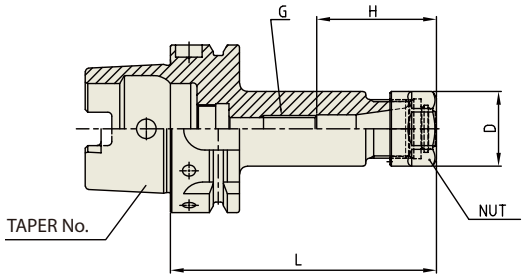
ER COLLET CHUCK

FRÄSERSPANNFUTTER - ER
MANDRIN À PINCES - ER
MANDRINO PORTA PINZE - ER
PORTAPINZAS - ER

DIN 69893/ ISO 12164-1-HSK FORM A



DIN 69893-HSK | 2.5G | 25,000 RPM | AD

ER Collet
Refer to page 103-109

ER nut, Sealing disk and Spanner
Refer to page 110-115

◆ Standard Type

Unit : mm

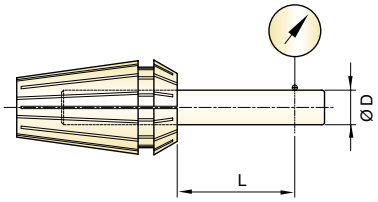
TAPER No.	MODEL No.	EDP No.	CLAMPING RANGE	L	D	G	H	NUT / COLLET	WEIGHT (kg)
50A	HSK50A-ER16-100	P2774938	0.5 - 10.0	100	28	M12	45	ER16	0.70
	HSK50A-ER20-100	P2774939	0.5 - 13.0	100	35	M12	50	ER20	0.90
	HSK50A-ER25-100	P2774940	1.0 - 16.0	100	42	M12	50	ER25	1.20
	HSK50A-ER32-100	P2774941	1.0 - 20.0	100	50	M12	47	ER32	1.50
63A	HSK63A-ER16-100	P2774901	0.5 - 10.0	100	28	M12	45	ER16	1.20
	HSK63A-ER20-100	P2774942	0.5 - 13.0	100	35	M12	50	ER20	1.50
	HSK63A-ER25-100	P2774902	1.0 - 16.0	100	42	M12	57	ER25	1.80
	HSK63A-ER32-100	P2774903	1.0 - 20.0	100	50	M12	47	ER32	2.00
	HSK63A-ER40-120	P2774904	2.0 - 30.0	120	63	M12	69	ER40	2.30
80A	HSK80A-ER16-100	P2774943	0.5 - 10.0	100	28	M12	45	ER16	1.77
	HSK80A-ER25-100	P2774944	1.0 - 16.0	100	42	M12	47	ER20	1.79
	HSK80A-ER32-100	P2774945	1.0 - 20.0	100	50	M12	53	ER25	1.95
100A	HSK100A-ER16-100	P2774905	0.5 - 10.0	100	28	M12	45	ER16	2.60
	HSK100A-ER20-100	P2774946	0.5 - 13.0	100	35	M12	50	ER20	2.70
	HSK100A-ER25-100	P2774906	1.0 - 16.0	100	42	M12	57	ER25	2.90
	HSK100A-ER32-100	P2774907	1.0 - 20.0	100	50	M12	56.5	ER32	3.10
	HSK100A-ER40-120	P2774947	2.0 - 30.0	120	63	M12	69	ER40	3.30

ER COLLET CHUCK

FEATURE

- Powerful chucking, high precision and easy operation
- Precise machining is stably maintained without chattering in High-Speed rotation.
- Due to nut designed with small bore, interference with work piece can be minimized and it enables speedy operation.
- Various nuts can be selected and used according to usage.
- Unlike single taper, double taper has long chucking part providing excellent torque power.

HIGH PRECISION

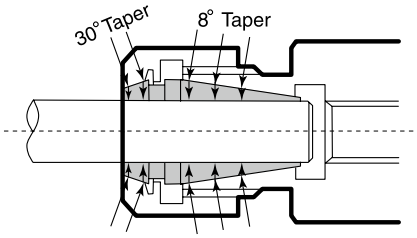


- By using high precision collet, excellent T.I.R can be achievable.
- With fine cutting of 16 sections, it has excellent contractile force, which makes higher precision can be achieved.

