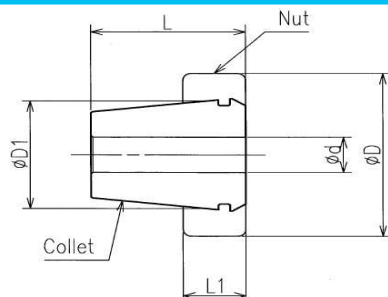


Dimensions for Collet and Nut



FDC Collet and Nut (HDC-A, HDZ, SDM, KH-E)

Model	d	D1	L	Nut	Code	D	L1	Spanner
FDC-07	0.5-7.0	10.9	18.0	HDP-07A	007003001407	23	11.5	S-0
FDC-09	2.5-9.0	13.57	23.0	HDP-09	254400000009	26	13.0	S-1L
FDC-12	2.5-12.0	18.42	27.5	HDP-12	254400000012	32	14.0	S-3L
FDC-16	3.5-16.0	22.2	32.5	HDP-16	254400000016	36	14.0	S-4L
FDC-22	3.5-22.0	30.6	39.5	HDP-22	254400000022	46	16.0	S-5L

FDC Collet and Nut (GDC-A, GDZ)

Model	d	D1	L	Nut	Code	D	L1	Spanner
FDC-07	0.5-7.0	10.9	18.0	HDP-07A	007003001407	23	11.5	S-0
FDC-09	2.5-9.0	13.57	23.0	GDP-09	244400000009	29	24.0	S-0
FDC-12	2.5-12.0	18.42	27.5	GDP-12	244400000012	34	25.0	FK-0034
FDC-16	3.5-16.0	22.2	32.5	GDP-16	244400000016	38	25.0	FK-0034
FDC-22	3.5-22.0	30.6	39.5	GDP-22	244400000022	49	32.0	FK-0045

ER Collet and Nut (ERC, ERC-T, ERZ)

Model	d	D1	L	Nut	Code	D	L1	Spanner
ER8	0.5-5.0	8.4	13.6	ERP-8	255400000008	12	12.8	S-8E
ER11	0.5-7.0	10.3	18.0	ERP-11S	255400000010	16	13.5	S-11E
ER16	0.5-10.0	17.2	27	ERP-16	255400000016	32	20.7	FK-0034
ER20	0.5-13.0	21.2	31	ERP-20	255400000020	35	21.1	FK-0034
ER25	0.5-16.0	26.2	35	ERP-25	255400000025	42	23.4	HS-1-16
ER32	2.5-20.0	33.2	40	ERP-32	255400000032	50	26.3	HS-2-20
ER40	3.0-26.0	41.2	46	ERP-40	255400000040	63	29.7	HS-2.5-25
ER50	10.0-34.0	52.2	60	ERP-50	255400000050	78		HS-4-42

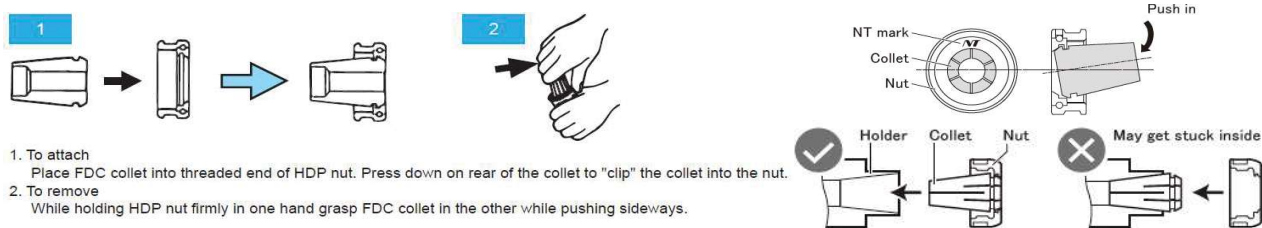
FSC Collet and Nut (STM)

Model	d	D1	L	Nut	Code	D	L1	Spanner
FDC-07	0.5-7.0	10.9	18.0	HDP-07A	007003001407	23	11.5	S-0
FSC-09	5.0-8.5	14.2	17.0	HTP-09	131400000009	26	13.0	S-1L
FSC-16	9.0-14.0	22.8	21.5	HTP-16	131400000016	36	14.0	S-4L
FSC-22	15.0-23.0	31.2	24	HTP-22	131400000022	46	16.0	S-5L

ER Collet for Tap and Nut (SMH)

