

Clamping Nut

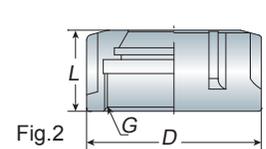
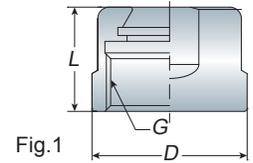
螺帽

ER

BT / NT
series

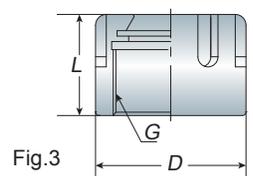
Standard Nut 普通螺帽	Model No.	FIG.	D	L	Nm	G	Collet Type	Weight (kg)
	CN11	1	19	13	30	M14x0.75P	ER11	0.01
	CN16	1	28	18.5	70	M22x1.5P	ER16	0.04
	CN20	1	34	21	100	M25x1.5P	ER20	0.07
	CN25	2	42	21.5	130	M32x1.5P	ER25	0.11
	CN32	2	50	24	170	M40x1.5P	ER32	0.15
	CN40	2	63	26	220	M50x1.5P	ER40	0.30
	CN50	2	78	35		M64x2.0P	ER50	0.50

Unit: mm



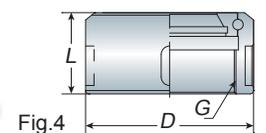
M Type Nut M 型螺帽	Model No.	FIG.	D	L	Nm	G	Collet Type	Weight (kg)
	CNM08	3	12	10.8	10	M10x0.75P	ER08	0.01
	CNM11	3	16	12	30	M13x0.75P	ER11	0.01
	CNM16	3	22	17	70	M19x1.0P	ER16	0.02
	CNM20	3	28	19.2	100	M24x1.0P	ER20	0.03

Unit: mm



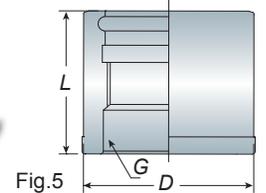
Power Ball Bearing Nut 強力型鋼珠螺帽	Model No.	FIG.	D	L	Nm	G	Collet Type	Weight (kg)
	CN16-B	4	30	19	70	M22x1.5P	ER16	0.07
	CN20-B	4	35	21	100	M25x1.5P	ER20	0.09
	CN25-B	4	43	22	130	M32x1.5P	ER25	0.13
	CN32-B	4	51	24	170	M40x1.5P	ER32	0.16
	CN40-B	4	63	28	220	M50x1.5P	ER40	0.31

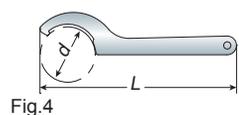
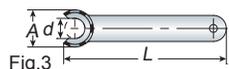
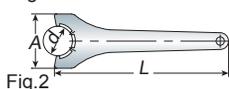
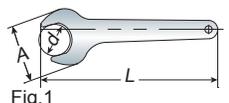
Unit: mm



High Speed Bearing Nut 高速鋼珠螺帽	Model No.	FIG.	D	L	Nm	G	Collet Type	Weight (kg)
	CN-GER16	5	30	19	70	M22x1.5P	ER16	0.08
	CN-GER20	5	35	21	100	M25x1.5P	ER20	0.10
	CN-GER25	5	40	22	130	M32x1.5P	ER25	0.13
	CN-GER32	5	50	25	170	M40x1.5P	ER32	0.15

Unit: mm





Standard Wrench 普通扳手	Model No.	FIG.	A	d	L	Suit For	Weight (kg)
	WER11	1	29	17	140	CN11	0.08
WER16	1	45	25	142	CN16	0.12	
WER20	1	54	30	162	CN20	0.17	
WER25	2	65	37	206	CN25	0.22	
WER32	2	75	46.5	253	CN32	0.30	
WER40	2	90	58	289	CN40	0.36	
WER50	2	110	-	350	CN50	0.70	

M Type Wrench M 型扳手	Model No.	FIG.	A	d	L	Suit For	Weight (kg)
	WM08	3	13	-	75	CNM08	0.02
WM11	3	17	8.5	95	CNM11	0.03	
WM16	3	22.5	12.5	117	CNM16	0.05	
WM20	3	28.5	15.5	127	CNM20	0.07	

