

Missing Link XCE Link

Manual Torque Multiplier



where sockets will not fit ...

alkitronic® Norwolf specialty products

The **alkitronic® Norwolf Missing Link™** – the most revolutionary manual torque multiplier for applications where standard tools don't fit. The **alkitronic® Norwolf XCE Link™** is essentially a Missing Link™ with the ability to turn continuously.

Missing Link

The **Missing Link™** torque multiplier fits into tightly confined areas where sockets will not fit.

The **Missing Link™** has become standard in the wind industry for generator feet and yaw pucks. Available in 4:1 or 6:1 ratios. The newly re-designed 6:1 **Missing Link™** fits in the narrowest of confines while maintaining a high power to weight ratio.

Advantages

- Accurate – operates using levers, not gears.
- No overload pins to break – creates safer working environment.
- Uses ratchet or non-ratchet wrenches.
- Optional reaction arm permits operator to react on the same plane.
- Input force is same direction as reaction force for maximum operator convenience.

XCE Link

The **alkitronic® Norwolf XCE Link™** is the ultimate answer for gaining access where standard pneumatic multipliers are too tall or bulky to fit application. Available in 3:1 or 4:1 ratios.

There are two available styles. The standard style has a sliding pin with which to react with any standard torque multiplier. The hub style has a specific splined hub to match the input tool of choice.

Advantages

- Totally enclosed aluminum housing.
- Available in two styles: pin or hub reaction.
- Continuous rotation for use with any **alkitronic®** pneumatic or electric multiplier.
- Available in special configurations.
- Gearless internal design offers long service life.



Application Example: The **Missing Link™** when fitting a coupling in plant construction.

The **Missing Link™** fits more applications than any other wrench.



XCE Link™ with hub style to match the input of all **alkitronic®** torque tools. Continuous rotation for use with any electric or pneumatic driven torque multiplier.

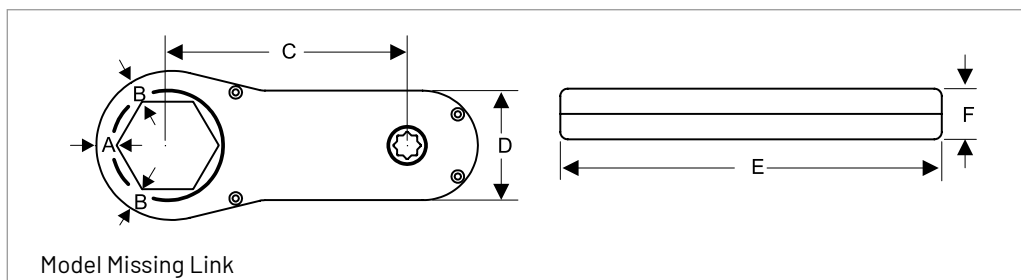


Missing Link™ – the manual torque multipliers are available with spanner sizes from 22 mm to max. 80 mm and ratios of 4:1, 6:1.

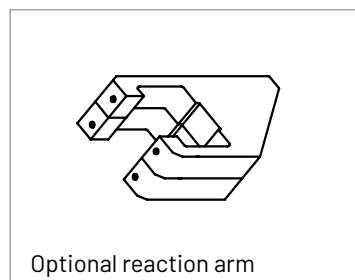
The **Missing Link™**, the most suitable multiplier for every bolting connection.

alkitronic® Missing Link and XCE Link

Technical Data



Model Missing Link



Optional reaction arm

Models Missing Link - 1/2", 4:1 Ratio - max. 340 Nm input / 1380 Nm output (250 / 1,000 ft-lbs)

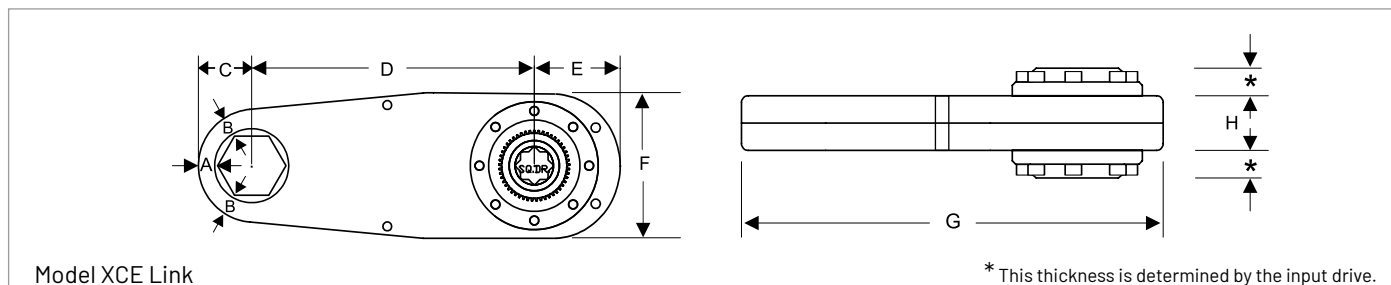
SW	22	24	27	30	32	36	41	46	50	55	60	C	151 mm
A mm	13,5	12	11.1	12	11.1	11.1	11.1	11.1	11.1	11.1	11.1	D	70 mm
B mm	15.1	13.5	12.7	13,5	12.7	12.7	12.7	12.7	12.7	12.7	12.7	F	32 mm
E mm	222	222	222	226	226	228	231	234	236	239	242		

