

DB/DBE/DBR

Inspection

Dial Indicating

Direct Reading

RoHS

Direction Dial Indicating Torque Wrench



DB12N4



DB100N



DBE700N



Memory Pointer (Red needle)

DB Optional Accessories



(846)

Carrying Case (P.46)

Part #	Applicable Model Dimension [mm]	Weight [kg]
(846)	DB100N-S, CDB100N x 15D-S or less (H170 x W500 x D100)	1.0
(847)	DB280N-S, CDB280N x 22D-S or less (H170 x W740 x D100)	1.6

- Memory pointer for easy torque reading
- Ideal for torque measuring and quality check applications

Accuracy ±3%

S.I. Model	Torque Range [N·m/kN·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Overall Length [mm]	Square Drive [mm]	Weight [kg]	
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.				
DB1.5N4-S	0.2-1.5	0.02	15DB4-S	2-15	0.2	DB13I-2AS	0-13	0.2				
DB3N4-S	0.3-3	0.05	30DB4-S	3-30	0.5	DB26I-2AS	0-26					
DB6N4-S	0.6-6	0.1	60DB4-S	6-60	1	DB40I-2AS	0-40		205	6.35	0.4	
DB12N4-S	1-12	0.2	120DB4-S	10-120	2	DB75I-2AS	0-75	1				
DB25N-1/4-S			230DB3-1/4-S			DB150I-2AS						
DB25N-S	3-25		230DB3-S	30-250	5	DB150I-3AS	0-150	2	245		0.6	
DB50N-S	5-50		450DB3-S	50-500		DB300I-3AS	0-300	5	320		9.5	
DB100N-3/8-S			900DB3-3/8-S			DB600I-3AS						
DB100N-S	10-100	1	900DB3-S	100-1000	10	DB600I-4AS	0-600	10	400		0.7	
							lbf·ft	lbf·ft				
						DB25F-3AS	0-25		320		0.6	
						DB50F-3AS		0.5		9.5		
						DB50F-4AS	0-50		400		0.7	
DB200N-S	20-200	2	1800DB3-S	200-2000	20	DB100F-4AS	0-100	1	500			
				kgf·m	kgf·m						12.7	1.0
						DB175F-4AS	0-175	2	540			
DB280N-1/2-S			2800DB3-1/2-S									
	30-280			3-28					690		1.65	
DB280N-S			2800DB3-S			DB250F-6AS	0-250					
		5			0.5			5				
DB420N-S	40-420		4200DB2-S	4-42		DB350F-6AS	0-350		890		2.5	
										19.0		
DBE560N-S	50-560		5600DBE2-S	5-56					1100		4.0	
DBE700N-S	70-700		7000DBE2-S	7-70		DB500F-6AS	0-500	10	1260		5.5	
DBE850N-S	100-850	10	8500DBE2-S	10-85	1				1360		6.1	
DBE1000N-S	100-1000		10000DBE2-S	10-100		DB800F-8AS	0-800		1490		6.4	
								10		25.4		
DBE1400N-S	200-1400		14000DBE2-S	20-140		DB1000F-8AS	0-1000		1740		8.6	
		20			2							
DBE2100N-S	200-2100		21000DBE2-S	20-210		DB1500F-8AS	0-1500		2140		12.8	
								20				
DBE2800N-S	300-2800	50	28000DBE2-S	30-280		DB2000F-12AS	0-2000		2380		16.8	
										38.1		
	kN·m	kN·m										
DBR4500N-S	0.5-4.5	0.05	45000DBR-S	50-450	5	DB3000F-12AS	0-3000	50	1285		26.5	
DBR6000N-S	0.6-6	0.1	60000DBR-S	60-600					1585	44.5	27.5	

- Note
1. "Without memory pointer" models are available. Remove "-S" from the model name when ordering. (Ex. DB100N)
 2. DBR models require winch or mechanical loading device.
 3. DBR Models are supplied upon request.
 4. For models having over 25.4mm square drive, use with a through-hole socket.

