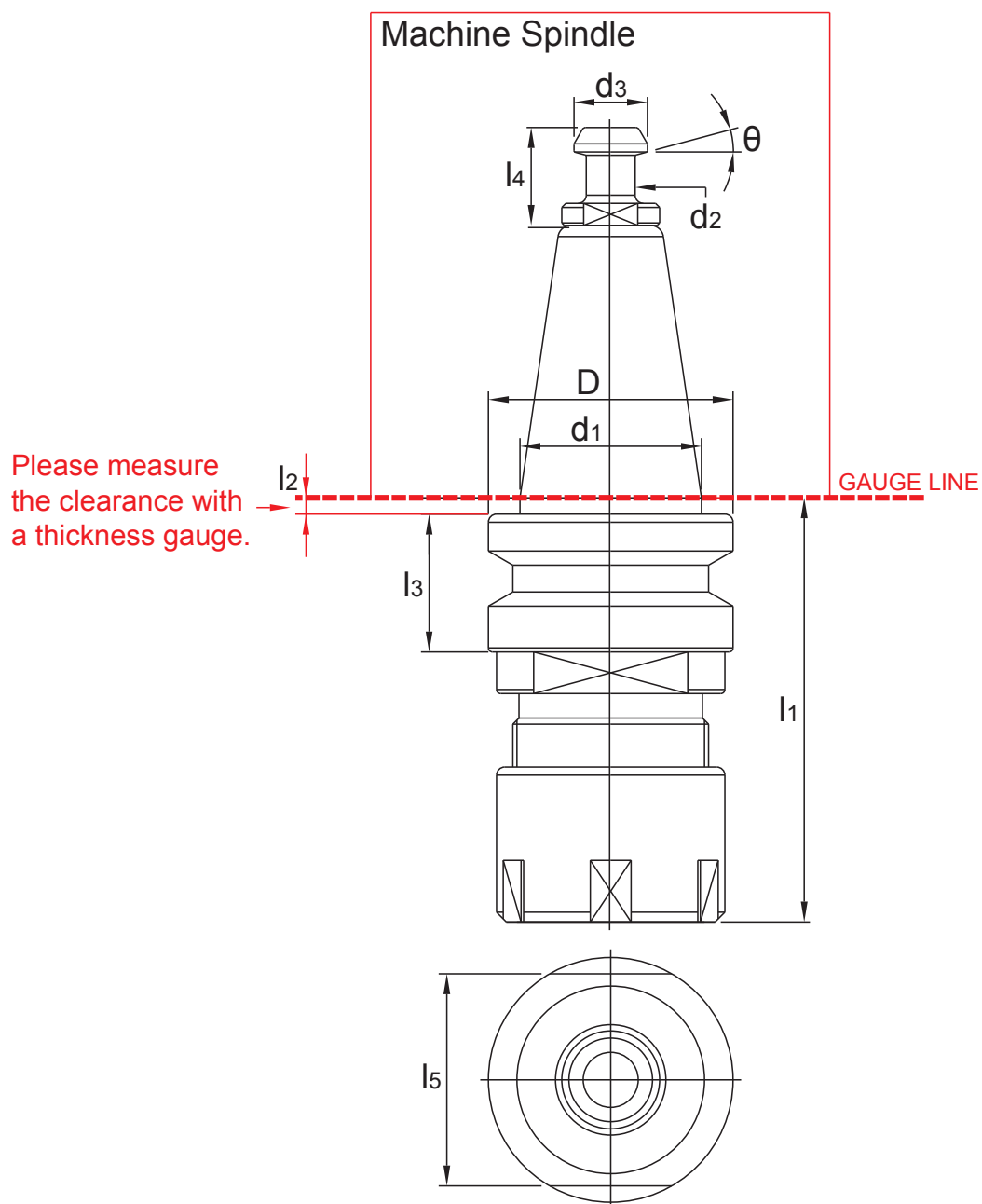


ISO CATEGORY

ER TOOL HOLDER	L-3
SK3 COLLET CHUCK	L-4
SBL SLIM-FIT COLLET CHUCK	L-5
SBLC SLIM-FIT COLLET CHUCK	L-6
EBL SLIM-FIT COLLET CHUCK	L-7
EBLC SLIM-FIT COLLET CHUCK	L-8

TOOLING MEASUREMENT GUIDE FOR SPECIAL ORDERS

When ordering the custom-made ISO tool holders, please offer the following dimensions (shown as the drawing) by filling out the form. Thank you!

