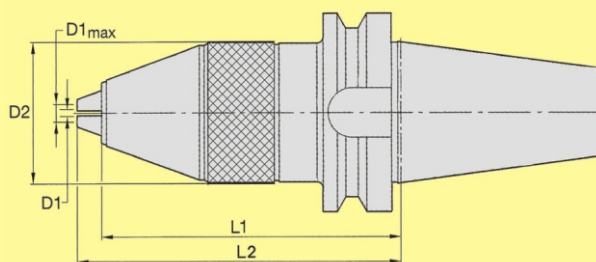


BT40 Shank Tools

MAS 403, JIS B 6339

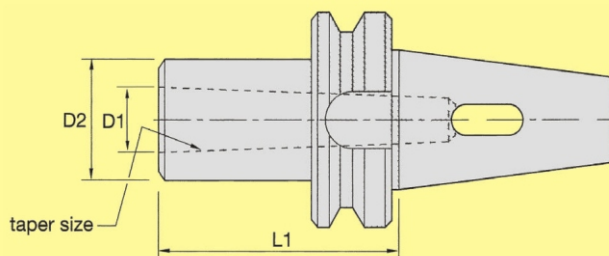
Drill Chucks



- 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



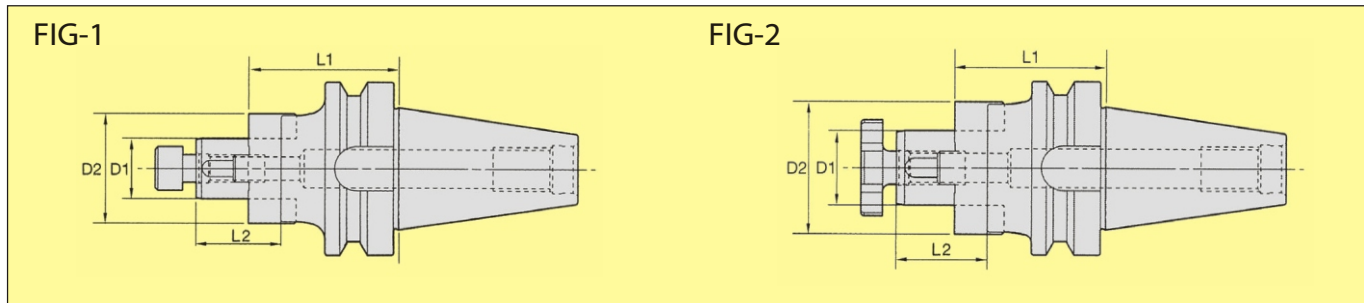
- Balance by-design, No through coolant capability, Form-AD
- Recommended for tools with a morse taper and tang
- Order Example – BT40MT1050M

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

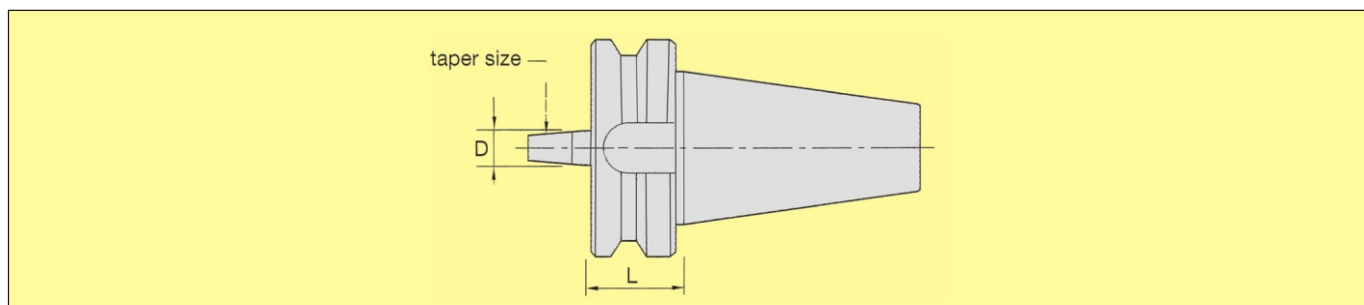
Combi Shell Mill Adapters – Metric



- Through the tool holder coolant capability
- Order Example – BT40CS16055M

Catalogue No	FIG	D1	D2	L1	L2	Wt.Kg.	LockScrew	Wrench	DriveRing	Drive Key
BT40CS16055M	1	16	32	55	27	1.2	BMS1294	6 mm	BCDR16M	BCDK16M
BT40CS16100M	1	16	32	100	27	1.5	BMS1294	6 mm	BCDR16M	BCDK16M
BT40CS22055M	1	22	40	55	31	1.3	BMS1234	8 mm	BCDR22M	BCDK22M
BT40CS22150M	1	22	40	150	31	1.6	BMS1234	8 mm	BCDR22M	BCDK22M
BT40CS27055M	2	27	48	55	33	1.5	BKLS27MPKG	BSMW27M	BCDR27M	BCDK27M
BT40CS27150M	2	27	48	150	33	2.8	BKLS27MPKG	BSMW27M	BCDR27M	BCDK27M
BT40CS32060M	2	32	58	60	38	1.9	BKLS32MPKG	BSMW32M	BCDR32M	BCDK32M
BT40CS32150M	2	32	70	150	38	3.6	BKLS32MPKG	BSMW32M	BCDR32M	BCDK32M

Jacobs Taper Adapters



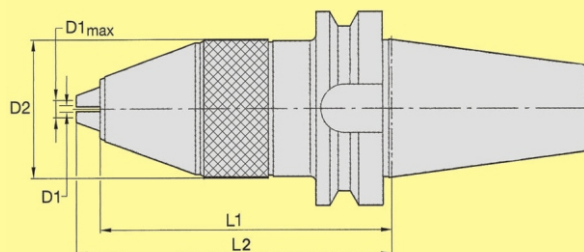
- Balance by-design
- Recommended for tools with a Jacobs internal taper.
- Order Example – BT40JT33045M
- No through-coolant capability.

