



CATÁLOGO DE PRODUCTOS



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Redes:





MANDRIL DE ROSCADO



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TAPPING CHUCKS

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PARALLEL SHANK (DIN1835 B+E)
PARALLEL SHANK - Synchro chucks.....

TAPPING CHUCKS

*Falcon quick change tapping chucks type WFLK are mainly used in CNC milling, CNC lathe and in conventional drilling machine.

*This quick change feature with length compensation is suitable for various adaptors

*Length compensating quick-change holders available with tension/compression feature that compensates for differences between tap pitch and machine feed.

*These chucks can be applied vertically & horizontally.

*These chucks can be used for doing right & left hand threads.

*The chucks cutting pressure can be adjusted to ensure positive start while starting tapping cycle.

*These chucks are available in

*BT(MAS 403)

*SK(DIN69871)

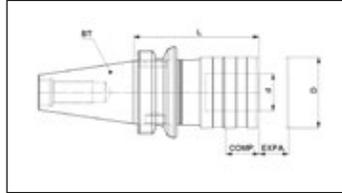
*HSK A(69893)

*PARALLEL SHANKS (DIN1835 FORM-B & FORM-E).

TAPPING CHUCKS

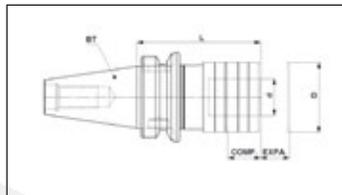
BT (DIN ISO 7388-2) (MAS 403)

BT30 Tapping Chucks



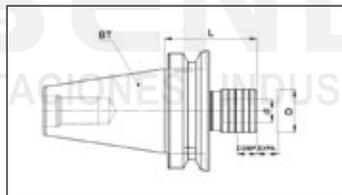
Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1B301X-WFLK1064	BT30 TAPPING CHUCK WFLK SIZE1 064	30	36	19	64	M3 - M12	7.5	7.5	WE1 / WES1B	0.57	B7000

BT40 Tapping Chucks



Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1B401X-WFLK1068	BT40 TAPPING CHUCK WFLK SIZE1 068	40	36	19	67.5	M3 - M12	7.5	7.5	WE1 / WES1B	1.16	B7000
F1B401X-WFLK2095	BT40 TAPPING CHUCK WFLK SIZE2 095	40	53	31	94.5	M5 - M20	12.5	12.5	WE2 / WES2B	1.61	B7000

BT50 Tapping Chucks

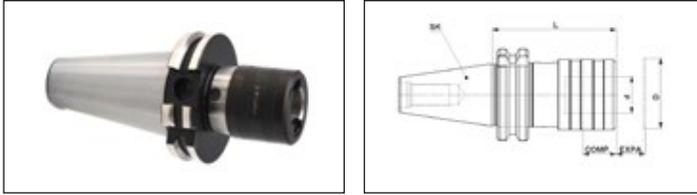


Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1B501X-WFLK1078	BT50 TAPPING CHUCK WFLK SIZE1 078	50	36	19	78	M3 - M12	7.5	7.5	WE1 / WES1B	3.77	B7000
F1B501X-WFLK2103	BT50 TAPPING CHUCK WFLK SIZE2 103	50	53	31	102.5	M5 - M20	12.5	12.5	WE2 / WES2B	4.08	B7000

TAPPING CHUCKS

SK (DIN ISO 7388-1) (DIN 69871)

SK30 Tapping chucks



Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1S301X-WFLK1064	SK30 TAPPING CHUCK WFLK SIZE1 064	30	36	19	64	M3 - M12	7.5	7.5	WE1 / WES1B	0.58	B7000

SK40 Tapping Chucks



Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1S401X-WFLK1060	SK40 TAPPING CHUCK WFLK SIZE1 060	40	36	19	60	M3 - M12	7.5	7.5	WE1 / WES1B	1.0	B7000
F1S401X-WFLK2098	SK40 TAPPING CHUCK WFLK SIZE2 098	40	53	31	98	M5 - M20	12.5	12.5	WE2 / WES2B	1.45	B7000

SK50 Tapping Chucks

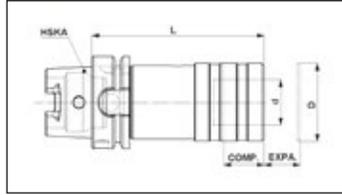


Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1S501X-WFLK1060	SK50 TAPPING CHUCK WFLK SIZE1 060	50	36	19	60	M3 - M12	7.5	7.5	WE1 / WES1B	2.82	B7000
F1S501X-WFLK2084	SK50 TAPPING CHUCK WFLK SIZE2 084	50	53	31	84	M5 - M20	12.5	12.5	WE2 / WES2B	3.24	B7000

TAPPING CHUCKS

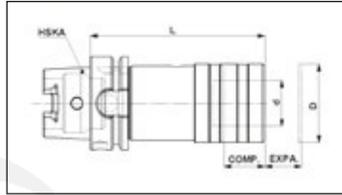
HSK (DIN 69893)

HSK A50 Tapping Chucks



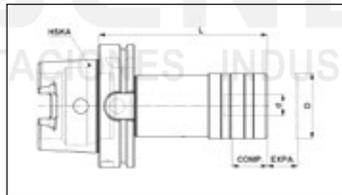
Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1A050X-WFLK1076	HSK A50 TAPPING CHUCK WFLK SIZE1 081	A50	36	19	76	M3 – M12	7.5	7.5	WE1 / WES1B	0.62	B7000
F1A050X-WFLK2123	HSK A50 TAPPING CHUCK WFLK SIZE2 123	A50	53	31	123	M5 – M20	12.5	12.5	WE2 / WES2B	0.93	B7000

HSK A63 Tapping Chucks



Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1A063X-WFLK1081	HSK A63 TAPPING CHUCK WFLK SIZE1 081	A63	36	19	81	M3 – M12	7.5	7.5	WE1 / WES1B	1.12	B7000
F1A063X-WFLK2119	HSK A63 TAPPING CHUCK WFLK SIZE2 119	A63	53	31	119	M5 – M20	12.5	12.5	WE2 / WES2B	1.40	B7000

HSK A100 Tapping Chucks



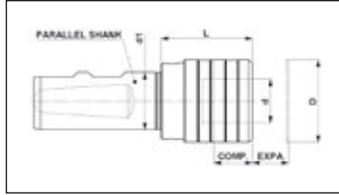
Part No.	Product name	Taper	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1A100X-WFLK1090	HSK A100 TAPPING CHUCK WFLK SIZE1 090	A100	36	19	90	M3 – M12	7.5	7.5	WE1 / WES1B	2.56	B7000
F1A100X-WFLK2138	HSK A100 TAPPING CHUCK WFLK SIZE2 138	A100	53	31	138	M5 – M20	12.5	12.5	WE2 / WES2B	3.45	B7000

TAPPING CHUCKS

WFLK Tapping Chucks

PARALLEL SHANK (DIN1835 B+E)

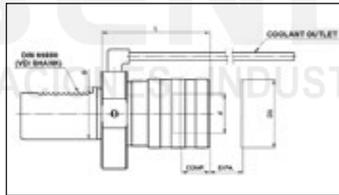
PARALLEL SHANK - Tapping chucks



Part No.	Product name	D1	D	d.	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1PS25X-WFLK1040	PARALLEL SHANK25 TAPPING CHUCK WFLK SIZE1 040	25	36	19	40	M3 - M12	7.5	7.5	WE1 / WES1B	0.5	B7000
F1PS25X-WFLK2063	PARALLEL SHANK25 TAPPING CHUCK WFLK SIZE2 063	25	53	31	63	M5 - M20	12.5	12.5	WE2 / WES2B	0.9	B7000
F1PS32X-WFLK1040	PARALLEL SHANK32 TAPPING CHUCK WFLK SIZE1 040	32	36	19	40	M3 - M12	7.5	7.5	WE1 / WES1B	0.90	B7000
F1PS32X-WFLK2063	PARALLEL SHANK32 TAPPING CHUCK WFLK SIZE 2 063	32	53	31	63	M5 - M20	12.5	12.5	WE2 / WES2B	0.98	B7000
F1PS40X-WFLK1040	PARALLEL SHANK40 TAPPING CHUCK WFLK SIZE2 063	40	36	19	40	M3-M12	7.5	7.5	WE1 / WES1B	0.87	B7000
F1PS40X-WFLK2063	PARALLEL SHANK40 TAPPING CHUCK WFLK SIZE2 063	40	53	31	63	M5 - M20	12.5	12.5	WE2 / WES2B	1.0	B7000

VDI (DIN69880)

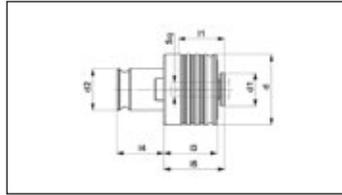
VDI SHANK - Tapping Chucks



Part No.	Product name	D	d.	D1	L	Tap Size	Compression	Expansion	Adaptor Model	Kgs	Group
F1VD30X-WFLK1062	VDI30 TAPPING CHUCK WFLK SIZE1 062	VDI30	19	36	61.5	M3-M12	7.5	7.5	WE1 / WES1B	1.20	B7000
F1VD30X-WFLK2084	VDI30 TAPPING CHUCK WFLK SIZE2 084	VDI30	31	53	84	M5-M20	7.5	7.5	WE2 / WES2B	1.23	B7000
F1VD40X-WFLK1062	VDI40 TAPPING CHUCK WFLK SIZE1 062	VDI40	19	36	61.5	M3-M12	7.5	7.5	WE1B / WES1B	1.52	B7000
F1VD40X-WFLK2084	VDI40 TAPPING CHUCK WFLK SIZE2 084	VDI40	31	53	84	M5-M20	7.5	7.5	WE2B / WES2B	1.81	B7000
F1VD50X-WFLK1062	VDI50 TAPPING CHUCK WFLK SIZE1 062	VDI50	19	36	61.5	M3-M12	7.5	7.5	WE1B / WES1B	2.10	B7000
F1VD50X-WFLK2080	VDI50 TAPPING CHUCK WFLK SIZE2 080	VDI50	31	53	80	M5-M20	7.5	7.5	WE2B / WES2B	2.32	B7000

TAPPING CHUCKS

WES1B - Tap adaptor with clutch



ADAPTOR TYPE	TAP RANGE	d	d1	d2	l1	l3	l4	l5
FWES 1B	M3-M12	32	18.4	19	17	24.5	21.5	25

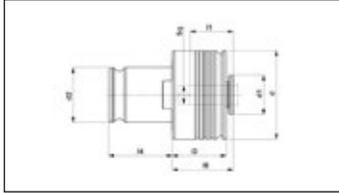
Part No.	Product name	DIA	SQ	Tap Size	Kgs	Group
F18822-77101	WES1B TAP ADAPTOR DIA 2.5 X SQ 2.1 M1.8	2.5	2.1	M1.8	0.15	B7000
F18822-77102	WES1B TAP ADAPTOR DIA 2.5 X SQ 2.1 M2	2.5	2.1	M2	0.15	B7000
F18822-77103	WES1B TAP ADAPTOR DIA 2.8 X SQ 2.1 M2	2.8	2.1	M2	0.15	B7000
F18822-77104	WES1B TAP ADAPTOR DIA 2.8 X SQ 2.1 M3	2.8	2.1	M3	0.15	B7000
F18822-77105	WES1B TAP ADAPTOR DIA 3.15 X SQ 2.5 M3	3.15	2.5	M3	0.15	B7000
F18822-77106	WES1B TAP ADAPTOR DIA 3.15 X SQ 2.5 M4	3.15	2.5	M4	0.15	B7000
F18822-77107	WES1B TAP ADAPTOR DIA 3.5 X SQ 2.7 M3	3.5	2.7	M3	0.15	B7000
F18822-77108	WES1B TAP ADAPTOR DIA 3.5 X SQ 2.7 M5	3.5	2.7	M5	0.15	B7000
F18822-77109	WES1B TAP ADAPTOR DIA 3.55 X SQ 2.8 M3.5	3.55	2.8	M3.5	0.15	B7000
F18822-77110	WES1B TAP ADAPTOR DIA 3.55 X SQ 2.8 M4.5	3.55	2.8	M4.5	0.15	B7000
F18822-77111	WES1B TAP ADAPTOR DIA 4.0 X SQ 3.0 M3	4.0	3.0	M3	0.15	B7000
F18822-77112	WES1B TAP ADAPTOR DIA 4.0 X SQ 3.0 M3.5	4.0	3.0	M3.5	0.15	B7000
F18822-77113	WES1B TAP ADAPTOR DIA 4.0 X SQ 3.0 M4	4.0	3.0	M4	0.15	B7000
F18822-77114	WES1B TAP ADAPTOR DIA 4.0 X SQ 3.15 M4	4.0	3.15	M4	0.15	B7000
F18822-77115	WES1B TAP ADAPTOR DIA 4.0 X SQ 3.15 M5	4.0	3.15	M5	0.15	B7000
F18822-77116	WES1B TAP ADAPTOR DIA 4.0 X SQ 3.2 M3	4.0	3.2	M3	0.15	B7000
F18822-77117	WES1B TAP ADAPTOR DIA 4.5 X SQ 3.4 M4	4.5	3.4	M4	0.15	B7000
F18822-77118	WES1B TAP ADAPTOR DIA 4.5 X SQ 3.4 M6	4.5	3.4	M6	0.15	B7000
F18822-77119	WES1B TAP ADAPTOR DIA 4.5 X SQ 3.55 M6	4.5	3.55	M6	0.15	B7000
F18822-77120	WES1B TAP ADAPTOR DIA 5.0 X SQ 4.0 M4	5.0	4.0	M4	0.15	B7000
F18822-77121	WES1B TAP ADAPTOR DIA 5.0 X SQ 4.0 M4.5	5.0	4.0	M4.5	0.15	B7000
F18822-77122	WES1B TAP ADAPTOR DIA 5.0 X SQ 4.0 M5	5.0	4.0	M5	0.15	B7000
F18822-77123	WES1B TAP ADAPTOR DIA 5.5 X SQ 4.5 M5	5.5	4.5	M5	0.15	B7000
F18822-77124	WES1B TAP ADAPTOR DIA 5.5 X SQ 4.5 M5.5	5.5	4.5	M5.5	0.15	B7000
F18822-77125	WES1B TAP ADAPTOR DIA 5.6 X SQ 4.5 M7	5.6	4.5	M7	0.15	B7000
F18822-77126	WES1B TAP ADAPTOR DIA 6.0 X SQ 4.5 M6	6.0	4.5	M6	0.15	B7000
F18822-77127	WES1B TAP ADAPTOR DIA 6.0 X SQ 4.9 M5	6.0	4.5	M5	0.15	B7000
F18822-77128	WES1B TAP ADAPTOR DIA 6.0 X SQ 4.9 M6	6.0	4.9	M6	0.15	B7000
F18822-77129	WES1B TAP ADAPTOR DIA 6.0 X SQ 4.9 M8	6.0	4.9	M8	0.15	B7000
F18822-77132	WES1B TAP ADAPTOR DIA 6.2 X SQ 5.0 M7	6.2	5.0	M7	0.15	B7000
F18822-77133	WES1B TAP ADAPTOR DIA 6.2 X SQ 5.0 M8	6.2	5.0	M8	0.15	B7000
F18822-77134	WES1B TAP ADAPTOR DIA 6.3 X SQ 5.0 M6	6.3	5.0	M6	0.15	B7000
F18822-77135	WES1B TAP ADAPTOR DIA 6.3 X SQ 5.0 M8	6.3	5.0	M8	0.15	B7000
F18822-77136	WES1B TAP ADAPTOR DIA 7.0 X SQ 5.5 M9	7.0	5.5	M9	0.15	B7000
F18822-77137	WES1B TAP ADAPTOR DIA 7.0 X SQ 5.5 M10	7.0	5.5	M10	0.15	B7000
F18822-77138	WES1B TAP ADAPTOR DIA 7.1 X SQ 5.6 M7	7.1	5.6	M7	0.15	B7000
F18822-77139	WES1B TAP ADAPTOR DIA 8.0 X SQ 6.0 M11	8.0	6.0	M11	0.15	B7000
F18822-77140	WES1B TAP ADAPTOR DIA 8.0 X SQ 6.2 M11	8.0	6.2	M11	0.15	B7000
F18822-77141	WES1B TAP ADAPTOR DIA 8.0 X SQ 6.2 M8	8.0	6.2	M8	0.15	B7000
F18822-77142	WES1B TAP ADAPTOR DIA 8.0 X SQ 6.3 M8	8.0	6.3	M8	0.15	B7000
F18822-77143	WES1B TAP ADAPTOR DIA 8.0 X SQ 6.3 M10	8.0	6.3	M10	0.15	B7000
F18822-77144	WES1B TAP ADAPTOR DIA 8.5 X SQ 6.5 M12	8.5	6.5	M12	0.15	B7000
F18822-77145	WES1B TAP ADAPTOR DIA 9.0 X SQ 7.0 M12	9.0	7.0	M12	0.15	B7000
F18822-77146	WES1B TAP ADAPTOR DIA 9.0 X SQ 7.1 M12	9.0	7.1	M12	0.15	B7000
F18822-77147	WES1B TAP ADAPTOR DIA 10 X SQ 8.0 M10	10.0	8.0	M10	0.15	B7000
F18822-77148	WES1B TAP ADAPTOR DIA 10.5 X SQ 8.0 M14	10.5	8.0	M14	0.15	B7000
F18822-77149	WES1B TAP ADAPTOR DIA 10.5 X SQ 8.0 M15	10.5	8.0	M15	0.15	B7000
F18822-77150	WES1B TAP ADAPTOR DIA 11.0 X SQ 9.0 M14	11.0	9.0	M14	0.15	B7000
F18822-77151	WES1B TAP ADAPTOR DIA 11.2 X SQ 9.0 M14	11.2	9.0	M14	0.15	B7000

WES1B Quick Change Tap Adaptor With Clutch

TAPPING CHUCKS

WES2B Quick Change Tap Adaptor With Clutch

WES2B - Tap adaptor with clutch

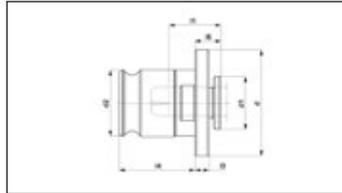


ADAPTOR RANGE	TAP RANGE	d	d1	d2	l1	l3	l4	l5
FWES 2B	M5-M20	50	30	31	30	30.5	36	33

Part No.	Product name	DIA	SQ	Tap Size	Kgs	Group
F18823-77127	WES2B TAP ADAPTOR DIA 6.0 X SQ 4.9 M5	6.0	4.9	M5	0.55	B7000
F18823-77128	WES2B TAP ADAPTOR DIA 6.0 X SQ 4.9 M6	6.0	4.9	M6	0.55	B7000
F18823-77129	WES2B TAP ADAPTOR DIA 6.0 X SQ 4.9 M8	6.0	4.9	M8	0.55	B7000
F18823-77132	WES2B TAP ADAPTOR DIA 6.2 X SQ 5.0 M7	6.2	5.0	M7	0.55	B7000
F18823-77133	WES2B TAP ADAPTOR DIA 6.2 X SQ 5.0 M8	6.2	5.0	M8	0.55	B7000
F18823-77134	WES2B TAP ADAPTOR DIA 6.3 X SQ 5.0 M6	6.3	5.0	M6	0.55	B7000
F18823-77136	WES2B TAP ADAPTOR DIA 7.0 X SQ 5.5 M9	7.0	5.5	M9	0.55	B7000
F18823-77137	WES2B TAP ADAPTOR DIA 7.0 X SQ 5.5 M10	7.0	5.5	M10	0.55	B7000
F18823-77138	WES2B TAP ADAPTOR DIA 7.1 X SQ 5.6 M7	7.1	5.6	M7	0.55	B7000
F18823-77139	WES2B TAP ADAPTOR DIA 8.0 X SQ 6.0 M11	8.0	6.0	M11	0.55	B7000
F18823-77140	WES2B TAP ADAPTOR DIA 8.0 X SQ 6.2 M11	8.0	6.2	M11	0.55	B7000
F18823-77141	WES2B TAP ADAPTOR DIA 8.0 X SQ 6.2 M8	8.0	6.2	M8	0.55	B7000
F18823-77142	WES2B TAP ADAPTOR DIA 8.0 X SQ 6.3 M8	8.0	6.3	M8	0.55	B7000
F18823-77143	WES2B TAP ADAPTOR DIA 8.0 X SQ 6.3 M10	8.0	6.3	M10	0.55	B7000
F18823-77144	WES2B TAP ADAPTOR DIA 8.5 X SQ 6.5 M12	8.5	6.5	M12	0.55	B7000
F18823-77145	WES2B TAP ADAPTOR DIA 9.0 X SQ 7.0 M12	9.0	7.0	M12	0.55	B7000
F18823-77146	WES2B TAP ADAPTOR DIA 9.0 X SQ 7.1 M12	9.0	7.1	M12	0.55	B7000
F18823-77147	WES2B TAP ADAPTOR DIA 10.0 X SQ 8.0 M10	10.0	8.0	M10	0.50	B7000
F18823-77148	WES2B TAP ADAPTOR DIA 10.5 X SQ 8.0 M14	10.5	8.0	M14	0.50	B7000
F18823-77149	WES2B TAP ADAPTOR DIA 10.5 X SQ 8.0 M15	10.5	8.0	M15	0.50	B7000
F18823-77150	WES2B TAP ADAPTOR DIA 11.0 X SQ 9.0 M14	11.0	9.0	M14	0.50	B7000
F18823-77151	WES2B TAP ADAPTOR DIA 11.2 X SQ 9.0 M14	11.2	9.0	M14	0.50	B7000
F18823-77152	WES2B TAP ADAPTOR DIA 12.0 X SQ 9.0 M16	12.0	9.0	M16	0.50	B7000
F18823-77153	WES2B TAP ADAPTOR DIA 12.5 X SQ 10.0 M16	12.5	10.0	M16	0.50	B7000
F18823-77154	WES2B TAP ADAPTOR DIA 13.0 X SQ 10.0 M17	13.0	10.0	M17	0.50	B7000
F18823-77155	WES2B TAP ADAPTOR DIA 14.0 X SQ 11.0 M18	14.0	11.0	M18	0.48	B7000
F18823-77156	WES2B TAP ADAPTOR DIA 14.0 X SQ 11.2 M18	14.0	11.2	M18	0.48	B7000
F18823-77157	WES2B TAP ADAPTOR DIA 14.0 X SQ 11.2 M20	14.0	11.2	M20	0.48	B7000
F18823-77158	WES2B TAP ADAPTOR DIA 15.0 X SQ 12.0 M20	15.0	12.0	M20	0.48	B7000
F18823-77159	WES2B TAP ADAPTOR DIA 16.0 X SQ 12.0 M20	16.0	12.0	M20	0.48	B7000
F18823-77160	WES2B TAP ADAPTOR DIA 16.0 X SQ 12.5 M22	16.0	12.5	M22	0.45	B7000
F18823-77161	WES2B TAP ADAPTOR DIA 17.0 X SQ 13.0 M22	17.0	13.0	M22	0.45	B7000
F18823-77162	WES2B TAP ADAPTOR DIA 18.0 X SQ 14.0 M24	18.0	14.0	M24	0.45	B7000
F18823-77163	WES2B TAP ADAPTOR DIA 18.0 X SQ 14.5 M22	18.0	14.5	M22	0.45	B7000
F18823-77164	WES2B TAP ADAPTOR DIA 18.0 X SQ 14.5 M24	18.0	14.5	M24	0.45	B7000
F18823-77165	WES2B TAP ADAPTOR DIA 19.0 X SQ 15.0 M24	19.0	15.0	M24	0.45	B7000

TAPPING CHUCKS

WE1B - Tap adaptor without clutch



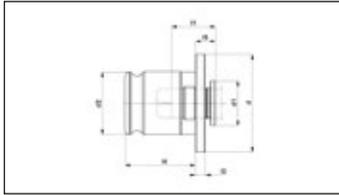
ADAPTOR RANGE	TAP RANGE	d	d1	d2	l1	l3	l4	l5
FWE 1B	M3-M12	30	19	19	17	4	21.5	7

Part No.	Product name	DIA	SQ	Kgs	Group
F18811-77101	WE1B TAP ADAPTOR DIA 2.5 X SQ 2.1	2.5	2.1	0.07	B7000
F18811-77103	WE1B TAP ADAPTOR DIA 2.8 X SQ 2.1	2.8	2.1	0.07	B7000
F18811-77105	WE1B TAP ADAPTOR DIA 3.15 X SQ 2.5	3.15	2.5	0.07	B7000
F18811-77107	WE1B TAP ADAPTOR DIA 3.5 X SQ 2.7	3.5	2.7	0.07	B7000
F18811-77109	WE1B TAP ADAPTOR DIA 3.55 X SQ 2.8	3.55	2.8	0.07	B7000
F18811-77111	WE1B TAP ADAPTOR DIA 4.0 X SQ 3.0	4.0	3.0	0.06	B7000
F18811-77114	WE1B TAP ADAPTOR DIA 4.0 X SQ 3.15	4.0	3.15	0.06	B7000
F18811-77116	WE1B TAP ADAPTOR DIA 4.0 X SQ 3.2	4.0	3.2	0.06	B7000
F18811-77117	WE1B TAP ADAPTOR DIA 4.5 X SQ 3.4	4.5	3.4	0.06	B7000
F18811-77119	WE1B TAP ADAPTOR DIA 4.5 X SQ 3.55	4.5	3.55	0.06	B7000
F18811-77120	WE1B TAP ADAPTOR DIA 5.0 X SQ 4.0	5.0	4.0	0.06	B7000
F18811-77123	WE1B TAP ADAPTOR DIA 5.5 X SQ 4.5	5.5	4.5	0.06	B7000
F18811-77125	WE1B TAP ADAPTOR DIA 5.6 X SQ 4.5	5.6	4.5	0.06	B7000
F18811-77126	WE1B TAP ADAPTOR DIA 6.0 X SQ 4.5	6.0	4.5	0.06	B7000
F18811-77127	WE1B TAP ADAPTOR DIA 6.0 X SQ 4.9	6.0	4.9	0.06	B7000
F18811-77132	WE1B TAP ADAPTOR DIA 6.2 X SQ 5.0	6.2	5.0	0.06	B7000
F18811-77134	WE1B TAP ADAPTOR DIA 6.3 X SQ 5.0	6.3	5.0	0.06	B7000
F18811-77136	WE1B TAP ADAPTOR DIA 7.0 X SQ 5.5	7.0	5.5	0.06	B7000
F18811-77138	WE1B TAP ADAPTOR DIA 7.1 X SQ 5.6	7.1	5.6	0.06	B7000
F18811-77139	WE1B TAP ADAPTOR DIA 8.0 X SQ 6.0	8.0	6.0	0.06	B7000
F18811-77140	WE1B TAP ADAPTOR DIA 8.0 X SQ 6.2	8.0	6.2	0.06	B7000
F18811-77142	WE1B TAP ADAPTOR DIA 8.0 X SQ 6.3	8.0	6.3	0.06	B7000
F18811-77144	WE1B TAP ADAPTOR DIA 8.5 X SQ 6.5	8.5	6.5	0.06	B7000
F18811-77145	WE1B TAP ADAPTOR DIA 9.0 X SQ 7.0	9.0	7.0	0.06	B7000
F18811-77146	WE1B TAP ADAPTOR DIA 9.0 X SQ 7.1	9.0	7.1	0.06	B7000
F18811-77147	WE1B TAP ADAPTOR DIA 10.0 X SQ 8.0	10.0	8.0	0.06	B7000
F18811-77148	WE1B TAP ADAPTOR DIA 10.5 X SQ 8.0	10.5	8.0	0.06	B7000
F18811-77150	WE1B TAP ADAPTOR DIA 11.0 X SQ 9.0	11.0	9.0	0.06	B7000
F18811-77151	WE1B TAP ADAPTOR DIA 11.2 X SQ 9.0	11.2	9.0	0.06	B7000

WE1B Quick Change Tap Adaptor Without Clutch

TAPPING CHUCKS

WE2B - Tap adaptor without clutch



ADAPTOR TYPE	TAP RANGE	d	d1	d2	l1	l3	l4	l5
FWE 2B	M5-M20	48	30	31	30	5	35	11

Part No.	Product name	DIA	SQ	Kgs	Group
F18812-77127	WE2B TAP ADAPTOR DIA 6.0 X SQ 4.9	6.0	4.9	0.25	B7000
F18812-77132	WE2B TAP ADAPTOR DIA 6.2 X SQ 5.0	6.2	5.0	0.25	B7000
F18812-77134	WE2B TAP ADAPTOR DIA 6.3 X SQ 5.0	6.3	5.0	0.25	B7000
F18812-77136	WE2B TAP ADAPTOR DIA 7.0 X SQ 5.5	7.0	5.5	0.25	B7000
F18812-77138	WE2B TAP ADAPTOR DIA 7.1 X SQ 5.6	7.1	5.6	0.25	B7000
F18812-77139	WE2B TAP ADAPTOR DIA 8.0 X SQ 6.0	8.0	6.0	0.25	B7000
F18812-77140	WE2B TAP ADAPTOR DIA 8.0 X SQ 6.2	8.0	6.2	0.25	B7000
F18812-77142	WE2B TAP ADAPTOR DIA 8.0 X SQ 6.3	8.0	6.3	0.25	B7000
F18812-77144	WE2B TAP ADAPTOR DIA 8.5 X SQ 6.5	8.5	6.5	0.25	B7000
F18812-77145	WE2B TAP ADAPTOR DIA 9.0 X SQ 7.0	9.0	7.0	0.25	B7000
F18812-77146	WE2B TAP ADAPTOR DIA 9.0 X SQ 7.1	9.0	7.1	0.25	B7000
F18812-77147	WE2B TAP ADAPTOR DIA 10.0 X SQ 8.0	10.0	8.0	0.25	B7000
F18812-77148	WE2B TAP ADAPTOR DIA 10.5 X SQ 8.0	10.5	8.0	0.25	B7000
F18812-77150	WE2B TAP ADAPTOR DIA 11.0 X SQ 9.0	11.0	9.0	0.25	B7000
F18812-77151	WE2B TAP ADAPTOR DIA 11.2 X SQ 9.0	11.2	9.0	0.25	B7000
F18812-77152	WE2B TAP ADAPTOR DIA 12.0 X SQ 9.0	12.0	9.0	0.24	B7000
F18812-77153	WE2B TAP ADAPTOR DIA 12.5 X SQ 10.0	12.5	10.0	0.24	B7000
F18812-77154	WE2B TAP ADAPTOR DIA 13.0 X SQ 10.0	13.0	10.0	0.24	B7000
F18812-77155	WE2B TAP ADAPTOR DIA 14.0 X SQ 11.0	14.0	11.0	0.24	B7000
F18812-77156	WE2B TAP ADAPTOR DIA 14.0 X SQ 11.2	14.0	11.2	0.24	B7000
F18812-77158	WE2B TAP ADAPTOR DIA 15.0 X SQ 12.0	15.0	12.0	0.24	B7000
F18812-77159	WE2B TAP ADAPTOR DIA 16.0 X SQ 12.0	16.0	12.0	0.20	B7000
F18812-77160	WE2B TAP ADAPTOR DIA 16.0 X SQ 12.5	16.0	12.5	0.20	B7000
F18812-77161	WE2B TAP ADAPTOR DIA 17.0 X SQ 13.0	17.0	13.0	0.20	B7000
F18812-77162	WE2B TAP ADAPTOR DIA 18.0 X SQ 14.0	18.0	14.0	0.20	B7000
F18812-77163	WE2B TAP ADAPTOR DIA 18.0 X SQ 14.5	18.0	14.5	0.20	B7000
F18812-77165	WE2B TAP ADAPTOR DIA 19.0 X SQ 15.0	19.0	15.0	0.20	B7000

Quick Change Tap Adaptor Without Clutch WE2B

MANDRILES DE ROSCADO

DIMENSIONES DE VÁSTAGO DE MACHOS SEGÚN - ISO / DIN / JIS

Dimension Dia x Square	ISO 529	DIN 352	DIN 371	DIN 374	DIN 376	JIS STANDARDS
2.8 X 2.1	-	-	M1.8 & M2	-	-	-
3.15 X 2.5	M3 & M4	-	-	-	-	-
3.5 X 2.7	-	M3	M3	M5	M5	-
3.55 X 2.8	M3.5 & M4.5	-	-	-	-	-
4 X 3	-	M4	M3.5	-	-	M3 & M3.5
4 X 3.15	M4 & M5	-	-	-	-	-
4.5 X 3.4	-	M4	M4	M6	M6	-
4.5 X 3.55	M6	-	-	-	-	-
5 X 4	M5	-	-	-	-	M4 & M4.5
5.5 X 4.5	-	-	-	-	-	M5
6 X 4.5	-	-	-	-	-	M5
6 X 4.9	-	M5, M6 & M8	M5 & M6	M8	M8	-
6.2 X 5	-	-	-	-	-	M7 & M8
6.3 X 5	M6 & M8	-	-	-	-	-
7 X 5.5	-	M10	-	M10	M10	M9 & M10
8 X 6.2	-	-	M8	-	-	M11
8 X 6.3	M8 & M10	-	-	-	-	-
8.5 X 6.5	-	-	-	-	-	M12
9 X 7	-	M12	-	M12	M12	-
9 X 7.1	M12	-	-	-	-	-
10 X 8	M10	-	M10	-	-	-
10.5 X 8	-	-	-	-	-	M14
11 X 9	-	M14	-	M14	M14	-
11.2 X 9	M14	-	-	-	-	-
12 X 9	-	M16	-	M16	M16	-
12.5 X 10	M16	-	-	-	-	M16
13 X 10	-	-	-	-	-	M17
14 X 11	-	M18	-	M18	M18	M18
14 X 11.2	M18 & M20	-	-	-	-	-
15 X 12	-	-	-	-	-	M20
16 X 12	-	M20	-	M20	M20	-
16 X 12.5	M22	-	-	-	-	-
17 X 13	-	-	-	-	-	M22
18 X 14	M24	-	-	-	-	-
18 X 14.5	-	M22 & M24	-	M22 & M24	M22 & M24	-
19 X 15	-	-	-	-	-	M24
20 X 15	-	-	-	-	-	M27
20 X 16	M27 & M30	M27	-	M27	M27	-
22 X 18	-	M30	-	M30	M30	-
22.4 X 18	M33	-	-	-	-	-
23 X 17	-	-	-	-	-	M30
25 X 20	M36	M33	-	M33	M33	-
28 X 22	-	M36	-	M36	M36	-
28 X 22.4	M39 & M42	-	-	-	-	-
31.5 X 25	M45 & M48	-	-	-	-	-
32 X 24	-	M39 & M42	-	M39 & M42	M39 & M42	-
36 X 29	-	M45 & M48	-	M45 & M48	M45 & M48	-

TAPSHK DIMENSIONES DE ROSCADO

SYNCHRO CHUCKS

*Falcon synchro chucks compensate for the length error caused by the spindle backlash and achieve optimum performance from taps.

*Minimum length compensation for rigid tapping with compression and expansion +/- 0.50mm.

*Through coolant facility.

*High concentricity allows high speed tapping.

*Clamping with normal ER tap collets allows more range.

*Reduction of pressure on the thread flanks increase tap life.

*Better thread quality.

*Compensation of the synchronization error (pitch & feed error).

*These chucks are available in

*BT(MAS 403)

*SK(DIN69871)

*HSK A(69893)

*PARALLEL SHANKS (DIN1835 FORM-B & FORM-E)

*Available in following range,

*ER16 – M3 to M12

*ER20 – M3 to M16

*ER25 – M3 to M20

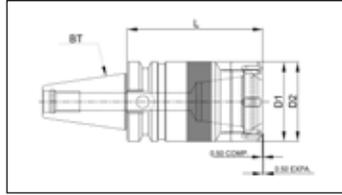
*ER32 – M4 to M27

*ER40 – M6 to M33

SYNCHRO CHUCKS

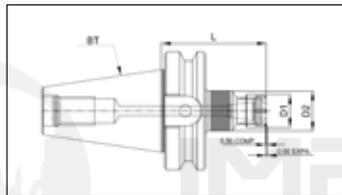
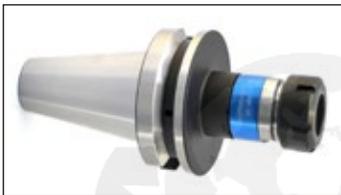
BT (DIN ISO 7388-2) (MAS 403)

BT40 - synchro chucks



Part No.	Product name	Taper	D1	D2	L	Size	Clamping range	Tap Size	Compression	Expansion	Kgs	Group
F1B409X-STC16079	BT40 ADB SYNCHRO TAP.CHUCK ER16 079	40	28	34	79	ER16	3.15 – 10	M3 – M12	0.5	0.5	1.20	B7000
F1B409X-STC20085	BT40 ADB SYNCHRO TAP.CHUCK ER20 085	40	35	34	85	ER20	3.5 – 12	M3 – M16	0.5	0.5	1.28	B7000
F1B409X-STC25089	BT40 ADB SYNCHRO TAP.CHUCK ER25 089	40	42	34	89	ER25	3.5 – 16	M3 – M20	0.5	0.5	1.35	B7000
F1B409X-STC32110	BT40 ADB SYNCHRO TAP.CHUCK ER32 110	40	50	45	110	ER32	3.5 – 20	M4 – M27	0.5	0.5	1.64	B7000
F1B409X-STC40115	BT40 ADB SYNCHRO TAP.CHUCK ER40 115	40	63	62	115	ER40	4.0 – 25	M6 – M33	0.5	0.5	2.30	B7000

BT50 - Synchro chucks

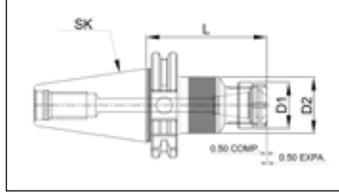


Part No.	Product name	Taper	D1	D2	L	Size	Clamping range	Tap Size	Compression	Expansion	Kgs	Group
F1B509X-STC16095	BT50 ADB SYNCHRO TAP.CHUCK ER16 095	50	28	34	95	ER16	3.15 – 10	M3 – M12	0.5	0.5	3.79	B7000
F1B509X-STC20100	BT50 ADB SYNCHRO TAP.CHUCK ER20 100	50	35	34	100	ER20	3.5 – 12	M3 – M16	0.5	0.5	3.87	B7000
F1B509X-STC25110	BT50 ADB SYNCHRO TAP.CHUCK ER25 110	50	42	34	110	ER25	3.5 – 16	M3 – M20	0.5	0.5	3.95	B7000
F1B509X-STC32120	BT50 ADB SYNCHRO TAP.CHUCK ER32 120	50	50	45	120	ER32	3.5 – 20	M4 – M27	0.5	0.5	4.16	B7000
F1B509X-STC40120	BT50 ADB SYNCHRO TAP.CHUCK ER40 120	50	63	62	120	ER40	4.0 – 25	M6 – M33	0.5	0.5	4.89	B7000

SYNCHRO CHUCKS

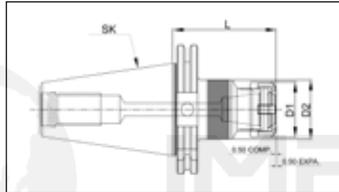
SK (DIN ISO 7388-1) (DIN 69871)

SK40 - Synchro chucks



Part No.	Product name	Taper	D1	D2	L	Size	Clamping range	Tap Size	Compression	Expansion	Kgs	Group
F1S409X-STC16079	SK40 ADB SYNCHRO TAP.CHUCK ER16 079	40	28	34	79	ER16	3.15 – 10	M3 – M12	0.5	0.5	1.04	B7000
F1S409X-STC20080	SK40 ADB SYNCHRO TAP.CHUCK ER20 080	40	35	34	80	ER20	3.5 – 12	M3 – M16	0.5	0.5	1.09	B7000
F1S409X-STC25084	SK40 ADB SYNCHRO TAP.CHUCK ER25 084	40	42	34	84	ER25	3.5 – 16	M3 – M20	0.5	0.5	1.16	B7000
F1S409X-STC32095	SK40 ADB SYNCHRO TAP.CHUCK ER32 095	40	50	45	95	ER32	3.5 – 20	M4 – M27	0.5	0.5	1.41	B7000
F1S409X-STC40120	SK40 ADB SYNCHRO TAP.CHUCK ER40 120	40	63	62	120	ER40	4.0 – 25	M6 – M33	0.5	0.5	2.10	B7000

SK50 - Synchro chucks

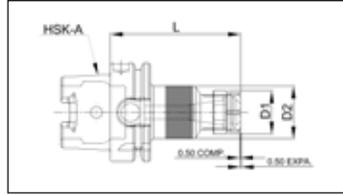


Part No.	Product name	Taper	D1	D2	L	Size	Clamping range	Tap Size	Compression	Expansion	Kgs	Group
F1S509X-STC16079	SK50 ADB SYNCHRO TAP.CHUCK ER16 079	50	28	34	79	ER16	3.15 – 10	M3 – M12	0.5	0.5	2.83	B7000
F1S509X-STC20080	SK50 ADB SYNCHRO TAP.CHUCK ER20 080	50	35	34	80	ER20	3.5 – 12	M3 – M16	0.5	0.5	2.91	B7000
F1S509X-STC25084	SK50 ADB SYNCHRO TAP.CHUCK ER25 084	50	42	34	84	ER25	3.5 – 16	M3 – M20	0.5	0.5	3.01	B7000
F1S509X-STC32095	SK50 ADB SYNCHRO TAP.CHUCK ER32 095	50	50	45	95	ER32	3.5 – 20	M4 – M27	0.5	0.5	3.41	B7000
F1S509X-STC40105	SK50 ADB SYNCHRO TAP.CHUCK ER40 105	50	63	62	105	ER40	4.0 – 25	M6 – M33	0.5	0.5	3.93	B7000

SYNCHRO CHUCKS

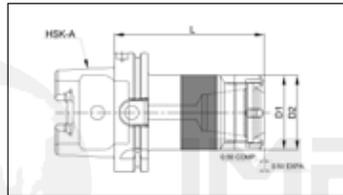
HSK (DIN 69893)

HSK A63 - Synchro chucks



Part No.	Product name	Taper	D1	D2	L	Size	Clamping range	Tap Size	Compression	Expansion	Kgs	Group
F1A063X-STC16089	HSK A63 SYNCHRO TAP. CHUCK ER16 089	A63	28	34	89	ER16	3.15 – 10	M3 – M12	0.5	0.5	0.85	B7000
F1A063X-STC20090	HSK A63 SYNCHRO TAP. CHUCK ER20 090	A63	35	34	90	ER20	3.5 – 12	M3 – M16	0.5	0.5	0.93	B7000
F1A063X-STC25094	HSK A63 SYNCHRO TAP. CHUCK ER25 094	A63	42	34	94	ER25	3.5 – 16	M3 – M20	0.5	0.5	1.00	B7000
F1A063X-STC32105	HSK A63 SYNCHRO TAP. CHUCK ER32 105	A63	50	45	105	ER32	3.5 – 20	M4 – M27	0.5	0.5	1.31	B7000
F1A063X-STC40133	HSK A63 SYNCHRO TAP. CHUCK ER40 133	A63	63	62	133.5	ER40	4.0 – 25	M6 – M33	0.5	0.5	1.95	B7000