CDB-S

Interchangeable Head Type Dial Indicating Torque Wrench

Direction



CDB14N4x8D-S



CDB100N15D-S

Inspection Dial Indicating Interchangeable Direct Reading Memory Pointer RoHS

- Interchangeable head version of DB
- Ideal for torque measuring and quality inspections

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Overall Length [mm]	Weight [kg]	Tohnichi Head Size
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
CDB7N4x8D-S	0.7-7	0.1	70CDB4-S	7-70	1	70CDB4-A-S	6-60	1	215	0.45	8D
CDB14N4x8D-S	2-14	0.2	140CDB4-S	20-140	2	140CDB4-A-S	20-120	2			
CDB25N10D-S	3-25	0.5	250CDB-S	30-250	5	250CDB-A-S	30-220	5	255	0.48	10D
CDB50N12D-S	5-50		500CDB-S	50-500		500CDB-A-S	40-430		330	0.53	12D
CDB100N15D-S	10-100	1	1000CDB-S	100-1000	10	1000CDB-A-S	7-70	1	415	0.76	15D
CDB200N19D-S	20-200	2	2000CDB-S	200-2000	20	2000CDB-A-S	14-140	2	525	1.0	19D
CDB300N22D-S	30-300	5	3000CDB-S	3-30	0.5	3000CDB-A-S	20-220	5	720	1.65	22D
CDB420N22D-S	40-420		4200CDB-S	4-42		4200CDB-A-S	30-300		920	2.7	

- Note
1. Overall length does not include interchangeable head.
 2. PH (Pipe wrench head) type interchangeable head is not available for this model.
 3. Interchangeable heads are optional.

SCDB-S

European Style Interchangeable Head Type Dial Indicating Torque Wrench

Direction



SCDB50N-S

Inspection Dial Indicating Interchangeable Direct Reading Memory Pointer RoHS

- Specialized version of DB
- Accepts DIN interchangeable head connection

Accuracy ±3%

S.I. Model	Torque Range [N·m]		Head Size [mm]	Overall Length [mm]	Weight [kg]
	Min.-Max.	Grad.			
SCDB25N-9x12-S	3-25	0.5	9x12	271	0.48
SCDB50N-9x12-S	5-50		9x12	342	0.53
SCDB100N-9x12-S	10-100	1	9x12	422	0.76
SCDB200N-14x18-S	20-200	2	14x18	535	1

- Note
1. Overall length does not include interchangeable head.
 2. Applicable to European style head. Tohnichi's interchangeable heads are not available for this model.

T-S

T-Handle Dial Indicating Torque Wrench

Direction



T90N-S

Inspection Dial Indicating Direct Reading Memory Pointer RoHS

- Dual handle for increased stability
- Memory pointer for easy reading

Accuracy ±3%

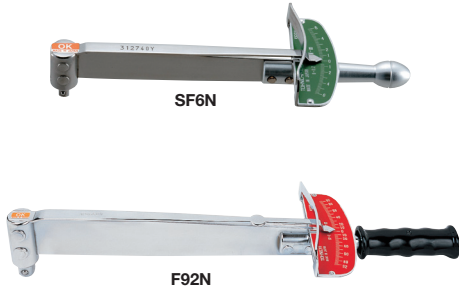
S.I. Model	Torque Range [N·m]		Metric Model	Torque Range [kgf·cm/kgf·m]		American Model	Torque Range [lbf·in/lbf·ft]		Overall Length [mm]	Neck Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.				
T23N-S	3-23	0.5	230T-S	30-230	5	T200I-3AS	20-200	2	205	71	9.5	0.41
T45N-S	5-45		450T-S	50-450		T400I-3AS	50-400	5	261	82		
T90N-S	10-90	1	900T-S	100-900	10	T65F-4AS	10-65	1	376	102.5	12.7	0.8
T180N-S	20-180	2	1800T-S	200-1800	20	T130F-4AS	20-130	2	656	118.5		
T700N-S	70-700	10	7000T-S	7-70	1	7000T-A-S	50-500		1300		19.0	4
T1000N-S	100-1000		10000T-S	10-100		10000T-A-S	50-700		1630			
T1400N-S	200-1400	20	14000T-S	20-140	2	14000T-A-S	100-1000	10	1880		25.4	6.2
T2100N-S	200-2100		21000T-S	20-210		21000T-A-S	200-1500		2500			
T2800N-S	300-2800	50	28000T-S	30-280	5	28000T-A-S	200-2000	20	2960		38.1	15.5
T4200N-S	400-4200		42000T-S	40-420		42000T-A-S	400-3000	50	3660			

- Note
1. T700N-S to T4200N-S models are supplied upon request.
 2. For models having over 25.4mm square drive, use with a through-hole socket.

