



TOOLING SYSTEMS

TOOLING SYSTEMS



BTKV and CVKV Shank Tools

BTKV40	C2-C19
BTKV50	C20-C37
CVKV40	C38-C51
CVKV50	C52-C67



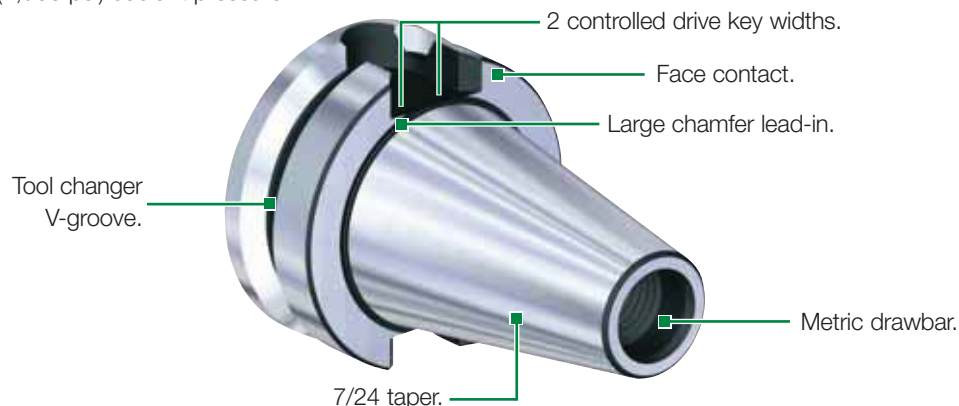
Erickson™ Taper Face Contact Shank Tooling System • BTKV40 Series

Erickson Taper Face BT Contact Taper Tooling is manufactured from premium materials and to the latest JIS B 6339 specification standard with an AT3 7/24 Taper per ISO-1974. Controlled, increased flange thickness to the rear of the flange gains face contact between spindle and holder. The BTKV40 tools are prebalanced to a high specification that will perform effectively up to 20,000 RPM. For any applications higher than 20,000 RPM, WIDIA™ recommends that the complete toolholder assembly (toolholder, retention knobs, collets, hardware, and cutting tools) be balanced as one identity.



BTKV40

- JIS B 6339 7/24 taper.
- Standard M16 metric drawbar thread.
- High axial repeatability due to face contact.
- High radial positioning due to controlled, tighter drive key widths.
- All tools set to form AD coolant specification. Many can be converted to form B style.
- Maximum 20,000 RPM.
- Maximum 100 bar (1,500 psi) coolant pressure.



How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



BTKV

Shank
Style

JIS B6339
Face Contact

40

Shank
Taper
Size

40 = 40
50 = 50

B

Special Feature
(optional)

B =
DIN form B coolant feature,
tool shipped to AD
specification
(design allows conversion
to form B style)

(blank) =
(no "B" or "Z") — tool built
to form A/AD coolant style

HPV =
High performance and
balanceable

TD =
Tunable

TG

Toolholder
Style

50

Toolholder
Size

100

Tool
Length

(Gage line
on taper to
front of tool)

inch
xxx = x.xx

M

Identification
Value

M =
Tool built to metric values and has
metric retention thread

BB = Bar blank
EM = End mill adapter
ER = DIN 6499 single-angle collet chuck
KM = KM™ adapter
SM2C = Shell mill adapter with coolant
and small diameter
SMC = Shell mill adapter with coolant
TG = Tremendous Grip single-angle
collet chuck
TT = Shrink Fit thermo toolholder
TTHT = Shrink Fit thermo toolholder — high torque

TG =
Collet series xx (50), xxx (100)

EM =
I.D. size: metric — xx = xx, (20);
inch — xxx = x.xx, (075)

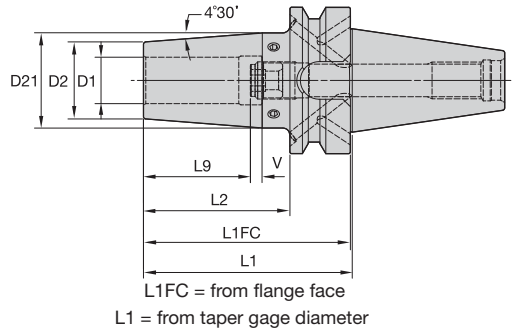
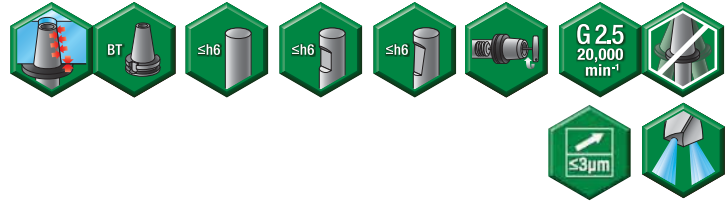
SM =
O.D. size: metric — xx = xx, (20);
inch — xxx = x.xx, (075)

BTKV40 Shank Tools

Shrink Fit Toolholders General Purpose (GP)



- Balanceable — fine tune with optional M6 set screws.
- Suitable for carbide and HSS cutting tools (requirements below).



Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
6	h6	0,000/-0,008
8 & 10	h6	0,000/-0,009
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

■ TT GP HPV MM-BTKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	kg
3854807	BTKV40BHPVTT06090M	6	21	27	90	89,0	63,0	26	10	TTSS05014M	2,5mm	1,17
3854808	BTKV40BHPVTT08090M	8	21	27	90	89,0	63,0	26	10	TTSS06014M	3mm	1,16
3854809	BTKV40BHPVTT10090M	10	24	32	90	89,0	63,0	31	10	TTSS08014M	4mm	1,22
3854810	BTKV40BHPVTT12090M	12	24	32	90	89,0	63,0	36	10	TTSS10014M	5mm	1,21
3854811	BTKV40BHPVTT14090M	14	27	34	90	89,0	63,0	36	10	TTSS10014M	5mm	1,26
3854812	BTKV40BHPVTT16090M	16	27	34	90	89,0	63,0	39	10	TTSS12014M	6mm	1,24
3854823	BTKV40BHPVTT18090M	18	33	41	90	89,0	63,0	39	10	TTSS12014M	6mm	1,38
3854824	BTKV40BHPVTT20090M	20	33	41	90	89,0	63,0	41	10	TTSS16014M	8mm	1,35
3854825	BTKV40BHPVTT25100M	25	44	52	100	99,0	73,0	47	10	TTSS16014M	8mm	1,76
3854826	BTKV40BHPVTT32105M	32	44	53	105	104,0	78,0	51	10	TTSS16014M	8mm	1,67

(continued)

(TT GP HPV BTKV Form B/AD continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/4, 5/16, & 3/8	-.0001/- .0004
7/16, 1/2, & 5/8	.0000/- .0004
3/4, 7/8, 1, & 1-1/4	.0000/- .0005

■ TT HPV IN-BTKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	lbs
3861327	BTKV40BHPVTT025350	1/4	.83	1.06	3.50	3.46	2.44	1.02	.39	TTSS05014M	2,5mm	2.56
3861328	BTKV40BHPVTT031350	5/16	.83	1.06	3.50	3.46	2.44	1.02	.39	TTSS06014M	3mm	2.55
3861329	BTKV40BHPVTT038350	3/8	.94	1.26	3.50	3.46	2.44	1.22	.39	TTSS08014M	4mm	2.68
3861330	BTKV40BHPVTT044350	7/16	.94	1.26	3.50	3.46	2.44	1.42	.39	TTSS10014M	5mm	2.66
3861331	BTKV40BHPVTT050350	1/2	.94	1.26	3.50	3.46	2.44	1.42	.39	TTSS10014M	5mm	2.64
3861332	BTKV40BHPVTT062350	5/8	1.06	1.33	3.50	3.46	2.44	1.54	.39	TTSS12014M	6mm	2.71
3861343	BTKV40BHPVTT075400	3/4	1.30	1.65	4.00	3.96	2.94	1.61	.39	TTSS16014M	8mm	3.26
3861344	BTKV40BHPVTT088400	7/8	1.30	1.65	4.00	3.96	2.94	1.61	.39	TTSS16014M	8mm	3.18
3861345	BTKV40BHPVTT100400	1	1.73	2.06	4.00	3.96	2.94	1.85	.39	TTSS16014M	8mm	3.91
3861346	BTKV40BHPVTT125425	1 1/4	1.73	2.08	4.25	4.21	3.19	2.01	.39	TTSS16014M	8mm	3.81

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.

Shrink Fit technical section, see page K56.

Supplied with stop screw.

Adjusting stop screw gage, see page K59.

Optional M6~1.0P x 5mm lg fine-balancing screw set (10 pieces) is available. Order number is MS1276PKG and must be ordered separately.

For retention knobs, see page J33.

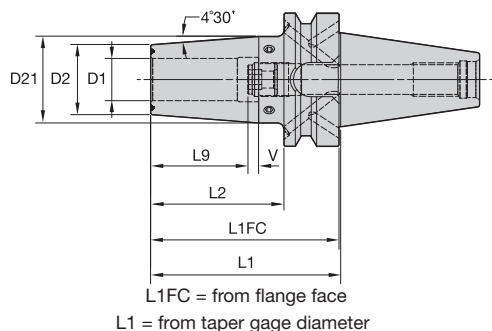
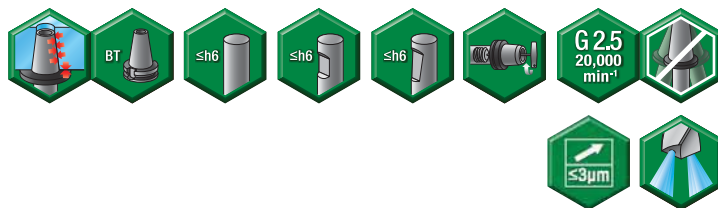
Form AD						
Form B				40	(2x) MS2221S	2,5mm
				50	(2x) MS1296S	3mm

BTKV40 Shank Tools

Shrink Fit Toolholders High Torque (HT)



- 30–50% higher clamping torque compared to GP line.
- Balanceable — fine tune with optional M6 set screws.
- Suitable for carbide only, designated by groove in front face (requirements below).
- 10 kW power or greater Shrink Fit device must be used.



Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

■ TT HT HPV MM-BTKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	kg
3854827	BTKV40BHPVTTHT12090M	12	24	32	90,0	89,0	63	36	10	TTSS10014M	5mm	1,21
3854828	BTKV40BHPVTTHT14090M	14	27	34	90,0	89,0	63	36	10	TTSS10014M	5mm	1,26
3854829	BTKV40BHPVTTHT16090M	16	27	34	90,0	89,0	63	39	10	TTSS12014M	6mm	1,24
3854830	BTKV40BHPVTTHT18090M	18	33	41	90,0	89,0	63	39	10	TTSS12014M	6mm	1,38
3854831	BTKV40BHPVTTHT20090M	20	33	41	90,0	89,0	63	41	10	TTSS16014M	8mm	1,35
3854832	BTKV40BHPVTTHT25100M	25	44	52	100,0	99,0	73	47	10	TTSS16014M	8mm	1,76
3854833	BTKV40BHPVTTHT32105M	32	44	53	105,0	104,0	78	51	10	TTSS16014M	8mm	1,67

(continued)

(TT HT HPV BTKV Form B/AD continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/2 & 5/8	.0000/- .0004
3/4, 7/8, 1, & 1-1/4	.0000/- .0005

■ TT HT HPV IN-BTKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	lbs
3861347	BTKV40BHPVTTHT050350	1/2	.94	1.26	3.50	3.46	2.44	1.42	.39	TTSS10014M	5mm	2.64
3861348	BTKV40BHPVTTHT062350	5/8	1.06	1.33	3.50	3.46	2.44	1.54	.39	TTSS12014M	6mm	2.71
3861349	BTKV40BHPVTTHT075400	3/4	1.30	1.65	4.00	3.96	2.94	1.61	.39	TTSS16014M	8mm	3.26
3861350	BTKV40BHPVTTHT088400	7/8	1.30	1.65	4.00	3.96	2.94	1.61	.39	TTSS16014M	8mm	3.17
3861351	BTKV40BHPVTTHT100400	1	1.73	2.06	4.00	3.96	2.94	1.85	.39	TTSS16014M	8mm	3.91
3861352	BTKV40BHPVTTHT125425	1 1/4	1.73	2.08	4.25	4.21	3.19	2.01	.39	TTSS16014M	8mm	3.81

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.

Shrink Fit technical section, see page K56.

Supplied with stop screw.

Adjusting stop screw gage, see page K59.

Optional M6~1.0P x 5mm lg fine-balancing screw set (10 pieces) is available. Order number is MS1276PKG and must be ordered separately.

For retention knobs, see page J33.

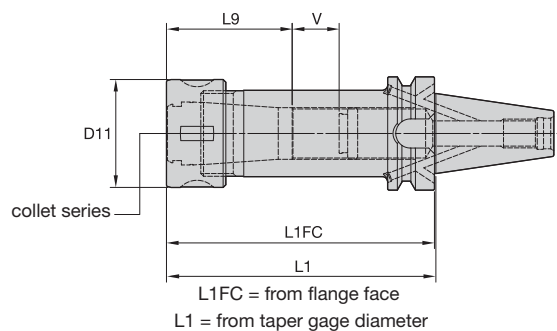
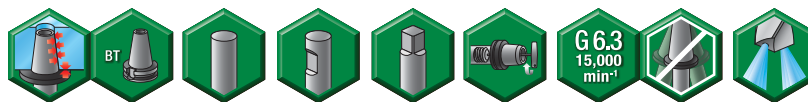
Form AD						
Form B				40	(2x) MS2221S	2,5mm
				50	(2x) MS1296S	3mm

BTKV40 Shank Tools

TG Single-Angle Collet Chucks



- Tremendous Grip (3:1 advantage).



TG collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
TG75	2,6	20,0	3/64	3/4
TG100	2,6	25,5	5/64	1
TG150	11,6	40,0	23/64	1 1/2

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■ TG Round-BTKV Form B/AD



order number	catalog number	collet series	D11	L1	L1FC	L9	V	locknut	wrench	Nm	stop screw	wrench size stop screw	kg
3856650	BTKV40BTG075070M	TG75	50	70,0	69,0	50	10	LNA075M	HSW45M	136	SS081041G	4mm & 5/32	1,24
3856651	BTKV40BTG100080M	TG100	60	80,0	79,0	64	10	LNA100M	HSW58M	203	SS112041G	4mm & 5/32	1,43
3856652	BTKV40BTG100100M	TG100	60	100,0	99,0	64	14	LNA100M	HSW58M	203	SS112041G	4mm & 5/32	1,71
3856663	BTKV40BTG100150M	TG100	60	150,0	149,0	64	64	LNA100M	HSW58M	203	SS112041G	4mm & 5/32	2,19
3856664	BTKV40BTG150110M	TG150	85	110,0	109,0	78	15	LNA150M	HSW80M	271	SS112041G	4mm & 5/32	2,40

NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.

Collet chuck technical section, see page K74.

Supplied with locknut and stop screw.

Locknut wrench must be ordered separately.

Interchangeable locknuts, coolant-style locknuts, and coolant disks are available and must be ordered separately; see page J6.

Stop screw coolant caps are available and must be ordered separately; see page J22.

Balanceable/interchangeable locknuts are available and must be ordered separately; see page J3.

TG standard straight-bore collets, see page I10.

TG tap collets, see page I10.

For retention knobs, see page J33.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm



WIN WITH WIDIA™



WIDIA™ M690 90° Shoulder Mill Series

M690 SD1204.. | M690 SD1506..

Strong and specially designed to streamline most milling operations, M690 Series 90° shoulder mills enable excellent shoulder finishes, enhanced chip evacuation, and optimal insert support.

- Sturdy tool design for maximum safety and productivity.
- Four cutting edges for economical and reliable machining.
- Superior shoulder finishes and smooth cutting action.

To learn more about our innovations, contact your local Authorized Distributor or visit www.widia.com.

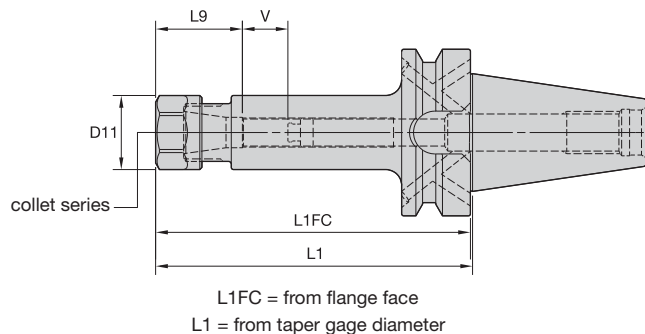
WIDIA 

BTKV40 Shank Tools

ER Single-Angle Collet Chucks



- Grip (2:1 advantage).