HSK A100 - Synchro chucks



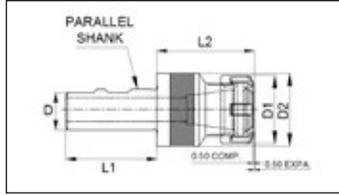
Part No.	Product name	Taper	D1	D2	L	Size	Clamping range	Tap Size	Compression	Expansion	Kgs	Group
F1A100X-STC16096	HSK A100 SYNCHRO TAP. CHUCK ER16 096	A100	28	34	96	ER16	3.15 – 10	M3 – M12	0.5	0.5	2.19	B7000
F1A100X-STC20097	HSK A100 SYNCHRO TAP. CHUCK ER20 097	A100	35	34	97	ER20	3.5 – 12	M3 – M16	0.5	0.5	2.27	B7000
F1A100X-STC25101	HSK A100 SYNCHRO TAP. CHUCK ER25 101	A100	42	34	101	ER25	3.5 – 16	M3 – M20	0.5	0.5	2.34	B7000
F1A100X-STC32110	HSK A100 SYNCHRO TAP. CHUCK ER32 110	A100	50	45	110	ER32	3.5 – 20	M4 – M27	0.5	0.5	2.67	B7000
F1A100X-STC40133	HSK A100 SYNCHRO TAP. CHUCK ER40 133	A100	63	62	133	ER40	4.0 – 25	M6 – M33	0.5	0.5	3.29	B7000

SYNCHRO CHUCKS

STC Synchro Chucks

PARALLEL SHANK (DIN1835 B+E)

PARALLEL SHANK - Synchro chucks



Part No.	Product name	D	D1	D2	L1	L2	Size	Clamping range	Tap Size	Compression	Expansion	Kgs	Group
F1PS20X-STC16058	PS20 SYNCHRO TAP. CHUCK ER16 058	20	28	34	51	58	ER16	3.15 – 10	M3 – M12	0.5	0.5	0.31	B7000
F1PS25X-STC16060	PS25 SYNCHRO TAP. CHUCK ER16 060	25	28	34	56	60	ER16	3.15 – 10	M3 – M12	0.5	0.5	0.41	B7000
F1PS25X-STC20061	PS25 SYNCHRO TAP. CHUCK ER20 061	25	35	34	56	61	ER20	3.5 – 12	M3 – M16	0.5	0.5	0.49	B7000
F1PS25X-STC25065	PS25 SYNCHRO TAP. CHUCK ER25 065	25	42	34	56	65	ER25	3.5 – 16	M3 – M20	0.5	0.5	0.55	B7000
F1PS25X-STC32087	PS25 SYNCHRO TAP. CHUCK ER32 069	25	50	45	56	87	ER32	3.5 – 20	M4 – M27	0.5	0.5	0.71	B7000
F1PS32X-STC40108	PS32 SYNCHRO TAP. CHUCK ER40 108	32	63	62	61	108.5	ER40	4.0 – 25	M6 – M33	0.5	0.5	0.69	B7000





Falcon®

MAS BT (JIS 6339)



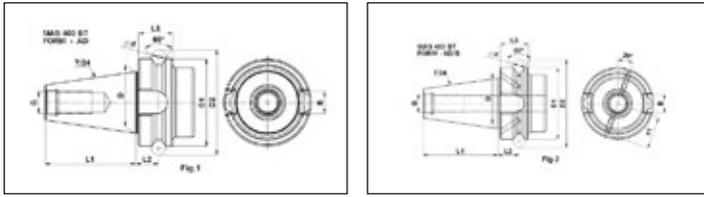
MAS BT (JIS 6339)

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MAS BT (JIS 6339)

Machine Design



Form AD & AD/B

Machine Design	TAPER ISO	D	D1	D2	L1	L2	L3	d	B	G	e1
BT30	30	31.75	46.0	56.14	48.4	13.6	22	8	16.1	M12	20
BT35	35	38.1	53.0	61.97	56.4	14.6	24	9	16.1	M12	-
BT40	40	44.45	63.0	75.68	65.4	16.6	27	10	16.1	M16	27
BT50	50	69.85	100.0	119.02	101.8	23.2	38	15	25.7	M24	42



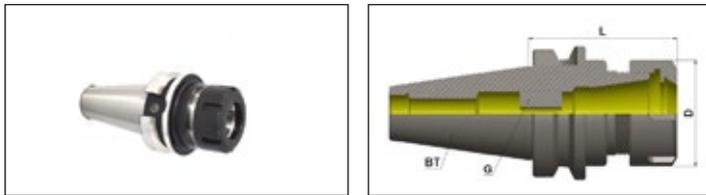
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 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

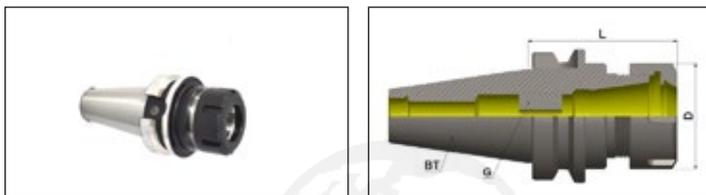
BT - Form AD - G6.3

BT 30 - Standard GPL



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1B301A-ERS16070	BT 30 AD ER 16 070	30	AD	ER 16	70	1-10	SCW7/16	28	F15500-16ERH	0.7	A
F1B301A-ERS20070	BT 30 AD ER 20 070	30	AD	ER 20	70	1-13	M14X1.5	35	F15500-20ERS	0.7	A
F1B301A-ERS25070	BT 30 AD ER 25 070	30	AD	ER 25	70	1-16	M14X1.5	42	F15500-25ERS	0.8	A
F1B301A-ERS32070	BT 30 AD ER 32 070	30	AD	ER 32	70	2-20	M14X1.5	50	F15500-32ERS	0.8	A

BT 40 - Standard GPL



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1B401A-ERS11070	BT 40 AD ER 11 070	40	AD	ER11	70	1-7	M6	19	F15500-11ERH	1.2	A
F1B401A-ERS16070	BT 40 AD ER 16 070	40	AD	ER16	70	1-10	SCW7/16	28	F15500-16ERH	1.2	A
F1B401A-ERS20070	BT 40 AD ER 20 070	40	AD	ER20	70	1-13	M14X1.5	35	F15500-20ERS	1.2	A
F1B401A-ERS25070	BT 40 AD ER 25 070	40	AD	ER25	70	1-16	M18X1.5	42	F15500-25ERS	1.3	A
F1B401A-ERS32070	BT 40 AD ER 32 070	40	AD	ER32	70	2-20	M22X1.5	50	F15500-32ERS	1.3	A
F1B401A-ERS40070	BT 40 AD ER 40 070	40	AD	ER40	70	3-26	M28X1.5	63	F15500-40ERS	1.4	A

BT 40 - GPL = 100 mm



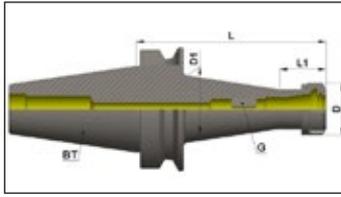
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1B401A-ERS16100	BT 40 AD ER 16 100	40	AD	ER16	100	1-10	SCW7/16	28	F15500-16ERH	1.4	A
F1B401A-ERS20100	BT 40 AD ER 20 100	40	AD	ER20	100	1-13	M14X1.5	35	F15500-20ERS	1.4	A
F1B401A-ERS25100	BT 40 AD ER 25 100	40	AD	ER25	100	1-16	M18X1.5	42	F15500-25ERS	1.4	A
F1B401A-ERS32100	BT 40 AD ER 32 100	40	AD	ER32	100	2-20	M22X1.5	50	F15500-32ERS	1.6	A
F1B401A-ERS40100	BT 40 AD ER 40 100	40	AD	ER40	100	3-26	M28X1.5	63	F15500-40ERS	1.9	A
F1B401A-ERS50100	BT 40 AD ER 50 100	40	AD	ER50	100	10-34	M22X1.5	78	F15500-50ERS	2.3	A

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



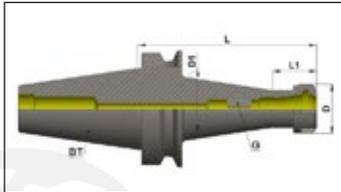
MAS BT (JIS 6339)

BT 40 - GPL = 160 mm



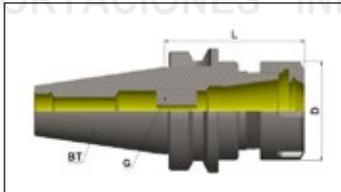
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	D1	L1	Nut	Kgs	Group
F1B401A-ERS16160	BT 40 AD ER 16 160	40	AD	ER 16	160	1-10	SCW7/16	28	28	31.6	F15500-16ERH	1.5	A
F1B401A-ERS20160	BT 40 AD ER 20 160	40	AD	ER 20	160	1-13	M14X1.5	35	34	32.5	F15500-20ERS	1.5	A
F1B401A-ERS25160	BT 40 AD ER 25 160	40	AD	ER 25	160	1-16	M18X1.5	42	40	37	F15500-25ERS	1.8	A
F1B401A-ERS32160	BT 40 AD ER 32 160	40	AD	ER 32	160	2-20	M22X1.5	50	48	33	F15500-32ERS	2	A
F1B401A-ERS40160	BT 40 AD ER 40 160	40	AD	ER 40	160	3-26	M28X1.5	63		-	F15500-40ERS	2	A

BT 40 - GPL = 200 mm



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	D1	L1	Nut	Kgs	Group
F1B401A-ERS16200	BT 40 AD ER 16 200	40	AD	ER16	200	1-10	SCW7/16	28	28	31.6	F15500-16ERH	1.7	A
F1B401A-ERS25200	BT 40 AD ER 25 200	40	AD	ER25	200	1-16	M18X1.5	42	40	37	F15500-25ERS	2.0	A
F1B401A-ERS32200	BT 40 AD ER 32 200	40	AD	ER32	200	2-20	M22X1.5	50	46	33	F15500-32ERS	2.2	A
F1B401A-ERS40200	BT 40 AD ER 40 200	40	AD	ER40	200	3-26	M28X1.5	63	-	-	F15500-40ERS	2.2	A

BT 50 - Standard GPL



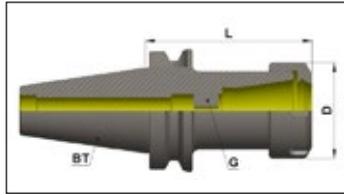
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1B501A-ERS16080	BT 50 AD ER 16 080	50	AD	ER16	80	1-10	SCW7/16	28	F15500-16ERH	3.8	A
F1B501A-ERS20080	BT 50 AD ER 20 080	50	AD	ER20	80	1-13	M14X1.5	35	F15500-20ERS	3.8	A
F1B501A-ERS25080	BT 50 AD ER 25 080	50	AD	ER25	80	1-16	M18X1.5	42	F15500-25ERS	3.8	A
F1B501A-ERS32080	BT 50 AD ER 32 080	50	AD	ER32	80	2-20	M22X1.5	50	F15500-32ERS	3.9	A
F1B501A-ERS40080	BT 50 AD ER 40 080	50	AD	ER40	80	3-26	M28X1.5	63	F15500-40ERS	4	A

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



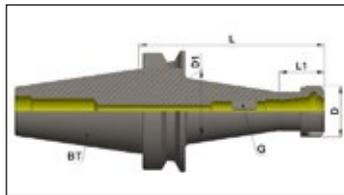
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BT 50 - GPL = 100 mm



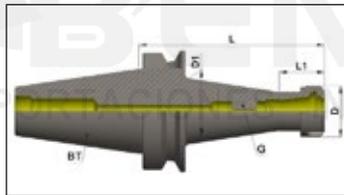
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1B501A-ERS16100	BT 50 AD ER 16 100	50	AD	ER16	100	1-10	SCW7/16	28	F15500-16ERH	4	A
F1B501A-ERS25100	BT 50 AD ER 25 100	50	AD	ER25	100	1-16	M18X1.5	42	F15500-25ERS	4.1	A
F1B501A-ERS32100	BT 50 AD ER 32 100	50	AD	ER32	100	2-20	M22x1.5	50	F15500-32ERS	4.3	A
F1B501A-ERS40100	BT 50 AD ER 40 100	50	AD	ER40	100	3-26	M28X1.5	63	F15500-40ERS	4.5	A

BT 50 - GPL = 160 mm



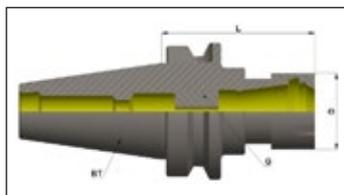
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	D1	L1	Nut	Kgs	Group
F1B501A-ERS16160	BT 50 AD ER 16 160	50	AD	ER16	160	1-10	SCW7/16	28	28	31.6	F15500-16ERH	4	A
F1B501A-ERS25160	BT 50 AD ER 25 160	50	AD	ER25	160	1-16	M18X1.5	42	40	37	F15500-25ERS	4.5	A
F1B501A-ERS32160	BT 50 AD ER 32 160	50	AD	ER32	160	2-20	M22X1.5	50	50	33	F15500-32ERS	5	A
F1B501A-ERS40160	BT 50 AD ER 40 160	50	AD	ER40	160	3-26	M28X1.5	63	63	40	F15500-40ERS	5	A

BT 50 - GPL = 200 mm



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	D1	L1	Nut	Kgs	Group
F1B501A-ERS16200	BT 50 AD ER 16 200	50	AD	ER16	200	1-10	SCW7/16	28	28	31.6	F15500-16ERH	4.2	A
F1B501A-ERS25200	BT50 AD ER 25 200	50	AD	ER25	200	1-16	M18X1.5	42	40	37	F15500-25ERS	4.7	A
F1B501A-ERS32200	BT 50 AD ER 32 200	50	AD	ER32	200	2-20	M22X1.5	50	50	33	F15500-32ERS	5.2	A
F1B501A-ERS40200	BT 50 AD ER 40 200	50	AD	ER40	200	3-26	M28X1.5	63	62	40	F15500-40ERS	5.2	A

BT40 - ER MINI - Standard GPL



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1B401A-ERM11070	BT40 AD ER MINI 11 070	40	AD	ER11	70	1-7	M6	16	F15500-11ERM	1.10	B
F1B401A-ERM16070	BT40 AD ER MINI 16 070	40	AD	ER16	70	1-10	SCW7/16	22	F15500-16ERM	1.02	B
F1B401A-ERM20070	BT40 AD ER MINI 20 070	40	AD	ER20	70	1-13	M14X1.5	28	F15500-20ERM	1.02	B
F1B401A-ERM25070	BT40 AD ER MINI 25 070	40	AD	ER25	70	1-16	M18X1.5	35	F15500-25ERM	1.04	B

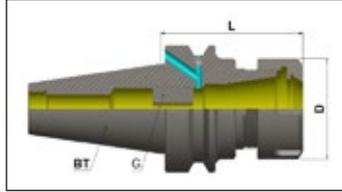
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

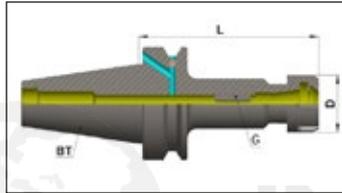
BT - Form AD/B - G6.3

BT 40 - Standard GPL



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1B409A-ERS16070	BT 40 ADB ER 16 070	40	AD/B	ER16	70	1-10	SCW7/16	28	F15500-16ERH	1.2	A
F1B409A-ERS20070	BT 40 AD/B ER 20 070	40	AD/B	ER20	70	1-13	M14X1.5	35	F15500-20ERS	1.2	A
F1B409A-ERS25070	BT 40 ADB ER 25 070	40	AD/B	ER25	70	1-16	M18X1.5	42	F15500-25ERS	1.3	A
F1B409A-ERS32070	BT 40 ADB ER 32 070	40	AD/B	ER32	70	2-20	M22X1.5	50	F15500-32ERS	1.3	A
F1B409A-ERS40070	BT 40 ADB ER 40 070	40	AD/B	ER40	70	3-26	M28X1.5	63	F15500-40ERS	1.4	A

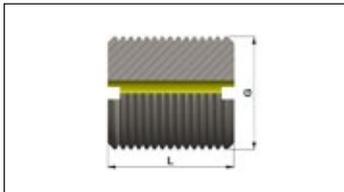
BT 40 - GPL = 100 mm



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1B409A-ERS16100	BT40 ADB ER 16 100	40	AD/B	ER16	100	1-10	SCW7/16	28	F15500-16ERH	4	A
F1B409A-ERS20100	BT40ADB ER 20 100	40	AD/B	ER20	100	1-13	M14X1.5	35	F15500-20ERS	1.4	A
F1B409A-ERS25100	BT40 ADB ER 25100	40	AD/B	ER25	100	1-16	M18X1.5	42	F15500-25ERS	1.4	A
F1B409A-ERS32100	BT40 ADB ER 32 100	40	ADB	ER32	100	2-20	M22X1.5	50	F15500-32ERS	1.6	A
F1B409A-ERS40100	BT40 ADB ER 40 100	40	AD/B	ER40	100	3-26	M28X1.5	63	F15500-40ERS	1.9	A

Spares

Stopper Screw



Part No.	G	L
F1SCWM-20M06	M6	20
F1SCWA-20U11	7/16	20
F1SCWM-20M14	M14	20
F1SCWM-20M18	M18	20
F1SCWM-20M22	M22	20
F1SCWM-20M28	M28	20

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

Accessories



For Further Details Please Refer Accessories Catalog.

ERS ER Collet Chuck

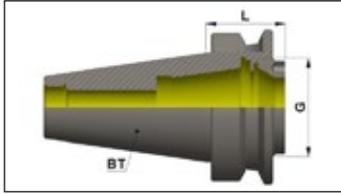


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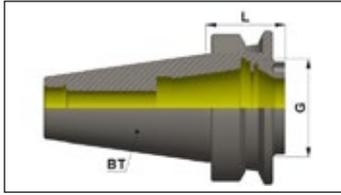
MAS BT (JIS 6339)

BT40 Form AD



Part No.	Product name	Taper	Form	Size	L	Clamping range	Nut	D	Kgs	Group
F1B401A-ERS32033	BT40 AD ER 32 033	40	AD	ER32	33	2-20	F15500-32SER	M40X1.5	1.0	A

BT50 Form AD



Part No.	Product name	Taper	Form	Size	L	Clamping range	D	Nut	Group	Kgs
F1B501A-ERS32040	BT50 AD ER 32 040	50	AD	ER32	40	2-20	M40X1.5	F15500-32SER	A	3.2
F1B501A-ERS40045	BT50 AD ER 40 045	50	AD	ER40	45	3-26	M50X1.5	F15500-40SER	A	3.2

Spares



Part No.	Product name	G	L
F15500-32SER	SHORT NUT SER32	M40X1.5	14
F15500-40SER	SHORT NUT SER40	M50X1.5	20

Accessories



For Further Details Please Refer Accessories Catalog.

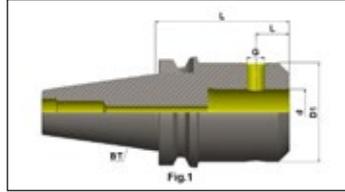
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

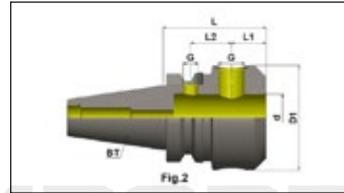
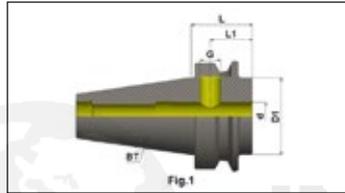
BT - Form AD - G6.3

BT 30 – Standard GPL



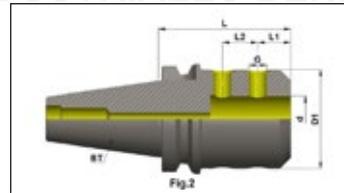
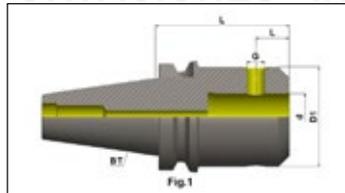
Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1B301A-EMH08050	BT 30 AD EM 08 050	30	AD	8	50	28	M8	18	-	1	0.7	A
F1B301A-EMH10050	BT 30 AD EM 10 050	30	AD	10	50	35	M10	20	-	1	0.7	A
F1B301A-EMH12055	BT 30 AD EM 12 055	30	AD	12	55	42	M12	22.5	-	1	0.7	A
F1B301A-EMH16063	BT 30 AD EM 16 063	30	AD	16	63	48	M14	24	-	1	0.8	A
F1B301A-EMH20063	BT 30 AD EM 20 063	30	AD	20	63	52	M16	25	-	1	1.3	A

BT 40 – Short GPL



Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1B401A-EMH16030	BT 40 AD EM 16 030	40	AD	16	30	40	M10	21	-	1	0.9	A
F1B401A-EMH20045	BT 40 AD EM 20 045	40	AD	20	45	50	M10	15	20	1	1	A
F1B401A-EMH25045	BT 40 AD EM 25 045	40	AD	25	45	50	M10	15	18	2	1	A

BT 40 – Standard GPL



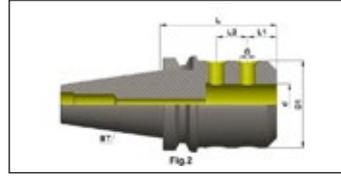
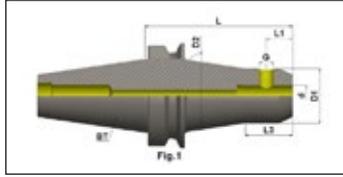
Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1B401A-EMH06050	BT 40 AD EM 06 050	40	AD	6	50	25	M6	18	-	1	1.2	A
F1B401A-EMH08050	BT 40 AD EM 08 050	40	AD	8	50	28	M8	18	-	1	1.2	A
F1B401A-EMH10063	BT 40 AD EM 10 063	40	AD	10	63	35	M10	20	-	1	1.2	A
F1B401A-EMH12063	BT 40 AD EM 12 063	40	AD	12	63	42	M12	22.5	-	1	1.3	A
F1B401A-EMH14063	BT 40 AD EM 14 063	40	AD	14	63	44	M12	22.5	-	1	1.3	A
F1B401A-EMH16063	BT 40 AD EM 16 063	40	AD	16	63	48	M14	24	-	1	1.3	A
F1B401A-EMH18063	BT 40 AD EM 18 063	40	AD	18	63	50	M14	24	-	1	1.4	A
F1B401A-EMH20063	BT 40 AD EM 20 063	40	AD	20	63	52	M16	25	-	1	2.2	A
F1B401A-EMH25090	BT 40 AD EM 25 090	40	AD	25	90	65	M18X2	24	25	2	2.3	A
F1B401A-EMH32100	BT 40 AD EM 32 100	40	AD	32	100	72	M20X2	24	28	2	2.5	A
F1B401A-EMH40105	BT 40 AD EM 40 105	40	AD	40	105	80	M20X2	30	32	2	4.5	A

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



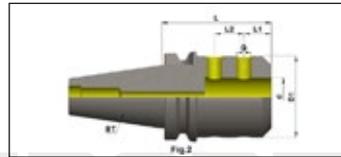
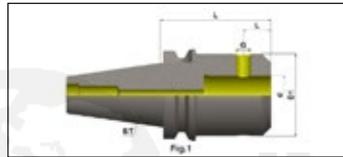
MAS BT (JIS 6339)

BT 40 - GPL = 160 mm



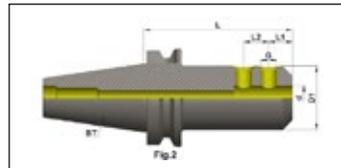
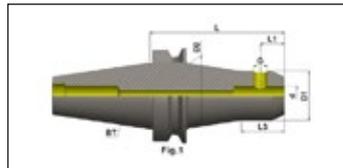
Part No.	Product name	Taper	Form	d.	L	D1	D2	G	L1	L2	L3	FIG	Kgs	Group
F1B401A-EMH06160	BT 40 AD EM 06 160	40	AD	6	160	25	35	M6	18	-	30	1	1.4	A
F1B401A-EMH08160	BT 40 AD EM 08 160	40	AD	8	160	28	38	M8	18	-	32	1	1.4	A
F1B401A-EMH10160	BT 40 AD EM 10 160	40	AD	10	160	35	40	M10	20	-	35	1	1.4	A
F1B401A-EMH12160	BT 40 AD EM 12 160	40	AD	12	160	42	-	M12	22.5	-	-	1	1.7	A
F1B401A-EMH14160	BT 40 AD EM 14 160	40	AD	14	160	44	-	M12	22.5	-	-	1	1.7	A
F1B401A-EMH16160	BT 40 AD EM 16 160	40	AD	16	160	48	-	M14	24	-	-	1	1.9	A
F1B401A-EMH18160	BT 40 AD EM 18 160	40	AD	18	160	50	-	M14	24	-	-	1	1.9	A
F1B401A-EMH20160	BT 40 AD EM 20 160	40	AD	20	160	52	-	M16	25	-	-	1	2.4	A
F1B401A-EMH25160	BT 40 AD EM 25 160	40	AD	25	160	65	-	M18X2	24	25	-	2	2.3	A

BT 50 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1B501A-EMH06065	BT 50 AD EM 06 065	50	AD	6	65	25	M6	18	-	1	3.7	A
F1B501A-EMH08065	BT 50 AD EM 08 065	50	AD	8	65	28	M8	18	-	1	3.7	A
F1B501A-EMH10065	BT 50 AD EM 10 065	50	AD	10	65	35	M10	20	-	1	3.7	A
F1B501A-EMH12080	BT 50 AD EM 12 080	50	AD	12	80	42	M12	22.5	-	1	4	A
F1B501A-EMH14080	BT 50 AD EM 14 080	50	AD	14	80	44	M12	22.5	-	1	4	A
F1B501A-EMH16080	BT 50 AD EM 16 080	50	AD	16	80	48	M14	24	-	1	4	A
F1B501A-EMH18080	BT 50 AD EM 18 080	50	AD	18	80	50	M14	24	-	1	4	A
F1B501A-EMH20080	BT 50 AD EM 20 080	50	AD	20	80	52	M16	25	-	1	4	A
F1B501A-EMH25100	BT 50 AD EM 25 100	50	AD	25	100	65	M18X2	24	25	2	4.3	A
F1B501A-EMH32105	BT 50 AD EM 32 105	50	AD	32	105	72	M20X2	24	28	2	4.5	A
F1B501A-EMH40115	BT 50 AD EM 40 115	50	AD	40	115	90	M20X2	30	32	2	5.8	A

BT 50 - GPL = 160 mm



Part No.	Product name	Taper	Form	d.	L	D1	D2	G	L1	L2	L3	FIG	Kgs	Group
F1B501A-EMH08160	BT 50 AD EM 08 160	50	AD	8	160	28	45	M8	18	-	32	1	4	A
F1B501A-EMH10160	BT 50 AD EM 10 160	50	AD	10	160	35	49	M10	20	-	35	1	4.1	A
F1B501A-EMH12160	BT 50 AD EM 12 160	50	AD	12	160	42	55	M12	22.5	-	35	1	4.6	A
F1B501A-EMH16160	BT 50 AD EM 16 160	50	AD	16	160	48	60	M14	24	-	40	1	4.6	A
F1B501A-EMH20160	BT 50 AD EM 20 160	50	AD	20	160	52	69	M16	25	-	45	1	5.3	A
F1B501A-EMH25160	BT 50 AD EM 25 160	50	AD	25	160	65	72	M18X2	24	25	62	2	5.2	A
F1B501A-EMH32160	BT 50 AD EM 32 160	50	AD	32	160	72	-	M20X2	24	28	-	2	5.9	A

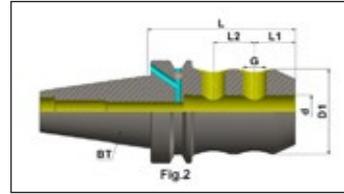
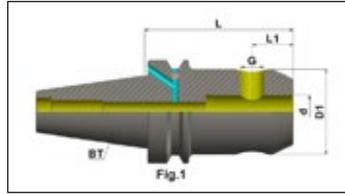
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

BT – Form AD/B – G6.3

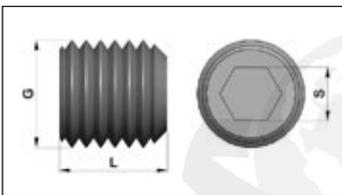
BT 40 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1B409A-EMH16063	BT 40 ADB EM 16 063	40	ADB	16	63	48	M14	24	-	1	1.3	A
F1B409A-EMH20063	BT 40 ADB EM 20 063	40	ADB	20	63	52	M16	25	-	1	1.7	A
F1B409A-EMH25090	BT 40 ADB EM 25 090	40	ADB	25	90	65	M18X2	24	25	2	2.3	A
F1B409A-EMH32100	BT 40 ADB EM 32 100	40	ADB	32	100	72	M20X2	24	28	2	2.5	A
F1B409A-EMH40105	BT 40 ADB EM 40 105	40	ADB	40	105	80	M20X2	30	32	2	4.5	A

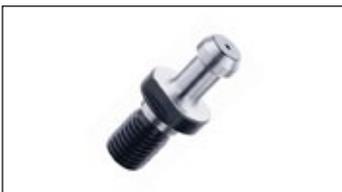
Spares

Grub Screw



Part No.	G	L	S
F1GSWD-10M06	M6	10	3
F1GSWD-10M08	M8	10	4
F1GSWD-12M10	M10	12	5
F1GSWD-16M12	M12	16	6
F1GSWD-16M14	M14	16	6
F1GSWD-16M16	M16	16	8
F1GSWD-20M18	M18	20	10
F1GSWD-20M20	M20	20	10
F1GSWD-25M24	M24	25	12

Accessories



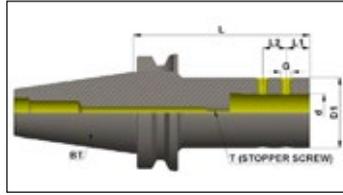
For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request



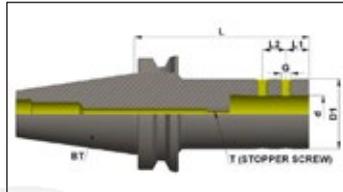
MAS BT (JIS 6339)

BT 40 - Form AD



Part No.	Product name	Taper	Form	d.	L	L1	L2	D1	G	T	Kgs	Group
F1B401A-SLA20090	BT40 AD SLA 20 090	40	AD	20	90	25	20	50	M10	M12	1.8	A
F1B401A-SLA25090	BT40 AD SLA 25 090	40	AD	25	90	25	20	50	M10	M12	1.7	A
F1B401A-SLA32090	BT40 AD SLA 32 090	40	AD	32	90	30	20	60	M10	M12	1.9	A
F1B401A-SLA40090	BT40 AD SLA 40 090	40	AD	40	90	30	20	63	M12	M12	1.8	A

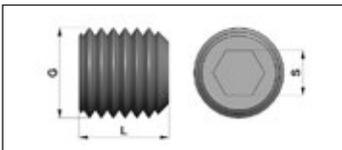
BT 50 - Form AD



Part No.	Product name	Taper	Form	d.	L	L1	L2	D1	G	T	Kgs	Group
F1B501A-SLA20100	BT50 AD SLA 20 100	50	AD	20	100	25	20	50	M10	M12	3.9	A
F1B501A-SLA25100	BT50 AD SLA 25 100	50	AD	25	100	25	20	50	M10	M12	4.3	A
F1B501A-SLA32100	BT50 AD SLA 32 100	50	AD	32	100	30	20	60	M10	M12	4.5	A
F1B501A-SLA40100	BT50 AD SLA 40 100	50	AD	40	100	30	20	70	M12	M12	5.9	A

Spares

Grub Screw



Part No.	G	L	S
F1GSWD-10M06	M6	10	3
F1GSWD-10M08	M8	10	4
F1GSWD-12M10	M10	12	5
F1GSWD-16M12	M12	16	6
F1GSWD-16M14	M14	16	6
F1GSWD-16M16	M16	16	8
F1GSWD-20M18	M18	20	10
F1GSWD-20M20	M20	20	10
F1GSWD-25M24	M24	25	12

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

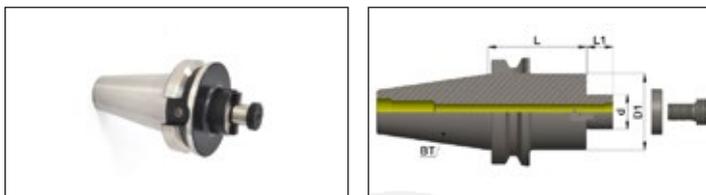
BT - Form AD - G6.3

BT 30 - Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1B301A-SMS16050	BT30 AD SMS 16 050	30	AD	16	50	17	34	40	0.6	A
F1B301A-SMS22050	BT30 AD SMS 22 050	30	AD	22	50	19	48	50 & 63	0.8	A
F1B301A-SMS27050	BT30 AD SMS 27 050	30	AD	27	50	21	60	80	1	A

BT 40 - Standard GPL



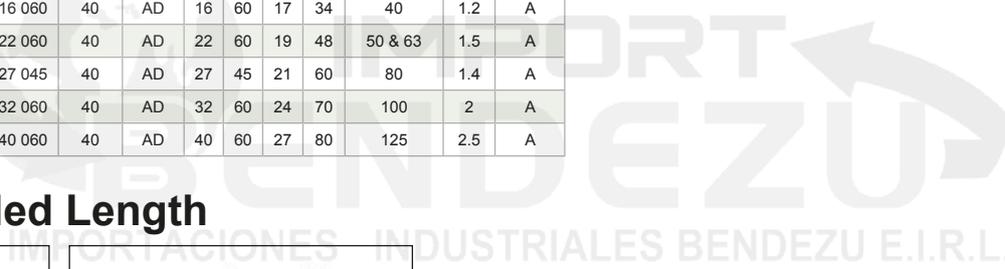
Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1B401A-SMS16060	BT40 AD SMS 16 060	40	AD	16	60	17	34	40	1.2	A
F1B401A-SMS22060	BT40 AD SMS 22 060	40	AD	22	60	19	48	50 & 63	1.5	A
F1B401A-SMS27045	BT40 AD SMS 27 045	40	AD	27	45	21	60	80	1.4	A
F1B401A-SMS32060	BT40 AD SMS 32 060	40	AD	32	60	24	70	100	2	A
F1B401A-SMS40060	BT40 AD SMS 40 060	40	AD	40	60	27	80	125	2.5	A

BT 40 - Extended Length



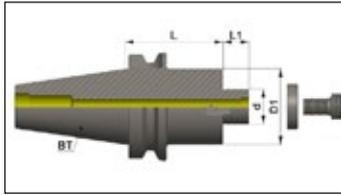
Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1B401A-SMS16120	BT40 AD SMS 16 120	40	AD	16	120	17	34	40	1.7	A
F1B401A-SMS22120	BT40 AD SMS 22 120	40	AD	22	120	19	48	50 & 63	2.3	A
F1B401A-SMS27120	BT40 AD SMS 27 120	40	AD	27	120	21	60	80	3	A

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



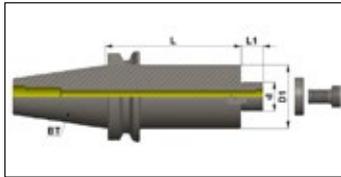
MAS BT (JIS 6339)

BT 50 - Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1B501A-SMS22060	BT50 AD SMS 22 060	50	AD	22	60	19	48	50 & 63	4.2	A
F1B501A-SMS27060	BT50 AD SMS 27 060	50	AD	27	60	21	60	80	4.2	A
F1B501A-SMS32060	BT50 AD SMS 32 060	50	AD	32	60	24	70	100	4.4	A
F1B501A-SMS40060	BT50 AD SMS 40 060	50	AD	40	60	27	80	125	4.8	A

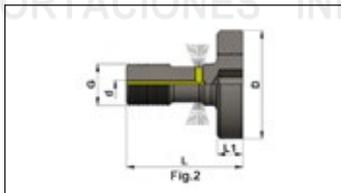
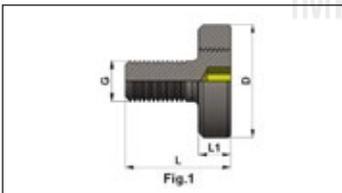
BT 50 - Extended Length



Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1B501A-SMS22120	BT50 AD SMS 22 120	50	AD	22	120	19	48	50 & 63	4.9	A
F1B501A-SMS27105	BT50 AD SMS 27 105	50	AD	27	105	21	60	80	5.2	A
F1B501A-SMS32100	BT50 AD SMS 32 100	50	AD	32	100	24	70	100	6.0	A
F1B501A-SMS40105	BT50 AD SMS 40 105	50	AD	40	105	27	80	125	6.6	A

Spares

Cutter Clamping Screw



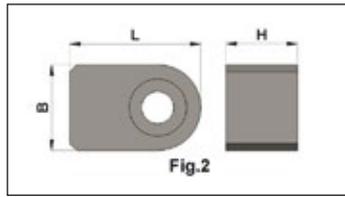
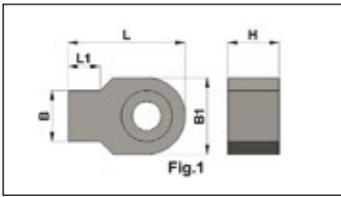
Part No.	D	L	L1	G	d.	Allen Key	FIG	Remarks
F1CCSN-16M08	20	23	7	M8	-	5mm	1	NORMAL
F1CCSN-22M10	28	26	8	M10	-	6mm	1	NORMAL
F1CCSN-27M12	35	31	9	M12	-	8mm	1	NORMAL
F1CCSN-32M16	42	36	10	M16	-	10mm	1	NORMAL
F1CCSN-40M20	52	41	11	M20	-	12mm	1	NORMAL
F1CCSN-50M24	75	49	13	M24	-	14mm	1	NORMAL
F1CCSN-60M30	75	60	15	M30	-	17mm	1	NORMAL
F1CCST-16M08	20	32	7	M8	2.5	5mm	2	THRU COOLANT
F1CCST-22M10	28	33	8	M10	3.2	6mm	2	THRU COOLANT
F1CCST-27M12	35	44	9	M12	3.2	8mm	2	THRU COOLANT
F1CCST-32M16	42	45	10	M16	3.2	10mm	2	THRU COOLANT
F1CCST-40M20	52	51	11	M20	3.2	12mm	2	THRU COOLANT

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

Driving Key



Part No.	Product name	B	b1	L	L1	H	Allen Screw	FIG
F1DRKY-08S16	DRIVING KEY 08 16	8	12	17.5	5	8	M4	1
F1DRKY-10S22	DRIVING KEY 10 22	10	12	18.3	7.5	10	M4	1
F1DRKY-12S27	DRIVING KEY 12 27	12	-	18.3	-	10	M4	2
F1DRKY-14S32	DRIVING KEY 14 32	14	-	24	-	13	M5	2
F1DRKY-16S40	DRIVING KEY 16 40	16	-	24	-	16	M6	2

Accessories



For Further Details Please Refer Accessories Catalog.



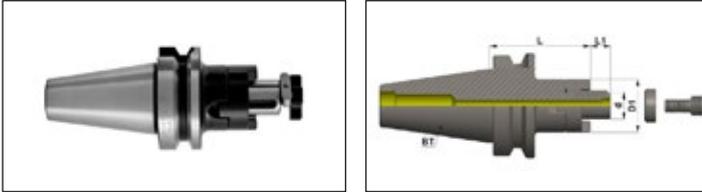
Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

BT - Form AD - G6.3

BT 40 - Standard GPL



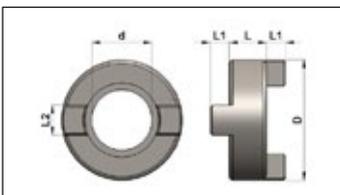
Part No.	Product name	Taper	Form	d.	L	L1	D1	Kgs	Group
F1B401A-CMH16055	BT40 AD CMH 16 055	40	AD	16	55	17	32	1.1	A
F1B401A-CMH22055	BT40 AD CMH 22 055	40	AD	22	55	19	40	1.4	A
F1B401A-CMH27055	BT40 AD CMH 27 055	40	AD	27	55	21	48	1.6	A
F1B401A-CMH32060	BT40 AD CMH 32 060	40	AD	32	60	24	58	2.2	A
F1B401A-CMH40060	BT40 AD CMH 40 060	40	AD	40	60	27	70	2.7	A

BT 50 - Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Kgs	Group
F1B501A-CMH22070	BT50 AD CMH 22 070	50	AD	22	70	19	40	3.4	A
F1B501A-CMH27070	BT50 AD CMH 27 070	50	AD	27	70	21	48	3.6	A
F1B501A-CMH32070	BT50 AD CMH 32 070	50	AD	32	70	24	58	4	A
F1B501A-CMH40070	BT50 AD CMH 40 070	50	AD	40	70	27	70	5	A

Spares Drive Ring

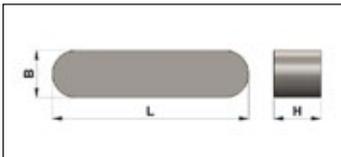


Part No.	d.	D	L	L1	L2
F1DRRG-CMH16	16	32	10	5	8
F1DRRG-CMH22	22	40	12	5.6	10
F1DRRG-CMH27	27	48	12	6.3	12
F1DRRG-CMH32	32	58	14	7	14
F1DRRG-CMH40	40	70	14	8	16

Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request

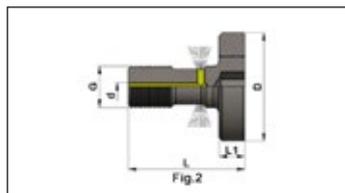
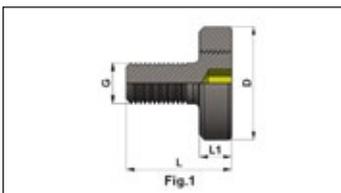
MAS BT (JIS 6339)

Parallel Key



Part No.	Product name	d.	B	H	L
F1PLKY-04020	PARALLEL KEY 4x20	16	4	4	20
F1PLKY-06025	PARALLEL KEY 6x25	22	6	6	25
F1PLKY-07025	PARALLEL KEY 7x25	27	7	7	25
F1PLKY-08028	PARALLEL KEY 8x28	32	8	7	28
F1PLKY-10032	PARALLEL KEY 10x32	40	10	8	32

Cutter Clamping Screw



Part No.	D	L	L1	G	d.	Allen Key	FIG	Remarks
F1CCSN-16M08	20	23	7	M8	-	5mm	1	NORMAL
F1CCSN-22M10	28	26	8	M10	-	6mm	1	NORMAL
F1CCSN-27M12	35	31	9	M12	-	8mm	1	NORMAL
F1CCSN-32M16	42	36	10	M16	-	10mm	1	NORMAL
F1CCSN-40M20	52	41	11	M20	-	12mm	1	NORMAL
F1CCSN-50M24	75	49	13	M24	-	14mm	1	NORMAL
F1CCSN-60M30	75	60	15	M30	-	17mm	1	NORMAL
F1CCST-16M08	20	32	7	M8	2.5	5mm	2	THRU COOLANT
F1CCST-22M10	28	33	8	M10	3.2	6mm	2	THRU COOLANT
F1CCST-27M12	35	44	9	M12	3.2	8mm	2	THRU COOLANT
F1CCST-32M16	42	45	10	M16	3.2	10mm	2	THRU COOLANT
F1CCST-40M20	52	51	11	M20	3.2	12mm	2	THRU COOLANT

Accessories



For Further Details Please Refer Accessories Catalog.