Model	d	D1	L	Nut	Code	D	L1	Spanner
ER8	1.2-4.0	8.5	13.5	ERP-8T	245100000807	12	20.0	S-8E
ER16GH	4.0-9.0	16	27.5	ERP-16T	245100001607	32	17.2	FKT-32L
ER32GH	7.0-16.0	32	40	ERP-32T	245100003207	50	23.0	FKT-50L

Collet insertion and removal

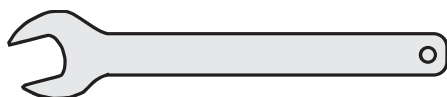


SH / CL

Spanner, Spanner Head, Torque Wrench

Spanners

Type 1



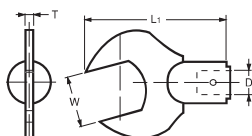
Type 2



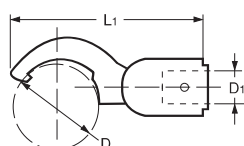
Spanner Model	Code	Spanner type	Spanner-head Model	SH Type	Torque Wrench	Torque	Collet Series	Cap
S-8E	080300000007	1	SH-11-10	1	CL25N5x10D	5-7Nm	ER8	ERP-8, ERP-8T
S-11E	080300000008	1	SH-14-10	1	CL25N5x10D	15-20Nm	FDC-07	ERP-11S
S-0	080300000000	2	SH-23-10	2	CL25N5x10D	10-15Nm	FDC-07, ER11	HDP-07A
S-1L	080300000011	1	SH-1A-15	1	CL50Nx15D	30-35Nm	FDC-09, EDC-19	HDP-09, KDP-1916
S-3L	080300000013	1	SH-3A-15	1	CL100Nx15D	35-40Nm	FDC-12, EDC-24	HDP-12, KDP-2422
S-4L	080300000014	1	SH-4A-15	1	CL100Nx15D	40-45Nm	FDC-16, EDC-28	HDP-16, KDP-2825
S-5L	080300000015	1	SH-5A-15	1	CL100Nx15D	55-60Nm	FDC-22, EDC-36	HDP-22, KDP-3632
S-6	080300000006	2	SH-6A-19	2	CL200Nx19D	80-90Nm	FDC-32	HDP-32
FK-0025	244500000025	2	SH-25-15	2	CL50Nx15D	30-35Nm	FDC-09	GDP-09
FK-0034	244500000034	2	SH-34-15	2	CL100Nx15D	35-40Nm 30-35Nm 40-50Nm 40-45Nm	FDC-12 ER16 ER20 FDC-16	GDP-12 ERP-16, ERP16T ERP20 GDP-16
FK-0045	244500000045	2	SH-45-15	2	CL100Nx15D	55-60Nm	FDC-22	GDP-22
HS-1-16	071100001016	2	SH-HS-1-16	2	CL100Nx15D	55-65Nm	ER25	ERP-25
HS-2-20	071100002020	2	SH-HS-2-20	2	CL100Nx15D	65-70Nm	ER32	ERP-32
FK-0052	819800003908	2	SH-52-19	2	CL200Nx19D	100-105Nm	ER32	ERP-32T
HS-2.5-25	071100002525	2	—	—	—	75-80Nm	ER40	ERP-40
HS-4-42	071100004042	2	—	—	—	130-140Nm	ER50	ERP-50

Spanner heads

Type1

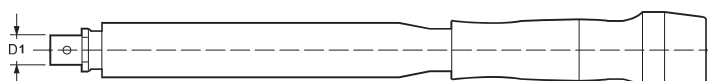


Type2



Code	Model	W	T	D	D1	L1
315000001110	SH-11-10	11	6.5	—	10	51
315000001410	SH-14-10	14	6.5	—	10	52
315000002310	SH-23-10	—	—	23	10	60
315000000115	SH-1A-15	24	4.5	—	15	78
315000000315	SH-3A-15	30	4.5	—	15	83
315000000415	SH-4A-15	33	4.5	—	15	84
315000000515	SH-5A-15	42	5.5	—	15	89
315000000619	SH-6A-19	—	—	66	19	118
315000002515	SH-25-15	—	—	29	15	77
315000003415	SH-34-15	—	—	38	15	82
315000004515	SH-45-15	—	—	49	15	86
315000005219	SH-52-19	—	—	55	19	108
080700185000	SH-HS-1-16	—	—	45	15	233
080700186000	SH-HS-2-20	—	—	52	15	122

Torque wrench



Code	Model	Torque range	D1
3154 01010000	CL 25N5 × 10D	5 ~ 25Nm	10
3154 00020000	CL 50N × 15D	10 ~ 50Nm	15
3154 00030000	CL 100N × 15D	20 ~ 100Nm	15
3154 00040000	CL 200N × 19D	40 ~ 200Nm	19