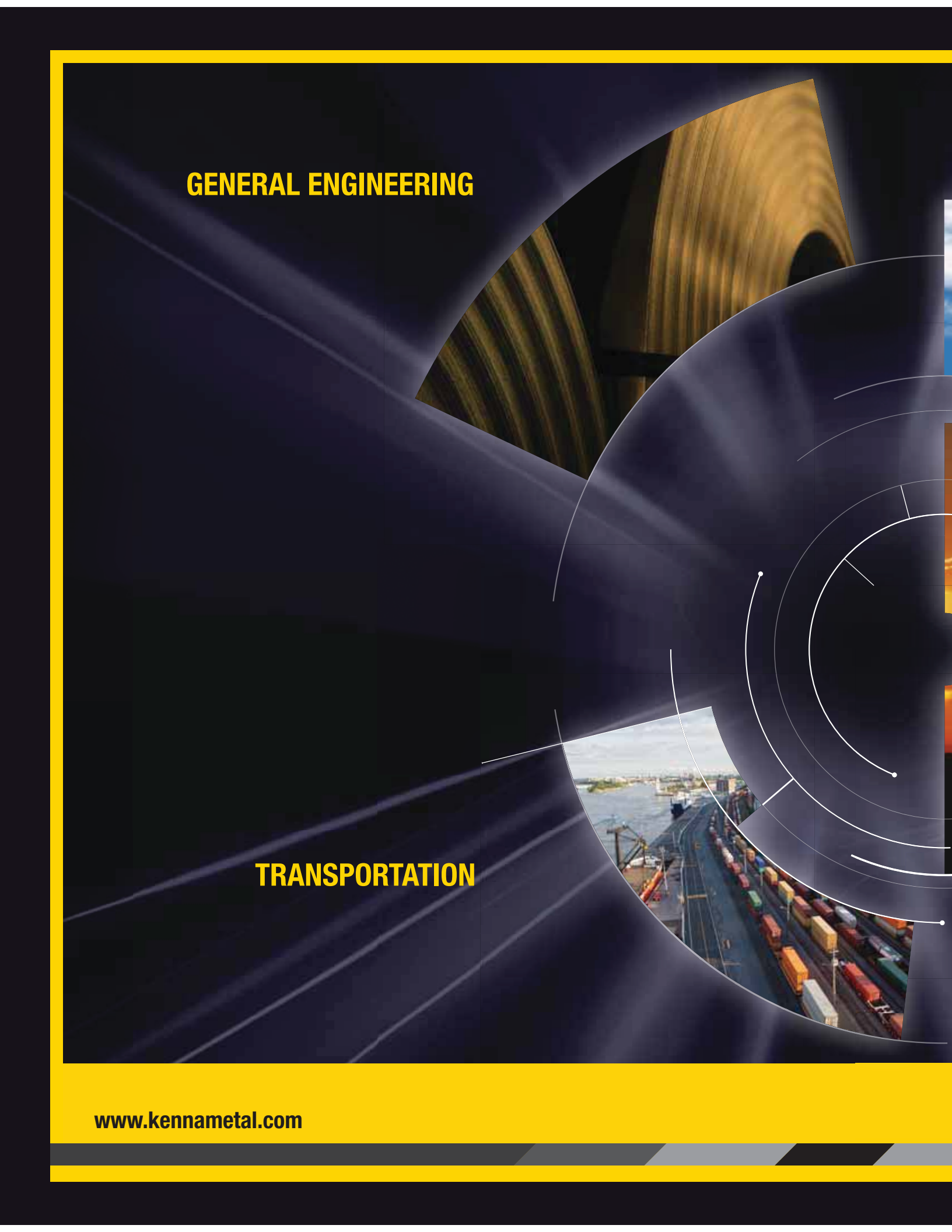


INNOVATIONS **MASTER CATALOG**

TOOLING SYSTEMS
2013