SF/F/FR

Beam Type Torque Wrench

Direction



SF6N

F92N

Inspection Beam Direct Reading RoHS

- Direct reading torque wrench with scale plate
- For measuring and tightening applications

Accuracy ±3%

S.I. Model	Torque Range [N-m/N-m]		Metric Model	Torque Range [kgf-cm/kgf-m]		American Model	Torque Range [lbf-in/lbf-ft]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
SF40CN	8-40		4SF	kgf-cm	0.8-4	4SF-A	lbf-in	0-3.4	115		0.04
SF70CN	10-70		7SF	kgf-cm	1-7	7SF-A	lbf-in	0-6	135		0.05
SF1.5N	0.2-1.5	N-m	15SF	kgf-cm	2-15	15SF-A	lbf-in	0-13	145	6.35	0.07
SF3N	0.5-3	0.05	30SF	kgf-cm	5-30	30SF-A	lbf-in	0-26	1	175	0.09
SF6N	0.6-6	0.2	60SF	kgf-cm	6-60	60SF-A	lbf-in	0-50	2	205	0.2
SF12N	2-12		120SF	kgf-cm	20-120	120SF-A	lbf-in	0-100		235	0.25
F23N	3-23	0.5	230F	kgf-cm	30-230	230F-A	lbf-in	0-200	5	295	0.4
F46N	5-46	1	460F	kgf-cm	50-460	460F-A	lbf-in	0-400	10	355	0.6
F92N	10-92		920F	kgf-cm	100-920	920F-A	lbf-in	10-66		400	0.95
F130N	20-130		1300F	kgf-cm	200-1300	1300F-A	lbf-in	10-95	2	445	1.2
F190N	30-190		1900F	kgf-cm	300-1900	1900F-A	lbf-in	25-135		490	1.5
F280N	50-280		2800F	kgf-cm	5-28	2800F-A	lbf-in	30-200	5	565	2.2
F420N	70-420		4200F	kgf-cm	7-42	4200F-A	lbf-in	30-300	1	825	3.5
F560N	100-560		5600F	kgf-cm	1000-5600	5600F-A	lbf-in	50-400		945	4.0
F700N	100-700		7000F	kgf-cm	1000-7000	7000F-A	lbf-in	50-500	10	1175	6.0
F850N	100-850		8500F	kgf-cm	10-85	8500F-A	lbf-in	60-600		1410	7.8
F1000N	100-1000		10000F	kgf-cm	10-100	10000F-A	lbf-in	70-700		1640	8.8
FR1050N	100-1050		10500FR	kgf-cm	10-105	10500FR-A	lbf-in	100-750	20	835	25.4
FR1400N	200-1400		14000FR	kgf-cm	20-140	14000FR-A	lbf-in	100-1000		981	11.5
FR2100N	300-2100		21000FR	kgf-cm	30-210	21000FR-A	lbf-in	200-1500		1148	14.5
FR2800N	300-2800		28000FR	kgf-cm	30-280	28000FR-A	lbf-in	200-2000		1292	20
FR4200N	400-4200		42000FR	kgf-cm	40-420	42000FR-A	lbf-in	300-3000	50	1460	28
FR6000N	600-6000		60000FR	kgf-cm	60-600	60000FR-A	lbf-in	400-4300		1624	30

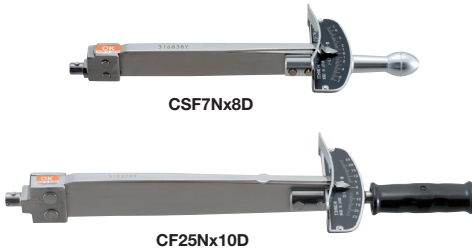
- Note
1. FR models are supplied upon request.
 2. FR models require winch or mechanical loading device.
 3. For models having over 25.4mm square drive, use with a through-hole socket.