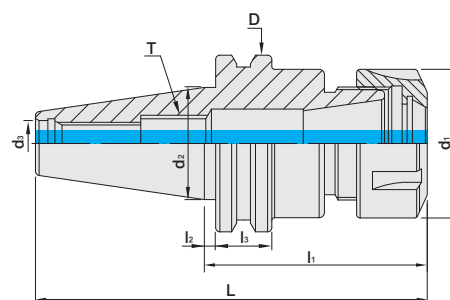


ISO / ER TOOL HOLDER

W/OUT SLOTS



ISO / ER 刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	D	d ₁	d ₂	d ₃	T	SIZE RANGE	WEIGHT (KGS)
5111-108-011-052	ISO20 x ER11A - 52	83.3	52	2	8	33	19	21.642	8.5	M6	1 ~ 7	0.55
5111-107-016-052	ISO20 x ER16AD - 52	85.4	52	2	15.9	30	32	22.255	8.5	M10	1 ~ 10	0.60
5111-108-016-052	ISO20 x ER16A - 52	83.3	52	2	8	33	28	21.642	8.5	M10	1 ~ 10	0.60
5111-107-020-052	ISO20 x ER20AD - 52	85.4	52	2	15.9	30	35	22.255	8.5	M10	1 ~ 13	0.65
5111-108-020-052	ISO20 x ER20A - 52	85.3	52	2	8	33	34	21.642	8.5	M12	1 ~ 13	0.65
5112-108-011-052	ISO25 x ER11A - 52	91.08	52	2.95	8	37	19	25.114	8.5	M6	1 ~ 7	0.60
5112-108-016-052	ISO25 x ER16A - 52	93.08	52	2.95	8	37	28	24.91	8.5	M10	1 ~ 10	0.65
5112-108-020-052	ISO25 x ER20A - 52	91.08	52	2.95	8	37	34	25.114	8.5	M12	1 ~ 13	0.70
5113-108-011-080	ISO30 x ER11A - 80	127.8	80	3.2	15.9	50	19	31.75	13	M6	1 ~ 7	0.70
5113-108-016-063	ISO30 x ER16A - 63	110.8	63	3.2	15.9	50	28	31.75	13	M10	1 ~ 10	0.80
5113-108-020-063	ISO30 x ER20A - 63	110.8	63	3.2	15.9	50	34	31.75	13	M12	1 ~ 13	0.85
5113-110-025-063	ISO30 x ER25 - 63	110.8	63	3.2	15.9	50	42	31.75	13	M16	1 ~ 16	0.90
5113-110-032-063	ISO30 x ER32 - 63	110.8	63	3.2	15.9	50	50	31.75	13	M16	2 ~ 20	0.90
5113-110-040-057	ISO30 x ER40 - 57	105.14	57	3.2	15.9	50	63	31.75	13	M16	3 ~ 26	0.95

Features:

- ▶ According to ISO 15488.
- ▶ This ER tool holder has superior flexibility for use with all tool types, e.g. drills, taps, mills, reamers.
- ▶ It is recommended to tighten the clamping nuts using a torque wrench. Refer to the catalogue page of ER POWER GOOD NUT for the info. of recommended tightening torque.
- ▶ ISO-ER-AD holders have a different design on the flange and are assembled with ER-HS nuts.

Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-19~45	P.X-63,65~67	P.X-76	P.X-81~84,87~88,91	P.X-85	P.X-86	P.X-121