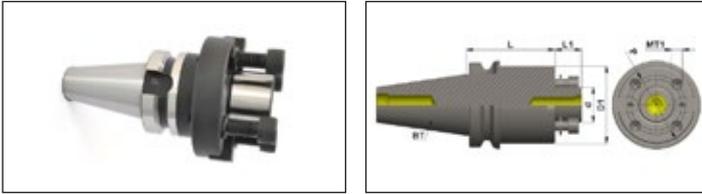
Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

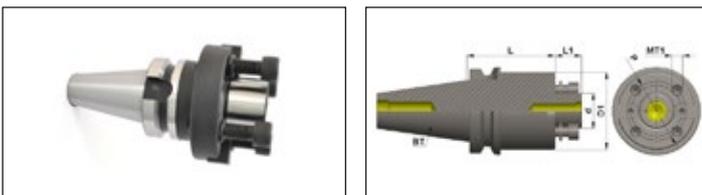
BT - Form A

BT 40 - Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	P	T1	Kgs	Group
F1B405X-FMH40060	BT40 A FMH 40 060	40	A	40	60	30	88	66.7	M12	2.6	B

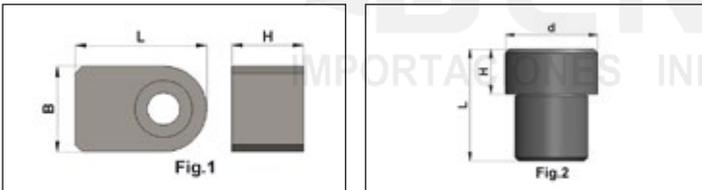
BT 50 - Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	P	T1	Kgs	Group
F1B505X-FMH40075	BT50 A FMH 40 075	50	A	40	75	30	88	66.7	M12	5.7	B
F1B505X-FMH60075	BT50 A FMH 60 075	50	A	60	75	40	128	101.6	M16	7.6	B

Spares

Driving Key



Part No.	B	d.	H	L	Allen Screw	FIG
F1DRKY-40FMH	16	-	16	24	M6	1
F1DRKY-60FMH	-	25.4	12.5	27.5	M6	2

Accessories



For Further Details Please Refer Accessories Catalog.

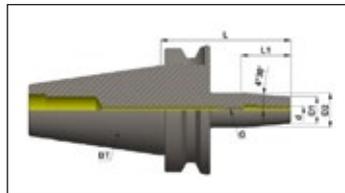
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 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

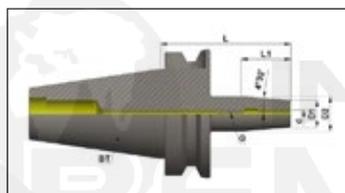
BT - Form AD - G6.3

BT 40 - Standard GPL



Part No.	Product name	Taper	Form	d.	L	D1	D2	L1	G	Kgs	Group
F1B401A-SFC06120	BT40 AD SFC 06 120	40	AD	6	120	21	27	36	M5	1.3	A
F1B401A-SFC08120	BT40 AD SFC 08 120	40	AD	8	120	21	27	36	M6	1.3	A
F1B401A-SFC10120	BT40 AD SFC 10 120	40	AD	10	120	24	32	42	M8X1	1.4	A
F1B401A-SFC12120	BT40 AD SFC 12 120	40	AD	12	120	24	32	47	M10X1	1.4	A
F1B401A-SFC14120	BT40 AD SFC 14 120	40	AD	14	120	27	34	47	M10X1	1.5	A
F1B401A-SFC16120	BT40 AD SFC 16 120	40	AD	16	120	27	34	50	M12X1	1.4	A
F1B401A-SFC18120	BT40 AD SFC 18 120	40	AD	18	120	33	42	50	M12X1	1.7	A
F1B401A-SFC20120	BT40 AD SFC 20 120	40	AD	20	120	33	42	52	M16X1	1.6	A
F1B401A-SFC25120	BT40 AD SFC 25 120	40	AD	25	100	44	53	58	M16X1	2.0	A

BT 50 - Standard GPL



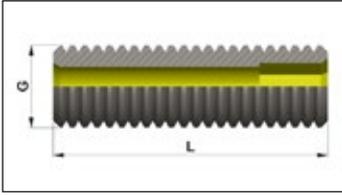
Part No.	Product name	Taper	Form	d.	L	D1	D2	L1	G	Kgs	Group
F1B501A-SFC06100	BT50 AD SFC 06 100	50	AD	6	100	21	27	36	M5	3.8	A
F1B501A-SFC08100	BT50 AD SFC 08 100	50	AD	8	100	21	27	36	M6	3.9	A
F1B501A-SFC10100	BT50 AD SFC 10 100	50	AD	10	100	24	32	42	M8X1	3.9	A
F1B501A-SFC12100	BT50 AD SFC 12 100	50	AD	12	100	24	32	47	M10X1	3.9	A
F1B501A-SFC14100	BT50 AD SFC 14 100	50	AD	14	100	27	34	47	M10X1	4	A
F1B501A-SFC16100	BT50 AD SFC 16 100	50	AD	16	100	27	34	50	M12X1	4	A
F1B501A-SFC18100	BT50 AD SFC 18 100	50	AD	18	100	33	42	50	M12X1	4.1	A
F1B501A-SFC20100	BT50 AD SFC 20 100	50	AD	20	100	33	42	52	M16X1	4.1	A
F1B501A-SFC25100	BT50 AD SFC 25 100	50	AD	25	100	44	53	58	M16X1	4.3	A
F1B501A-SFC32100	BT50 AD SFC 32 100	50	AD	32	100	44	53	58	M16X1	4.1	A

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

Spares



Part No.	G	L
F1SCWM-20M06	M6	20
F1SCWM-20M08	M8	20
F1SCWM-20M10	M10	20
F1SCWM-20M12	M12	20
F1SCWM-20M16	M16	20

Accessories



For Further Details Please Refer Accessories Catalog.



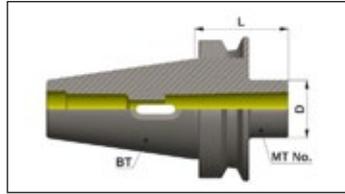
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MAS BT (JIS 6339)

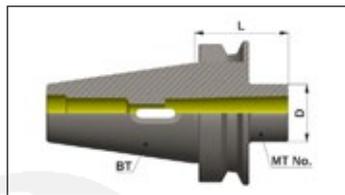
BT - Form AD - G6.3

BT 30 - Standard GPL



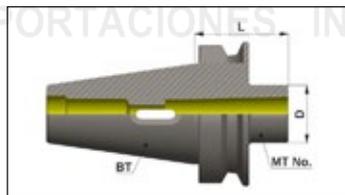
Part No.	Product name	Taper	MT No.	Form	L	D1	Kgs	Group
F1B301A-MTA01050	BT30 MTA 01 050	30	1	AD	50	25	0.4	A
F1B301A-MTA02062	BT30 MTA 02 062	30	2	AD	62	32	0.5	A
F1B301A-MTA03080	BT30 MTA 03 080	30	3	AD	80	40	0.7	A

BT 40 - Standard GPL



Part No.	Product name	Taper	Form	MT No.	L	D1	Kgs	Group
F1B401A-MTA01045	BT40 AD MTA 01 045	40	AD	1	45	25	1	A
F1B401A-MTA02060	BT40 AD MTA 02 060	40	AD	2	60	32	1	A
F1B401A-MTA03075	BT40 AD MTA 03 075	40	AD	3	75	40	1.1	A
F1B401A-MTA04095	BT40 AD MTA 04 095	40	AD	4	95	48	1.3	A

BT 50 - Standard GPL



Part No.	Product name	Taper	Form	MT No.	L	D1	Kgs	Group
F1B501A-MTA01045	BT50 MTA 01 045	50	AD	1	45	25	3.5	A
F1B501A-MTA02045	BT50 MTA 02 045	50	AD	2	45	32	3.5	A
F1B501A-MTA03045	BT50 MTA 03 045	50	AD	3	45	40	3.5	A
F1B501A-MTA04095	BT50 MTA 04 095	50	AD	4	95	48	3.7	A
F1B501A-MTA05105	BT50 MTA 05 105	50	AD	5	105	70	4	A

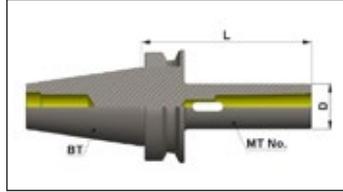
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



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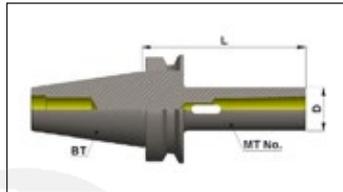
BT - Form A

BT 40 - Extended Length



Part No.	Product name	Taper	Form	MT No.	L	D1	Kgs	Group
F1B405A-MTA01120	BT40 MTA 01 120	40	A	1	120	25	1.3	A
F1B405A-MTA02120	BT40 MTA 02 120	40	A	2	120	32	1.4	A
F1B405A-MTA03135	BT40 MTA 03 135	40	A	3	135	40	1.7	A

BT 50 - Extended Length



Part No.	Product name	Taper	Form	MT No.	L	D1	Kgs	Group
F1B505A-MTA01120	BT50 MTA 01 120	50	A	1	120	25	3.9	A
F1B505A-MTA02135	BT50 MTA 02 135	50	A	2	135	32	4	A
F1B505A-MTA03150	BT50 MTA 03 150	50	A	3	150	40	4.3	A

Accessories



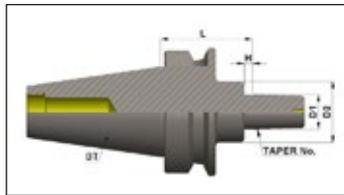
For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request

MAS BT (JIS 6339)

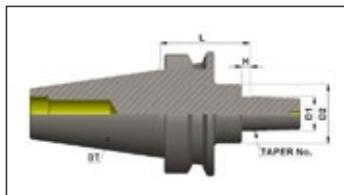
BT - Form A

BT 40 - Standard GPL



Part No.	Product name	Taper	Form	Taper No.	L	Clamping range	D1	D2	H	Kgs	Group
F1B405X-JTA06045	BT40 A JTA 06 045	40	A	JTA6	45	0.8-13	30	17.17	3.2	1.1	A
F1B405X-DCB16045	BT40 A B16 045	40	A	B16	45	0.8-13	30	15.73	4	1.1	A

BT 50 - Standard GPL



Part No.	Product name	Taper	Form	Taper No.	L	Clamping range	D1	D2	H	Kgs	Group
F1B505X-JTA06045	BT50 A JTA 06 045	50	A	JTA6	45	0.8-13	30	17.17	3.2	3.7	A
F1B505X-DCB16045	BT50 A B16 045	50	A	B16	45	0.8-13	30	15.73	4	3.7	A

Accessories



For Further Details Please Refer Accessories Catalog.

IMPORT
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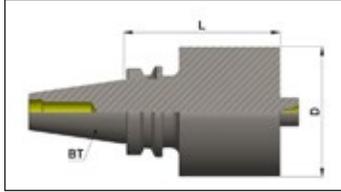
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Fine balancing G2.5@25000 RPM on request



MAS BT (JIS 6339)

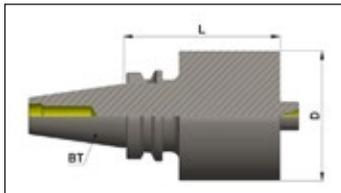
BT - Form A

BT 40 - Standard GPL



Part No.	Product name	Taper	Form	D	L	Kgs	Group
F1B405X-BLA063250	BT40 A BLANK 063 250	40	A	63	250	6.5	B
F1B405X-BLA080250	BT40 A BLANK 080 250	40	A	80	250	9.6	B

BT 50 - Standard GPL



Part No.	Product name	Taper	Form	D	L	Kgs	Group
F1B505X-BLA080250	BT50 A BLANK 080 250	50	A	80	250	12	B
F1B505X-BLA100300	BT50 A BLANK 100 300	50	A	100	300	19.5	B

Accessories



For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request





DIN 2080



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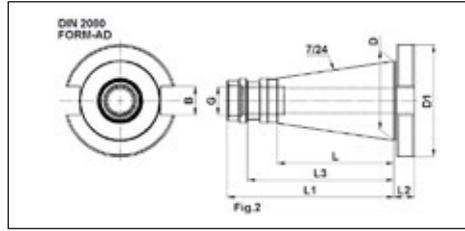
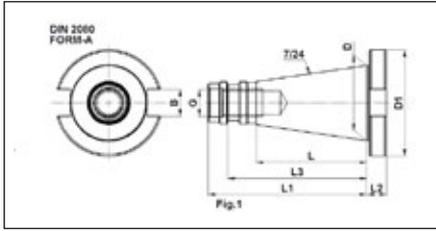
ISO – Form AD.....

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Machine Design



Form A & AD

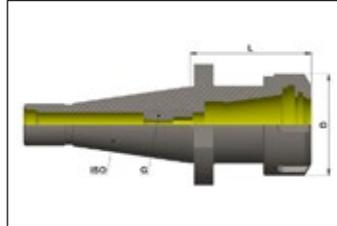
Machine Design	TAPER ISO	D	D1	L	L1	L2	L3	B	G
ISO30	30	31.75	50	48.4	68.4	9.6	-	16.1	M12
ISO40	40	44.45	63	65.4	93.4	11.6	82	16.1	M16
ISO50	50	69.85	97.5	102.0	126.8	15.2	115	25.7	M24



DIN 2080

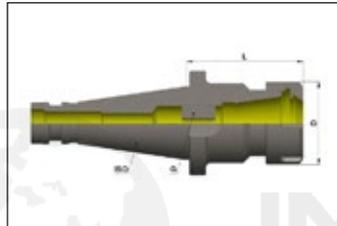
ISO – Form AD

ISO 30 – Standard GPL



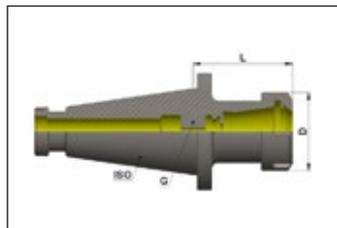
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1D301A-ERS25050	ISO 30 AD ER 25 050	30	AD	ER25	50	1.0 – 16.0	M12	42	F15500-25ERS	0.7	B
F1D301A-ERS32070	ISO 30 AD ER 32 070	30	AD	ER32	70	2.0 – 20.0	M12	50	F15500-32ERS	0.7	B

ISO 40 – Standard GPL



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1D401A-ERS25050	ISO 40 AD ER 25 050	40	AD	ER25	50	1.0 – 16.0	M18X1.5	42	F15500-25ERS	1	B
F1D401A-ERS32070	ISO 40 AD ER 32 070	40	AD	ER32	70	2.0 – 20.0	M22X1.5	50	F15500-32ERS	1.3	B
F1D401A-ERS40070	ISO 40 AD ER 40 070	40	AD	ER40	70	3.0 – 26.0	M28X1.5	63	F15500-40ERS	1.3	B

ISO 50 – Standard GPL



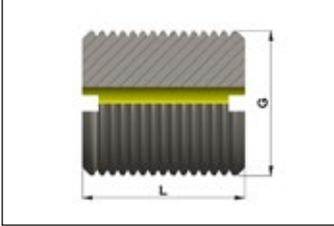
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1D501A-ERS32080	ISO 50 AD ER 32 080	50	AD	ER32	80	2.0 – 20.0	M22X1.5	50	F15500-32ERS	3.3	B
F1D501A-ERS40080	ISO 50 AD ER 40 080	50	AD	ER40	80	3.0 – 26.0	M28X1.5	63	F15500-40ERS	3.3	B

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DIN 2080

Spares

Stopper Screw



Part No.	L	G
F1SCWA-20U11	20	7/16
F1SCWM-20M06	20	M6
F1SCWM-20M14	20	M14
F1SCWM-20M18	20	M18
F1SCWM-20M22	20	M22
F1SCWM-20M28	20	M28

Accessories

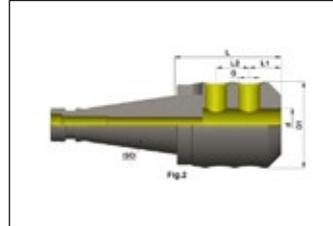
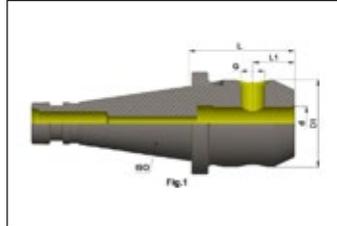


For Further Details Please Refer Accessories Catalog.

DIN 2080

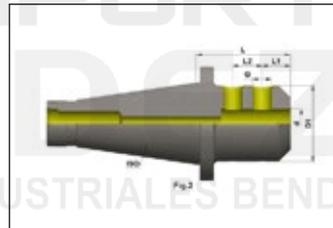
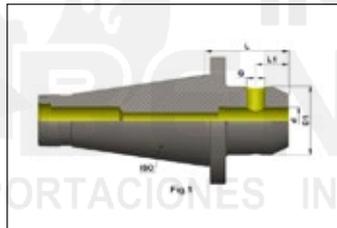
ISO – Form AD

ISO 40 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	Kgs	Group
F1D401A-EMH10050	ISO40 AD EM 10 050	40	AD	10	50	35	M10	20	-	1.2	B
F1D401A-EMH12050	ISO40 AD EM 12 050	40	AD	12	50	42	M12	22.5	-	1.2	B
F1D401A-EMH14050	ISO40 AD EM 14 050	40	AD	14	50	44	M12	22.5	-	1.4	B
F1D401A-EMH16063	ISO40 AD EM 16 063	40	AD	16	63	48	M14	24	-	1.4	B
F1D401A-EMH18063	ISO40 AD EM 18 063	40	AD	18	63	50	M14	24	-	1.5	B
F1D401A-EMH20063	ISO40 AD EM 20 063	40	AD	20	63	52	M16	25	-	1.6	B
F1D401A-EMH25080	ISO40 AD EM 25 080	40	AD	25	80	65	M18X2	24	25	1.6	B
F1D401A-EMH32080	ISO40 AD EM 32 080	40	AD	32	80	72	M20X2	24	28	2.2	B
F1D401A-EMH40090	ISO40 AD EM 40 090	40	AD	40	90	80	M20X2	30	32	3.7	B

ISO 50 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	Kgs	Group
F1D501A-EMH10063	ISO50 AD EM 10 063	50	AD	10	63	35	M10	20	-	3.7	B
F1D501A-EMH12063	ISO50 AD EM 12 063	50	AD	12	63	42	M12	22.5	-	3.7	B
F1D501A-EMH14063	ISO50 AD EM 14 063	50	AD	14	63	44	M12	22.5	-	3.8	B
F1D501A-EMH16063	ISO50 AD EM 16 063	50	AD	16	63	48	M14	24	-	3.8	B
F1D501A-EMH18063	ISO50 AD EM 18 063	50	AD	18	63	50	M14	24	-	3.8	B
F1D501A-EMH20063	ISO50 AD EM 20 063	50	AD	20	63	52	M16	25	-	3.8	B
F1D501A-EMH25080	ISO50 AD EM 25 080	50	AD	25	80	65	M18X2	24	25	4	B
F1D501A-EMH32080	ISO50 AD EM 32 080	50	AD	32	80	72	M20X2	24	28	4.3	B
F1D501A-EMH40090	ISO50 AD EM 40 090	50	AD	40	90	90	M20X2	30	32	6.2	B

EMH End Mill Holder (DIN 1835 - B)

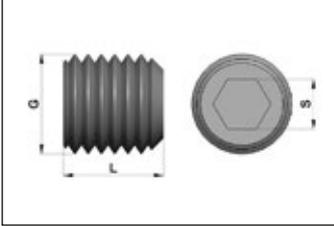
IMPORTACIONES INDUSTRIALES BENDEZU E.I.R.L.



DIN 2080

Spares

Grub Screw



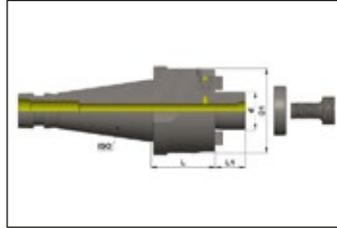
Part No.	G	L	S
F1GSWD-10M06	M6	10	3
F1GSWD-10M08	M8	10	4
F1GSWD-12M10	M10	12	5
F1GSWD-16M12	M12	16	6
F1GSWD-16M14	M14	16	6
F1GSWD-16M16	M16	16	8
F1GSWD-20M18	M18	20	10
F1GSWD-20M20	M20	20	10
F1GSWD-25M24	M24	25	12



DIN 2080

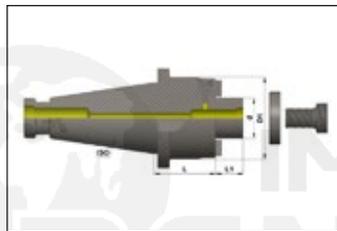
ISO – Form AD

ISO 40 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1D401A-SMS22045	ISO 40 AD SMS 22 045	40	AD	22	45	19	48	50 & 63	1.5	B
F1D401A-SMS27045	ISO 40 AD SMS 27 045	40	AD	27	45	21	60	80	1.6	B
F1D401A-SMS32045	ISO 40 AD SMS 32 045	40	AD	32	45	24	70	100	2.3	B
F1D401A-SMS40060	ISO 40 AD SMS 40 060	40	AD	40	60	27	80	125	2.7	B

ISO 50 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1D501A-SMS22045	ISO 50 AD SMS 22 045	50	AD	22	45	19	48	50 & 63	3.5	B
F1D501A-SMS27045	ISO 50 AD SMS 27 045	50	AD	27	45	21	60	80	4.2	B
F1D501A-SMS32045	ISO 50 AD SMS 32 045	50	AD	32	45	24	70	100	4.2	B
F1D501A-SMS40060	ISO 50 AD SMS 40 060	50	AD	40	60	27	80	125	5.3	B

Spares

Cutter Clamping Screw

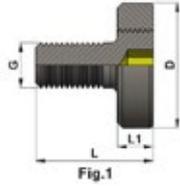


Fig.1

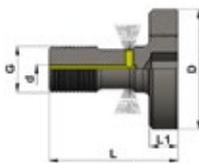


Fig.2

Part No.	D	L	L1	G	d.	Allen Key	FIG	Remarks
F1CCSN-22M10	28	26	8	M10	-	6mm	1	NORMAL
F1CCSN-16M08	20	23	7	M8	-	5mm	1	NORMAL
F1CCSN-27M12	35	31	9	M12	-	8mm	1	NORMAL
F1CCSN-32M16	42	36	10	M16	-	10mm	1	NORMAL
F1CCSN-40M20	52	41	11	M20	-	12mm	1	NORMAL
F1CCSN-60M30	75	60	15	M30	-	17mm	1	NORMAL
F1CCSN-50M24	75	49	13	M24	-	14mm	1	NORMAL
F1CCST-22M10	28	33	8	M10	3.2	6mm	2	THRU COOLANT
F1CCST-16M08	20	32	7	M8	2.5	5mm	2	THRU COOLANT
F1CCST-27M12	35	44	9	M12	3.2	8mm	2	THRU COOLANT
F1CCST-32M16	42	45	10	M16	3.2	10mm	2	THRU COOLANT
F1CCST-40M20	52	51	11	M20	3.2	12mm	2	THRU COOLANT

Driving Key

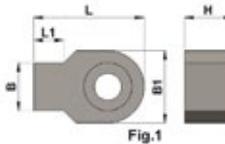


Fig.1



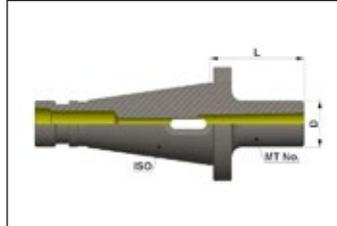
Fig.2

Part No.	Product name	B	b1	L	L1	H	Allen Screw	FIG
F1DRKY-08S16	DRIVING KEY 08 16	8	12	17.5	5	8	M4	1
F1DRKY-10S22	DRIVING KEY 10 22	10	12	18.3	7.5	10	M4	1
F1DRKY-12S27	DRIVING KEY 12 27	12	-	18.3	-	10	M4	2
F1DRKY-14S32	DRIVING KEY 14 32	14	-	24	-	13	M5	2
F1DRKY-16S40	DRIVING KEY 16 40	16	-	24	-	16	M6	2

DIN 2080

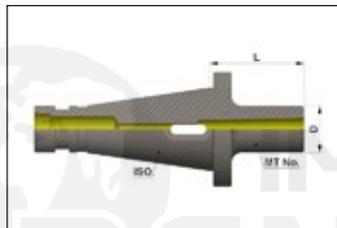
ISO – Form AD

ISO 40 – Standard GPL



Part No.	Product name	Taper	Form	MT No.	L	D	Kgs	Group
F1D401A-MTA01050	ISO40 AD MTA 01 050	40	AD	1	50	25	1	B
F1D401A-MTA02050	ISO40 AD MTA 02 050	40	AD	2	50	32	1	B
F1D401A-MTA03065	ISO40 AD MTA 03 065	40	AD	3	65	40	1.2	B
F1D401A-MTA04095	ISO40 AD MTA 04 095	40	AD	4	95	48	1.4	B

ISO 50 – Standard GPL



Part No.	Product name	Taper	Form	MT No.	L	D	Kgs	Group
F1D505A-MTA01045	ISO50 AD MTA 01 045	50	AD	1	45	25	2.6	B
F1D501A-MTA02060	ISO50 AD MTA 02 060	50	AD	2	60	32	2.7	B
F1D501A-MTA03065	ISO50 AD MTA 03 065	50	AD	3	65	40	2.7	B
F1D501A-MTA04070	ISO50 AD MTA 04 070	50	AD	4	70	48	3	B
F1D501A-MTA05105	ISO50 AD MTA 05 105	50	AD	5	105	70	3.5	B





Falcon®

HSK (DIN 69893)



HSK (DIN 69893)

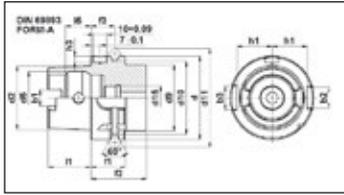
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Spares	
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HSK (DIN 69893)

Machine Design

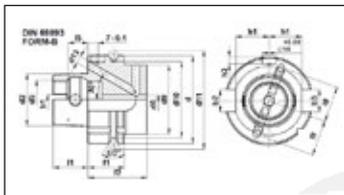
HSK Form A



Standard type for use on milling machines and machining centres with automatic tool change. Also suitable for manual tool change.

HSK - d	b1 ±0.04	b2 H10	b3 H10	d2.	d5	d9 max	d10 -0.1	d11 -0.1	d15	f1 -0.1	f2 min	f3 ±0.1	h1 -0.2	h3 +0.2	l1 -0.2	l5 JS10
50	10.54	12	14	38.009	29	40	43	59.30	M16X1	26	42	18	21.0	5.1	25	14.13
63	12.54	16	18	48.010	37	50	55	72.30	M18X1	26	42	18	26.5	5.0	32	18.13
100	20.02	20	22	75.013	58	80	92	109.75	M24X1.5	29	45	20	44.0	4.9	50	28.56

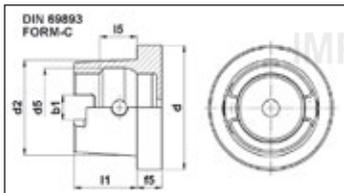
HSK Form B



Coolant supply through the flange
Enlarged flange diameter for rigidity
Drive slots are in the flange
For use on milling machines and lathes
Machining centres with automatic tool change

HSK - d	b1 ±0.04	b2 H10	b3 H10	d2.	d5	d9 max	d10 -0.1	d11 -0.1	d13	d6 max	f1 -0.1	f2 min	f3 ±0.1	h1 -0.2	h3 +0.2	l1 -0.2	l5 JS10	l9 -0.2
63	10.54	16	18	38.009	29	53	55	72.30	25	6.8	26	42	18	25.0	5.0	25	14.13	25
80	12.54	18	20	48.010	37	68	70	88.80	32	8.4	26	42	18	31.5	4.9	32	18.13	32
125	20.02	25	28	75.013	58	111	117	134.75	50	12	29	45	20	50.0	4.8	50	28.56	50

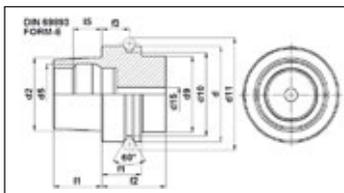
HSK Form C



Manual tool change type only
For use as a modular system
For special purpose machines
For transfer lines and lathes.

HSK - d	b1 ±0.04	d2.	d5	l1 -0.2	l5 JS10	f5
63	12.54	48.010	37	32	18.13	12.5
50	10.54	38.009	29	25	14.13	12.5
100	20.02	75.013	58	50	28.56	16

HSK Form E



High speed applications for automatic tool change.
Option coolant fitting as form 'A'
Note: No rear drive slots, no slots or notches in the flange.

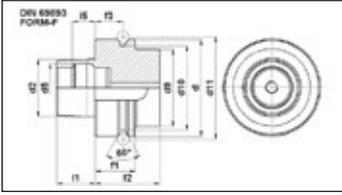
HSK - d	d2.	d5 H11	d9 max	d10 -0.1	d11 -0.1	d15 max	f1 -0.1	f2 min	f3 ±0.1	l1 -0.2	l5 JS10
50	38.009	29	40	43	59.30	6.8	26	42	18	25	14.13
63	48.010	37	50	55	72.30	8.4	26	42	18	32	18.13

Pre balanced G6.3@20000 RPM
Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

HSK Form F



High speed applications
Enlarged flange diameter for rigidity
No drive slots
Symmetrical design
For use on machines with automatic tool change

HSK - d	d2	d5	d9 max	d10 -0.1	d11 -0.1	f1 -0.1	f2 min	f3 ±0.1	l1 -0.2	l5 JS10
63	38.009	29	50	55	72.30	26	42	18	25	14.13

SHK DETAIL Shank Detail



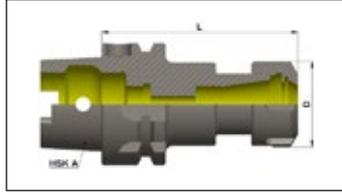
Pre balanced G6.3@20000 RPM
Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

HSK A50

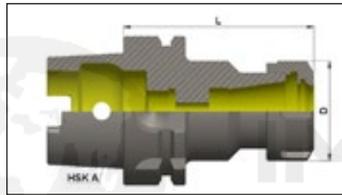
HSK A50 – Standard GPL



Part No.	Product name	Taper	Size	L	Clamping range	D	G	Nut	Kgs	Group
F1A050A-ERS16080	HSK A50 ER 16 080	A50	ER16	80	1-10	28	-	F15500-16ERH	0.6	B
F1A050A-ERS20080	HSK A50 ER 20 080	A50	ER20	80	1-13	35	-	F15500-20ERS	0.6	B
F1A050A-ERS25080	HSK A50 ER 25 080	A50	ER25	80	1-16	42	-	F15500-25ERS	0.6	B
F1A050A-ERS32080	HSK A50 ER 32 080	A50	ER32	80	2-20	50	-	F15500-32ERS	0.6	B

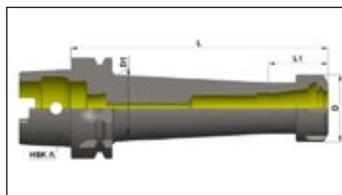
HSK A63

HSK A63 – Standard GPL



Part No.	Product name	Taper	Size	L	Clamping range	D	G	Nut	Kgs	Group
F1A063A-ERS16080	HSK A63 ER 16 080	A63	ER16	80	1-10	28	-	F15500-16ERH	0.8	B
F1A063A-ERS20080	HSK A63 ER 20 080	A63	ER20	80	1-13	35	-	F15500-20ERS	0.8	B
F1A063A-ERS25080	HSK A63 ER 25 080	A63	ER25	80	1-16	42	-	F15500-25ERS	0.9	B
F1A063A-ERS32080	HSK A63 ER 32 080	A63	ER32	80	2-20	50	-	F15500-32ERS	1	B
F1A063A-ERS40100	HSK A63 ER 40 100	A63	ER40	100	3-26	63	-	F15500-40ERS	1.2	B

HSK A63 – GPL =160 mm



Part No.	Product name	Taper	Size	L	Clamping range	D	D1	L1	G	Nut	Kgs	Group
F1A063A-ERS16160	HSK A63 ER 16 160	A63	ER16	160	1-10	28	-	-	SCW7/16	F15500-16ERH	1.3	B
F1A063A-ERS20160	HSK A63 ER 20 160	A63	ER20	160	1-13	35	35	32.5	M14X1.5	F15500-20ERS	1.5	B
F1A063A-ERS25160	HSK A63 ER 25 160	A63	ER25	160	1-16	42	42	32	M18X1.5	F15500-25ERS	1.6	B
F1A063A-ERS32160	HSK A63 ER 32 160	A63	ER32	160	2-20	50	50	34.5	M22X1.5	F15500-32ERS	1.9	B
F1A063A-ERS40160	HSK A63 ER 40 160	A63	ER40	160	3-26	63	-	-	M28X1.5	F15500-40ERS	2.1	B

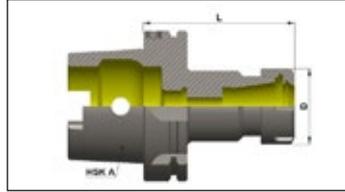
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 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

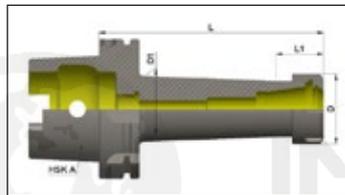
HSK A100

HSK A100 – Standard GPL



Part No.	Product name	Taper	Size	L	Clamping range	D	G	Nut	Kgs	Group
F1A100A-ERS16100	HSK A100 ER 16 100	A100	ER16	100	1-10	28	SCW7/16	F15500-16ERH	2.2	B
F1A100A-ERS20100	HSK A100 ER 20 100	A100	ER20	100	1-13	35	M14X1.5	F15500-20ERS	2.4	B
F1A100A-ERS25100	HSK A100 ER 25 100	A100	ER25	100	1-16	42	M12	F15500-25ERS	2.5	B
F1A100A-ERS32100	HSK A100 ER 32 100	A100	ER32	100	2-20	50	M12	F15500-32ERS	2.7	B
F1A100A-ERS40100	HSK A100 ER 40 100	A100	ER40	100	3-26	63	-	F15500-40ERS	2.8	B
F1A100A-ERS50120	HSK A100 ER 50 120	A100	ER50	120	10-34	78	-	F15500-50ERS	3.3	B

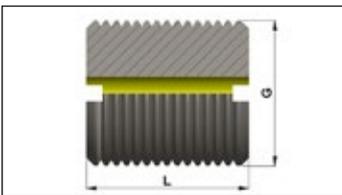
HSK A100 – GPL =160 mm



Part No.	Product name	Taper	Size	L	Clamping range	D	D1	L1	G	Nut	Kgs	Group
F1A100A-ERS16160	HSK A100 ER 16 160	A100	ER16	160	1-10	28	-	-	SCW7/16	F15500-16ERH	2.6	B
F1A100A-ERS20160	HSK A100 ER 20 160	A100	ER20	160	1-13	35	35	33.5	M12	F15500-20ERS	2.8	B
F1A100A-ERS25160	HSK A100 ER 25 160	A100	ER25	160	1-16	42	42	32	M18X1.5	F15500-25ERS	3	B
F1A100A-ERS32160	HSK A100 ER 32 160	A100	ER32	160	2-20	50	47	35	M22X1.5	F15500-32ERS	3.2	B
F1A100A-ERS40160	HSK A100 ER 40 160	A100	ER40	160	3-26	63	63	45	M28X1.5	F15500-40ERS	3.9	B

Spares

Stopper Screw



Part No.	L	G
F1SCWA-20U11	20	7/16
F1SCWM-20M06	20	M6
F1SCWM-20M14	20	M14
F1SCWM-20M18	20	M18
F1SCWM-20M22	20	M22
F1SCWM-20M28	20	M28

Pre balanced G6.3@20000 RPM
 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

Accessories



For Further Details Please Refer Accessories Catalog.



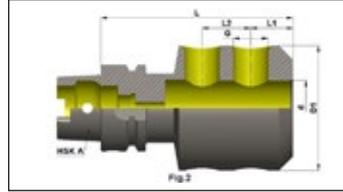
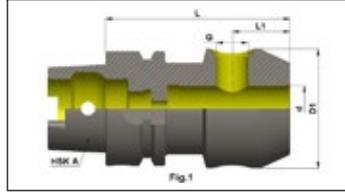
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Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

HSK A50

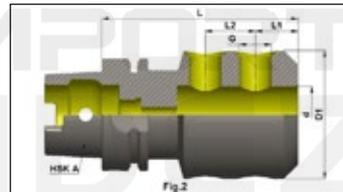
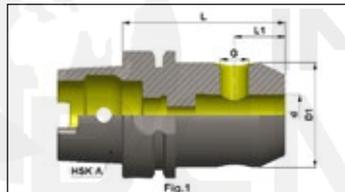
HSK A50 – Standard GPL



Part No.	Product name	Taper	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1A050A-EMH06065	HSK A50 EM 06 065	A50	6	65	25	M6	18	-	1	0.5	B
F1A050A-EMH08065	HSK A50 EM 08 065	A50	8	65	28	M8	18	-	1	0.6	B
F1A050A-EMH10065	HSK A50 EM 10 065	A50	10	65	35	M10	20	-	1	0.6	B
F1A050A-EMH12080	HSK A50 EM 12 080	A50	12	80	42	M12	22.5	-	1	1	B
F1A050A-EMH16080	HSK A50 EM 16 080	A50	16	80	48	M14	24	-	1	1	B
F1A050A-EMH20080	HSK A50 EM 20 080	A50	20	80	52	M16	25	-	1	1	B
F1A050A-EMH25110	HSK A50 EM 25 110	A50	25	110	65	M18X2	24	25	2	1.8	B
F1A050A-EMH32110	HSK A50 EM 32 110	A50	32	110	72	M20X2	24	28	2	1.9	B

HSK A63

HSK A63 – Standard GPL



Part No.	Product name	Taper	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1A063A-EMH06065	HSK A63 EM 06 065	A63	6	65	25	M6	18	-	1	0.8	B
F1A063A-EMH08065	HSK A63 EM 08 065	A63	8	65	28	M8	18	-	1	0.8	B
F1A063A-EMH10065	HSK A63 EM 10 065	A63	10	65	35	M10	20	-	1	0.9	B
F1A063A-EMH12080	HSK A63 EM 12 080	A63	12	80	42	M12	22.5	-	1	1.2	B
F1A063A-EMH16080	HSK A63 EM 16 080	A63	16	80	48	M14	24	-	1	1.3	B
F1A063A-EMH20080	HSK A63 EM 20 080	A63	20	80	52	M16	25	-	1	1.3	B
F1A063A-EMH25110	HSK A63 EM 25 110	A63	25	110	65	M18X2	24	25	2	2.3	B
F1A063A-EMH32110	HSK A63 EM 32 110	A63	32	110	72	M20X2	24	28	2	2.5	B
F1A063A-EMH40120	HSK A63 EM 40 120	A63	40	120	80	M20X2	30	32	2	4.2	B

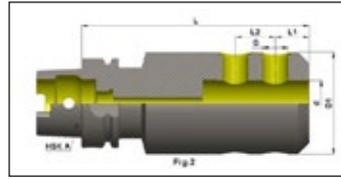
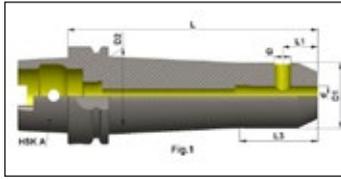
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 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

EMH End Mill Holder (DIN 1835 - B)

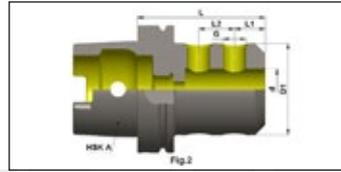
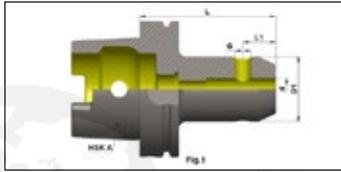
HSK A63 – GPL =160 mm



Part No.	Product name	Taper	d.	L	D1	D2	G	L1	L2	L3	FIG	Kgs	Group
F1A063A-EMH08160	HSK A63 EM 08 160	A63	8	160	28	38	M8	18	-	32	1	1.2	B
F1A063A-EMH10160	HSK A63 EM 10 160	A63	10	160	35	40	M10	20	-	35	1	1.2	B
F1A063A-EMH12160	HSK A63 EM 12 160	A63	12	160	42	-	M12	22.5	-	-	1	2	B
F1A063A-EMH16160	HSKA 63 EM 16 160	A63	16	160	48	-	M14	24	-	-	1	2.4	B
F1A063A-EMH20160	HSK A63 EM 20 160	A63	20	160	52	-	M16	25	-	-	1	1.7	B
F1A063A-EMH25160	HSKA 63 EM 25 160	A63	25	160	65	-	M18X2	24	25	-	2	3.3	B

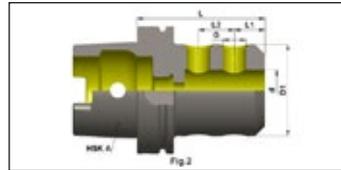
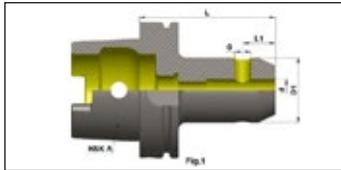
HSK A100

HSK A100 – Standard GPL



Part No.	Product name	Taper	d.	L	D1	G	L1	L2	Kgs	Group
F1A100A-EMH06080	HSK A100 EM 06 080	A100	6	80	25	M6	18	-	2.1	B
F1A100A-EMH08080	HSK A100 EM 08 080	A100	8	80	28	M8	18	-	2.2	B
F1A100A-EMH10080	HSK A100 EM 10 080	A100	10	80	35	M10	20	-	2.2	B
F1A100A-EMH12080	HSK A100 EM 12 080	A100	12	80	42	M12	22.5	-	2.3	B

HSK A100 – GPL =100 mm



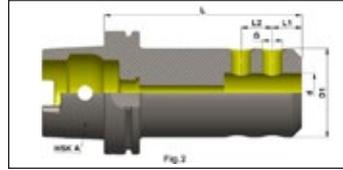
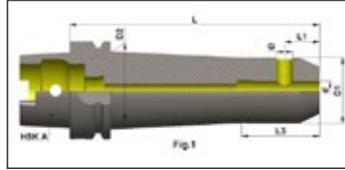
Part No.	Product name	Taper	d.	L	D1	G	L1	L2	Kgs	Group
F1A100A-EMH16100	HSK A100 EM 16 100	A100	16	100	48	M14	24	-	2.8	B
F1A100A-EMH20100	HSK A100 EM 20 100	A100	20	100	52	M16	25	-	3.1	B
F1A100A-EMH25100	HSK A100 EM 25 100	A100	25	100	65	M18X2	24	25	3.5	B
F1A100A-EMH32100	HSK A100 EM 32 100	A100	32	100	72	M20X2	24	28	3.8	B
F1A100A-EMH40120	HSK A100 EM 40 120	A100	40	120	90	M20X2	30	32	5.4	B
F1A100A-EMH50130	HSK A100 EM 50 130	A100	50	130	100	M24X2	35	35	6.2	B

Pre balanced G6.3@20000 RPM
 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

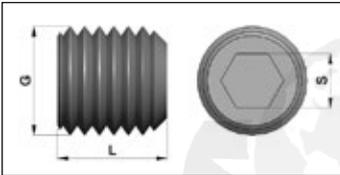
HSK A100 – GPL =160 mm



Part No.	Product name	Taper	d.	L	D1	G	L1	L2	Kgs	Group	D2	L3	FIG
F1A100A-EMH08160	HSK A100 EM 08 160	A100	8	160	28	M8	18	-	2.8	B	38	32	1
F1A100A-EMH10160	HSK A100 EM 10 160	A100	10	160	35	M10	20	-	2.8	B	42	35	1
F1A100A-EMH12160	HSK A100 EM 12 160	A100	12	160	42	M12	22.5	-	2.6	B	48	35	1
F1A100A-EMH16160	HSK A100 EM 16 160	A100	16	160	48	M14	24	-	2.8	B	54	40	1
F1A100A-EMH20160	HSK A100 EM 20 160	A100	20	160	52	M16	25	-	3	B	-	-	2
F1A100A-EMH25160	HSK A100 EM 25 160	A100	25	160	65	M18X2	24	25	5	B	-	-	2
F1A100A-EMH32160	HSK A100 EM 32 160	A100	32	160	72	M20X2	24	28	5.6	B	-	-	2
F1A100A-EMH40160	HSK A100 EM 40 160	A100	40	160	90	M20X2	30	32	6.3	B	-	-	2

