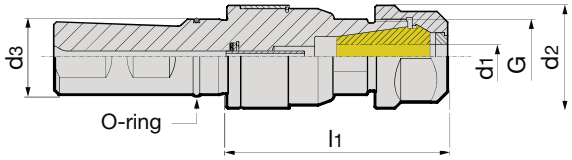
Synchro tapping chucks with straight shank

Product information
- compensate synchronisation errors
- minimal length compensation ± 0,15 mm in tension and compression direction balances very small pitch differences between synchro spindle and tap, which can cause high frictional forces on the thread flanks
- length-setting screw allows 2 to 3 mm readjustment
- suitable for internal cooling
- max. coolant pressure up to 50 bar
- combination shank similar to DIN 1835 for side lock holders

Scope of delivery
- incl. sealed IC/ER clamping nut Series no. 4306 (*see torque)
- incl. adjustment key for adjustment screws

- order adjustment screws „plan“ Series no. 4364, tapping collet, Series no. 4308, sealing washer, Series no. 4335 and clamping key, Series no. 4913 separately



Series no. 4326

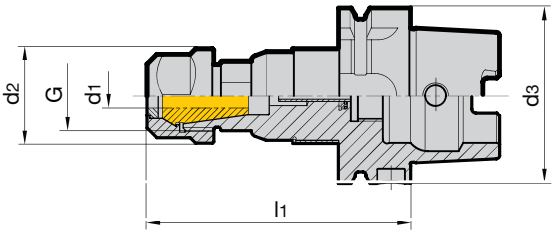
d_3 ~DIN 1835 mm	nom. size	for thread	d_1 mm	d_2 mm	l_1 mm	torque* Nm	G	kg	Code no.	EDP Number
25	ER20	M4-M14	4-11.0	34	73	35	M25x1.5	0.50	20.025	**9043260200250**
25	ER32	M4-M30	4-20.0	50	87.5	136	M40x1.5	1.30	32.025	**9043260320250**

HSK-A synchro tapping chucks

Product information
- compensate synchronisation errors
- guarantee high thread quality and optimal tool life with conventional taps
- minimal length compensation ± 0,15 mm in tension and compression direction between synchronous spindle and tap reduces excessive thread flank friction
- reduces a possible increase in axial forces during the cutting cycle to a minimum
- length-setting screw allows 2 to 3 mm readjustment
- suitable for internal cooling
- max. coolant pressure up to 50 bar
- HSK-A to ISO 12164-1/DIN 69893-1

Scope of delivery
- incl. sealed IC/ER clamping nut Series no. 4306 (*see torque)
- incl. adjustment key for adjustment screws

- order adjustment screws „plan“ Series no. 4364, tapping collet, Series no. 4308, sealing washer, Series no. 4325 and clamping key, Series no. 4913 separately
- for conventional cooling order coolant supply set Series no. 4949 separately



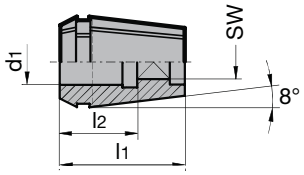
Series no. 4327

d_3 ~DIN 1835 mm	nom. size	for thread	d_1 mm	d_2 mm	l_1 mm	torque* Nm	G	kg	Code no.	EDP Number
63	ER20	M4-M14	4.5-11.2	34	95.5	35	M25x1.5	1.00	20.063	**9043270200630**
63	ER20	M4-M14	4.5-11.2	34	160.0	35	M25x1.5	1.50	20.163	**9043270201630**
63	ER32	M4-M30	4.5-18.0	50	109.0	136	M40x1.5	1.70	32.063	**9043270320630**
100	ER20	M4-M14	4.5-11.2	34	102.0	35	M25x1.5	2.50	20.100	**9043270201000**
100	ER32	M4-M30	4.5-18.0	50	115.5	136	M40x1.5	2.70	32.100	**9043270321000**

Product information

- for clamping taps with square shank in synchro tapping chucks or collet holders
- smaller Ø4mm are clamped with collet, Series no. 4307 without sq. drive
- tightening torque see clamping nuts Series no. 4306