D	L	Max.T.I.R(STD.)
Ø1 ~ Ø1.6	6	0.015
Ø1.6 ~ Ø3	10	0.015
Ø3 ~ Ø6	16	0.015
Ø6 ~ Ø10	25	0.015
Ø10 ~ Ø18	40	0.020
Ø18 ~ Ø26	50	0.020
Ø26 ~ Ø34	60	0.020

STRONG TORQUE POWER

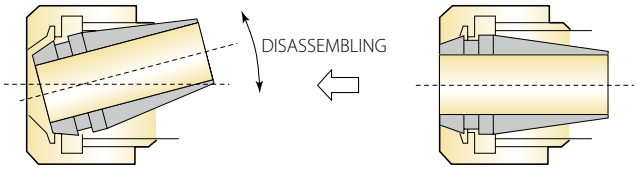
- Longer clamping part of double taper collet provides stronger torque power.
- Stronger torque power can be achieved if ball bearing nut is used.



EASY ASSEMBLING AND DISASSEMBLING

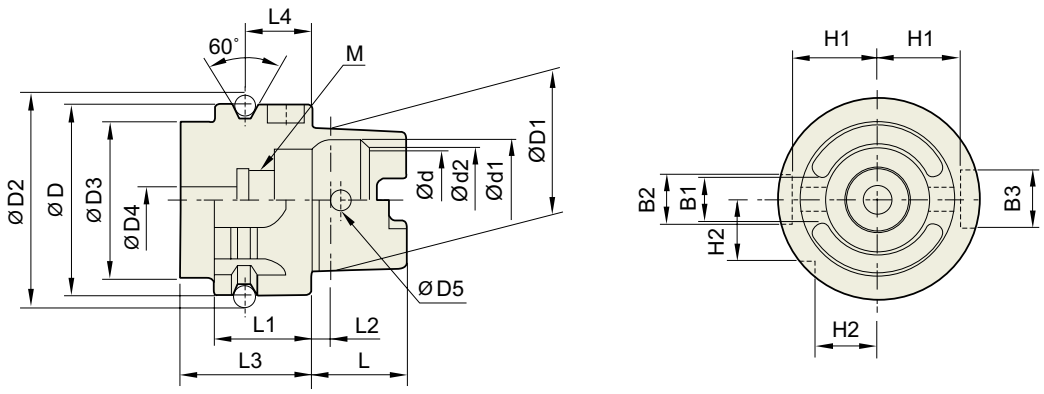
- For assembling or disassembling of collet, first gently insert groove part of collet into eccentrical portion inside nut, and fasten it to same direction as screw or loosen it reversely.

- Notice :
  In case of Ø12.2mm tool, don't use Ø12~11mm collet.
  But use collet with Ø12.5~11.5mm.
  (In case of general cutting process,
  Ø13~12mm collet is usable)



TECHNICAL DATA : SHANK STANDARD

DIN 69893/
ISO12164-1-HSK



Unit : mm

TAPER No.	ØD	ØD1	ØD2	ØD3	ØD4	ØD5	L	L1	L2	L3	L4
HSK32A	32	24	37.00	26	4.2	4.0	16	20	3.2	35	16
HSK40A	40	30	45.00	34	5.0	4.6	20	20	4.0	35	16
HSK50A	50	38	59.30	42	6.8	6.0	25	26	5.0	42	18
HSK63A	63	48	72.30	53	8.4	7.5	32	26	6.3	42	18
HSK80A	80	60	88.8	68	10.2	8.5	40	26	8	42	18
HSK100A	100	75	109.75	85	12.0	12.0	50	29	10.0	45	20

Unit : mm

TAPER No.	Ød	Ød1	Ød2	B1	B2	B3	H1	H2	L4
HSK32A	17	20.5	19	7.05	7	9	13.0	9.5	M10×1.0
HSK40A	21	25.5	23	8.05	9	11	17.0	12.0	M12×1.0
HSK50A	26	32.0	29	10.54	12	14	21.0	15.5	M16×1.0
HSK63A	34	40.0	37	12.54	16	18	26.5	20.0	M18×1.0
HSK80A	42	50	46	16.04	18	20	34	25	M20×1.5
HSK100A	53	63.0	58	20.02	20	22	44.0	31.5	M24×1.5

Model Numbering System

BT	40	AD/B	ER	16	70
Shank type	Shank size	Coolant Supplying System	Product name	Tool Holder I.D = Tool Shank O.D	"Gauge Line" Length and Other Spec.

Surface Finish

Shot Peened	Black Oxidized	Bright Finish	Anti Rust Treated