Flat Beam

M Series

The four most important requirements of a torque wrench, accuracy, reliability, durability, and low ownership cost, are combined into these exceptional tools. Accuracy is literally ground into the wrench. The special alloy steel beam is ground to a rate of deflection with the use of dead weights, rather than a dimensional tolerance. This process is time consuming and very labor intensive, but the result is a tool that remains accurate as long as the beam is intact and the pointer is on zero under no-load condition. The flat shape of the beam insures the wrench remains at a right angle to the fastener, reducing or eliminating side-loading error. This unique taper-grinding distributes stress evenly along the entire length of the beam, extending tool life indefinitely. With a minimum of moving parts, these tools are virtually repair and maintenance free.



Features

- Incredibly durable design - actual service life frequently measured in decades!
- Very low cost of ownership - exceptional accuracy retention permits extended calibration intervals, and they are virtually maintenance and repair free!
- Ideal for prevailing-torque and destructive testing applications.
- Low mass/low inertia design of pointers helps eliminate reading distortion.
- Memory feature consists of fingers which follow a track in the scale and remain in place to indicate maximum torque achieved.
- Peak torque indicated on scale is accurate, even on destructive testing applications.
- Pivoted handle concentrates load at precise point on lever to assure torque accuracy.
- Meets or exceeds ASME B107.300 - 2010 and ISO 6789.
- Accuracy of all flat beams is +/- 2% of indicated value from 20% to 100% of capacity, in both directions.
- Includes FREE calibration certificate from our ISO/IEC 17025 Accredited Laboratory.

Crowfoot Adapter

- Gain the significant advantage of our interchangeable head system by attaching the SRA to any fixed square drive wrench.
- Ideal for use when a direct reading torque wrench is required but space is limited.
- Use of an adapter requires calculation of torque output.
- When used with our 1 7/16” (36.5mm) Interchangeable Heads the adapter length will be 3” (76.3mm).



Crowfoot Adapter

Part Number	Model	Description
850653	SRA-⅜	⅜ Female-Male Dovetail
850655	SRA-½	½ Female-Male Dovetail

⚠WARNING

- Do not exceed rated torque
- Do not use to break fasteners loose
- Periodic recalibration is necessary to maintain accuracy
- Read safety precautions on page 61