Clamping range:
ER16: Ø 4.5 - Ø 8.0
ER20: Ø 4.0 - Ø 11.0
ER25: Ø 4.5 - Ø 12.0
ER32: Ø 4.0 - Ø 20.0
ER40: Ø 7.0 - Ø 22.0



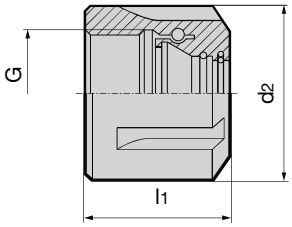
					Series no.	4308
nominal size	for shank Ø d_1 mm	square SW	l_1 mm	l_2 mm	Code no.	**EDP Number**
ER16	4.5	3.4	27.5	15	4.516	**9043080045160**
ER16	5.5	4.3	27.5	18	5.516	**9043080055160**
ER16	6.0	4.9	27.5	18	6.016	**9043080060160**
ER16	7.0	5.5	27.5	18	7.016	**9043080070160**
ER16	8.0	6.2/6.3	27.5	22	8.016	**9043080080160**
ER20	4.0	3.2	31.5	15	4.020	**9043080040200**
ER20	4.5	3.4	31.5	15	4.520	**9043080045200**
ER20	5.5	4.3	31.5	18	5.520	**9043080055200**
ER20	6.0	4.9	31.5	18	6.020	**9043080060200**
ER20	7.0	5.5	31.5	18	7.020	**9043080070200**
ER20	8.0	6.2/6.3	31.5	22	8.020	**9043080080200**
ER20	9.0	7.0/7.1	31.5	22	9.020	**9043080090200**
ER20	10.0	8.0	31.5	25	10.020	**9043080100200**
ER20	11.0	9.0	31.5	25	11.020	**9043080110200**
ER25	4.5	3.4	34.0	15	4.525	**9043080045250**
ER25	5.5	4.3	34.0	18	5.525	**9043080055250**
ER25	6.0	4.9	34.0	18	6.025	**9043080060250**
ER25	7.0	5.5	34.0	18	7.025	**9043080070250**
ER25	8.0	6.2/6.3	34.0	22	8.025	**9043080080250**
ER25	9.0	7.0/7.1	34.0	22	9.025	**9043080090250**
ER25	10.0	8.0	34.0	25	10.025	**9043080100250**
ER25	11.0	9.0	34.0	25	11.025	**9043080110250**
ER25	12.0	9.0	34.0	25	12.025	**9043080120250**
ER32	4.0	3.15/3.2	40.0	15	4.032	**9043080040320**
ER32	4.5	3.4	40.0	15	4.532	**9043080045320**
ER32	5.5	4.3	40.0	18	5.532	**9043080055320**
ER32	6.0	4.9	40.0	18	6.032	**9043080060320**
ER32	7.0	5.5	40.0	18	7.032	**9043080070320**
ER32	8.0	6.2/6.3	40.0	22	8.032	**9043080080320**
ER32	9.0	7.0/7.1	40.0	22	9.032	**9043080090320**
ER32	10.0	8.0	40.0	25	10.032	**9043080100320**
ER32	11.0	9.0	40.0	25	11.032	**9043080110320**
ER32	12.0	9.0	40.0	25	12.032	**9043080120320**
ER32	14.0	11.0/11.2	40.0	25	14.032	**9043080140320**
ER32	16.0	12.0/12.5	40.0	25	16.032	**9043080160320**
ER32	18.0	14.5	40.0	25	18.032	**9043080180320**
ER32	20.0	16.0	40.0	28	20.032	**9043080200320**
ER40	7.0	5.5	46.0	18	7.040	**9043080070400**
ER40	8.0	6.2/6.3	46.0	22	8.040	**9043080080400**
ER40	9.0	7.0/7.1	46.0	22	9.040	**9043080090400**
ER40	10.0	8.0	46.0	25	10.040	**9043080100400**
ER40	11.0	9.0	46.0	25	11.040	**9043080110400**
ER40	12.0	9.0	46.0	25	12.040	**9043080120400**
ER40	14.0	11.0/11.2	46.0	25	14.040	**9043080140400**
ER40	16.0	12.0/12.5	46.0	25	16.040	**9043080160400**
ER40	18.0	14.5	46.0	25	18.040	**9043080180400**
ER40	20.0	16.0	46.0	28	20.040	**9043080200400**
ER40	22.0	18.0	46.0	28	22.040	**9043080220400**