Catalogue No	Taper Size	D	L	Wt.Kg
BT40JT33045M	33	15.88	45	1.12

BT50 Shank Tools

MAS 403, JIS B 6339

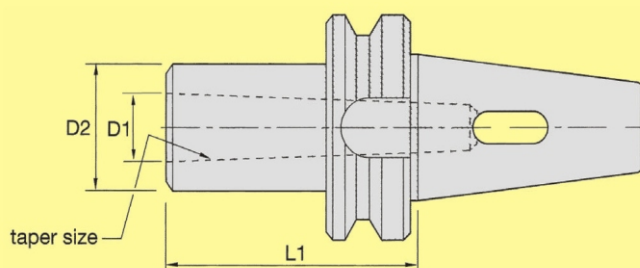
Drill Chucks



- Balance by-design,
- Order Example – BT50DC13110M

Catalogue No	D1Min.-Max	D2	L1	L2	Wt.Kg	Wrench
BT50DC13110M	1 - 13	50.5	110.40	122.50	4.40	13S

Morse Taper Adapters



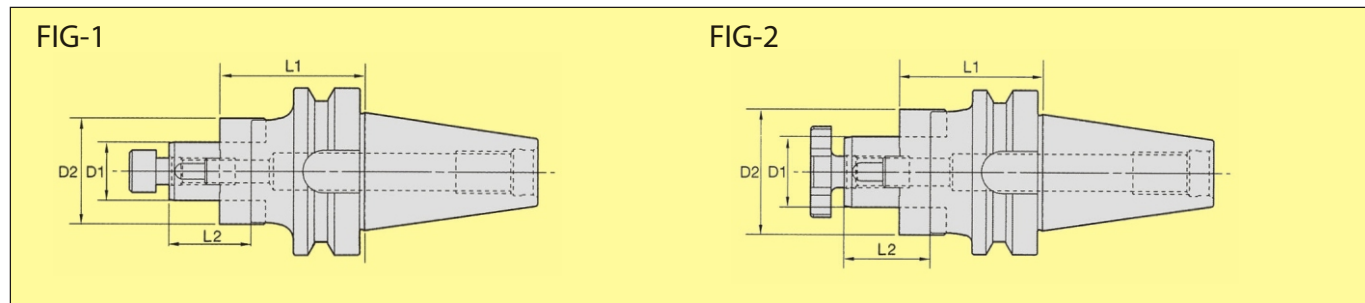
- Balance by-design, No through coolant capability, Form-AD
- Recommended for tools with a morse taper and tang
- Order Example – BT50MT1045M

Catalogue No	Taper Size	D1	D2	L1	Wt.Kg
BT50MT5105M	5	44.40	70	105	4.5
BT50MT1045M	1	12.10	25	45	1.8
BT50MT2060M	2	17.80	32	60	3.2
BT50MT3065M	3	23.80	40	65	3.2
BT50MT4095M	4	31.30	48	95	3.5

BT50 Shank Tools

MAS 403, JIS B 6339

Combi Shell Mill Adapters

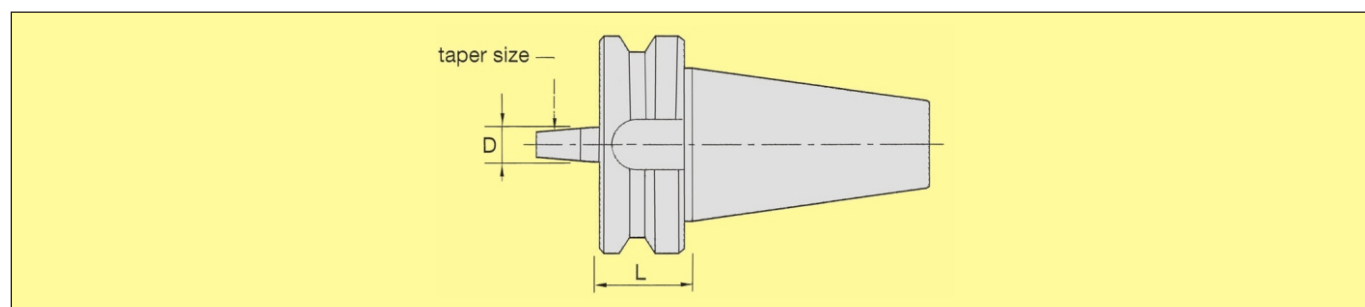


- Balanced by Design, Through tool holder coolant capability-form AD
- Order Example – BT50CS16070M

Combi Shell Mill Adapters – Metric

Catalogue No	FIG	D1	D2	L1	L2	Wt.Kg.	Lock Screw	Wrench	Drive Ring	Drive Key
BT50CS16070M	1	16	32	70	27	4.0	BMS1294	6 mm	BCDR16M	BCDK16M
BT50CS16150M	1	16	32	150	27	4.5	BMS1294	6 mm	BCDR16M	BCDK16M
BT50CS22070M	1	22	40	70	31	4.2	BMS1234	8 mm	BCDR22M	BCDK22M
BT50CS22150M	1	22	40	150	31	4.7	BMS1234	8 mm	BCDR22M	BCDK22M
BT50CS22200M	1	22	40	200	31	5.3	BMS1234	8 mm	BCDR22M	BCDK22M
BT50CS27070M	2	27	48	70	33	4.2	BKLS27M	BSMW27M	BCDR27M	BCDK27M
BT50CS27150M	2	27	48	150	33	5.0	BKLS27M	BSMW27M	BCDR27M	BCDK27M
BT50CS32070M	2	32	58	70	38	4.5	BKLS32M	BSMW32M	BCDR32M	BCDK32M
BT50CS32150M	2	32	58	150	38	5.8	BKLS32M	BSMW32M	BCDR32M	BCDK32M
BT50CS40070M	2	40	70	70	41	5.0	BKLS40M	BSMW40M	BCDR40M	BCDK40M
BT50CS40150M	2	40	70	150	41	7.3	BKLS40M	BSMW40M	BCDR40M	BCDK40M
BT50CS40200M	2	40	70	200	41	8.9	BKLS40M	BSMW40M	BCDR40M	BCDK40M
BT50CS50075M	2	50	90	75	46	7.9	BKLS50M	BSMW50M	BCDR50M	BCDK50M
BT50CS50150M	2	50	90	150	46	9.2	BKLS50M	BSMW50M	BCDR50M	BCDK50M

Jacobs Taper Adapters



- Balance by-design, No through-coolant capability.
- Recommended for tools with a Jacobs internal taper.
- Order Example – BT50JT33041M