Spares

Grub Screw



Part No.	G	L	S
F1GSWD-10M06	M6	10	3
F1GSWD-10M08	M8	10	4
F1GSWD-12M10	M10	12	5
F1GSWD-16M12	M12	16	6
F1GSWD-16M14	M14	16	6
F1GSWD-16M16	M16	16	8
F1GSWD-20M18	M18	20	10
F1GSWD-20M20	M20	20	10
F1GSWD-25M24	M24	25	12

Accessories



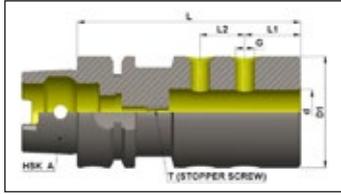
For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@20000 RPM
Fine balancing G2.5@25000 RPM on request



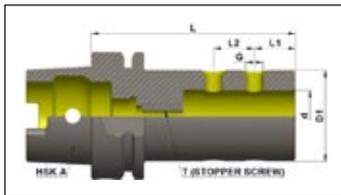
HSK (DIN 69893)

HSK A50



Part No.	Product name	Taper	d.	L	L1	L2	D1	G	T	Kgs	Group
F1A050A-SLA20100	HSK A50 SLA 20 100	A50	20	100	25	20	50	M10	M12	1.4	B
F1A050A-SLA25110	HSK A50 SLA 25 110	A50	25	110	25	20	50	M10	M12	1.4	B
F1A050A-SLA32110	HSK A50 SLA 32 110	A50	32	110	30	20	60	M10	M12	1.8	B

HSK A63



Part No.	Product name	Taper	d.	L	L1	L2	D1	G	T	Kgs	Group
F1A063A-SLA25110	HSK A63 SLA 25 110	A63	25	110	25	20	50	M10	M12	1.8	B
F1A063A-SLA32110	HSK A63 SLA 32 110	A63	32	110	30	20	60	M10	M12	2	B
F1A063A-SLA40125	HSK A63 SLA 40 125	A63	40	125	30	20	63	M12	M12	2.4	B

Spares

Grub Screw

Part No.	G	L	S
F1GSWD-10M06	M6	10	3
F1GSWD-10M08	M8	10	4
F1GSWD-12M10	M10	12	5
F1GSWD-16M12	M12	16	6
F1GSWD-16M14	M14	16	6
F1GSWD-16M16	M16	16	8
F1GSWD-20M18	M18	20	10
F1GSWD-20M20	M20	20	10
F1GSWD-25M24	M24	25	12

Accessories



For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@20000 RPM
 Fine balancing G2.5@25000 RPM on request



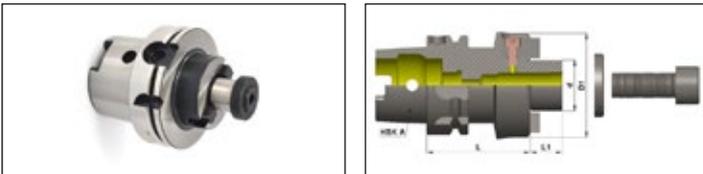
HSK (DIN 69893)

HSK A50 – Standard GPL



Part No.	Product name	Taper	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1A050A-SMS16050	HSK A50 SMS 16 050	A50	16	50	17	34	40	0.6	B
F1A050A-SMS22060	HSK A50 SMS 22 060	A50	22	60	19	48	50 & 63	0.9	B
F1A050A-SMS27060	HSK A50 SMS 27 060	A50	27	60	21	60	80	1	B

HSK A63 – Standard GPL



Part No.	Product name	Taper	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1A063A-SMS16050	HSK A63 SMS 16 050	A63	16	50	17	34	40	0.9	B
F1A063A-SMS22050	HSK A63 SMS 22 050	A63	22	50	19	48	50 & 63	1.2	B
F1A063A-SMS27060	HSK A63 SMS 27 060	A63	27	60	21	60	80	1.4	B
F1A063A-SMS32065	HSK A63 SMS 32 065	A63	32	65	24	70	100	1.6	B
F1A063A-SMS40065	HSK A63 SMS 40 065	A63	40	65	27	80	125	2	B

HSK A100 – Standard GPL



Part No.	Product name	Taper	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1A100A-SMS16050	HSK A100 SMS 16 050	A100	16	50	17	34	40	2.2	B
F1A100A-SMS22050	HSK A100 SMS 22 050	A100	22	50	19	48	50 & 63	2.4	B
F1A100A-SMS27050	HSK A100 SMS 27 050	A100	27	50	21	60	80	2.5	B
F1A100A-SMS32060	HSK A100 SMS 32 060	A100	32	60	24	70	100	3	B
F1A100A-SMS40060	HSK A100 SMS 40 060	A100	40	60	27	80	125	3.4	B

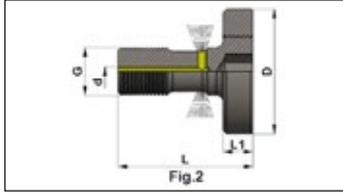
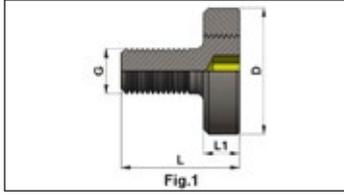
Pre balanced G6.3@20000 RPM
 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

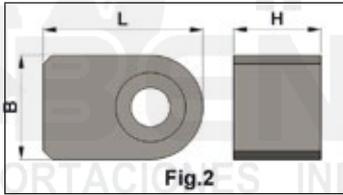
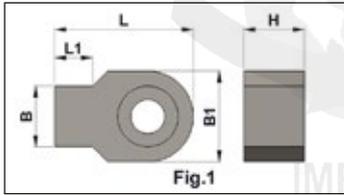
Spares

Cutter Clamping Screw



Part No.	D	L	L1	G	d.	Allen Key	FIG	Remarks
F1CCSN-22M10	28	26	8	M10	-	6mm	1	NORMAL
F1CCSN-16M08	20	23	7	M8	-	5mm	1	NORMAL
F1CCSN-27M12	35	31	9	M12	-	8mm	1	NORMAL
F1CCSN-32M16	42	36	10	M16	-	10mm	1	NORMAL
F1CCSN-40M20	52	41	11	M20	-	12mm	1	NORMAL
F1CCSN-60M30	75	60	15	M30	-	17mm	1	NORMAL
F1CCSN-50M24	75	49	13	M24	-	14mm	1	NORMAL
F1CCST-22M10	28	33	8	M10	3.2	6mm	2	THRU COOLANT
F1CCST-16M08	20	32	7	M8	2.5	5mm	2	THRU COOLANT
F1CCST-27M12	35	44	9	M12	3.2	8mm	2	THRU COOLANT
F1CCST-32M16	42	45	10	M16	3.2	10mm	2	THRU COOLANT
F1CCST-40M20	52	51	11	M20	3.2	12mm	2	THRU COOLANT

Driving Key



Part No.	Product name	B	b1	L	L1	H	Allen Screw	FIG
F1DRKY-08S16	DRIVING KEY 08 16	8	12	17.5	5	8	M4	1
F1DRKY-10S22	DRIVING KEY 10 22	10	12	18.3	7.5	10	M4	1
F1DRKY-12S27	DRIVING KEY 12 27	12	-	18.3	-	10	M4	2
F1DRKY-14S32	DRIVING KEY 14 32	14	-	24	-	13	M5	2
F1DRKY-16S40	DRIVING KEY 16 40	16	-	24	-	16	M6	2

Accessories



For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@20000 RPM
Fine balancing G2.5@25000 RPM on request

HSK (DIN 69893)

HSK A50

HSK A50 – Standard GPL



Part No.	Product name	Taper	d.	L	L1	D1	Kgs	Group
F1A050A-CMH16050	HSK A50 CMH 16 050	A50	16	50	17	32	0.49	B
F1A050A-CMH22050	HSK A50 CMH 22 050	A50	22	50	19	40	0.6	B
F1A050A-CMH27065	HSK A50 CMH 27 065	A50	27	65	21	48	0.8	B
F1A050A-CMH32065	HSK A50 CMH 32 065	A50	32	65	24	58	0.88	B

HSK A63

HSK A63 – Standard GPL



Part No.	Product name	Taper	d.	L	L1	D1	Kgs	Group
F1A063A-CMH16060	HSK A63 CMH 16 060	A63	16	60	17	32	0.82	B
F1A063A-CMH22060	HSK A63 CMH 22 060	A63	22	60	19	40	0.91	B
F1A063A-CMH27060	HSK A63 CMH 27 060	A63	27	60	21	48	1	B
F1A063A-CMH32060	HSK A63 CMH 32 060	A63	32	60	24	58	1.13	B
F1A063A-CMH40070	HSK A63 CMH 40 070	A63	40	70	27	70	1.5	B

HSK A100

HSK A100 – Standard GPL



Part No.	Product name	Taper	d.	L	L1	D1	Kgs	Group
F1A100A-CMH16060	HSK A100 CMH 16 060	A100	16	60	17	32	2.17	B
F1A100A-CMH22060	HSK A100 CMH 22 060	A100	22	60	19	40	2.24	B
F1A100A-CMH27060	HSK A100 CMH 27 060	A100	27	60	21	48	2.34	B
F1A100A-CMH32060	HSK A100 CMH 32 060	A100	32	60	24	58	2.5	B
F1A100A-CMH40070	HSK A100 CMH 40 070	A100	40	70	27	70	3.04	B

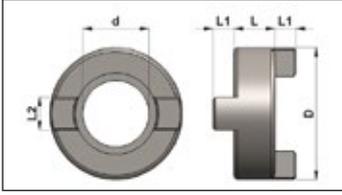
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 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

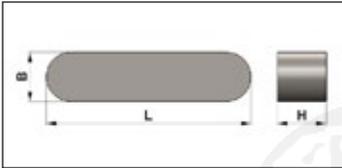
Spares

Drive Ring



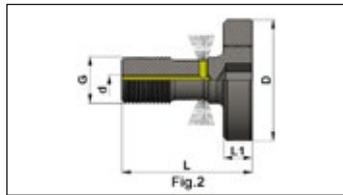
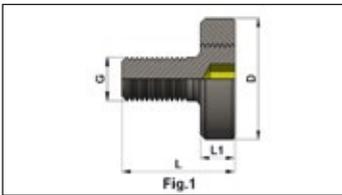
Part No.	d.	D	L	L1	L2
F1DRRG-CMH16	16	32	10	5	8
F1DRRG-CMH22	22	40	12	5.6	10
F1DRRG-CMH27	27	48	12	6.3	12
F1DRRG-CMH32	32	58	14	7	14
F1DRRG-CMH40	40	70	14	8	16

Parallel Key



Part No.	Product name	d.	B	H	L
F1PLKY-04020	PARALLEL KEY 4x20	16	4	4	20
F1PLKY-06025	PARALLEL KEY 6x25	22	6	6	25
F1PLKY-07025	PARALLEL KEY 7x25	27	7	7	25
F1PLKY-08028	PARALLEL KEY 8x28	32	8	7	28
F1PLKY-10032	PARALLEL KEY 10x32	40	10	8	32

Cutter Clamping Screw



Part No.	D	L	L1	G	d.	FIG	Remarks	Allen Key
F1CCSN-22M10	28	26	8	M10	-	1	NORMAL	6mm
F1CCSN-16M08	20	23	7	M8	-	1	NORMAL	5mm
F1CCSN-27M12	35	31	9	M12	-	1	NORMAL	8mm
F1CCSN-32M16	42	36	10	M16	-	1	NORMAL	10mm
F1CCSN-40M20	52	41	11	M20	-	1	NORMAL	12mm
F1CCSN-60M30	75	60	15	M30	-	1	NORMAL	17mm
F1CCSN-50M24	75	49	13	M24	-	1	NORMAL	14mm
F1CCST-22M10	28	33	8	M10	3.2	2	THRU COOLANT	6mm
F1CCST-16M08	20	32	7	M8	2.5	2	THRU COOLANT	5mm
F1CCST-27M12	35	44	9	M12	3.2	2	THRU COOLANT	8mm
F1CCST-32M16	42	45	10	M16	3.2	2	THRU COOLANT	10mm
F1CCST-40M20	52	51	11	M20	3.2	2	THRU COOLANT	12mm

Pre balanced G6.3@20000 RPM
 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

Accessories



For Further Details Please Refer Accessories Catalog.

CMH Combi Shell Mill Holder



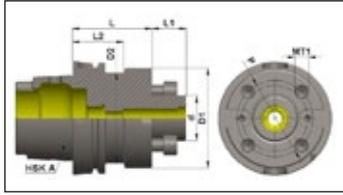
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Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

FMH Flange Face Mill Arbor

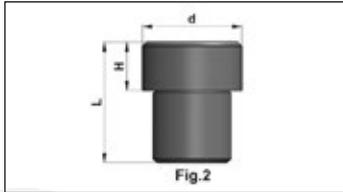
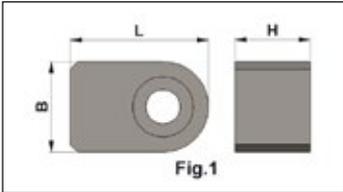
HSK A100



Part No.	Product name	Taper	d.	L	D1	D2	L1	L2	P	T1	Kgs	Group
F1A100X-FMH40070	HSK A 100 FMH 40 070	A100	40	70	88	80	30	45	66.7	M12	3.9	B
F1A100X-FMH60070	HSK A 100 FMH 60 070	A100	60	70	128	80	40	45	101.6	M16	6.2	B

Spares

Driving Key



Part No.	B	d.	H	L	Allen Screw	FIG
F1DRKY-40FMH	16	-	16	24	M6	1
F1DRKY-60FMH	-	25.4	12.5	27.5	M6	2

Accessories



For Further Details Please Refer Accessories Catalog.

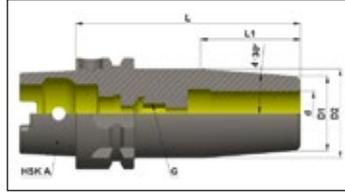
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 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

HSK A50

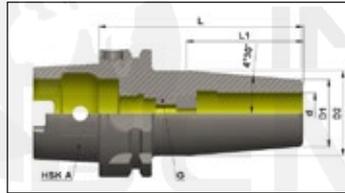
HSK A50 – Standard GPL



Part No.	Product name	Taper	d.	L	D1	D2	L1	G	Kgs	Group
F1A050A-SFC06060	HSK A 50 SFC 06 080	A50	6	80	21	27	36	M5	0.6	B
F1A050A-SFC08080	HSK A 50 SFC 08 080	A50	8	80	21	27	36	M6	0.6	B
F1A050A-SFC10085	HSK A 50 SFC 10 085	A50	10	85	24	32	42	M8X1	0.64	B
F1A050A-SFC12090	HSK A 50 SFC 12 090	A50	12	90	24	32	47	M10x1	0.66	B
F1A050A-SFC14090	HSK A 50 SFC 14 090	A50	14	90	27	34	47	M10X1	0.68	B
F1A050A-SFC16095	HSK A 50 SFC 16 095	A50	16	95	27	34	50	M12X1	0.7	B
F1A050A-SFC18095	HSK A 50 SFC 18 095	A50	18	95	33	42	50	M12X1	0.88	B
F1A050A-SFC20100	HSK A 50 SFC 20 100	A50	20	100	33	42	52	M16X1	0.9	B

HSK A63

HSK A63 – Standard GPL



Part No.	Product name	Taper	d.	L	D1	D2	L1	G	Kgs	Group
F1A063A-SFC06080	HSK A 63 SFC 06 080	A63	6	80	21	27	36	M5	0.83	B
F1A063A-SFC08080	HSK A 63 SFC 08 080	A63	8	80	21	27	36	M6	0.83	B
F1A063A-SFC10085	HSK A 63 SFC 10 085	A63	10	85	24	32	42	M8X1	0.92	B
F1A063A-SFC12090	HSK A 63 SFC 12 090	A63	12	90	24	32	47	M10X1	0.92	B
F1A063A-SFC14090	HSK A 63 SFC 14 090	A63	14	90	27	34	47	M10X1	0.93	B
F1A063A-SFC16095	HSK A 63 SFC 16 095	A63	16	95	27	34	50	M12X1	0.96	B
F1A063A-SFC18095	HSK A 63 SFC 18 095	A63	18	95	33	42	50	M12X1	1.15	B
F1A063A-SFC20100	HSK A 63 SFC 20 100	A63	20	100	33	42	52	M16X1	1.18	B
F1A063A-SFC25115	HSK A 63 SFC 25 115	A63	25	115	44	53	58	M16X1	1.75	B

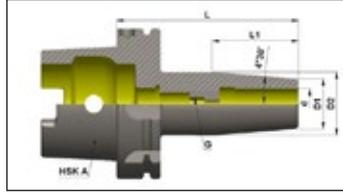
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 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

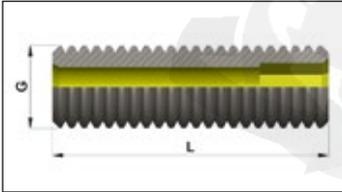
HSK A100

HSK A100 – Standard GPL



Part No.	Product name	Taper	d.	L	D1	D2	L1	G	Kgs	Group
F1A100A-SFC06120	HSK A 100 SFC 06 120	A100	6	120	21	27	36	M5	2.4	B
F1A100A-SFC08120	HSK A 100 SFC 08 120	A100	8	120	21	27	36	M6	2.4	B
F1A100A-SFC10120	HSK A 100 SFC 10 120	A100	10	120	24	32	42	M8X1	2.5	B
F1A100A-SFC12120	HSK A 100 SFC 12 120	A100	12	120	24	32	47	M10X1	2.5	B
F1A100A-SFC14120	HSK A 100 SFC 14 120	A100	14	120	27	34	47	M10X1	2.5	B
F1A100A-SFC16120	HSK A 100 SFC 16 120	A100	16	120	27	34	50	M12X1	2.6	B
F1A100A-SFC18120	HSK A 100 SFC 18 120	A100	18	120	33	42	50	M12X1	2.7	B
F1A100A-SFC20120	HSK A 100 SFC 20 120	A100	20	120	33	42	52	M16X1	2.8	B
F1A100A-SFC25120	HSK A 100 SFC 25 120	A100	25	120	44	53	58	M16X1	3	B
F1A100A-SFC32120	HSK A 100 SFC 32 120	A100	32	120	44	53	58	M16X1	3	B

Spares



Part No.	G	L
F1SCWM-20M06	M6	20
F1SCWM-20M08	M8	20
F1SCWM-20M10	M10	20
F1SCWM-20M12	M12	20
F1SCWM-20M16	M16	20
F1SCWM-20M05	M5	20

Accessories



For Further Details Please Refer Accessories Catalog.

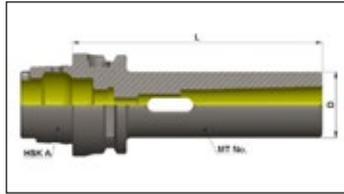
Pre balanced G6.3@20000 RPM
 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

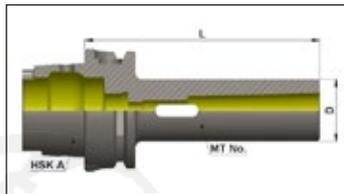
HSK A

HSK A50



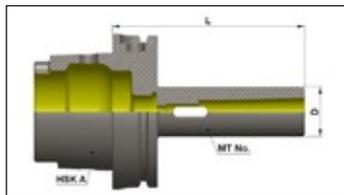
Part No.	Product name	Taper	MT No.	L	D1	Kgs	Group
F1A050A-MTA01100	HSK A 50 MTA 01 100	A50	1	100	25	0.6	B
F1A050A-MTA02120	HSK A 50 MTA 02 120	A50	2	120	32	0.9	B
F1A050A-MTA03140	HSK A 50 MTA 03 140	A50	3	140	40	1.2	B

HSK A63



Part No.	Product name	Taper	MT No.	L	D1	Kgs	Group
F1A063A-MTA01100	HSK A 63 MTA 01 100	A63	1	100	25	0.9	B
F1A063A-MTA02120	HSK A 63 MTA 02 120	A63	2	120	32	1.1	B
F1A063A-MTA03140	HSK A 63 MTA 03 140	A63	3	140	40	1.5	B
F1A063A-MTA04160	HSK A 63 MTA 04 160	A63	4	160	48	1.9	B

HSK A100



Part No.	Product name	Taper	MT No.	L	D1	Kgs	Group
F1A100A-MTA01110	HSK A 100 MTA 01 110	A100	1	110	25	2.2	B
F1A100A-MTA02120	HSK A 100 MTA 02 120	A100	2	120	32	2.4	B
F1A100A-MTA03150	HSK A 100 MTA 03 150	A100	3	150	40	2.9	B
F1A100A-MTA04170	HSK A 100 MTA 04 170	A100	4	170	48	3.3	B
F1A100A-MTA05200	HSK A 100 MTA 05 200	A100	5	200	70	4.5	B

Pre balanced G6.3@20000 RPM
 Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

Accessories



For Further Details Please Refer Accessories Catalog.



Pre balanced G6.3@20000 RPM
Fine balancing G2.5@25000 RPM on request



HSK (DIN 69893)

HSK A63



Part No.	Product name	Taper	D	L	Kgs	Group
F1A063X-BLA064250	HSK A63 BLANK 64 250	A63A	64	250	6	B
F1A063X-BLA080200	HSK A63 BLANK 80 200	A63A	80	200	7	B

HSK A100



Part No.	Product name	Taper	D	L	Kgs	Group
F1A100X-BLA100150	HSK A100 BLANK 100 150	A100	100	150	8.9	B
F1A100X-BLA100250	HSK A100 BLANK 100 250	A100	100	250	15	B

Accessories



For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@20000 RPM
Fine balancing G2.5@25000 RPM on request





SK (DIN 69871)



World-class products

Precise quality

Satisfied customer

ZERTIFIKAT ♦ CERTIFICATE ♦ certificat ♦ CERTIFICADO ♦ CERTIFICAT



CERTIFICATE

The Certification Body
of TÜV SÜD South Asia Private Limited
certifies that



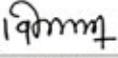
Falcon Toolings
SF No -205/1 & 2, Kuttai Thottam, Kalapatti post
Coimbatore- 641048, Tamil Nadu, INDIA

has implemented a Quality Management System
in accordance with ISO 9001:2015
For Scope of

Design, Development, Manufacturing & Supply of Toolings

The certificate is valid in conjunction
with the main-certificate from 2018-01-20 until 2021-01-19
Subject to successful completion of annual periodic audits
The present status of this Certificate can be obtained on www.tuvsud.com
Further clarifications regarding the scope of this certificate may be obtained by consulting the certification body

Certificate Registration No. **99 100 10587/01**
Date of Initial certification : 2015-01-20



Certification Body
of TÜV SÜD South Asia Private Limited, Mumbai
Member of TÜV SÜD Group



TÜV SÜD South Asia Pvt. Ltd. • TÜV SÜD House - Saki Naka - Andheri East - Mumbai - 400072 • Maharashtra - India

TUV®

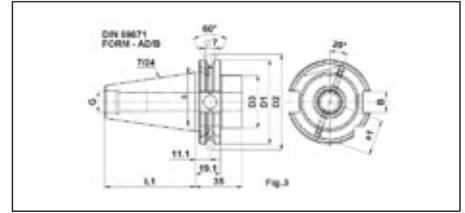
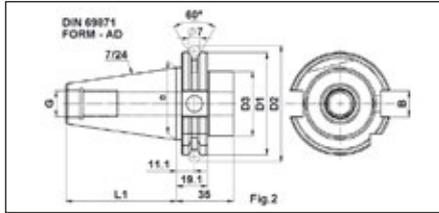
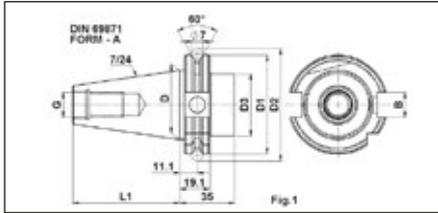
SK (DIN 69871)

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	Accessories

SK (DIN 69871)

Machine Design



Form A , AD & AD/B

Machine Design	TAPER ISO	D	D1	D2	D3	L	G	B	e1
SK40	40	44.45	63.55	72.3	50.0	68.4	M16	16.1	27
SK45	45	57.15	82.55	91.35	63.0	82.7	M20	19.3	35
SK50	50	69.85	97.50	107.25	80.0	101.75	M24	25.7	42

ANSI / CAT - Form AD

Machine Design	TAPER ISO	D	D1	D2	D3	L	B	G
CAT40 - AD	40	44.45	63.5	72.35	44.45	68.23	16.38	5/8-11
CAT45 - AD	45	57.15	82.55	91.35	57.15	82.55	19.55	3/4-10
CAT50 - AD	50	69.85	98.43	107.64	69.85	101.6	25.91	1"-8



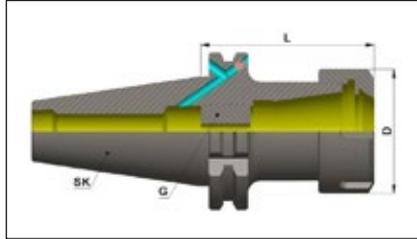
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



SK (DIN 69871)

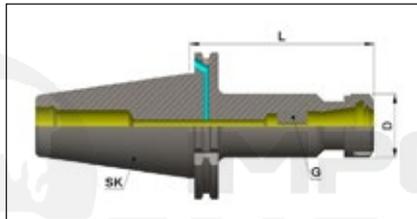
SK – Form ADB – G6.3

SK 40 – Standard GPL



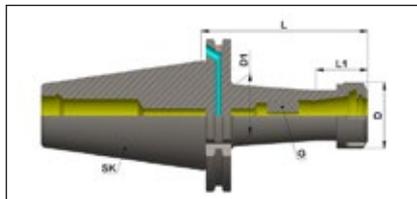
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1S409A-ERS16063	SK40 ADB ER 16 063	40	AD/B	ER16	63	1-10	SCW7/16	28	F15500-16ERH	0.9	B
F1S409A-ERS25060	SK40 ADB ER 25 060	40	AD/B	ER25	60	1-16	M18X1.5	42	F15500-25ERS	1	B
F1S409A-ERS32070	SK40 ADB ER 32 070	40	AD/B	ER32	70	2-20	M22X1.5	50	F15500-32ERS	1.1	B
F1S409A-ERS40080	SK40 ADB ER 40 080	40	AD/B	ER40	80	3-26	M22X1.5	63	F15500-40ERS	1.4	B

SK 40 – GPL = 100 mm



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1S409A-ERS16100	SK40 ADB ER 16 100	40	AD/B	ER16	100	1-10	SCW7/16	28	F15500-16ERH	1.1	B
F1S409A-ERS25100	SK40 ADB ER 25 100	40	AD/B	ER25	100	1-16	M18X1.5	42	F15500-25ERS	1.3	B
F1S409A-ERS32100	SK40 ADB ER 32 100	40	AD/B	ER32	100	2-20	M22X1.5	50	F15500-32ERS	1.3	B
F1S409A-ERS40100	SK40 ADB ER 40 100	40	AD/B	ER40	100	3-26	M28X1.5	63	F15500-40ERS	1.6	B

SK 40 - GPL = 160 mm

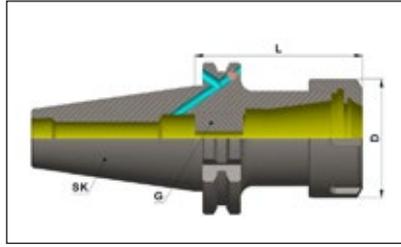


Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group	D1	L1
F1S409A-ERS16160	SK40 ADB ER 16 160	40	AD/B	ER16	160	1-10	SCW7/16	28	F15500-16ERH	1.5	B	22	34
F1S409A-ERS25160	SK40 ADB ER 25 160	40	AD/B	ER25	160	1-16	M18X1.5	42	F15500-25ERS	1.9	B	32	33
F1S409A-ERS32160	SK40 ADB ER 32 160	40	AD/B	ER32	160	2-20	M22X1.5	50	F15500-32ERS	1.9	B	40	33

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request

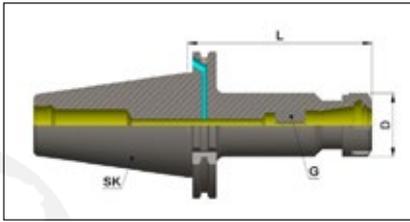
SK (DIN 69871)

SK 50 – Standard GPL



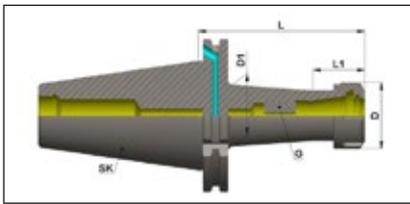
Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1S509A-ERS25070	SK50 ADB ER 25 070	50	AD/B	ER25	70	1-16	M18X1.5	42	F15500-25ERS	2.8	B
F1S509A-ERS32070	SK50 ADB ER 32 070	50	AD/B	ER32	70	2-20	M22X1.5	50	F15500-32ERS	3	B
F1S509A-ERS40080	SK50 ADB ER 40 080	50	AD/B	ER40	80	3-26	M28X1.5	63	F15500-40ERS	3.1	B

SK 50 - GPL = 100 mm



Part No.	Product name	Taper	Form	Size	L	Clamping range	G	D	Nut	Kgs	Group
F1S509A-ERS16100	SK50 ADB ER 16 100	50	AD/B	ER16	100	1-10	SCW7/16	28	F15500-16ERH	2.9	B
F1S509A-ERS25100	SK50 ADB ER 25 100	50	AD/B	ER25	100	1-16	M18X1.5	42	F15500-25ERS	3.2	B
F1S509A-ERS32100	SK50 ADB ER 32 100	50	AD/B	ER32	100	2-20	M22X1.5	50	F15500-32ERS	3.4	B
F1S509A-ERS40100	SK50 ADB ER 40 100	50	AD/B	ER40	100	3-26	M28X1.5	63	F15500-40ERS	3.5	B

SK 50 - GPL = 160 mm



Part No.	Product name	Taper	Form	Size	L	L1	Clamping range	G	D	D1	Nut	Kgs	Group
F1S509A-ERS16160	SK50 ADB ER 16 160	50	AD/B	ER16	160	30.6	1-10	SCW7/16	28	28	F15500-16ERH	3.1	B
F1S509A-ERS25160	SK50 ADB ER 25 160	50	AD/B	ER25	160	32	1-16	M18X1.5	42	40	F15500-25ERS	3.4	B
F1S509A-ERS32160	SK50 ADB ER 32 160	50	AD/B	ER32	160	33	2-20	M22X1.5	50	48	F15500-32ERS	3.8	B

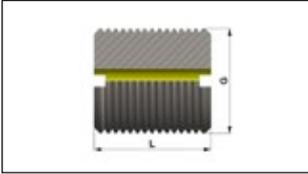
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



SK (DIN 69871)

Spares

Stopper Screw



Part No.	G	L
F1SCWA-20U11	7/16	20
F1SCWM-20M06	M6	20
F1SCWM-20M14	M14	20
F1SCWM-20M18	M18	20
F1SCWM-20M22	M22	20
F1SCWM-20M28	M28	20

Accessories



For Further Details Please Refer Accessories Catalog.

IMPORTACIONES INDUSTRIALES BENDEZU E.I.R.L.

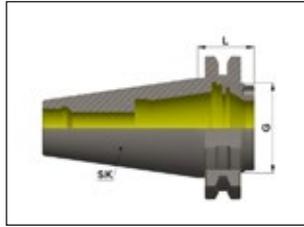
ERS ER Collet Chuck

Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request



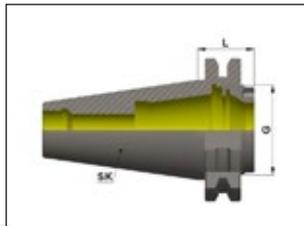
SK (DIN 69871)

SK40 Form AD



Part No.	Product name	Taper	Form	Size	Clamping range	L	Nut	D	Kgs	Group
F1S401A-ERS32025	SK40 AD ER 32 025	40	AD	ER32	2-20	25	F15500-32SER	M40x1.5	0.6	B

SK50 Form AD



Part No.	Product name	Taper	Form	Size	L	Clamping range	Nut	D	Kgs	Group
F1S501A-ERS40026	SK50 AD ER 40 026	50	AD	ER40	26	3-26	F15500-40SER	M50X1.5	2.2	B

Spares



Part No.	Product name	G	L
F15500-32SER	SHORT NUT SER32	M40X1.5	14
F15500-40SER	SHORT NUT SER40	M50X1.5	20

Accessories



For Further Details Please Refer Accessories Catalog.

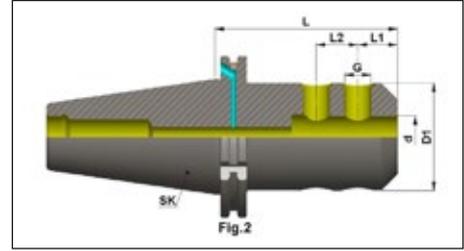
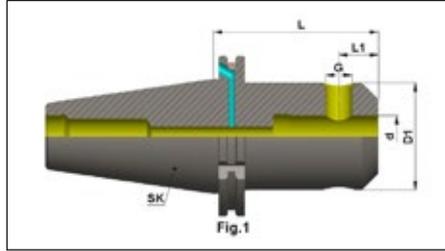
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



SK (DIN 69871)

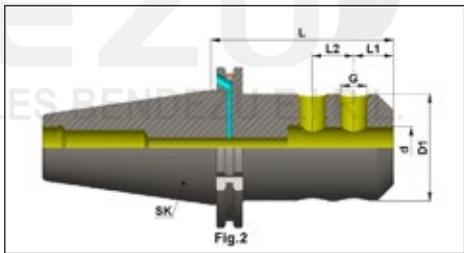
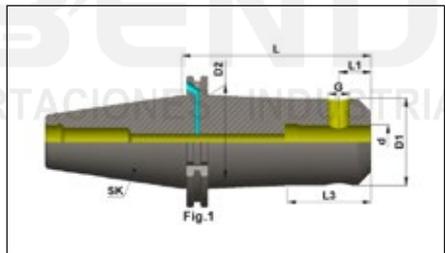
SK – Form ADB – G6.3

SK 40 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1S409A-EMH06050	SK40 ADB EM 06 050	40	AD/B	6	50	25	M6	18	-	1	0.9	B
F1S409A-EMH08050	SK40 ADB EM 08 050	40	AD/B	8	50	28	M8	18	-	1	0.9	B
F1S409A-EMH12050	SK40 ADB EM 12 050	40	AD/B	12	50	42	M12	22.5	-	1	1.2	B
F1S409A-EMH14050	SK40 ADB EM 14 050	40	AD/B	14	50	44	M12	22.5	-	1	1.2	B
F1S409A-EMH16063	SK40 ADB EM 16 063	40	AD/B	16	63	48	M14	24	-	1	1.2	B
F1S409A-EMH18063	SK40 ADB EM 18 063	40	AD/B	18	63	50	M14	24	-	1	1.3	B
F1S409A-EMH20063	SK40 ADB EM 20 063	40	AD/B	20	63	52	M16	25	-	1	1.4	B
F1S409A-EMH25100	SK40 ADB EM 25 100	40	AD/B	25	100	65	M18X2	24	25	2	1.6	B
F1S409A-EMH32100	SK40 ADB EM 32 100	40	AD/B	32	100	72	M20X2	24	28	2	3.3	B
F1S409A-EMH40120	SK40 ADB EM 40 120	40	AD/B	40	120	80	M20X2	30	32	2	4.7	B
F1S409A-EMH10050	SK40 ADB EM 10 050	40	AD/B	10	50	35	M10	20	-	1	0.9	B

SK 40 - GPL = 160 mm



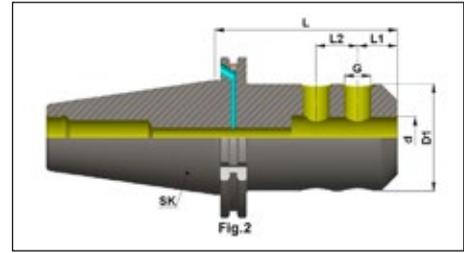
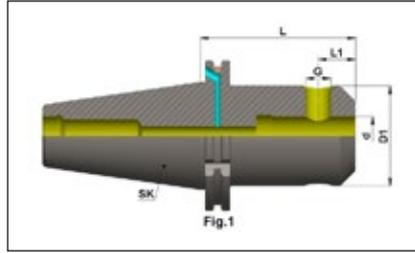
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F1S409A-EMH06160	SK40 ADB EM 06 160	40	AD/B	6	160	25	35	M6	18	-	30	1	1.2	B
F1S409A-EMH08160	SK40 ADB EM 08 160	40	AD/B	8	160	28	38	M8	18	-	32	1	1.2	B
F1S409A-EMH10160	SK40 ADB EM 10 160	40	AD/B	10	160	35	40	M10	20	-	35	1	1.5	B
F1S409A-EMH12160	SK40 ADB EM 12 160	40	AD/B	12	160	42	-	M12	22.5	-	-	1	1.7	B
F1S409A-EMH16160	SK40 ADB EM 16 160	40	AD/B	16	160	48	-	M14	24	-	-	1	2	B
F1S409A-EMH20160	SK40 ADB EM 20 160	40	AD/B	20	160	52	-	M16	25	-	-	1	2.7	B
F1S409A-EMH25160	SK40 ADB EM 25 160	40	AD/B	25	160	65	-	M18X2	24	25	-	2	2.6	B

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



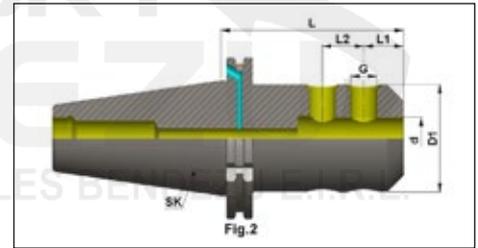
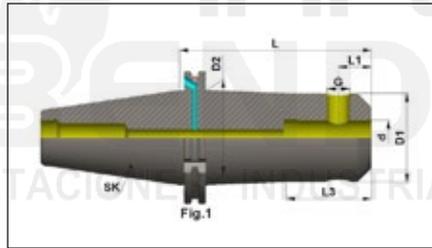
SK (DIN 69871)

SK 50 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	D1	G	L1	L2	FIG	Kgs	Group
F1S509A-EMH06063	SK50 ADB EM 06 063	50	AD/B	6	63	25	M6	18	-	1	2.7	B
F1S509A-EMH08063	SK50 ADB EM 08 063	50	AD/B	8	63	28	M8	18	-	1	2.7	B
F1S509A-EMH10063	SK50 ADB EM 10 063	50	AD/B	10	63	35	M10	20	-	1	2.8	B
F1S509A-EMH12063	SK50 ADB EM 12 063	50	AD/B	12	63	42	M12	22.5	-	1	2.9	B
F1S509A-EMH14063	SK50 ADB EM 14 063	50	AD/B	14	63	44	M12	22.5	-	1	3	B
F1S509A-EMH16063	SK50 ADB EM 16 063	50	AD/B	16	63	48	M14	24	-	1	3	B
F1S509A-EMH18063	SK50 ADB EM 18 063	50	AD/B	18	63	50	M14	24	-	1	3.1	B
F1S509A-EMH20063	SK50 ADB EM 20 063	50	AD/B	20	63	52	M16	25	-	1	3.2	B
F1S509A-EMH25080	SK50 ADB EM 25 080	50	AD/B	25	80	65	M18X2	24	25	2	3.3	B
F1S509A-EMH32100	SK50 ADB EM 32 100	50	AD/B	32	100	72	M20X2	24	28	2	4.3	B
F1S509A-EMH40100	SK50 ADB EM 40 100	50	AD/B	40	100	90	M20X2	30	32	2	5.5	B

SK 50 - GPL = 160mm



Part No.	Product name	Taper	Form	d.	L	D1	D2	G	L1	L2	L3	FIG	Kgs	Group
F1S509A-EMH06160	SK50 ADB EM 06 160	50	AD/B	6	160	25	35	M6	18	-	30	1	3	B
F1S509A-EMH08160	SK50 ADB EM 08 160	50	AD/B	8	160	28	38	M8	18	-	32	1	3	B
F1S509A-EMH10160	SK50 ADB EM 10 160	50	AD/B	10	160	35	42	M10	20	-	35	1	3.2	B
F1S509A-EMH12160	SK50 ADB EM 12 160	50	AD/B	12	160	42	48	M12	22.5	-	35	1	3.5	B
F1S509A-EMH14160	SK50 ADB EM 14 160	50	AD/B	14	160	44	50	M12	22.5	-	35	1	3.6	B
F1S509A-EMH16160	SK50 ADB EM 16 160	50	AD/B	16	160	48	54	M14	24	-	40	1	3.8	B
F1S509A-EMH18160	SK50 ADB EM 18 160	50	AD/B	18	160	50	56	M14	24	-	40	1	4	B
F1S509A-EMH20160	SK50 ADB EM 20 160	50	AD/B	20	160	52	59	M16	25	-	45	1	4.5	B
F1S509A-EMH25160	SK50 ADB EM 25 160	50	AD/B	25	160	65	70	M18X2	24	25	62	2	4.4	B
F1S509A-EMH32160	SK50 ADB EM 32 160	50	AD/B	32	160	72	-	M20X2	24	28	-	2	5.2	B

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request

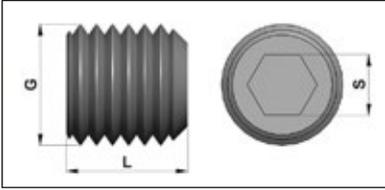


EMH End Mill Holder (DIN 1835 - B)

SK (DIN 69871)

Spares

Grub Screw



Part No.	G	L	S
F1GSWD-10M06	M6	10	3
F1GSWD-10M08	M8	10	4
F1GSWD-12M10	M10	12	5
F1GSWD-16M12	M12	16	6
F1GSWD-16M14	M14	16	6
F1GSWD-16M16	M16	16	8
F1GSWD-20M18	M18	20	10
F1GSWD-20M20	M20	20	10
F1GSWD-25M24	M24	25	12

Accessories



For Further Details Please Refer Accessories Catalog.