Product information

- for collets DIN ISO 15488
- for application with internal cooling IC/ER for sealing washer
- for increased clamping version ER or IC/ER with glide ring
- suitable for up to 150 bar coolant pressure

Scope of delivery

- version for internal cooling IC/ER: order sealing washer article no. 4335 separately
- IC/ER versions for internal cooling



Series no. 4306

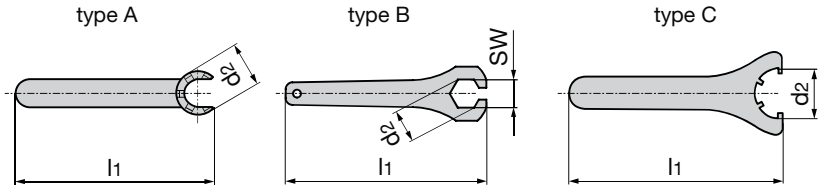
for sealing washer no. 4335	with glide ring	nom. size	d_2 mm	l_1 mm	G	max. torque Nm	EDP Number
–	–	ER16 mini	22	18.0	M19x1.0	55	**9043060162000**
–	–	ER20 mini	28	19.0	M24x1.0	75	**9043060202000**
–	–	ER25 mini	35	20.0	M30x1.0	100	**9043060252000**
–	–	ER11	19	11.3	M14x0.75	25	**9043060110000**
–	–	ER16	28	17.5	M22x1.5	55	**9043060160000**
–	–	ER20	34	19.0	M25x1.5	75	**9043060200000**
–	–	ER25	42	20.0	M32x1.5	100	**9043060250000**
–	–	ER32	50	22.5	M40x1.5	140	**9043060320000**
–	–	ER40	63	25.5	M50x1.5	200	**9043060400000**
x	–	IC/ER16 mini	22	22.0	M19x1.0	55	**9043060163000**
x	–	IC/ER20 mini	28	24.0	M24x1.0	75	**9043060203000**
x	–	IC/ER25 mini	35	25.0	M30x1.0	100	**9043060253000**
x	–	IC/ER16	28	22.5	M22x1.5	55	**9043060166000**
x	–	IC/ER20	34	24.0	M25x1.5	75	**9043060206000**
x	–	IC/ER25	42	25.0	M32x1.5	100	**9043060256000**
x	–	IC/ER32	50	27.5	M40x1.5	140	**9043060326000**
x	–	IC/ER40	63	30.5	M50x1.5	200	**9043060406000**
–	x	ER16	28	20.3	M22x1.5	55	**9043060164000**
–	x	ER20	34	21.8	M25x1.5	75	**9043060204000**
–	x	ER25	42	22.4	M32x1.5	100	**9043060254000**
–	x	ER32	50	25.0	M40x1.5	140	**9043060324000**
–	x	ER40	63	28.3	M50x1.5	200	**9043060404000**
x	x	IC/ER16	28	22.7	M22x1.5	55	**9043060165000**
x	x	IC/ER20	34	24.2	M25x1.5	75	**9043060205000**
x	x	IC/ER25	42	25.2	M32x1.5	100	**9043060255000**
x	x	IC/ER32	50	27.4	M40x1.5	140	**9043060325000**
x	x	IC/ER40	63	30.7	M50x1.5	200	**9043060405000**