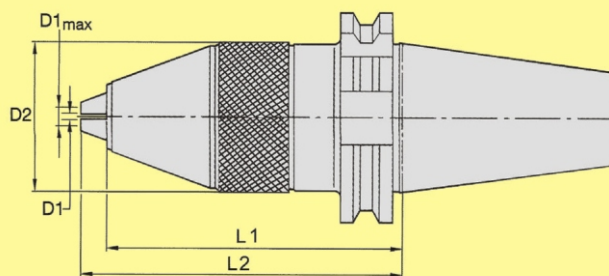
JT-BT Form-A

Catalogue No	Taper Size	D	L	Wt.Kg
BT50JT33041M	33	15.85	41.0	3.70

DV 40 Shank Tools

DIN 69871

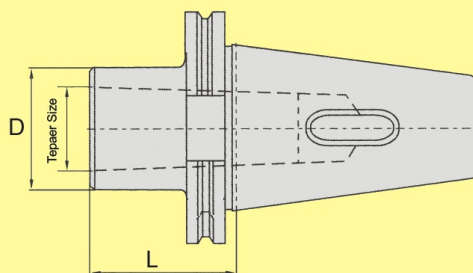
Drill Chucks



- Balance by-design, No through coolant capability, Form-AD
- Order Example – DV40DC13096M

Catalogue No	D1Min.-Max	D2	L1	L2	Wt.kg	Wrench
DV40DC13096M	1 - 13	50.5	84.5	97	1.60	135

Morse Taper Adapters



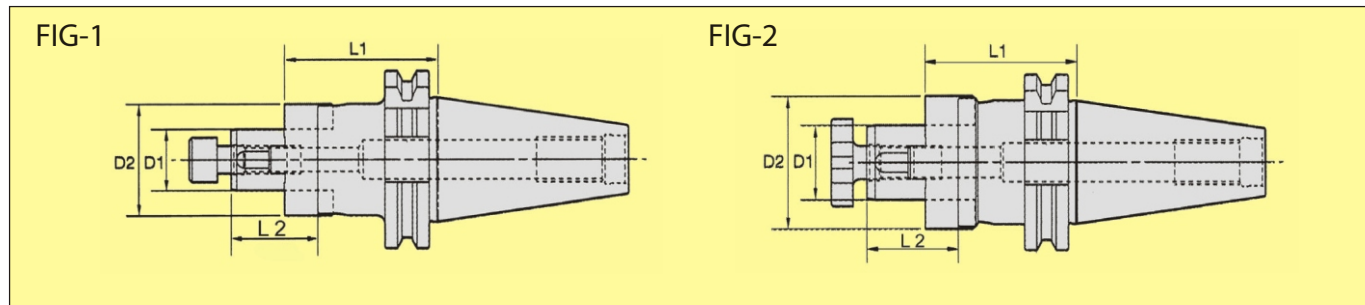
- Balance by-design, No through coolant capability, Form-AD
- Recommended for tools with a morse taper and tang
- Order Example – DV40MT1050M

Catalogue No	Taper Size	D	L	Wt.Kg
DV40MT1050M	1	25	50	1.49
DV40MT2050M	2	32	50	1.61
DV40MT3070M	3	40	70	1.92
DV40MT4095M	4	48	95	1.62

DV 40 Shank Tools

DIN 69871

Combi Shell Mill Adapters

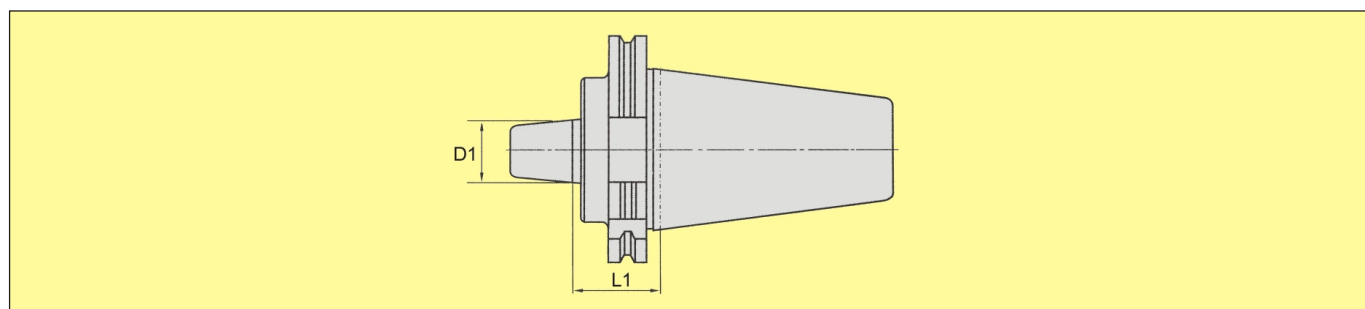


- Through the tool holder coolant capability
- Order Example – DV40CS16055M

Combi Shell Mill Adapters – Metric

Catalogue No	FIG	D1	D2	L1	L2	Wt. Kg.	Lock Screw	Wrench	Drive Ring	Key
DV40CS16055M	1	16	32	55	27	1.1	BMS1294	6 mm	BCDR16M	BCDK16M
DV40CS16100M	1	16	32	100	27	1.3	BMS1294	6 mm	BCDR16M	BCDK16M
DV40CS22055M	1	22	40	55	31	1.2	BMS1234	8 mm	BCDR22M	BCDK22M
DV40CS22100M	1	22	40	100	31	1.5	BMS1234	8 mm	BCDR22M	BCDK22M
DV40CS27055M	2	27	48	55	33	1.3	BKLS27M	BSMW27M	BCDR27M	BCDK27M
DV40CS27100M	2	27	48	100	33	1.8	BKLS27M	BSMW27M	BCDR27M	BCDK27M
DV40CS27150M	2	27	48	150	33	2.8	BKLS27M	BSMW27M	BCDR27M	BCDK27M
DV40CS32060M	2	32	58	60	38	1.8	BKLS32M	BSMW32M	BCDR32M	BCDK32M
DV40CS32100M	2	32	58	100	38	2.6	BKLS32M	BSMW32M	BCDR32M	BCDK32M
DV40CS40060M	2	40	70	60	41	2.5	BKLS40M	BSMW40M	BCDR40M	BCDK40M

Jacobs Taper Adapters



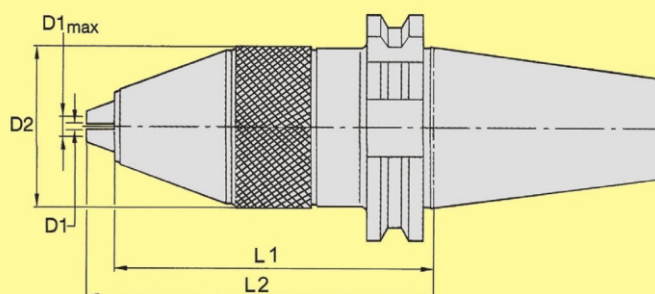
- Balance by-design, Recommended for tools with a Jacobs internal taper, No through-coolant capability.
- Order Example – DV40JT33045M

