

Birla Precision

Machining Center Tooling

ISO 9001 : 2000
ISO 14001 : 2004
CERTIFIED



BPT
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THE YASH BIRLA GROUP

BIRLA PRECISION

AT3 CLASS PRECISION ROTATING TOOL HOLDERS

AT3

WHAT DOES AT3 CLASS MEAN ?

According to the ISO standards, there are 7 Angular Tolerance (AT) grades, as given under.
ATD - Values in mm and **AT α** Angular Values in Seconds.

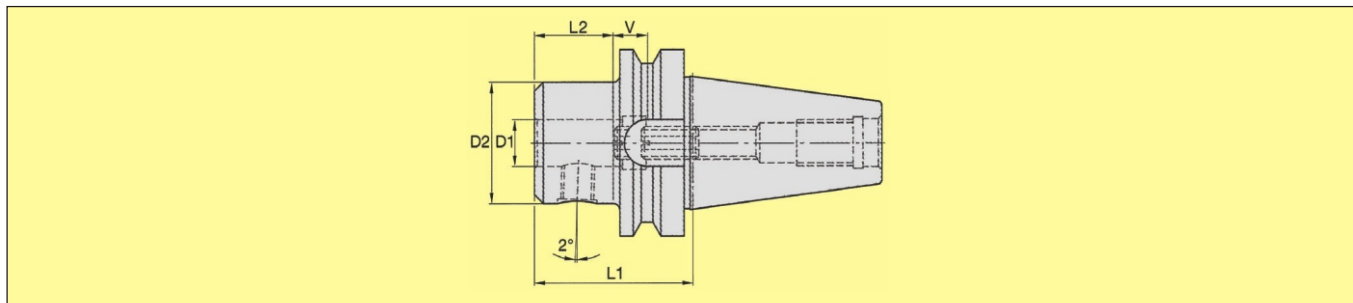
TOLERANCE ZONES

Taper		Gauges				Hi-Speed/Hi Accuracy Machining				Normal Machining		Utility Application			
		Master		Working		AT 2		AT 3		AT 4		AT 5		AT 6	
		AT 0	AT 1	AT 2	AT 3	AT 4	AT 5	AT 6							
Size	Length	ATD	AT α	ATD	AT α	ATD	AT α	ATD	AT α	ATD	AT α	ATD	AT α	ATD	AT α
30	47,63	0,0006	0"	0,0010	4"	0,0015	6"	0,0023	10"	0,0038	16"	0,0061	26"	0,0095	41"
40	68,25	0,00069	0"	0,0011	3"	0,0017	5"	0,0028	8"	0,0043	13"	0,0069	21"	0,0109	33"
50	101,60	0,0011	0"	0,0017	2,5"	0,0020	4"	0,0033	6"	0,0051	10"	0,0081	16"	0,0127	26"

BT30 Shank Tools

MAS 403, JIS B 6339

Whistle Notch Adapters – Metric



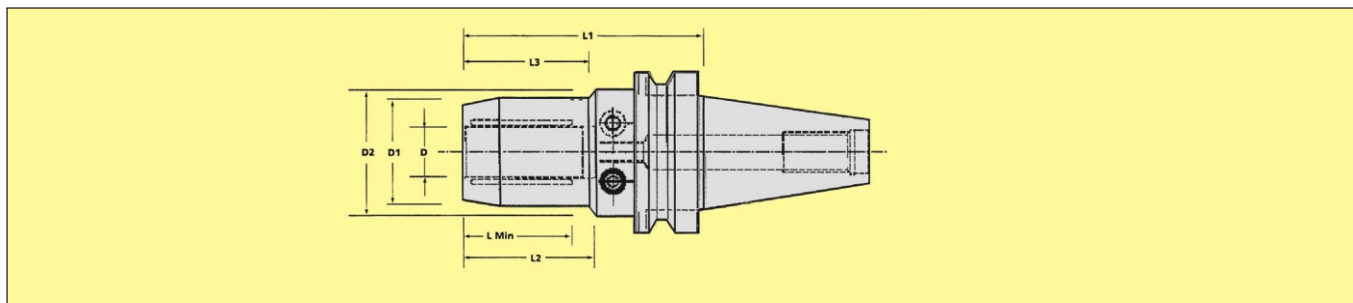
- Balanced-by-design,
- Through the tool holder coolant capability
- Order Example – BT30WN06080M
- Balanced G6.3 @ 15,000 rpm, & G2.5 at 20,000 rpm available on request
- Order Example – BT30WN06080M – G6.3

Catalogue No	D1	D2	L1	L2	V	Wt. Kg.	Clamp Screw	Allen Key	Stop Screw	Hex
BT30WN06080M	6	25	80	28	8	0.47	BWS6MPKG	3 mm	B.571.060	2.5 mm
BT30WN08080M	8	28	80	28	10	0.49	BWS8MPKG	4 mm	B.571.061	3.0 mm
BT30WN10080M	10	35	80	32	10	0.58	BWS10MPKG	5 mm	B.571.062	4.0 mm
BT30WN12090M	12	42	90	37	10	0.66	BWS12MPKG	6 mm	B.571.063	5.0 mm
BT30WN14090M	14	44	90	37	10	0.68	BWS12MPKG	6 mm	B.571.063	5.0 mm
BT30WN16090M	16	48	90	40	12	0.71	BWS14MPKG	6 mm	B.571.064	6.0 mm

BT30 Shank Tools

MAS 403, JIS B 6339

Hydraulic Chucks



- Pre Balanced G6.3 @ 15,000 rpm,
- Through tool holder coolant capability
- Order Example – BT30-SHYD06-080M,
- Dynamically balanced to G6.3 at 15,000 rpm, & G2.5 at 20,000 rpm available on request
- Order Example – BT30-SHYD06-080M–G2.5

Hydraulic Chucks – Metric

Catalogue No.	D	D1	D2	L1	L2	L3	L Min.	Pressure Screw	Stop Screw	Wt. Kg
BT30-SHYD06-075M	6	26	50	75	38	24	23	SHYDC-0717	CSS-0510M	0.59
BT30-SHYD08-075M	8	28	50	75	38	24	24	SHYDC-0717	CSS-0510M	0.61
BT30-SHYD10-080M	10	30	50	80	40	26	30	SHYDC-0717	CSS-0612M	0.65
BT30-SHYD12-085M	12	32	50	85	45	40	36	SHYDC-0717	CSS-0615M	0.69
BT30-SHYD14-100M	14	34	50	100	45	40	40	SHYDC-0717	CSS-0812M	1.00
BT30-SHYD16-100M	16	38	50	100	50	46	40	SHYDC-0717	CSS-0812M	1.06
BT30-SHYD18-100M	18	40	50	100	52	50	43	SHYDC-0717	CSS-0815M	1.09
BT30-SHYD20-100M	20	42	50	100	52	50	43	SHYDC-0717	CSS-0815M	1.11

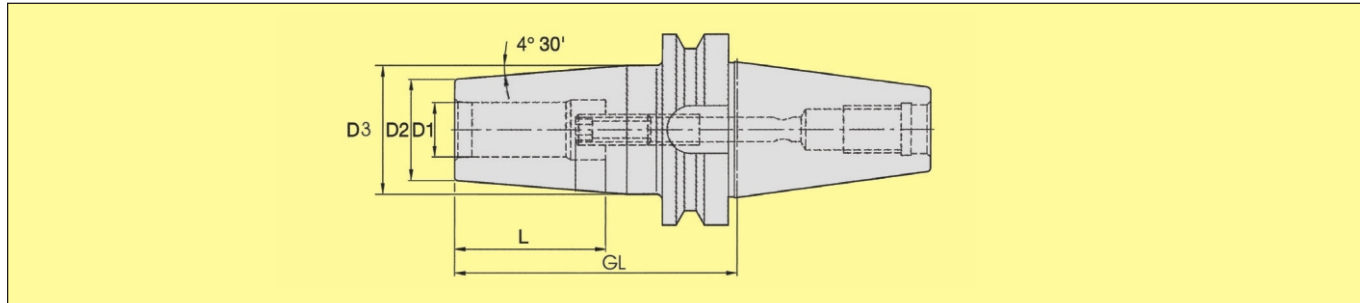
Hydraulic Chucks – Inch

Catalogue No.	D	D1	D2	L1	L2	L3	L Min.	Pressure Screw	Stop Screw	Wt. Lbs
BT30-SHYD025-295	¼"	26	50	2.95"	38	24	23	SHYDC-0717	CSS-0510M	1.30
BT30-SHYD038-315	3/8"	30	50	3.15"	40	26	30	SHYDC-0717	CSS-0612M	1.43
BT30-SHYD050-335	½"	32	50	3.35"	45	40	36	SHYDC-0717	CSS-0615M	1.50
BT30-SHYD075-395	¾"	42	50	3.95"	50	50	40	SHYDC-0717	CSS-0812M	2.65