BTKV40 Shank Tools

ERICKSON

■ ER Hex-BTKV Form B/AD

ER collet series	mm		inch	
	min	max	min	max
ER16	0,5	10,0	.02	.41
ER20	0,5	13,0	.02	.50
ER25	1,0	16,0	.04	.63
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

order number	catalog number	collet series	D11	L1	L1FC	L9	V	kg
3857088	BTKV40BER16060M	ER16	28	60,0	59,0	32	32	1,04
3857089	BTKV40BER16120M	ER16	28	120,0	119,0	32	48	1,29
3857090	BTKV40BER20060M	ER20	34	60,0	59,0	36	27	1,04
3857091	BTKV40BER20120M	ER20	34	120,0	119,0	36	64	1,42

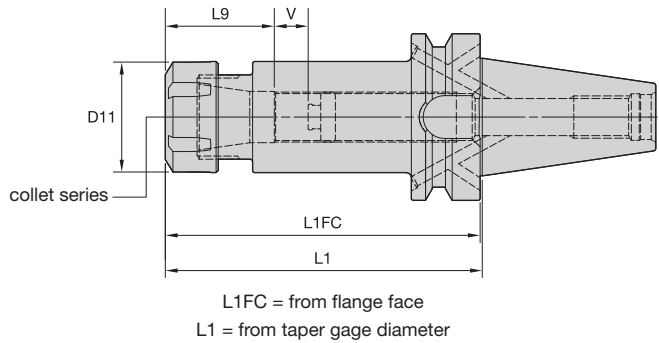
■ Spare Parts



catalog number	locknut	wrench	counterbore collet torque (Nm)	straight collet torque (Nm)	stop screw	wrench size stop screw
BTKV40BER16060M	LNHSER16M	OEW25M	40	56	SS044038G	4mm & 5/32
BTKV40BER16120M	LNHSER16M	OEW25M	40	56	SS044038G	4mm & 5/32
BTKV40BER20060M	LNHSER20M	OEW30M	32	80	SS056041G	4mm & 5/32
BTKV40BER20120M	LNHSER20M	OEW30M	32	80	SS056041G	4mm & 5/32

(continued)

(ER BTKV Form B/AD continued)



BTKV40 Shank Tools

ER Round-BTKV Form B/AD

order number	catalog number	collet series	D11	L1	L1FC	L9	V	kg
3857092	BTKV40BER25070M	ER25	42	70,0	69,0	40	22	1,16
3857123	BTKV40BER25120M	ER25	42	120,0	119,0	40	60	1,61
3857124	BTKV40BER32070M	ER32	50	70,0	69,0	46	12	1,22
3857125	BTKV40BER32120M	ER32	50	120,0	119,0	46	54	1,85
3857126	BTKV40BER40080M	ER40	63	80,0	79,0	52	9	1,38
3857127	BTKV40BER40120M	ER40	63	120,0	119,0	52	41	2,26

Spare Parts

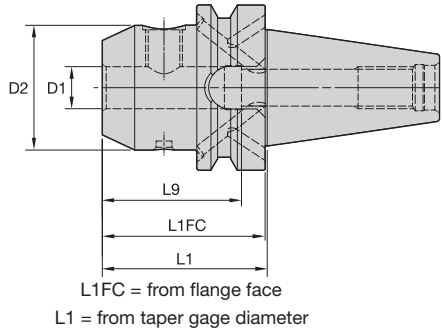
catalog number	locknut	wrench	Nm	stop screw	wrench size stop screw
BTKV40BER25070M	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
BTKV40BER25120M	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
BTKV40BER32070M	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
BTKV40BER32120M	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
BTKV40BER40080M	LNSER40M	ER40WM	176	SS112041G	4mm & 5/32
BTKV40BER40120M	LNSER40M	ER40WM	176	SS112041G	4mm & 5/32

NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.
 Collet chuck technical section, see page K74.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 ER standard straight-bore collets, see page I50.
 ER tap collets, see page I58.
 ER TCT tension-only tap collets, see page I60.
 For retention knobs, see page J33.

Form AD	✓	✗	✗	✗	✗
Form B	✗	✓	✓	40	(2x) MS2221S
				50	(2x) MS1296S
					2,5mm
					3mm

BTKV40 Shank Tools

End Mill Adapters



ERICKSON™

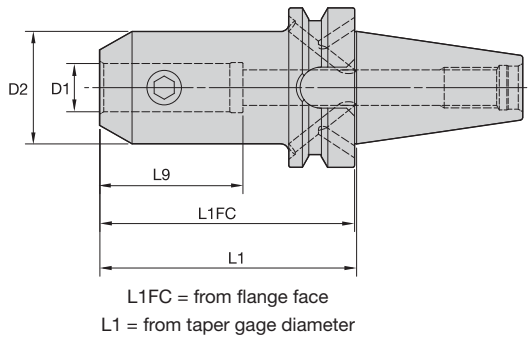
■ EM MM-BTKV Form B/AD



order number	catalog number	D1	D2	L1	L1FC	L9	lock screw	wrench size lock screw	Nm	kg
3856578	BTKV40BEM06050M	6	25	50,0	49,0	84	SS03M012	3mm	7	1,01
3856579	BTKV40BEM08050M	8	28	50,0	49,0	84	SS03M014	4mm	15	1,03
3856580	BTKV40BEM10063M	10	35	63,0	62,0	97	SS03M018	5mm	25	1,16
3856581	BTKV40BEM12063M	12	42	63,0	62,0	97	SS03M023	6mm	35	1,25
3856582	BTKV40BEM14063M	14	44	63,0	62,0	97	SS03M023	6mm	35	1,28
3856583	BTKV40BEM16063M	16	48	63,0	62,0	53	SS03M025	6mm	50	1,33
3856584	BTKV40BEM18063M	18	50	63,0	62,0	53	SS03M025	6mm	50	1,35
3856585	BTKV40BEM20063M	20	52	63,0	62,0	55	SS03M026	8mm	95	1,36
3856586	BTKV40BEM25090M	25	63	90,0	89,0	60	SS03M027	10mm	135	2,16

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(EM BTKV Form B/AD continued)



BTKV40 Shank Tools

EM IN-BTKV Form B/AD



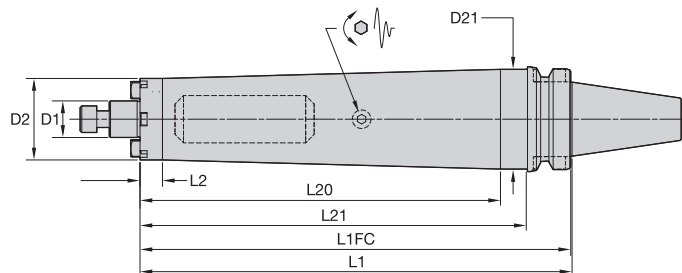
order number	catalog number	D1	D2	L1	L1FC	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
3856587	BTKV40BEM025250	1/4	1.00	2.50	2.46	3.85	ELS025025PKG	1/8	5	2.35
3856588	BTKV40BEM031250	5/16	1.00	2.50	2.46	3.85	ELS031031PKG	5/32	11	2.31
3856589	BTKV40BEM038250	3/8	1.00	2.50	2.46	3.85	ELS038031PKG	3/16	15	2.32
3856590	BTKV40BEM050300	1/2	1.38	3.00	2.96	4.35	ELS044038PKG	7/32	20	2.69
3856591	BTKV40BEM062300	5/8	1.63	3.00	2.96	2.09	ELS056050PKG	1/4	40	2.93
3856592	BTKV40BEM075400	3/4	1.75	4.00	3.96	2.22	ELS062050PKG	5/16	70	3.62
3856593	BTKV40BEM088400	7/8	2.00	4.00	3.96	2.22	ELS062050PKG	5/16	70	4.11
3856594	BTKV40BEM100400	1	2.00	4.00	3.96	2.56	ELS075056PKG	3/8	110	3.95
3856595	BTKV40BEM125400	1 1/4	2.50	4.00	3.96	2.51	ELS075062PKG	3/8	110	4.81

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.
For retention knobs, see page J33.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

BTKV40 Shank Tools

Tunable Shell Mill Adapters with Through Coolant



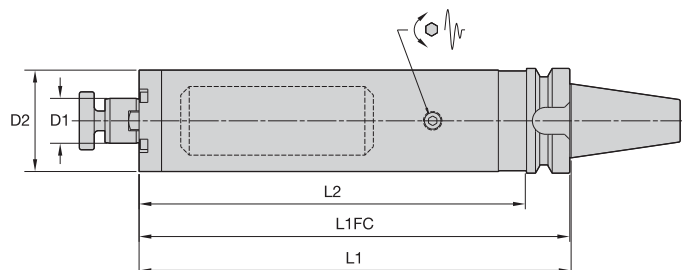
L1FC = from flange face
L1 = from taper gage diameter



ERICKSON

■ SMC TD Cap MM-BTKV Form B/AD

order number	catalog number	D1	D2	D21	L1	L1FC	L2	L20	L21	lock screw	drive key	wrench size lock screw	kg
4136287	BTKV40BTDSMC22260M	22	49	60	260	259	13,5	216,8	233	MS1234	KDK22M	8mm	5,07

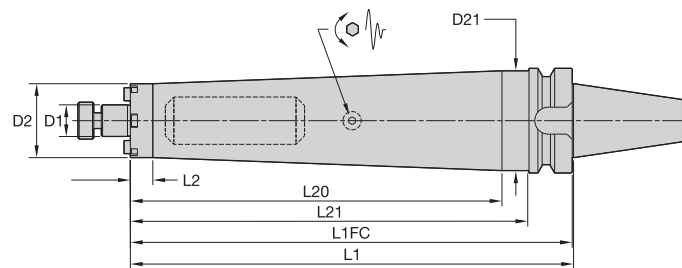


L1FC = from flange face
L1 = from taper gage diameter



■ SMC TD Lock MM-BTKV Form B/AD

order number	catalog number	D1	D2	L1	L2	L1FC	lock screw	drive key	wrench size lock screw	kg
4136288	BTKV40BTDSMC27260M	27	61	260	233	259	KLSS27M	—	10mm	5,98

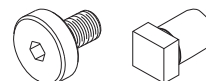


L1FC = from flange face
L1 = from taper gage diameter



■ SMC TD Lock IN-BTKV Form B/AD

order number	catalog number	D1	D2	D21	L1	L1FC	L2	L20	L21	lock screw	drive key	wrench size lock screw	lbs
4136289	BTKV40BTDSMC0751050	3/4	1.750	2.362	10.500	10.460	.53	8.797	9.437	KLS07	KDK05	1/4	10.69
4136290	BTKV40BTDSMC1001050	1	2.189	—	10.500	10.460	9.44	—	—	KLS10	KDK06	5/16	11.84



NOTE: Do not overtighten lock screw.
Supplied with lock screw and drive keys.
Interchangeable coolant-style lock screws are available and must be ordered separately; see page J26.
Lock screw wrench not included.
For retention knob, see page J33.



WIN WITH WIDIA™



M270 Series • For Secure and Rigid Insert Clamping

With precision engineered ball nose, toroidal, and new high-feed inserts, the M270 Series provides the highest accuracy and insert stability for exceptional reliability and performance.

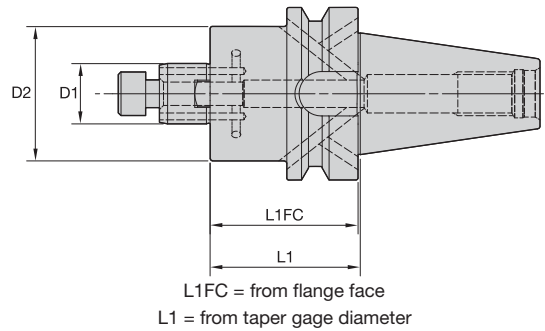
- New performance-boosting High-Feed (HF) inserts offered standard and are now available in grade TN6525™ for steel optimization.
- Ball nose and toroidal tools for semi-finishing through finishing are also available.
- V-shaped contact faces enable maximum rigidity and accuracy.

To learn more about our innovations, contact your local Authorized Distributor or visit www.widia.com.

WIDIA 

BTKV40 Shank Tools

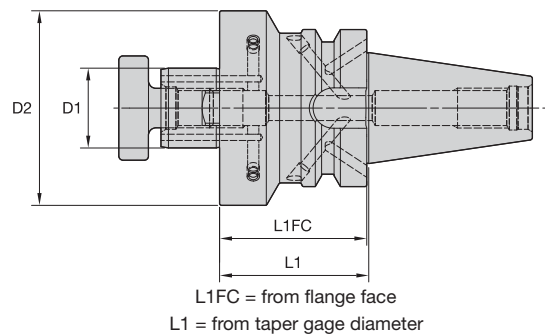
Shell Mill Adapters with Through Coolant



ERICKSON

■ SMC Cap MM-BTKV Form B/AD

order number	catalog number	D1	D2	L1	L1FC	lock screw	drive key	wrench size lock screw	kg
3857109	BTKV40BSM2C16050M	16	38	50,0	49,0	MS1294	KDK16M	6mm	1,17
3857108	BTKV40BSMC16050M	16	44	50,0	49,0	MS1294	KDK16M	6mm	1,24
3857111	BTKV40BSM2C22055M	22	42	55,0	54,0	MS1234	—	8mm	1,31
3857110	BTKV40BSMC22055M	22	49	55,0	54,0	MS1234	KDK22M	8mm	1,42



■ SMC Lock MM-BTKV Form B/AD

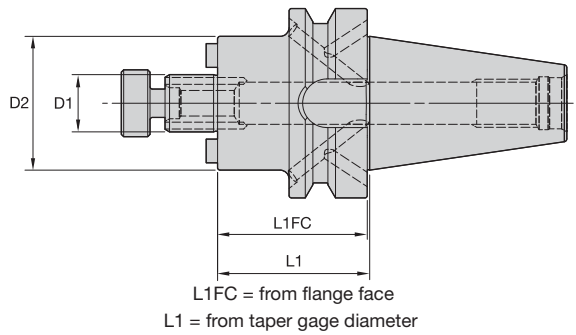
order number	catalog number	D1	D2	L1	L1FC	lock screw	drive key	wrench size lock screw	kg
3857112	BTKV40BSMC27055M	27	60	55,0	54,0	KLSS27M	KDK27M	10mm	1,68
3857163	BTKV40BSMC32060M	32	78	60,0	59,0	KLSS32M	KDK32M	14mm	2,23



(continued)



(SMC BTKV Form B/AD continued)



BTKV40 Shank Tools

■ SMC TD Lock IN-BTKV Form B/AD



order number	catalog number	D1	D2	L1	L1FC	lock screw	drive key	wrench size lock screw	lbs
3857166	BTKV40BSM2C050175	1/2	1.20	1.75	1.71	KLS05	KDK04	3/16	2.37
3857165	BTKV40BSMC050175	1/2	1.44	1.75	1.71	KLS05	KDK04	3/16	2.42
3857168	BTKV40BSM2C075200	3/4	1.46	2.00	1.96	KLS07	—	1/4	2.59
3857167	BTKV40BSMC075200	3/4	1.75	2.00	1.96	KLS07	KDK05	1/4	2.79
3857170	BTKV40BSM2C100200	1	2.19	2.00	1.96	KLS10	KDK06	5/16	3.25
3857169	BTKV40BSMC100200	1	2.75	2.00	1.96	KLS10	KDK06	5/16	3.71
3857171	BTKV40BSMC125200	1 1/4	2.88	2.00	1.96	KLS12	KDK08	5/16	4.05
3857172	BTKV40BSMC150200	1 1/2	3.81	2.00	1.96	KLS15	KDK10	3/8	5.39

NOTE: Do not overtighten lock screw; use torque recommendations above.

Supplied with lock screw and drive keys.

Interchangeable coolant-style lock screws are available and must be ordered separately; see page J26.

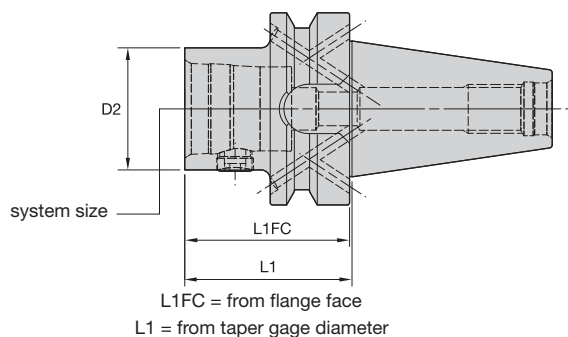
Lock screw wrench not included.