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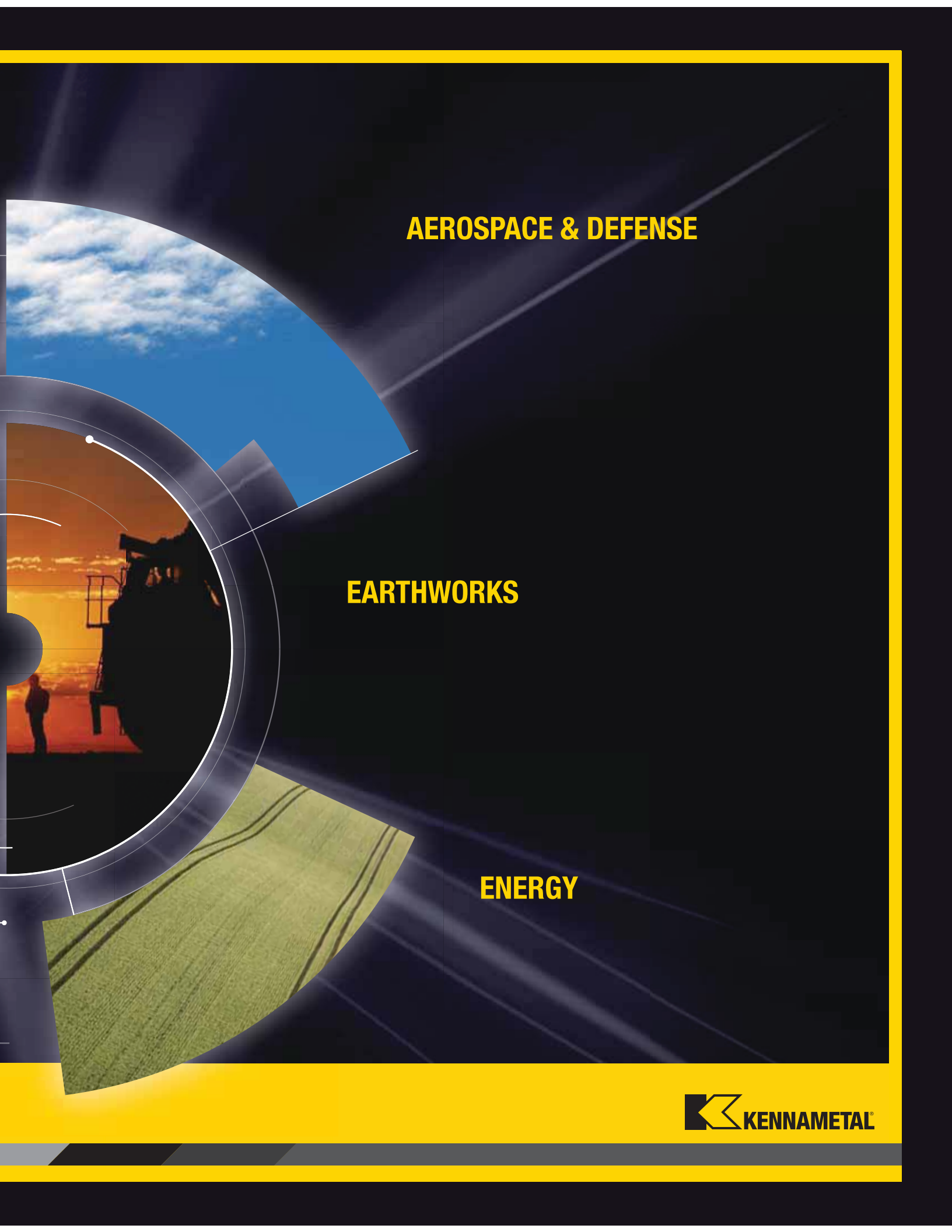




