

## Direct Indicating Torque Wrench – M (Flat Beam)



### Flat Beam Torque Wrench with Memory Pointer

The error proofing industry started with a deflecting beam wrench built and sold by Paul Allan Sturtevant. That was 1924. SR still makes these steel work horses today. Highly accurate, very easy to use, and so durable they often last for decades – and decades!

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.

These tools are based on a physical law (Hooke's Law) that does not change; exceptional accuracy retention permits extended calibration intervals and extremely low ownership cost.

Flat and Tapered Beam torque wrenches have a very low cost of ownership; they are virtually maintenance and repair free! Our beam wrenches have had extensive daily use in automobile production lines and are still within tolerance and fully operational after twenty-five years on the job.

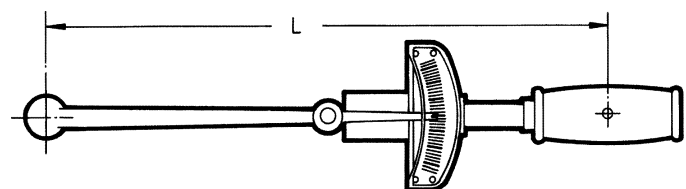
Alternative models from 0.08 Nm up to 1000 Nm available. Please do not hesitate to ask.

INFO

For most models of this series 'M' a NATO approval (NSN) is available.

INFO

- Bi-directional accuracy of  $\pm 2\%$  of Indicated Value from 20% to 100% of rated capacity.
- Meets or exceeds requirements of ASME B107.300-2010 and EN ISO 6789.
- Ideal for prevailing-torque and destructive testing applications.
- Memory feature consists of fingers which follow a track in the scale and remain in place to indicate peak torque achieved.
- Low mass/low inertia design of pointers helps eliminate reading distortion.
- Pivoted handle concentrates load at a precise point on lever to assure torque accuracy.
- Includes FREE certificate of calibration from SR's ISO/IEC 17025 Accredited Calibration Laboratory!



### Flat Beam Series M

Accuracy  $\pm 2\%$

Model	Item No.	Torque Range *		Graduation		SqDrv inch	Handle Shape	L mm	Weight kg
		cN·m	lbf·ft	cN·m	lbf·ft				
M-110 cNm	R855276	110	–	5	–	1/4	Kugel	152	0.11
M-25	R850220	–	2.5 - 25	–	1	3/8	Ballen	343	1.25
M-50	R850240	–	5 - 50	–	2	3/8	Ballen	343	1.25
M-50	R850241	–	5 - 50	–	2	3/8	Ballen	343	1.25
M-100	R850190	–	10 - 100	–	5	1/2	Ballen	381	1.33
M-300	R850227	–	30 - 300	–	10	3/4	Ballen	762	4.88

\* It is recommended to primarily use in medium performance range (approx. 1/3 to 4/5 of rated capacity). If you mainly worked close to the limit of load (maximum capacity), a larger model may be more recommendable.