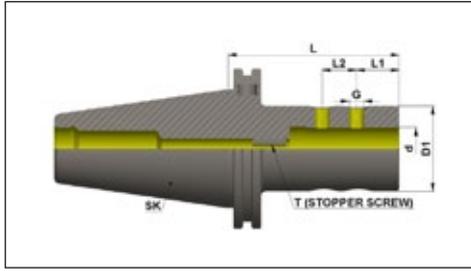
EMH End Mill Holder (DIN 1835 - B)

Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request



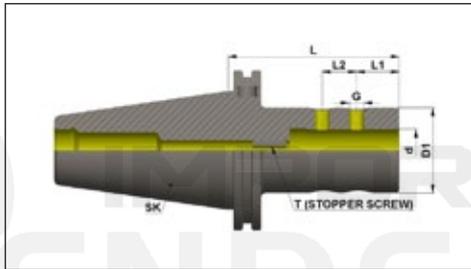
SK (DIN 69871)

SK 40 - Form AD



Part No.	Product name	Taper	Form	d.	L	G	D1	L1	L2	T	Kgs	Group
F1S401A-SLA20090	SK40 AD SLA 20 090	40	AD	20	90	M10	50	25	20	M12	1.7	B
F1S401A-SLA25090	SK40 AD SLA 25 090	40	AD	25	90	M10	50	25	20	M12	1.6	B
F1S401A-SLA32090	SK40 AD SLA 32 090	40	AD	32	90	M10	60	30	20	M12	1.8	B
F1S401A-SLA40090	SK40 AD SLA 40 090	40	AD	40	90	M12	63	30	20	M12	1.6	B

SK 50 - Form AD



Part No.	Product name	Taper	Form	d.	L	G	D1	L1	L2	T	Kgs	Group
F1S501A-SLA20105	SK50 AD SLA 20 105	50	AD	20	105	M10	50	25	20	M12	3.7	B
F1S501A-SLA25105	SK50 AD SLA 25 105	50	AD	25	105	M10	50	25	20	M12	3.6	B
F1S501A-SLA32105	SK50 AD SLA 32 105	50	AD	32	105	M10	60	30	20	M12	4	B
F1S501A-SLA40105	SK50 AD SLA 40 105	50	AD	40	105	M12	70	30	20	M12	4.4	B

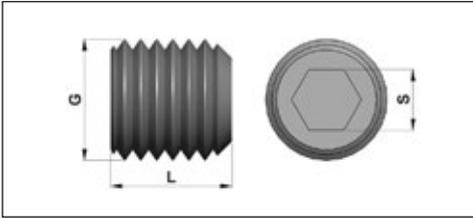
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



SK (DIN 69871)

Spares

Grub Screw



Part No.	G	L	S
F1GSWD-10M06	M6	10	3
F1GSWD-10M08	M8	10	4
F1GSWD-12M10	M10	12	5
F1GSWD-16M12	M12	16	6
F1GSWD-16M14	M14	16	6
F1GSWD-16M16	M16	16	8
F1GSWD-20M18	M18	20	10
F1GSWD-20M20	M20	20	10
F1GSWD-25M24	M24	25	12

Accessories



For Further Details Please Refer Accessories Catalog.

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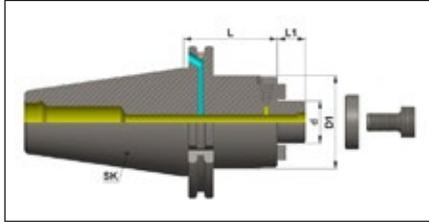
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Fine balancing G2.5@25000 RPM on request



SK (DIN 69871)

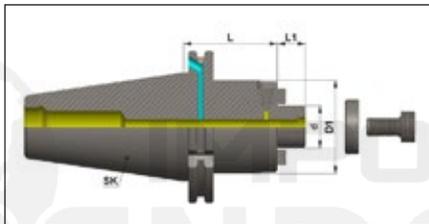
SK – Form ADB – G6.3

SK 40 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1S409A-SMS16060	SK40 ADB SMS 16 060	40	AD/B	16	60	17	34	40	1.1	B
F1S409A-SMS22060	SK40 ADB SMS 22 060	40	AD/B	22	60	19	48	50 & 63	1.4	B
F1S409A-SMS27045	SK40 ADB SMS 27 045	40	AD/B	27	45	21	60	80	1.4	B
F1S409A-SMS32060	SK40 ADB SMS 32 060	40	AD/B	32	60	24	70	100	2	B
F1S409A-SMS40060	SK40 ADB SMS 40 060	40	AD/B	40	60	27	80	125	2.4	B

SK 50 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Cutter Dia	Kgs	Group
F1S509A-SMS22060	SK50 ADB SMS 22 060	50	AD/B	22	60	19	48	50 & 63	3.4	B
F1S509A-SMS27060	SK50 ADB SMS 27 060	50	AD/B	27	60	21	60	80	3.6	B
F1S509A-SMS32060	SK50 ADB SMS 32 060	50	AD/B	32	60	24	70	100	4	B
F1S509A-SMS40060	SK50 ADB SMS 40 060	50	AD/B	40	60	27	80	125	5	B

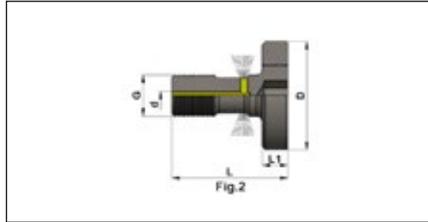
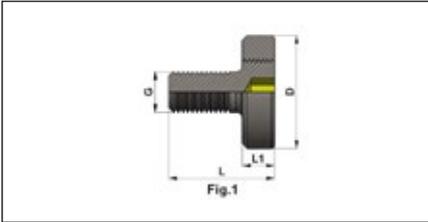
Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



SK (DIN 69871)

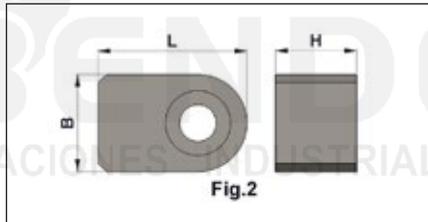
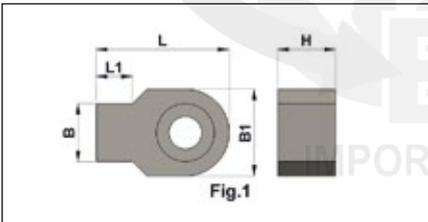
Spares

Cutter Clamping Screw



Part No.	D	L	L1	G	d.	Allen Key	FIG	Remarks
F1CCSN-22M10	28	26	8	M10	-	6mm	1	NORMAL
F1CCSN-16M08	20	23	7	M8	-	5mm	1	NORMAL
F1CCSN-27M12	35	31	9	M12	-	8mm	1	NORMAL
F1CCSN-32M16	42	36	10	M16	-	10mm	1	NORMAL
F1CCSN-40M20	52	41	11	M20	-	12mm	1	NORMAL
F1CCSN-60M30	75	60	15	M30	-	17mm	1	NORMAL
F1CCSN-50M24	75	49	13	M24	-	14mm	1	NORMAL
F1CCST-22M10	28	33	8	M10	3.2	6mm	2	THRU COOLANT
F1CCST-16M08	20	32	7	M8	2.5	5mm	2	THRU COOLANT
F1CCST-27M12	35	44	9	M12	3.2	8mm	2	THRU COOLANT
F1CCST-32M16	42	45	10	M16	3.2	10mm	2	THRU COOLANT
F1CCST-40M20	52	51	11	M20	3.2	12mm	2	THRU COOLANT

Driving Key



Part No.	Product name	B	b1	L	L1	H	Allen Screw	FIG
F1DRKY-08S16	DRIVING KEY 08 16	8	12	17.5	5	8	M4	1
F1DRKY-10S22	DRIVING KEY 10 22	10	12	18.3	7.5	10	M4	1
F1DRKY-12S27	DRIVING KEY 12 27	12	-	18.3	-	10	M4	2
F1DRKY-14S32	DRIVING KEY 14 32	14	-	24	-	13	M5	2
F1DRKY-16S40	DRIVING KEY 16 40	16	-	24	-	16	M6	2

Accessories



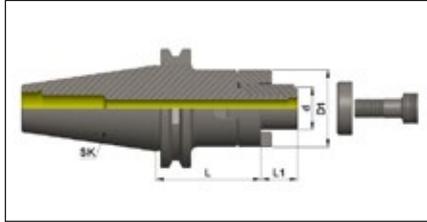
For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request

SK (DIN 69871)

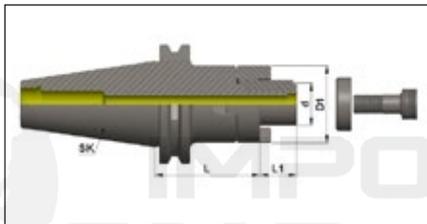
SK – Form AD – G6.3

SK 40 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Kgs	Group
F1S401A-CMH32060	SK40 AD CMH 32 060	40	AD	32	60	24	58	2.2	B
F1S401A-CMH16055	SK40 AD CMH 16 055	40	AD	16	55	17	32	1.1	B
F1S401A-CMH22055	SK40 AD CMH 22 055	40	AD	22	55	19	40	1.4	B
F1S401A-CMH27055	SK40 AD CMH 27 055	40	AD	27	55	21	48	1.6	B

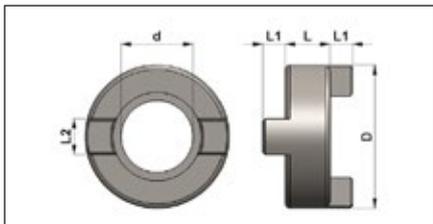
SK 50 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	L1	D1	Kgs	Group
F1S501A-CMH22055	SK50 AD CMH 22 055	50	AD	22	55	17	40	3.4	B
F1S501A-CMH27055	SK50 AD CMH 27 055	50	AD	27	55	19	48	3.6	B
F1S501A-CMH32060	SK50 AD CMH 32 060	50	AD	32	60	21	58	4	B
F1S501A-CMH40060	SK50 AD CMH 40 060	50	AD	40	60	24	70	5	B

Spares

Drive Ring



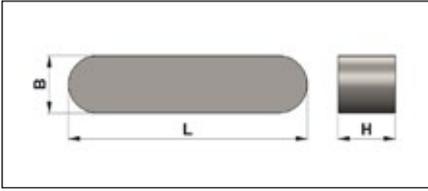
Part No.	d.	D	L	L1	L2
F1DRRG-CMH16	16	32	10	5	8
F1DRRG-CMH22	22	40	12	5.6	10
F1DRRG-CMH27	27	48	12	6.3	12
F1DRRG-CMH32	32	58	14	7	14
F1DRRG-CMH40	40	70	14	8	16

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



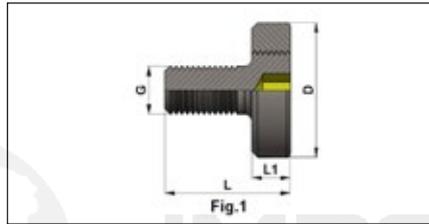
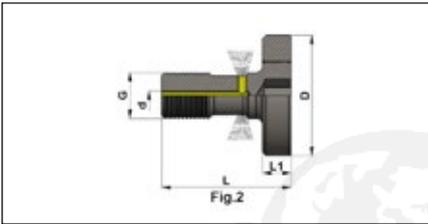
SK (DIN 69871)

Parallel Key



Part No.	Product name	d.	B	H	L
F1PLKY-04020	PARALLEL KEY 4x20	16	4	4	20
F1PLKY-06025	PARALLEL KEY 6x25	22	6	6	25
F1PLKY-07025	PARALLEL KEY 7x25	27	7	7	25
F1PLKY-08028	PARALLEL KEY 8x28	32	8	7	28
F1PLKY-10032	PARALLEL KEY 10x32	40	10	8	32

Cutter Clamping Screw



Part No.	D	L	L1	G	d.	Allen Key	FIG	Remarks
F1CCSN-22M10	28	26	8	M10	-	6mm	1	NORMAL
F1CCSN-16M08	20	23	7	M8	-	5mm	1	NORMAL
F1CCSN-27M12	35	31	9	M12	-	8mm	1	NORMAL
F1CCSN-32M16	42	36	10	M16	-	10mm	1	NORMAL
F1CCSN-40M20	52	41	11	M20	-	12mm	1	NORMAL
F1CCSN-60M30	75	60	15	M30	-	17mm	1	NORMAL
F1CCSN-50M24	75	49	13	M24	-	14mm	1	NORMAL
F1CCST-22M10	28	33	8	M10	3.2	6mm	2	THRU COOLANT
F1CCST-16M08	20	32	7	M8	2.5	5mm	2	THRU COOLANT
F1CCST-27M12	35	44	9	M12	3.2	8mm	2	THRU COOLANT
F1CCST-32M16	42	45	10	M16	3.2	10mm	2	THRU COOLANT
F1CCST-40M20	52	51	11	M20	3.2	12mm	2	THRU COOLANT

Accessories



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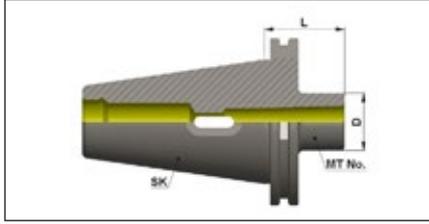
Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request

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SK (DIN 69871)

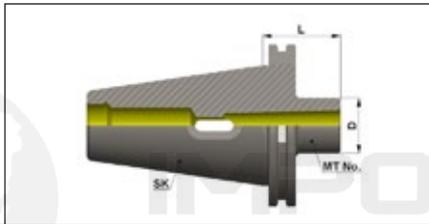
SK – Form AD

SK 40 – Standard GPL



Part No.	Product name	Taper	Form	MT No.	L	D1	Kgs	Group
F1S401A-MTA01045	SK40 AD MTA 01 045	40	AD	1	45	25	0.8	B
F1S401A-MTA02060	SK40 AD MTA 02 060	40	AD	2	60	32	0.9	B
F1S401A-MTA03075	SK40 AD MTA 03 075	40	AD	3	75	40	1.1	B
F1S401A-MTA04095	SK40 AD MTA 04 095	40	AD	4	95	48	1.4	B

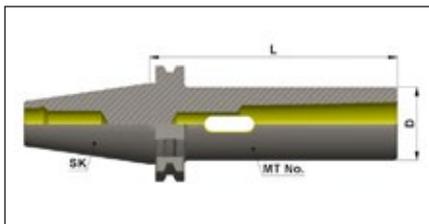
SK 50 – Standard GPL



Part No.	Product name	Taper	Form	MT No.	L	D1	Kgs	Group
F1S501A-MTA01045	SK50 AD MTA 01 045	50	AD	1	45	25	2.5	B
F1S501A-MTA02045	SK50 AD MTA 02 045	50	AD	2	45	32	2.5	B
F1S501A-MTA03045	SK50 AD MTA 03 045	50	AD	3	45	40	2.5	B
F1S501A-MTA04075	SK50 AD MTA 04 075	50	AD	4	75	48	2.8	B
F1S501A-MTA05105	SK50 AD MTA 05 105	50	AD	5	105	70	3.7	B

SK – Form A

SK 40 – Extended Length



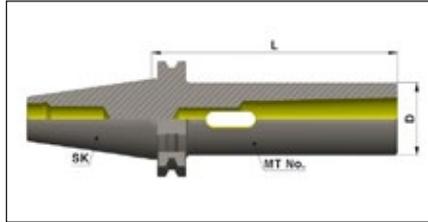
Part No.	Product name	Taper	Form	MT No.	L	D1	Kgs	Group
F1S405A-MTA01120	SK40 A MTA 01 120	40	A	1	120	25	1.3	B
F1S405A-MTA02120	SK40 A MTA 02 120	40	A	2	120	32	1.3	B
F1S405A-MTA03135	SK40 A MTA 03 135	40	A	3	135	40	1.6	B

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request



SK (DIN 69871)

SK 50 - Extended Length



Part No.	Product name	Taper	Form	MT No.	L	D1	Kgs	Group
F1S505A-MTA01120	SK50 A MTA 01 120	50	A	1	120	25	2.9	B
F1S505A-MTA02135	SK50 A MTA 02 135	50	A	2	135	32	3.1	B
F1S505A-MTA03150	SK50 A MTA 03 150	50	A	3	150	40	3.5	B
F1S505A-MTA04180	SK50 A MTA 04 180	50	A	4	180	48	4.3	B

Accessories



For Further Details Please Refer Accessories Catalog.

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MTA Morse Taper Adaptor

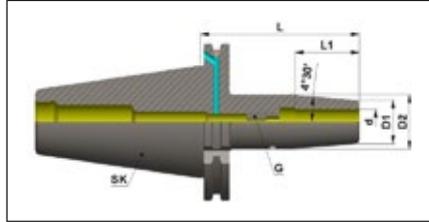
Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request



SK (DIN 69871)

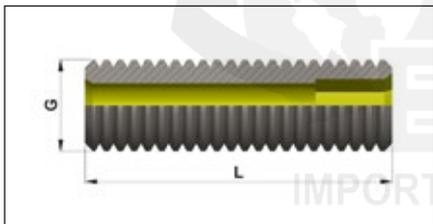
SK – Form ADB – G6.3

SK 40 – Standard GPL



Part No.	Product name	Taper	Form	d.	L	D1	D2	L1	G	Kgs	Group
F1S409A-SFC08080	SK40 ADB SFC 08 080	40	AD/B	8	80	21	27	36	M6	1	B
F1S409A-SFC06080	SK40 ADB SFC 06 080	40	AD/B	6	80	21	27	36	M5	1	B
F1S409A-SFC10080	SK40 ADB SFC 10 080	40	AD/B	10	80	24	32	42	M8X1	1.1	B
F1S409A-SFC12080	SK40 ADB SFC 12 080	40	AD/B	12	80	24	32	47	M10X1	1	B
F1S409A-SFC14080	SK40 ADB SFC 14 080	40	AD/B	14	80	27	34	47	M10X1	1.1	B
F1S409A-SFC16080	SK40 ADB SFC 16 080	40	AD/B	16	80	27	34	50	M12x1	1	B
F1S409A-SFC18080	SK40 ADB SFC 18 080	40	AD/B	18	80	33	42	50	M12X1	1.2	B
F1S409A-SFC20080	SK40 ADB SFC 20 080	40	AD/B	20	80	33	42	52	M16X1	1.1	B
F1S409A-SFC25100	SK40 ADB SFC 25 100	40	AD/B	25	100	44	53	58	M16X1	1.8	B

Spares



Part No.	G	L
F1SCWM-20M06	M6	20
F1SCWM-20M08	M8	20
F1SCWM-20M10	M10	20
F1SCWM-20M12	M12	20
F1SCWM-20M16	M16	20
F1SCWM-20M05	M5	20

Accessories



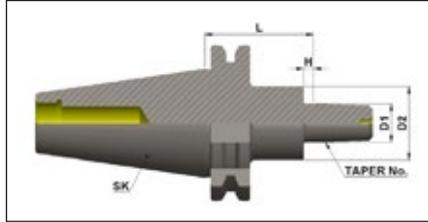
For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request

SK (DIN 69871)

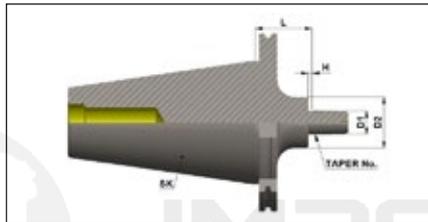
SK – Form A

SK 40 – Standard GPL



Part No.	Product name	Taper	Form	Taper No.	L	Clamping range	D1	D2	H	Kgs	Group
F1S405X-JTA06045	SK40 A JTA 06 045	40	A	JTA6	45	0.8 - 13	30	17.17	4	1.1	A
F1S405X-DCB16045	SK40 A B16 045	40	A	B16	45	0.8 - 13	30	15.73	4	1.1	A

SK 50 – Standard GPL



Part No.	Product name	Taper	Form	Taper No.	L	Clamping range	D1	D2	H	Kgs	Group
F1S505X-JTA06045	SK50 A JTA 06 045	50	A	JTA6	45	0.8 - 13	30	17.17	3.2	3.7	A
F1S505X-DCB16045	SK50 A B16 045	50	A	B16	45	0.8 - 13	30	15.73	4	3.7	A

Accessories



For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@15000 RPM
 Fine balancing G2.5@25000 RPM on request

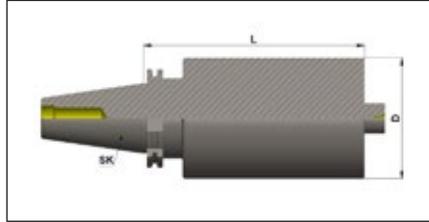


SK (DIN 69871)

BLA Boring Blank Adaptor

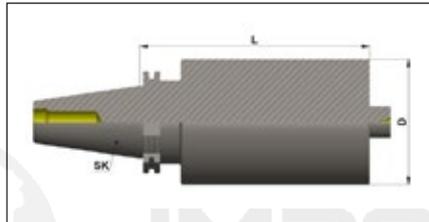
SK – Form A

SK 40 – Standard GPL



Part No.	Product name	Taper	Form	D	L	Kgs	Group
F1S405X-BLA063250	SK40 A BLANK 063 250	40	A	63	250	6.3	B
F1S405X-BLA080250	SK40 A BLANK 080 250	40	A	80	200	9.5	B

SK 50 – Standard GPL



Part No.	Product name	Taper	Form	D	L	Kgs	Group
F1S505X-BLA080250	SK50 A BLANK 080 250	50	A	80	250	11.6	B
F1S505X-BLA100300	SK50 A BLANK 100 300	50	A	100	300	19.6	B

Accessories



For Further Details Please Refer Accessories Catalog.

Pre balanced G6.3@15000 RPM
Fine balancing G2.5@25000 RPM on request





HYDRAULIC CHUCK



World-class products

Precise quality

Satisfied customer



HYDRAULIC CHUCK

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HYDRAULIC CHUCK TOOL HOLDERS

Hydraulic chucks are designed to be used in applications where high accuracy and rigidity is needed.

Hydraulic chucks are effective for reaming, drilling, threading at high spindle speeds.

Features:

- Powerful clamping force
- Exact axial length adjustment
- With intermediate sleeves, Will have versatile clamping range
- Hydraulic chuck are easy to handle and easy tool change
- Minimum tool run out ensures, good surface finish and extends tool life.

HYDRAULIC CHUCKS are available in following shank

- * BT (MAS 403)
- * PLBT (FACE-CONTACT)
- * HSK A (69893)
- * SK (DIN69871)

Mounting Instruction

1. Check tool holders for damage before each use – if damaged, do not use them.
2. The max. tightening torque for the Hydraulic chuck can be found in the data sheet provided below
3. To secure the clamping force, the clamping bore and groove have to be cleaned after every tool change with a cleaning agent which contain solvents(rust preventive oil).
4. For the best lubrication of the clamping screw, We are recommending the use of GREASE/Copper paste (Cu7439) MOLYKOTE which has higher retention capability

Cleaning Instruction:

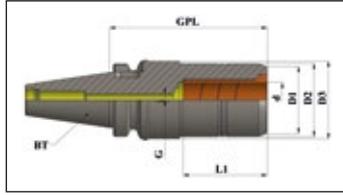
- * Holder and Bore to be cleaned with fresh cloth before use- Never use compressed air
- * The contact surfaces of the tool holder and the machine must be clean.

Torque Details:

Tool Holder Size (mm)	HYDRAULIC CHUCK - HEAVY DUTY			HYDRAULIC CHUCK- NORMAL									
	ø12	ø20	ø32	ø6	ø8	ø10	ø12	ø14	ø16	ø18	ø20	ø25	ø32
Minimum Clamping Length (mm)	38	43	53	28	28	33	38	38	41	41	43	49	53
Torque (N-m)	110	520	900	16	23	45	90	110	185	240	330	450	650

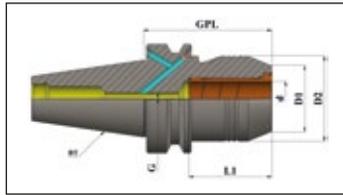
HYDRAULIC CHUCK

BT30- HCHD



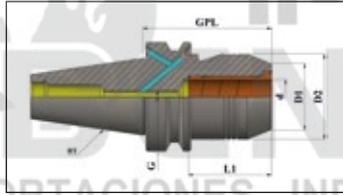
ITEMS	Product name	Form	d.	D1	D2	D3	L1	G	GPL	Group
F1B301H-HCHD12069	BT30 AD HYDRAULIC CHUCK HEAVY DUTY 12 069	AD	12	32	42	44.5	46	M8X1	069	B1500
F1B301H-HCHD20090	BT30 AD HYDRAULIC CHUCK HEAVY DUTY 20 090	AD	20	38	42	44.5	51	M8X1	090	B1500

BT40 - HCHD



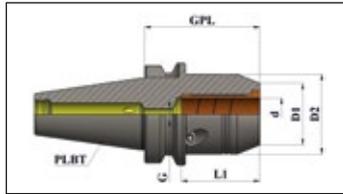
ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1B409H-HCHD12058	BT40 ADB HYDRAULIC CHUCK HEAVY DUTY 12 058	AD/B	12	32	42	46	M8X1	058	B1500
F1B409H-HCHD20073	BT40 ADB HYDRAULIC CHUCK HEAVY DUTY 20 72.5	AD/B	20	38	49.25	51	M8X1	72.5	B1500

BT50 - HCHD



ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1B509H-HCHD12069	BT50 ADB HYDRAULIC CHUCK HEAVY DUTY 12 069	AD/B	12	32	42	46	M8X1	069	B1500
F1B509H-HCHD20084	BT50 ADB HYDRAULIC CHUCK HEAVY DUTY 20 83.5	AD/B	20	38	49.25	51	M8X1	83.5	B1500
F1B509H-HCHD32090	BT50 ADB HYDRAULIC CHUCK HEAVY DUTY 32 090	AD/B	32	58.5	72	61	M8X1	090	B1500

PLBT30 - HCHD



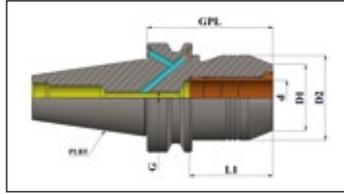
ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1B321H-HCHD12069	PLBT 30 AD HYDRAULIC CHUCK HEAVY DUTY 12 069	AD	12	32	42	46	M8X1	069	B1500
F1B321H-HCHD20090	PLBT30 AD HYDRAULIC CHUCK HEAVY DUTY 20 090	AD	20	38	42	51	M8X1	090	B1500

Balancing G2.5 @ 25000 RPM

HYDRAULIC CHUCK

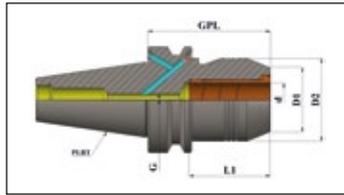
HCHD HYDRAULIC CHUCK-HEAVY DUTY

PLBT40 - HCHD



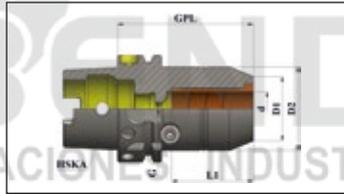
ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1B429H-HCHD12058	PLBT40 ADB HYDRAULIC CHUCK HEAVY DUTY 12 058	AD/B	12	32	42	46	M8X1	058	B1500
F1B429H-HCHD20073	PLBT40 ADB HYDRAULIC CHUCK HEAVY DUTY 20 72.5	AD/B	20	38	49.25	51	M8X1	72.5	B1500

PLBT50 - HCHD



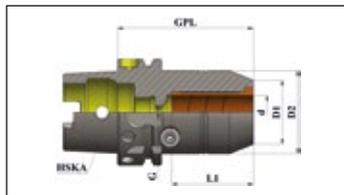
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F1B529H-HCHD12069	PLBT50 ADB HYDRAULIC CHUCK HEAVY DUTY 12 069	AD/B	12	32	42	46	M8X1	069	B1500
F1B529H-HCHD20084	PLBT50 ADB HYDRAULIC CHUCK HEAVY DUTY 20 83.5	AD/B	20	38	49.25	51	M8X1	83.5	B1500
F1B529H-HCHD32090	PLBT50 ADB HYDRAULIC CHUCK HEAVY DUTY 32 090	AD/B	32	58.5	72	61	M8X1	090	B1500

HSK A50 - HCHD



ITEMS	Product name	Taper	d.	D1	D2	L1	G	GPL	Group
F1A050H-HCHD12085	HSK A50 HYDRAULIC CHUCK HEAVY DUTY 12 085	HSKA50	12	32	42	46	M8X1	085	B1500
F1A050H-HCHD20090	HSK A50 HYDRAULIC CHUCK HEAVY DUTY 20 090	HSKA50	20	38	42	51	M8X1	090	B1500

HSK A63 - HCHD

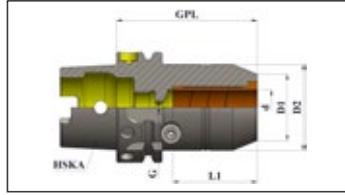


ITEMS	Product name	Taper	d.	D1	D2	L1	G	GPL	Group
F1A063H-HCHD12080	HSK A63 HYDRAULIC CHUCK HEAVY DUTY 12 080	HSKA63	12	32	42	46	M8X1	080	B1500
F1A063H-HCHD20080	HSK A63 HYDRAULIC CHUCK HEAVY DUTY 20 080	HSKA63	20	38	49.25	51	M8X1	080	B1500

Balancing G2.5 @ 25000 RPM

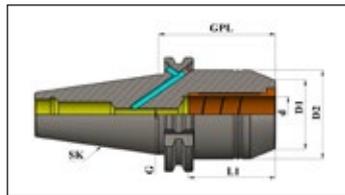
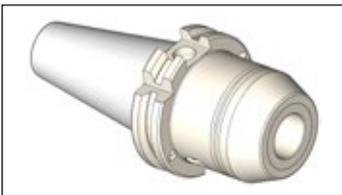
HYDRAULIC CHUCK

HSK A100-HCHD



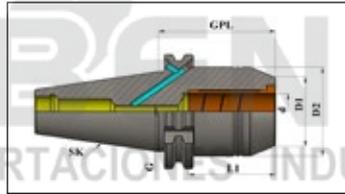
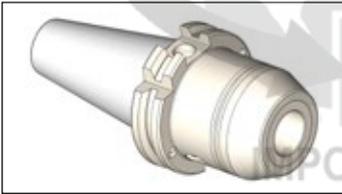
ITEMS	Product name	Taper	d.	D1	D2	L1	G	GPL	Group
F1A100H-HCHD12095	HSK A100 HYDRAULIC CHUCK HEAVY DUTY 12 095	HSKA100	12	32	42	46	M8X1	095	B1500
F1A100H-HCHD20090	HSK A100 HYDRAULIC CHUCK HEAVY DUTY 20 090	HSKA100	20	38	49.25	51	M8X1	090	B1500
F1A100H-HCHD32100	HSK A100 HYDRAULIC CHUCK HEAVY DUTY 32 100	HSKA100	32	58.5	72	61	M8X1	100	B1500

SK40 - HCHD



ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1S409H-HCHD12050	SK40 ADB HYDRAULIC CHUCK HEAVY DUTY 12 050	AD/B	12	32	42	46	M8X1	050	B1500
F1S409H-HCHD20065	SK40 ADB HYDRAULIC CHUCK HEAVY DUTY 20 64.5	AD/B	20	38	49.25	51	M8X1	64.5	B1500

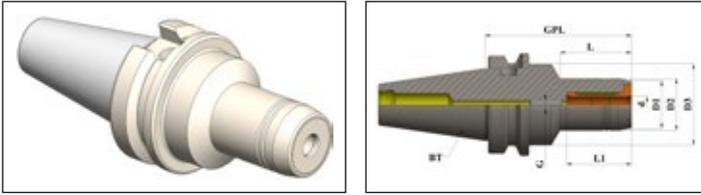
SK50 - HCHD



ITEMS	Product name	Form	d.	D1	D2	L1	G	GPL	Group
F1S509H-HCHD12050	SK50 ADB HYDRAULIC CHUCK HEAVY DUTY 12 050	AD/B	12	32	42	46	M8X1	050	B1500
F1S509H-HCHD20065	SK50 ADB HYDRAULIC CHUCK HEAVY DUTY 20 64.5	AD/B	20	38	49.25	51	M8X1	64.5	B1500
F1S509H-HCHD32081	SK50 ADB HYDRAULIC CHUCK HEAVY DUTY 32 081	AD/B	32	58.5	72	61	M8X1	081	B1500

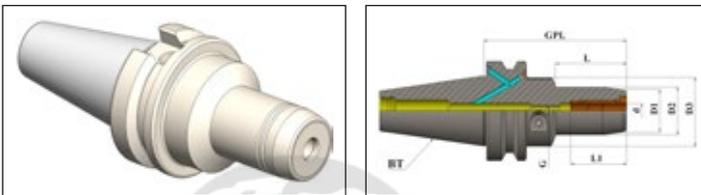
HYDRAULIC CHUCK

BT30 - HCNL



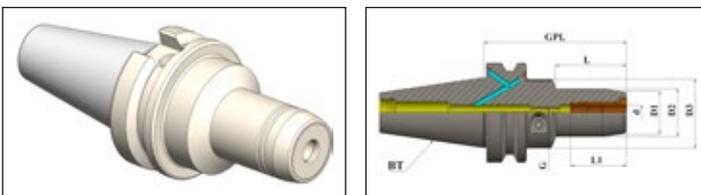
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B301H-HCNL06055	BT30 AD HYDRAULIC CHUCK NORMAL 06 055	AD	6	22.8	26	46	17.8	37	55	M5	B1500
F1B301H-HCNL08055	BT30 AD HYDRAULIC CHUCK NORMAL 08 055	AD	8	24.8	28	46	18.4	37	55	M6	B1500
F1B301H-HCNL10055	BT30 AD HYDRAULIC CHUCK NORMAL 10 055	AD	10	26.8	30	46	19	41	55	M8X1	B1500
F1B301H-HCNL12055	BT30 AD HYDRAULIC CHUCK NORMAL 12 055	AD	12	28.8	32	46	19.5	46	55	M10X1	B1500
F1B301H-HCNL16090	BT30 AD HYDRAULIC CHUCK NORMAL 16 090	AD	16	34.7	38	45	50	49	90	M10X1	B1500
F1B301H-HCNL20090	BT30 AD HYDRAULIC CHUCK NORMAL 20 090	AD	20	37.7	42	45	50	51	90	M6	B1500

BT40 - HCNL



ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B409H-HCNL06090	BT40 ADB HYDRAULIC CHUCK NORMAL 06 090	AD/B	6	22	26	44.5	43	37	90	M5	B1500
F1B409H-HCNL08090	BT40 ADB HYDRAULIC CHUCK NORMAL 08 090	AD/B	8	24	28	44.5	44.5	37	90	M6	B1500
F1B409H-HCNL10090	BT40 ADB HYDRAULIC CHUCK NORMAL 10 090	AD/B	10	26	30	44.5	44.5	41	90	M8X1	B1500
F1B409H-HCNL12090	BT40 ADB HYDRAULIC CHUCK NORMAL 12 090	AD/B	12	28	32	44.5	44.5	46	90	M10X1	B1500
F1B409H-HCNL16090	BT40 ADB HYDRAULIC CHUCK NORMAL 16 090	AD/B	16	34	38	44.5	47.5	49	90	M12X1	B1500
F1B409H-HCNL20090	BT40 ADB HYDRAULIC CHUCK NORMAL 20 090	AD/B	20	37.65	42	44.5	47.5	51	90	M16X1	B1500
F1B409H-HCNL32100	BT40 ADB HYDRAULIC CHUCK NORMAL 32 100	AD/B	32	58.5	62	-	63	61	100	M16X1	B1500

BT50 - HCNL

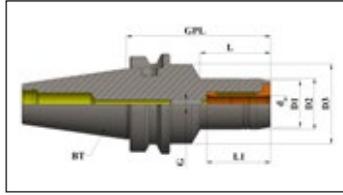
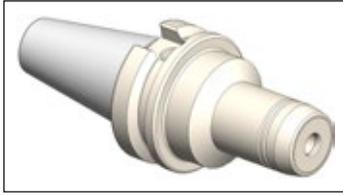


ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B509H-HCNL12090	BT50 ADB HYDRAULIC CHUCK NORMAL 12 090	AD/B	12	28	32	44.5	34	46	90	M10X1	B1500
F1B509H-HCNL20090	BT50 ADB HYDRAULIC CHUCK NORMAL 20 090	AD/B	20	38	42	44.5	34	51	90	M16X1	B1500
F1B509H-HCNL32120	BT50 ADB HYDRAULIC CHUCK NORMAL 32 120	AD/B	32	60	64	70.25	62.5	61	120	M16X1	B1500

Balancing G2.5 @ 25000 RPM

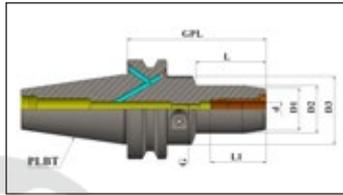
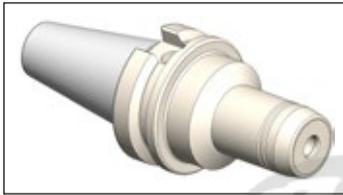
HYDRAULIC CHUCK

PLBT30 - HCNL



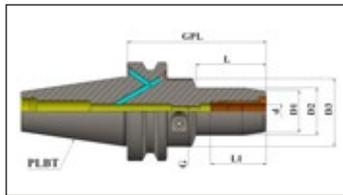
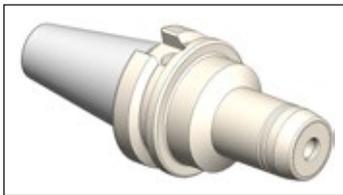
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B321H-HCNL06055	PLBT30 AD HYDRAULIC CHUCK NORMAL 06 055	AD	6	22.8	26	46	17.8	37	55	M5	B1500
F1B321H-HCNL08055	PLBT30 AD HYDRAULIC CHUCK NORMAL 08 055	AD	8	24.8	28	46	18.4	37	55	M6	B1500
F1B321H-HCNL10055	PLBT30 AD HYDRAULIC CHUCK NORMAL 10 055	AD	10	26.8	30	46	19	41	55	M8X1	B1500
F1B321H-HCNL12055	PLBT30 AD HYDRAULIC CHUCK NORMAL 12 055	AD	12	28.8	32	46	19.5	46	55	M10X1	B1500
F1B321H-HCNL16090	PLBT30 AD HYDRAULIC CHUCK NORMAL 16 055	AD	16	34.7	38	45	50	49	90	M10X1	B1500
F1B321H-HCNL20090	PLBT30 AD HYDRAULIC CHUCK NORMAL 20 055	AD	20	37.7	42	45	50	51	90	M6	B1500

PLBT40- HCNL



ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B429H-HCNL06090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 06 090	AD/B	6	22	26	44.5	43	37	90	M5	B1500
F1B429H-HCNL08090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 08 090	AD/B	8	24	28	44.5	44.5	37	90	M6	B1500
F1B429H-HCNL10090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 10 090	AD/B	10	26	30	44.5	44.5	41	90	M8X1	B1500
F1B429H-HCNL12090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 12 090	AD/B	12	28	32	44.5	44.5	46	90	M10X1	B1500
F1B429H-HCNL16090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 16 090	AD/B	16	34	38	44.5	47.5	49	90	M12X1	B1500
F1B429H-HCNL20090	PLBT40 ADB HYDRAULIC CHUCK NORMAL 20 090	AD/B	20	37.62	42	44.5	47.5	51	90	M16X1	B1500
F1B429H-HCNL32100	PLBT40 ADB HYDRAULIC CHUCK NORMAL 32 100	AD/B	32	58.5	62	-	63	61	100	M16X1	B1500

PLBT50-HCNL

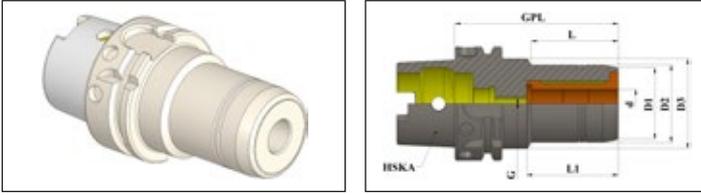


ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1B529H-HCNL12090	PLBT50 ADB HYDRAULIC CHUCK NORMAL 12 090	AD/B	12	28	32	44.5	34	46	90	M10X1	B1500
F1B529H-HCNL20090	PLBT50 ADB HYDRAULIC CHUCK NORMAL 20 090	AD/B	20	38	42	44.5	34	51	90	M16X1	B1500
F1B521H-HCNL32120	PLBT50 ADB HYDRAULIC CHUCK NORMAL 32 120	AD/B	32	60	64	70.25	62.5	61	120	M16X1	B1500

Balancing G2.5 @ 25000 RPM

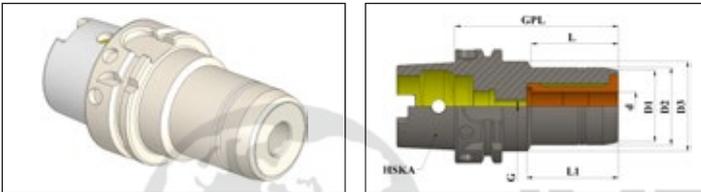
HYDRAULIC CHUCK

HSKA50 - HCNL



ITEMS	Product name	Taper	d.	D1	D2	D3	L	L1	GPL	G	Group
F1A050H-HCNL06070	HSK A50 HYDRAULIC CHUCK NORMAL 06 070	HSKA50	6	22	26	40	28	37	70	M5	B1500
F1A050H-HCNL08070	HSK A50 HYDRAULIC CHUCK NORMAL 08 070	HSKA50	8	24	28	40	28	37	70	M6	B1500
F1A050H-HCNL10075	HSK A50 HYDRAULIC CHUCK NORMAL 10 075	HSKA50	10	26	30	40	34	41	75	M8X1	B1500
F1A050H-HCNL12085	HSK A50 HYDRAULIC CHUCK NORMAL 12 085	HSKA50	12	28	32	40	44	46	85	M10X1	B1500
F1A050H-HCNL14085	HSK A50 HYDRAULIC CHUCK NORMAL 14 085	HSKA50	14	30	34	40	44	46	85	M10X1	B1500
F1A050H-HCNL16090	HSK A50 HYDRAULIC CHUCK NORMAL 16 090	HSKA50	16	34	38	53	30	49	90	M10X1	B1500
F1A050H-HCNL18090	HSK A50 HYDRAULIC CHUCK NORMAL 18 090	HSKA50	18	36	40	57	30	49	90	M10X1	B1500
F1A050H-HCNL20090	HSK A50 HYDRAULIC CHUCK NORMAL 20 090	HSKA50	20	38	42	60	29	51	90	M10X1	B1500

HSK A63 - HCNL

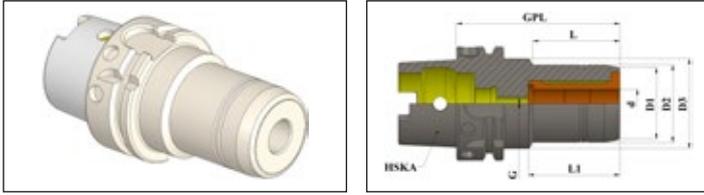


ITEMS	Product name	Taper	d.	D1	D2	D3	L	L1	GPL	G	Group
F1A063H-HCNL06070	HSK A63 HYDRAULIC CHUCK NORMAL 06 070	HSKA63	6	22	26	50	24	37	70	M5	B1500
F1A063H-HCNL08070	HSK A63 HYDRAULIC CHUCK NORMAL 08 070	HSKA63	8	24	28	50	25	37	70	M6	B1500
F1A063H-HCNL10080	HSK A63 HYDRAULIC CHUCK NORMAL 10 080	HSKA63	10	26	30	50	35	41	80	M8X1	B1500
F1A063H-HCNL12085	HSK A63 HYDRAULIC CHUCK NORMAL 12 085	HSKA63	12	28	32	50	40	46	85	M10X1	B1500
F1A063H-HCNL14085	HSK A63 HYDRAULIC CHUCK NORMAL 14 085	HSKA63	14	30	34	50	40	46	85	M10X1	B1500
F1A063H-HCNL16090	HSK A63 HYDRAULIC CHUCK NORMAL 16 090	HSKA63	16	34	38	50	46	49	90	M12x1	B1500
F1A063H-HCNL18090	HSK A63 HYDRAULIC CHUCK NORMAL 18 090	HSKA63	18	36	40	50	47	49	90	M12x1	B1500
F1A063H-HCNL20090	HSK A63 HYDRAULIC CHUCK NORMAL 20 090	HSKA63	20	38	42	50	48	51	90	M16X1	B1500
F1A063H-HCNL25120	HSK A63 HYDRAULIC CHUCK NORMAL 25 120	HSKA63	25	53	57	-	94	57	120	M16X1	B1500
F1A063H-HCNL32125	HSK A63 HYDRAULIC CHUCK NORMAL 32 125	HSKA63	32	58	62	-	99	61	125	M16X1	B1500