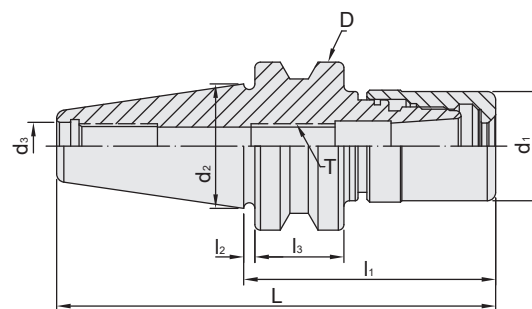


ISO / SK3 COLLET CHUCK

5 μ m

BALANCE
G2.5
25,000 RPM

ISO / SK3 高速機專用夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	l ₃	D	d ₁	d ₂	d ₃	T	SIZE RANGE	WEIGHT (KGS)
5111-763-006-045	ISO20 x SK306 - 45	78.4	45	2	15.9	30	19.5	22.225	8.5	M8	1~6	0.18
5111-763-006-060	ISO20 x SK306 - 60	93.4	60	2	15.9	30	19.5	22.225	8.5	M8	1~6	0.21
5111-763-010-050	ISO20 x SK310 - 50	83.4	50	2	15.9	30	27.5	22.225	8.5	M12	2~10	0.22
5112-763-006-045	ISO25 x SK306 - 45	82.7	45	2	8	37	19.5	25	8.5	M8	1~6	0.21
5112-763-006-060	ISO25 x SK306 - 60	97.7	60	2	8	37	19.5	25	8.5	M8	1~6	0.24
5112-763-010-040	ISO25 x SK310 - 40	77.7	40	2	8	37	27.5	25	8.5	M12	2~10	0.22
5112-763-010-060	ISO25 x SK310 - 60	97.7	60	2	8	37	27.5	25	8.5	M12	2~10	0.30
5113-763-006-045	ISO30 x SK306 - 45	92.8	45	3.2	15.9	50	19.5	31.75	13	M8	1~6	0.43
5113-763-006-060	ISO30 x SK306 - 60	107.8	60	3.2	15.9	50	19.5	31.75	13	M8	1~6	0.46
5113-763-010-050	ISO30 x SK310 - 50	97.8	50	3.2	15.9	50	27.5	31.75	13	M12	2~10	0.48

Features:

- ▶ Using 4° taper angle collets achieves higher clamping power and stability than 8° design of the ER system.
- ▶ Smaller OD nuts without slots are ideal for high-speed machining with less interference.
- ▶ Dustproof design of adding O rings prevents metal chips and coolants from getting into tool holders

Product information:

- ▶ Higher balancing grade and revolution can be done upon request but additional charge is needed.

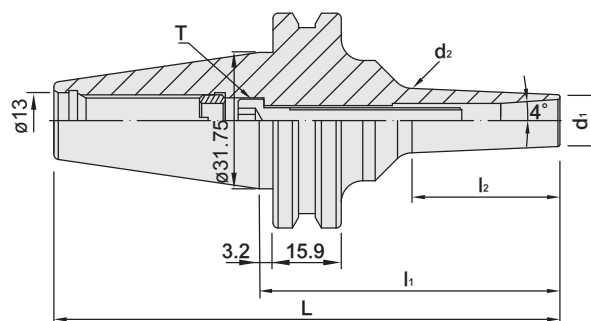
Standard Accessory: • NUT

Collet	Nut	Pull Stud	Spanner	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Preset Screw
P.X-46~48	P.X-68	P.X-76	P.X-81,83~84,91	P.X-85	P.X-86	P.X-121

ISO / SBL SLIM-FIT COLLET CHUCK



ISO / SBL 後拉式立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	1bf-ft		
5113-648-006-070	ISO30 x SBL6 - 70	117.8	70	39	14	18	M6	12	9	3 ~ 6	0.70
5113-648-012-070	ISO30 x SBL12 - 70	117.8	70	46	26	30	M10	45	33	3 ~ 12	0.80
5113-648-020-080	ISO30 x SBL20 - 80	127.8	80	58	35	37	M12	60	44	3 ~ 20	0.85

Features:

- ▶ The design of non-clamping nut and slim front ends reduces interference, ideal for deep hole machining.
- ▶ Taper angle 4° increases the stability of clamping precision.
- ▶ T.I.R. is within 5μm at 4D distance.

Product information:

- ▶ Higher balancing grade and revolution can be done upon request but additional charge is needed.