Catalogue No	Taper Size	D1	L1	Wt. Kg.
DV40JT33045M	33	15.88	45	1.32

DV 50 Shank Tools

DIN 69871

Drill Chucks

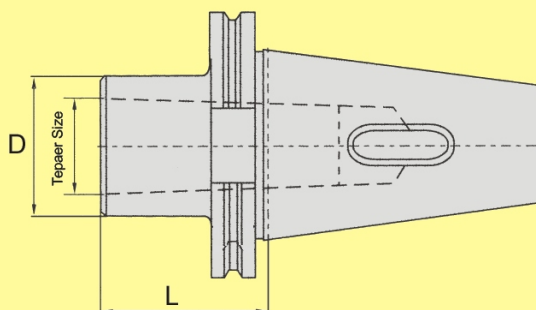


- Balance by-design, No through coolant capability
- Order Example – DV50DC13090M

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



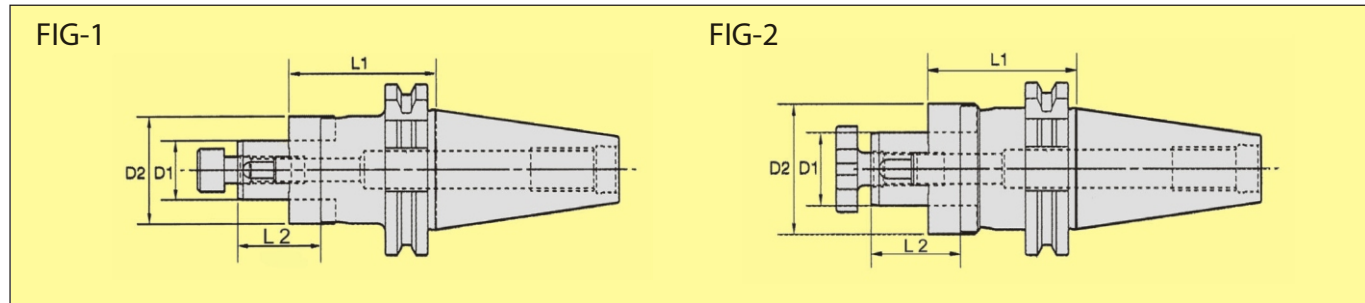
- Balance by-design, No through coolant capability
- Recommended for tools with a Morse taper and tang
- Order Example – DV50MT1050M

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

DV 50 Shank Tools

DIN 69871

Combi Shell Mill Adapters

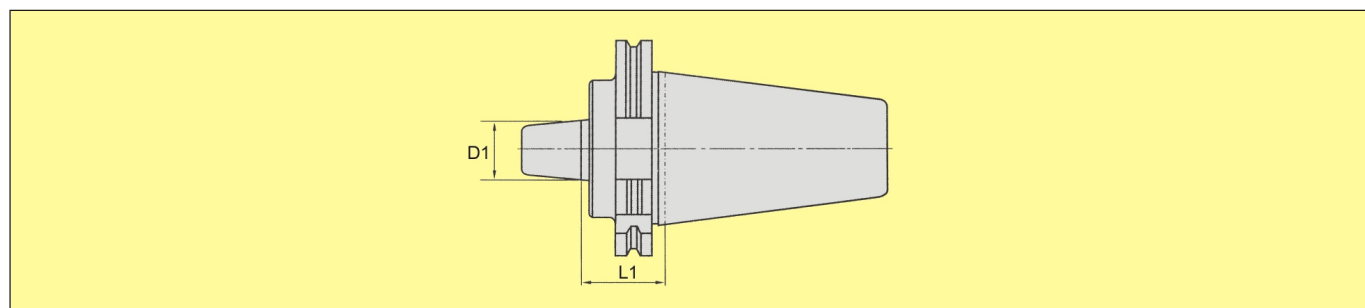


- Balanced by Design, Through the tool holder coolant capability
- Order Example – DV50CS16055M

Combi Shell Mill Adapters – Metric

Catalogue No	FIG	D1	D2	L1	L2	Wt. Kg.	Lock Screw	Wrench	Drive Ring	Drive Key
DV50CS16055M	1	16	32	55	27	2.78	BMS1294	6 mm	BCDR16M	BCDK16M
DV50CS22055M	1	22	40	55	31	2.93	BMS1234	8 mm	BCDR22M	BCDK22M
DV50CS22100M	1	22	40	100	31	3.36	BMS1234	8 mm	BCDR22M	BCDK22M
DV50CS22150M	1	22	40	150	31	3.83	BMS1234	8 mm	BCDR22M	BCDK22M
DV50CS27055M	2	27	48	55	33	3.14	BKLS27M	BSMW27M	BCDR27M	BCDK27M
DV50CS27100M	2	27	48	100	33	3.75	BKLS27M	BSMW27M	BCDR27M	BCDK27M
DV50CS27150M	2	27	48	150	33	4.43	BKLS27M	BSMW27M	BCDR27M	BCDK27M
DV50CS32055M	2	32	58	55	38	3.45	BKLS32M	BSMW32M	BCDR32M	BCDK32M
DV50CS32100M	2	32	58	100	38	4.32	BKLS32M	BSMW32M	BCDR32M	BCDK32M
DV50CS32150M	2	32	58	150	38	5.30	BKLS32M	BSMW32M	BCDR32M	BCDK32M
DV50CS40055M	2	40	70	55	41	3.92	BKLS40M	BSMW40M	BCDR40M	BCDK40M
DV50CS40100M	2	40	70	100	41	5.19	BKLS40M	BSMW40M	BCDR40M	BCDK40M
DV50CS40150M	2	40	70	150	41	6.60	BKLS40M	BSMW40M	BCDR40M	BCDK40M
DV50CS50075M	2	50	90	75	46	7.20	BKLS50M	BSMW50M	BCDR50M	BCDK50M
DV50CS50150M	2	50	90	150	46	8.50	BKLS50M	BSMW50M	BCDR50M	BCDK50M

Jacobs Taper Adapters



- Balance by-design, Recommended for tools with a Jacobs internal taper, No through-coolant capability.
- Order Example – DV50JT33054M