C Type Wrench (for power ball bearing nut) C 型扳手 (強力型鋼珠螺帽用)	Model No.	FIG.	d	L	Suit For	Weight (kg)
	WER16B	4	32	205	CN16-B	0.16
WER20B	4	36	220	CN20-B	0.18	
WER25B	4	43	235	CN25-B	0.21	
WER32B	4	51	255	CN32-B	0.22	
WER40B	4	63	260	CN40-B	0.25	

Bearing Wrench (for high speed bearing nut) 軸承扳手 (高速鋼珠螺帽用)	Model No.	FIG.	d	L	Suit For	Weight (kg)
	WER16G	5	30	-	CN16-G	0.60
WER20G	5	35	-	CN20-G	0.65	
WER25G	5	40	-	CN25-G	0.80	
WER32G	5	50	-	CN32-G	0.83	

Unit: mm

Torque Control Type

扭力型

Spigot Interchangeable Digital Torque Wrench

數位顯示扭力扳手

Model No.	d	L	Nm	lbf-ft	lbf-in	Weight (kg)
WDG-252	16	373	10~135	7.4~99.6	89~1195	0.80
WDG-253	16	548	20~200	14.8~147	178~1780	1.05
WDG-254	16	748	34~340	25~250.9	301~3010	1.35

Unit: mm

Wrench Spigot for WDG Torque Wrench

扭力扳手轉接頭

Model No.	Type	d	D	Suit For	Weight(kg)
ER16TC	ER16	25	16	CN16	0.20
ER20TC	ER20	30	16	CN20	0.30
ER25TC	ER25	37	16	CN25	0.14
ER32TC	ER32	46.5	16	CN32	0.15
ER40TC	ER40	58	16	CN40	0.20

Unit: mm

Torque Wrench 扭力扳手

Model No.	d	L	Nm	lbf-ft	lbf-in	Weight (kg)
OP-1710AKB	16	405	20~100	14.8~74	178~890	1.15
OP-1718AK	16	500	40~200	29.6~148	356~1780	1.38
OP-1720AK	16	575	60~320	44.4~236.8	534~2848	1.50

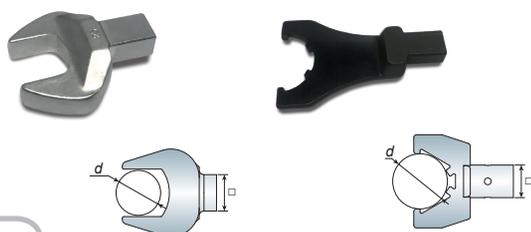
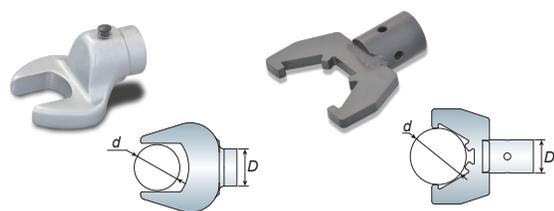
Unit: mm

Wrench Spigot for OP Torque Wrench

扭力扳手轉接頭

Model No.	Type	d	□	Suit For	Weight(kg)
OP-ER11TC	ER11	17	14 x 18	CN11	0.20
OP-ER16TC	ER16	25	14 x 18	CN16	0.20
OP-ER20TC	ER20	30	14 x 18	CN20	0.30
OP-ER25TC	ER25	37	14 x 18	CN25	0.14
OP-ER32TC	ER32	46.5	14 x 18	CN32	0.15
OP-ER40TC	ER40	58	14 x 18	CN40	0.20

Unit: mm



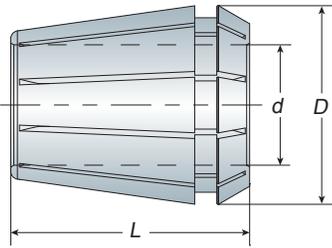
Spring Collet

彈性筒夾

ER

BT / NT series

- DIN6499 ISO15488 Collet must be assembled into the clamping nut before inserting into the chuck



Metric Size

Model No.	D	L	d	Weight (kg)
ER08	8.5	13.5	1,1.5,2,2.5,3,3.5,4,4.5,5	0.01
ER11	11.5	18	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7	0.01
ER16	17	27	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10	0.03
ER20	21	31	1,1.5,2,2.5,3,3.5,4,4.5,5,5.5,6,6.5,7,7.5,8,8.5,9,9.5,10,10.5,11,11.5,12,12.5,13	0.04
ER25	26	35	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16	0.07
ER32	33	40	2,3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20	0.15
ER40	41	46	3,4,5,6,7,8,9,10,11,12,13,14,15,16,17,18,19,20,21,22,23,24,25,26	0.27
ER50	52	60	12,14,16,18,20,22,24,26,28,30,32,34	0.45