Torque Wrench for Quality Inspection

CSF/CF

Interchangeable Head Type Beam Type Torque Wrench

Direction



CSF7Nx8D

CF25Nx10D

Inspection Beam Interchangeable Direct Reading RoHS

- Interchangeable head version of SF/F
- For measuring and tightening applications

Accuracy ±3%

S.I. Model	Torque Range [N-m]		Metric Model	Torque Range [kgf-cm/kgf-m]		American Model	Torque Range [lbf-in/lbf-ft]		Overall Length [mm]	Tohnichi Head Size	Weight [kg]	
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.				
CSF7Nx8D	1-7	0.2	70CSF	kgf-cm	10-70	70CSF-A	lbf-in	2	220	8D	0.2	
CSF14Nx8D	2-14	0.5	140CSF	kgf-cm	20-140	140CSF-A	lbf-in	5	250		0.25	
CF25Nx10D	5-25	1	250CF	kgf-cm	50-250	250CF-A	lbf-in	10	320	10D	0.4	
CF50Nx12D	10-50		500CF	kgf-cm	100-500	500CF-A	lbf-in	20	380	12D	0.6	
CF100Nx15D	10-100		1000CF	kgf-cm	100-1000	1000CF-A	lbf-in	6-70	2	435	15D	1.0
CF150Nx19D	20-150		1500CF	kgf-cm	200-1500	1500CF-A	lbf-in	15-110		480	19D	1.3
CF230Nx22D	30-230		2300CF	kgf-cm	3-23	2300CF-A	lbf-in	20-160	5	530	22D	1.6
CF420Nx22D	70-420	10	4200CF	kgf-cm	7-42	4200CF-A	lbf-in	30-300		725		3.1
CF850Nx32D	100-850	20	8500CF	kgf-cm	42-85	8500CF-A	lbf-in	60-600	20	1260	32D	7.1

- Note
1. Overall length does not include interchangeable head.
 2. Interchangeable heads are optional.

QF/QFR

Ratchet Head Beam Type Torque Wrench

Direction



QF120N

Inspection Beam Ratchet Head Direct Reading RoHS

- Fixed ratchet head flat beam style
- Ideal for working in narrow spaces

Accuracy ±3%

S.I. Model	Torque Range [N-m]		Metric Model	Torque Range [kgf-cm/kgf-m]		American Model	Torque Range [lbf-in/lbf-ft]		Overall Length [mm]	Square Drive [mm]	Weight [kg]
	Min.-Max.	Grad.		Min.-Max.	Grad.		Min.-Max.	Grad.			
QF60N	6-60	1	600QF	kgf-cm	60-600	600QF-A	lbf-in	10	455	9.5	0.8
QF120N	10-120	2	1200QF	kgf-cm	100-1200	1200QF-A	lbf-in	6-86	2	515	1.2
QF220N	30-220	5	2200QF	kgf-cm	300-2200	2200QF-A	lbf-in	25-160		580	1.8
QF320N	40-320		3200QF	kgf-cm	6-32	3200QF-A	lbf-in	40-230	5	655	2.6
QF420N	70-420		4200QF	kgf-cm	7-42	4200QF-A	lbf-in	30-300		825	3.4
QF560N	100-560		5600QF	kgf-cm	10-56	5600QF-A	lbf-in	50-400	1	950	4.3
QF700N	100-700		7000QF	kgf-cm	10-70	7000QF-A	lbf-in	50-500	10	1170	6.5
QF850N	100-850		8500QF	kgf-cm	10-85	8500QF-A	lbf-in	60-600		1400	8.5
QFR1050N	100-1050	20	10500QFR	kgf-cm	10-105	10500QFR-A	lbf-in	100-750	20	845	8.5
QFR1400N	200-1400		14000QFR	kgf-cm	20-140	14000QFR-A	lbf-in	100-1000		992	12.5
QFR2100N	300-2100		21000QFR	kgf-cm	30-210	21000QFR-A	lbf-in	200-1500		1158	15.5
QFR2800N	300-2800		28000QFR	kgf-cm	30-280	28000QFR-A	lbf-in	200-2000		1305	21
QFR4200N	400-4200		42000QFR	kgf-cm	40-420	42000QFR-A	lbf-in	300-3000	50	1473	38.1
QFR6000N	600-6000	100	60000QFR	kgf-cm	60-600	60000QFR-A	lbf-in	400-4300		1624	32

- Note
1. QFR models are supplied upon request.
 2. QFR models require winch or mechanical loading device.
 3. For models having over 25.4mm square drive, use with a through-hole socket.