BT30 Shank Tools

MAS 403, JIS B 6339

Shrink Fit Adapters – Metric



- Pre Balanced G6.3 @ 15,000 rpm,
- Through the tool holder coolant capability
- Order Example – BT30SF06075M,
- Dynamically balanced to G2.5 at 20,000 rpm available on request
- Order Example – BT30SF06075M-G2.5

Catalogue No	D1	D2	D3	GL	L	Wt. Kg.	Stop Screw	Wrench Size Stop Screw
BT30SF06075M	6	20	27	75	36	0.56	BTTSS05014M	2.5 mm
BT30SF08075M	8	20	27	75	36	0.56	BTTSS06014M	3 mm
BT30SF10075M	10	24	32	75	42	0.60	BTTSS08014M	4 mm
BT30SF12075M	12	24	32	75	47	0.59	BTTSS10014M	5 mm
BT30SF14075M	14	27	34	75	47	0.63	BTTSS10014M	5 mm
BT30SF16075M	16	27	34	75	50	0.61	BTTSS12014M	6 mm
BT30SF18090M	18	33	42	90	50	0.85	BTTSS12014M	6 mm
BT30SF20090M	20	33	42	90	52	0.82	BTTSS16014M	8 mm

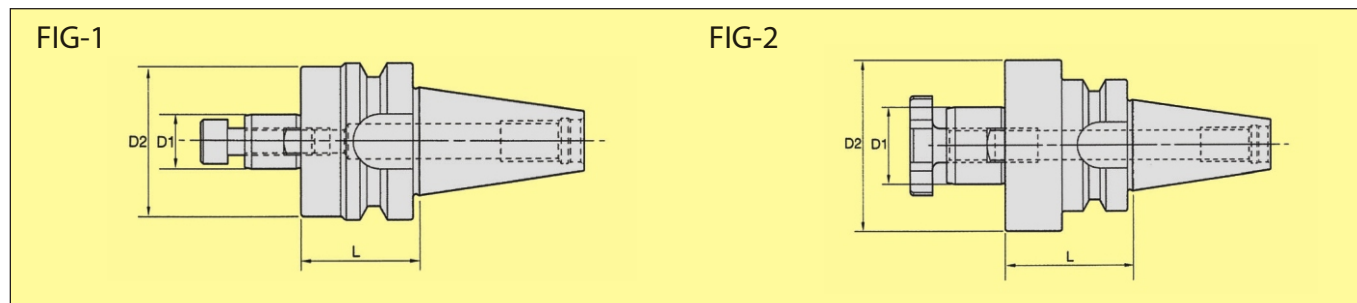
Shrink Fit Adapters – Inch.

Catalogue No	D1	D2	D3	GL	L	Wt. Lbs	Stop Screw	Wrench Size Stop Screw
BT30SF025295	¼	0.79	1.06	2.95	1.41	1.24	BTTSS05014M	2.5 mm
BT30SF031295	5/16	0.79	1.06	2.95	1.41	1.23	BTTSS06014M	3 mm
BT30SF038295	3/8	0.95	1.26	2.95	1.65	1.33	BTTSS08014M	4 mm
BT30SF044295	7/16	0.95	1.26	2.95	1.85	1.31	BTTSS10014M	5 mm
BT30SF050295	½	0.95	1.26	2.95	1.85	1.29	BTTSS10014M	5 mm
BT30SF056295	9/16	1.06	1.34	2.95	1.85	1.38	BTTSS10014M	5 mm
BT30SF062295	5/8	1.06	1.34	2.95	1.96	1.34	BTTSS12014M	6 mm
BT30SF068354	11/16	1.30	1.61	3.54	1.96	1.88	BTTSS12014M	6 mm
BT30SF075354	¾	1.30	1.61	3.54	2.00	1.82	BTTSS16014M	8 mm

BT30 Shank Tools

MAS 403, JIS B 6339

Shell Mill Adapters – Metric



- Balanced by Design,
- Through the tool holder coolant capability
- Order Example – BT30SM16035M

Catalogue No	FIG	D1	D2	L	Wt. Kg.	Lock Screw	Wrench	Drive Key
BT30SM16035M	1	16	44	35	0.56	BMS1294	6 mm	BKDK16M
BT30SM22040M	1	22	50	40	0.70	BMS1234	8 mm	BKDK22M
BT30SM27045M	2	27	60	45	0.98	BKLS27MPKG	BSMW27M	BKDK27M

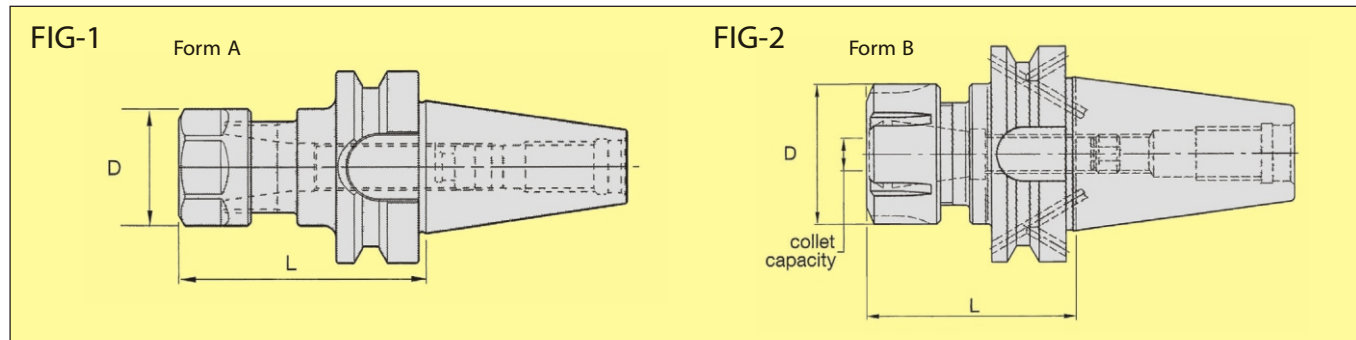
Shell Mill Adapters – Inch

Catalogue No	FIG	D1	D2	L	Wt. Lbs	Lock Screw	Wrench	Drive Key
BT30SM050118	2	½	1.44	1.18	2.10	BKLS05	3/16	BKDK04
BT30SM075118	2	¾	1.69	1.18	2.30	BKLS07	1/4	BKDK05
BT30SM100177	2	1.00	2.19	1.77	2.48	BKLS10	5/16	BKDK06

