

# 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.



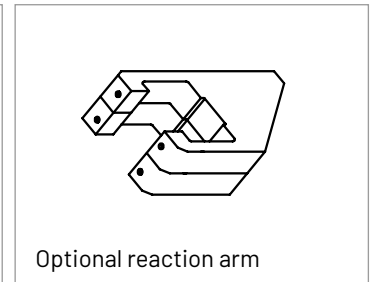
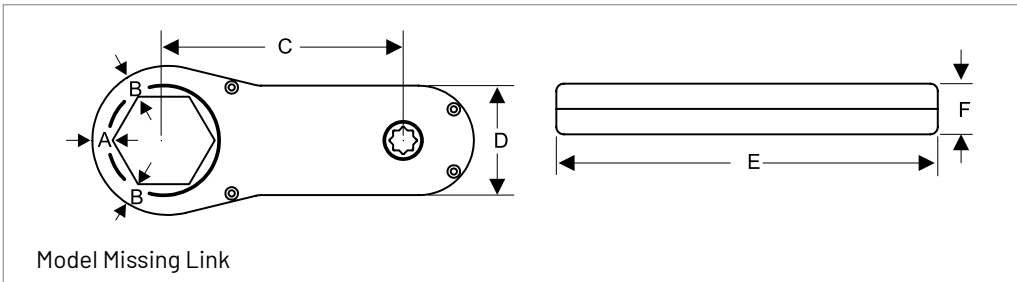
**XCE Link™** with hub style to match the input of all **alkitronic®** torque tools. Continuous rotation for use with any electric or pneumatic driven torque multiplier.



**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



### Models Missing Link - 1/2", 4:1 Ratio - max. 340 Nm input / 1380 Nm output

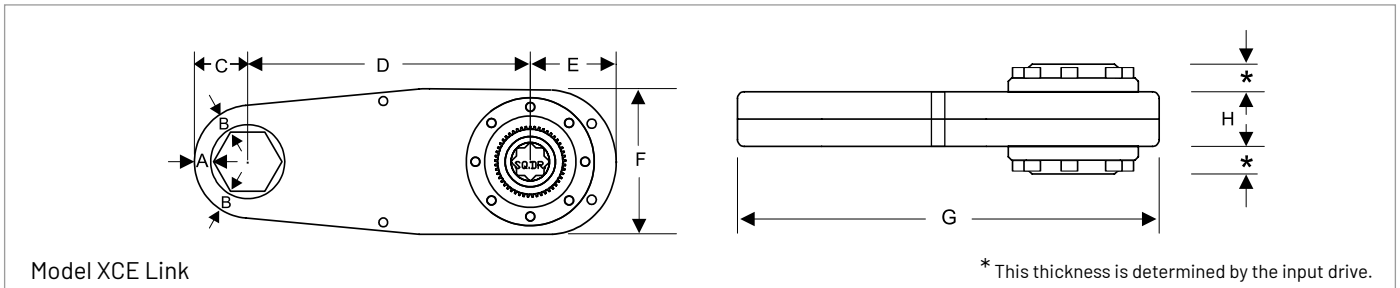
SW	22	24	27	30	32	36	41	46	50	55	60	C	151 mm
A mm	13.5	12	11.1	12	11.1	11.1	11.1	11.1	11.1	11.1	11.1	D	70 mm
B mm	15.1	13.5	12.7	13.5	12.7	12.7	12.7	12.7	12.7	12.7	12.7	F	32 mm
E mm	222	222	222	226	226	228	231	234	236	239	242		

### Models Missing Link - 3/4", 4:1 Ratio - max. 815 Nm input / 3260 Nm output

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

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		



\* This thickness is determined by the input drive.

### Models XCE Link - 3/4", 3:1 Ratio - max. 1150 Nm input / 3450 Nm output

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 <td>60 mm</td>	60 mm
B mm	11	11	12	12	13	13	14	14	15	15	16	16	17	F <td>102 mm</td>	102 mm
C mm	25	27	30	33	36	40	42	46	49	53	56	59	63	H <td>38 mm</td>	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

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 <td>80 mm</td>	80 mm
B mm	14	14	15	15	16	16	17	18	19	19	20	20	21	F <td>137 mm</td>	137 mm
C mm	42	46	49	53	56	59	63	70	76	80	83	87	90	H <td>51 mm</td>	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

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 <td>60 mm</td>	60 mm
B mm	11	11	12	12	13	13	14	14	15	15	16	16	17	F <td>102 mm</td>	102 mm
C mm	25	27	30	33	36	40	42	46	49	53	56	59	63	H <td>38 mm</td>	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

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 <td>80 mm</td>	80 mm
B mm	14	14	15	15	16	16	17	18	19	19	20	20	21	F <td>137 mm</td>	137 mm
C mm	42	46	49	53	56	59	63	70	76	80	83	87	90	H <td>51 mm</td>	51 mm
G mm	384	388	391	395	398	401	405	412	418	422	425	429	432		

# alkitronic®

## 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

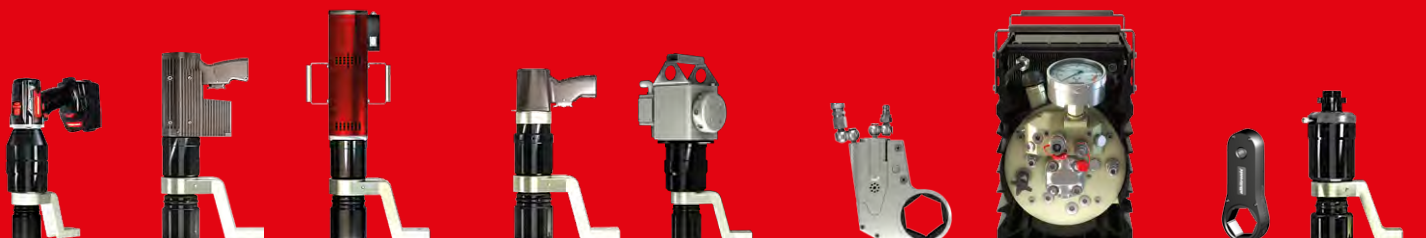
Technical advice on site  
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Lifecycle support  
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alki TECHNIK GmbH

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

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