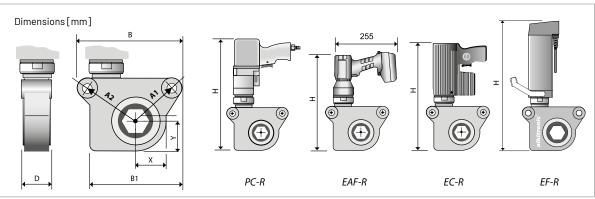
**Recommendation:** Use of two alkitronic® torque multipliers to increase productivity, reduce the load on the torque multipliers when working with large plate packages, and extend the service life of the seals.

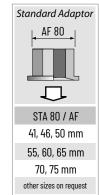
## **Technical Data**

### alkitronic® Radial Gearing (R) SW 80









Radial Gearing Models			Pneumatic drive	Electric drive		
			<b>PC-R</b> (2-Gear)	EAF-R (2-Gear)	EC-R	EF-R
Туре			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 /		Nm / ft.lbs	1645-4840 / 1210-3570	720-2500 / 530-1845	480-3840 / 355-2830	560-3780 / 410-2790
Width across flat (AF)		mm	80	80	80	80
Height (approx.)	Н	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		rpm	4	2	9.5	8
Idle speed 2nd gear (approx.) rpr		rpm	12	7	-	-





# alkitronic SG torque multiplier - tangential gearing - SW 80

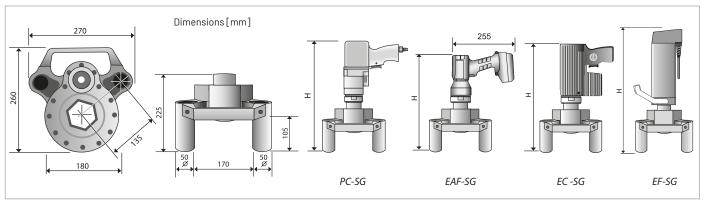
### **Technical Data**

### alkitronic® Tangential Gearing (SG) SW 80









Tangential Gearing Models	S	Pneumatic drive	Electric drive		
		<b>PC-SG</b> (2-Gear)	<b>EAF-SG</b> (2-Gear)	EC-SG	EF-SG
Туре		PC-SG 80	EAF-SG 80	EC-SG 80	EF-SG 80
Torque range 2nd gear (approx.) Nm / ft.lbs		440-1330 / 325-980	600-1500 / 440-1100	-	-
Torque range 1st gear (approx.)	Nm / ft.lbs	1400-3780 / 1030-2790	1000-3700 / 740-2730	560-3780 / 410-2790	560-3780 / 410-2790
Width across flat (AF)	mm	80	80	80	80
Height (approx.)	mm	530	470	500	635
Weight (approx.)	кд	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.

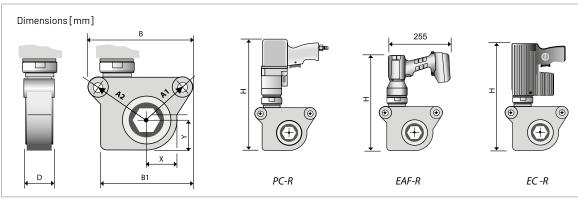


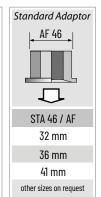
### **Technical Data**

### alkitronic® Radial Gearing (R) SW 46









Radial Gearing Models			Pneumatic drive	Electric drive		
			<b>PC-R</b> (2-Gear)	EAF-R (2-Gear)	EC-R	
Туре			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		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.)	Н	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		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 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

#### **Increased precision**

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

### **Better service**

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

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#### **EXTRACT FROM OUR PRODUCT RANGE**



**alkitronic** XE-SERIES
THE ELECTRICS



**alkitronic** XP-SERIES

THE PNEUMATICS





**alkitronic** XH-SERIES

THE HYDRAULICS



**alkitronic** XM-SERIES
THE MANUALS