For retention knobs, see page J33.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

BTKV40 Shank Tools

KM™ Modular Adapters



ERICKSON™

■ KM-BTKV Form B/AD



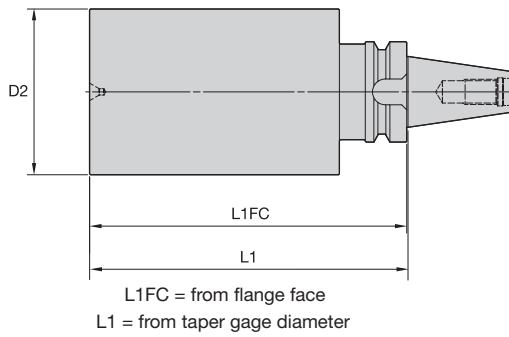
order number	catalog number	system size	D2	L1	L1FC	KM spare parts package	wrench size actuation screw	Nm	kg
3822963	BTKV40BKM32050M	KM32	32	50,0	49,0	KM32PKG3S	5mm	8-11	1,06
3822964	BTKV40BKM32090M	KM32	32	90,0	89,0	KM32PKG3S	5mm	8-11	1,28
3822965	BTKV40BKM40055M	KM40	40	55,0	54,0	KM40PKG3S	6mm	12-16	1,15
3822966	BTKV40BKM40100M	KM40	40	100,0	99,0	KM40PKG3S	6mm	12-16	1,54
3822967	BTKV40BKM50065M	KM50	50	65,0	64,0	KM50PKG3S	10mm	27-34	1,34
3822968	BTKV40BKM50120M	KM50	50	120,0	119,0	KM50PKG3S	10mm	27-34	2,13

NOTE: Do not overtorque actuation screw; use torque recommendations above.
Supplied with KM actuation mechanism.
For retention knobs, see page J33.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm



- Machinable front 20–30 RW C.



ERICKSON

■ BB-BTKV Form A

order number	catalog number	D2	L1	L1FC	kg
3815352	BTKV40BB063280M	63,0	280,0	279,0	7,13
3815363	BTKV40BB104200M	104,0	200,0	199,0	11,78

NOTE: For retention knobs, see page J33.

Erickson™ Taper Face Contact Shank Tooling System •

BTKV50 Series

Erickson Taper Face BT Contact Taper Tooling is manufactured from premium materials and to the latest JIS B 6339 specification standard. Controlled, increased flange thickness to the rear of the flange gains face contact between spindle and holder.

BTKV50



The BTKV50 tools are prebalanced to a high specification that will perform effectively up to 20,000 RPM. For any applications higher than 20,000 RPM, WIDIA™ recommends that the complete toolholder assembly (toolholder, retention knobs, collets, hardware, and cutting tools) be balanced as one identity.



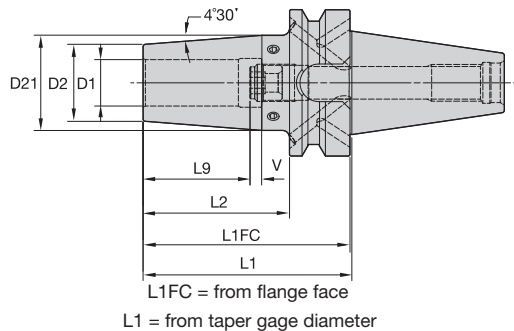
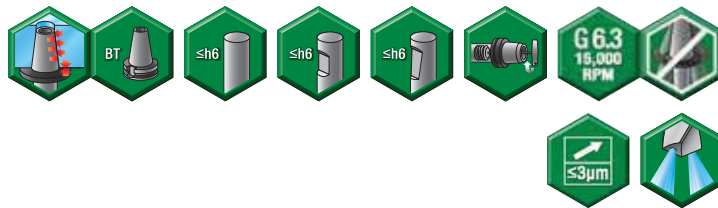
- JIS B 6339 7/24 taper.
- Standard M24 metric drawbar thread.
- High axial repeatability due to face contact.
- High radial positioning due to controlled, tighter drive key widths.
- All tools set to form AD coolant specification. Many can be converted to form B style.
- Maximum 20,000 RPM.
- Maximum 100 bar (1,500 psi) coolant pressure.

BTKV50 Shank Tools

Shrink Fit Toolholders General Purpose (GP)



- Balanceable — fine tune with optional M6 set screws.
- Suitable for carbide and HSS cutting tools (requirements below).



Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
6	h6	0,000/-0,008
8 & 10	h6	0,000/-0,009
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

■ TT GP HPV MM-BTKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	kg
3856633	BTKV50BHPVTT06100M	6	21	27	100	98,5	62,0	26	10	TTSS05014M	2,5mm	3,72
3856634	BTKV50BHPVTT08100M	8	21	27	100	98,5	62,0	26	10	TTSS06014M	3mm	3,72
3856635	BTKV50BHPVTT10100M	10	24	32	100	98,5	62,0	31	10	TTSS08014M	4mm	3,78
3856636	BTKV50BHPVTT12100M	12	24	32	100	98,5	62,0	36	10	TTSS10014M	5mm	3,76
3856637	BTKV50BHPVTT14100M	14	27	34	100	98,5	62,0	36	10	TTSS10014M	5mm	3,81
3856638	BTKV50BHPVTT16100M	16	27	34	100	98,5	62,0	39	10	TTSS12014M	6mm	3,79
3856639	BTKV50BHPVTT18100M	18	33	41	100	98,5	62,0	39	10	TTSS12014M	6mm	3,93
3856640	BTKV50BHPVTT20100M	20	33	41	100	98,5	62,0	41	10	TTSS16014M	8mm	3,90
3856641	BTKV50BHPVTT25100M	25	44	52	100	98,5	62,0	47	10	TTSS16014M	8mm	4,19
3856642	BTKV50BHPVTT32100M	32	44	52	100	98,5	62,0	51	10	TTSS16014M	8mm	4,03

(continued)

(TT GP HPV BTKV Form B/AD continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/4, 5/16, & 3/8	-.0001/- .0004
7/16, 1/2, & 5/8	.0000/- .0004
3/4, 7/8, 1, & 1-1/4	.0000/- .0005

■ TT GP HPV In-BTKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	lbs
3859981	BTKV50BHPVTT025400	1/4	.83	1.06	4.00	3.94	2.50	1.02	.39	TTSS05014M	2,5mm	8.23
3859982	BTKV50BHPVTT031400	5/16	.83	1.06	4.00	3.94	2.50	1.02	.39	TTSS06014M	3mm	8.21
3860033	BTKV50BHPVTT038400	3/8	.94	1.26	4.00	3.94	2.50	1.22	.39	TTSS08014M	4mm	8.36
3860034	BTKV50BHPVTT044400	7/16	.94	1.26	4.00	3.94	2.50	1.42	.39	TTSS10014M	5mm	8.33
3860035	BTKV50BHPVTT050400	1/2	.94	1.26	4.00	3.94	2.50	1.42	.39	TTSS10014M	5mm	8.31
3860036	BTKV50BHPVTT062400	5/8	1.06	1.33	4.00	3.94	2.50	1.54	.39	TTSS12014M	6mm	8.38
3860037	BTKV50BHPVTT075400	3/4	1.30	1.61	4.00	3.94	2.50	1.61	.39	TTSS16014M	8mm	8.66
3860038	BTKV50BHPVTT088400	7/8	1.30	1.61	4.00	3.94	2.50	1.61	.39	TTSS16014M	8mm	8.60
3860039	BTKV50BHPVTT100400	1	1.73	2.05	4.00	3.94	2.50	1.85	.39	TTSS16014M	8mm	9.27
3860040	BTKV50BHPVTT125400	1 1/4	1.73	2.05	4.00	3.94	2.50	2.01	.39	TTSS16014M	8mm	8.95

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.

Supplied with stop screw.

Adjusting stop screw gage, see page K59.

Optional M6~1.0P x 5mm lg fine-balancing screw set (10 pieces) is available. Order number is MS1276PKG and must be ordered separately.

For retention knobs, see page J33.

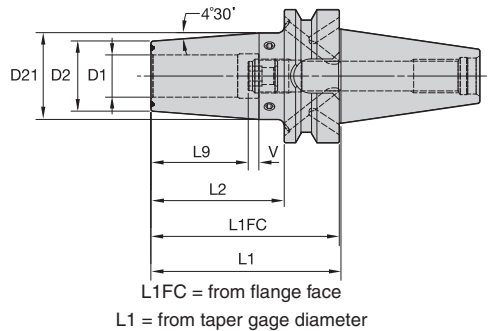
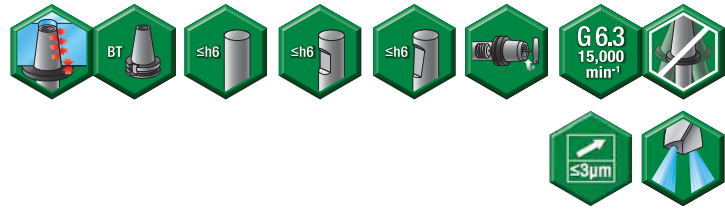
Form AD						
Form B				40	(2x) MS2221S	2,5mm
				50	(2x) MS1296S	3mm

BTKV50 Shank Tools

Shrink Fit Toolholders High Torque (HT)



- 30–50% higher clamping torque compared to GP line.
- Balanceable — fine tune with optional M6 set screws.
- Suitable for carbide only, designated by groove in front face (requirements below).
- 10 kW power or greater Shrink Fit device must be used.



Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

■ TT HT HPV MM-BTKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	kg
3856643	BTKV50BHPVTTHT12100M	12	24	32	100	98,5	62,0	36	10	TTSS10014M	5mm	3,76
3856644	BTKV50BHPVTTHT14100M	14	27	34	100	98,5	62,0	36	10	TTSS10014M	5mm	3,81
3856645	BTKV50BHPVTTHT16100M	16	27	34	100	98,5	62,0	39	10	TTSS12014M	6mm	3,79
3856646	BTKV50BHPVTTHT18100M	18	33	41	100	98,5	62,0	39	10	TTSS12014M	6mm	3,93
3856647	BTKV50BHPVTTHT20100M	20	33	41	100	98,5	62,0	41	10	TTSS16014M	8mm	3,90
3856648	BTKV50BHPVTTHT25100M	25	44	52	100	98,5	62,0	47	10	TTSS16014M	8mm	4,90
3856649	BTKV50BHPVTTHT32100M	32	44	52	100	98,5	62,0	51	10	TTSS16014M	8mm	4,03

(continued)

(TT HT HPV BTKV Form B/AD continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/2 & 5/8	.0000/- .0004
3/4, 7/8, 1, & 1-1/4	.0000/- .0005

■ TT HT HPV In-BTKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	lbs
3860041	BTKV50BHPVTTH050400	1/2	.94	1.26	4.00	3.94	2.504	1.42	.39	TTSS10014M	5mm	8.31
3860042	BTKV50BHPVTTH062400	5/8	1.06	1.33	4.00	3.94	2.504	1.54	.39	TTSS12014M	6mm	8.38
3860043	BTKV50BHPVTTH075400	3/4	1.30	1.61	4.00	3.94	2.504	1.61	.39	TTSS16014M	8mm	8.66
3860044	BTKV50BHPVTTH088400	7/8	1.30	1.61	4.00	3.94	2.504	1.61	.39	TTSS16014M	8mm	8.60
3860045	BTKV50BHPVTTH100400	1	1.73	2.05	4.00	3.94	2.504	1.85	.39	TTSS16014M	8mm	9.27
3860046	BTKV50BHPVTTH125400	1 1/4	1.73	2.05	4.00	3.94	2.504	2.01	.39	TTSS16014M	8mm	8.95

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.

Shrink Fit technical section, see page K56.

Supplied with stop screw.

Adjusting stop screw gage, see page K59.

Optional M6~1.0P x 5mm lg fine-balancing screw set (10 pieces) is available. Order number is MS1276PKG and must be ordered separately.

For retention knobs, see page J33.

Form AD						
Form B				40	(2x) MS2221S	2,5mm
				50	(2x) MS1296S	3mm



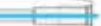
TG collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
TG100	2,6	25,5	5/64	1
TG150	11.6	40.0	23/64	1-1/2

TG Round-BTKV Form B/AD



order number	catalog number	collet series	D11	L1	L1FC	L9	V	locknut	wrench	stop screw	wrench size	stop screw	Nm	kg
3856665	BTKV50BTG100090M	TG100	60	90,0	88,5	64	36	LNA100M	HSW58M	SS112041G	4mm & 5/32		203	3,97
3856666	BTKV50BTG100150M	TG100	60	150,0	148,5	64	89	LNA100M	HSW58M	SS112041G	4mm & 5/32		203	5,15
3856667	BTKV50BTG150100M	TG150	85	100,0	98,5	78	13	LNA150M	HSW80M	SS162062G	4mm & 5/32		271	4,43
3856668	BTKV50BTG150150M	TG150	85	150,0	148,5	78	49	LNA150M	HSW80M	SS162062G	4mm & 5/32		271	6,08

For retention knobs, see page 600.

 Form AD					
 Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

WIN WITH WIDIA™



ProGroove™

With easy-to-change inserts available in multiple high-performance carbide grades, the ProGroove system ensures accurate, reliable, and reproducible cutting edge performance.

ProGroove Grooving and Cut-Off

- Single-end inserts for grooving and cut-off.
- Offered with integral shanks and blades.
- Shallow, deep grooving, and cut-off capabilities.
- Available in four different geometries.

To learn more about our innovations, contact your local Authorized Distributor or visit www.widia.com.

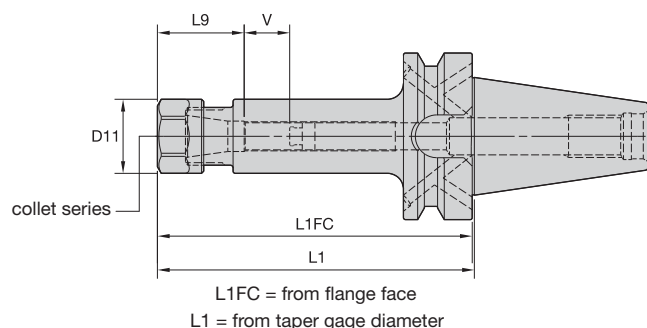
WIDIA 
Win with WIDIA™

BTKV50 Shank Tools

ER Single-Angle Collet Chucks



- Grip (2:1 advantage).



ER collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
ER16	0,5	10,0	.02	.41
ER20	0,5	13,0	.02	.50
ER25	1,0	16,0	.04	.63
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

ERICKSON™

■ ER Hex-BTKV Form B/AD

order number	catalog number	collet series	D11	L1	L1FC	L9	V	kg
3857128	BTKV50BER16100M	ER16	28	100	98,5	32	48	3,78
3857129	BTKV50BER16150M	ER16	28	150	148,5	32	48	3,97
3857130	BTKV50BER20070M	ER20	34	70	68,5	36	24	3,65
3857131	BTKV50BER20150M	ER20	34	150	148,5	36	64	4,12

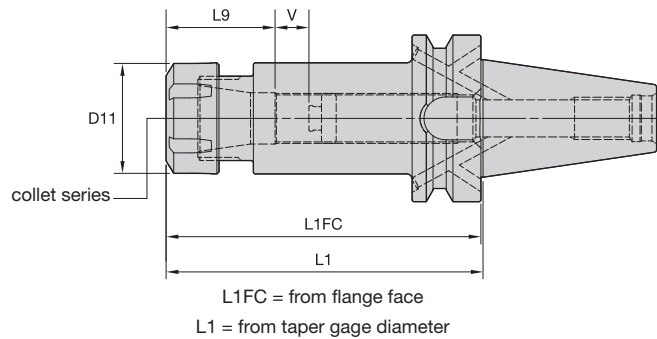
■ Spare Parts



catalog number	locknut	wrench	counterbore collet torque (Nm)	straight collet torque (Nm)	stop screw	wrench size stop screw
BTKV50BER16100M	LNHSER16M	OEW25M	40	56	SS044038G	4mm & 5/32
BTKV50BER16150M	LNHSER16M	OEW25M	40	56	SS044038G	4mm & 5/32
BTKV50BER20070M	LNHSER20M	OEW30M	32	80	SS056041G	4mm & 5/32
BTKV50BER20150M	LNHSER20M	OEW30M	32	80	SS056041G	4mm & 5/32

(continued)

(ER BTKV Form B/AD continued)



■ ER Round-BTKV Form B/AD

order number	catalog number	collet series	D11	L1	L1FC	L9	V	kg
3857132	BTKV50BER25070M	ER25	42	70,0	68,5	40	40	3,69
3857133	BTKV50BER25150M	ER25	42	150,0	148,5	40	60	4,38
3857134	BTKV50BER32070M	ER32	50	70,0	68,5	46	38	3,67
3857135	BTKV50BER32150M	ER32	50	150,0	148,5	46	54	4,67
3857136	BTKV50BER40080M	ER40	63	80,0	78,5	52	38	3,83
3857137	BTKV50BER40150M	ER40	63	150,0	148,5	52	48	5,33