					Series no.	4335
nominal size	d_1 mm	Sealing Range	d_2 mm	B mm	Code no.	EDP Number
ER20	13	12.5 to 13	16	4	13.020	9043350130200
ER25	13	12.5 to 13	21	4	13.025	9043350130250
ER32	13	12.5 to 13	27	4	13.032	9043350130320
ER40	13	12.5 to 13	33.5	4	13.040	9043350130400
ER25	13.5	13 to 13.5	21	4	13.525	9043350135250
ER32	13.5	13 to 13.5	27	4	13.532	9043350135320
ER40	13.5	13 to 13.5	33.5	4	13.540	9043350135400
ER25	14	13.5 to 14	21	4	14.025	9043350140250
ER32	14	13.5 to 14	27	4	14.032	9043350140320
ER40	14	13.5 to 14	33.5	4	14.040	9043350140400
ER25	14.5	14 to 14.5	21	4	14.525	9043350145250
ER32	14.5	14 to 14.5	27	4	14.532	9043350145320
ER40	14.5	14 to 14.5	33.5	4	14.540	9043350145400
ER25	15	14.5 to 15	21	4	15.025	9043350150250
ER32	15	14.5 to 15	27	4	15.032	9043350150320
ER40	15	14.5 to 15	33.5	4	15.040	9043350150400
ER25	15.5	15 to 15.5	21	4	15.525	9043350155250
ER32	15.5	15 to 15.5	27	4	15.532	9043350155320
ER40	15.5	15 to 15.5	33.5	4	15.540	9043350155400
ER25	16	15.5 to 16	21	4	16.025	9043350160250
ER32	16	15.5 to 16	27	4	16.032	9043350160320
ER40	16	15.5 to 16	33.5	4	16.040	9043350160400
ER32	16.5	16 to 16.5	27	4	16.532	9043350165320
ER40	16.5	16 to 16.5	33.5	4	16.540	9043350165400
ER32	17	16.5 to 17	27	4	17.032	9043350170320
ER40	17	16.5 to 17	33.5	4	17.040	9043350170400
ER32	17.5	17 to 17.5	27	4	17.532	9043350175320
ER40	17.5	17 to 17.5	33.5	4	17.540	9043350175400
ER32	18	17.5 to 18	27	4	18.032	9043350180320
ER40	18	17.5 to 18	33.5	4	18.040	9043350180400
ER32	18.5	18 to 18.5	27	4	18.532	9043350185320
ER40	18.5	18 to 18.5	33.5	4	18.540	9043350185400
ER32	19	18.5 to 19	27	4	19.032	9043350190320
ER40	19	18.5 to 19	33.5	4	19.040	9043350190400
ER32	19.5	19 to 19.5	27	4	19.532	9043350195320
ER40	19.5	19 to 19.5	33.5	4	19.540	9043350195400
ER32	20	19.5 to 20	27	4	20.032	9043350200320
ER40	20	19.5 to 20	33.5	4	20.040	9043350200400
ER40	20.5	20 to 20.5	33.5	4	20.540	9043350205400
ER40	21	20.5 to 21	33.5	4	21.040	9043350210400
ER40	21.5	21 to 21.5	33.5	4	21.540	9043350215400
ER40	22	21.5 to 22	33.5	4	22.040	9043350220400
ER40	22.5	22 to 22.5	33.5	4	22.540	9043350225400
ER40	23	22.5 to 23	33.5	4	23.040	9043350230400
ER40	23.5	23 to 23.5	33.5	4	23.540	9043350235400
ER40	24	23.5 to 24	33.5	4	24.040	9043350240400
ER40	24.5	24 to 24.5	33.5	4	24.540	9043350245400
ER40	25	24.5 to 25	33.5	4	25.040	9043350250400
ER40	25.5	25 to 25.5	33.5	4	25.540	9043350255400
ER40	26	25.5 to 26	33.5	4	26.040	9043350260400

Clamping key

Product information

- for clamping nuts
- Type A with special hook key for clamping nuts System DIN 6499 mini design
- Type B for clamping nuts with hexagonal design
- Type C for clamping nuts for external slots



Series no. **4913**

nom. size mm	type	l_1 mm	for ER d_2 mm	SW	EDP Number
ER16 mini	A	122	22	-	**9049130162000**
ER20 mini	A	139	28	-	**9049130202000**
ER25 mini	A	143	35	-	**9049130252000**
ER11	B	141	19	17	**9049130110000**
ER16	B	178	28	25	**9049130160000**
ER16	C	161	32	-	**9049130160320**
ER20	B	200	34	30	**9049130200000**
ER20	C	183	35	-	**9049130201000**
ER25	C	210	42	-	**9049130250000**
ER32	C	250	50	-	**9049130320000**
ER40	C	290	63	-	**9049130400000**

Configuration of synchro tapping chucks for conventional cooling