

# Dial Measuring

## Torque Wrenches ADS - EDS

### KEY FEATURES

Designed and manufactured to meet or exceed the accuracy and repeatability requirements of ISO 6789:2003

- Tools < 10 N.m ( $\pm 6\%$  of setting): ADS4 & ADS8 models.
- Tools > 10 N.m ( $\pm 4\%$  of setting): All other Dial Wrench models.

For controlled screw tightening and torque measurements.

Non-length dependent.

Dual scale in American and S.I. units. Single scale models are available.

Fine main and memory pointers provide accurate readings.

Exclusive built-in ratchet mechanism.

Standard double-ended spindle ratchet mechanism allows for left handed torque applications.

Single-end spindles available upon request.

Lightweight aluminum handle (w/non-slip grip) for improved balance. Scuff-resistant non-slip finish.

Quality constructed for accuracy and reliability with an attractive abrasive resistant finish for longer life.

Mechanical stop provides overload protection to 125% of full scale.

Recessed dial minimizes dial breakage.

Models serial number labeled for instant identification / traceability.

Torque indicating signal light - standard on CDS, DDS, and EDS models. Optional on certain ADS and BDS models.

ADS models are ESD compliant (IEC 61340-5-1:1998). BDS, CDS, DDS and EDS models are available in ESD upon request.

### TORQUE WRENCHES





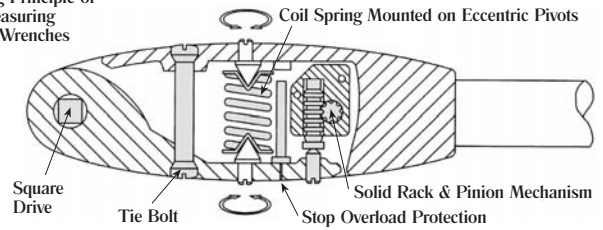
Model	Item #	Calibrated Torque Ranges		Graduation	
		American	S.I.	American	S.I.
ADS4	020100	7 - 35 lbf.in	0.8 - 4 N.m	1 lbf.in	0.1 N.m
ADS8	020101	14 - 70 lbf.in	1.6 - 8 N.m	1 lbf.in	0.25 N.m
ADS12D	020102	24 - 120 lbf.in	2.4 - 12 N.m	2 lbf.in	0.5 N.m
ADS12A	020103	24 - 120 lbf.in	2.4 - 12 N.m	2 lbf.in	0.5 N.m
ADS25	020104	48 - 240 lbf.in	5 - 25 N.m	10 lbf.in	1 N.m
ADS25F	020105	4 - 20 lbf.ft	5 - 25 N.m	0.5 lbf.ft	1 N.m
ADS40	020106	72 - 360 lbf.in	8 - 40 N.m	10 lbf.in	1 N.m
ADS40F	020107	6 - 30 lbf.ft	8 - 40 N.m	1 lbf.ft	1 N.m
BDS80A	020108	12 - 60 lbf.ft	16 - 80 N.m	1 lbf.ft	2 N.m
BDS80AS	020109	12 - 60 lbf.ft	16 - 80 N.m	1 lbf.ft	2 N.m
BDS80E	020110	12 - 60 lbf.ft	16 - 80 N.m	1 lbf.ft	2 N.m
BDS80ES	020111	12 - 60 lbf.ft	16 - 80 N.m	1 lbf.ft	2 N.m
BDS160	020112	24 - 120 lbf.ft	32 - 160 N.m	2 lbf.ft	2.5 N.m
BDS160S	020113	24 - 120 lbf.ft	32 - 160 N.m	2 lbf.ft	2.5 N.m
BDS200	020114	30 - 160 lbf.ft	40 - 200 N.m	5 lbf.ft	5 N.m
BDS200S	020115	30 - 160 lbf.ft	40 - 200 N.m	5 lbf.ft	5 N.m
CDS400S	020117	60 - 300 lbf.ft	80 - 400 N.m	10 lbf.ft	10 N.m
DDS800S	020119	120 - 600 lbf.ft	160 - 800 N.m	20 lbf.ft	20 N.m
EDS1400	020120	200 - 1000 lbf.ft	280 - 1400 N.m	25 lbf.ft	25 N.m
EDS2000	020121	300 - 1500 lbf.ft	400 - 2000 N.m	50 lbf.ft	50 N.m