BT40 Shank Tools

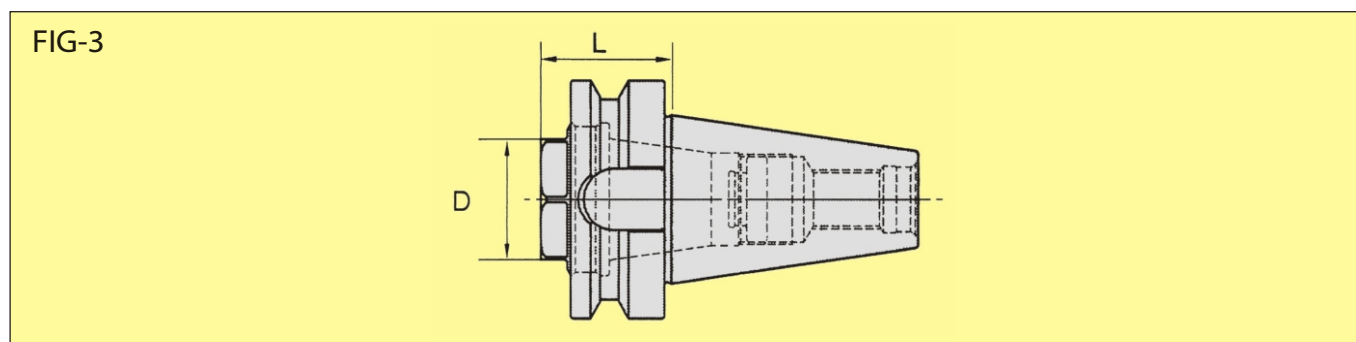
MAS 403, JIS B 6339

ER Collet Chucks



- Balanced by Design,
 - Through tool holder coolant capability.
 - Order Example – BT40ER16060M
 - Dynamically balanced to & G6.3 @ 15,000 rpm, G2.5 at 20,000 rpm available on request
 - Order Example – BT40ER16060M-G2.5
- Flange through coolant Form B/AD available on request
Order Example – BT40BER16060M

Catalogue No	Collt Series	Collet Cap Min.-Max.	Fig	D	L	Wt. Kg.	Locknut	Wrench	Stop Screw
BT40ER16060M	16ER	0.5 - 10	1	28	60	1.4	LNHER16M	OEW25M	BSS044038G
BT40ER16120M	16ER	0.5 - 10	1	28	120	1.6	LNHER16M	OEW25M	BSS044038G
BT40ER25070M	25ER	1 - 16	2	42	70	1.3	LNER25M	ER25WM	BSS075041G
BT40ER25120M	25ER	1 - 16	2	42	120	1.6	LNER25M	ER25WM	BSS075041G
BT40ER32070M	32ER	2 - 20	2	50	70	1.4	LNER32M	ER32WM	BSS094041G
BT40ER32120M	32ER	2 - 20	2	50	120	1.7	LNER32M	ER32WM	BSS094041G
BT40ER40080M	40ER	3 - 26	2	63	80	1.5	LNER40M	ER40WM	BSS112041G
BT40ER40120M	40ER	3 - 26	2	63	120	1.8	LNER40M	ER40WM	BSS112041G
BT40BER16060M	16ER	0.5 - 10	1	28	60	1.4	LNHER16M	OEW25M	BSS044038G
BT40BER16120M	16ER	0.5 - 10	1	28	120	1.6	LNHER16M	OEW25M	BSS044038G
BT40BER25070M	25ER	1 - 16	2	42	70	1.3	LNER25M	ER25WM	BSS075041G
BT40BER25120M	25ER	1 - 16	2	42	120	1.6	LNER25M	ER25WM	BSS075041G
BT40BER32070M	32ER	2 - 20	2	50	70	1.4	LNER32M	ER32WM	BSS094041G
BT40BER32120M	32ER	2 - 20	2	50	120	1.7	LNER32M	ER32WM	BSS094041G
BT40BER40080M	40ER	3 - 26	2	63	80	1.5	LNER40M	ER40WM	BSS112041G
BT40BER40120M	40ER	3 - 26	2	63	120	1.8	LNER40M	ER40WM	BSS112041G

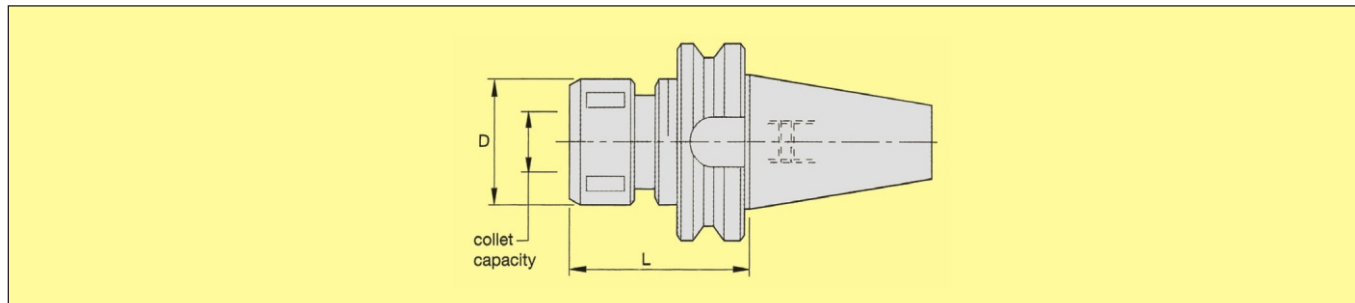


Catalogue No	Collt Series	Collet Cap Min.-Max.	Fig	D	L	Wt. Kg.	Locknut	Wrench	Stop Screw
BT40SER32035M	32ER	2 - 20	3	36	35	0.75	LNECER32M	OEW32M	SS094041G

BT40 Shank Tools

MAS 403, JIS B 6339

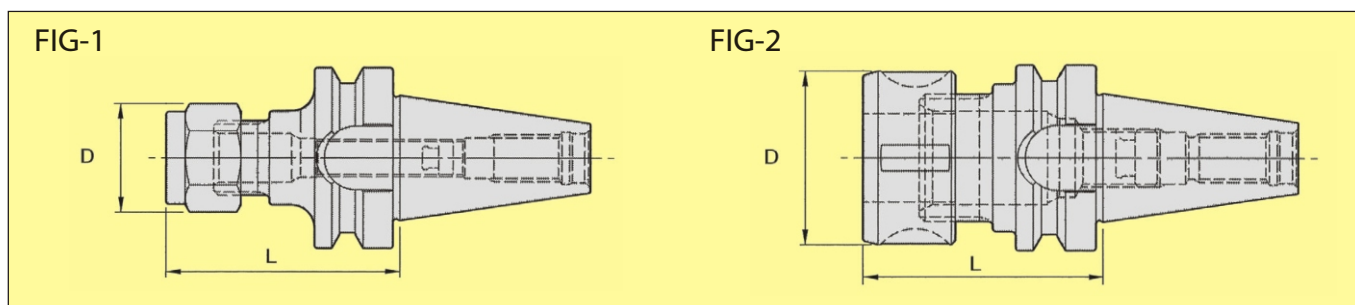
TG Collet Chucks



- Tremendous grip, Balanced by Design, Through tool holder coolant capability
- Order Example – BT40TG07570M
- Dynamically balanced to G6.3 @ 15,000 rpm, & G2.5 at 20,000 rpm available on request
- Order Example – BT40TG07570M-G2.5
- Flange through coolant Form B/AD available on request
- Order Example – BT40BTG07570M

Catalogue No	Collet Series	Collet Cap Min.-Max.	D	L	Wt. Kg.	Locknut	Wrench	Stop Screw
BT40TG07570M	75TG	2.6 -20	50	70	1.4	LNA075M	HSW45M	BSS081041G
BT40TG100080M	100TG	2.6 -25.5	60	80	1.4	LNA100M	HSW58M	BSS112041G
BT40TG100100M	100TG	2.6 -25.5	60	100	1.8	LNA100M	HSW58M	BSS112041G
BT40TG100150M	100TG	2.6 -25.5	60	150	2.5	LNA100M	HSW58M	BSS112041G
BT40TG150110M	150TG	11.6 - 40	85	110	2.5	LNA150M	HSW80M	BSS112041G