Balancing G2.5 @ 25000 RPM

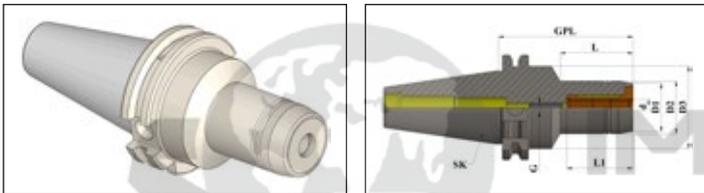
HYDRAULIC CHUCK

HSK A100 - HCNL



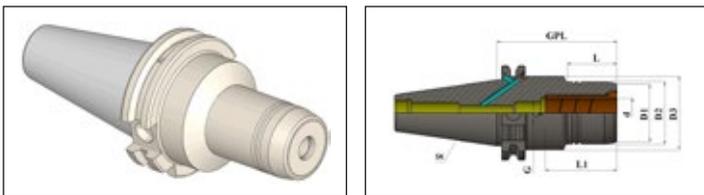
ITEMS	Product name	Taper	d.	D1	D2	D3	L	L1	GPL	G	Group
F1A100H-HCNL06075	HSK A100 HYDRAULIC CHUCK NORMAL 06 075	HSKA100	6	22	26	50	26	37	75	M5	B1500
F1A100H-HCNL08075	HSK A100 HYDRAULIC CHUCK NORMAL 08 075	HSKA100	8	24	28	50	26	37	75	M6	B1500
F1A100H-HCNL10090	HSK A100 HYDRAULIC CHUCK NORMAL 10 090	HSKA100	10	26	30	50	42	41	90	M8X1	B1500
F1A100H-HCNL12095	HSK A100 HYDRAULIC CHUCK NORMAL 12 095	HSKA100	12	28	32	50	47	46	95	M10X1	B1500
F1A100H-HCNL14095	HSK A100 HYDRAULIC CHUCK NORMAL 14 095	HSKA100	14	30	34	50	47	46	95	M10X1	B1500
F1A100H-HCNL16100	HSK A100 HYDRAULIC CHUCK NORMAL 16 100	HSKA100	16	34	38	50	53	49	100	M12X1	B1500
F1A100H-HCNL18100	HSK A100 HYDRAULIC CHUCK NORMAL 18 100	HSKA100	18	36	40	50	53	49	100	M12X1	B1500
F1A100H-HCNL20105	HSK A100 HYDRAULIC CHUCK NORMAL 20 105	HSKA100	20	38	42	50	59	51	105	M16X1	B1500
F1A100H-HCNL25110	HSK A100 HYDRAULIC CHUCK NORMAL 25 110	HSKA100	25	53	57	63	62	57	110	M16X1	B1500
F1A100H-HCNL32110	HSK A100 HYDRAULIC CHUCK NORMAL 32 110	HSKA100	32	60	64	75	62	61	110	M16X1	B1500

SK30 - HCNL



ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1S301H-HCNL06055	SK30 AD HYDRAULIC CHUCK NORMAL 06 055	AD	6	23	26	45	20	37	55	M5	B1500
F1S301H-HCNL08055	SK30 AD HYDRAULIC CHUCK NORMAL 08 055	AD	8	25	28	45	20	37	55	M6	B1500
F1S301H-HCNL10055	SK30 AD HYDRAULIC CHUCK NORMAL 10 055	AD	10	27	30	45	21	41	55	M8X1	B1500
F1S301H-HCNL12055	SK30 AD HYDRAULIC CHUCK NORMAL 12 055	AD	12	29	32	45	22	46	55	M10X1	B1500
F1S301H-HCNL16090	SK30 AD HYDRAULIC CHUCK NORMAL 16 090	AD	16	35	38	45	50	49	90	M6	B1500
F1S301H-HCNL20090	SK30 AD HYDRAULIC CHUCK NORMAL 20 090	AD	20	38	42	45	50	51	90	M6	B1500

SK40 - HCNL



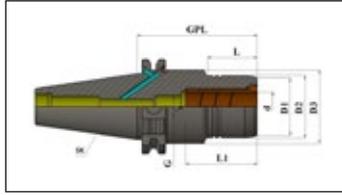
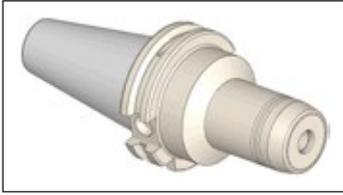
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	GPL	G	Group
F1S409H-HCNL06081	SK40 ADB HYDRAULIC CHUCK NORMAL 06 081	AD/B	6	22	26	49.5	29.5	37	80.5	M5	B1500
F1S409H-HCNL08081	SK40 ADB HYDRAULIC CHUCK NORMAL 08 081	AD/B	8	24	28	49.5	30	37	80.5	M6	B1500
F1S409H-HCNL10081	SK40 ADB HYDRAULIC CHUCK NORMAL 10 081	AD/B	10	26	30	49.5	31	41	80.5	M8X1	B1500
F1S409H-HCNL12081	SK40 ADB HYDRAULIC CHUCK NORMAL 12 081	AD/B	12	28	32	49.5	31.5	46	80.5	M10X1	B1500
F1S409H-HCNL16081	SK40 ADB HYDRAULIC CHUCK NORMAL 16 081	AD/B	16	34	38	49.5	33	49	80.5	M12X1	B1500
F1S409H-HCNL18081	SK40 ADB HYDRAULIC CHUCK NORMAL 18 081	AD/B	18	38.25	42	49.5	34.2	52.5	80.5	M12X1	B1500
F1S409H-HCNL20081	SK40 ADB HYDRAULIC CHUCK NORMAL 20 081	AD/B	20	38	42	49.5	34	57	80.5	M16X1	B1500
F1S409H-HCNL25081	SK40 ADB HYDRAULIC CHUCK NORMAL 25 081	AD/B	25	53	55	66	22	57	80.5	M16X1	B1500
F1S409H-HCNL32081	SK40 ADB HYDRAULIC CHUCK NORMAL 32 081	AD/B	32	60	63	80	25.5	61	80.5	M16X1	B1500

Balancing G2.5 @ 25000 RPM

HYDRAULIC CHUCK

HCNL HYDRAULIC CHUCK-NORMAL

SK50 - HCNL



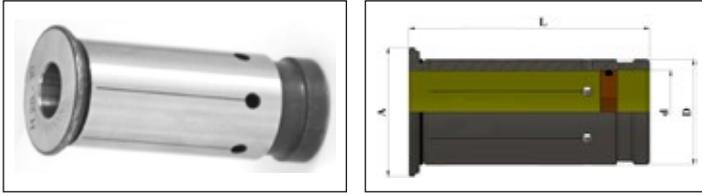
ITEMS	Product name	Form	d.	D1	D2	D3	L	L1	G	GPL	Group
F1S509H-HCNL20081	SK50 ADB HYDRAULIC CHUCK NORMAL 20 081	AD/B	20	38	42	49.5	34	51	M16X1	80.5	B1500
F1S509H-HCNL32103	SK50 ADB HYDRAULIC CHUCK NORMAL 32 103	AD/B	32	60	64	70	62.5	61	M16X1	103.2	B1500



Balancing G2.5 @ 25000 RPM

HYDRAULIC CHUCK

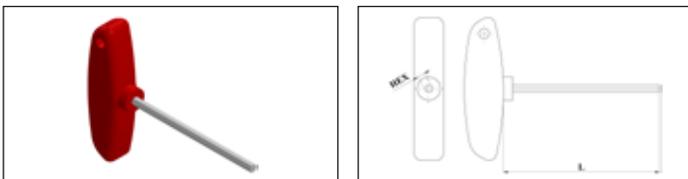
Reduction Sleeve



ITEMS	Product name	D	d.	A	L	Group
F16200-12D03	HYDRAULIC CHUCK REDUCTION SLEEVE 12 D03	12	3	16.5	44	B1500
F16200-12D04	HYDRAULIC CHUCK REDUCTION SLEEVE 12 D04	12	4	16.5	44	B1500
F16200-12D06	HYDRAULIC CHUCK REDUCTION SLEEVE 12 D06	12	6	16.5	44	B1500
F16200-12D08	HYDRAULIC CHUCK REDUCTION SLEEVE 12 D08	12	8	16.5	44	B1500
F16200-20D03	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D03	20	3	24	52.5	B1500
F16200-20D04	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D04	20	4	24	52.5	B1500
F16200-20D06	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D06	20	6	24	52.5	B1500
F16200-20D08	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D08	20	8	24	52.5	B1500
F16200-20D10	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D10	20	10	24	52.5	B1500
F16200-20D12	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D12	20	12	24	52.5	B1500
F16200-20D14	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D14	20	14	24	52.5	B1500
F16200-20D16	HYDRAULIC CHUCK REDUCTION SLEEVE 20 D16	20	16	24	52.5	B1500
F16200-32D06	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D06	32	6	39	63.2	B1500
F16200-32D08	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D08	32	8	39	63.2	B1500
F16200-32D10	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D10	32	10	39	63.2	B1500
F16200-32D12	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D12	32	12	39	63.2	B1500
F16200-32D14	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D14	32	14	39	63.2	B1500
F16200-32D16	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D16	32	16	39	63.2	B1500
F16200-32D18	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D18	32	18	39	63.2	B1500
F16200-32D20	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D20	32	20	39	63.2	B1500
F16200-32D25	HYDRAULIC CHUCK REDUCTION SLEEVE 32 D25	32	25	39	63.2	B1500

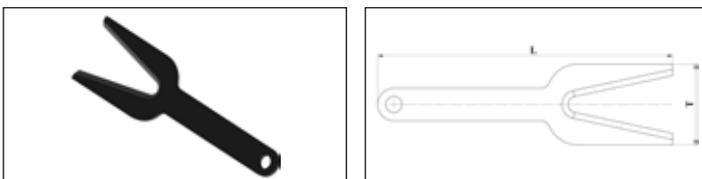
HYRS
HYDRAULIC CHUCK
REDUCTION SLEEVE

SPARES ALLEN KEY



ITEMS	Product name	L	Hex	Group
F1ALKY-100M05	ALLEN KEY	100	M5	B1500
F1ALKY-100M06	ALLEN KEY	100	M6	B1500

SLEEVE SPANNER (Remover)



ITEMS	Product name	L	T	Group
F155SP-50HRS	REDUCTION SLEEVE SPANNER	182	50	B1500

Balancing G2.5 @ 25000 RPM



SUJECIÓN DE HERRAMIENTAS DE CAMBIO FÁCIL



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Description

EZ - BASIC HOLDER

EZ- ADAPTOR

ERS - ER COLLET CHUCK (DIN6499 Form C)

EZ - Collet Chuck Holder

EMH - END MILL HOLDER - WELDON DIN 6359

EZ- End Mill Holder

SMS - FACE MILL ARBOR

EZ - Face Mill Holder

**MTA - MORSE TAPER ADAPTOR (DIN228-2
Form D)**

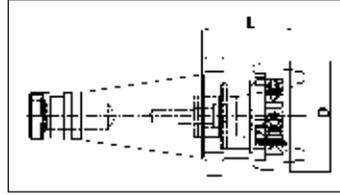
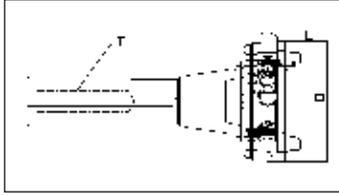
MT-Morse Taper

DCH - DRILL CHUCK ADAPTOR (DIN 238)

DCH/JTA - Adaptor

SUJECIÓN DE HERRAMIENTAS DE CAMBIO FÁCIL

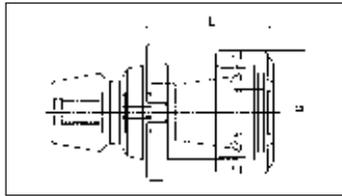
EZ- ADAPTOR



Part No.	Product name	Remarks	D	L
F1R08ZX-EZC01027	R8 IN EZ 027	R8-INCH	60	27
F1R08MX-EZC01027	R8 EZ 027	R8-MM	60	27
F1D301X-EZC01060	ISO30 EZ 060	ISO30	60	60
F1D401X-EZC01050	ISO40 EZ 050	ISO40	60	50
F1PS25X-EZC01038	PS25 EZ 038	PS25	60	38
F1PS32X-EZC01027	PS32 EZ 027	PS32	60	27

SUJECIÓN DE HERRAMIENTAS DE CAMBIO FÁCIL

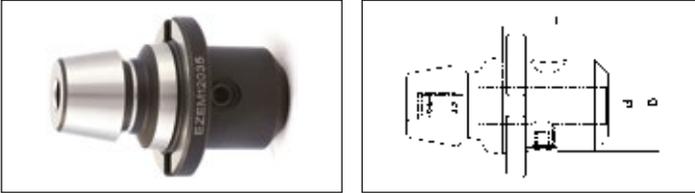
EZ - Collet Chuck Holder



Part No.	Product name	Clamping range	D	L
F1EZA1X-ERS16040	EZ CCH ER16 040	1 - 10	28	40
F1EZA1X-ERS20040	EZ CCH ER20 040	1 - 13	34	40
F1EZA1X-ERS25045	R8 CCH ER25 045	1 - 16	42	45
F1EZA1X-ERS32050	EZ CCH ER32 050	2 - 20	50	50
F1EZA1X-ERS40070	EZ CCH ER40 070	3 - 26	63	70

SUJECIÓN DE HERRAMIENTAS DE CAMBIO FÁCIL

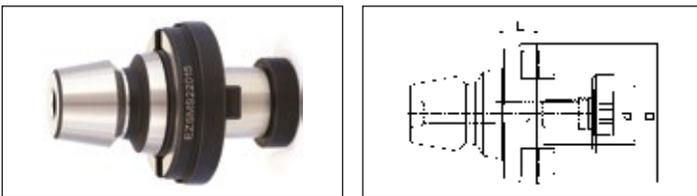
EZ- End Mill Holder



Part No.	Product name	D	d.	L
F1EZA1X-EMH06035	EZ EM 06 035	30	6	35
F1EZA1X-EMH08035	EZ EM08 035	30	8	35
F1EZA1X-EMH10035	EZ EM10 035	30	10	35
F1EZA1X-EMH12035	EZ EM12 035	30	12	35
F1EZA1X-EMH16055	EZ EM16 055	30	16	55
F1EZA1X-EMH20055	EZ EM20 055	45	12	55
F1EZA1X-EMH25075	EZ EM25 075	55	25	75

SUJECIÓN DE HERRAMIENTAS DE CAMBIO FÁCIL

EZ - Face Mill Holder

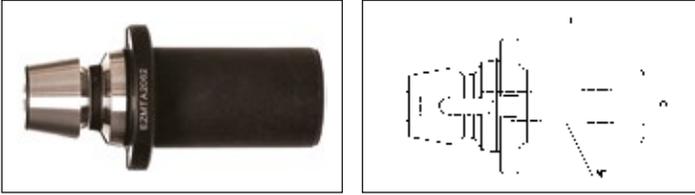


Part No.	Product name	d.	D	L
F1EZA1X-SMS16015	EZ SMS16 015	16	44	15
F1EZA1X-SMS22015	EZ SMS22 015	22	50	15

SUJECIÓN DE HERRAMIENTAS DE CAMBIO FÁCIL

MTA ADAPTADOR DE CONO MORSE
(DIN228-2 Form D)

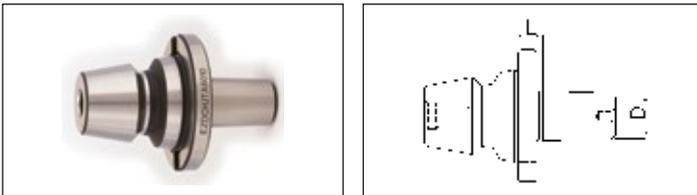
MT-Cono Morse



Part No.	Product name	MT No.	D	L
F1EZA1X-MTA01051	EZ MTA1 051	1	25	51
F1EZA1X-MTA02062	EZ MTA2 062	2	32	62
F1EZA1X-MTA03117	EZ MTA3 117	3	40	117

SUJECIÓN DE HERRAMIENTAS DE CAMBIO FÁCIL

DCH/JTA - Adaptador



Part No.	Product name	Taper	L
F1EZA1X-DCB16010	EZ B16 010	B16	10
F1EZA1X-JTA06010	EZ JTA6 010	JTA6	10

DCH ADAPTADOR DE PORTABROCAS (DIN 238)



ACCESORIOS



ACCESSORIES

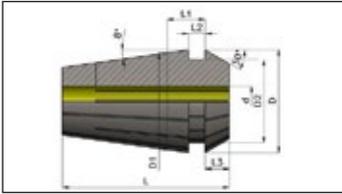
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Description	Description
ER - Collets DIN 6499	SFC - Shrink Fit Extensions
<i>ER - Collet Systems DIN 6499</i>	<i>Shrink Fit Extensions</i>
Dimensions.....	<i>Spares</i>
Concentricity.....	
ERS - Standard Collets	CYS - Cylindrical shank extensions- ERS
Collets – ER8.....	<i>Cylindrical shank -ER Mini</i>
Collets – ER11.....	<i>Cylindrical shank -ER</i>
Collets – ER16.....	<i>Spares</i>
Collets – ER20.....	<i>Accessories</i>
Collets – ER25.....	
Collets – ER32.....	
Collets – ER40.....	
Collets – ER50.....	
ERT - Tap Collets	MTA – B - Morse Taper Collet Chucks
Tap Collets ER16.....	<i>MTA Type Collet Chucks</i>
Tap Collets ER20.....	Morse Taper Collect Chuck – TANG.....
Tap Collets ER25.....	<i>MTB Type Collet Chucks</i>
Tap Collets ER32.....	Morse Taper Collect Chuck – THREADED.....
Tap Collets ER40.....	<i>Accessories</i>
Tap Collets ER50.....	
ERH - High Precision Collets	CL - CNC Lathe Holders
Collets – ER8.....	<i>CL - Collet Chucks - ER</i>
Collets – ER11.....	<i>Spares</i>
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Collets – ER20.....	
Collets – ER25.....	
Collets – ER32.....	
Collets – ER40.....	
ERN - Sealed Collets	6600 - CNC Lathe Boring Bar Sleeves
Collets – ER16.....	<i>Boring Bar Sleeve</i>
Collets – ER20.....	<i>Boring Bar Sleeve MT</i>
Collets – ER25.....	
Collets – ER32.....	
Collets – ER40.....	
Collets – ER50.....	
PS - Pull Stud	2211 - R8 Collet Chucks
<i>MAS 403 BT</i>	<i>R8 Collet Chucks</i>
<i>MAS 403 BT with TC hole</i>	<i>Accessories</i>
<i>DIN 69872 A -WITH TC</i>	
<i>DIN 69872 A -WITH TC O RING</i>	
<i>DIN 69872 B -WITH O RING WITHOUT TC</i>	
<i>JIS 6339 SIMILAR TO DIN 69872-A TC</i>	
<i>JIS 6339 SIMILAR TO DIN 69872-A</i>	
<i>ISO 7388 -WITH TC HOLE</i>	
<i>ISO 7388 WITH TC O RING</i>	
<i>MAZAK WITH TC</i>	
<i>MAZAK WITH TC HOLE AND O RING</i>	
<i>MAS 403 BT with TC hole (Brother M\C)</i>	
5500 - ER Nut	55TB - Tool Clamping Device
<i>Hexagonal Nut</i>	<i>Tool Clamping Device HSK</i>
<i>Mini Nut</i>	<i>Tool Clamping Device ISO</i>
<i>Slotted Nut</i>	
55SP - Spanner	66TS - Test Bars
<i>Spanner For Hexagonal Nut</i>	<i>Test Bars – ISO Taper</i>
<i>Spanner For Mini Nut</i>	<i>Test Bars - HSK Taper</i>
<i>Spanner For Slotted Nut</i>	
	ATC - ATC “0” Setting Mandrel
	<i>ATC “0” Setting - ISO</i>
	<i>ATC “0” Setting - HSK</i>
	KDCH - Drill Chucks
	<i>Drill Chucks</i>
	CTUB - Coolant Tube
	<i>HSK -A</i>
	SPCT - Spanner For Coolant tube
	<i>HSK -A</i>

ACCESSORIES

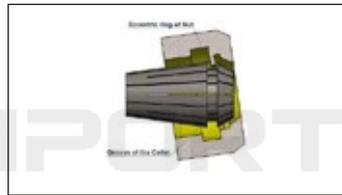
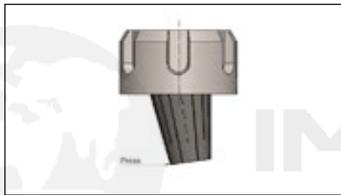
ER Collet Systems DIN 6499

Dimensions



Part No.	L	L1	L2	L3	D	D1	D2
ER 8	13.5	12.98	1.2	1.5	8.5	8.0	6.5
ER 11	18.0	3.80	2.0	2.5	11.5	11.0	9.5
ER 16	27.5	6.26	2.7	4.01	17.0	16.0	13.8
ER 20	31.5	6.36	2.8	4.8	21.0	20.0	17.4
ER 25	34.0	6.66	3.1	5.0	26.0	25.0	22.0
ER 32	40.0	7.16	3.6	5.5	33.0	32.0	29.2
ER 40	46.0	7.66	4.1	7.0	41.0	40.0	36.2
ER 50	60.0	12.60	5.5	8.5	52.0	50.0	46.0

Concentricity



Method of Insertion & Release of ER Collets

1. Insert collet into nut at angle as shown to engage extraction tongue in groove of collet
2. Screw nut onto collet with collet securely in nut
3. Insert tool to be gripped and lock nut

1. Hold nut in vertical position
2. Press collet side ways as shown by the arrow to release the collet from nut

Clamping range	L	Max T.I.R.
1.0 - 1.6	6	0.015
1.6 - 3.0	10	
3.0 - 6.0	16	
6.0 - 10.0	25	
10.0 - 18.0	40	0.020
18.0 - 26.0	50	
26.0 - 34.0	60	0.025

ACCESSORIES

ERS Standard Collets



Collets – ER8

Part No.	Product name	(D) RANGE
F1ERSM-08010	COLLETS STANDARD - METRIC ER08 010	1.0 – 0.5
F1ERSM-08015	COLLETS STANDARD - METRIC ER08 015	1.5 – 1.0
F1ERSM-08020	COLLETS STANDARD - METRIC ER08 020	2.0 - 1.5
F1ERSM-08025	COLLETS STANDARD - METRIC ER08 025	2.5 – 2.0
F1ERSM-08030	COLLETS STANDARD - METRIC ER08 030	3.0 – 2.5
F1ERSM-08035	COLLETS STANDARD - METRIC ER08 035	3.5 – 3.0
F1ERSM-08040	COLLETS STANDARD - METRIC ER08 040	4.0 – 3.5
F1ERSM-08045	COLLETS STANDARD - METRIC ER08 045	4.5 – 4.0
F1ERSM-08050	COLLETS - STANDARD - METRIC ER08 050	5.0 - 4.5
F1ERSM-08SET	COLLETS - STANDARD - METRIC ER08 SET	9 Pcs

Collets – ER11

Part No.	Product name	(D) RANGE
F1ERSM-11010	COLLETS STANDARD - METRIC ER11 010	1.0 - 0.5
F1ERSM-11015	COLLETS STANDARD - METRIC ER11 015	1.5 - 1.0
F1ERSM-11020	COLLETS STANDARD - METRIC ER11 020	2.0 - 1.5
F1ERSM-11025	COLLETS STANDARD - METRIC ER11 025	2.5 - 2.0
F1ERSM-11030	COLLETS STANDARD - METRIC ER11 030	3.0 - 2.5
F1ERSM-11035	COLLETS STANDARD - METRIC ER11 035	3.5 - 3.0
F1ERSM-11040	COLLETS STANDARD - METRIC ER11 040	4.0 - 3.5
F1ERSM-11045	COLLETS STANDARD - METRIC ER11 045	4.5 - 4.0
F1ERSM-11050	COLLETS STANDARD - METRIC ER11 050	5.0 - 4.5
F1ERSM-11055	COLLETS STANDARD - METRIC ER11 055	5.5 - 5.0
F1ERSM-11060	COLLETS STANDARD - METRIC ER11 060	6.0 - 5.5
F1ERSM-11065	COLLETS - STANDARD - METRIC ER11 065	6.5 - 6.0
F1ERSM-11070	COLLETS - STANDARD - METRIC ER11 070	7.0 - 6.5
F1ERSM-11SET	COLLETS STANDARD - METRIC ER11 SET	13PCS

Collets – ER16

Part No.	Product name	(D) RANGE
F1ERSM-16010	COLLETS - STANDARD - METRIC ER16 010	1.0 - 0.5
F1ERSM-16020	COLLETS - STANDARD - METRIC ER16 020	2.0 - 1.0
F1ERSM-16030	COLLETS - STANDARD - METRIC ER16 030	3.0 - 2.0
F1ERSM-16040	COLLETS - STANDARD - METRIC ER16 040	4.0 - 3.0
F1ERSM-16050	COLLETS - STANDARD - METRIC ER16 050	5.0 - 4.0
F1ERSM-16060	COLLETS - STANDARD - METRIC ER16 060	6.0 - 5.0
F1ERSM-16070	COLLETS - STANDARD - METRIC ER16 070	7.0 - 6.0
F1ERSM-16080	COLLETS - STANDARD - METRIC ER16 080	8.0 - 7.0
F1ERSM-16090	COLLETS - STANDARD - METRIC ER16 090	9.0 - 8.0
F1ERSM-16100	COLLETS - STANDARD - METRIC ER16 100	10.0 - 9.0
F1ERSM-16SET	COLLETS - STANDARD - METRIC ER16 SET	10PCS

ACCESSORIES

Collets – ER20

Part No.	Product name	(D) RANGE
F1ERSM-20020	COLLETS - STANDARD - METRIC ER20 020	2.0 – 1.0
F1ERSM-20030	COLLETS - STANDARD - METRIC ER20 030	3.0 – 2.0
F1ERSM-20040	COLLETS - STANDARD - METRIC ER20 040	4.0 – 3.0
F1ERSM-20050	COLLETS - STANDARD - METRIC ER20 050	5.0 – 4.0
F1ERSM-20060	COLLETS - STANDARD - METRIC ER20 060	6.0 – 5.0
F1ERSM-20070	COLLETS - STANDARD - METRIC ER20 070	7.0 – 6.0
F1ERSM-20080	COLLETS - STANDARD - METRIC ER20 080	8.0 – 7.0
F1ERSM-20090	COLLETS - STANDARD - METRIC ER20 090	9.0 – 8.0
F1ERSM-20100	COLLETS - STANDARD - METRIC ER20 100	10.0 – 9.0
F1ERSM-20110	COLLETS - STANDARD - METRIC ER20 110	11.0 – 10.0
F1ERSM-20120	COLLETS - STANDARD - METRIC ER20 120	12.0 – 11.0
F1ERSM-20130	COLLETS - STANDARD - METRIC ER20 130	13.0 – 12.0
F1ERSM-20SET	COLLETS - STANDARD - METRIC ER20 SET	12 Pcs

Collets – ER25

Part No.	Product name	(D) RANGE
F1ERSM-25020	COLLETS - STANDARD - METRIC ER25 020	2.0 – 1.0
F1ERSM-25030	COLLETS - STANDARD - METRIC ER25 030	3.0 – 2.0
F1ERSM-25040	COLLETS - STANDARD - METRIC ER25 040	4.0 – 3.0
F1ERSM-25050	COLLETS - STANDARD - METRIC ER25 050	5.0 – 4.0
F1ERSM-25060	COLLETS - STANDARD - METRIC ER25 060	6.0 – 5.0
F1ERSM-25070	COLLETS - STANDARD - METRIC ER25 070	7.0 – 6.0
F1ERSM-25080	COLLETS - STANDARD - METRIC ER25 080	8.0 – 7.0
F1ERSM-25090	COLLETS - STANDARD - METRIC ER25 090	9.0 – 8.0
F1ERSM-25100	COLLETS - STANDARD - METRIC ER25 100	10.0 – 9.0
F1ERSM-25110	COLLETS - STANDARD - METRIC ER25 110	11.0 – 10.0
F1ERSM-25120	COLLETS - STANDARD - METRIC ER25 120	12.0 – 11.0
F1ERSM-25130	COLLETS - STANDARD - METRIC ER25 130	13.0 – 12.0
F1ERSM-25140	COLLETS - STANDARD - METRIC ER25 140	14.0 – 13.0
F1ERSM-25150	COLLETS - STANDARD - METRIC ER25 150	15.0 – 14.0
F1ERSM-25160	COLLETS - STANDARD - METRIC ER25 160	16.0 – 15.0
F1ERSM-25SET	COLLETS - STANDARD - METRIC ER25 SET	15 Pcs

Collets – ER32

Part No.	Product name	(D) RANGE
F1ERSM-32030	COLLETS - STANDARD - METRIC ER32 030	3.0 – 2.0
F1ERSM-32040	COLLETS - STANDARD - METRIC ER32 040	4.0 – 3.0
F1ERSM-32050	COLLETS - STANDARD - METRIC ER32 050	5.0 – 4.0
F1ERSM-32060	COLLETS - STANDARD - METRIC ER32 060	6.0 – 5.0
F1ERSM-32070	COLLETS - STANDARD - METRIC ER32 070	7.0 – 6.0
F1ERSM-32080	COLLETS - STANDARD - METRIC ER32 080	8.0 – 7.0
F1ERSM-32090	COLLETS - STANDARD - METRIC ER32 090	9.0 – 8.0
F1ERSM-32100	COLLETS - STANDARD - METRIC ER32 100	10.0 – 9.0
F1ERSM-32110	COLLETS - STANDARD - METRIC ER32 110	11.0 – 10.0
F1ERSM-32120	COLLETS - STANDARD - METRIC ER32 120	12.0 – 11.0
F1ERSM-32130	COLLETS - STANDARD - METRIC ER32 130	13.0 – 12.0
F1ERSM-32140	COLLETS - STANDARD - METRIC ER32 140	14.0 – 13.0
F1ERSM-32150	COLLETS - STANDARD - METRIC ER32 150	15.0 – 14.0
F1ERSM-32160	COLLETS - STANDARD - METRIC ER32 160	16.0 – 15.0
F1ERSM-32170	COLLETS - STANDARD - METRIC ER32 170	17.0 – 16.0
F1ERSM-32180	COLLETS - STANDARD - METRIC ER32 180	18.0 – 17.0
F1ERSM-32190	COLLETS - STANDARD - METRIC ER32 190	19.0 – 18.0
F1ERSM-32200	COLLETS - STANDARD - METRIC ER32 200	20.0 – 19.0
F1ERSM-32SET	COLLETS - STANDARD - METRIC ER32 SET	18Pcs

ACCESSORIES

Collets – ER40

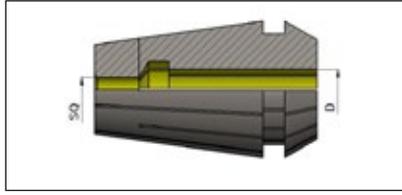
Part No.	Product name	(D) RANGE
F1ERSM-40040	COLLETS - STANDARD - METRIC ER40 040	4.0 – 3.0
F1ERSM-40050	COLLETS - STANDARD - METRIC ER40 050	5.0 – 4.0
F1ERSM-40060	COLLETS - STANDARD - METRIC ER40 060	6.0 - 5.0
F1ERSM-40070	COLLETS - STANDARD - METRIC ER40 070	7.0 – 6.0
F1ERSM-40080	COLLETS - STANDARD - METRIC ER40 080	8.0 – 7.0
F1ERSM-40090	COLLETS - STANDARD - METRIC ER40 090	9.0 – 8.0
F1ERSM-40100	COLLETS - STANDARD - METRIC ER40 100	10.0 – 9.0
F1ERSM-40110	COLLETS - STANDARD - METRIC ER40 110	11.0 – 10.0
F1ERSM-40120	COLLETS - STANDARD - METRIC ER40 120	12.0 – 11.0
F1ERSM-40130	COLLETS - STANDARD - METRIC ER40 130	13.0 – 12.0
F1ERSM-40140	COLLETS - STANDARD - METRIC ER40 140	14.0 – 13.0
F1ERSM-40150	COLLETS - STANDARD - METRIC ER40 150	15.0 – 14.0
F1ERSM-40160	COLLETS - STANDARD - METRIC ER40 160	16.0 – 15.0
F1ERSM-40170	COLLETS - STANDARD - METRIC ER40 170	17.0 – 16.0
F1ERSM-40180	COLLETS - STANDARD - METRIC ER40 180	18.0 – 17.0
F1ERSM-40190	COLLETS - STANDARD - METRIC ER40 190	19.0 – 18.0
F1ERSM-40200	COLLETS - STANDARD - METRIC ER40 200	20.0 – 19.0
F1ERSM-40210	COLLETS - STANDARD - METRIC ER40 210	21.0 – 20.0
F1ERSM-40220	COLLETS - STANDARD - METRIC ER40 220	22.0 – 21.0
F1ERSM-40230	COLLETS - STANDARD - METRIC ER40 230	23.0 – 22.0
F1ERSM-40240	COLLETS - STANDARD - METRIC ER40 240	24.0 – 23.0
F1ERSM-40250	COLLETS - STANDARD - METRIC ER40 250	25.0 – 24.0
F1ERSM-40260	COLLETS - STANDARD - METRIC ER40 260	26.0 – 25.0
F1ERSM-40SET	COLLETS - STANDARD - METRIC ER40 SET	23 Pcs

Collets – ER50

Part No.	Product name	(D) RANGE
F1ERSM-50120	COLLETS - STANDARD – METRIC ER50 120	12.0 – 10.0
F1ERSM-50140	COLLETS - STANDARD - METRIC ER50 140	14.0 – 12.0
F1ERSM-50160	COLLETS - STANDARD - METRIC ER50 160	16.0 – 14.0
F1ERSM-50180	COLLETS - STANDARD - METRIC ER50 180	18.0 – 16.0
F1ERSM-50200	COLLETS - STANDARD - METRIC ER50 200	20.0 – 18.0
F1ERSM-50220	COLLETS - STANDARD - METRIC ER50 220	22.0 – 20.0
F1ERSM-50240	COLLETS - STANDARD - METRIC ER50 240	24.0 – 22.0
F1ERSM-50260	COLLETS - STANDARD - METRIC ER50 260	26.0 – 24.0
F1ERSM-50280	COLLETS - STANDARD - METRIC ER50 280	28.0 – 26.0
F1ERSM-50300	COLLETS - STANDARD - METRIC ER50 300	30.0 – 28.0
F1ERSM-50320	COLLETS - STANDARD - METRIC ER50 320	32.0 – 30.0
F1ERSM-50340	COLLETS - STANDARD - METRIC ER50 340	34.0 – 32.0
F1ERSM-50SET	COLLETS - STANDARD - METRIC ER50 SET	12 Pcs

ACCESSORIES

ERT - Tap Collets



ER Collets DIN 6499

Tap Collets ER16

Part No.	Product name	DIA	SQ
F1ERTX-16501	TAP COLLETS ER16 D 3.5 X SQ 2.7	3.50	2.70
F1ERTX-16502	TAP COLLETS ER16 D 4.0 X SQ 3.0	4.00	3.00
F1ERTX-16503	TAP COLLETS ER16 D 4.5 X SQ 3.4	4.50	3.40
F1ERTX-16504	TAP COLLETS ER16 D 5.5 X SQ 4.3	5.50	4.30
F1ERTX-16505	TAP COLLETS ER16 D 6.0 X SQ 4.9	6.00	4.90
F1ERTX-16506	TAP COLLETS ER16 D 7.0 X SQ 5.5	7.00	5.50
F1ERTX-16507	TAP COLLETS ER16 D 8.0 X SQ 6.2	8.00	6.20
F1ERTX-16508	TAP COLLETS ER16 D 9.0 X SQ 7.0	9.00	7.00
F1ERTX-16509	TAP COLLETS ER16 D 10.0 X SQ 8.0	10.00	8.00

Tap Collets ER20

Part No.	Product name	DIA	SQ
F1ERTX-20501	TAP COLLETS ER20 D 3.5 X SQ 2.7	3.50	2.70
F1ERTX-20502	TAP COLLETS ER20 D 4.0 X SQ 3.0	4.00	3.00
F1ERTX-20503	TAP COLLETS ER20 D 4.5 X SQ 3.4	4.50	3.40
F1ERTX-20504	TAP COLLETS ER20 D 5.5 X SQ 4.3	5.50	4.30
F1ERTX-20505	TAP COLLETS ER20 D 6.0 X SQ 4.9	6.00	4.90
F1ERTX-20506	TAP COLLETS ER20 D 7.0 X SQ 5.5	7.00	5.50
F1ERTX-20507	TAP COLLETS ER20 D 8.0 X SQ 6.2	8.00	6.20
F1ERTX-20508	TAP COLLETS ER20 D 9.0 X SQ 7.0	9.00	7.00
F1ERTX-20509	TAP COLLETS ER20 D 10.0 X SQ 8.0	10.00	8.00

Tap Collets ER25

Part No.	Product name	DIA	SQ
F1ERTX-25501	TAP COLLETS ER25 D 3.5 X SQ 2.7	3.50	2.70
F1ERTX-25502	TAP COLLETS ER25 D 4.0 X SQ 3.0	4.00	3.00
F1ERTX-25503	TAP COLLETS ER25D 4.5 X SQ 3.4	4.50	3.40
F1ERTX-25504	TAP COLLETS ER25 D 5.5 X SQ 4.3	5.50	4.30
F1ERTX-25505	TAP COLLETS ER25 D 6.0 X SQ 4.9	6.00	4.90
F1ERTX-25506	TAP COLLETS ER25 D 7.0 X SQ 5.5	7.00	5.50
F1ERTX-25507	TAP COLLETS ER25 8.0 X SQ 6.2	8.00	6.20
F1ERTX-25508	TAP COLLETS ER25 D 9.0 X SQ 7.0	9.00	7.00
F1ERTX-25509	TAP COLLETS ER25 D 10.0 X SQ 8.0	10.00	8.00
F1ERTX-25510	TAP COLLETS ER25 D 11.0 X SQ 9.0	11	9.00
F1ERTX-25511	TAP COLLETS ER25 D 12.0 X SQ 9.0	12.00	9.00
F1ERTX-25512	TAP COLLETS ER25 D 12.5 X SQ 10.0	12.50	10.00
F1ERTX-25513	TAP COLLETS ER25 D 14.0 X SQ 11.0	14.00	11.00
F1ERTX-25514	TAP COLLETS ER25 D 16.0 X SQ 12.0	16.00	12.00
F1ERTX-25515	TAP COLLETS ER25 D 6.3 X SQ 4.9	6.30	4.90
F1ERTX-25516	TAP COLLETS ER25 D 9.0 X SQ 7.1	9.00	7.1

ACCESSORIES

Tap Collets ER32

Part No.	Product name	DIA	SQ
F1ERTX-32503	TAP COLLETS ER32 D 4.5 X SQ 3.4	4.50	3.40
F1ERTX-32504	TAP COLLETS ER32 D 5.5 X SQ 4.3	5.50	4.30
F1ERTX-32505	TAP COLLETS ER32 D 6.0 X SQ 4.9	6.00	4.90
F1ERTX-32506	TAP COLLETS ER32 D 7.0 X SQ 5.5	7.00	5.50
F1ERTX-32507	TAP COLLETS ER32 D 8.0 X SQ 6.2	8.00	6.20
F1ERTX-32508	TAP COLLETS ER32 D 9.0 X SQ 7.0	9.00	7.00
F1ERTX-32509	TAP COLLETS ER32 D 10.0 X SQ 8.0	10.00	8.00
F1ERTX-32510	TAP COLLETS ER32 D 11.0 X SQ 9.0	11.00	9.00
F1ERTX-32511	TAP COLLETS ER32 D 12.0 X SQ 9.0	12.00	9.00
F1ERTX-32513	TAP COLLETS ER32 D 14.0 X SQ 11.0	14.00	11.00
F1ERTX-32514	TAP COLLETS ER32 D 16.0 X SQ 12.0	16.00	12.00
F1ERTX-32512	TAP COLLETS ER32 D 12.5 X SQ 10.0	12.50	10.00
F1ERTX-32516	TAP COLLETS ER32 D 9.0 X SQ 7.1	9.00	7.1
F1ERTX-32517	TAP COLLETS ER32 D 13.7 X SQ 11.0	13.70	11.0
F1ERTX-32518	TAP COLLETS ER32 D 14.0 X SQ 11.2	14.00	11.2
F1ERTX-32519	TAP COLLETS ER32 D 18.0 X SQ 14.5	18.00	14.50
F1ERTX-32520	TAP COLLETS ER32 D 6.3 X SQ 5.0	6.30	5.0

Tap Collets ER40

Part No.	Product name	DIA	SQ
F1ERTX-40506	TAP COLLETS ER40 D 7.0 X SQ 5.5	7.0	5.50
F1ERTX-40507	TAP COLLETS ER40 D 8.0 X SQ 6.2	8.00	6.20
F1ERTX-40508	TAP COLLETS ER40 D 9.0 X SQ 7.0	9.00	7.00
F1ERTX-40509	TAP COLLETS ER40 D 10.0 X SQ 8.0	10.0	8.0
F1ERTX-40510	TAP COLLETS ER40 D 11.0 X SQ 9.0	11.0	9.0
F1ERTX-40511	TAP COLLETS ER40 D 12.0 X SQ 9.0	12.0	9.0
F1ERTX-40513	TAP COLLETS ER40 D 14.0 X SQ 11.0	14.0	11.0
F1ERTX-40514	TAP COLLETS ER40 D 16.0 X SQ 12.0	16.0	12.0
F1ERTX-40519	TAP COLLETS ER40 D 18.0 X SQ 14.5	18.0	14.50
F1ERTX-40505	TAP COLLETS ER40 D 6.0 X SQ 4.9	6.0	4.9
F1ERTX-40522	TAP COLLETS ER40 D 20 X SQ 16.0	20.0	16.0
F1ERTX-40503	TAP COLLETS ER40 D 4.5 X SQ 3.4	4.50	3.40
F1ERTX-40512	TAP COLLETS ER40 D 12.5 X SQ 10.0	12.5	10.0
F1ERTX-40515	TAP COLLETS ER40 D 6.3 X SQ 4.9	6.30	4.90
F1ERTX-40521	TAP COLLETS ER40 D 17.5 X SQ 13.0	17.50	13.0
F1ERTX-40524	TAP COLLETS ER40 D 25 X SQ 20	25.0	20.0

Tap Collets ER50

Part No.	Product name	DIA	SQ
F1ERTX-50507	TAP COLLETS ER50 D 8.0 X SQ 6.2	8.0	6.2
F1ERTX-50508	TAP COLLETS ER50 D 9.0 X SQ 7.0	9.0	7.0
F1ERTX-50509	TAP COLLETS ER50 D 10.0 X SQ 8.0	10.0	8.0
F1ERTX-50510	TAP COLLETS ER50 D 11.0 X SQ 9.0	11.0	9.0
F1ERTX-50511	TAP COLLETS ER50 D 12.0 X SQ 9.0	12.0	9.0
F1ERTX-50513	TAP COLLETS ER50 D 14.0 X SQ 11.0	14.0	11.0
F1ERTX-50514	TAP COLLETS ER50 D 16.0 X SQ 12.0	16.0	12.0
F1ERTX-50519	TAP COLLETS ER50 D 18.0 X SQ 14.5	18.0	14.5
F1ERTX-50522	TAP COLLETS ER50 D 20.0 X SQ 16.0	20.0	16.0
F1ERTX-50523	TAP COLLETS ER50 D 22.0 X SQ 18.0	22.0	18.0
F1ERTX-50524	TAP COLLETS ER50 D 25.0 X SQ 20.0	25.0	20.0
F1ERTX-50525	TAP COLLETS ER50 D 28.0 X SQ 22.0	28.0	22.0
F1ERTX-50526	TAP COLLETS ER50 D 32.0 X SQ 24.0	32.0	24.0