	Sq. Drive in.	Light Signal	Head Ht.		Length		Weight	
			in.	mm	in.	mm	lbs.	kg.
ADS4	1/4	*	2.40	61	9.60	244	1.15	0.52
ADS8	1/4	*	2.40	61	9.60	244	1.15	0.52
ADS12D	1/4	*	2.40	61	9.60	244	1.15	0.52
ADS12A	3/8	*	2.70	69	9.60	244	1.15	0.52
ADS25	3/8	*	2.70	69	9.60	244	1.15	0.52
ADS25F	3/8	*	2.70	69	9.60	244	1.15	0.52
ADS40	3/8	*	2.70	69	9.60	244	1.15	0.52
ADS40F	3/8	*	2.70	69	9.60	244	1.15	0.52
BDS80A	3/8	-	3.06	78	17.12	435	2.98	1.35
BDS80AS	3/8	Yes	3.06	78	17.31	440	3.24	1.47
BDS80E	1/2	-	3.39	86	17.12	435	3.00	1.36
BDS80ES	1/2	Yes	3.39	86	17.31	440	3.28	1.49
BDS160	1/2	-	3.39	86	20.27	515	3.10	1.41
BDS160S	1/2	Yes	3.39	86	20.47	520	3.39	1.54
BDS200	1/2	-	3.39	86	20.27	515	3.10	1.41
BDS200S	1/2	Yes	3.39	86	20.47	520	3.39	1.54
CDS400S	3/4	Yes	4.38	111	27.95	705	6.94	3.15
DDS800S	3/4	Yes	4.88	123	39.37	1000	10.70	4.85
EDS1400	1	Yes	5.40	138	80.3	2040	36.72	16.69
EDS2000	1	Yes	5.40	138	80.3	2040	36.72	16.69

**NOTE!**

\* SPECIAL ORDER  
 All Light Signal Wrenches use standard size batteries.  
 All ADS - EDS wrenches available in single scale models.  
 ADS and BDS models are supplied with a protective plastic case.  
 EDS models available with single or double-end, but not with a ratchet end.  
 For Single-End Spindle, specify SE after the model name. Example: ADS4-SE

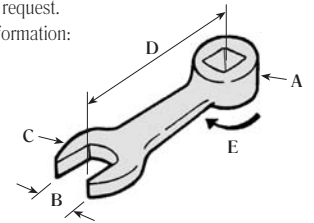
**Working Principle of Dial Measuring Torque Wrenches**



**EXTENSION SPANNERS**

Special extensions spanners are available upon request. When ordering, please provide the following information:

- A) Square drive size.
- B) Size of spanner end.
- C) End type - Box, Open, or Flared.
- D) Center distance between the square drive and the spanner end fitting.
- E) Maximum torque to be applied.

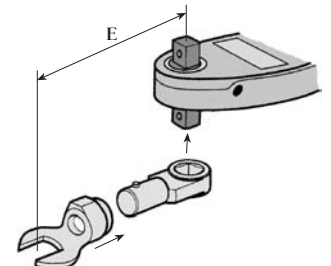


**NOTE!**  
 Due to the low torque ranges and high accuracy, it is recommended that Models ADS4 & ADS8 should not be used with Extension Spanners.

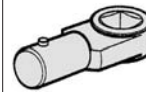
**EXTENSION ADAPTERS**

Adapters offer an alternative solution for overcoming space and access limitations and are available upon request.

1. Place the end fitting to the extension adapter.
2. Attach to the wrench's square drive.
3. Measure and note distance "E" from the center of the end fitting to the wrench square drive.



16mm Spigot



German 9x12 End Fitting



Dovetail End Fitting



Square Drive	Item #	Item #	Item #
3/8"	20-A96102	20-A96112	20-A96122
1/2"	20-A96103	20-A96113	20-A96123

**NOTE!**  
 Extension Adapters cannot be used with the ADS4, ADS8 and ADS12D.

When using extension spanners or adapters, the torque applied to the fastener is greater than that shown on the torque wrench dial. To calculate the increase, please use the formula on page 07.2.