DA Collet Chucks



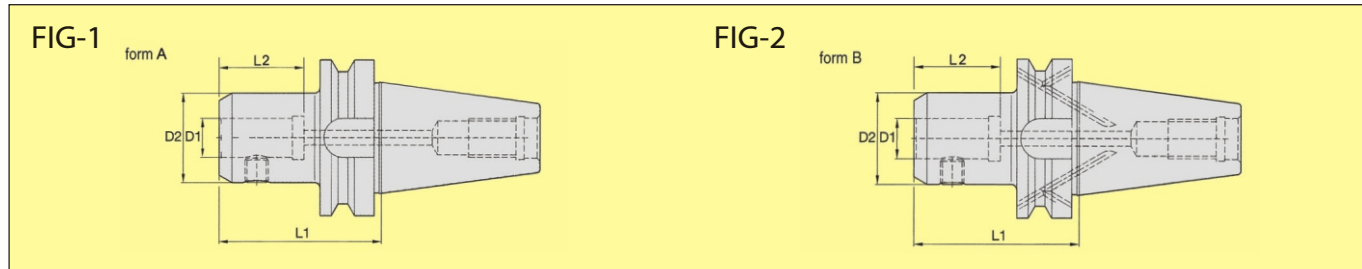
- Balanced by Design, Through tool holder coolant capability. Flange through coolant Form B/AD available on request
- Order Example – BT40DA208070M
- Dynamically balanced to G6.3 @ 15,000 rpm, & G2.5 at 20,000 rpm available on request
- Order Example – BT40DA208070M-G2.5

Catalogue No	Collet Series	Collet Cap Min.-Max.	Fig	D	L	Wt. Kg.	Locknut	Wrench	Stop Screw
BT40DA208070M	200DA	0.2 - 10	1	28	70	1.0	LNA208M	OEW24M	BSS038031G
BT40DA108070M	100DA	1.7 - 14	1	37	70	1.0	LNA108M	OEW32M	BSS056041G
BT40DA188070M	180DA	2.2 - 20	2	43	70	1.2	LNA188M	HSW45M	BSS081041G
BT40DA188100M	180DA	2.2 - 20	2	43	100	1.4	LNA188M	HSW45M	BSS081041G
BT40DA188150M	180DA	2.2 - 20	2	43	150	1.7	LNA188M	HSW45M	BSS081041G

BT40 Shank Tools

MAS 403, JIS B 6339

End Mill Adapters – Metric



- Balanced by Design, Through tool holder coolant capability Flange through coolant Form B/AD available on request
- Order Example – BT40EM06050M Order Example – BT40BEM06050M
- Dynamically balanced to G6.3 @ 15,000 rpm & G2.5 at 20,000 rpm, available on request
- Order Example – BT40EM06050M-G2.5

End Mill Adapters – Metric

Catalogue No	FIG	D1	D2	L1	L2	Wt. Kg.	Clamping Screw	No of Clamp Screw	Wrench Allen Key
BT40EM06050M	1	6	25	50	40	1.0	BSS03M012	1	3mm
BT40EM08050M	1	8	28	50	40	1.04	BSS03M014	1	4 mm
BT40EM10063M	1	10	35	63	45	1.17	BSS03M018	1	5 mm
BT40EM12063M	1	12	42	63	50	1.26	BSS03M023	1	6 mm
BT40EM14063M	1	14	44	63	50	1.29	BSS03M023	1	6 mm
BT40EM16063M	1	16	48	63	53	1.34	BSS03M025	1	6 mm
BT40EM18063M	1	18	50	63	53	1.36	BSS03M025	1	6 mm
BT40EM20063M	1	20	52	63	55	1.40	BSS03M026	1	8 mm
BT40EM25090M	1	25	65	90	60	2.22	BSS03M027	2	10 mm
BT40EM32110M	1	32	72	110	65	2.5	BSS03M029	2	10 mm
BT40BEM06050M	2	6	25	50	40	1.0	BSS03M012	1	3mm
BT40BEM08050M	2	8	28	50	40	1.04	BSS03M014	1	4 mm
BT40BEM10063M	2	10	35	63	45	1.17	BSS03M018	1	5 mm
BT40BEM12063M	2	12	42	63	50	1.26	BSS03M023	1	6 mm
BT40BEM14063M	2	14	44	63	50	1.29	BSS03M023	1	6 mm
BT40BEM16063M	2	16	48	63	53	1.34	BSS03M025	1	6 mm
BT40BEM18063M	2	18	50	63	53	1.36	BSS03M025	1	6 mm
BT40BEM20063M	2	20	52	63	55	1.40	BSS03M026	1	8 mm
BT40BEM25090M	2	25	65	90	60	2.22	BSS03M027	2	10 mm
BT40BEM32110M	2	32	72	110	65	2.5	BSS03M029	2	10 mm

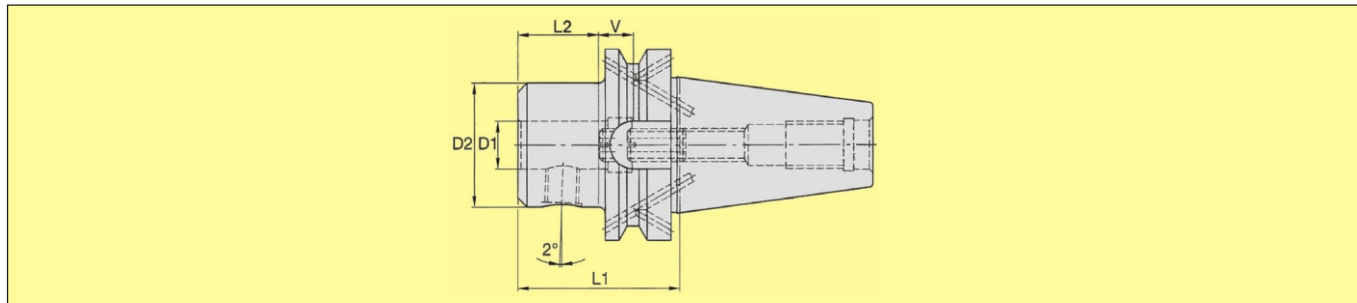
End Mill Adapters–Inch.

Catalogue No	FIG	D1	D2	L1	L2	Wt. Lbs	Clamping Screw	No of Clamp Screw	Wrench Allen Key
BT40EM025255	1	1/4	1.00	2.55	3.93	2.36	BELS025025PKG	1	1/8
BT40EM031255	1	5/16	1.00	2.55	3.93	2.36	BELS031031PKG	1	5/32
BT40EM038255	1	3/8	1.00	2.55	3.93	2.51	BELS038031PKG	1	3/16
BT40EM050255	1	1/2	1.38	2.55	3.93	2.51	BELS044038PKG	1	7/32
BT40EM050400	1	1/2	1.38	4.00	5.38	3.02	BELS044038PKG	1	7/32
BT40EM062255	1	5/8	1.63	2.55	2.09	2.69	BELS056050PKG	1	¼
BT40EM075150	1	3/4	1.68	1.50	2.22	2.09	BELS062050PKG	1	5/16
BT40EM075255	1	3/4	1.75	2.55	2.22	2.73	BELS062050PKG	1	5/16
BT40EM088335	1	7/8	2.00	3.35	2.22	3.57	BELS062050PKG	1	5/16
BT40EM100162	1	1	2.04	1.63	2.46	2.01	BELS075044PKG	2	3/8
BT40EM100374	1	1	2.00	3.74	2.56	3.75	BELS075056PKG	2	3/8
BT40EM100500	1	1	2.00	5.00	4.49	4.54	BELS075056PKG	2	3/8
BT40EM125250	1	1 1/4	2.46	2.50	2.51	3.04	BELS075062PKG	2	3/8
BT40EM125335	1	1 1/4	2.40	3.35	2.51	3.95	BELS075056PKG	2	3/8

BT40 Shank Tools

MAS 403, JIS B 6339

Whistle Notch Adapters



- Balance by design, Through tool holder coolant capability
- Order Example – BT40BWN06050M
- Dynamically balanced to G6.3 @ 15,000 rpm, & G2.5 at 20,000 rpm available on request
- Order Example – BT40BWN06050M G2.5