Unit: mm

Inch Size

Model No.	D	L	d	Weight (kg)
ER11	11.5	18	1/8,5/32,3/16,7/32,1/4	0.01
ER16	17	27	1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8	0.03
ER20	21	31	1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,13/32,7/16,1/2	0.04
ER25	26	35	1/8,5/32,3/16,7/32,1/4,9/32,5/16,11/32,3/8,7/16,15/32,1/2,9/16,19/32,5/8	0.07
ER32	33	40	1/8,5/32,3/16,7/32,1/4,5/16,11/32,3/8,7/16,15/32,1/2,17/32,9/16,5/8,21/32,11/16,3/4,25/32	0.15
ER40	41	46	1/8,5/32,3/16,1/4,9/32,5/16,3/8,7/16,15/32,1/2,9/16,5/8,19/32,11/16,23/32,3/4,25/32,13/16,27/32,7/8,15/16,31/32,1	0.27

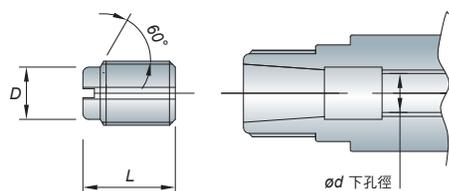
Unit: mm

ER08		ER11		ER16		ER20		ER25		ER32		ER40		ER50	
No.	Range	No.	Range	No.	Range	No.	Range	No.	Range	No.	Range	No.	Range	No.	Range
ER08-01	1.0	ER11-01	1.0	ER16-01	1.0~0.5	ER20-01	1.0~0.5	ER25-02	2.0~1.0	ER32-02	2.0~1.0	ER40-03	3.0~2.0	ER50-12	12~10
ER08-1.5	1.5	ER11-1.5	1.5	ER16-1.5	1.5~1.0	ER20-1.5	1.5~1.0	ER25-03	3.0~2.0	ER32-03	3.0~2.0	ER40-04	4.0~3.0	ER50-14	14~12
ER08-02	2.0~1.5	ER11-02	2.0~1.5	ER16-02	2.0~1.0	ER20-02	2.0~1.0	ER25-04	4.0~3.0	ER32-04	4.0~3.0	ER40-05	5.0~4.0	ER50-16	16~14
ER08-2.5	2.5~2.0	ER11-2.5	2.5~2.0	ER16-2.5	2.5~2.0	ER20-2.5	2.5~2.0	ER25-05	5.0~4.0	ER32-05	5.0~4.0	ER40-06	6.0~5.0	ER50-18	18~16
ER08-03	3.0~2.5	ER11-03	3.0~2.5	ER16-03	3.0~2.0	ER20-03	3.0~2.0	ER25-06	6.0~5.0	ER32-06	6.0~5.0	ER40-07	7.0~6.0	ER50-20	20~18
ER08-3.5	3.5~3.0	ER11-3.5	3.5~3.0	ER16-3.5	3.5~3.0	ER20-3.5	3.5~3.0	ER25-07	7.0~6.0	ER32-07	7.0~6.0	ER40-08	8.0~7.0	ER50-22	22~20
ER08-04	4.0~3.5	ER11-04	4.0~3.5	ER16-04	4.0~3.0	ER20-04	4.0~3.0	ER25-08	8.0~7.0	ER32-08	8.0~7.0	ER40-09	9.0~8.0	ER50-24	24~22
ER08-4.5	4.5~4.0	ER11-4.5	4.5~4.0	ER16-4.5	4.5~4.0	ER20-4.5	4.5~4.0	ER25-09	9.0~8.0	ER32-09	9.0~8.0	ER40-10	10~9.0	ER50-26	26~24
ER08-05	5.0~4.5	ER11-05	5.0~4.5	ER16-05	5.0~4.0	ER20-05	5.0~4.0	ER25-10	10~9.0	ER32-10	10~9.0	ER40-11	11~10	ER50-28	28~26
		ER11-5.5	5.5~5.0	ER16-5.5	5.5~5.0	ER20-5.5	5.5~5.0	ER25-11	11~10	ER32-11	11~10	ER40-12	12~11	ER50-30	30~28
		ER11-06	6.0~5.5	ER16-06	6.0~5.0	ER20-06	6.0~5.0	ER25-12	12~11	ER32-12	12~11	ER40-13	13~12	ER50-32	32~30
		ER11-6.5	6.5~6.0	ER16-6.5	6.5~6.0	ER20-6.5	6.5~6.0	ER25-13	13~12	ER32-13	13~12	ER40-14	14~13	ER50-34	34~32
		ER11-07	7.0~6.5	ER16-07	7.0~6.0	ER20-07	7.0~6.0	ER25-14	14~13	ER32-14	14~13	ER40-15	15~14		
				ER16-7.5	7.5~7.0	ER20-7.5	7.5~7.0	ER25-15	15~14	ER32-15	15~14	ER40-16	16~15		
				ER16-08	8.0~7.0	ER20-08	8.0~7.0	ER25-16	16~15	ER32-16	16~15	ER40-17	17~16		
				ER16-8.5	8.5~8.0	ER20-8.5	8.5~8.0			ER32-17	17~16	ER40-18	18~17		
				ER16-09	9.0~8.0	ER20-09	9.0~8.0			ER32-18	18~17	ER40-19	19~18		
				ER16-9.5	9.5~9.0	ER20-9.5	9.5~9.0			ER32-19	19~18	ER40-20	20~19		
				ER16-10	10~9.0	ER20-10	10~9.0			ER32-20	20~19	ER40-21	21~20		
						ER20-10.5	10.5~10					ER40-22	22~21		
						ER20-11	11~10					ER40-23	23~22		
						ER20-11.5	11.5~11					ER40-24	24~23		
						ER20-12	12~11					ER40-25	25~24		
						ER20-12.5	12.5~12					ER40-26	26~25		
						ER20-13	13~12								