GENERAL ENGINEERING

TRANSPORTATION

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AEROSPACE & DEFENSE

EARTHWORKS

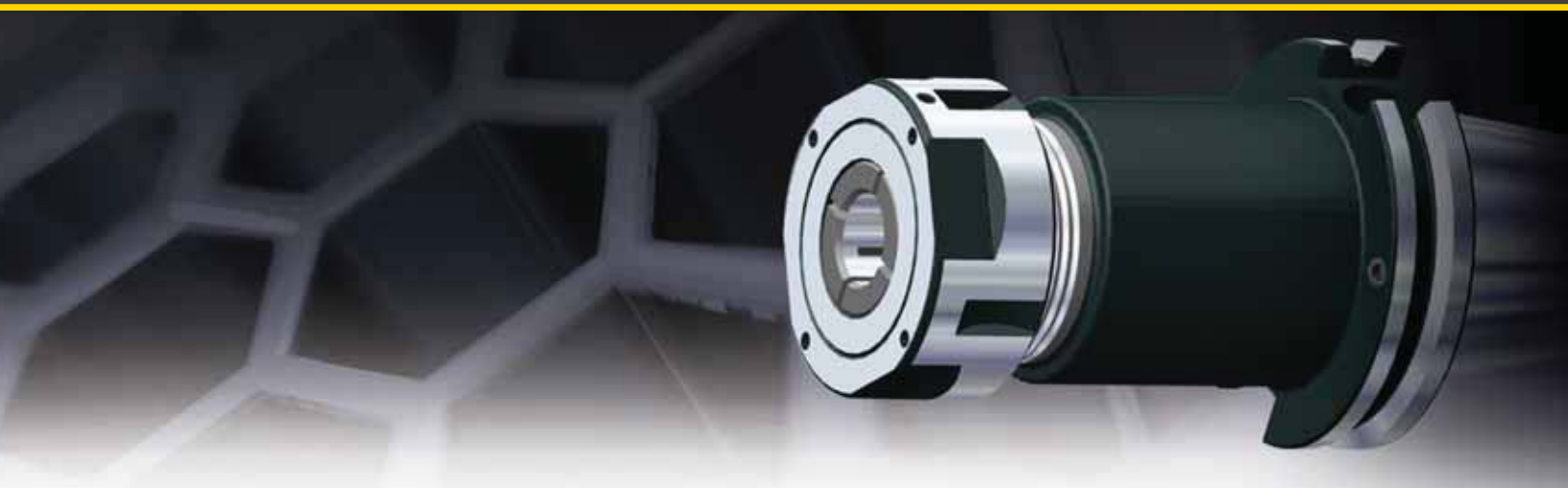
ENERGY



CV Shank Tools

CAT40(CV)	F2-F39
CAT50(CV)	F40-F83





ERICKSON™ CAT V-Flange Shank Tooling System • CV40 Series

Primary Application

ERICKSON V-Flange CAT Taper Tooling is manufactured from premium materials and meets or exceeds the latest ANSI B5.50 and ISO-1947 taper accuracy of AT3 specification standards. The CV40 tools are either pre-balanced to a high specification or balanced-by-design. For high speed applications Kennametal recommends that the complete toolholder assembly (toolholder, retention knobs, collets, hardware, and cutting tools) be balanced as one entity. Exact RPM limits can only be determined by considering machine and spindle configurations in conjunction with tooling design and safety limits factored as a complete system.