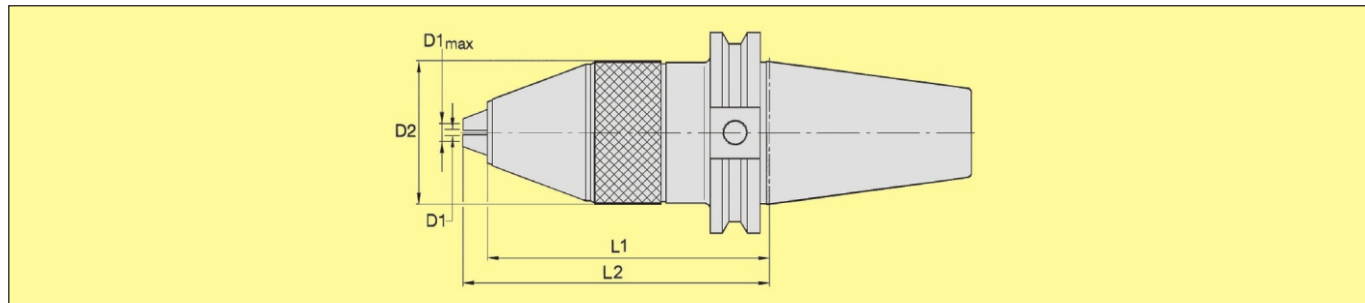
JT-DV Form-A

Catalogue No	Taper Size	D1	L1	Wt.Kg.
DV50JT33054M	33	15.88	54	1.32

CV 40 Shank Tools

Caterpillar (inch) CV ANSI B5.50 / ISO 7388

Drill Chucks

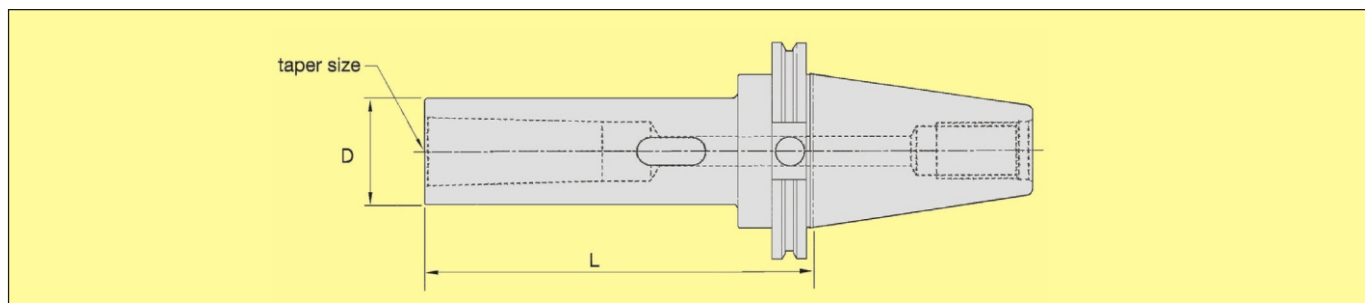


- Balance by-design, No through coolant capability.
- Order Example – CV40DC13M421

MT – CV Form-A

Catalogue No	D1Min.-Max	D2	L1	L2	Wt.Lbs	Wrench
CV40DC13M421	0.39 – 0.512	1.89	4.04	4.50	3.84	13S.

Morse Taper Adapters



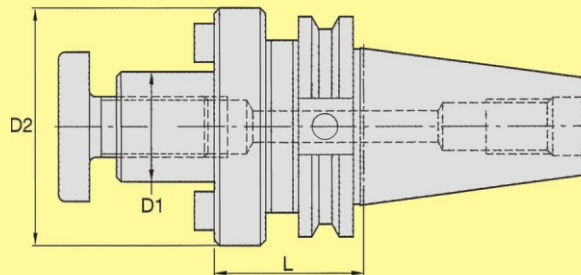
- Balance by-design, No through coolant capability
- Recommended for tools with a morse taper and tang
- Order Example – CV40MT1175

Catalogue No	Taper Size	D	L	Wt.Lbs
CV40MT1175	1	0.980	1.750	2.21
CV40MT2244	2	1.260	2.440	2.30
CV40MT3300	3	1.570	3.000	2.49
CV40MT4388	4	1.890	3.880	2.86

CV 40 Shank Tools

CAaterpillar (inch) CV ANSI B5.50 / ISO 7388

Shell Mill Adapters

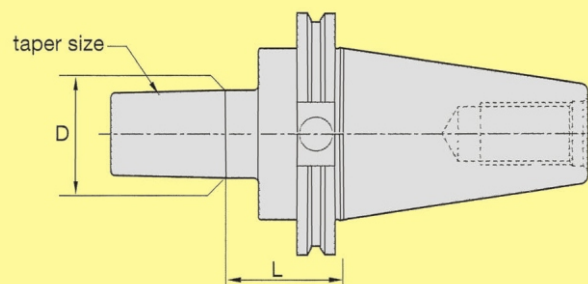


- Balanced by Design, Through the tool holder coolant capability
- Order Example – CV40SM050138

Shell Mill Adapters – Inch

Catalogue No	D1	D2	L	Wt Lbs	Lock Screw	Allen Key	Drive Key
CV40SM050138	1/2	1.75	1.38	2.27	BKLS05	3/16	BKDK04
CV40SM050350	1/2	1.44	3.50	3.12	BKLS05	3/16	BKDK04
CV40SM075138	3/4	1.75	1.38	2.21	BKLS07	1/4	BKDK05
CV40SM075350	3/4	1.75	3.50	3.80	BKLS07	1/4	BKDK05
CV40SM075600	3/4	1.75	6.00	5.40	BKLS07	1/4	BKDK05
CV40ZSM100100	1	2.19	1.00	2.80	BKLS10	5/16	BKDK06
CV40SM100206	1	2.19	2.06	3.10	BKLS10	5/16	BKDK06
CV40SM100400	1	2.19	4.00	4.30	BKLS10	5/16	BKDK06
CV40SM100600	1	2.19	6.00	5.90	BKLS10	5/16	BKDK06
CV40SM125212	1 1/4	2.75	2.12	4.00	BKLS12	5/16	BKDK08
CV40SM125400	1 1/4	2.75	4.00	5.00	BKLS12	5/16	BKDK08
CV40SM150241	1 1/2	3.38	2.41	5.01	BKLS15	3/8	BKDK10
CV40SM150400	1 1/2	3.38	4.00	6.15	BKLS15	3/8	BKDK10