■ Spare Parts

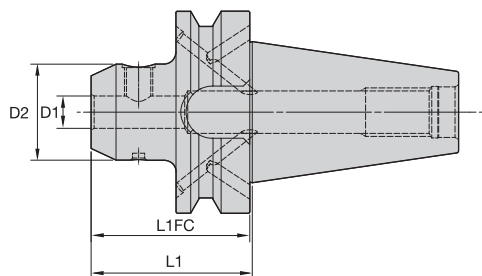
catalog number	locknut	wrench	Nm	stop screw	wrench size stop screw
BTKV50BER25070M	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
BTKV50BER25150M	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
BTKV50BER32070M	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
BTKV50BER32150M	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
BTKV50BER40080M	LNSER40M	ER40WM	176	SS112041G	4mm & 5/32
BTKV50BER40150M	LNSER40M	ER40WM	176	SS112041G	4mm & 5/32

NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.
 Collet chuck technical section, see page K74.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 ER standard straight-bore collets, see page I50.
 ER tap collets, see page I58.
 ER TCT tension-only tap collets, see page I60.
 For retention knobs, see page J33.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

BTKV50 Shank Tools

End Mill Adapters



L1FC = from flange face
L1 = from taper gage diameter



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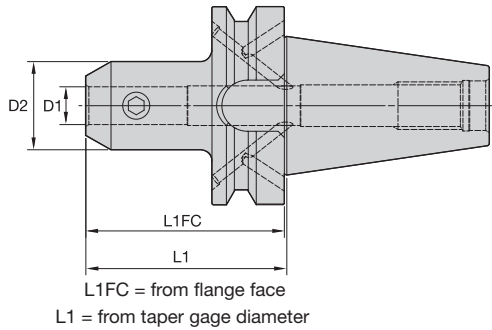
■ EM MM-BTKV Form B/AD



order number	catalog number	D1	D2	L1	L1FC	lock screw	wrench size lock screw	Nm	kg
3856539	BTKV50BEM06063M	6	24,5	63,0	61,5	SS03M012	3mm	7	3,58
3856541	BTKV50BEM08063M	8	27,5	63,0	61,5	SS03M014	4mm	15	3,60
3856542	BTKV50BEM10080M	10	34,5	80,0	78,5	SS03M018	5mm	25	3,79
3856563	BTKV50BEM12080M	12	41,5	80,0	78,5	SS03M023	6mm	35	3,86
3856564	BTKV50BEM14080M	14	43,5	80,0	78,5	SS03M023	6mm	35	3,90
3856565	BTKV50BEM16080M	16	47,5	80,0	78,5	SS03M025	6mm	50	3,97
3856566	BTKV50BEM18080M	18	49,5	80,0	78,5	SS03M025	6mm	50	4,00
3856567	BTKV50BEM20080M	20	51,5	80,0	78,5	SS03M026	8mm	95	4,02
3856568	BTKV50BEM25105M	25	64,5	105,0	103,5	SS03M027	10mm	135	4,80
3856569	BTKV50BEM32105M	32	71,5	105,0	103,5	SS03M029	10mm	160	5,04
3856570	BTKV50BEM40120M	40	89,5	120,0	118,5	SS03M029	10mm	160	6,56
3856571	BTKV50BEM50130M	50	99,5	130,0	128,5	—	12mm	200	7,50

(continued)

(EM BTKV Form B/AD continued)



BTKV50 Shank Tools

■ EM IN-BTKV Form B/AD



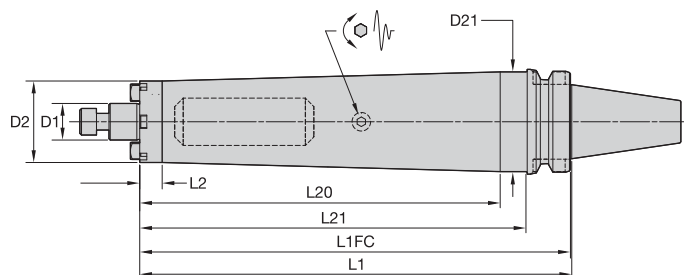
order number	catalog number	D1	D2	L1	L1FC	lock screw	wrench size lock screw	ft. lbs.	lbs
3856572	BTKV50BEM050300	1/2	1.37	3.00	2.94	ELS044038PKG	7/32	20	8.18
3856573	BTKV50BEM075400	3/4	1.75	4.00	3.94	ELS062050PKG	5/16	70	8.99
3856574	BTKV50BEM100400	1	2.00	4.00	3.94	ELS075056PKG	3/8	110	8.95
3856575	BTKV50BEM125400	1 1/4	2.50	4.00	3.94	ELS075062PKG	3/8	110	10.08
3856576	BTKV50BEM150450	1 1/2	2.75	4.50	4.44	ELS075069PKG	3/8	110	11.05
3856577	BTKV50BEM200550	2	3.75	5.50	5.44	ELS100088PKG	1/2	148	16.28

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.
For retention knobs, see page J33.

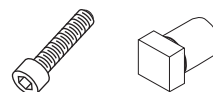
Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

BTKV50 Shank Tools

Tunable Shell Mill Adapters with Through Coolant



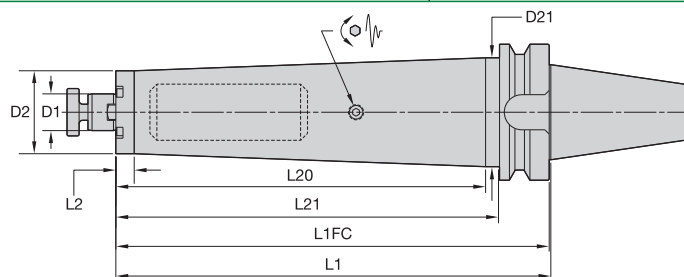
L1FC = from flange face
L1 = from taper gage diameter



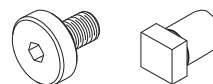
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■ SMC TD Cap MM-BTKV Form B/AD

order number	catalog number	D1	D2	D21	L1	L1FC	L2	L20	L21	lock screw	drive key	wrench size lock screw	kg
4136291	BTKV50BTDSMC22260M	22	49	70	260,0	258,5	13,5	211,8	222	MS1234	KDK22M	8mm	8,27

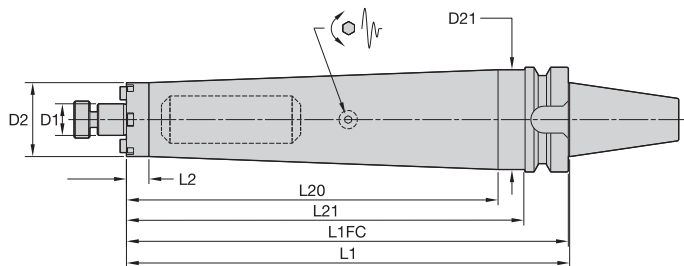


L1FC = from flange face
L1 = from taper gage diameter

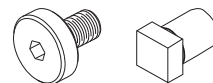


■ SMC TD Lock MM-BTKV Form B/AD

order number	catalog number	D1	D2	D21	L1	L1FC	L2	L20	L21	lock screw	drive key	wrench size lock screw	kg
4136292	BTKV50BTDSMC27320M	27	61	80	320	318,5	13,5	271,8	282	KLSS27M	—	10mm	11,89
4136303	BTKV50BTDSMC32330M	32	78	—	330	328,5	292,0	—	—	KLSS32M	KDK32M	14mm	16,22



L1FC = from flange face
L1 = from taper gage diameter



■ SMC TD Lock IN-BTKV Form B/AD

order number	catalog number	D1	D2	D21	L1	L1FC	L2	L20	L21	lock screw	drive key	wrench size lock screw	lbs
4136304	BTKV50BTDSMC0751050	3/4	1.75	2.56	10.50	10.44	.53	8.60	9.00	KLS07	KDK05	1/4	16.86
4136305	BTKV50BTDSMC1001250	1	2.75	—	12.50	12.44	11.00	—	—	KLS10	KDK06	5/16	25.60
4136306	BTKV50BTDSMC1251300	1 1/4	2.88	—	13.00	12.94	11.50	—	—	KLS12	KDK08	5/16	32.85

NOTE: Do not overtighten lock screw.

Supplied with lock screw and drive keys.

Interchangeable coolant-style lock screws are available and must be ordered separately; see page J26.

Lock screw wrench not included.

For retention knobs, see page J33.



WIN WITH WIDIA™



KM™ ROTAFLEX™

The ROTAFLEX high-performance hole finishing system from WIDIA™, with its long history of proven successes, now features a host of new developments that will further its reputation as the premier hole-finishing solution for metalworking manufacturers.

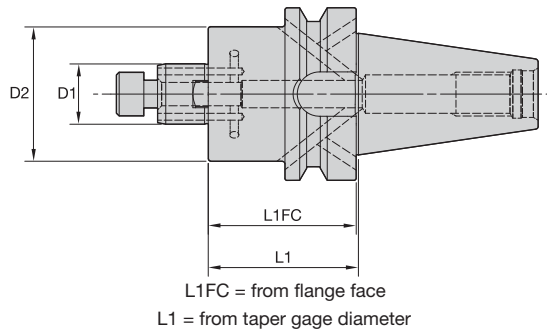
With both roughing and precision finishing heads available, ROTAFLEX represents a single WIDIA system for both roughing and fine-finishing operations over a broad diameter range. The very stable KM-TS coupling and the newly developed RFX coupling are applicable to almost every machine spindle and offer easy assembly and disassembly due to less vibration, resulting in increased machine tool productivity and longer intervals between scheduled maintenance.

To learn more about our innovations, contact your local Authorized Distributor or visit www.widia.com.

WIDIA 

BTKV50 Shank Tools

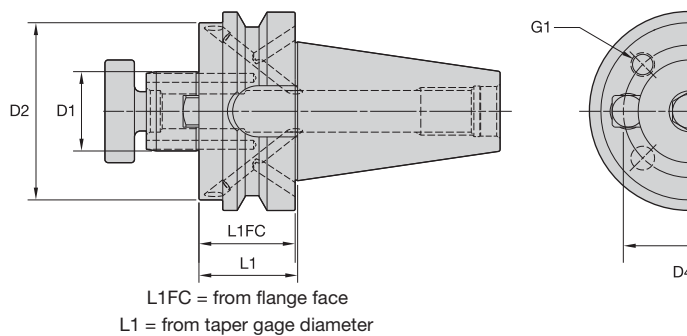
Shell Mill Adapters with Through Coolant



ERICKSON

■ SMC Cap MM-BTKV Form B/AD

order number	catalog number	D1	D2	L1	L1FC	lock screw	drive key	wrench size lock screw	kg
3857069	BTKV50BSM2C16045M	16	38	45,0	43,5	MS1294	KDK16M	6mm	3,66
3857068	BTKV50BSMC16045M	16	44	45,0	43,5	MS1294	KDK16M	6mm	3,67
3857071	BTKV50BSM2C22045M	22	42	45,0	43,5	MS1234	—	8mm	3,66
3857070	BTKV50BSMC22045M	22	49	45,0	43,5	MS1234	KDK22M	8mm	3,69



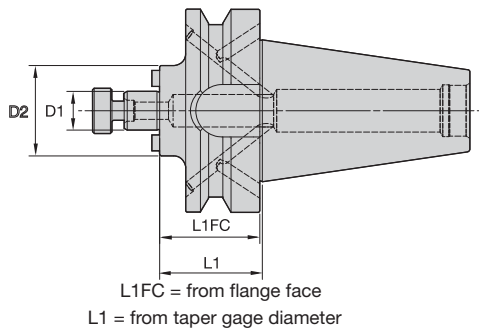
■ SMC Lock MM-BTKV Form B/AD

order number	catalog number	D1	D2	D4	G1	L1	L1FC	lock screw	drive key	wrench size lock screw	kg
3857072	BTKV50BSMC27045M	27	60	—	—	45,0	43,5	KLSS27M	KDK27M	10mm	3,80
3857093	BTKV50BSMC32045M	32	78	—	—	45,0	43,5	KLSS32M	KDK32M	14mm	4,01
3857094	BTKV50BSMC40050M	40	89	66,7	M12X1.75	50,0	48,5	KLSS40M	KDK40M	17mm	4,46
3857095	BTKV50BSMC60090M	60	129	101,6	M16X2.0	90,0	88,5	—	KDK60M	—	8,55



(continued)

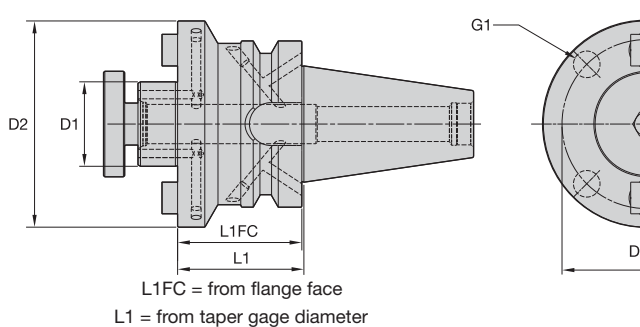
(SMC Lock BTKV Form B/AD continued)



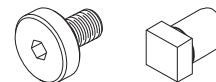
■ SMC Lock MM-BTKV Form B/AD



order number	catalog number	D1	D2	L1	L1FC	lock screw	drive key	wrench size lock screw	lbs
3857097	BTKV50BSM2C075200	3/4	1.46	2.00	1.941	KLS07	—	1/4	8.14
3857096	BTKV50BSM075200	3/4	1.75	2.00	1.941	KLS07	KDK05	1/4	8.25
3857099	BTKV50BSM2C100200	1	2.19	2.00	1.941	KLS10	KDK06	5/16	8.45
3857098	BTKV50BSM0100200	1	2.75	2.00	1.941	KLS10	KDK06	5/16	8.75
3857100	BTKV50BSMC125200	1 1/4	2.88	2.00	1.941	KLS12	KDK08	5/16	9.05
3857101	BTKV50BSMC150200	1 1/2	3.81	2.00	1.941	KLS15	KDK10	3/8	10.07



■ SMC Lock IN-BTKV Form B/AD



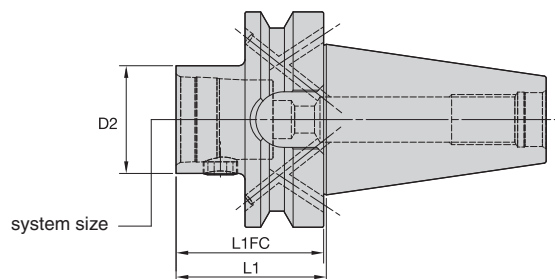
order number	catalog number	D1	D2	D4	G1	L1	L1FC	lock screw	drive key	wrench size lock screw	lbs
3857102	BTKV50BSMC200300	2	4.88	4.00	5/8-11 UNC	3.00	2.94	KLS20	KDK12	9/16	15.08
3857103	BTKV50BSMC250300	2 1/2	4.88	4.00	5/8-11 UNC	3.00	2.94	KLS25	KDK16	9/16	16.33

NOTE: Do not overtighten lock screw.
Supplied with lock screw and drive keys.
Interchangeable coolant-style lock screws are available and must be ordered separately; see page J26.
Lock screw wrench not included.
For retention knob, see page J33.

Form AD	✓	✗	✗	✗	✗
Form B	✗	✓	✓	40	(2x) MS2221S 2,5mm
				50	(2x) MS1296S 3mm

BTKV50 Shank Tools

KM™ Modular Adapters



L1FC = from flange face
L1 = from taper gage diameter



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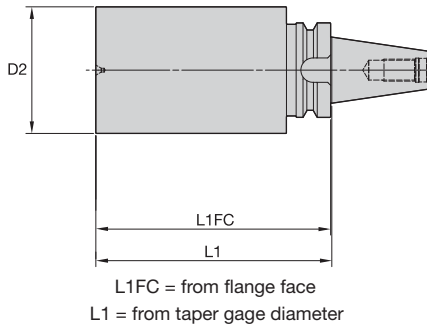
■ KM-BTKV Form B/AD

order number	catalog number	system size	D2	L1	L1FC	KM spare parts package	wrench size actuation screw	Nm	kg
3815301	BTKV50BKM32060M	KM32	32	60	58,5	KM32PKG3S	5mm	8-11	3,63
3815302	BTKV50BKM32090M	KM32	32	90	88,5	KM32PKG3S	5mm	8-11	3,78
3815333	BTKV50BKM40065M	KM40	40	65	63,5	KM40PKG3S	6mm	12-16	3,72
3815334	BTKV50BKM40100M	KM40	40	100	98,5	KM40PKG3S	6mm	12-16	4,01
3815335	BTKV50BKM50070M	KM50	50	70	68,5	KM50PKG3S	10mm	27-34	3,86
3815336	BTKV50BKM50120M	KM50	50	120	118,5	KM50PKG3S	10mm	27-34	4,54
3815337	BTKV50BKM63080M	KM63	63	80	78,5	KM63PKG3S	12mm	47-54	4,22
3815338	BTKV50BKM63140M	KM63	63	140	138,5	KM63PKG3S	12mm	47-54	5,55
3815339	BTKV50BKM80090M	KM80	80	90	88,5	KM80PKG3S	14mm	79-85	5,00

NOTE: Do not overtorque actuation screw; use torque recommendations above.
Supplied with KM actuation mechanism.
For retention knobs, see page J33.
These products are only available in the U.S., Canada, and Japan.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

- Machinable front 20–30 RW C.