Whistle Notch Adapters – Metric

Catalogue No	D1	D2	L1	L2	V	Wt. Kg.	Clamp Screw	Allen Key	Stop Screw	Hex
BT40BWN06050M	6	25	50	30	10	1.03	BSS03M012	3 mm	B.571.060	2.5 mm
BT40BWN08050M	8	28	50	30	10	1.05	BSS03M014	4 mm	B.571.067	3.0 mm
BT40BWN10063M	10	35	63	35	10	1.18	BSS03M018	5 mm	B.571.068	4.0 mm
BT40BWN12063M	12	42	63	40	10	1.27	BSS03M023	6 mm	B.571.068	5.0 mm
BT40BWN14063M	14	44	63	40	10	1.29	BSS03M023	6 mm	B.571.074	5.0 mm
BT40BWN16063M	16	48	63	43	10	1.34	BSS03M025	6 mm	B.571.075	6.0 mm
BT40BWN18063M	18	50	63	43	10	1.36	BSS03M025	6 mm	B.571.075	6.0 mm
BT40BWN20063M	20	52	63	45	10	1.36	BSS03M026	8 mm	B.571.076	6.0 mm
BT40BWN25090M	25	65	90	55	10	2.16	BSS03M027	10 mm	B.571.076	6.0 mm
BT40BWN32100M	32	72	100	54	10	2.58	BSS03M029	10 mm	B.571.076	6.0 mm

Short Whistle Notch Adapters

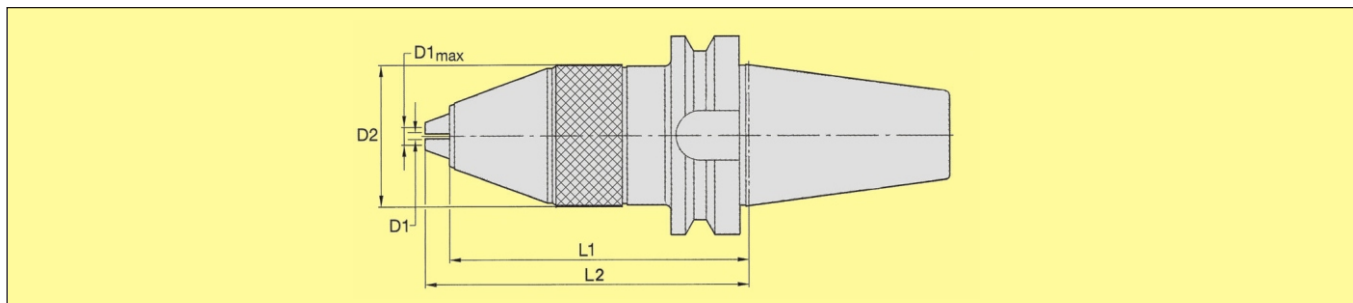
WN-BT Form B/AD

Catalogue No	D1	D2	L1	L2	V	Wt. Kg.	Clamp Screw	Allen Key	Stop Screw	Hex
BT40BSWN25075M	25	65	75	60	16	2.00	BSS03M027	10 mm	B.571.066	10 mm
BT40BSWN32075M	32	72	75	64	16	2.30	BSS03M029	10 mm	B.571.066	10 mm

BT40 Shank Tools

MAS 403, JIS B 6339

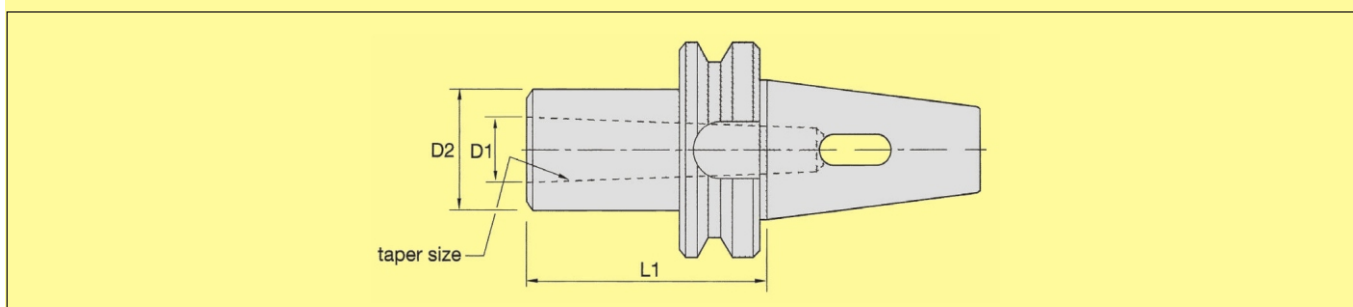
Drill Chucks



- Balance by-design, Through tool holder coolant capability
- Order Example – BT40DC13096M

Catalogue No	D1Min.-Max	D2	L1	L2	Wt. Kg	Wrench
BT40DC13096M	1 - 13	50.50	96.40	108.50	1.80	13S

Morse Taper Adapters



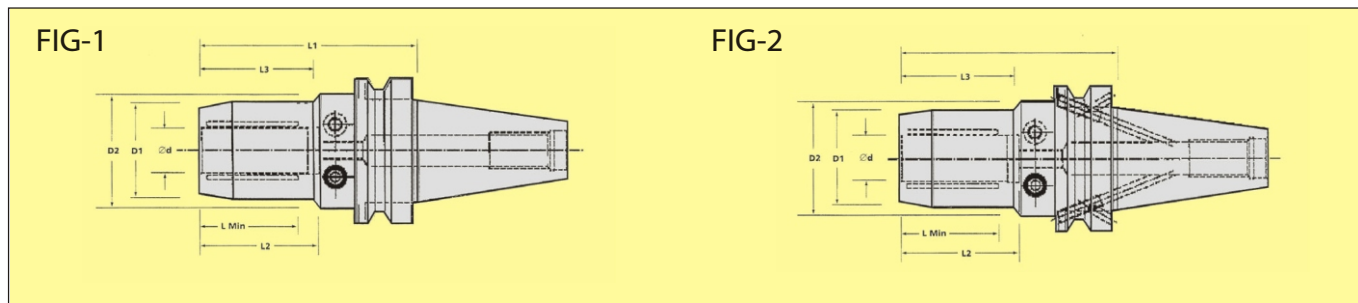
- Balance by-design, No through coolant capability, Form-AD
- Recommended for tools with a morse taper and tang
- Order Example – BT40MT1050M

Catalogue No	Taper Size	D1	D2	L1	Wt. Kg.
BT40MT1050M	1	12.1	25	50	1.01
BT40MT2050M	2	17.8	32	50	1.06
BT40MT3070M	3	23.80	40	70	1.13
BT40MT4095M	4	31.3	48	95	1.33

BT40 Shank Tools

MAS 403, JIS B 6339

Hydraulic Chucks



- Pre Balanced G6.3 @ 15,000 rpm, Through tool holder coolant capability
- Order Example – BT40-SHYD06-080M
- Dynamically balanced to G2.5 at 20,000 rpm available on request
- Order Example – BT40-SHYD06-080MG2.5

Flange through coolant Form B/AD available on request
Order Example – BT40B-SHYD06-080M

Hydraulic Chucks – Metric

Catalogue No.	D	D1	D2	L1	L2	L3	L Min.	Pressure Screw	Stop Screw	Wt. kg
BT40-SHYD06-080M	6	26	50	80	38	24	23	SHYDC-0717	CSS-0510M	2.50
BT40-SHYD08-080M	8	28	50	80	38	24	24	SHYDC-0717	CSS-0510M	2.50
BT40-SHYD10-080M	10	30	50	80	40	26	30	SHYDC-0717	CSS-0612M	2.50
BT40-SHYD12-090M	12	32	50	90	45	40	36	SHYDC-0717	CSS-0615M	2.50
BT40-SHYD14-090M	14	34	50	90	45	40	40	SHYDC-0717	CSS-0812M	3.00
BT40-SHYD16-090M	16	38	50	90	50	46	40	SHYDC-0717	CSS-0812M	3.00
BT40-SHYD18-095M	18	40	50	95	52	50	43	SHYDC-0717	CSS-0815M	3.00
BT40-SHYD20-095M	20	42	50	95	52	50	43	SHYDC-0717	CSS-0815M	3.00
BT40-SHYD25-105M	25	53		105	59		46	SHYDC-0720	CSS-1015M	4.00
BT40-SHYD32-110M	32	60		110	60		51	HYDC-1020	CSS-1015M	4.00