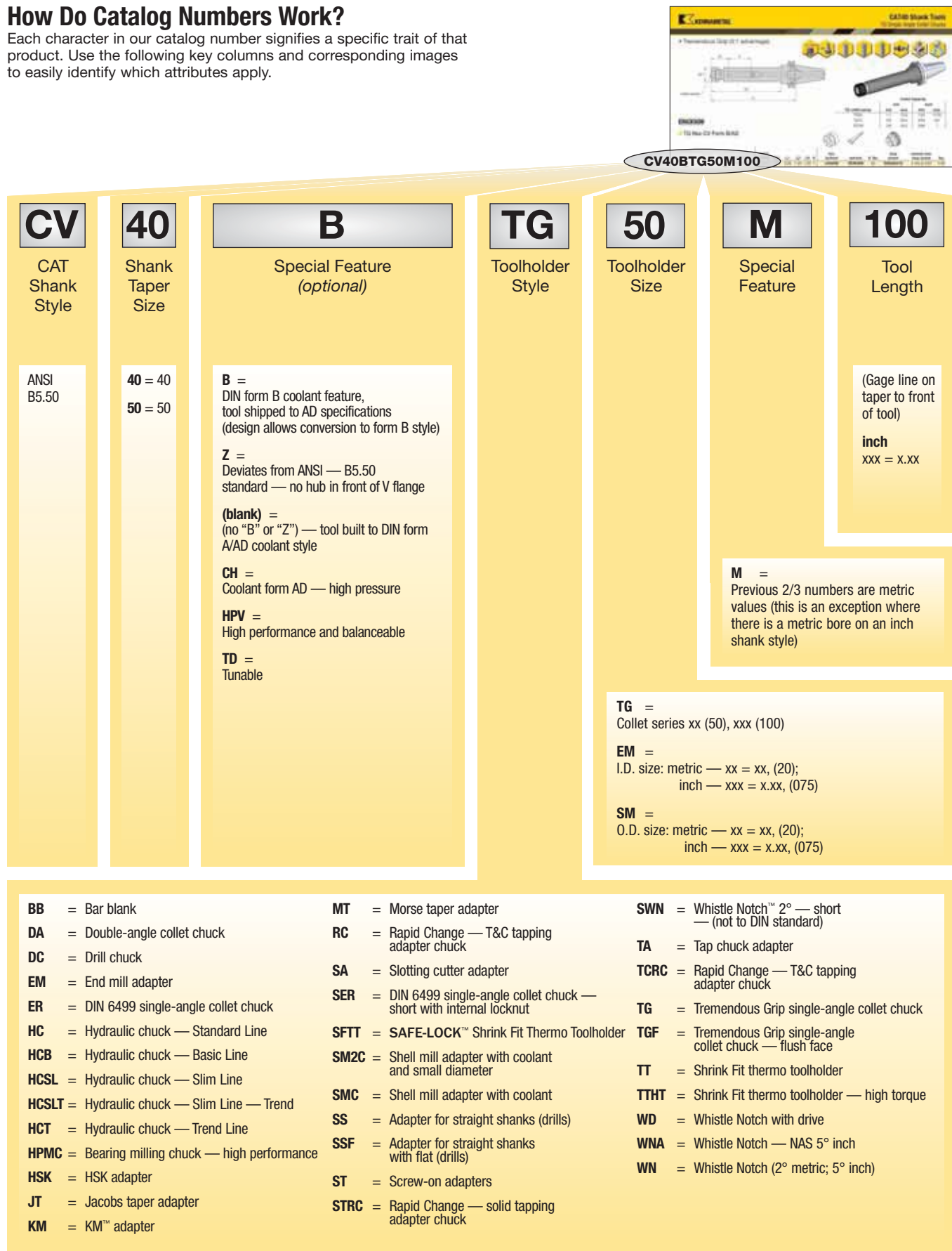


Features and Benefits

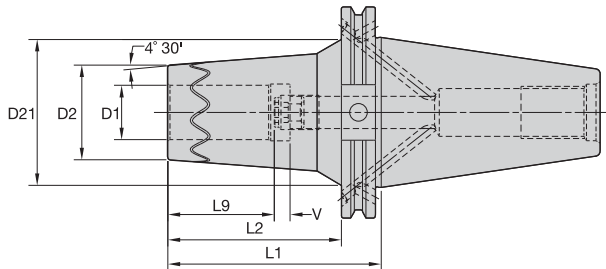
- ANSI B5.50 7/24 taper.
- Standard 5/8-11 drawbar thread.
- Taper accuracy of AT3 specification or better.
- All tools set to form AD coolant specification.
Many can be converted to form B style.
- Maximum 100 bar (1,500 psi) coolant pressure.

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.



- **SAFE-LOCK™**, innovative and unique non-slip system.
- Suitable for carbide and HSS cutting tools.
- Need ≥ 10 kW shrink unit.



SAFE-LOCK™
by HAIMER

ERICKSON™

TT SF MM-CV Z FORM B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	kg
5089582	CV40ZBSFTT12M256	12	27	34	65	46	37	10	1,00
5089583	CV40ZBSFTT16M256	16	30	37	65	46	40	10	1,01
5089584	CV40ZBSFTT20M256	20	36	43	65	46	42	10	1,06
5089585	CV40ZBSFTT25M295	25	46	51	75	56	48	10	1,29

Cutting Tool Shank Requirements metric (ISO standard)

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

Cutting Tool Shank Requirements
inch (industry standard)

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

TT SF IN-CV Z Form B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	lbs
5089586	CV40ZBSFTT050256	1/2	1.04	1.33	2.56	1.81	1.46	.39	2.20
5089587	CV40ZBSFTT062256	5/8	1.16	1.45	2.56	1.81	1.58	.39	2.22
5089588	CV40ZBSFTT075256	3/4	1.40	1.68	2.56	1.81	1.65	.39	2.37
5089589	CV40ZBSFTT100295	1	1.79	2.03	2.95	2.20	1.89	.39	2.82