ACCESSORIES

ERH - High Precision Collets



Collets – ER8

Part No.	Product name	(D) RANGE
F1ERHM-08010	HP COLLETS - METRIC ER08 010	1.0 - 0.5
F1ERHM-08015	HP COLLETS - METRIC ER08 015	1.5 - 1.0
F1ERHM-08020	HP COLLETS - METRIC ER08 020	2.0 - 1.5
F1ERHM-08025	HP COLLETS - METRIC ER08 025	2.5 - 2.0
F1ERHM-08030	HP COLLETS - METRIC ER08 030	3.0 - 2.5
F1ERHM-08035	HP COLLETS - METRIC ER08 035	3.5 - 3.0
F1ERHM-08040	HP COLLETS - METRIC ER08 040	4.0 - 3.5
F1ERHM-08045	HP COLLETS - METRIC ER08 045	4.5 - 4.0
F1ERHM-08050	HP COLLETS - METRIC ER08 050	5.0 - 4.5
F1ERHM-08SET	HP COLLETS - METRIC ER08 SET	9PCS

Collets – ER11

Part No.	Product name	(D) RANGE
F1ERHM-11010	HP COLLETS - METRIC ER11 010	1.0 - 0.5
F1ERHM-11015	HP COLLETS - METRIC ER11 015	1.5 - 1.0
F1ERHM-11020	HP COLLETS - METRIC ER11 020	2.0 - 1.5
F1ERHM-11025	HP COLLETS - METRIC ER11 025	2.5 - 2.0
F1ERHM-11030	HP COLLETS - METRIC ER11 030	3.0 - 2.5
F1ERHM-11040	HP COLLETS - METRIC ER11 040	4.0 - 3.5
F1ERHM-11045	HP COLLETS - METRIC ER11 045	4.5 - 4.0
F1ERHM-11050	HP COLLETS - METRIC ER11 050	5.0 - 4.5
F1ERHM-11055	HP COLLETS - METRIC ER11 055	5.5 - 5.0
F1ERHM-11060	HP COLLETS - METRIC ER11 060	6.0 - 5.5
F1ERHM-11065	HP COLLETS - METRIC ER11 065	6.5 - 6.0
F1ERHM-11070	HP COLLETS - METRIC ER11 070	7.0 - 6.5
F1ERHM-11SET	HP COLLETS - METRIC ER11 SET	13 PCS
F1ERHM-11035	HP COLLETS - METRIC ER11 035	3.5 - 3.0

Collets - ER16

Part No.	(D) RANGE	Product name
F1ERHM-16010	HP COLLETS - METRIC ER16 010	1.0 - 0.5
F1ERHM-16020	HP COLLETS - METRIC ER16 020	2.0 - 1.0
F1ERHM-16030	HP COLLETS - METRIC ER16 030	3.0 - 2.0
F1ERHM-16040	HP COLLETS - METRIC ER16 040	4.0 - 3.0
F1ERHM-16050	HP COLLETS - METRIC ER16 050	5.0 - 4.0
F1ERHM-16060	HP COLLETS - METRIC ER16 060	6.0 - 5.0
F1ERHM-16070	HP COLLETS - METRIC ER16 070	7.0 - 6.0
F1ERHM-16080	HP COLLETS - METRIC ER16 080	8.0 - 7.0
F1ERHM-16090	HP COLLETS - METRIC ER16 090	9.0 - 8.0
F1ERHM-16100	HP COLLETS - METRIC ER16 100	10.0 - 9.0
F1ERHM-16SET	HP COLLETS - METRIC ER16 SET	10 PCS

ACCESSORIES

Collets – ER20

Part No.	Product name	(D) RANGE
F1ERHM-20020	HP COLLETS - METRIC ER20 020	2.0 - 1.0
F1ERHM-20030	HP COLLETS - METRIC ER20 030	3.0 - 2.0
F1ERHM-20040	HP COLLETS - METRIC ER20 040	4.0 - 3.0
F1ERHM-20050	HP COLLETS - METRIC ER20 050	5.0 - 4.0
F1ERHM-20060	HP COLLETS - METRIC ER20 060	6.0 - 5.0
F1ERHM-20070	HP COLLETS - METRIC ER20 070	7.0 - 6.0
F1ERHM-20080	HP COLLETS - METRIC ER20 080	8.0 - 7.0
F1ERHM-20090	HP COLLETS - METRIC ER20 090	9.0 - 8.0
F1ERHM-20100	HP COLLETS - METRIC ER20 100	10.0 - 9.0
F1ERHM-20110	HP COLLETS - METRIC ER20 110	11.0 - 10.0
F1ERHM-20120	HP COLLETS - METRIC ER20 120	12.0 - 11.0
F1ERHM-20130	HP COLLETS - METRIC ER20 130	13.0 - 12.0
F1ERHM-20SET	HP COLLETS - METRIC ER20 SET	12 Pcs

Collets – ER25

Part No.	Product name	(D) RANGE
F1ERHM-25020	HP COLLETS - METRIC ER25 020	2.0 - 1.0
F1ERHM-25030	HP COLLETS - METRIC ER25 030	3.0 - 2.0
F1ERHM-25040	HP COLLETS - METRIC ER25 040	4.0 - 3.0
F1ERHM-25050	HP COLLETS - METRIC ER25 050	5.0 - 4.0
F1ERHM-25060	HP COLLETS - METRIC ER25 060	6.0 - 5.0
F1ERHM-25070	HP COLLETS - METRIC ER25 070	7.0 - 6.0
F1ERHM-25080	HP COLLETS - METRIC ER25 080	8.0 - 7.0
F1ERHM-25090	HP COLLETS - METRIC ER25 090	9.0 - 8.0
F1ERHM-25100	HP COLLETS - METRIC ER25 100	10.0 - 9.0
F1ERHM-25110	HP COLLETS - METRIC ER25 110	11.0 - 10.0
F1ERHM-25120	HP COLLETS - METRIC ER25 120	12.0 - 11.0
F1ERHM-25130	HP COLLETS - METRIC ER25 130	13.0 - 12.0
F1ERHM-25140	HP COLLETS - METRIC ER25 140	14.0 - 13.0
F1ERHM-25150	HP COLLETS - METRIC ER25 150	15.0 - 14.0
F1ERHM-25160	HP COLLETS - METRIC ER25 160	16.0 - 15.0
F1ERHM-25SET	HP COLLETS - METRIC ER25 SET	15 Pcs

Collets – ER32

Part No.	Product name	(D) RANGE
F1ERHM-32030	HP COLLETS - METRIC ER32 030	3.0 - 2.0
F1ERHM-32040	HP COLLETS - METRIC ER32 040	4.0 - 3.0
F1ERHM-32050	HP COLLETS - METRIC ER32 050	5.0 - 4.0
F1ERHM-32060	HP COLLETS - METRIC ER32 060	6.0 - 5.0
F1ERHM-32070	HP COLLETS - METRIC ER32 070	7.0 - 6.0
F1ERHM-32080	HP COLLETS - METRIC ER32 080	8.0 - 7.0
F1ERHM-32090	HP COLLETS - METRIC ER32 090	9.0 - 8.0
F1ERHM-32100	HP COLLETS - METRIC ER32 100	10.0 - 9.0
F1ERHM-32110	HP COLLETS - METRIC ER32 110	11.0 - 10.0
F1ERHM-32120	HP COLLETS - METRIC ER32 120	12.0 - 11.0
F1ERHM-32130	HP COLLETS - METRIC ER32 130	13.0 - 12.0
F1ERHM-32140	HP COLLETS - METRIC ER32 140	14.0 - 13.0
F1ERHM-32150	HP COLLETS - METRIC ER32 150	15.0 - 14.0
F1ERHM-32160	HP COLLETS - METRIC ER32 160	16.0 - 15.0
F1ERHM-32170	HP COLLETS - METRIC ER32 170	17.0 - 16.0
F1ERHM-32180	HP COLLETS - METRIC ER32 180	18.0 - 17.0
F1ERHM-32190	HP COLLETS - METRIC ER32 190	19.0 - 18.0
F1ERHM-32200	HP COLLETS - METRIC ER32 200	20.0 - 19.0
F1ERHM-32SET	HP COLLETS - METRIC ER32 SET	18 Pcs

ACCESSORIES

Collets – ER40

Part No.	Product name	(D) RANGE
F1ERHM-40040	HP COLLETS - METRIC ER40 040	4.0 - 3.0
F1ERHM-40050	HP COLLETS - METRIC ER40 050	5.0 - 4.0
F1ERHM-40060	HP COLLETS - METRIC ER40 060	6.0 - 5.0
F1ERHM-40070	HP COLLETS - METRIC ER40 070	7.0 - 6.0
F1ERHM-40080	HP COLLETS - METRIC ER40 080	8.0 - 7.0
F1ERHM-40090	HP COLLETS - METRIC ER40 090	9.0 - 8.0
F1ERHM-40100	HP COLLETS - METRIC ER40 100	10.0 - 9.0
F1ERHM-40110	HP COLLETS - METRIC ER40 110	11.0 - 10.0
F1ERHM-40120	HP COLLETS - METRIC ER40 120	12.0 - 11.0
F1ERHM-40130	HP COLLETS - METRIC ER40 130	13.0 - 12.0
F1ERHM-40140	HP COLLETS - METRIC ER40 140	14.0 - 13.0
F1ERHM-40150	HP COLLETS - METRIC ER40 150	15.0 - 14.0
F1ERHM-40160	HP COLLETS - METRIC ER40 160	16.0 - 15.0
F1ERHM-40170	HP COLLETS - METRIC ER40 170	17.0 - 16.0
F1ERHM-40180	HP COLLETS - METRIC ER40 180	18.0 - 17.0
F1ERHM-40190	HP COLLETS - METRIC ER40 190	19.0 - 18.0
F1ERHM-40200	HP COLLETS - METRIC ER40 200	20.0 - 19.0
F1ERHM-40210	HP COLLETS - METRIC ER40 210	21.0 - 20.0
F1ERHM-40220	HP COLLETS - METRIC ER40 220	22.0 - 21.0
F1ERHM-40230	HP COLLETS - METRIC ER40 230	23.0 - 22.0
F1ERHM-40240	HP COLLETS - METRIC ER40 240	24.0 - 23.0
F1ERHM-40250	HP COLLETS - METRIC ER40 250	25.0 - 24
F1ERHM-40260	HP COLLETS - METRIC ER40 260	26.0 - 25.0
F1ERHM-40SET	HP COLLETS - METRIC ER40 SET	23 Pcs



ACCESSORIES

ERN - Sealed Collets



Collets – ER16

Part No.	Product name	(D) RANGE
F1ERNM-16010	NC COLLETS - METRIC ER16 010	1
F1ERNM-16020	NC COLLETS - METRIC ER16 020	2
F1ERNM-16030	NC COLLETS - METRIC ER16 030	3
F1ERNM-16040	NC COLLETS - METRIC ER16 040	4
F1ERNM-16050	NC COLLETS - METRIC ER16 050	5
F1ERNM-16060	NC COLLETS - METRIC ER16 060	6
F1ERNM-16070	NC COLLETS - METRIC ER16 070	7
F1ERNM-16080	NC COLLETS - METRIC ER16 080	8
F1ERNM-16090	NC COLLETS - METRIC ER16 090	9
F1ERNM-16100	NC COLLETS - METRIC ER16 100	10

Collets – ER20

Part No.	Product name	(D) RANGE
F1ERNM-20020	NC COLLETS - METRIC ER20 020	2
F1ERNM-20030	NC COLLETS - METRIC ER20 030	3
F1ERNM-20040	NC COLLETS - METRIC ER20 040	4
F1ERNM-20050	NC COLLETS - METRIC ER20 050	5
F1ERNM-20060	NC COLLETS - METRIC ER20 060	6
F1ERNM-20070	NC COLLETS - METRIC ER20 070	7
F1ERNM-20080	NC COLLETS - METRIC ER20 080	8
F1ERNM-20090	NC COLLETS - METRIC ER20 090	9
F1ERNM-20100	NC COLLETS - METRIC ER20 100	10
F1ERNM-20110	NC COLLETS - METRIC ER20 110	11
F1ERNM-20120	NC COLLETS - METRIC ER20 120	12
F1ERNM-20130	NC COLLETS - METRIC ER20 130	13

ACCESSORIES

Collets – ER25

Part No.	Product name	(D) RANGE
F1ERNM-25020	NC COLLETS - METRIC ER25 020	2
F1ERNM-25030	NC COLLETS - METRIC ER25 030	3
F1ERNM-25040	NC COLLETS - METRIC ER25 040	4
F1ERNM-25050	NC COLLETS - METRIC ER25 050	5
F1ERNM-25060	NC COLLETS - METRIC ER25 060	6
F1ERNM-25070	NC COLLETS - METRIC ER25 070	7
F1ERNM-25080	NC COLLETS - METRIC ER25 080	8
F1ERNM-25090	NC COLLETS - METRIC ER25 090	9
F1ERNM-25100	NC COLLETS - METRIC ER25 100	10
F1ERNM-25110	NC COLLETS - METRIC ER25 110	11
F1ERNM-25120	NC COLLETS - METRIC ER25 120	12
F1ERNM-25130	NC COLLETS - METRIC ER25 130	13
F1ERNM-25140	NC COLLETS - METRIC ER25 140	14
F1ERNM-25150	NC COLLETS - METRIC ER25 150	15
F1ERNM-25160	NC COLLETS - METRIC ER25 160	16

Collets – ER32

Part No.	Product name	(D) RANGE
F1ERNM-32030	ER NC COLLETS - METRIC 32 030	3
F1ERNM-32040	ER NC COLLETS - METRIC 32 040	4
F1ERNM-32050	ER NC COLLETS - METRIC 32 050	5
F1ERNM-32060	ER NC COLLETS - METRIC 32 060	6
F1ERNM-32070	ER NC COLLETS - METRIC 32 070	7
F1ERNM-32080	ER NC COLLETS - METRIC 32 080	8
F1ERNM-32090	ER NC COLLETS - METRIC 32 090	9
F1ERNM-32100	ER NC COLLETS - METRIC 32 100	10
F1ERNM-32110	ER NC COLLETS - METRIC 32 110	11
F1ERNM-32120	ER NC COLLETS - METRIC 32 120	12
F1ERNM-32130	ER NC COLLETS - METRIC 32 130	13
F1ERNM-32140	ER NC COLLETS - METRIC 32 140	14
F1ERNM-32150	ER NC COLLETS - METRIC 32 150	15
F1ERNM-32160	ER NC COLLETS - METRIC 32 160	16
F1ERNM-32170	ER NC COLLETS - METRIC 32 170	17
F1ERNM-32180	ER NC COLLETS - METRIC 32 180	18
F1ERNM-32190	ER NC COLLETS - METRIC 32 190	19
F1ERNM-32200	ER NC COLLETS - METRIC 32 200	20

ACCESSORIES

Collets – ER40

Part No.	Product name	(D) RANGE
F1ERNM-40040	NC COLLETS - METRIC ER40 040	4
F1ERNM-40050	NC COLLETS - METRIC ER40 050	5
F1ERNM-40060	NC COLLETS - METRIC ER40 060	6
F1ERNM-40070	NC COLLETS - METRIC ER40 070	7
F1ERNM-40080	NC COLLETS - METRIC ER40 080	8
F1ERNM-40090	NC COLLETS - METRIC ER40 090	9
F1ERNM-40100	NC COLLETS - METRIC ER40 100	10
F1ERNM-40110	NC COLLETS - METRIC ER40 110	11
F1ERNM-40120	NC COLLETS - METRIC ER40 120	12
F1ERNM-40130	NC COLLETS - METRIC ER40 130	13
F1ERNM-40140	NC COLLETS - METRIC ER40 140	14
F1ERNM-40150	NC COLLETS - METRIC ER40 150	15
F1ERNM-40160	NC COLLETS - METRIC ER40 160	16
F1ERNM-40170	NC COLLETS - METRIC ER40 170	17
F1ERNM-40180	NC COLLETS - METRIC ER40 180	18
F1ERNM-40190	NC COLLETS - METRIC ER40 190	19
F1ERNM-40200	NC COLLETS - METRIC ER40 200	20
F1ERNM-40210	NC COLLETS - METRIC ER40 210	21
F1ERNM-40220	NC COLLETS - METRIC ER40 220	22
F1ERNM-40230	NC COLLETS - METRIC ER40 230	23
F1ERNM-40240	NC COLLETS - METRIC ER40 240	24
F1ERNM-40250	NC COLLETS - METRIC ER40 250	25
F1ERNM-40260	NC COLLETS - METRIC ER40 260	26

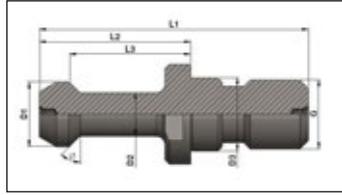
Collets – ER50

Part No.	Product name	(D) RANGE
F1ERNM-50120	NC COLLETS - METRIC ER50 120	12
F1ERNM-50140	NC COLLETS - METRIC ER50 140	14
F1ERNM-50160	NC COLLETS - METRIC ER50 160	16
F1ERNM-50180	NC COLLETS - METRIC ER50 180	18
F1ERNM-50200	NC COLLETS - METRIC ER50 200	20
F1ERNM-50220	NC COLLETS - METRIC ER50 220	22
F1ERNM-50240	NC COLLETS - METRIC ER50 240	24
F1ERNM-50260	NC COLLETS - METRIC ER50 260	26
F1ERNM-50280	NC COLLETS - METRIC ER50 280	28
F1ERNM-50300	NC COLLETS - METRIC ER50 300	30
F1ERNM-50320	NC COLLETS - METRIC ER50 320	32
F1ERNM-50340	NC COLLETS - METRIC ER50 340	34

IMPORT
BENDEZU
INDUSTRIALES BENDEZU E.I.R.L.

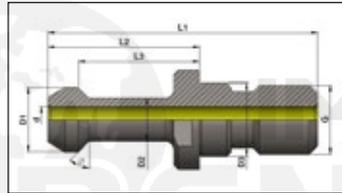
ACCESSORIES

MAS 403 BT



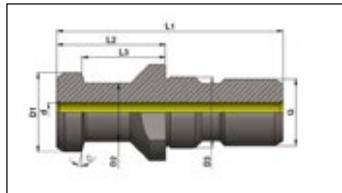
Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	Kgs	Group
F1PBM1-30301	BT PULL STUDS 30 30°	30	11	7	43	M12	23	30	12.5	18	0.03	A
F1PBM1-30451	BT PULL STUDS 30 45°	30	11	7	43	M12	23	45	12.5	18	0.03	A
F1PBM1-40002	BT PULL STUDS 40 0° S	40	15	10	50	M16	25	0	17	18	0.06	A
F1PBM1-40301	BT PULL STUDS 40 30°	40	15	10	60	M16	35	30	17	28	0.07	A
F1PBM1-40451	BT PULL STUDS 40 45°	40	15	10	60	M16	35	45	17	28	0.07	A
F1PBM1-40901	BT PULL STUDS 40 0°	40	15	10	60	M16	35	0	17	28	0.07	A
F1PBM1-50301	BT PULL STUDS 50 30°	50	23	17	85	M24	45	30	25	35	0.24	A
F1PBM1-50451	BT PULL STUDS 50 45°	50	23	17	85	M24	45	45	25	35	0.24	A
F1PBM1-50901	BT PULL STUDS 50 0°	50	23	17	85	M24	45	0	25	35	0.24	A
F1PBM1-50907	BT PULL STUDS 50 0° S	50	24	18	71	M24	31	0	25	21	0.22	A

MAS 403 BT with TC hole



Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	d.	L3	Kgs	Group
F1PBM2-40301	BT PULL STUDS THRU CLNT 40 30°	40	15	10	60	M16	35	30	17	5	28	0.07	A
F1PBM2-40451	BT PULL STUDS THRU CLNT 40 45°	40	15	10	60	M16	35	45	17	4	28	0.07	A
F1PBM2-40901	BT PULL STUDS THRU CLNT 40 0°	40	15	10	60	M16	35	0	17	5	28	0.07	A
F1PBM2-50301	BT PULL STUDS THRU CLNT 50 30°	50	23	17	85	M24	45	30	25	9.5	35	0.24	A
F1PBM2-50451	BT PULL STUDS THRU CLNT 50 45°	50	23	17	85	M24	45	45	25	9.5	35	0.24	A
F1PBM2-50901	BT PULL STUDS THRU CLNT 50 0°	50	23	17	85	M24	45	0	25	9.5	35	0.24	A
F1PBM2-30301	BT PULL STUDS THRU CLNT 30 30°	30	11	7	43	M12	23	30	12.5	2	18	0.03	A
F1PBM2-30451	BT PULL STUDS THRU CLNT 30 45°	30	11	7	43	M12	23	45	12.5	2	18	0.03	A

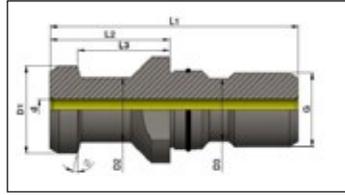
DIN 69872 A -WITH TC



Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	d.	Kgs	Group
F1PSM2-40151	DIN PULL STUDS THRU CLNT 40 15°	40	19	14	54	M16	26	15	17	20	7	0.07	A
F1PSM2-50151	DIN PULL STUDS THRU CLNT 50 15°	50	28	21	74	M24	34	15	25	25	11.5	0.21	A

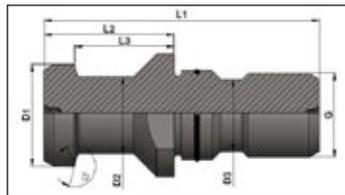
ACCESSORIES

DIN 69872 A -WITH TC O RING



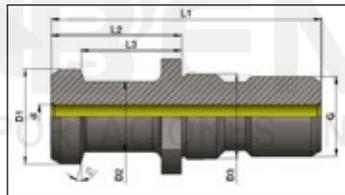
Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	d.	Kgs	Group
F1PSM7-40151	DIN PULL STUDS THRU CLNT WITH O Ring 40 15°	40	19	14	54	M16	26	15	17	20	7	0.07	A
F1PSM7-50151	DIN PULL STUDS THRU CLNT WITH O Ring 50 15°	50	28	21	74	M24	34	15	25	25	11.5	0.21	A

DIN 69872 B -WITH O RING WITHOUT TC



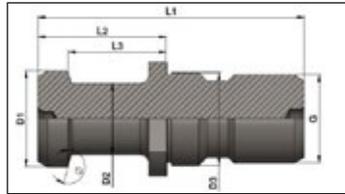
Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	Kgs	Group
F1PSM6-30151	DIN PULL STUDS WITH O Ring 30 15°	30	13	9	44	M12	24	15	13	19	0.04	A
F1PSM6-40151	DIN PULL STUDS WITH O Ring 40 15°	40	19	14	54	M16	26	15	17	20	0.07	A
F1PSM6-50151	DIN PULL STUDS WITH O Ring 50 15°	50	28	21	74	M24	34	15	25	25	0.21	A

JIS 6339 SIMILAR TO DIN 69872-A TC



Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	d.	L3	Kgs	Group
F1PJM2-40151	JIS PULL STUDS THRU CLNT 40 15°	40	19	14	54	M16	29	15	17	7	23	0.07	A
F1PJM2-50151	JIS PULL STUDS THRU CLNT 50 15°	50	28	21	74	M24	34	15	25	11.5	25	0.19	A

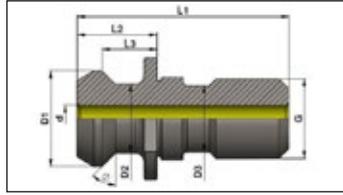
JIS 6339 SIMILAR TO DIN 69872-A



Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	Kgs	Group
F1PJM1-40151	JIS PULL STUDS 40 15°	40	19	14	54	M16	29	15	17	23	0.07	A
F1PJM1-50151	JIS PULL STUDS 50 15°	50	28	21	74	M24	34	15	25	25	0.19	A

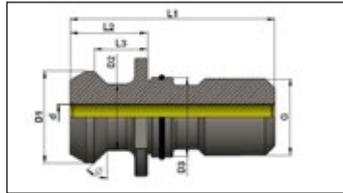
ACCESSORIES

ISO 7388 -WITH TC HOLE



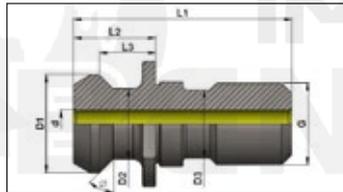
Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	d.	Kgs	Group
F1P7M2-40451	ISO 7388 PULL STUD THRU CLNT 40 45°	40	18.95	12.95	44.5	M16	16.4	45	17	11.15	7.35	0.06	A
F1P7M2-50451	ISO 7388 PULL STUD THRU CLNT 50 45°	50	29.1	19.6	65.5	M24	25.55	45	25	17.95	11.55	0.19	A

ISO 7388 WITH TC O RING



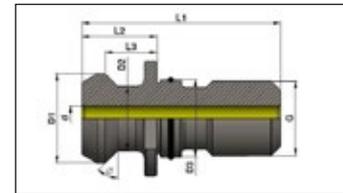
Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	d.	Kgs	Group
F1P7M7-40451	ISO 7388 PULL STUD THRU CLNT O RING 40 45°	40	18.95	12.95	44.5	M16	16.4	45	17	11.15	7.35	0.06	A
F1P7M7-50451	ISO 7388 PULL STUD THRU CLNT O RING 50 45°	50	29.1	19.6	65.5	M24	25.55	45	25	17.95	11.55	0.19	A

MAZAK WITH TC



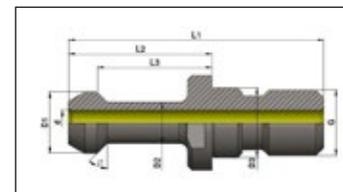
Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	d.	Kgs	Group
F1PMM2-40451	MAZAK PULL STUD THRU CLNT 40 45°	40	18.79	12.44	44.1	M16	19.1	45	17	14.026	7	0.05	A
F1PMM2-50451	MAZAK PULL STUD THRU CLNT 50 45°	50	28.95	20.82	65.2	M24	25.2	45	25	17.58	10	0.2	A

MAZAK WITH TC HOLE AND O RING



Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	L3	d.	Kgs	Group
F1PMM7-40451	MAZAK PULL STUD THRU CLNT WITH O RING 40 45°	40	18.79	12.44	44.1	M16	19.1	45	17	14.026	7	0.05	A
F1PMM7-50451	MAZAK PULL STUD THRU CLNT WITH O RING 50 45°	50	28.95	20.82	65.2	M24	25.2	45	25	17.58	10	0.2	A

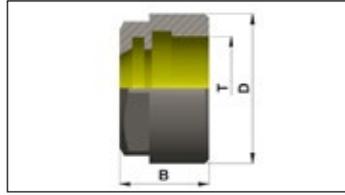
MAS 403 BT with TC hole (Brother M\C)



Part No.	Product name	Taper	D1	D2	L1	G	L2	Angle	D3	d.	L3	Kgs	Group
F1PBM1-30302	BT PULL STUDS 30 30° SPL48(Brother M/c)	30	11	7.5	43	M12	23	30	12.5	2	18	0.03	A

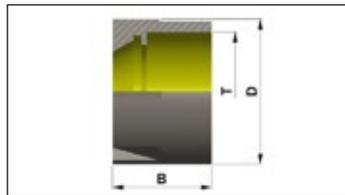
ACCESSORIES

Hexagonal Nut



Part No.	Product name	D	B	T	Spanner	Kgs	Group
F15500-11ERX	NUT 11 ERH	19	11.3	M14X0.75	F155SP-11ERH	0.01	B
F15500-16ERX	NUT 16 ERH	28	17.5	M22X1.50	F155SP-16ERH	0.03	B

Mini Nut



Part No.	Product name	D	B	T	Spanner	Kgs	Group
F15500-16ERM	NUT 16 ERM	22	17.5	M19X1.00	F155SP-16ERM	0.02	B
F15500-20ERM	NUT 20 ERM	28	19.0	M24X1.00	F155SP-25ERM	0.03	B
F15500-25ERM	NUT 25 ERM	35	20.0	M30X1.00	F155SP-25ERM	0.05	B
F15500-11ERM	NUT 11 ERM	16	11.3	M13X0.75	F155SP-11ERM	0.01	B

Slotted Nut



Part No.	Product name	D	B	T	Spanner	Kgs	Group
F15500-20ERS	NUT 20 ERS	35	19.0	M25X1.50	F155SP-20ERS	0.07	B
F15500-25ERS	NUT 25 ERS	42	20.0	M32X1.50	F155SP-25ERS	0.09	B
F15500-32ERS	NUT 32 ERS	50	22.5	M40X1.50	F155SP-32ERS	0.14	B
F15500-40ERS	NUT 40 ERS	63	25.5	M50X1.50	F155SP-40ERS	0.26	B
F15500-50ERS	NUT 50 ERS	78	35.0	M64X2.00	F155SP-50ERS	0.49	B

ACCESSORIES

55SP Spanner

Spanner For Hexagonal Nut



Part No.	Product name	Size	Kgs	Group
F155SP-11ERH	SPANNER ER 11 HEX	ER11	0.12	B
F15SP-16ERH	SPANNER ER 16 HEX	ER11	0.17	B

Spanner For Mini Nut



Part No.	Product name	Size	Kgs	Group
F155SP-20ERM	SPANNER ER20 MINI	ER20	0.18	B
F155SP-11ERM	SPANNER ER11 MINI	ER11	0.11	B
F155SP-16ERM	SPANNER ER16 MINI	ER16	0.13	B
F155SP-25ERM	SPANNER ER25 MINI	ER25	0.20	B

Spanner For Slotted Nut



Part No.	Product name	Size	Kgs	Group
F155SP-20ERS	SPANNER ER20	ER20	0.17	B
F155SP-25ERS	SPANNER ER25	ER25	0.23	B
F155SP-32ERS	SPANNER ER32	ER32	0.27	B
F155SP-40ERS	SPANNER ER40	ER40	0.31	B
F155SP-50ERS	SPANNER ER50	ER50	0.33	B

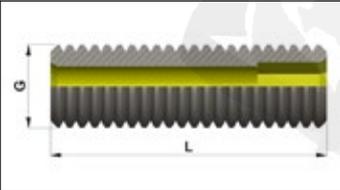
ACCESSORIES

Shrink Fit Extensions



Part No.	Product name	D1	L	D2	G	d.	Size	Kgs	Group
F1CY16X-SFC06150	CYS16 SHRINKFIT 06 150	16	150	10	M5	6	6	0.18	A
F1CY16X-SFC08150	CYS16 SHRINKFIT 08 150	16	150	14	M6	8	8	0.16	A
F1CY16X-SFC10150	CYS16 SHRINKFIT 10 150	16	150	14	M8X1P	10	10	0.14	A
F1CY20X-SFC06200	CYS20 SHRINKFIT 06 200	20	200	14	M5	6	6	0.41	A
F1CY20X-SFC08200	CYS20 SHRINKFIT 08 200	20	200	14	M6	8	8	0.38	A
F1CY20X-SFC10200	CYS20 SHRINKFIT 10 200	20	200	15	M8X1P	10	10	0.37	A
F1CY20X-SFC12200	CYS20 SHRINKFIT 12 200	20	200	16	M10X1P	12	12	0.35	A
F1CY25X-SFC06200	CYS25 SHRINKFIT 06 200	25	200	14	M5	6	6	0.5	A
F1CY25X-SFC08200	CYS25 SHRINKFIT 08 200	25	200	19	M6	8	8	0.64	A
F1CY25X-SFC10200	CYS25 SHRINKFIT 10 200	25	200	20	M8X1P	10	10	0.63	A
F1CY25X-SFC12200	CYS25 SHRINKFIT 12 200	25	200	20	M10X1P	12	12	0.62	A
F1CY25X-SFC14200	CYS25 SHRINKFIT 14 200	25	200	20	M10X1P	14	14	0.6	A
F1CY25X-SFC16200	CYS25 SHRINKFIT 16 200	25	200	22	M12X1P	16	16	0.59	A

Spares



Part No.	L	G
F1SCWM-20M06	20	M6
F1SCWM-20M08	20	M8
F1SCWM-20M10	20	M10
F1SCWM-20M12	20	M12



ACCESSORIES

CYS
Cylindrical shank extensions-ERS

Cylindrical shank -ER Mini



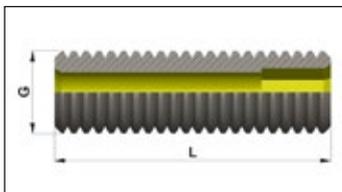
Part No.	Product name	D1	L	L1	G	d.	Size	Nut	Clamping range	Kgs	Group
F1CY12X-ERM11055	CYS12 ER MINI 11 055	16	55	30	-	12	ER11 M	F15500-11ERM	0.5 - 7.0	0.1	A
F1CY12X-ERM11100	CYS12 ER MINI 11 100	16	100	30	-	12	ER11 M	F15500-11ERM	0.5 - 7.0	0.90	A
F1CY16X-ERM11100	CYS16 ER MINI 11 100	16	100	22	M6	16	ER11 M	F15500-11ERM	0.5 - 7.0	0.15	A
F1CY16X-ERM16100	CYS16 ER MINI 16 100	22	100	40	M6	16	ER16 M	F15500-16ERM	0.5 - 10.0	0.2	A
F1CY16X-ERM16150	CYS16 ER MINI 16 150	22	150	40	M6	16	ER16 M	F15500-16ERM	0.5 - 10.0	0.26	A
F1CY16X-ERM16200	CYS16 ER MINI 16 200	22	200	40	M6	16	ER16 M	F15500-16ERM	0.5 - 10.0	0.34	A
F1CY20X-ERM20100	CYS20 ER MINI 20 100	28	100	42	M12	20	ER20 M	F15500-20ERM	1.0 - 13.0	0.4	A
F1CY20X-ERM20150	CYS20 ER MINI 20 150	28	150	42	M12	20	ER20 M	F15500-20ERM	1.0 - 13.0	0.44	A
F1CY20X-ERM20200	CYS20 ER MINI 20 200	28	200	42	M12	20	ER20 M	F15500-20ERM	1.0 - 13.0	0.53	A
F1CY25X-ERM25100	CYS25 ER MINI 25 100	35	100	32	M12	25	ER25 M	F15500-25ERM	1.0 - 16.0	0.5	A
F1CY25X-ERM25150	CYS25 ER MINI 25 150	35	150	32	M12	25	ER25 M	F15500-25ERM	1.0 - 16.0	0.65	A
F1CY25X-ERM25200	CYS25 ER MINI 25 200	35	200	32	M12	25	ER25 M	F15500-25ERM	1.0 - 16.0	0.81	A

Cylindrical shank -ER



Part No.	Product name	D1	L	L1	G	d.	Size	Nut	Clamping range	Kgs	Group
F1CY12X-ERS11100	CYS12 ER 11 100	19	100	30	-	12	ER11	F15500-11ERH	0.5 - 7.0	0.1	A
F1CY12X-ERS11150	CYS12 ER 11 150	19	150	30	-	12	ER11	F15500-11ERH	0.5 - 7.0	0.16	A
F1CY16X-ERS11150	CYS16 ER 11 150	19	150	30	-	16	ER11	F15500-11ERH	0.5 - 7.0	0.2	A
F1CY16X-ERS16060	CYS16 ER 16 060	28	60	45	M8	16	ER16	F15500-16ERH	0.5 - 10.0	0.2	A
F1CY16X-ERS16100	CYS16 ER 16 100	28	100	45	M8	16	ER16	F15500-16ERH	0.5 - 10.0	0.2	A
F1CY16X-ERS16150	CYS16 ER 16 150	28	150	45	M8	16	ER16	F15500-16ERH	0.5 - 10.0	0.3	A
F1CY20X-ERS20060	CYS20 ER 20 060	35	60	52	M8	20	ER20	F15500-20ERS	1.0 - 13.0	0.3	A
F1CY20X-ERS20100	CYS20 ER 20 100	35	100	52	M8	20	ER20	F15500-20ERS	1.0 - 13.0	0.3	A
F1CY20X-ERS20150	CYS20 ER 20 150	35	150	52	M8	20	ER20	F15500-20ERS	1.0 - 13.0	0.4	A
F1CY25X-ERS25060	CYS25 ER 25 060	42	60	55	M12	25	ER25	F15500-25ERS	1.0 - 16.0	0.5	A
F1CY25X-ERS25100	CYS25 ER 25 100	42	100	55	M12	25	ER25	F15500-25ERS	1.0 - 16.0	0.6	A
F1CY25X-ERS25200	CYS25 ER 25 200	42	200	55	M12	25	ER25	F15500-25ERS	1.0 - 16.0	0.81	A

Spares



Part No.	L	G
F1SCWM-20M06	20	M6
F1SCWM-20M08	20	M8
F1SCWM-20M10	20	M10
F1SCWM-20M12	20	M12

ACCESSORIES

Accessories



CYS
Cylindrical shank extensions - ERS



ACCESSORIES

MTA Type Collet Chucks

Morse Taper Collect Chuck – TANG



Part No.	Product name	D	L	Size	Nut	Clamping range	MT No.	Kgs	Group
F1MTA3X-ERS32070	MTA3 Tang type ER 32 070	50	70	ER32	F15500-32ERS	2.0 – 20.0	MT 3	0.8	A
F1MTA3X-ERS40075	MTA3 Tang type ER 40 075	63	75	ER40	F15500-40ERS	3.0 – 26.0	MT 3	1	A
F1MTA4X-ERS32075	MTA4 Tang type ER 32 075	50	75	ER32	F15500-32ERS	2.0 – 20.0	MT 4	1.1	A
F1MTA4X-ERS40075	MTA4 Tang type ER 40 075	63	75	ER40	F15500-40ERS	3.0 – 26.0	MT 4	1.3	A

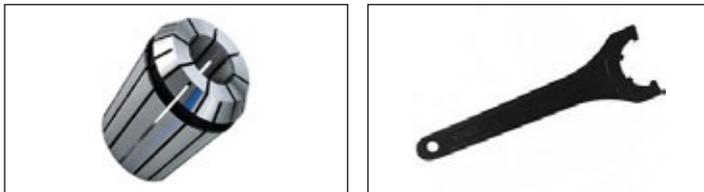
MTB Type Collet Chucks

Morse Taper Collect Chuck – THREADED



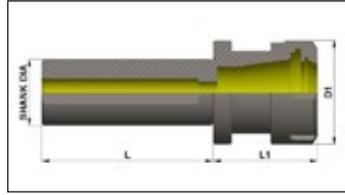
Part No.	Product name	D	L	G	Size	Nut	Clamping range	MT No.	Kgs	Group
F1MTB3X-ERS32070	MTB3 Threaded Type ER 32 070	50	70	M12	ER32	F15500-32ERS	2.0 – 20.0	MT 3	0.7	A
F1MTB3X-ERS40075	MTB3 Threaded Type ER 40 075	63	75	M12	ER40	F15500-40ERS	3.0 – 26.0	MT 3	0.9	A
F1MTB4X-ERS32075	MTB4 Threaded Type ER 32 075	50	75	M16	ER32	F15500-32ERS	2.0 – 20.0	MT 4	1	A
F1MTB4X-ERS40075	MTB4 Threaded Type ER 40 075	63	75	M16	ER40	F15500-40ERS	3.0 – 26.0	MT 4	1.3	A

Accessories



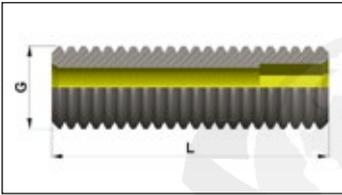
ACCESSORIES

CL - Collet Chucks - ER



Part No.	Product name	D1	L	L1	G	Size	Nut	Clamping range	Kgs	Group
F1CL32X-ERS25050	CL32 ER 25 050	42	82	50	M14X1.5	ER25	F15500-25ERS	1.0 – 16.0	0.7	A
F1CL32X-ERS32055	CL32 ER 32 055	50	82	55	M14X1.5	ER32	F15500-32ERS	2.0 – 20.0	0.8	A
F1CL32X-ERS40070	CL32 ER 40 070	63	82	70	M14X1.5	ER40	F15500-40ERS	3.0 – 26	1.2	A
F1CL40X-ERS25050	CL40 ER 25 050	42	85	50	M16X1.5	ER25	F15500-25ERS	1.0 – 16.0	1	A
F1CL40X-ERS32055	CL40 ER 32 055	50	85	55	M16X1.5	ER32	F15500-32ERS	2.0 – 20.0	1.1	A
F1CL40X-ERS40065	CL40 ER 40 065	63	85	65	M16X1.5	ER40	F15500-40ERS	3.0 – 26.0	1.3	A
F1CL50X-ERS25050	CL50 ER 25 050	42	90	50	M18X1.5	ER25	F15500-25ERS	1.0 – 16.0	1.6	A
F1CL50X-ERS32055	CL50 ER 32 055	50	90	55	M22X1.5	ER32	F15500-32ERS	2.0 – 20.0	1.7	A
F1CL50X-ERS40060	CL50 ER 40 060	63	90	60	M22X1.5	ER40	F15500-40ERS	3.0 – 26.0	1.9	A

Spares



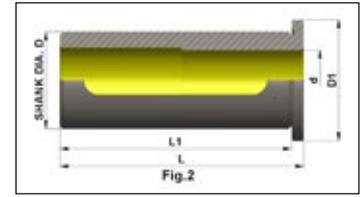
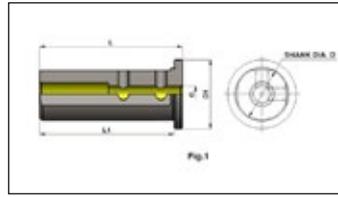
Part No.	L	G
F1SCWM-20M14	20	M14
F1SCWM-20M22	20	M22
F1SCWM-20M16	20	M16

Accessories



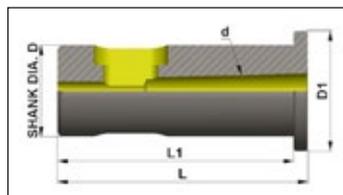
ACCESSORIES

Boring Bar Sleeve



Part No.	Product name	D1	L	L1	d.	D	FIG	Kgs	Group
F16100-25D08	Boring bar sleeve 25 D 08	35	70	65	8	25	1	0.2	A
F16100-25D10	Boring Bar Sleeve 25 D10	35	70	65	10	25	1	0.2	A
F16100-25D12	Boring Bar Sleeve 25 D12	35	70	65	12	25	1	0.2	A
F16100-25D16	Boring Bar Sleeve 25 D16	35	70	65	16	25	2	0.1	A
F16100-25D20	Boring Bar Sleeve 25 D20	35	70	65	20	25	2	0.1	A
F16100-32D08	Boring Bar Sleeve 32 D08	42	87	82	8	32	1	0.4	A
F16100-32D10	Boring Bar Sleeve 32 D10	42	87	82	10	32	1	0.5	A
F16100-32D12	Boring Bar Sleeve 32 D12	42	87	82	12	32	1	0.5	A
F16100-32D16	Boring Bar Sleeve 32 D16	42	87	82	16	32	2	0.4	A
F16100-32D20	Boring Bar Sleeve 32 D20	42	87	82	20	32	2	0.3	A
F16100-32D25	Boring Bar Sleeve 32 D25	42	87	82	25	32	2	0.2	A
F16100-40D08	Boring Bar Sleeve 40 D08	50	90	85	8	40	1	0.8	A
F16100-40D10	Boring Bar Sleeve 40 D10	50	90	85	10	40	1	0.8	A
F16100-40D12	Boring Bar Sleeve 40 D12	50	90	85	12	40	1	0.8	A
F16100-40D16	Boring Bar Sleeve 40 D16	50	90	85	16	40	2	0.6	A
F16100-40D20	Boring Bar Sleeve 40 D20	50	90	85	20	40	2	0.6	A
F16100-40D25	Boring Bar Sleeve 40 D25	50	90	85	25	40	2	0.4	A
F16100-40D32	Boring Bar Sleeve 40 D32	50	90	85	32	40	2	0.3	A
F16100-50D08	Boring Bar Sleeve 50 D08	60	95	90	8	50	1	1.4	A
F16100-50D10	Boring Bar Sleeve 50 D10	60	95	90	10	50	1	1.4	A
F16100-50D12	Boring Bar Sleeve 50 D12	60	95	90	12	50	1	1.3	A
F16100-50D16	Boring Bar Sleeve 50 D16	60	95	90	16	50	2	1.2	A
F16100-50D20	Boring Bar Sleeve 50 D20	60	95	90	20	50	2	1.1	A
F16100-50D25	Boring Bar Sleeve 50 D25	60	95	90	25	50	2	1	A
F16100-50D32	Boring Bar Sleeve 50 D32	60	95	90	32	50	2	0.8	A
F16100-50D40	Boring Bar Sleeve 50 D40	60	95	90	40	50	2	0.5	A