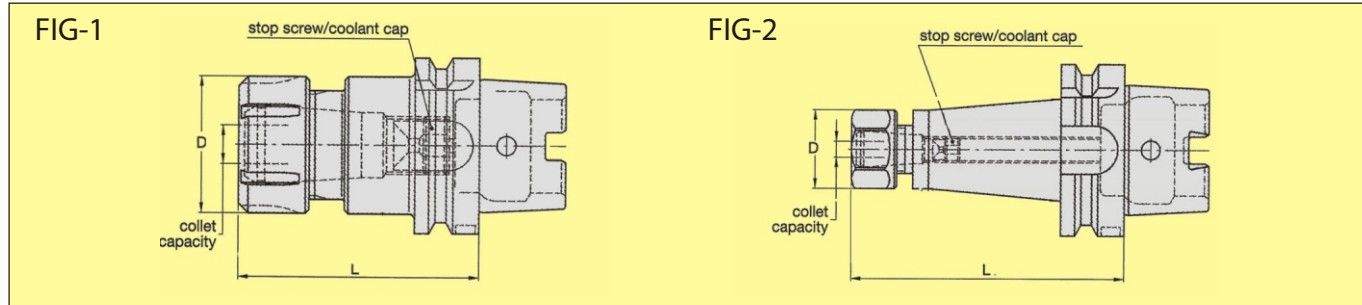
Hydraulic Chucks – Inch

Catalogue No.	D	D1	D2	L1	L2	L3	L Min.	Pressure Screw	Stop Screw	Wt. kg
BT40-SHYD025-315	1/4"	26	50	3.15"	38	24	23	SHYDC-0717	CSS-0510M	2.87
BT40-SHYD038-335	3/8"	30	50	3.35"	40	26	30	SHYDC-0717	CSS-0612M	3.04
BT40-SHYD050-354	1/2"	32	50	3.54"	45	40	40	SHYDC-0717	CSS-0615M	3.15
BT40-SHYD062-354	5/8"	38	50	3.54"	50	46	40	SHYDC-0717	CSS-0812M	3.24
BT40-SHYD075-374	3/4"	42	50	3.74"	52	50	43	SHYDC-0717	CSS-0815M	3.50
BT40-SHYD100-450	1.0"	53		4.50"	59		46	SHYDC-0720	CSS-1015M	4.81
BT40-SHYD125-470	1 1/4"	60		4.70"	60		51	HYDC-1020	CSS-1015M	5.45

HSK 63A Shank Tools

DIN 69893 part 1, form A

ER Collet Chucks



Balanced by Design, Through the tool holder coolant capability

Order Example – HSK63AER25100M

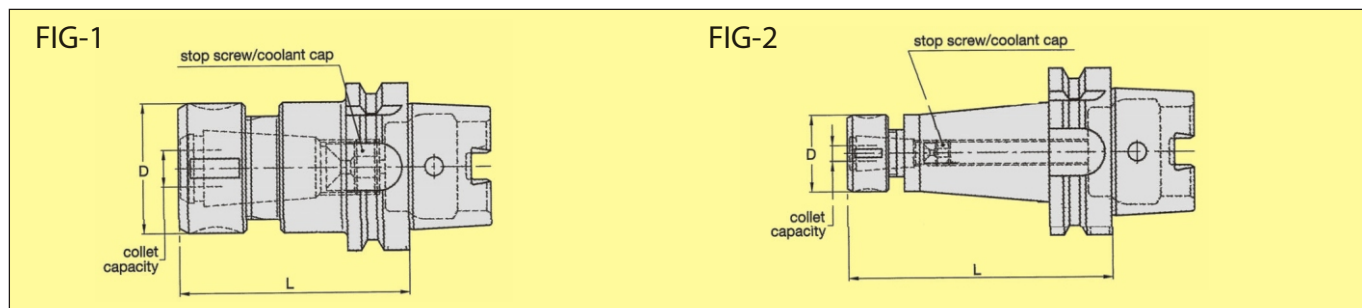
Dynamically balanced to G6.3 @ 15,000 rpm & G2.5 at 20,000 rpm, available on request

Order Example – HSK63AER25100M-G2.5

ER Collet Chucks

Catalogue No	Collet Series	Collet Cap Min.-Max.	Fig	D	L	Wt. Kg.	Locknut	Wrench	Stop Screw
HSK63AER16100M	16ER	0.5 – 10	2	28	100	0.90	LNHER16M	OEW25WM	BSS044038G
HSK63AER16160M	16ER	0.5 – 10	2	28	160	1.32	LNHER16M	OEW25WM	BSS044038G
HSK63AER20100M	20ER	0.5 – 13	2	34	100	1.03	LNHER20M	OEW30M	BSS056041G
HSK63AER25100M	25ER	1 – 16	1	42	100	1.18	LNER25M	ER25WM	BSS075041G
HSK63AER32100M	32ER	2 – 20	1	50	100	1.37	LNER32M	ER32WM	BSS094041G
HSK63AER40120M	40ER	3 – 26	1	63	120	1.80	LNER40M	ER40WM	BSS112041G

TG Collet Chucks



• Order Example – HSK63ATG075115M, Through the tool holder coolant capability.

• Dynamically balanced to G6.3 @ 15,000 rpm & G2.5 at 20,000 rpm available on request

• Order Example – HSK63ATG075115M-G2.5

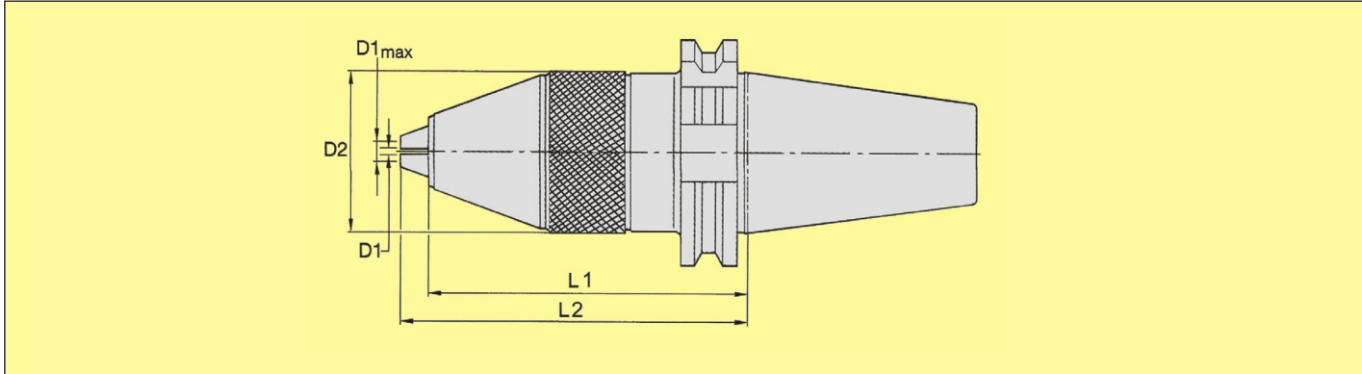
TG Collet Chucks

Catalogue No	Collet Series	Collet Cap Min.-Max.	Fig	D	L	Wt. Kg.	Locknut	Wrench	Stop Screw
HSK63ATG075115M	75TG	2.6 – 20.00	1	50	115	1.65	LNA075M	HSW45M	BSS081041G
HSK63ATG100135M	100TG	2.6 – 25.50	1	60	135	2.05	LNA100M	HSW58M	BSS112041G

DV 50 Shank Tools

DIN 69871

Drill Chucks

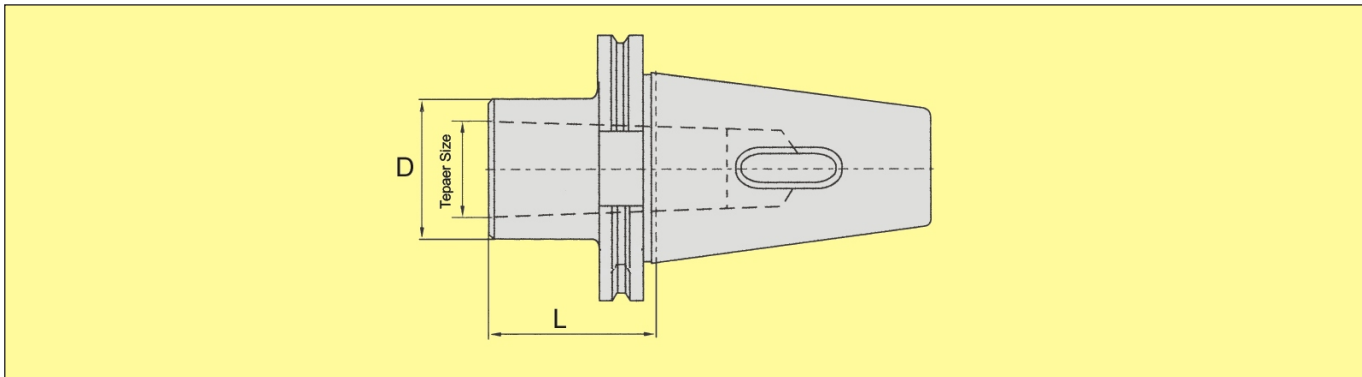


- Balance by-design, No through coolant capability
- Order Example – DV50DC13090M

Drill Chuck Adaptors.