Jacobs Taper Adapters



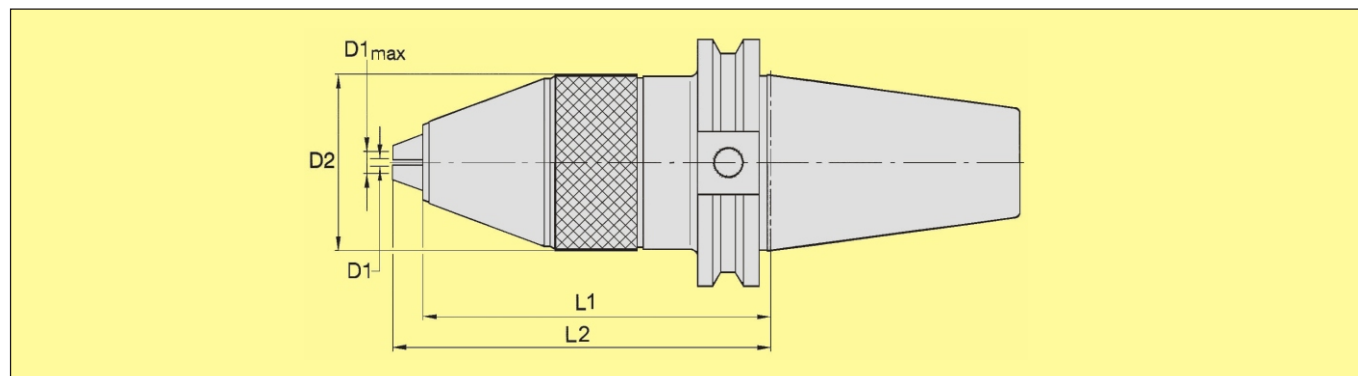
- Balance by-design, No through-coolant capability.
- Recommended for tools with a Jacobs internal taper.
- Order Example – CV40JT2244

Catalogue No	Taper Size	D	L	Wt. Lbs
CV40JT2244	2	0.560	2.440	2.33
CV40JT3278	3	0.812	2.780	2.45
CV40JT33256	33	0.625	2.560	2.32

CV 50 Shank Tools

Caterpillar (inch) CV ANSI B5.50 / ISO 7388

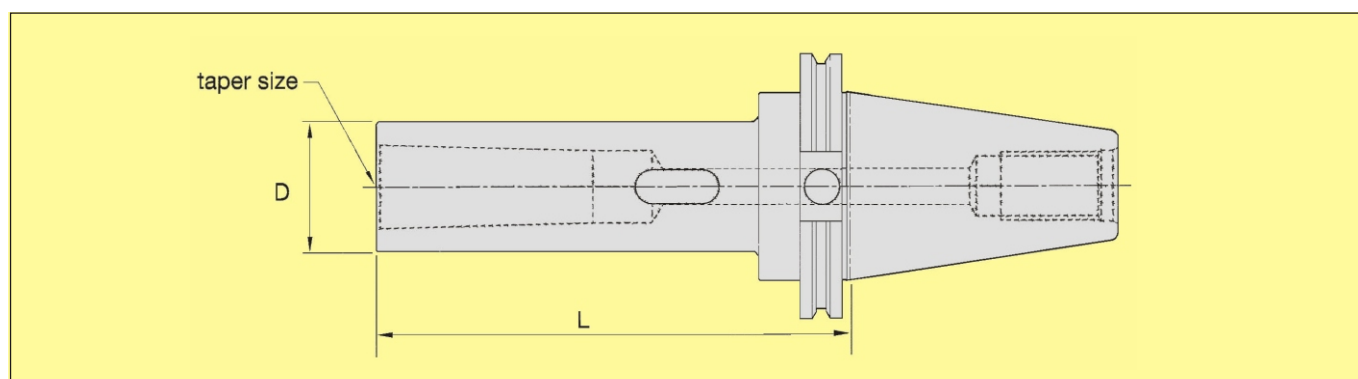
Drill Chucks



- Balance by-design, No through coolant capability
- Order Example – CV50DC13M421

Catalogue No	D1Min.-Max	D2	L1	L2	Wt.Lbs	Wrench
CV50DC13M421	0.39 – 0.512	1.98	4.04	4.50	7.85	13S

Morse Taper Adapters



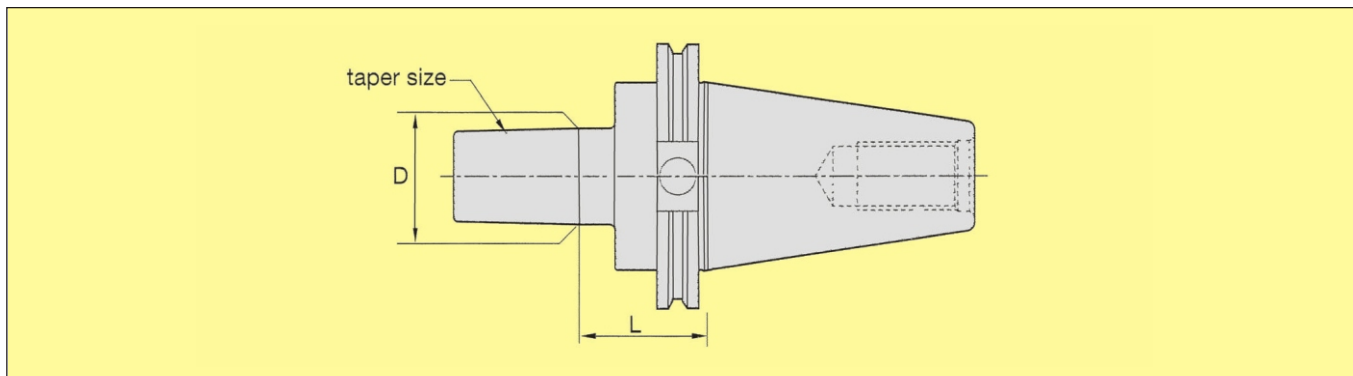
- Balance by-design, No through coolant capability
- Recommended for tools with a morse

Catalogue No	Taper Size	D	L	Wt.Lbs
CV50MT1150	1	2.750	1.500	6.77
CV50MT2200	2	2.750	2.000	7.43
CV50MT3250	3	1.570	2.500	6.73
CV50MT4388	4	1.890	3.380	6.90
CV50MT5375	5	2.750	3.750	7.55

