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Torque Wrench

DB / DBE / DBR Dial Indicating Torque Wrench

DIRECTION [RoHS](#) [FOR INSPECTIONS](#) [DIAL INDICATING](#) [DIRECT READING](#) [MEMORY POINTER](#)

Features

- Wide range and high accuracy dial indicating torque wrench. Ideal for torque quality inspections
- Easy to ready dial face has follower hand memory pointer that stays on peak torque for convenient reference
- Use for tightening purposes by simply rotating the dial to the desired torque. Completed tightening is achieved when the pointer indicates "0".
- DB is not length dependent. Therefore, accuracy is consistent regardless of where the hand is placed during operation.
- The dial indicator has a full-surround protective cover to prevent damage to external objects (except DB420N, DBE, and DBR series models).
- DB25N to DB280N models have a resin grip. Lowest torque range models have index finger handles designed to guide you to use light hand force to avoid possible over-torque.
- DBE has an extension handle.
- For DBR models, applies load by lever block or winch.
- Applicable for international use including the EU region. Compliant with calibration procedures of ISO 6789 Type I Class B.



DB100N-S [overall length 400 mm]



DB12N4-S [overall length 205 mm]



DBE700N [overall length 1260 mm]



DBE2100N-S [overall length 2140 mm with extension bar]

Specifications

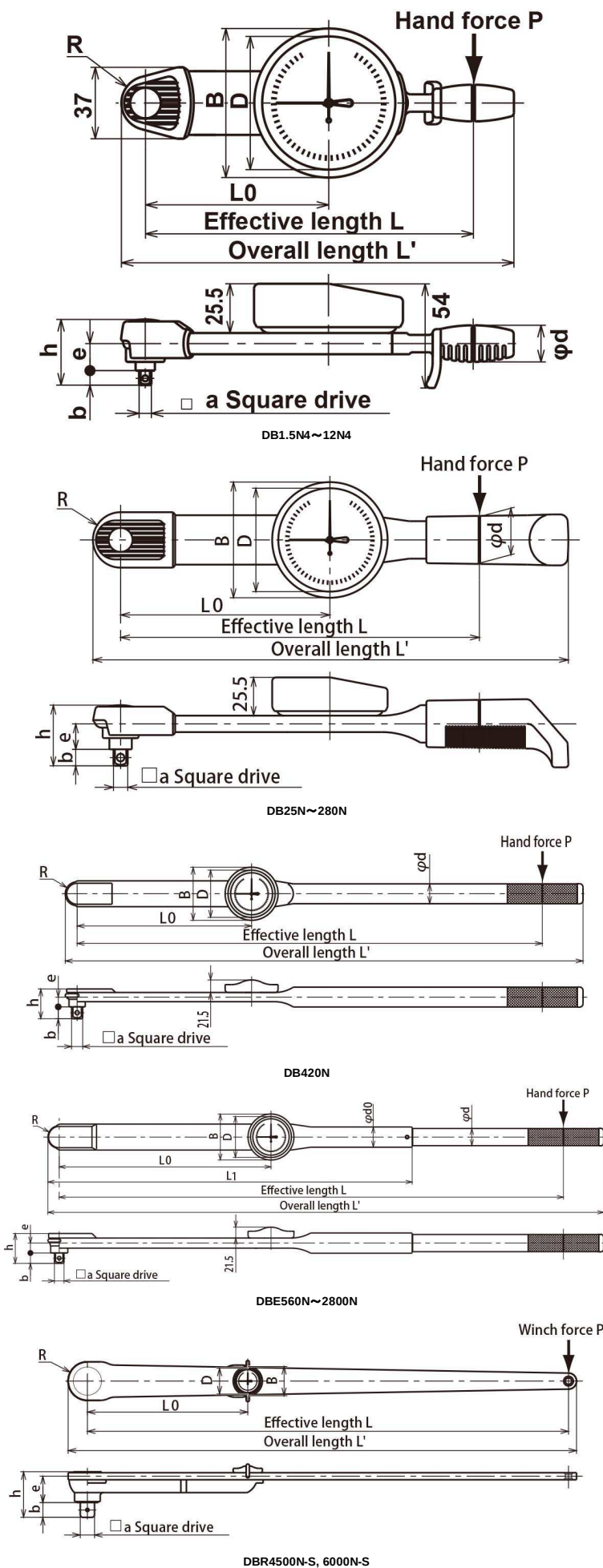
S.I. MODEL		DB1.5N4-S	DB3N4-S	DB6N4-S	DB12N4-S	DB25N- 1/4-S	DB25N-S	DB50N-S	DB100N- 3/8-S	DB100N-S	-	-	-	DB200N-S	-	DB280N- 1/2-S	DB280N-S	DB420N-S	Accuracy ±3%
TORQUE RANGE [N • m]	MIN.~MAX.	0.2~1.5	0.3~3	0.6~6	1~12	3~25		5~50	10~100		-	-	-	20~200	-	30~280		40~420	
	GRAD.	0.02	0.05	0.1	0.2	0.5			1		-	-	-	2	-	5			
METRIC MODEL		15DB4-S	30DB4-S	60DB4-S	120DB4-S	230DB3-1/4-S	230DB3-S	450DB3-S	900DB3-1/4-S	900DB3-S	-	-	-	1800DB3-S	-	2800DB3-1/2-S	2800DB3-S	4200DB2-S	
TORQUE RANGE [kgf • cm / kgf • m]	MIN.~MAX.	kgf • cm2~15	3~30	6~60	10~120	30~250		50~500	100~1000		-	-	-	200~2000	-	kgf • m 3~28		4~42	
	GRAD.	kgf • cm0.2	0.5	1	2	5			10		-	-	-	20	-	kgf • m0.5			
AMERICAN MODEL		DB13I- 2AS	DB26I- 2AS	DB40I- 2AS	DB75I- 2AS	DB150I- 2AS	DB150I- 3AS	DB300I- 3AS	DB600I- 3AS	DB600I- 4AS	DB25F- 3AS	DB50F- 3AS	DB50F- 4AS	DB100F- 4AS	DB175F- 4AS	-	DB250F- 6AS	DB350F- 6AS	
TORQUE RANGE [lbf • in / lbf • ft]	MIN.~MAX.	lbf • in0~13	0~26	0~40	0~75	0~150		0~300	0~600		lbf • ft0~25	0~50	0~50	0~100	0~175	-	0~250	0~350	
	GRAD.	lbf • in0.2	0.5		1	2		5	10		lbf • ft0.5		1	2	-	-	5		
APPLICABLE BOLT	STEEL	(M3.5)	M4 (M4.5)	M5, M6	(M7)	M8		M10	M12 (M14)		M10	M12 (M14)		M16 (M18)		M20		(M22)	
	HIGHT TENSION	M3 (M3.5)	M4	M4 (M4.5)	M5, M6	(M7)		M8	M10		M8	M10		(M14)		M16		(M18)	
MAX. HAND FORCE P [N]		8.8	17.6	35.3	70.6	125		208	323		141.2	218.7		488	486.2	467		525	
DIMENSION [mm]	EFFECTIVE LENGTH	L	170				200	240	310		240	310		488	488	600		800	
	OVERALL LENGTH	L'	205				245	320	400		320	400		500	580	690		890	
	WIDTH	B					77.2										91		
	SCALE DIA.	D					69										81		
	SQ. DRIVE	a	6.35				9.53		12.7		9.53		12.7		19.05				
		b	7.5		8.5		11		12.4		11		12.4		14		20.5		
		e	26.5				29.5		41.9		17		33.2		16.3		31.6		32.6
	HEAD	h	34		38		40.5		41.9		40.5		41.9		43.5		47.2		53.1
		R	14						18.5						21.5				18
	BODY	d	19				30.6		32		31.3		32		31.3		35.4		34
WEIGHT [kg]		L0	95		0.4		110		0.6		180		0.7		180		230		300
									0.6				0.6		1		1.65		2.5