BTKV50 Shank Tools

ERICKSON

■ BB-BTKV Form B/AD

order number	catalog number	D2	L1	L1FC	kg
3830226	BTKV50BB104350M	104	350	348,5	24,37
3830227	BTKV50BB134250M	134	250	248,5	26,58

NOTE: For retention knobs, see page J33.

Erickson™ Taper Face Contact Shank Tooling System • CVKV40 Series

Erickson Taper Face CV Contact Taper Tooling is manufactured from premium materials and to the latest ANSI B5.50 specification standard. Controlled, increased flange thickness to the rear of the flange gains face contact between spindle and holder. The CVKV40 tools are prebalanced to a high specification that will perform effectively up to 20,000 RPM. For any applications higher than 20,000 RPM, WIDIA™ recommends that the complete toolholder assembly (toolholder, retention knobs, collets, hardware, and cutting tools) be balanced as one identity.



CVKV40

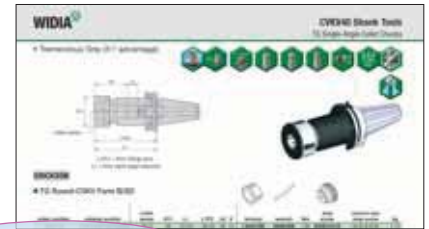
- ANSI B5.50 7/24 taper.
- Standard 5/8-11 drawbar thread.
- High axial repeatability due to face contact.
- High radial positioning due to controlled, tighter drive key widths.
- All tools set to form AD coolant specification. Many can be converted to form B style.
- Maximum 20,000 RPM.
- Maximum 100 bar (1,500 psi) coolant pressure.



Drive key slots are unequal depths. Detent hole identifies shallow drive key slot.

How Do Catalog Numbers Work?

Each character in our catalog number signifies a specific trait of that product. Use the following key columns and corresponding images to easily identify which attributes apply.



CVKV

Shank
Style

ANSI B5.50
Face Contact

40

Shank
Taper
Size

40 = 40
50 = 50

B

Special Feature
(optional)

B =
DIN form B coolant feature,
tool shipped to AD
specification
(design allows conversion
to form B style)

(blank) =
(no "B" or "Z") — tool built
to form A/AD coolant style

HPV =
High performance and
balanceable

TD =
Tunable

TG

Toolholder
Style

50

Toolholder
Size

100

Tool
Length

(Gage line
on taper to
front of tool)

inch
xxx = x.xx

M

Identification
Value

M =
Tool built to metric values and has
metric retention thread

- BB** = Bar blank
- EM** = End mill adapter
- ER** = DIN 6499 single-angle collet chuck
- KM** = KM™ adapter
- SM2C** = Shell mill adapter with coolant and small diameter
- SMC** = Shell mill adapter with coolant
- TG** = Tremendous Grip single-angle collet chuck
- TT** = Shrink Fit thermo toolholder
- TTHT** = Shrink Fit thermo toolholder — high torque

TG =
Collet series xx (50), xxx (100)

EM =
I.D. size: metric — xx = xx, (20);
inch — xxx = x.xx, (075)

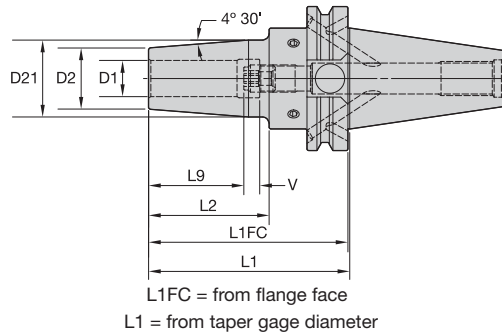
SM =
O.D. size: metric — xx = xx, (20);
inch — xxx = x.xx, (075)

CVKV40 Shank Tools

Shrink Fit Toolholders General Purpose (GP)



- Balanceable — fine tune with optional M6 set screws.
- Suitable for carbide and HSS cutting tools (requirements below).



Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
6	h6	0,000/-0,008
8 & 10	h6	0,000/-0,009
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

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■ TT GP HPV MM-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	kg
3860164	CVKV40BHPVTT06M350	6	21	26,90	88,90	87,90	53,15	26	10	TTSS05014M	2,5mm	1,18
3860165	CVKV40BHPVTT08M350	8	21	26,90	88,90	87,90	53,15	26	10	TTSS06014M	3mm	1,18
3860166	CVKV40BHPVTT10M350	10	24	31,00	88,90	87,90	53,15	31	10	TTSS08014M	4mm	1,22
3860167	CVKV40BHPVTT12M350	12	24	31,00	88,90	87,90	53,15	36	10	TTSS10014M	5mm	1,21
3860168	CVKV40BHPVTT14M350	14	27	33,90	88,90	87,90	53,15	36	10	TTSS10014M	5mm	1,25
3860169	CVKV40BHPVTT16M350	16	27	33,90	88,90	87,90	53,15	39	10	TTSS12014M	6mm	1,22
3860170	CVKV40BHPVTT18M400	18	33	44,45	101,60	100,60	82,55	39	10	TTSS12014M	6mm	1,47
3860171	CVKV40BHPVTT20M400	20	33	44,45	101,60	100,60	82,55	41	10	TTSS16014M	8mm	1,43
3860172	CVKV40BHPVTT25M400	25	44	52,90	101,60	100,60	82,55	47	10	TTSS16014M	8mm	1,73
3860173	CVKV40BHPVTT32M400	32	44	52,90	101,60	100,60	82,55	51	10	TTSS16014M	8mm	1,56

(continued)



(TT GP HPV CVKV Form B/AD continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/4, 5/16, & 3/8	-.0001/- .0004
7/16, 1/2, 9/16, 5/8, & 11/16	.0000/- .0004
3/4, 7/8, 1, & 1-1/4	.0000/- .0005

■ TT GP HPV IN-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	lbs
3860008	CVKV40BHPVTT025350	1/4	.83	1.06	3.50	3.46	2.09	1.02	.39	TTSS05014M	2,5mm	2.61
3860009	CVKV40BHPVTT031350	5/16	.83	1.06	3.50	3.46	2.09	1.02	.39	TTSS06014M	3mm	2.59
3860010	CVKV40BHPVTT038375	3/4	.94	1.26	3.75	3.71	2.34	1.22	.39	TTSS08014M	4mm	2.78
3860011	CVKV40BHPVTT044375	7/16	.94	1.26	3.75	3.71	2.34	1.42	.39	TTSS10014M	5mm	2.75
3860012	CVKV40BHPVTT050375	1/2	.94	1.26	3.75	3.71	2.34	1.42	.39	TTSS10014M	5mm	2.73
3860013	CVKV40BHPVTT056375	9/16	1.06	1.33	3.75	3.71	2.34	1.42	.39	TTSS10014M	5mm	2.84
3860014	CVKV40BHPVTT062375	5/8	1.06	1.33	3.75	3.71	2.34	1.54	.39	TTSS12014M	6mm	2.79
3860015	CVKV40BHPVTT068400	11/16	1.30	1.75	4.00	3.96	3.25	1.54	.39	TTSS12014M	6mm	3.25
3860016	CVKV40BHPVTT075400	3/4	1.30	1.75	4.00	3.96	3.25	1.61	.39	TTSS12014M	8mm	3.17
3860017	CVKV40BHPVTT088400	7/8	1.30	1.75	4.00	3.96	3.25	1.61	.39	TTSS16014M	8mm	3.09
3860018	CVKV40BHPVTT100400	1	1.73	2.08	4.00	3.96	3.25	1.85	.39	TTSS16014M	8mm	3.79
3860019	CVKV40BHPVTT125400	1 1/4	1.73	2.08	4.00	3.96	3.25	2.01	.39	TTSS16014M	8mm	3.46

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.

Shrink Fit technical section, see page K56.

Supplied with stop screw.

Adjusting stop screw gage, see page K59.

Optional M6~1.0P x 5mm lg fine-balancing screw set (10 pieces) is available. Order number is MS1276PKG and must be ordered separately.

For retention knobs, see page J33.

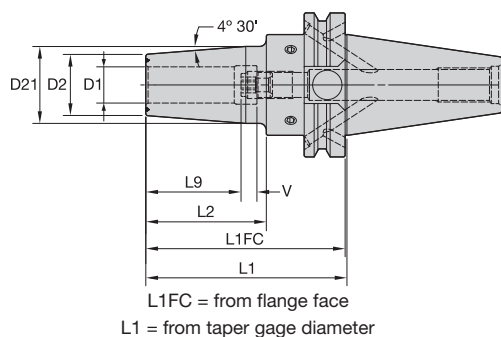
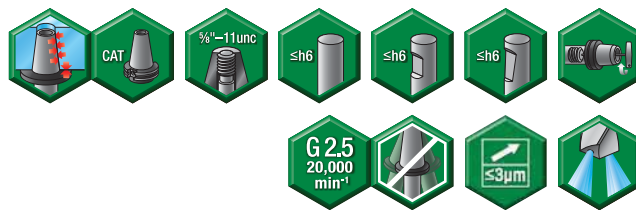
Form AD						
Form B				40	(2x) MS2221S	2,5mm
				50	(2x) MS1296S	3mm

CVKV40 Shank Tools

Shrink Fit Toolholders High Torque (HT)



- 30–50% higher clamping torque compared to GP line.
- Balanceable — fine tune with optional M6 set screws.
- Suitable for carbide only, designated by groove in front face (requirements below).
- 10 kW power or greater Shrink Fit device must be used.



Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

ERICKSON

■ TT HT HPV MM-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	kg
3860147	CVKV50BHPVTT06M350	6	21	26,90	88,90	87,40	53,15	26	10	TTSS05014M	2,5mm	3,17
3860148	CVKV50BHPVTT08M350	8	21	26,90	88,90	87,40	53,15	26	10	TTSS06014M	3mm	3,17
3860149	CVKV50BHPVTT10M375	10	24	31,90	95,25	93,75	59,50	31	10	TTSS08014M	4mm	3,25
3860150	CVKV50BHPVTT12M400	12	24	31,90	101,60	100,10	65,85	36	10	TTSS10014M	5mm	3,27
3860152	CVKV50BHPVTT16M400	16	27	33,90	101,60	100,10	65,85	39	10	TTSS12014M	6mm	3,29
3860154	CVKV50BHPVTT20M400	20	33	41,90	101,60	100,10	65,85	41	10	TTSS16014M	8mm	3,42

(continued)

(TT HT HPV CVKV Form B/AD continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/4 & 5/16	.0000/- .0004
7/16, 1/2, 9/16, 5/8, & 11/16	.0000/- .0004
3/4, 7/8, 1, & 1-1/4	.0000/- .0005

■ TT HT HPV IN-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	lbs
3860008	CVKV40BHPVTT025350	1/4	.83	1.06	3.50	3.46	2.09	1.02	.39	TTSS05014M	2,5mm	2.61
3860009	CVKV40BHPVTT031350	5/16	.83	1.06	3.50	3.46	2.09	1.02	.39	TTSS06014M	3mm	2.59
3860010	CVKV40BHPVTT038375	3/4	.94	1.26	3.75	3.71	2.34	1.22	.39	TTSS08014M	4mm	2.78
3860011	CVKV40BHPVTT044375	7/16	.94	1.26	3.75	3.71	2.34	1.42	.39	TTSS10014M	5mm	2.75
3860012	CVKV40BHPVTT050375	1/2	.94	1.26	3.75	3.71	2.34	1.42	.39	TTSS10014M	5mm	2.73
3860013	CVKV40BHPVTT056375	9/16	1.06	1.33	3.75	3.71	2.34	1.42	.39	TTSS10014M	5mm	2.84
3860014	CVKV40BHPVTT062375	5/8	1.06	1.33	3.75	3.71	2.34	1.54	.39	TTSS12014M	6mm	2.79
3860015	CVKV40BHPVTT068400	11/16	1.30	1.75	4.00	3.96	3.25	1.54	.39	TTSS12014M	6mm	3.25
3860016	CVKV40BHPVTT075400	3/4	1.30	1.75	4.00	3.96	3.25	1.61	.39	TTSS16014M	8mm	3.17
3860017	CVKV40BHPVTT088400	7/8	1.30	1.75	4.00	3.96	3.25	1.61	.39	TTSS16014M	8mm	3.09
3860018	CVKV40BHPVTT100400	1	1.73	2.08	4.00	3.96	3.25	1.85	.39	TTSS16014M	8mm	3.79
3860019	CVKV40BHPVTT125400	1 1/4	1.73	2.08	4.00	3.96	3.25	2.01	.39	TTSS16014M	8mm	3.46

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.

Shrink Fit technical section, see page K56.

Supplied with stop screw.

Adjusting stop screw gage, see page K59.

Optional M6~1.0P x 5mm lg fine-balancing screw set (10 pieces) is available. Order number is MS1276PKG and must be ordered separately.

For retention knobs, see page J33.

Form AD						
Form B				40	(2x) MS2221S	2,5mm
				50	(2x) MS1296S	3mm

WIDIA™ is pleased to announce the new
VariDrill™ for a wide range of materials.

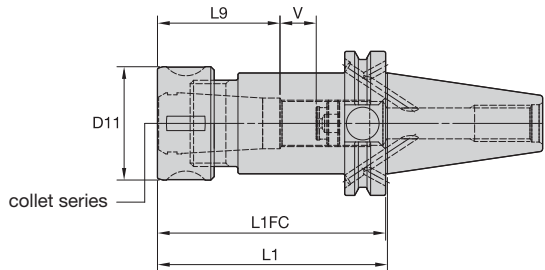
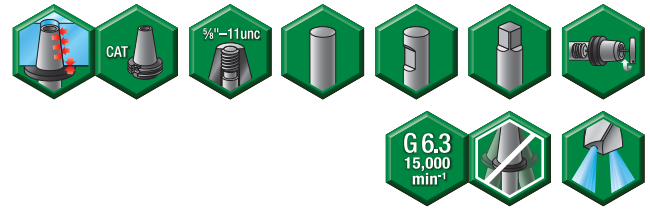


*The VariDrill line is available as
non-coolant drills in 3 x D and 5 x D,
coolant drills in 3 x D, 5 x D, and 8 x D.
"A" and "F" shanks available.*

The most extensive solid carbide drill line on the market today.

WIDIA™ VARIDRILL™

- Tremendous Grip (3:1 advantage).



L1FC = from flange face
L1 = from taper gage diameter



CVKV40 Shank Tools

TG collet series	Collet Capacity		mm		inch	
	min	max	min	max	min	max
TG75	2,6	20,0	3/64	3/4		
TG100	2,6	25,5	5/64	1		

ERICKSON

■ TG Round-CVKV Form B/AD



order number	catalog number	collet series	D11	L1	L1FC	L9	V	locknut	wrench	Nm	stop screw	wrench size stop screw	kg
3860134	CVKV40BTG075250G	TG75	50	63,50	62,50	50	13	LNA075M	HSW45M	136	SS081041G	4mm & 5/32	1,15
3860135	CVKV40BTG075400G	TG75	50	101,60	100,60	50	33	LNA075M	HSW45M	136	SS081041G	4mm & 5/32	1,55
3860136	CVKV40BTG075600G	TG75	50	152,40	151,40	50	93	LNA075M	HSW45M	136	SS081041G	4mm & 5/32	2,04
3860137	CVKV40BTG100275G	TG100	60	69,85	68,85	64	8	LNA100M	HSW58M	203	SS112041G	4mm & 5/32	1,27
3860138	CVKV40BTG100400G	TG100	60	101,60	100,60	64	24	LNA100M	HSW58M	203	SS112041G	4mm & 5/32	1,59
3860139	CVKV40BTG100600G	TG100	60	152,40	151,40	64	72	LNA100M	HSW58M	203	SS112041G	4mm & 5/32	2,69

NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.

Collet chuck technical section, see page K74.

Supplied with locknut and stop screw.

Locknut wrench must be ordered separately.