Catalogue No	D1Min.-Max	D2	L1	L2	Wt.Kg.	Wrench
DV50DC13090M	1 - 13	50.50	90.5	102.5	3.50	13S

Morse Taper Adaptors



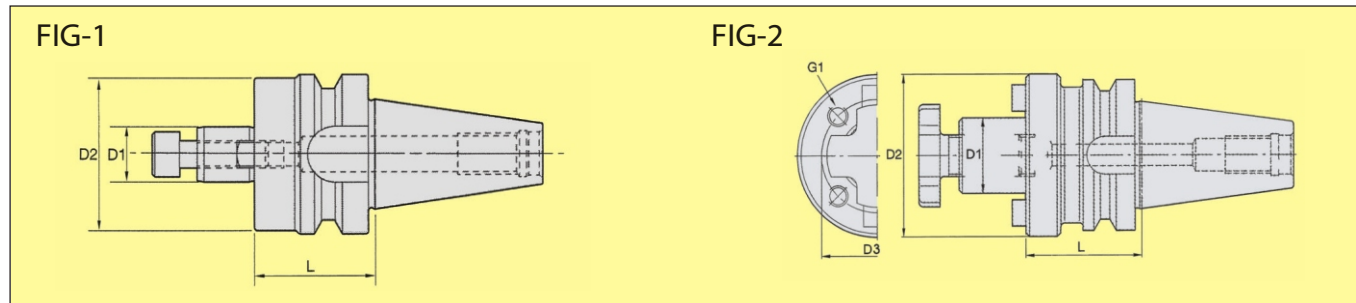
- Balance by-design, No through coolant capability
- Recommended for tools with a Morse taper and tang
- Order Example – DV50MT1050M

Catalogue No	Taper Size	D	L	Wt.Kg.
DV50MT1045M	1	25	45	1.80
DV50MT2060M	2	32	60	3.20
DV50MT3065M	3	40	65	3.20
DV50MT4095M	4	48	95	3.40
DV50MT5105M	5	63	105	3.80

BT40 Shank Tools

MAS 403, JIS B 6339

Shell Mill Adapters



- Balanced by Design, Through tool holder coolant capability-form AD
- Order Example – BT40SM16050M

Shell Mill Adapters – Metric

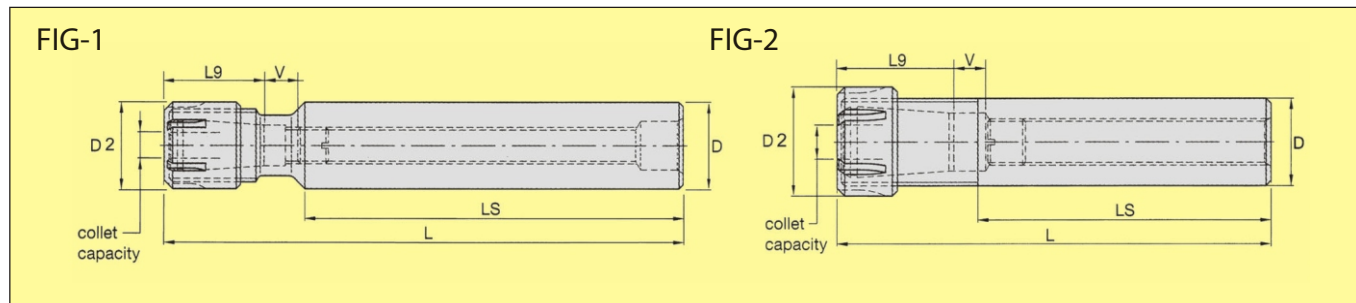
Catalogue No	FIG	D1	D2	D3	L	G1	WtKg	Lock Screw	Wench	Drive Key
BT40SM16050M	1	16	44		50		1.30	BMS1294	6 mm	BKDK16M
BT40SM22055M	1	22	50		55		1.50	BMS1234	8 mm	BKDK22M
BT40SM22100M	1	22	50		100		1.80	BMS1234	8 mm	BKDK22M
BT40SM27055M	2	27	50		55		1.50	BKLS27M	BSMW27M	BKDK27M
BT40SM27100M	2	27	50		100		2.90	BKLS27M	BSMW27M	BKDK27M
BT40SM32060M	2	32	78		60		2.20	BKLS32M	BSMW32M	BKDK32M
BT40SM32100M	2	32	78		100		3.10	BKLS32M	BSMW32M	BKDK32M
BT40SM40060M	2	40	89.3	66.7	60	M12-1.756H	3.60	BKLS40M	BSMW40M	BKDK40M
BT40SM40100M	2	40	89.3	66.7	100	M12-1.756H	4.00	BKLS40M	BSMW40M	BKDK40M

Shell Mill Adapters – Inch

Catalogue No	FIG	D1	D2	D3	L	G1	Wt.Lbs	LockScrew	Wrench	Dive Key
BT40SM050177	2	1/2	1.44		1.77		2.47	BKLS05	3/16	BKDK04
BT40SM050400	2	1/2	1.44		4.00		3.50	BKLS05	3/16	BKDK04
BT40SM075177	2	3/4	1.75		1.77		2.90	BKLS07	1/4	BKDK05
BT40SM075400	2	3/4	1.75		4.00		4.30	BKLS07	1/4	BKDK05
BT40SM075600	2	3/4	1.75		6.00		5.50	BKLS07	1/4	BKDK05
BT40SM100177	2	1.00	2.19		1.77		3.04	BKLS10	5/16	BKDK06
BT40SM100400	2	1.00	2.19		4.00		5.50	BKLS10	5/16	BKDK06
BT40SM100600	2	1.00	2.19		6.00		7.60	BKLS10	5/16	BKDK06
BT40SM125236	2	1.25	2.88		2.36		4.82	BKLS12	5/16	BKDK08
BT40SM125500	2	1.25	2.75		5.00		7.80	BKLS12	5/16	BKDK08
BT40SM150236	2	1.50	3.82		2.36		4.63	BKLS15	3/8	BKSA62PKG