- ER08 ~ ER20 建議夾持範圍皆為 0.5mm (Suggested clamping range should be 0.5mm)

Stop Screw

止付螺絲



Model No.	Suit for	D	L	d (下孔徑)
M6xP1.0x10	ER08	6	10	5.1
M8xP1.0x15	ER11 / ASK06 / AVC06	6	15	7.1
M11xP1.0x16	ER16 / ASK10 / AVC10	9	16	10.2
M14xP1.0x20	ER20 / AVC12	11	20	13.1
M18xP1.5x22	ER25 / ASK16	14	22	16.6
M22xP1.5x24	ASK20	19	24	20.6
M24xP1.5x25	ER32	20	25	22.6
M28xP1.5x25	ER40 / ASK25	25	25	26.6
M16xP2.0x23	ASK13	23	23	14

Unit: mm

Torque wrench

扭力扳手



Model No.	Nm	in-lb	Magnetic Bit Holder 磁性扳手本體	Torque Adaptor 扭力轉接頭	Star Bits 星型扳手頭
TX6-0.6Nm	0.6	5.3	HW410484DG	HW-DG/0.6	SB-T6
TX7-0.9Nm	0.9	8.0	HW410484DG	HW-DG/0.9	SB-T7
TX8-1.2Nm	1.2	10.6	HW410484DG	HW-DG/1.2	SB-T8
TX9-1.5Nm	1.5	13.2	HW410484DG	HW-DG/1.5	SB-T9
TX10-2.0Nm	2.0	17.7	HW410484DG	HW-DG/2.0	SB-T10
TX15-3.0Nm	3.0	26.6	HW410484DG	HW-DG/3.0	SB-T15
TX20-5.0Nm	5.0	44.25	HW410484DG	HW-DG/5.0	SB-T20

Spindle Force Dynamometer

主軸拉力計 - 油壓式

- Hydraulic mechanical structure, high stability
- When ordering, please specify the degree of pull suddd
- Force: 1 kg/cm² = 10kg = 100 N
- Using the German WIKA oil pressure gauge
- 油壓機械式結構，高穩定性
- 訂購時請確認拉頭度數
- 拉力計壓力設計：1 kg/cm² = 10kg = 100 N
- 使用德國 WIKA 油壓表



Model No.	Range
BT30 CFG	0~150kg/cm ²
BT40 CFG	0~150kg/cm ²
BT50 CFG	0~350kg/cm ²