Flat Beam Memory Series - English

	Part No.	Model	Torque Capacity	Steps of Graduations	Square Drive	Lever Arm Distance	Dimensions (in.) A	B	C	D	Weight
●	850233	M 32 IO	0-32 in. ozs.	2 in. ozs.	¼ in.	6.0 in.	6.875	1.0469	0.25	2.25	0.2 lbs.
●	850254	M 80 IO	0-80 in. ozs.	5 in. ozs.	¼ in.	6.2 in.	6.844	1.4844	0.25	2.25	0.25 lbs.
●	850202	M 160 IO	0-160 in. ozs.	10 in. ozs.	¼ in.	6.0 in.	6.844	1.4844	0.25	2.25	0.25 lbs.
■	850188	M 10 I	0-10 in. lbs.	½ in. lb.	¼ in.	6.0 in.	6.844	1.50	0.25	2.25	0.25 lbs.
●	850222	M 25 I	0-25 in. lbs.	1 in. lb.	⅜ in.	6.3 in.	6.844	1.7813	0.375	2.25	0.4 lbs.
●	850242	M 50 I	0-50 in. lbs.	2 in. lbs.	⅜ in.	6.0 in.	6.875	1.7032	0.375	2.25	0.4 lbs.
●	850191	M 100 I	0-100 in. lbs.	5 in. lbs.	⅜ in.	6.5 in.	7.4375	1.7032	0.375	2.25	0.4 lbs.
■	850211	M 200 I	0-200 in. lbs.	10 in. lbs.	⅜ in.	9.0 in.	7.4375	1.7032	0.375	2.75	0.5 lbs.
■	850228	M 300 I	0-300 in. lbs.	10 in. lbs.	⅜ in.	13.5 in.	16.0	3.797	0.375	3.797	2.75 lbs.
■	850246	M 600 I	0-600 in. lbs.	25 in. lbs.	⅜ in.	13.5 in.	16.0	3.797	0.375	3.797	2.75 lbs.
■	850247	M 600 I	0-600 in. lbs.	25 in. lbs.	½ in.	13.5 in.	16.0	3.797	0.5	3.797	2.75 lbs.
■	850195	M 1200 I	0-1200 in. lbs.	50 in. lbs.	½ in.	15.0 in.	17.50	3.797	0.5	3.797	2.75 lbs.
■	850205	M 1800 I	0-1800 in. lbs.	50 in. lbs.	½ in.	18.0 in.	20.563	3.797	0.5	3.797	3.75 lbs.
■	850220	M 25	0-25 ft. lbs.	1 ft. lb.	⅜ in.	13.5 in.	16.0	3.797	0.375	3.797	2.75 lbs.
■	850240	M 50	0-50 ft. lbs.	2 ft. lbs.	⅜ in.	13.5 in.	16.0	3.797	0.375	3.797	2.75 lbs.
■	850241	M 50	0-50 ft. lbs.	2 ft. lbs.	½ in.	13.5 in.	16.0	3.797	0.5	3.797	2.75 lbs.
■	850190	M 100	0-100 ft. lbs.	5 ft. lbs.	½ in.	15.0 in.	17.50	3.797	0.5	3.797	2.75 lbs.
■	850198	M 150	0-150 ft. lbs.	5 ft. lbs.	½ in.	18.0 in.	20.563	3.797	0.5	3.797	3.75 lbs.
■	850227	M 300	0-300 ft. lbs.	10 ft. lbs.	¾ in.	30.0 in.	34.25	5.156	0.75	3.797	10.75 lbs.

Flat Beam Memory Series - Newton Metre

	Part No.	Model	Torque Capacity	Steps of Graduations	Square Drive	Lever Arm Distance	Dimensions (cm) A	B	C	D	Weight
●	855276	M 110 cNm	0-110 cNm	5 cNm	¼ in.	152.4 mm	17.37	1.59	0.64	5.72	0.5625 kg
●	855281	M 2.5 Nm	0-2.5 Nm	.1 Nm	⅜ in.	158.8 mm	17.37	3.12	0.95	5.72	0.765 kg
●	855282	M 5 Nm	0-5 Nm	.2 Nm	⅜ in.	152.4 mm	17.37	3.12	0.95	5.72	0.765 kg
●	855283	M 12 Nm	0-12 Nm	.5 Nm	⅜ in.	165.1 mm	18.87	3.12	0.95	5.72	0.855 kg
■	855284	M 22 Nm	0-22 Nm	1 Nm	⅜ in.	228.6 mm	25.15	3.12	0.95	6.99	1.125 kg
■	855285	M 34 Nm	0-34 Nm	1 Nm	⅜ in.	340.4 mm	40.64	6.17	0.95	9.63	6.1875 kg
■	855287	M 70 Nm	0-70 Nm	2 Nm	⅜ in.	342.9 mm	40.64	6.17	0.95	9.63	6.1875 kg
■	855288	M 70 Nm	0-70 Nm	2 Nm	½ in.	342.9 mm	40.64	6.50	1.27	9.63	6.1875 kg
■	855289	M 140 Nm	0-140 Nm	5 Nm	½ in.	381.0 mm	40.64	6.50	1.27	9.63	6.1875 kg
■	855290	M 210 Nm	0-210 Nm	10 Nm	½ in.	457.2 mm	52.22	6.50	1.27	9.63	8.4375 kg
■	855292	M 410 Nm	0-410 Nm	10 Nm	¾ in.	762.0 mm	87.00	10.59	1.91	20.32	24.1875 kg

● Pivoted Ball Handle



■ Pivoted Handle



