Thank you for purchasing a Sealeys Product. Manufactured to a high standard this product will, if used according to these instructions and properly maintained, give you years of trouble free performance.

⚠️ *IMPORTANT:* **READ THESE INSTRUCTIONS CAREFULLY. NOTE THE SAFE OPERATIONAL REQUIREMENTS, WARNINGS AND CAUTIONS. USE THIS TOOL CORRECTLY AND WITH CARE FOR THE PURPOSE FOR WHICH IT IS INTENDED. FAILURE TO DO SO MAY CAUSE DAMAGE AND/OR PERSONAL INJURY AND WILL INVALIDATE THE WARRANTY. RETAIN THESE INSTRUCTIONS FOR FUTURE USE.**

1.   SAFETY INSTRUCTIONS

❏ **WARNING!** *Ensure Health & Safety, local authority, and general workshop practice regulations are adhered to when using this equipment.*
❏ **WARNING! DO NOT** use the tool if damaged or thought to be faulty (Contact Service Agent).
✓ Ensure the work area is clean and tidy and free from unrelated materials and there is adequate lighting.
✗ **DO NOT** exceed the rated capacity of the torque multiplier.
✗ **DO NOT** use the torque multiplier for any purpose other than that for which it is designed.
✗ **DO NOT** operate the torque multiplier when you are tired or under the influence of alcohol, drugs or intoxicating medication.
✗ The torque multiplier is a precision tool, **DO NOT** abuse it.
✓ Maintain correct balance and footing. Ensure the floor is not slippery and wear non-slip shoes.
✓ Keep children and unauthorised persons away from the working area.
✗ **DO NOT** drop or throw the torque multiplier.
✗ **DO NOT** use the torque multiplier unless you have been instructed in its use by a qualified person.
✗ **DO NOT** use the torque multiplier with air or electric impact guns.
✓ After use clean and store in a safe, dry, childproof location.

2.   INTRODUCTION & SPECIFICATION

The AK629 Torque multiplier is robustly constructed with a 1/2" Sq. Drive Female input and a 3/4" Sq. Drive Male output. Multiplication of torque is achieved by a planetary gear train with a ratio of 3.3:1. Compatible with a wide range of drive tools including torque and ratchet wrenches. Adjustable length reaction arm make it ideal for limited access use.

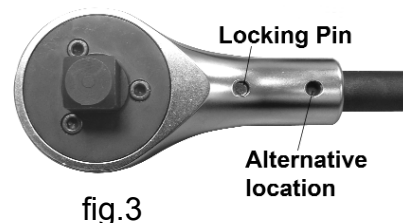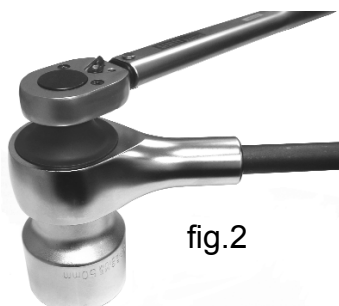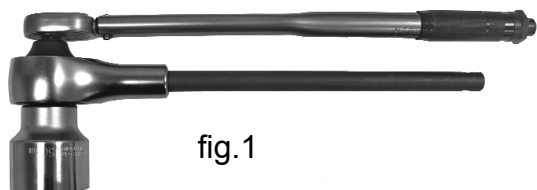**Model:**   **AK629**

Input Drive: . . . . .1/2" Square Female
Output Drive . . . . .3/4" Square Male
Max. Rated Input: . . . . .300Nm(225lb.ft)
Max. Rated Output: . . . . .1000Nm(750lb.ft)
Gear Ratio 3.3:1
Length: 420-450mm

3.   OPERATING INSTRUCTIONS

Please refer to the makers instructions for correct use and setting of the torque wrench.

3.1   The AK629 is used in combination with a suitable drive tool, such as a ratchet wrench or torque wrench fitted into the 1/2" female input socket and a suitable size socket fitted onto the male 3/4" drive square (fig.1).

3.2   If using a torque wrench, calculate the required input figure for the torque wrench by dividing the torque setting for the fixing by a factor of 3.3 or refer to the quick conversion chart overleaf.

3.3   This assembly (fig.2) is now placed on the nut or bolt to be tightened with the reaction arm if possible restrained against some substantial part of the equipment being serviced. Any force applied to the input drive is multiplied by a factor of 3.3 at the output drive of the multiplier. Note: Because the multiplier uses a system of gears, the output drive turns substantially slower than the input drive. When the preset torque setting is reached, the torque wrench mechanism will "click". Stop applying force immediately to avoid overtightening the nut/bolt.

3.4   If required the radius arm can be extended or retracted, use a small screwdriver or similar to push in the locking pin whilst twisting the radius arm and simply manoeuvre the arm until the pin relocates as required (fig.3).

fig.1

fig.2

Locking Pin

fig.3

Alternative location

4. CONVERSION CHART

Select the figure in the 'Output required' column that corresponds with the required torque setting for the fixing to be tightened, then simply select the adjacent setting for your torque wrench.
If the exact figure does not appear then simply divide your required output figure by 3.3.

Output required from Multiplier	Setting required on Torque Wrench	Output required from Multiplier	Setting required on Torque Wrench
lb.ft	lb.ft	Nm	Nm
150	45	200	61
160	49	215	65
170	51	230	70
180	54	245	74
190	58	260	79
200	61	275	83
210	64	290	88
220	67	305	92
230	70	320	97
240	73	335	101
250	76	350	106
260	79	365	111
270	82	380	115
280	85	395	120
290	88	410	124
300	91	425	129
310	94	440	133
320	97	455	138
330	100	470	142
340	103	485	147
350	106	500	152
360	109	515	156
370	112	530	161
380	115	545	165
390	118	560	170
400	121	575	174
410	124	590	179
420	127	605	183
430	130	620	188
440	133	635	192
450	136	650	197
460	139	665	201
470	142	680	206
480	145	695	211
490	148	710	215
500	151	725	220
510	154	740	224
520	158	755	229
530	161	770	233
540	164	785	238
550	167	800	242
560	170	815	247
570	173	830	251
580	176	845	256
590	179	860	261
600	182	875	265
610	185	890	270
620	188	905	274
630	191	920	279
640	194	935	283
650	197	950	288
660	200	965	292
670	203	980	297
680	206	995	301
690	209	1000	303
700	212	-	-
710	215	-	-
720	218	-	-
730	221	-	-
740	224	-	-
750	227	-	-

NOTE: *It is our policy to continually improve products and as such we reserve the right to alter data, specifications and component parts without prior notice.*
IMPORTANT: No liability is accepted for incorrect use of this product.
WARRANTY: Guarantee is 12 months from purchase date, proof of which will be required for any claim.
INFORMATION: For a copy of our catalogue and latest promotions call us on 01284 757525 and leave your full name, address and postcode.

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