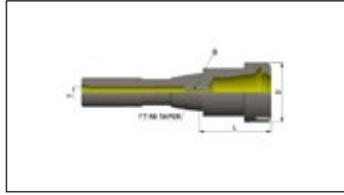
Boring Bar Sleeve MT



Part No.	Product name	d.	D	D1	L1	L	Kgs	Group
F16100-25MT1	Boring Bar Sleeve 25 MT1	MT1	25	35	65	76	0.20	A
F16100-32MT1	Boring Bar Sleeve 32 MT1	MT1	32	42	82	87	0.50	A
F16100-32MT2	Boring Bar Sleeve 32 MT2	MT2	32	42	82	89	0.40	A
F16100-32MT3	Boring Bar Sleeve 32 MT3	MT3	32	42	82	110	0.40	A
F16100-40MT1	Boring Bar Sleeve 40 MT1	MT1	40	50	85	90	0.80	A
F16100-40MT2	Boring Bar Sleeve 40 MT2	MT2	40	50	85	90	0.70	A
F16100-40MT3	Boring Bar Sleeve 40 MT3	MT3	40	50	85	110	0.80	A
F16100-50MT1	Boring Bar Sleeve 50 MT1	MT1	50	60	90	95	1.30	A
F16100-50MT2	Boring Bar Sleeve 50 MT2	MT2	50	60	90	95	1.30	A
F16100-50MT3	Boring Bar Sleeve 50 MT3	MT3	50	60	90	110	1.40	A
F16100-25MT2	Boring Bar Sleeve 25 MT2	MT2	25	35	65	89	0.20	A

ACCESSORIES

R8 Collet Chucks



Part No.	Product name	D	L	G	Size	Clamping range	Nut	T	Kgs	Group
F12211X-ERS32060	R8(M12) ER 32 060	50	60	M12	ER32	2.0 - 20.0	F15500-32ERS	M12	0.7	B
F12211X-ERS40070	R8(M12) ER 40 070	63	70	M12	ER40	3.0 - 26.0	F15500-40ERS	M12	1.1	B

Accessories

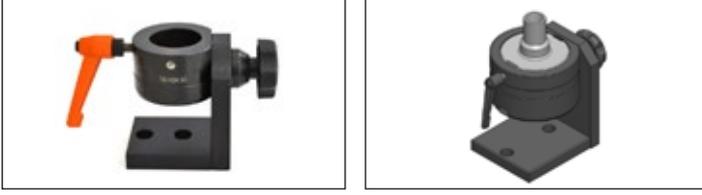


2211 R8 Collet Chucks



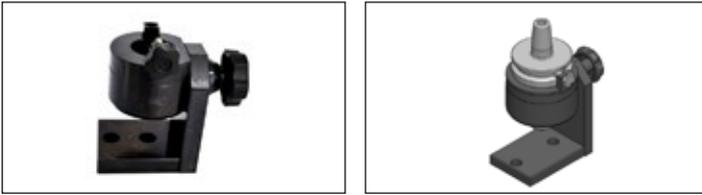
ACCESSORIES

Tool Clamping Device HSK



Part No.	Product name	Size	Kgs	Group
F155TB-10HSK	TOOL BOY HSK 100	HSK100	9.5	D
F155TB-50HSK	TOOL BOY HSK 50	HSK50	4	D
F155TB-63HSK	TOOL BOY HSK 63	HSK63	5	D

Tool Clamping Device ISO

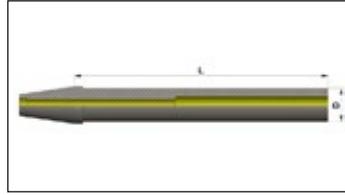


Part No.	Product name	Size	Kgs	Group
F155TB-30ISO	TOOL BOY ISO 30	ISO30	3.5	B
F155TB-40ISO	TOOL BOY ISO 40	ISO40	5	B
F155TB-50ISO	TOOL BOY ISO 50	ISO50	8	B



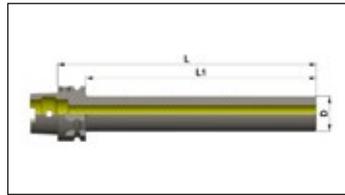
ACCESSORIES

Test Bars – ISO Taper

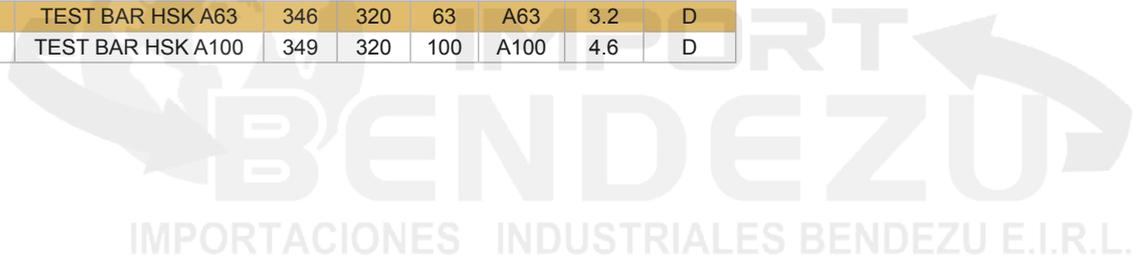


Part No.	Product name	L	Size	D	Kgs	Group
F166TS-30ISO	TEST BAR 30 ISO	300	ISO30	30	0.9	D
F166TS-40ISO	TEST BAR 40 ISO	300	ISO40	40	1.9	D
F166TS-50ISO	TEST BAR 50 ISO	300	ISO50	50	5.6	D

Test Bars - HSK Taper

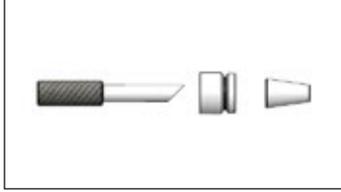


Part No.	Product name	L	L1	D	Size	Kgs	Group
F166TS-50HSK	TEST BAR HSK A50	236	210	50	A50	1.4	D
F166TS-63HSK	TEST BAR HSK A63	346	320	63	A63	3.2	D
F166TS-10HSK	TEST BAR HSK A100	349	320	100	A100	4.6	D



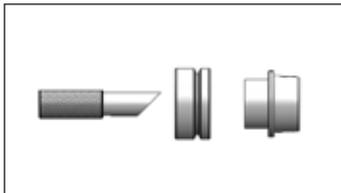
ACCESSORIES

ATC "0" Setting - ISO

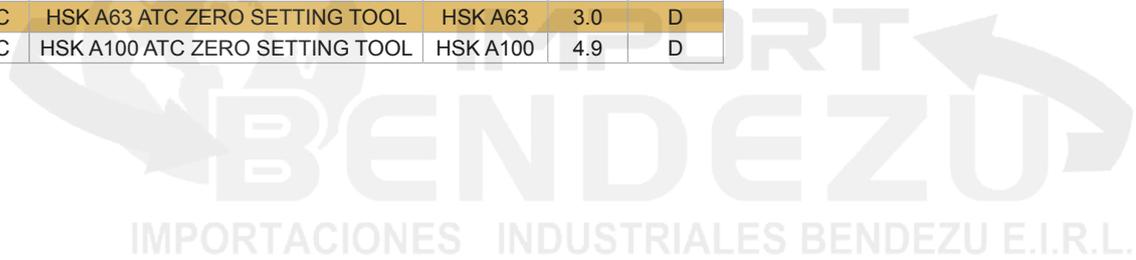


Part No.	Product name	Size	Kgs	Group
F1B401-66ATC	BT 40 AD ZERO SETTING TOOL	BT40	2.6	D
F1B501-66ATC	BT 50 AD ZERO SETTING TOOL	BT50	4.5	D
F1S401-66ATC	SK 40 AD ZERO SETTING TOOL	SK40	2.6	D

ATC "0" Setting - HSK



Part No.	Product name	Size	Kgs	Group
F1A050-66ATC	HSK A50 ATC ZERO SETTING TOOL	HSK A50	2.0	D
F1A063-66ATC	HSK A63 ATC ZERO SETTING TOOL	HSK A63	3.0	D
F1A100-66ATC	HSK A100 ATC ZERO SETTING TOOL	HSK A100	4.9	D



990972 ATC "0" Setting Mandrel

ACCESSORIES

Drill Chucks



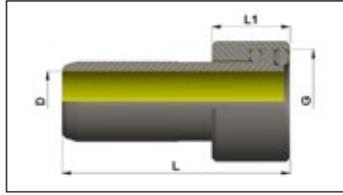
Part No.	Product name	Size	Kgs	Group
F1KDCH-06JTA	DRILL CHUCK 06 JTA	JTA6	0.074	D
F1KDCH-16DCB	DRILL CHUCK B 16	B16	0.074	D

KDCH Drill Chucks



ACCESSORIES

HSK -A



Part No.	Product name	L	L1	G	D	Group
F1CTUB-50HSK	Coolant tube HSK A50	33	9.5	M16X1	Ø10	A
F1CTUB-63HSK	Coolant tube HSK A63	36.5	11.5	M18X1	Ø12	A
F1CTUB-10HSK	Coolant tube HSK A100	44	15.5	M24X1.5	Ø16	A



ACCESSORIES

HSK -A



Part No.	Product name	Size	Kgs	Group
F1SPCT-50HSK	COOLANT TUBE SPANNER HSKA50	HSK A50	0.13	B
F1SPCT-63HSK	COOLANT TUBE SPANNER HSK A63	HSK A63	0.14	B
F1SPCT-10HSK	COOLANT TUBE SPANNER HSK A100	HSK A100	0.26	B

SPCT Spanner For Coolant tube





BORING BARS



BORING BARS

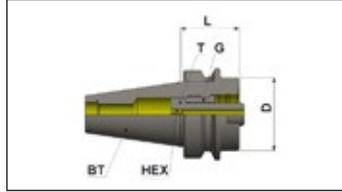
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344 - Adjustable Heavy Duty Finish Boring Bars	
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BORING BARS

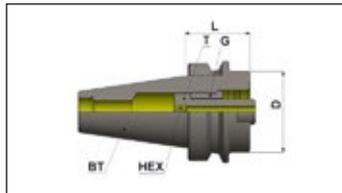
BT Master Holder

BT 30 – Form AD



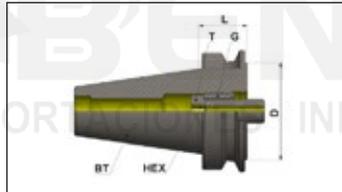
Part No.	Product name	D	L	G	T	Hex	Kgs	Group
F1B301X-MOD50050	BT 30 AD MOD 50 050	50	50	M25X1.5-LH	M16X1.5	10	0.7	A

BT 40 – Form AD



Part No.	Product name	D	L	G	T	Hex	Kgs	Group
F1B401X-MOD50040	BT 40 AD MOD 50 040	50	40	M25X1.5-LH	M16X1.5	10	1.1	A
F1B401X-MOD63050	BT 40 AD MOD 63 050	63	50	M30X1.5-LH	M20X2	10	1.3	A
F1B401X-MOD80050	BT 40 AD MOD 80 050	80	50	M30X1.5-LH	M20X2	10	1.5	A

BT 50 – Form AD

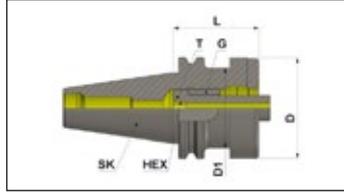


Part No.	Product name	D	L	G	T	Hex	Kgs	Group
F1B501X-MOD50040	BT 50 AD MOD 50 040	50	40	M25X1.5-LH	M16X1.5	10	3.5	A
F1B501X-MOD63040	BT 50 AD MOD 63 040	63	40	M30X1.5-LH	M20X2	10	3.5	A
F1B501X-MOD80040	BT 50 AD MOD 80 040	80	40	M30X1.5-LH	M20X2	10	3.6	A

BORING BARS

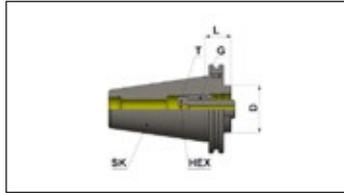
SK Master Holder

SK 40 – Form AD

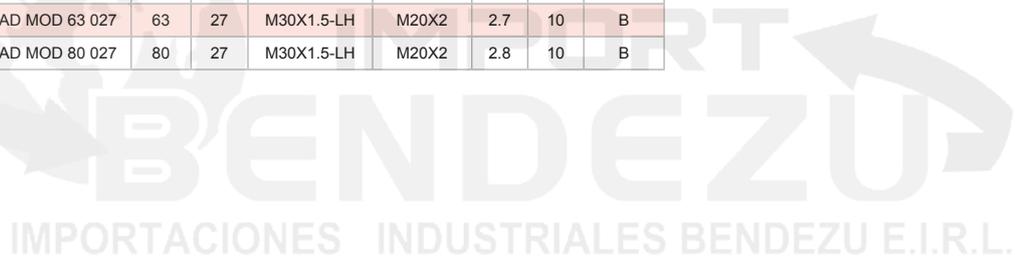


Part No.	Product name	D	L	G	T	Kgs	Hex	Group
F1S401X-MOD50040	SK 40 AD MOD 50 040	50	40	M25X1.5-LH	M16X1.5	1.1	10	B
F1S401X-MOD63050	SK 40 AD MOD 63 050	63	50	M30X1.5-LH	M20X2	1.4	10	B

SK 50 – Form AD



Part No.	Product name	D	L	G	T	Kgs	Hex	Group
F1S501X-MOD50027	SK 50 AD MOD 50 027	50	27	M25X1.5-LH	M16X1.5	2.6	10	B
F1S501X-MOD63027	SK 50 AD MOD 63 027	63	27	M30X1.5-LH	M20X2	2.7	10	B
F1S501X-MOD80027	SK 50 AD MOD 80 027	80	27	M30X1.5-LH	M20X2	2.8	10	B

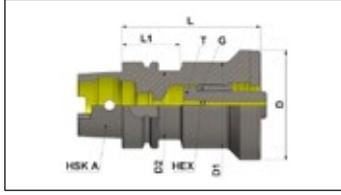


 IMPORTACIONES INDUSTRIALES BENDEZU E.I.R.L.

BORING BARS

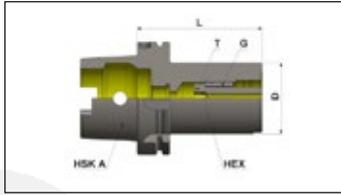
HSK Master Holder

HSK A63



Part No.	Product name	D	D1	D2	L	L1	G	T	Hex	Kgs	Group
F1A063X-MOD50090	HSK A63 MOD50 090	50	63	-	90	-	M25X1.5-LH	M16X1.5	7	1.5	B
F1A063X-MOD63100	HSK A63 MOD63 100	63	63	50	100	42	M30X1.5-LH	M20X2	7	2.1	B
F1A063X-MOD80100	HSK A63 MOD80 100	80	63	50	100	42	M30X1.5-LH	M20X2	7	2.6	B

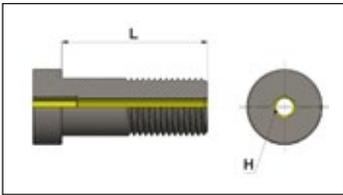
HSK A100



Part No.	Product name	D	L	G	T	Hex	Kgs	Group
F1A100X-MOD50100	HSK A100 MOD50 100	50	100	M25X1.5-LH	M16X1.5	10	2.9	B
F1A100X-MOD63110	HSK A100 MOD63 110	63	110	M30X1.5-LH	M20X2	10	3.7	B
F1A100X-MOD80110	HSK A100 MOD80 110	80	110	M30X1.5-LH	M20X2	10	4.9	B

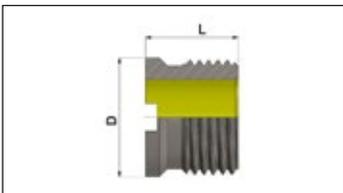
Spares

Vari lock screw



Part No.	Product name	Hex	L
F1VSWM-07M16	VARI LOCK STOPPER SCREW M16 X 1.5 - 7mm	7	40
F1VSWM-10M16	VARI LOCK STOPPER SCREW M16 X 1.5 - 10mm	10	40
F1VSWM-07M20	VARI LOCK STOPPER SCREW M20 X 2 - 7mm	7	50
F1VSWM-10M20	VARI LOCK STOPPER SCREW M20 X 2 - 10mm	10	50

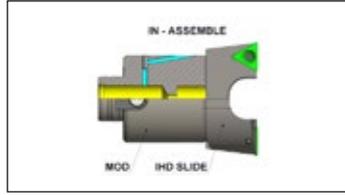
Retaining nut



Part No.	Product name	L
F1SWLM-25M25	LOCKING SCREW L.H. M25 X 1.5	20
F1SWLM-25M30	LOCKING SCREW L.H. M30 X 1.5	25

BORING BARS

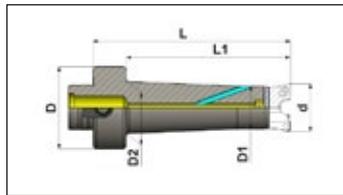
Assembly



Note:

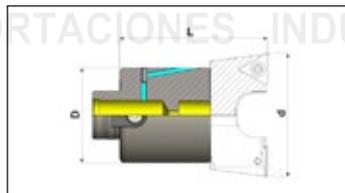
- Insert holder to be order separately
- Select insert holder as per boring range
- Quantity "2 Nos" required per every boring bar
- For, Insert holder refer page No: 9

Modular50 RBB - Range (25 - 70)



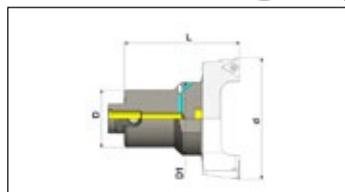
Part No.	Product name	D	D1	D2	L	L1	Boring Range - d	Kgs	Group
F1MD50X-025032090	MOD 50 D 025 - 032 L 090	50	21	24	90	70	25 - 32	0.7	B
F1MD50X-030038110	MOD 50 D 030 - 038 L 110	50	26	32	110	90	30 - 38	0.7	B
F1MD50X-037047110	MOD 50 D 037 - 047 L 110	50	34	-	110	90	37 - 47	0.9	B
F1MD50X-046056110	MOD 50 D 046 - 056 L 110	50	42	-	110	90	46 - 56	1.2	B
F1MD50X-055070085	MOD 50 D 055 - 070 L 085	50	-	-	85	-	55 - 70	1.1	B

Modular63 RBB - Range (69 - 101)



Part No.	Product name	D	L	Boring Range - d	Kgs	Group
F1MD63X-069101090	MOD 63 D 069 - 101 L 090	63	90	69 - 85 83-101	1.9	B

Modular80 RBB - Range (99 - 270)

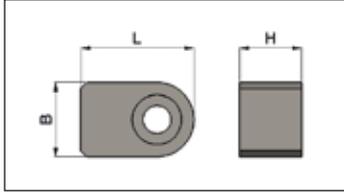


Part No.	Product name	D	D1	L	Boring Range - d	Kgs	Group
F1MD80X-099150125	MOD 80 D 099 - 150 L 125	80	80	125	99 - 126 123 - 150	4.2	B
F1MD80X-148270125	MOD 80 D 148 - 270 L 125	80	110	125	148 - 190 188 - 230 228 - 270	6.6	B

BORING BARS

Spares

Driving Key

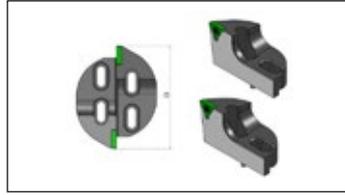


Part No.	Product name	B	H	L	Allen Screw
F1DRKY-12S27	DRIVING KEY 12 27	12	10	18.3	M4
F1DRKY-16S40	DRIVING KEY 16 40	16	16	24	M6
F1DRKY-16M63	DRIVING KEY MOD63 16 40	16	13	24	M6



BORING BARS

Insert Holders



Part No.	Product name	Boring Range - d	Insert Type	Torque for Tightening Slide	Allen Screw for Slide Locking	Insert Screw	Torque for Tightening Insert screw
F1IHDRX-025032C06	INSERT HOLDER DIA 025 - 032 CCMT 06	25 - 32	CCMT 06 02 08	4.8	M4X10	(M2.5)	0.9
F1IHDRX-030038C06	INSERT HOLDER DIA 030 - 038 CCMT 06	30 - 38	CCMT 06 02 08	4.8	M4X10	(M2.5)	0.9
F1IHDRX-037047T11	INSERT HOLDER DIA 037 - 047 TCMT11	37 - 47	TCMT 11 02 08	4.8	M4X20	(M2.5)	0.9
F1IHDRX-046056T16	INSERT HOLDER DIA 046 - 056 TCMT16	46 - 56	TCMT 16 T3 08	9	M5X25	(M3.5)	3
F1IHDRX-055070T16	INSERT HOLDER DIA 055 - 070 TCMT16	55 - 70	TCMT 16 T3 08	16	M6X30	(M3.5)	3
F1IHDRX-069085T16	INSERT HOLDER DIA 069 - 085 TCMT16	69 - 85	TCMT 16 T3 08	16	M6X30	(M3.5)	3
F1IHDRX-083101T16	INSERT HOLDER DIA 083 - 101 TCMT16	83 - 101	TCMT 16 T3 08	16	M6X30	(M3.5)	3
F1IHDRX-083101T22	INSERT HOLDER DIA 083 - 101 TCMT22	83 - 101	TCMT 22 04 08	16	M6X30	(M5.0)	3
F1IHDRX-099126T16	INSERT HOLDER DIA 099 - 126 TCMT16	99 - 126	TCMT 16 T3 08	38	M8X25	(M3.5)	3
F1IHDRX-099126T22	INSERT HOLDER DIA 099 - 126 TCMT22	99 - 126	TCMT 22 04 08	38	M8X25	(M5.0)	3
F1IHDRX-123150T16	INSERT HOLDER DIA 123 - 150 TCMT16	123 - 150	TCMT 16 T3 08	38	M8X25	(M3.5)	3
F1IHDRX-123150T22	INSERT HOLDER DIA 123 - 150 TCMT22	123 - 150	TCMT 22 04 08	38	M8X25	(M5.0)	3
F1IHDRX-148190T16	INSERT HOLDER DIA 148 - 190 TCMT16	148 - 190	TCMT 16 T3 08	75	M10X30	(M3.5)	3
F1IHDRX-148190T22	INSERT HOLDER DIA 148 - 190 TCMT22	148 - 190	TCMT 22 04 08	75	M10X30	(M5.0)	3
F1IHDRX-188230T16	INSERT HOLDER DIA 188 - 230 TCMT16	188 - 230	TCMT 16 T3 08	75	M10X30	(M3.5)	3
F1IHDRX-188230T22	INSERT HOLDER DIA 188 - 230 TCMT22	188 - 230	TCMT 22 04 08	75	M10X30	(M5.0)	3
F1IHDRX-228270T16	INSERT HOLDER DIA 228 - 270 TCMT 16	228 - 270	TCMT 16 T3 08	75	M10X30	(M3.5)	3
F1IHDRX-228270T22	INSERT HOLDER DIA 228 - 270 TCMT 22	228 - 270	TCMT 22 04 08	75	M10X30	(M5.0)	3

IHDR Insert Holder for Twin Edge Rough Boring Bars

BORING BARS

Assembly



Note:

- Slide to be ordered separately
- Slide "2Nos" required per one boring bar
- Cartridge to be ordered separately

Rough Boring Bars



Part No.	Product name	d.	A	L	(D) RANGE	PCD	Slide Part No.	Kgs	Group
F1FM40X-346250300	FLANGE TYPE HD RBB 250 – 300	40	85	50	250 – 300	66.7	F13320X-346250300	4.2	B
F1FM40X-346300350	FLANGE TYPE HD RBB 300 – 350	40	85	50	300 – 350	66.7	F13320X-346300350	4.5	B
F1FM40X-346350400	FLANGE TYPE HD RBB 350 - 400	40	85	50	350 – 400	66.7	F13320X-346350400	4.9	B

Note:

Please use Dia 40 Face Mill Arbors - Flange Type For Mounting

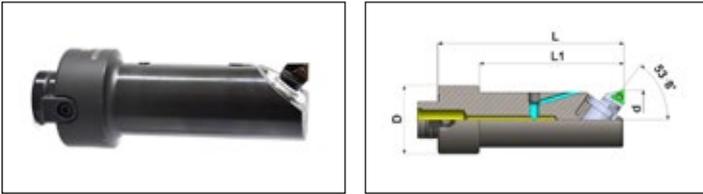
Slide – Rough Boring Bars



Part No.	Product name	L	(D) RANGE	Insert Type	Cartridge	Entering Angle
F13320X-346250300	3320 ROUGH BORING BAR 250 – 300	40	250 – 300	TNMG 22 04 08 / SNMG 15 06 12	PTGNL20CA22 / PSRNL20CA15	90° / 75°
F13320X-346300350	3320 ROUGH BORING BAR 300 – 350	40	300 – 350	TNMG 22 04 08 / SNMG 15 06 12	PTGNL20CA22 / PSRNL20CA15	90° / 75°
F13320X-346350400	3320 ROUGH BORING BAR 350 – 400	40	350 – 400	TNMG 22 04 08 / SNMG 15 06 12	PTGNL20CA22 / PSRNL20CA15	90° / 75°

BORING BARS

Modular50 FBB - Range (25 - 70)



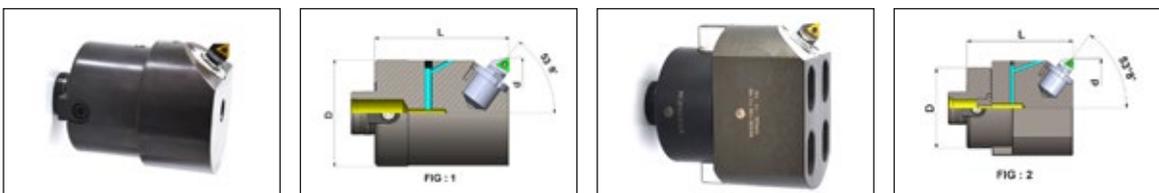
Part No.	Product name	D	L	L1	Boring Range - d	Catrdige as Per Sandvik	Insert Type	Kgs	Group
F1MD50X-FBB025110	MOD50 FINISH BORING BAR 25 110	50	110	80	25 - 28	L 148 C 31 06 T1 / L148 C 31 06 02	TCMT 06 T1/ CCMT 06 02	0.8	B
F1MD50X-FBB028110	MOD50 FINISH BORING BAR 28 110	50	110	80	28 - 31	L 148 C 31 06 T1 / L148 C 31 06 02	TCMT 06 T1/ CCMT 06 02	0.8	B
F1MD50X-FBB031120	MOD50 FINISH BORING BAR 31 120	50	120	90	31 - 34	L 148 C 31 06 T1 / L148 C 31 06 02	TCMT 06 T1/ CCMT 06 02	0.8	B
F1MD50X-FBB034120	MOD50 FINISH BORING BAR 34 120	50	120	90	34 - 39	L 148 C 32 09 02	TCMT 09 02 04	1.0	B
F1MD50X-FBB039120	MOD50 FINISH BORING BAR 39 120	50	120	90	39 - 44	L 148 C 32 09 02	TCMT 09 02 04	1.1	B
F1MD50X-FBB044120	MOD50 FINISH BORING BAR 44 120	50	120	90	44 - 52	L 148 C 33 11 02	TCMT 11 02 04	1.3	B
F1MD50X-FBB052100	MOD50 FINISH BORING BAR 52 100	50	100	-	52 - 60	L 148 C 33 11 02	TCMT 11 02 04	1.3	B
F1MD50X-FBB060100	MOD50 FINISH BORING BAR 60 100	50	100	-	60 - 68	L 148 C 33 11 02	TCMT 11 02 04	1.9	B

Modular63 FBB - Range (69 - 101)



Part No.	Product name	D	L	Boring Range - d	Catrdige as Per Sandvik	Insert Type	Kgs	Group
F1MD63X-FBB068100	MOD63 FINISH BORING BAR 68 100	63	100	68 - 76	L 148 C 33 11 02	TCMT 11 02 04	2.4	B
F1MD63X-FBB076100	MOD63 FINISH BORING BAR 76 100	63	100	76 - 84	L 148 C 33 11 02	TCMT 11 02 04	2.7	B

Modular80 FBB - Range (99 - 270)



Part No.	Product name	D	L	L1	Boring Range - d	Catrdige as Per Sandvik	Insert Type	FIG	Kgs	Group
F1MD80X-FBB084100	MOD80 FINISH BORING BAR 84 100	80	100	-	84 - 92	L 148 C 33 11 02	TCMT 11 02 04	1	3.8	B
F1MD80X-FBB092100	MOD80 FINISH BORING BAR 92 100	80	100	-	92 - 100	L 148 C 33 11 02	TCMT 11 02 04	1	4.0	B
F1MD80X-FBB100100	MOD80 FINISH BORING BAR 100 100	80	100	-	100-115	L 148 C 33 11 02	TCMT 11 02 04	2	2.6	B
F1MD80X-FBB115100	MOD80 FINISH BORING BAR 115 100	80	100	-	115 - 130	L 148 C 33 11 02	TCMT 11 02 04	2	2.9	B
F1MD80X-FBB130100	MOD80 FINISH BORING BAR 130 100	80	100	-	130 - 145	L 148 C 33 11 02	TCMT 11 02 04	2	3.2	B
F1MD80X-FBB145100	MOD80 FINISH BORING BAR 145 100	80	100	-	145 - 160	L 148 C 33 11 02	TCMT 11 02 04	2	3.5	B

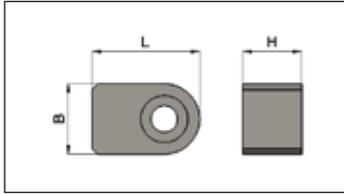
Note:

- Fine boring catrdige (Order seperately)

BORING BARS

Spares

Driving Key



Part No.	Product name	B	H	L	Allen Screw
F1DRKY-12S27	DRIVING KEY 12 27	12	10	18.3	M4
F1DRKY-16S40	DRIVING KEY 16 40	16	16	24	M6
F1DRKY-16M63	DRIVING KEY MOD63 16 40	16	13	24	M6

BORING BARS

Assembly

Type - A



Type - B



Note:

- Slide to be ordered separately
- Cartridge to be ordered separately

Finish Boring Bars



Part No.	Product name	d.	D1	A	L	L2	L3	PCD	Boring Range	OD-Turning Range	Slide Part No.	FIG	InAssembly	Kgs	Group
F1MD80X-344150175	MOD80 HDFBB 150 – 175	-	80	85	-	50	20	-	150-175	40-65	F13320X-344150225	1	Type A	3.5	B
F1MD80X-344175200	MOD80 HDFBB 175 – 200	-	80	85	-	50	20	-	175-200	65-90	F13320X-344150225	1	Type A	4.5	B
F1MD80X-344200225	MOD80 HDFBB 200 – 225	-	80	85	-	50	20	-	200-225	90-115	F13320X-344150225	1	Type A	4.6	B
F1FM40X-344225250	FLANGE TYPE HD FBB 225 – 250	40	-	85	50	-	-	66.7	225-250	75-100	F13320X-344225550	2	Type B	5.4	B
F1FM40X-344250275	FLANGE TYPE HD FBB 250 – 275	40	-	85	50	-	-	66.7	250-275	100-125	F13320X-344225550	2	Type B	5.5	B
F1FM40X-344275300	FLANGE TYPE HD FBB 275 – 300	40	-	85	50	-	-	66.7	275-300	125-150	F13320X-344225550	2	Type B	5.6	B
F1FM40X-344300325	FLANGE TYPE HD FBB 300 – 325	40	-	85	50	-	-	66.7	300-325	150-175	F13320X-344225550	2	Type B	5.9	B
F1FM40X-344325350	FLANGE TYPE HD FBB 325 – 350	40	-	85	50	-	-	66.7	325-350	175-200	F13320X-344225550	2	Type B	6	B

Note:

Please use Dia 40 Face Mill Arbors - Flange Type For Mounting

Slide – Finish Boring Bars



Part No.	Product name	D	L	Boring Range	OD-Turning Range	Cartridge as per Sandvik
F13320X-344150225	CH FINISH BORING BAR 150 225	50	65	150 – 225	40 – 115	L 148 C 33 11 02
F13320X-344225550	CH FINISH BORING BAR 225 550	70	70	225 – 550	75 – 200	L 148 C 33 11 02

BORING BARS

Modular50 BCA - Range (23 - 66)



Part No.	Product name	D	L	L1	Boring Range - d	Micro Bore Unit (Catridge)	Kgs	Group
F1MD50X-BCA023110	MOD50 MICRO BORING BAR 023 110	50	110	90	23-29	M3 B2 CCMT	0.6	B
F1MD50X-BCA029130	MOD50 MICRO BORING BAR 029 130	50	130	110	29-39	M3 A2 CCMT	0.8	B
F1MD50X-BCA038130	MOD50 MICRO BORING BAR 038 130	50	130	110	38-49	M5 B2 TCMT	1.1	B
F1MD50X-BCA046130	MOD50 MICRO BORING BAR 046 130	50	130	110	46-66	M5 A2 TCMT	1.5	B

Modular63 BCA - Range (62 - 87)



Part No.	Product name	D	L	L1	Boring Range - d	Micro Bore Unit (Catridge)	Kgs	Group
F1MD63X-BCA062115	MOD63 MICRO BORING BAR 062 115	63	115	95	62-87	M7 A2 TCMT	2.3	B

Modular80 BCA - Range (83 - 142)



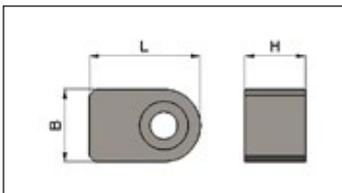
Part No.	Product name	D	L	L1	Boring Range - d	Micro Bore Unit (Catridge)	Kgs	Group
F1MD80X-BCA083110	MOD80 MICRO BORING BAR 083 110	80	110	85	83-108	M7 A2 TCMT	3.1	B
F1MD80X-BCA098115	MOD80 MICRO BORING BAR 098 115	80	115	85	98-142	M10 A2 TCMT	3.3	B

Note:

- Micro bore cartridge to be order seperately
- For, Cartridge please refer page No: 15

Spares

Driving Key



Part No.	Product name	B	H	L	Allen Screw
F1DRKY-12S27	DRIVING KEY 12 27	12	10	18.3	M4
F1DRKY-16S40	DRIVING KEY 16 40	16	16	24	M6
F1DRKY-16M63	DRIVING KEY MOD63 16 40	16	13	24	M6

BORING BARS

Finish Boring Catridges-BCA Type

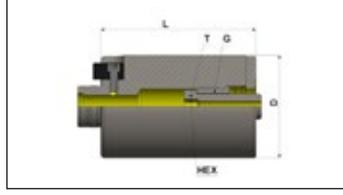


Part No.	Product name	Boring Range - d	Group
F1M03B2CCMT06	Catridge M03 B2 CCMT06	23 - 29	B
F1M03A2CCMT06	Catridge M03 A2 CCMT06	29 - 39	B
F1M05B2TCMT11	Catridge M05 B2 TCMT11	38 - 49	B
F1M05A2TCMT11	Catridge M05 A2 TCMT11	46 - 66	B
F1M07A2TCMT11	Catridge M07 A2 TCMT11	62 - 87 83 - 108	B
F1M07A2TCMT16	Catridge M07 A2 TCMT16	62 - 87 83 - 108	B
F1M10A2TCMT11	Catridge M10 A2 TCMT11	98 - 142	B
F1M10A2TCMT16	Catridge M10 A2 TCMT16	98 - 142	B



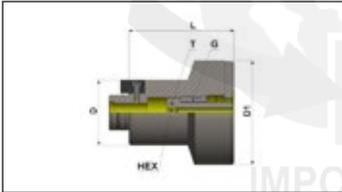
BORING BARS

Extensions



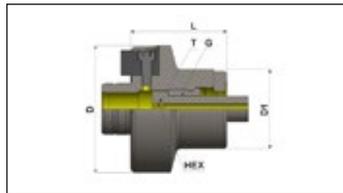
Part No.	Product name	D	L	G	T	Hex	Kgs	Group
F1MD50X-EXT050060	MOD50 BORING BAR EXTENSION 050 060	50	60	M25X1.5-LH	M16X1.5	10	0.8	A
F1MD50X-EXT050080	MOD50 BORING BAR EXTENSION 050 080	50	80	M25X1.5-LH	M16X1.5	10	1.0	A
F1MD50X-EXT050100	MOD50 BORING BAR EXTENSION 050 100	50	100	M25X1.5-LH	M16X1.5	10	1.3	A
F1MD63X-EXT063080	MOD63 BORING BAR EXTENSION 063 080	63	80	M30X1.5-LH	M20X2	10	1.6	A
F1MD63X-EXT063100	MOD63 BORING BAR EXTENSION 063 100	63	100	M30X1.5-LH	M20X2	10	2.1	A
F1MD63X-EXT063120	MOD63 BORING BAR EXTENSION 063 120	63	120	M30X1.5-LH	M20X2	10	2.7	A
F1MD80X-EXT080080	MOD80 BORING BAR EXTENSION 080 080	80	80	M30X1.5-LH	M20X2	10	2.8	A
F1MD80X-EXT080100	MOD80 BORING BAR EXTENSION 080 100	80	100	M30X1.5-LH	M20X2	10	3.4	A
F1MD80X-EXT080120	MOD80 BORING BAR EXTENSION 080 120	80	120	M30X1.5-LH	M20X2	10	4.2	A
F1MD80X-EXT080160	MOD80 BORING BAR EXTENSION 080 160	80	160	M30X1.5-LH	M20X2	10	6.3	A

Expansions



Part No.	Product name	D	D1	L	G	T	Hex	Kgs	Group
F1MD50X-EXP063080	MOD50 BORING BAR EXPANSION 063 080	50	63	80	M30X1.5-LH	M20X2	10	1.3	A
F1MD63X-EXP080080	MOD63 BORING BAR EXPANSION 080 080	63	80	80	M30X1.5-LH	M20X2	10	2	A

Reductions

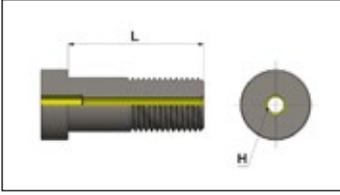


Part No.	Product name	D	D1	L	G	T	Hex	Kgs	Group
F1MD63X-RED050060	MOD63 BORING BAR REDUCTION 050 060	63	50	60	M25X1.5-LH	M16X1.5	10	0.9	A
F1MD80X-RED050060	MOD80 BORING BAR REDUCTION 050 060	80	50	60	M25X1.5-LH	M16X1.5	10	1.6	A
F1MD80X-RED063080	MOD80 BORING BAR REDUCTION 063 080	80	63	80	M30X1.5-LH	M20X2	10	2	A

BORING BARS

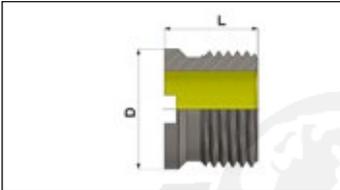
Spares

Vari lock screw



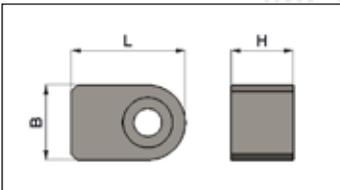
Part No.	Product name	Hex	L
F1VSWM-07M16	VARI LOCK STOPPER SCREW M16 X 1.5 - 7mm	7	40
F1VSWM-10M16	VARI LOCK STOPPER SCREW M16 X 1.5 - 10mm	10	40
F1VSWM-07M20	VARI LOCK STOPPER SCREW M20 X 2 - 7mm	7	50
F1VSWM-10M20	VARI LOCK STOPPER SCREW M20 X 2 - 10mm	10	50

Retaining nut



Part No.	Product name	L
F1SWLM-25M25	LOCKING SCREW L.H. M25 X 1.5	20
F1SWLM-25M30	LOCKING SCREW L.H. M30 X 1.5	25

Driving Key



Part No.	Product name	B	H	L
F1DRKY-12S27	DRIVING KEY 12 27	12	10	18.3
F1DRKY-16S40	DRIVING KEY 16 40	16	16	24
F1DRKY-16M63	DRIVING KEY MOD63 16 40	16	13	24

IMPORTACIONES INDUSTRIALES BENDEZU E.I.R.L.



SQUARE SHANK COLLET CHUCK



IMPORTACIONES INDUSTRIALES BENDEZU E.I.R.L.

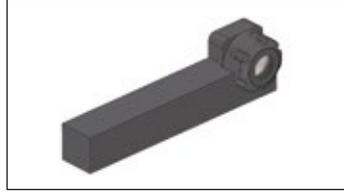
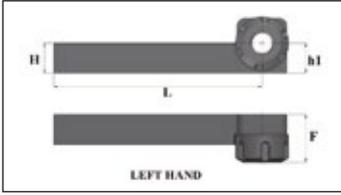
Features:

- *Allows you to use unused tool pockets
- *Frees up drill chucks and collet holders in the turret
- *To hold center drills, drills , CSK drills & boring bars
- *Increases tooling arrangement flexibility
- *Can be used on manual & CNC lathes

SQUARE SHANK COLLET CHUCK

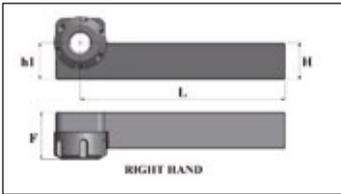
SQUARE SHANK COLLET CHUCK

Square Shank-LH



Part No.	Product name	H	L	F	H=h1	Nut	Kgs
F1SQ20L-ERS20032	SQ SHANK20 ER20 032	20	137.5	32	20	F15500-20ERS	0.57
F1SQ25L-ERS20032	SQ SHANK25 ER20 032	25	137.5	32	25	F15500-20ERS	0.76

Square Shank-RH



Part No.	Product name	H	L	F	H=h1	Nut	Kgs
F1SQ20R-ERS20032	SQ SHANK20 ER20 032	20	137.5	32	20	F15500-20ERS	0.57
F1SQ25R-ERS20032	SQ SHANK25 ER20 032	25	137.5	32	25	F15500-20ERS	0.76

Square Shank-LH & RH (KIT)



Part No.	Product name	Collet	Size	DIA	Kgs
F1SQ20L-ERS20KIT	SQ SHANK20 ER20 COLLET HOLDER SET	ER20	3-12	3,4,5,6,8,10&12	0.81
F1SQ25L-ERS20KIT	SQ SHANK25 ER20 COLLET HOLDER SET	ER20	3-12	3,4,5,6,8,10&12	1.01
F1SQ20R-ERS20KIT	SQ SHANK20 ER20 COLLET HOLDER SET	ER20	3-12	3,4,5,6,8,10&12	0.81
F1SQ25R-ERS20KIT	SQ SHANK25 ER20 COLLET HOLDER SET	ER20	3-12	3,4,5,6,8,10&12	1.01

KIT Includes, Square shank with 7 collets (Dia: 3,4,5,6,8,10&12)



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