Interchangeable locknuts, coolant-style locknuts, and coolant disks are available and must be ordered separately; see page J6.

Stop screw coolant caps are available and must be ordered separately; see page J22.

Balanceable/interchangeable locknuts are available and must be ordered separately; see page J3.

TG standard straight-bore collets, see page I10.

TG tap collets, see page I10.

For retention knobs, see page J33.

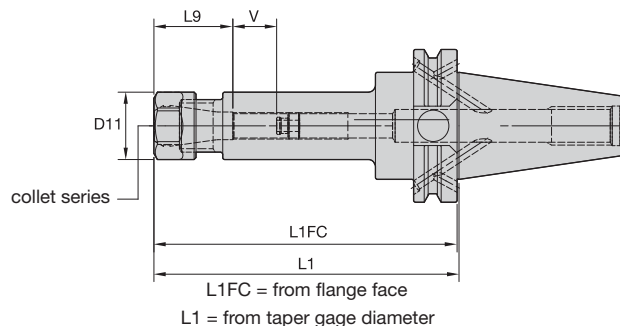
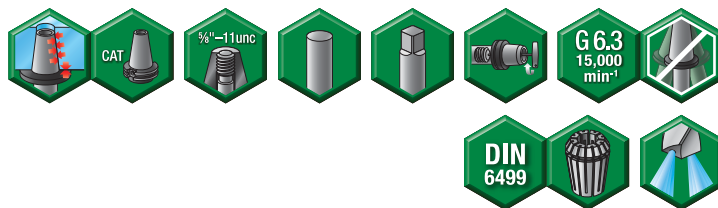
Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

CVKV40 Shank Tools

ER Single-Angle Collet Chucks



- Grip (2:1 advantage).



ERICKSON

■ ER Hex-CVKV Form B/AD

ER collet series	mm		inch	
	min	max	min	max
ER16	0,5	10,0	.02	.41
ER20	0,5	13,0	.02	.50
ER25	1,0	16,0	.04	.63
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

order number	catalog number	collet series	D11	L1	L1FC	L9	V	kg
3860218	CVKV40BER16250	ER16	28	63,5	62,5	32	33	1,07
3860220	CVKV40BER16500	ER16	28	127,0	126,0	32	38	1,31
3860221	CVKV40BER20250	ER20	34	63,5	62,5	36	26	1,07
3860222	CVKV40BER20600	ER20	34	152,4	151,4	36	44	1,60

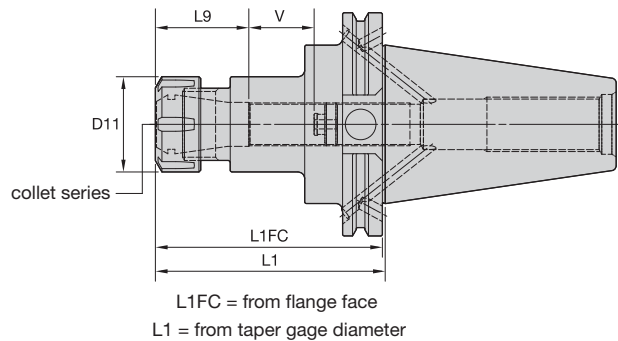
■ Spare Parts



catalog number	locknut	wrench	counterbore collet torque (Nm)	straight collet torque (Nm)	stop screw	wrench size stop screw
CVKV40BER16250	LNHSER16M	OEW25M	40	56	SS044038G	4mm & 5/32
CVKV40BER16500	LNHSER16M	OEW25M	40	56	SS044038G	4mm & 5/32
CVKV40BER20250	LNHSER20M	OEW30M	32	80	SS056041G	4mm & 5/32
CVKV40BER20600	LNHSER20M	OEW30M	32	80	SS056041G	4mm & 5/32

(continued)

(ER CVKV Form B/AD continued)



■ ER Round-CVKV Form B/AD

order number	catalog number	collet series	D11	L1	L1FC	L9	V	kg
3860223	CVKV40BER25250	ER25	42	63,5	62,5	40	16	1,09
3860224	CVKV40BER25600	ER25	42	152,4	151,4	40	60	1,89
3860225	CVKV40BER32275	ER32	50	69,9	68,9	46	11	1,13
3860226	CVKV40BER32600	ER32	50	152,4	151,4	46	54	1,95
3860227	CVKV40BER40300	ER40	63	76,2	75,2	52	7	1,27
3860228	CVKV40BER40600	ER40	63	152,4	151,4	52	48	2,03

■ Spare Parts

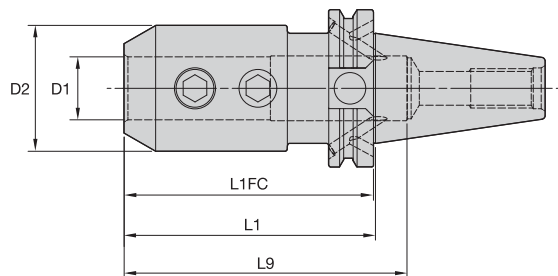


catalog number	locknut	wrench	Nm	stop screw	wrench size stop screw
CVKV40BER25250	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
CVKV40BER25600	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
CVKV40BER32275	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
CVKV40BER32600	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
CVKV40BER40300	LNSER40M	ER40WM	176	SS112041G	4mm & 5/32
CVKV40BER40600	LNSER40M	ER40WM	176	SS112041G	4mm & 5/32

NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.
 Collet chuck technical section, see page K74.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 ER standard straight-bore collets, see page I50.
 ER tap collets, see page I58.
 ER TCT tension-only tap collets, see page I60.
 For retention knobs, see page J33.

CVKV40 Shank Tools

End Mill Adapters



L1FC = from flange face
L1 = from taper gage diameter



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EM IN-CVKV Form B/AD

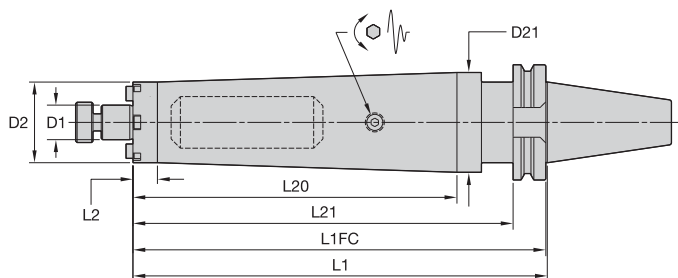


order number	catalog number	D1	D2	L1	L1FC	L2	lock screw	wrench size lock screw	ft. lbs.	lbs
3860087	CVKV40BEM012250	1/8	.69	2.50	2.46	1.09	S1045PKG	3/32	3	2.28
3860088	CVKV40BEM018250	3/16	.69	2.50	2.46	1.09	S1045PKG	3/32	3	2.28
3860089	CVKV40BEM025250	1/4	.78	2.50	2.46	1.09	ELS025025PKG	1/8	5	2.31
3860090	CVKV40BEM031250	5/16	1.00	2.50	2.46	1.09	ELS031031PKG	5/32	11	2.36
3860091	CVKV40BEM038250	3/8	1.00	2.50	2.46	1.09	ELS038031PKG	3/16	15	2.36
3860092	CVKV40BEM044250	7/16	1.25	2.50	2.46	1.09	ELS044038PKG	7/32	20	2.47
3860123	CVKV40BEM050300	1/2	1.38	3.00	2.96	1.59	ELS044038PKG	7/32	20	2.66
3860124	CVKV40BEM050450	1/2	1.38	4.50	4.46	3.09	ELS044038PKG	7/32	20	3.20
3860125	CVKV40BEM062300	5/8	1.63	3.00	2.96	1.59	ELS056050PKG	1/4	40	2.81
3860126	CVKV40BEM062450	5/8	1.63	4.50	4.46	3.09	ELS056050PKG	1/4	40	3.59
3860127	CVKV40BEM075300	3/4	1.75	3.00	2.96	2.25	ELS062050PKG	5/16	70	2.77
3860128	CVKV40BEM075450	3/4	1.75	4.50	4.46	3.75	ELS062050PKG	5/16	70	3.70
3860129	CVKV40BEM088400	7/8	2.00	4.00	3.96	3.25	ELS062050PKG	5/16	70	3.47
3860130	CVKV40BEM100400	1	2.00	4.00	3.96	3.25	ELS075056PKG	3/8	110	3.43
3860131	CVKV40BEM125450	1 1/4	2.50	4.50	4.46	3.75	ELS075062PKG	3/8	110	5.09
3860132	CVKV40BEM150500	1 1/2	2.75	5.00	4.96	5.00	ELS075069PKG	3/8	110	6.08

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.
For retention knobs, see page J33.

Form AD						
Form B				40	(2x) MS2221S	2,5mm
				50	(2x) MS1296S	3mm





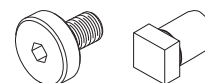
L1FC = from flange face
L1 = from taper gage diameter



CVKV40 Shank Tools

ERICKSON

■ SMC TD Lock IN-CVKV Form B/AD

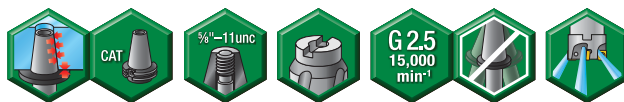
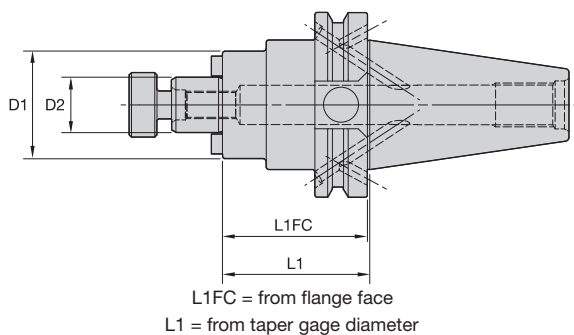


order number	catalog number	D1	D2	D21	L1	L1FC	L2	L20	L21	lock screw	drive key	wrench size lock screw	lbs
4135497	CVKV40BTDSMC0750900	.750	1.750	2.165	9.000	8.961	.531	7.031	8.250	KLS07	KDK05	1/4	8.39
4135498	CVKV40BTDSMC1000900	1.000	2.189	—	9.000	8.961	8.250	—	—	KLS10	KDK06	5/16	10.03

NOTE: Do not overtighten lock screw.
Supplied with lock screw and drive keys.
Interchangeable coolant-style lock screws are available and must be ordered separately; see page J26.
Lock screw wrench not included.
For retention knob, see page J33.

CVKV40 Shank Tools

Shell Mill Adapters with Through Coolant



ERICKSON

■ SMC TD Lock IN-CVKV Form B/AD

order number	catalog number	D1	D2	L1	L1FC	lock screw	drive key	wrench size retention screw	lbs
3870017	CVKV40BSM2C050200	1/2	1.20	2.000	1.961	KLS05	KDK04	3/16	2.46
3870019	CVKV40BSM2C050400	1/2	1.20	4.000	3.961	KLS05	KDK04	3/16	2.99
3870016	CVKV40BSMC050200	1/2	1.44	2.000	1.961	KLS05	KDK04	3/16	2.51
3870018	CVKV40BSMC050400	1/2	1.44	4.000	3.961	KLS05	KDK04	3/16	3.30
3870021	CVKV40BSM2C075200	3/4	1.46	2.000	1.961	KLS07	—	1/4	2.55
3870023	CVKV40BSM2C075400	3/4	1.46	4.000	3.961	KLS07	—	1/4	3.37
3870025	CVKV40BSM2C075600	3/4	1.46	6.000	5.961	KLS07	—	1/4	4.19
3870020	CVKV40BSMC075200	3/4	1.75	2.000	1.961	KLS07	KDK05	1/4	2.68
3870022	CVKV40BSMC075400	3/4	1.75	4.000	3.961	KLS07	KDK05	1/4	3.91
3870024	CVKV40BSMC075600	3/4	1.75	6.000	5.961	KLS07	KDK05	1/4	5.15
3870027	CVKV40BSM2C100200	1	2.19	2.000	1.961	KLS10	KDK06	5/16	3.00
3870029	CVKV40BSM2C100400	1	2.19	4.000	3.961	KLS10	KDK06	5/16	4.33
3870031	CVKV40BSM2C100600	1	2.19	6.000	5.961	KLS10	KDK06	5/16	5.62
3870026	CVKV40BSMC100200	1	2.75	2.000	1.961	KLS10	KDK06	5/16	3.31
3870028	CVKV40BSMC100400	1	2.75	4.000	3.961	KLS10	KDK06	5/16	4.78
3870030	CVKV40BSMC100600	1	2.75	6.000	5.961	KLS10	KDK06	5/16	6.07
3870032	CVKV40BSMC125200	1 1/4	2.88	2.000	1.961	KLS12	KDK08	5/16	3.98
3870033	CVKV40BSMC125400	1 1/4	2.88	4.000	3.961	KLS12	KDK08	5/16	5.22
3870034	CVKV40BSMC150250	1 1/2	3.81	2.500	2.461	KLS15	KDK10	3/8	5.60
3870035	CVKV40BSMC150400	1 1/2	3.81	4.000	3.961	KLS15	KDK10	3/8	6.86

NOTE: Do not overtighten lock screw; use torque recommendations above.

Supplied with lock screw and drive keys.

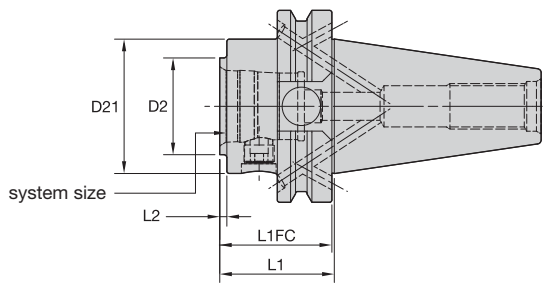
Interchangeable coolant-style lock screws are available and must be ordered separately; see page J26.

Lock screw wrench not included.

For retention knobs, see page J33.

Form AD					
Form B				40 (2x) MS2221S	2,5mm
				50 (2x) MS1296S	3mm





L1FC = from flange face
L1 = from taper gage diameter

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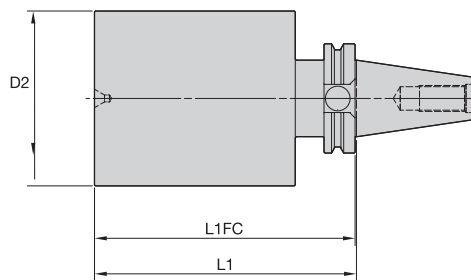
■ **KM-CVKV Form B/AD**

order number	catalog number	system size	D2	D21	L1	L1FC	L2	KM spare parts package	wrench size actuation screw	Nm	kg
3815241	CVKV40BKM32150	KM32	32	44,5	38,1	37,1	2,4	KM32PKG3L	5mm	8-11	1,00
3815242	CVKV40BKM32350	KM32	32	44,5	88,9	87,9	53,2	KM32PKG3S	5mm	8-11	1,27
3815313	CVKV40BKM40175	KM40	40	44,5	44,5	43,5	7,7	KM40PKG3S	6mm	12-16	1,03
3815314	CVKV40BKM40400	KM40	40	44,5	101,6	100,6	65,9	KM40PKG3S	6mm	12-16	1,53
3815315	CVKV40BKM50350	KM50	50	44,5	88,9	87,9	69,9	KM50PKG3S	10mm	27-34	1,60
3815316	CVKV40BKM50475	KM50	50	44,5	120,7	119,7	101,6	KM50PKG3S	10mm	27-34	1,95

NOTE: Do not overtorque actuation screw; use torque recommendations above.
Supplied with KM actuation mechanism.
For retention knobs, see page J33.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

- Machinable front 20–30 RW C.



L1FC = from flange face
L1 = from taper gage diameter

ERICKSON

■ **BB-CVKV Form A**

order number	catalog number	D2	L1	L1FC	kg
3815310	CVKV40BB400600	101,6	152,4	151,4	8,46
3815311	CVKV40BB400120	101,6	304,8	303,8	18,14

NOTE: For retention knobs, see page J33.



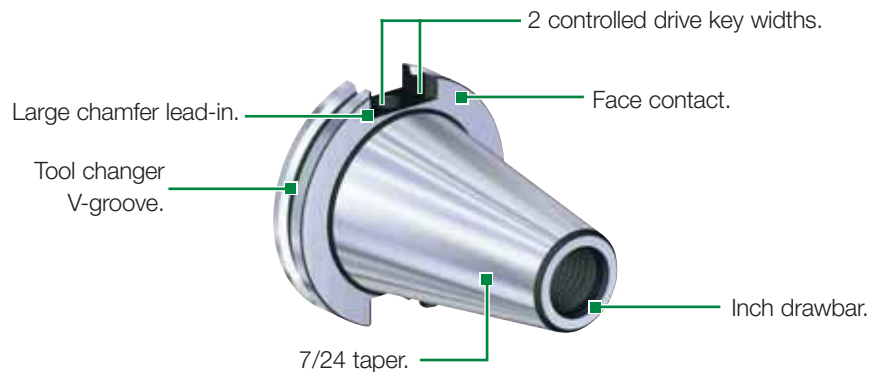
CVKV40 Shank Tools



Erickson™ Taper Face Contact Shank Tooling System • **CVKV50 Series**

Erickson Taper Face CV Contact Taper Tooling is manufactured from premium materials and to the latest ANSI B5.50 specification standard. Controlled, increased flange thickness to the rear of the flange gains face contact between spindle and holder.