CV 50 Shank Tools

Caterpillar (inch) CV ANSI B5.50 / ISO 7388

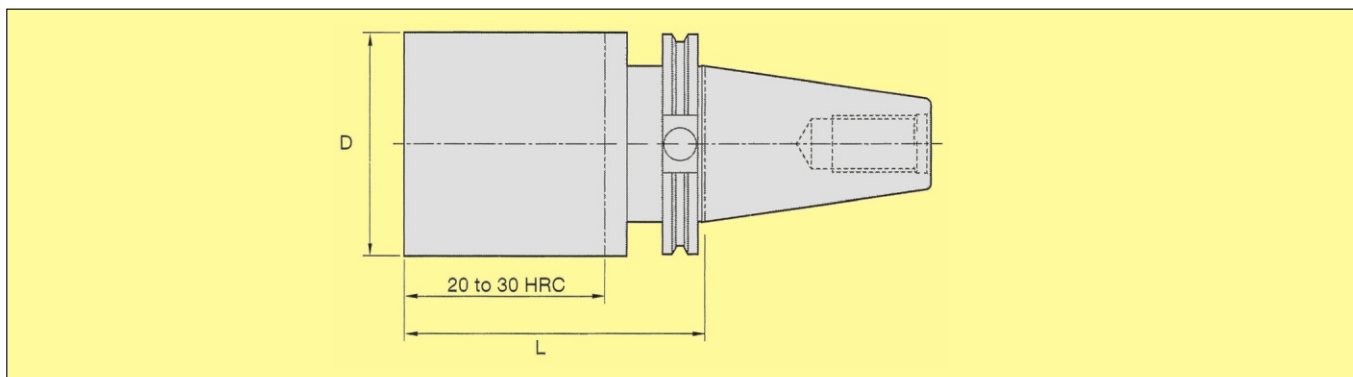
Jacobs Taper Adapters



- Balance by-design, No through-coolant capability. Recommended for tools with a Jacobs internal taper.
- Order Example – CV50JT3268

Catalogue No	Taper Size	D	L	Wt.Lbs
CV50JT3268	3	0.812	2.68	6.97

Boring Bar Blank



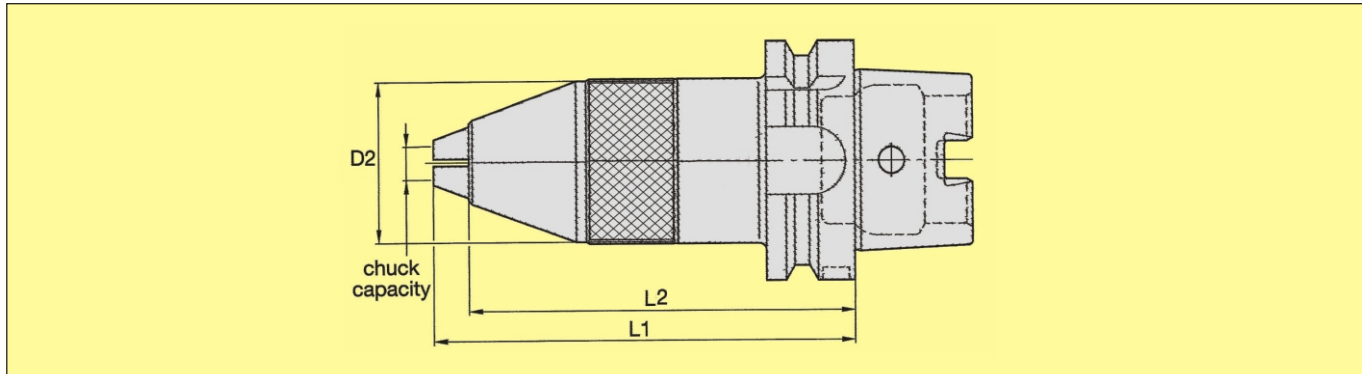
- Balance By Design, Machinable front end 20-30 HRC, 1"- 8 UNC Draw Bar Thread.
- Order Example – CV50BB400120

Catalogue No	D	L	Wt.Lbs
CV50BB400120	4,00"	12,00"	44.56
CV50BB400600	4,00"	6,00"	23.23
CV50BB600120	6,00"	12,00"	91.40
CV50BB600600	6,00"	6,00"	43.50

HSK 50A Shank Tools

DIN 69893 part 1, form A

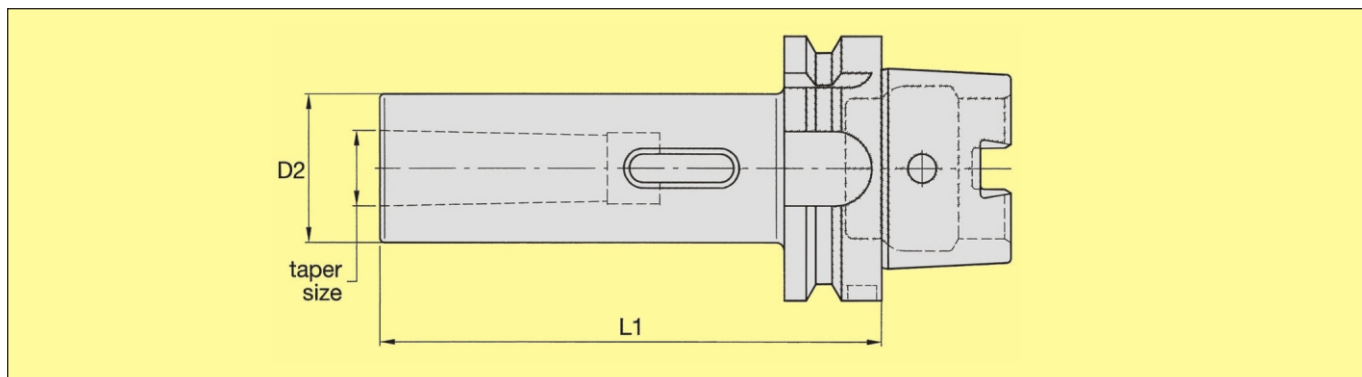
Drill Chucks



- Balance by-design,
- Recommended for light drilling
- No through coolant capability
- Order Example – HSK50ADC13100M

Catalogue No	D1Min.-Max	D2	L1	L2	Wt.Kg.	Wrench
HSK50ADC13100M	1 - 13	43	108	100	1.30	135

Morse Taper Adapters



- Balance by-design,
- Recommended for tools with a morse taper and tang,
- No through coolant capability
- Order Example – HSK50AMT1100M