Models Missing Link - 3/4", 4:1 Ratio - max. 815 Nm input / 3260 Nm output (600 / 2,400 ft-lbs)

SW	22	24	27	30	32	36	41	46	50	55	60	65	70	75	80	C	212 mm
A mm	21.3	20.3	18.8	17.3	16.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	14.3	D	95 mm
B mm	23.6	22.6	21.1	19.6	18.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	16.6	F	45 mm
E mm	309	309	309	309	309	309	312	315	317	320	323	325	328	331	334		

Models Missing Link - 3/4", 6:1 Ratio - max. 815 Nm input / 4890 Nm output (600 / 3,600 ft-lbs)

SW	32	36	41	46	50	55	60	65	70	C	355 mm
A mm	23.3	21.3	18.8	14.3	16.3	14.3	14.3	14.3	14.3	D	102 mm
B mm	25.6	23.6	21.1	18.6	16.6	16.6	16.6	16.6	16.6	F	45 mm
E mm	476	476	476	476	476	479	481	484	487		



Model XCE Link

* This thickness is determined by the input drive.

Models XCE Link - 3/4", 3:1 Ratio - max. 1150 Nm input / 3450 Nm output (850 / 2,545 ft-lbs)

SW	24	27	32	36	41	46	50	55	60	65	70	75	80	D	156 mm
A mm	10	11	11	12	12	13	13	14	14	15	15	16	16	E	60 mm
B mm	11	11	12	12	13	13	14	14	15	15	16	16	17	F	102 mm
C mm	25	27	30	33	36	40	42	46	49	53	56	59	63	H	38 mm
G mm	241	243	246	249	252	256	258	262	265	269	272	275	279		

Models XCE Link - 1", 3:1 Ratio - max. 2440 Nm input / 7320 Nm output (1,800 / 5,400 ft-lbs)

SW	50	55	60	65	70	75	80	90	100	105	110	115	120	D	208 mm
A mm	13	14	14	15	15	16	16	17	18	19	20	20	21	E	80 mm
B mm	14	14	15	15	16	16	17	18	19	19	20	20	21	F	137 mm
C mm	42	46	49	53	56	59	63	70	76	80	83	87	90	H	51 mm
G mm	330	334	337	341	344	347	351	358	364	368	371	375	378		

Models XCE Link - 3/4", 4:1 Ratio - max. 1150 Nm input / 4600 Nm output (850 / 3,390 ft-lbs)

SW	24	27	32	36	41	46	50	55	60	65	70	75	80	D	196 mm
A mm	10	11	11	12	12	13	13	14	14	15	15	16	16	E	60 mm
B mm	11	11	12	12	13	13	14	14	15	15	16	16	17	F	102 mm
C mm	25	27	30	33	36	40	42	46	49	53	56	59	63	H	38 mm
G mm	281	283	286	289	292	296	298	302	305	309	312	315	319		

Models XCE Link - 1", 4:1 Ratio - max. 2440 Nm input / 9760 Nm output (1,800 / 7,200 ft-lbs)

SW	50	55	60	65	70	75	80	90	100	105	110	115	120	D	262 mm
A mm	13	14	14	15	15	16	16	17	18	19	20	20	21	E	80 mm
B mm	14	14	15	15	16	16	17	18	19	19	20	20	21	F	137 mm
C mm	42	46	49	53	56	59	63	70	76	80	83	87	90	H	51 mm
G mm	384	388	391	395	398	401	405	412	418	422	425	429	432		



YOUR PLUS FOR MORE PERFORMANCE

Increased quality

- Premium production
- Highest quality materials
- Long product life cycles
- 30 years experience in bolting technology
- Made in Germany – international patents

Increased precision

- Precise, customer-specific torques
- High repeatability
- Reliability in permanent operation
- Dokumentation 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

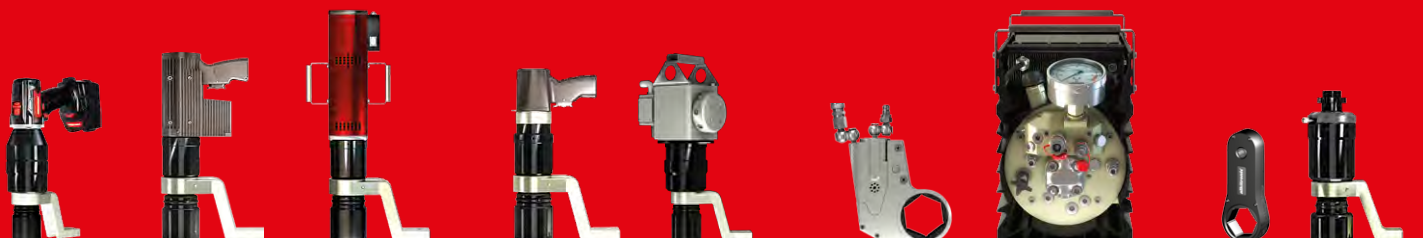
- Technical advice on site
- Training offers
- Manufacturer's calibration and certification
- Lifecycle support
- Spare part and repair service

alki TECHNIK GmbH

Development, Production and Distribution of Bolting Systems

Unterlettenweg 4 – 85051 Ingolstadt/Germany – fon +49 841 97499-0 – fax +49 841 97499-90
info@alkitronic.com – www.alkitronic.com

EXTRACT FROM OUR PRODUCT RANGE



Electric Torque Multiplier

Pneumatic Torque Multiplier

Hydraulic Wrenches and Pumps

Manual Torque Multiplier