CVKV50



Drive key slots are unequal depths. Detent hole identifies shallow drive key slot.

The CVKV50 tools are prebalanced to a high specification that will perform effectively up to 20,000 RPM. For any applications higher than 20,000 RPM, WIDIA™ recommends that the complete toolholder assembly (toolholder, retention knobs, collets, hardware, and cutting tools) be balanced as one identity.



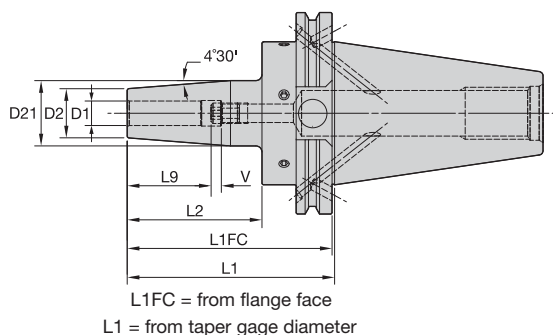
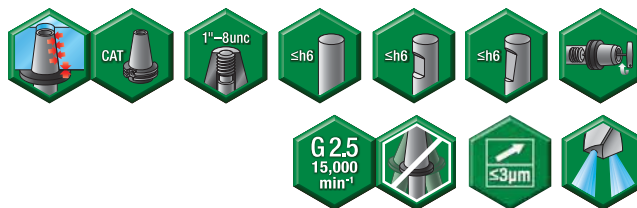
- ANSI B5.50 7/24 taper.
- Standard 1-8 drawbar thread.
- High axial repeatability due to face contact.
- High radial positioning due to controlled, tighter drive key widths.
- All tools set to form AD coolant specification. Many can be converted to form B style.
- Maximum 20,000 RPM.
- Maximum 100 bar (1,500 psi) coolant pressure.

CVKV50 Shank Tools

Shrink Fit Toolholders General Purpose (GP)



- Balanceable — fine tune with optional M6 set screws.
- Suitable for carbide and HSS cutting tools (requirements below).



Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
6	h6	0,000/-0,008
8 & 10	h6	0,000/-0,009
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

ERICKSON

■ TT GP HPV MM-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	kg
3860147	CVKV50BHPVTT06M350	6	21	27	88,90	87,40	53,15	26	10	TTSS05014M	2,5mm	3,17
3860148	CVKV50BHPVTT08M350	8	21	27	88,90	87,40	53,15	26	10	TTSS06014M	3mm	3,17
3860149	CVKV50BHPVTT10M375	10	24	32	95,25	93,75	59,50	31	10	TTSS08014M	4mm	3,25
3860150	CVKV50BHPVTT12M400	12	24	32	101,60	100,10	65,85	36	10	TTSS10014M	5mm	3,27
3860151	CVKV50BHPVTT14M400	14	27	34	101,60	100,10	65,85	36	10	TTSS10014M	5mm	3,32
3860152	CVKV50BHPVTT16M400	16	27	34	101,60	100,10	65,85	39	10	TTSS12014M	6mm	3,29
3860153	CVKV50BHPVTT18M400	18	33	42	101,60	100,10	65,85	39	10	TTSS12014M	6mm	3,46
3860154	CVKV50BHPVTT20M400	20	33	42	101,60	100,10	65,85	41	10	TTSS16014M	8mm	3,42
3860155	CVKV50BHPVTT25M400	25	44	53	101,60	100,10	65,85	47	10	TTSS16014M	8mm	3,72
3860156	CVKV50BHPVTT32M400	32	44	53	101,60	100,10	65,85	51	10	TTSS16014M	8mm	3,56

(continued)



(TT GP HPV CVKV Form B/AD continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/4, 5/16, & 3/8	-.0001/- .0004
7/16, 1/2, 9/16, 5/8, & 11/16	.0000/- .0004
3/4, 7/8, 1, 1-1/4, 1-1/2, & 2	.0000/- .0005

■ TT GP HPV IN-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	lbs
3860047	CVKV50BHPVTT025350	1/4	.83	1.06	3.500	3.441	2.093	1.02	.39	TTSS05014M	2,5mm	6.99
3860048	CVKV50BHPVTT031350	5/16	.83	1.06	3.500	3.441	2.093	1.02	.39	TTSS06014M	3mm	6.98
3860049	CVKV50BHPVTT038375	3/8	.94	1.26	3.750	3.691	2.343	1.22	.39	TTSS08014M	4mm	7.17
3860050	CVKV50BHPVTT044375	7/16	.94	1.26	3.750	3.691	2.343	1.42	.39	TTSS10014M	5mm	7.14
3860051	CVKV50BHPVTT050400	1/2	.94	1.26	4.000	3.941	2.593	1.42	.39	TTSS10014M	5mm	7.20
3860052	CVKV50BHPVTT056400	9/16	1.06	1.33	4.000	3.941	2.593	1.42	.39	TTSS10014M	5mm	7.31
3860093	CVKV50BHPVTT062400	5/8	1.06	1.33	4.000	3.941	2.593	1.54	.39	TTSS12014M	6mm	7.26
3860094	CVKV50BHPVTT068400	11/16	1.30	1.65	4.000	3.941	2.593	1.54	.39	TTSS12014M	6mm	7.63
3860095	CVKV50BHPVTT075400	3/4	1.30	1.65	4.000	3.941	2.593	1.61	.39	TTSS16014M	8mm	7.56
3860096	CVKV50BHPVTT088400	7/8	1.30	1.65	4.000	3.941	2.593	1.61	.39	TTSS16014M	8mm	7.47
3860097	CVKV50BHPVTT100400	1	1.73	2.08	4.000	3.941	2.593	1.85	.39	TTSS16014M	8mm	8.18
3860098	CVKV50BHPVTT125400	1 1/4	1.73	2.08	4.000	3.941	2.593	2.01	.39	TTSS16014M	8mm	7.86
3860099	CVKV50BHPVTT150450	1 1/2	2.36	2.75	4.500	4.441	3.750	2.01	.39	TTSS20014M	10mm	9.88
3860100	CVKV50BHPVTT200450	2	2.72	3.11	4.500	4.441	3.750	2.20	.39	TTSS20014M	10mm	10.15

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.

Shrink Fit technical section, see page K56.

Supplied with stop screw.

Adjusting stop screw gage, see page K59.

Optional M6~1.0P x 5mm lg fine-balancing screw set (10 pieces) is available. Order number is MS1276PKG and must be ordered separately.

For retention knobs, see page J33.

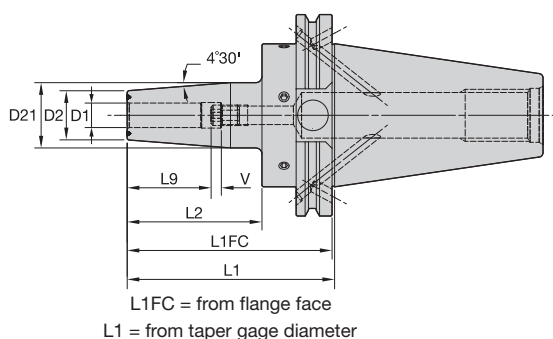
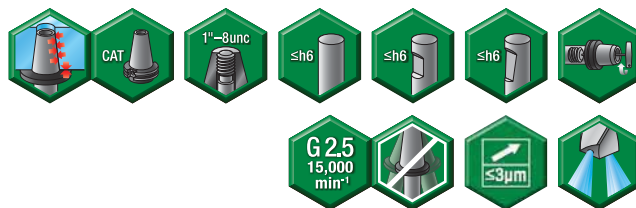
Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

CVKV50 Shank Tools

Shrink Fit Toolholders High Torque (HT)



- 30–50% higher clamping torque compared to GP line.
- Balanceable — fine tune with optional M6 set screws.
- Suitable for carbide only, designated by groove in front face (requirements below).
- 10 kW power or greater Shrink Fit device must be used.



Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
6	h6	0,000/-0,008
8 & 10	h6	0,000/-0,009
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

ERICKSON

■ TT HT HPV MM-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	kg
3860147	CVKV50BHPVTT06M350	6	21	26,90	88,90	87,40	53,15	26	10	TTSS05014M	2,5mm	3,17
3860148	CVKV50BHPVTT08M350	8	21	26,90	88,90	87,40	53,15	26	10	TTSS06014M	3mm	3,17
3860149	CVKV50BHPVTT10M375	10	24	31,90	95,25	93,75	59,50	31	10	TTSS08014M	4mm	3,25
3860150	CVKV50BHPVTT12M400	12	24	31,90	101,60	100,10	65,85	36	10	TTSS10014M	5mm	3,27
3860151	CVKV50BHPVTT14M400	14	27	33,90	101,60	100,10	65,85	36	10	TTSS10014M	5mm	3,32
3860152	CVKV50BHPVTT16M400	16	27	33,90	101,60	100,10	65,85	39	10	TTSS12014M	6mm	3,29
3860153	CVKV50BHPVTT18M400	18	33	41,90	101,60	100,10	65,85	39	10	TTSS12014M	6mm	3,46
3860154	CVKV50BHPVTT20M400	20	33	41,90	101,60	100,10	65,85	41	10	TTSS16014M	8mm	3,42
3860155	CVKV50BHPVTT25M400	25	44	52,90	101,60	100,10	65,85	47	10	TTSS16014M	8mm	3,72
3860156	CVKV50BHPVTT32M400	32	44	52,90	101,60	100,10	65,85	51	10	TTSS16014M	8mm	3,56

(continued)

(TT HT HPV CVKV Form B/AD continued)

Cutting Tool Shank Requirements

inch (industry standard)	
cutting tool shank diameters	tolerance
1/4, 5/16, & 3/8	-.0001/-0.0004
7/16, 1/2, 9/16, 5/8, & 11/16	.0000/-0.0004
3/4, 7/8, 1, 1-1/4, 1-1/2, & 2	.0000/-0.0005

■ TT HT HPV In-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L9	V	stop screw	wrench size stop screw	lbs
3860047	CVKV50BHPVTT025350	1/4	.83	1.059	3.500	3.441	2.093	1.02	.39	TTSS05014M	2,5mm	6.99
3860048	CVKV50BHPVTT031350	5/16	.83	1.059	3.500	3.441	2.093	1.02	.39	TTSS06014M	3mm	6.98
3860049	CVKV50BHPVTT038375	3/8	.94	1.256	3.750	3.691	2.343	1.22	.39	TTSS08014M	4mm	7.17
3860050	CVKV50BHPVTT044375	7/16	.94	1.256	3.750	3.691	2.343	1.42	.39	TTSS10014M	5mm	7.14
3860051	CVKV50BHPVTT050400	1/2	.94	1.256	4.000	3.941	2.593	1.42	.39	TTSS10014M	5mm	7.20
3860052	CVKV50BHPVTT056400	9/16	1.06	1.335	4.000	3.941	2.593	1.42	.39	TTSS10014M	5mm	7.31
3860093	CVKV50BHPVTT062400	5/8	1.06	1.335	4.000	3.941	2.593	1.54	.39	TTSS12014M	6mm	7.26
3860094	CVKV50BHPVTT068400	11/16	1.30	1.650	4.000	3.941	2.593	1.54	.39	TTSS12014M	6mm	7.63
3860095	CVKV50BHPVTT075400	3/4	1.30	1.650	4.000	3.941	2.593	1.61	.39	TTSS16014M	8mm	7.56
3860096	CVKV50BHPVTT088400	7/8	1.30	1.650	4.000	3.941	2.593	1.61	.39	TTSS16014M	8mm	7.47
3860097	CVKV50BHPVTT100400	1	1.73	2.083	4.000	3.941	2.593	1.85	.39	TTSS16014M	8mm	8.18
3860098	CVKV50BHPVTT125400	1 1/4	1.73	2.083	4.000	3.941	2.593	2.01	.39	TTSS16014M	8mm	7.86
3860099	CVKV50BHPVTT150450	1 1/2	2.36	2.750	4.500	4.441	3.750	2.01	.39	TTSS20014M	10mm	9.88
3860100	CVKV50BHPVTT200450	2	2.72	3.106	4.500	4.441	3.750	2.20	.39	TTSS20014M	10mm	10.15

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder

Shrink Fit technical section, see page K56.

Supplied with stop screw.

Adjusting stop screw gage, see page K59.

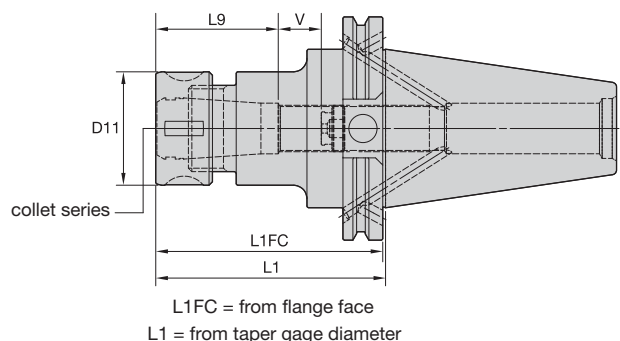
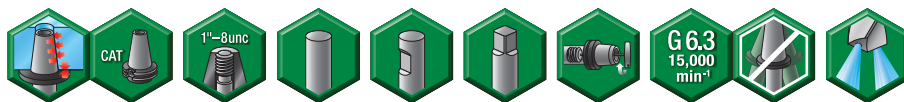
Optional M6~1.0P x 5mm lg fine-balancing screw set (10 pieces) is available. Order number is MS1276PKG and must be ordered separately.

For retention knobs, see page J33.

Form AD						
Form B						
		40	(2x) MS2221S	2,5mm		
		50	(2x) MS1296S	3mm		

CVKV50 Shank Tools

TG Single-Angle Collet Chucks



CVKV50 Shank Tools

ERICKSON™

■ TG Round-CVKV Form B/AD



order number	catalog number	collet series											Nm	kg
			D11	L1	L1FC	L9	V	locknut	wrench	stop screw	wrench size	stop screw		
3860140	CVKV50BTG075275G	TG75	50	69,85	68,35	50	24	LNA075M	HSW45M	SS081041G	4mm & 5/32	136	3,26	
3860143	CVKV50BTG100275G	TG100	60	69,85	68,35	64	12	LNA100M	HSW58M	SS112041G	4mm & 5/32	203	3,26	
3860144	CVKV50BTG100400G	TG100	60	101,60	100,10	64	38	LNA100M	HSW58M	SS112041G	4mm & 5/32	203	3,81	
3860141	CVKV50BTG075400G	TG75	50	101,60	100,10	50	59	LNA075M	HSW45M	SS081041G	4mm & 5/32	136	3,70	
3860142	CVKV50BTG075600G	TG75	50	152,40	150,90	50	104	LNA075M	HSW45M	SS081041G	4mm & 5/32	136	4,46	
3860145	CVKV50BTG100600G	TG100	60	152,40	150,90	64	90	LNA100M	HSW58M	SS112041G	4mm & 5/32	203	4,71	

NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.

Collet chuck technical section, see page K74.

Supplied with locknut and stop screw.

Locknut wrench must be ordered separately.

Interchangeable locknuts, coolant-style locknuts, and coolant disks are available and must be ordered separately; see page J6.

Stop screw coolant caps are available and must be ordered separately; see page J22.

Balanceable/interchangeable locknuts are available and must be ordered separately; see page J3.

TG standard straight-bore collets, see page I10.

TG tap collets, see page I10.

For retention knobs, see page J33.

Form AD					
Form B					
		40	(2x) MS2221S	2,5mm	
		50	(2x) MS1296S	3mm	

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KMTM Quick Change

WIDIATM KM Quick Change Tooling is a central component in achieving dramatic improvement in machine and cutting tool use. It's the choice of manufacturers requiring maximum machine output.