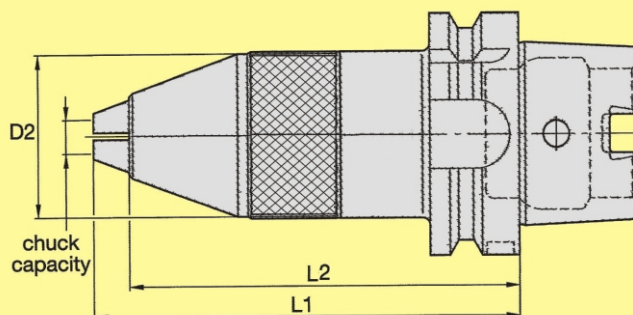
MT – HSK Form-A

Catalogue No	Taper Size	D2	L1	Wt.Kg
HSK50AMT1100M	1	25	100	1.50

HSK 63A Shank Tools

DIN 69893 part 1, form A

Drill Chucks

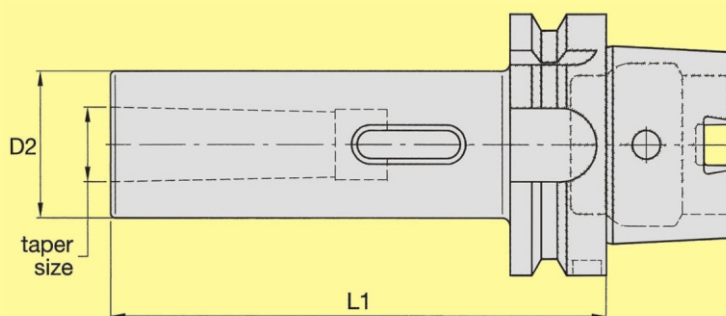


- Recommended for light drilling
- Through the tool holder coolant capability / along cutting tool shank.
- Order Example – HSK63ADC13117M

DC-HSK Form-A

Catalogue No	D1Min.-Max	D2	L1	L2	Wt.Kg.	Wrench
HSK63ADC13117M	1 - 13	50	126	117	2.00	135

Morse Taper Adapters



- Balance by-design, No through coolant capability
- Recommended for tools with a morse taper and tang
- Order Example – HSK63AMT1100M

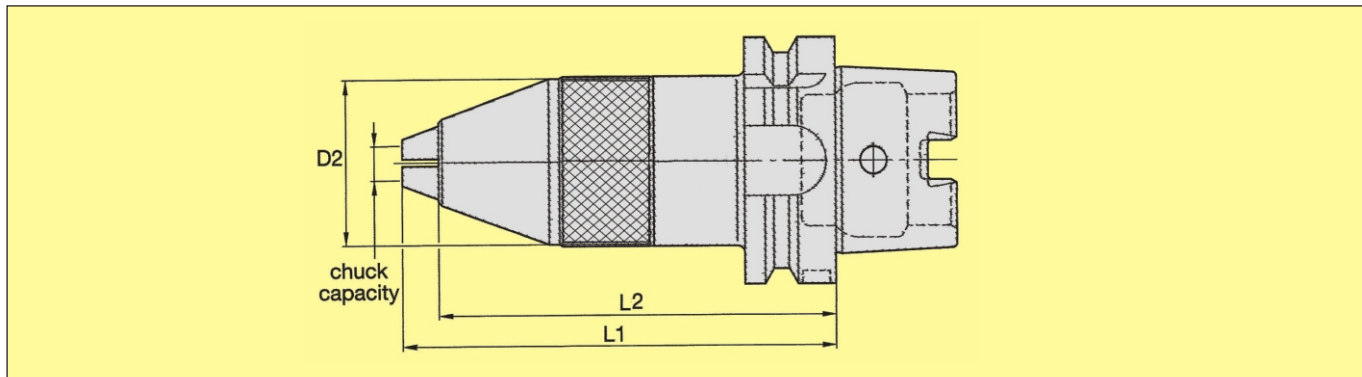
MT – HSK Form-A

Catalogue No	Taper Size	D2	L1	Wt.Kg
HSK63AMT1100M	1	25	100	0.72
HSK63AMT2120M	2	32	120	0.94
HSK63AMT3140M	3	40	140	1.29
HSK63AMT4160M	4	48	160	1.72

HSK100A Shank Tools

DIN 69893 part 1, form A.

Drill Chucks

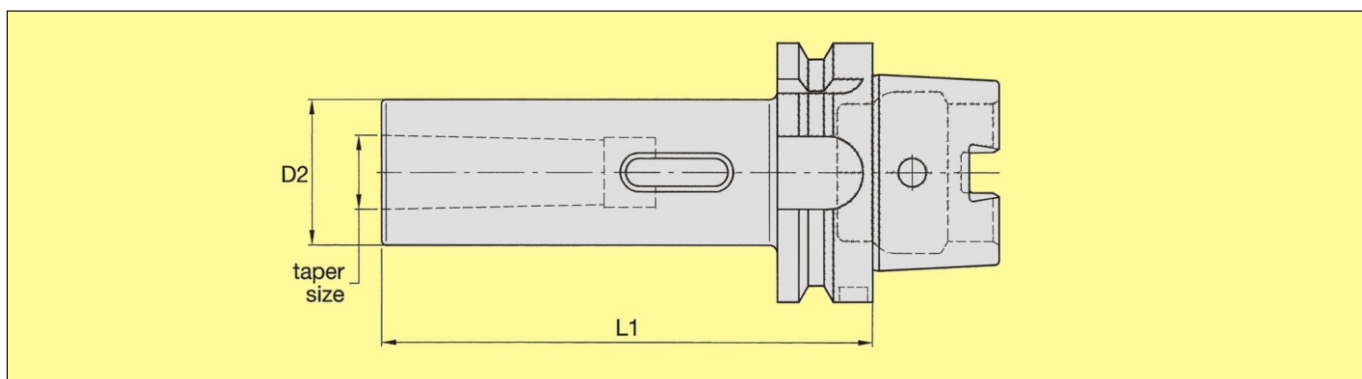


- Recommended for light drilling, For both left hand & right hand cutting application,
- Through the tool holder coolant capability / along cutting tool shank.
- Order Example – HSK100ADC13125M

DC-HSK Form-A

Catalogue No	D1Min.-Max	D2	L1	L2	Wt.Kg.	Wrench
HSK100ADC13125M	1 - 13	50	134	125	3.00	13S

Morse Taper Adapters



- Balance by-design,
- Recommended for tools with a morse taper and tang,
- No through coolant capability
- Order Example – HSK100AMT2120M

MT – HSK Form-A

Catalogue No	Taper Size	D2	L1	Wt.Kg
HSK100AMT2120M	2	32	120	1.89
HSK100AMT3150M	3	40	150	2.31
HSK100AMT4170M	4	48	170	2.78
HSK100AMT5200M	5	70	200	4.92