Accuracy ±3%									
S.I. MODEL	DBE560N-S	DBE700N-S	DBE850N-S	DBE1000N-S	DBE1400N-S	DBE2100N-S	DBE2800N-S	DBR4500N-S	DBR6000N-S
TORQUE RANGE [N • m]	MIN.~MAX. 50~560	70~700	100~850	100~1000	200~1400	200~2100	300~2800	500~4500	600~6000
METRIC MODEL	1 GRAD. 5	10	20	50	100				
TORQUE RANGE [kgf • m]	MIN.~MAX. 5~56	7~70	10~85	10~100	20~140	20~210	30~280	50~450	60~600
1 GRAD.	0.5	1	2	5					
AMERICAN MODEL	-	DB500F-6AS	-	DB800F-8AS	DB1000F-8AS	DB1500F-8AS	DB2000F-12AS	DB3000F-12AS	-
TORQUE RANGE [lbf • ft]	MIN.~MAX. -	0~500	-	0~800	0~1000	0~1500	0~2000	0~3000	-
1 GRAD.	-	10	-	-	10	20	50	-	-
APPRICABLE BOLT	STEEL M24	(M27)	M30	(M33)	M36	(M39)M42	(M45)M48	M52	
MAX. HAND FORCE P [N]	M20	(M22)	M24	(M27)	M30	(M33)	M36(M39)	M42(M45)	
EFFECTIVE LENGTH (L)	1000	1150	1250	1350	1600	2000	2240	1200	1500
OVERALL LENGTH (L)	1100	1260	1360	1490	1740	2140	2380	1285	1585
WIDTH (B)	91							128	
SCALE DIA. (D)	81							91	
SQ. DRIVE (a)	19.05	25.4					38.1	44.45	
SQ. DRIVE (b)	20.5	26.5				28.5	42	46	
HEAD (e)	38.6	42.5	37.4	32.5	41.5	44.8	57.5	97	
HEAD (h)	59.1	63	63.9	59	68	73.3	99.5	138	142
HEAD (R)	21	22.5	25	30	32.5	30	32.5	60	
BODY (L1)	723	803.5	805	730	722.5	882.5			
BODY (d)	34		38		34				
BODY (d0)	40		45		51	60	63.5		
BODY (L0)	420				500				
WEIGHT [kg]	4.0	5.5	6.1	6.4	8.6	12.8	16.8	24.5	25.5

Notes

Load applied to DBR with lever block or winch.
For models having over 25.4 mm square drive, use with a through-hole socket.

Dimensions



Accessories



Sockets



Tool Set for DB



Carrying Case