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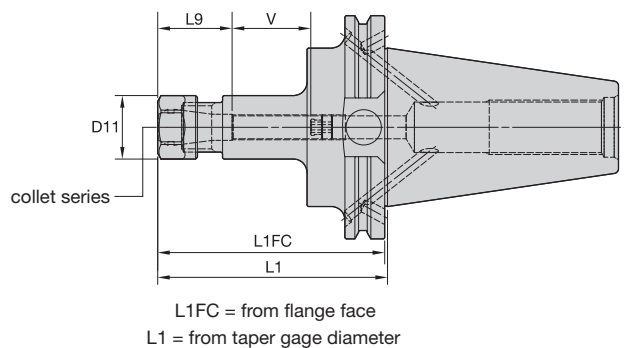
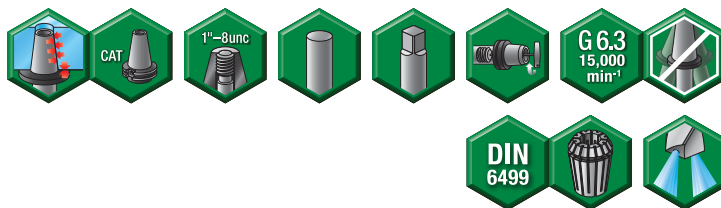
WIDIA 

CVKV50 Shank Tools

ER Single-Angle Collet Chucks



- Grip (2:1 advantage).



ER collet series	mm		inch	
	min	max	min	max
ER16	0,5	10,0	.02	.41
ER20	0,5	13,0	.02	.50
ER25	1,0	16,0	.04	.63
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

ERICKSON

■ ER Hex-CVKV Form B/AD

order number	catalog number	collet series	D11	L1	L1FC	L9	V	kg
3860229	CVKV50BER16250	ER16	28	63,50	62,00	32	43	3,14
3860230	CVKV50BER16400	ER16	28	101,60	100,10	32	38	3,22
3860231	CVKV50BER20250	ER20	34	63,50	62,00	36	42	3,15
3860232	CVKV50BER20400	ER20	34	101,60	100,10	36	54	3,35

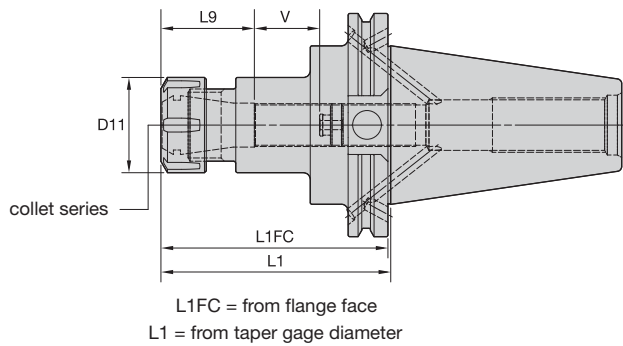
■ Spare Parts



catalog number	locknut	wrench	counterbore collet torque (Nm)	straight collet torque (Nm)	stop screw	wrench size stop screw
CVKV50BER16250	LNHSER16M	OEW25M	40	56	SS044038G	4mm & 5/32
CVKV50BER16400	LNHSER16M	OEW25M	40	56	SS044038G	4mm & 5/32
CVKV50BER20250	LNHSER20M	OEW30M	32	80	SS056041G	4mm & 5/32
CVKV50BER20400	LNHSER20M	OEW30M	32	80	SS056041G	4mm & 5/32

(continued)

(ER CVKV Form B/AD continued)



CVKV50 Shank Tools

■ ER Round-CVKV Form B/AD

order number	catalog number	collet series	D11	L1	L1FC	L9	V	kg
3860233	CVKV50BER25250	ER25	42	63,50	62,00	40	35	3,14
3860234	CVKV50BER25400	ER25	42	101,60	100,10	40	60	3,47
3860235	CVKV50BER32275	ER32	50	69,85	68,35	46	31	3,17
3860236	CVKV50BER32400	ER32	50	101,60	100,10	46	54	3,57
3860237	CVKV50BER40300	ER40	63	76,20	74,70	52	28	3,32
3860238	CVKV50BER40600	ER40	63	152,40	150,90	52	98	4,85

■ Spare Parts

catalog number	locknut	wrench	Nm	stop screw	wrench size stop screw
CVKV50BER25250	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
CVKV50BER25400	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
CVKV50BER32275	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
CVKV50BER32400	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
CVKV50BER40300	LNSER40M	ER40WM	176	SS112041G	4mm & 5/32
CVKV50BER40600	LNSER40M	ER40WM	176	SS112041G	4mm & 5/32

NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.
 Collet chuck technical section, see page K74.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 ER standard straight-bore collets, see page I50.
 ER tap collets, see page I58.
 ER TCT tension-only tap collets, see page I60.
 For retention knobs, see page J33.

Form AD	✓	✗	40	(2x) MS2221S	2,5mm
Form B	✗	✓	50	(2x) MS1296S	3mm

WIN WITH WIDIATM



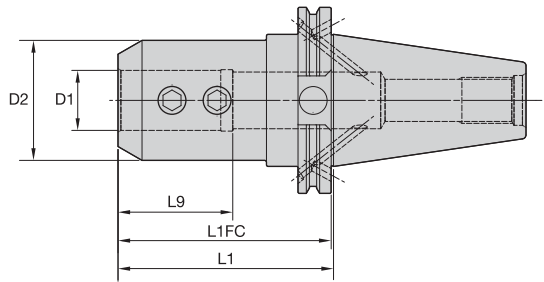
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Specifically engineered multilayer coating provides high-speed capability for finishing to roughing operations. New geometries enhance chip control for better tool life and superior surface finishes.

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L1FC = from flange face
L1 = from taper gage diameter



CVKV50 Shank Tools

ERICKSON

■ EM IN-CVKV Form B/AD



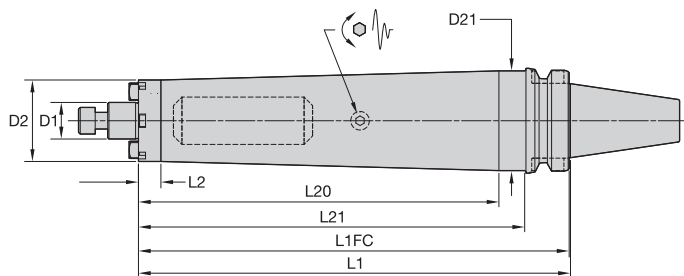
order number	catalog number	D1	D2	L1	L1FC	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
3860109	CVKV50BEM018250	3/16	.688	2.500	2.441	4.689	S1045PKG	3/32	3	6.66
3860110	CVKV50BEM025250	1/4	.780	2.500	2.441	4.689	ELS025025PKG	1/8	5	6.69
3860111	CVKV50BEM031250	5/16	1.000	2.500	2.441	4.689	ELS031031PKG	5/32	11	6.72
3860112	CVKV50BEM038250	3/8	1.000	2.500	2.441	4.689	ELS038031PKG	3/16	15	6.75
3860183	CVKV50BEM044250	7/16	1.250	2.500	2.441	4.689	ELS044038PKG	7/32	20	6.88
3860184	CVKV50BEM050300	1/2	1.375	3.000	2.941	5.189	ELS044038PKG	7/32	20	7.03
3860185	CVKV50BEM050450	1/2	1.375	4.500	4.441	6.689	ELS044038PKG	7/32	20	7.59
3860186	CVKV50BEM062300	5/8	1.625	3.000	2.941	5.189	ELS056050PKG	1/4	40	7.25
3860187	CVKV50BEM062450	5/8	1.625	4.500	4.441	6.689	ELS056050PKG	1/4	40	7.95
3860188	CVKV50BEM075300	3/4	1.750	3.000	2.941	5.189	ELS062050PKG	5/16	70	7.32
3860189	CVKV50BEM075450	3/4	1.750	4.500	4.441	6.689	ELS062050PKG	5/16	70	8.12
3860190	CVKV50BEM088400	7/8	2.000	4.000	3.941	4.190	ELS062050PKG	5/16	70	8.23
3860191	CVKV50BEM100450	1	2.000	4.500	4.441	4.493	ELS075056PKG	3/8	110	8.32
3860192	CVKV50BEM125450	1 1/4	2.500	4.500	4.441	2.390	ELS075062PKG	3/8	110	9.23
3860193	CVKV50BEM150450	1 1/2	2.750	4.500	4.441	2.820	ELS075069PKG	3/8	110	9.35
3860194	CVKV50BEM200600	2	3.750	6.000	5.941	3.375	ELS100088PKG	1/2	150	15.96

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.
For retention knobs, see page J33.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm

CVKV50 Shank Tools

Tunable Shell Mill Adapters with Through Coolant

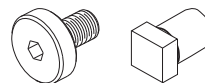


L1FC = from flange face
L1 = from taper gage diameter



ERICKSON

■ SMC TD Lock IN-CVKV Form B/AD



order number	catalog number	D1	D2	D21	L1	L1FC	L2	L20	L21	lock screw	drive key	wrench size lock screw	lbs
4135499	CVKV50BTDSMC0751050	3/4	1.75	2.75	10.500	10.441	.53	9.09	9.750	KLS07	KDK05	1/4	16.60
4135500	CVKV50BTDSMC1001250	1	2.75	—	12.500	12.441	11.75	—	—	KLS10	KDK06	5/16	24.68
4135501	CVKV50BTDSMC1251300	1 1/4	2.88	—	13.000	12.941	12.25	—	—	KLS12	KDK08	5/16	31.97

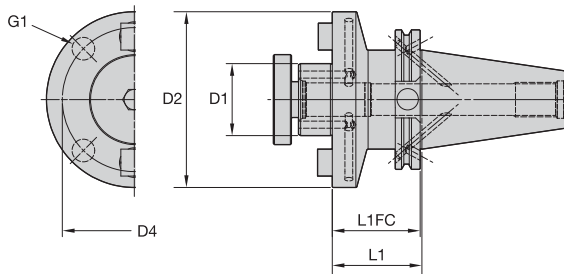
NOTE: Do not overtighten lock screw.

Supplied with lock screw and drive keys.

Interchangeable coolant-style lock screws are available and must be ordered separately; see page J26.

Lock screw wrench not included.

For retention knobs, see page J33.

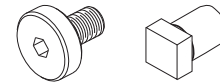


L1FC = from flange face
L1 = from taper gage diameter



ERICKSON

■ SMC Lock IN-CVKV Form B/AD



order number	catalog number	D1	D2	D4	G1	L1	L1FC	lock screw	drive key	wrench size retention screw	lbs
3861304	CVKV50BSM2C075200	3/4	1.46	—	—	2.000	1.941	KLS07	—	1/4	7.10
3861306	CVKV50BSM2C075400	3/4	1.46	—	—	4.000	3.941	KLS07	—	1/4	7.69
3861308	CVKV50BSM2C075600	3/4	1.46	—	—	6.000	5.941	KLS07	—	1/4	8.45
3861303	CVKV50BSMC075200	3/4	1.75	—	—	2.000	1.941	KLS07	KDK05	1/4	7.16
3861305	CVKV50BSMC075400	3/4	1.75	—	—	4.000	3.941	KLS07	KDK05	1/4	8.17
3861307	CVKV50BSMC075600	3/4	1.75	—	—	6.000	5.941	KLS07	KDK05	1/4	9.31
3861310	CVKV50BSM2C100200	1	2.19	—	—	2.000	1.941	KLS10	KDK06	5/16	7.35
3861312	CVKV50BSM2C100400	1	2.19	—	—	4.000	3.941	KLS10	KDK06	5/16	9.21
3861314	CVKV50BSM2C100600	1	2.19	—	—	6.000	5.941	KLS10	KDK06	5/16	11.06
3861309	CVKV50BSMC100200	1	2.75	—	—	2.000	1.941	KLS10	KDK06	5/16	7.71
3861311	CVKV50BSMC100400	1	2.75	—	—	4.000	3.941	KLS10	KDK06	5/16	10.80
3861313	CVKV50BSMC100600	1	2.75	—	—	6.000	5.941	KLS10	KDK06	5/16	13.89
3861315	CVKV50BSMC125200	1 1/4	2.88	—	—	2.000	1.941	KLS12	KDK08	5/16	8.02
3861316	CVKV50BSMC125400	1 1/4	2.88	—	—	4.000	3.941	KLS12	KDK08	5/16	11.06
3861317	CVKV50BSMC125600	1 1/4	2.88	—	—	6.000	5.941	KLS12	KDK08	5/16	14.09
3861318	CVKV50BSMC150250	1 1/2	3.81	—	—	2.500	2.441	KLS15	KDK10	3/8	10.31
3861319	CVKV50BSMC150400	1 1/2	3.81	—	—	4.000	3.941	KLS15	KDK10	3/8	12.60
3861320	CVKV50BSMC150600	1 1/2	3.81	—	—	6.000	5.941	KLS15	KDK10	3/8	15.68
3861321	CVKV50BSMC200250	2	4.88	4.00	0.625-11	2.500	2.441	KLS20	KDK12	9/16	12.38
3861322	CVKV50BSMC200400	2	4.88	4.00	0.625-11	4.000	3.941	KLS20	KDK12	9/16	15.02
3861323	CVKV50BSMC200600	2	4.88	4.00	0.625-11	6.000	5.941	KLS20	KDK12	9/16	18.20
3861324	CVKV50BSMC250250	2 1/2	4.88	4.00	0.625-11	2.500	2.441	—	KDK16	—	13.60
3861325	CVKV50BSMC250400	2 1/2	4.88	4.00	0.625-11	4.000	3.941	—	KDK16	—	15.88

NOTE: Do not overtighten lock screw.

Supplied with lock screw and drive keys.

Interchangeable coolant-style lock screws are available and must be ordered separately; see page J26.

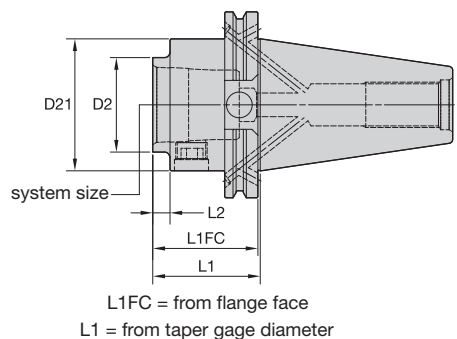
Lock screw wrench not included.

For retention knob, see page J33.

Form AD	✓	✗	✗	✗	✗
Form B	✗	✓	✓	40	(2x) MS2221S 2,5mm
				50	(2x) MS1296S 3mm

CVKV50 Shank Tools

KM™ Modular Adapters



ERICKSON™

■ KM-CVKV Form B/AD



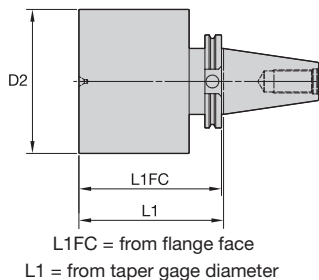
order number	catalog number	system size	D2	D21	L1	L1FC	L2	KM spare parts package	wrench size actuation screw	Nm	kg
3815265	CVKV50BKM32150	KM32	32	69,85	38,10	36,60	2,4	KM32PKG3L	5mm	8-11	3,08
3815266	CVKV50BKM32350	KM32	32	69,85	88,90	87,40	53,2	KM32PKG3L	5mm	8-11	3,26
3815267	CVKV50BKM40175	KM40	40	69,85	44,45	42,95	6,5	KM40PKG3L	6mm	12-16	3,15
3815268	CVKV50BKM40400	KM40	40	69,85	101,60	100,10	65,9	KM40PKG3S	6mm	12-16	3,51
3815269	CVKV50BKM50225	KM50	50	69,85	57,15	55,65	9,2	KM50PKG3L	10mm	27-34	3,42
3815270	CVKV50BKM50475	KM50	50	69,85	120,65	119,15	84,9	KM50PKG3S	10mm	27-34	4,05
3815271	CVKV50BKM63225	KM63	63	69,85	57,15	55,65	13,2	KM63PKG3L	12mm	47-54	3,31
3815272	CVKV50BKM63550	KM63	63	69,85	139,70	138,20	104,0	KM63PKG3S	12mm	47-54	5,07
3815303	CVKV50BKM80325	KM80	80	69,85	82,55	81,05	63,5	KM80PKG3S	14mm	79-85	4,29

NOTE: Do not overtorque actuation screw; use torque recommendations above.
 Supplied with KM actuation mechanism.
 For retention knobs, see page J33.
 These products are only available in the U.S., Canada, and Japan.

Form AD					
Form B			40	(2x) MS2221S	2,5mm
			50	(2x) MS1296S	3mm



- Machinable front 20–30 RW C.



CVKV50 Shank Tools

ERICKSON

■ BB-CVKV Form A

order number	catalog number	D2	L1	L1FC	kg
3815346	CVKV50BB400120	101,6	304,8	303,3	20,28
3815343	CVKV50BB400600	101,6	152,4	150,9	10,61
3815345	CVKV50BB600120	152,4	304,8	303,3	41,63
3815344	CVKV50BB600600	152,4	152,4	150,9	19,86

NOTE: For retention knobs, see page J33.