Straight Shank Tools

ER Collets Straight Shank



- Through the tool holder coolant capability
- Order Example – SS120ER11107M

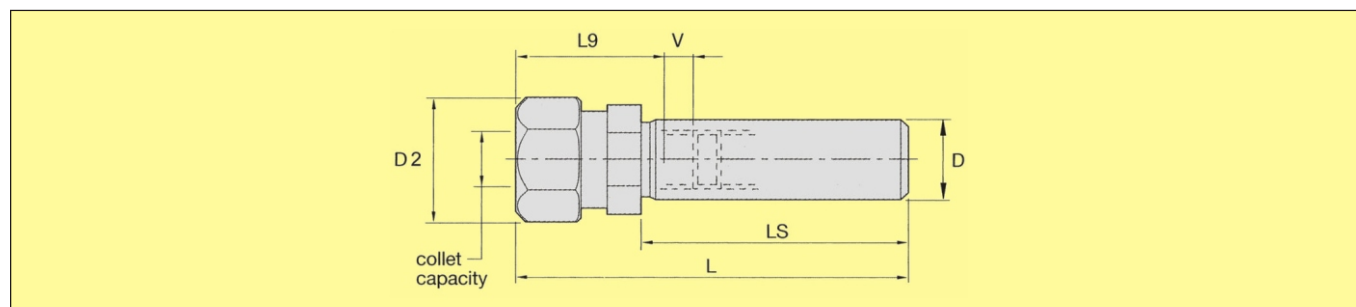
ER-SS – Metric

Catalogue No	Collet Series	Collet Cap Min.-Max.	Fig	D	D2	L	LS	L9	V	Wt. Kg.	Locknut	Wrench	Stop Screw
SS120ER11107M	11ER	0.5 - 7	1	12	16	107	80	24	56	0.32	LNER11M	ER11WBEM	BCSS0615M
SS160ER11132M	11ER	0.5 - 7	1	16	16	132	100	24	56	0.95	LNER11M	ER11WBEM	BCSS0615M
SS200ER16182M	16ER	0.5 - 10	1	20	22	182	140	32	68	1.38	LNER16M	ER16WBEM	BCSS1020M
SS200ER25146M	25ER	1.0 - 16	2	20	42	146	100	42	58	0.89	LNER25M	ER25WM	BCSS1225M
SS200ER32154M	32ER	1.0 - 20	2	20	50	154	100	49	51	0.94	LNER32M	ER32WM	BCSS1225M
SS250ER20190M	20ER	0.5 - 13	1	25	28	190	150	36	64	1.87	LNER20M	ER20WBEM	BCSS1225M

ER-SS – Inch

Catalogue No	Collet Series	Collet Cap Min.-Max.	Fig	D	D2	L	LS	L9	V	Wt. Lbs	Locknut	Wrench	Stop Screw
SS050ER11700	11ER	0.020-0.276	1	0.50	0.63	7.00	5.51	1.27	5.04	0.40	LNER11M	ER11WEM	BSS031031G
SS075ER16700	16ER	0.020-0.406	1	0.75	0.87	7.00	5.51	1.24	2.30	0.90	LNER16M	ER16WEM	BSS044038G
SS100ER20700	20ER	0.020-0.512	2	1.00	1.38	7.00	5.51	1.42	4.89	1.60	LNHER20M	OEW30M	BSS056041G
SS100ER25750	25ER	0.040-0.630	2	1.00	1.65	7.50	5.69	1.57	5.24	1.70	LNHER25M	ER25WM	BSS075041G

TG Collet Straight Shank



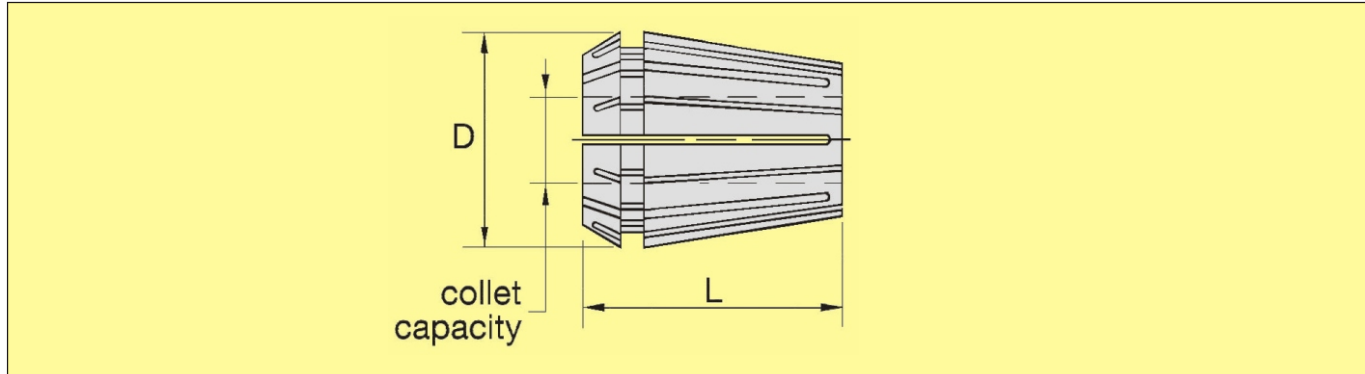
- Tremendous Grip, Through the tool holder coolant capability.
- Order Example – SS125TG075850

Catalogue No	Collet Series	Collet Cap Min.-Max.	D	D2	L	LS	L9	V	Wt. Lbs	Locknut	Wrench	Stop Screw
SS125TG075850	75TG	1/16-3/4	1.25	2.09	8.50	6.00	2.06	3.56	2.28	NPA075	OEW188	BSS081041G
SS150TG075775	75TG	1/16-3/4	1.50	2.09	7.75	6.02	2.06	5.00	2.98	NPA075	OEW188	BSS081041G
SS150TG100925	100TG	3/32-1	1.50	2.44	9.25	6.00	2.63	5.93	3.51	NPA100	OEW225	BSS112041G
SS175TG100819	100TG	3/32-1	1.75	2.44	8.19	6.02	2.63	4.87	4.41	NPA100	OEW225	BSS112041G
SS200TG100819	100TG	3/32-1	2.00	2.44	8.19	6.02	2.63	4.87	5.39	NPA100	OEW225	BSS112041G

ER-Collet

DIN 6499 Class II

ER Series Collets – Metric



Manufactured to DIN 6499, Accuracy to-DIN 6499 Class II, Wide clamping range, Max.Collapse =1mm

Order Example – 16ER010M

Bonded Collets are available on request. Lock Nuts to be ordered separately along with Bonded Collets, Max.Collapse =0.13mm, Suitable for Coolant pressure upto-70 bar.

Order Example – 16ER010MB

Collet Capacity Max - Min	ER-16 D=17 L=27.5 Catalogue No	ER-20 D=21 L=31.5 Catalogue No	ER-25 D=26 L=34 Catalogue No	ER-32 D=33 L=40 Catalogue No	ER-40 D=41 L= 46 Catalogue No
1.0 – 0.5	16ER010M	20ER010M			
1.5 – 1.0	16ER015M				
2.0 – 1.0	16ER020M	20ER020M	25ER020M		
2.5 – 1.5	16ER025M				
3.0 – 2.0	16ER030M	20ER030M	25ER030M	32ER030M	
3.5 – 2.5	16ER035M				
4.0 – 3.0	16ER040M	20ER040M	25ER040M	32ER040M	40ER040M
4.5 – 3.5	16ER045M				
5.0 – 4.0	16ER050M	20ER050M	25ER050M	32ER050M	40ER050M
5.5 – 4.5	16ER055M				
6.0 – 5.0	16ER060M	20ER060M	25ER060M	32ER060M	40ER060M
6.5 – 5.5	16ER065M				
7.0 – 6.0	16ER070M	20ER070M	25ER070M	32ER070M	40ER070M
7.5 – 6.5	16ER075M				
8.0 – 7.0	16ER080M	20ER080M	25ER080M	32ER080M	40ER080M
8.5 – 7.5	16ER085M				
9.0 – 8.0	16ER090M	20ER090M	25ER090M	32ER090M	40ER090M
9.5 – 8.5	16ER095M				
10.0 – 9.0	16ER100M	20ER100M	25ER100M	32ER100M	40ER100M
11.0 – 10.0		20ER110M	25ER110M	32ER110M	40ER110M
12.0 – 11.0		20ER120M	25ER120M	32ER120M	40ER120M
13.0 – 12.0		20ER130M	25ER130M	32ER130M	40ER130M
14.0 – 13.0			25ER140M	32ER140M	40ER140M
15.0 – 14.0			25ER150M	32ER150M	40ER150M
16.0 – 15.0			25ER160M	32ER160M	40ER160M
17.0 – 16.0				32ER170M	40ER170M
18.0 – 17.0				32ER180M	40ER180M
19.0 – 18.0				32ER190M	40ER190M
20.0 – 19.0				32ER200M	40ER200M
21.0 – 20.0					40ER210M
22.0 – 21.0					40ER220M
23.0 – 22.0					40ER230M
24.0 – 23.0					40ER240M
25.0 – 24.0					40ER250M
26.0 – 25.0					40ER260M