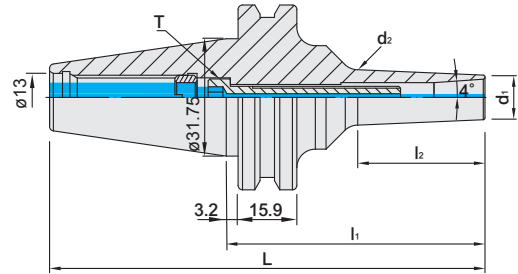
Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Screw
P.X-49	P.X-76	P.X-81, 85	P.X-86	P.X-89	P.X-125



ISO / SBLC SLIM-FIT COLLET CHUCK



ISO / SBLC 後拉式立銑刀夾頭



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	1bf-ft		
5113-623-006-070	ISO30 x SBLC6 - 70	117.8	70	39	14	18	M6	12	9	3 ~ 6	0.70
5113-623-012-070	ISO30 x SBLC12 - 70	117.8	70	46	26	30	M10	45	33	3 ~ 12	0.80
5113-623-020-080	ISO30 x SBLC20 - 80	127.8	80	58	35	37	M12	60	44	3 ~ 20	0.85

Features:

- ▶ SBLC collet chuck used for center coolant improves the metal chip removal capability and the surface finish of the workpiece.
- ▶ The design of non-clamping nut and slim front ends reduces interference, ideal for deep hole machining.
- ▶ T.I.R. is within 5μm at 4D distance.
- ▶ Taper angle 4° increases the stability of clamping precision.

Product information:

- ▶ Higher balancing grade and revolution can be done upon request but additional charge is needed.
- ▶ Used with SLC sealed collet and coolant through cutters.

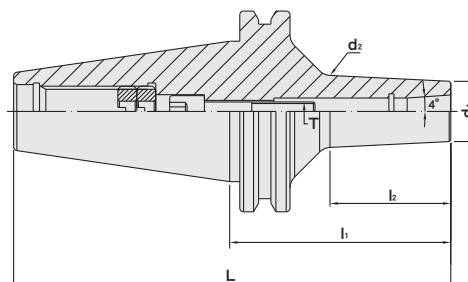
Standard Accessory: • SPANNER

Sealed Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Screw
P.X-50~51	P.X-76	P.X-81, 85	P.X-86	P.X-89	P.X-125

ISO / EBL SLIM-FIT COLLET CHUCK



ISO / EBL 後拉式刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	lbf-ft		
5113-277-006-070	ISO30 x EBL6 - 70	117.8	70	41.2	19.05	23.1	M6 x 1.0P	12	9	3 ~ 6	0.52



▶ SBL



▶ EBL

Features:

- ▶ EBL collet with extended length shortens tool overhanging length and improves the machining stability.
- ▶ The optimized design of thicker neck improves the machining rigidity and eliminates vibration, resulting in excellent surface finish of workpiece.

Standard Accessory: • SPANNER

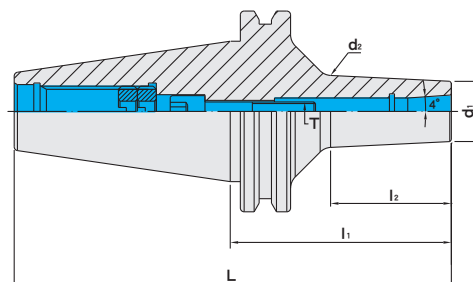
Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Screw
P.X-52	P.X-76	P.X-81, 85	P.X-86	P.X-89	P.X-125



ISO / EBLC SLIM-FIT COLLET CHUCK

5 μ mBALANCE
G2.5
25,000 RPM

ISO / EBLC 後拉式刀桿



MODEL NO.	TYPE	L	l ₁	l ₂	d ₁	d ₂	T	RECOMMENDED TORQUE		SIZE RANGE	WEIGHT (KGS)
								N.m	lbf-ft		
5113-195-006-070	ISO30 x EBLC6 - 70	117.8	70	41.2	19.05	23.1	M6 x 1.0P	12	9	3 ~ 6	0.52



▶ SBLC



▶ EBLC

Features:

- ▶ EBLC collet chuck used for center coolant improves the metal chip removal capability and the surface finish of the workpiece.
- ▶ EBL collet with extended length shortens tool overhanging length and improves the machining stability.
- ▶ The optimized design of thicker neck improves the machining rigidity and eliminates vibration, resulting in excellent surface finish of workpiece.
- ▶ EBL sealed collet is capable of coolant pressure up to 25bar.

Standard Accessory: • SPANNER

Collet	Pull Stud	Torque Wrench Adapter (Pull Stud)	Spanner (Pull Stud)	Spanner	Screw
P.X-52	P.X-76	P.X-81, 85	P.X-86	P.X-89	P.X-125