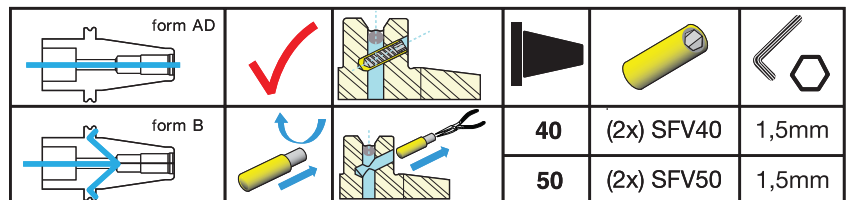
CV40Z toolholders deviate from ANSI-B5.50 standard. The 1.750" hub in front of the V-flange has been eliminated to achieve short gage lengths.

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

Shrink Fit technical section, see page M78.

Shrink Fit accessories, see pages L12–L13.

HSK coolant unit and wrench are available and must be ordered separately; see page L44.

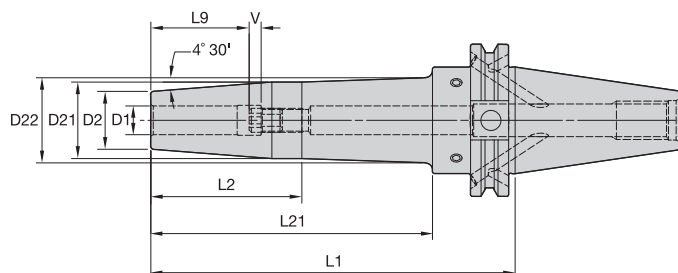
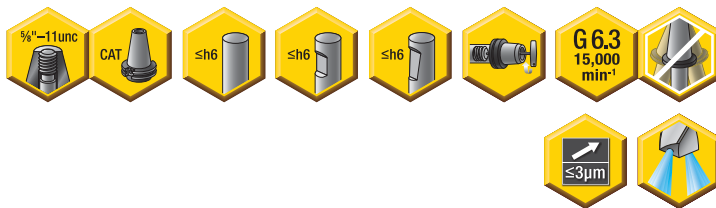


CAT40 Shank Tools

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-CV Form B/AD



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	kg
3683482	CV40BHPVTT06M350	6	21	27	—	89	54	—	26	10	TTSS05014M	2,5mm	1,16
3683493	CV40BHPVTT06M600	6	21	27	32	152	50	117	26	10	TTSS05014M	2,5mm	1,48
3683494	CV40BHPVTT08M350	8	21	27	—	89	54	—	26	10	TTSS06014M	3mm	1,15
3683495	CV40BHPVTT08M600	8	21	27	32	152	50	117	26	10	TTSS06014M	3mm	1,48
3683496	CV40BHPVTT10M375	10	24	32	—	95	60	—	31	10	TTSS08014M	4mm	1,24
3683497	CV40BHPVTT10M600	10	24	32	36	152	63	117	31	10	TTSS08014M	4mm	1,63
3615213	CV40BHPVTT12M375	12	24	32	—	95	60	—	36	10	TTSS10014M	5mm	1,22
3615214	CV40BHPVTT12M600	12	24	32	36	152	63	117	36	10	TTSS10014M	5mm	1,57
3615215	CV40BHPVTT14M375	14	27	34	—	95	60	—	36	10	TTSS10014M	5mm	1,27
3615216	CV40BHPVTT14M600	14	27	34	38	152	63	117	36	10	TTSS10014M	5mm	1,66
3615217	CV40BHPVTT16M375	16	27	34	—	95	60	—	39	10	TTSS12014M	6mm	1,24
3615218	CV40BHPVTT16M600	16	27	34	38	152	63	117	39	10	TTSS12014M	6mm	1,64
3615219	CV40BHPVTT18M400	18	34	44	—	102	83	—	39	10	TTSS12014M	6mm	1,48
3615220	CV40BHPVTT18M600	18	33	42	—	152	117	—	39	10	TTSS12014M	6mm	1,95
3615221	CV40BHPVTT20M400	20	34	44	—	102	83	—	41	10	TTSS16014M	8mm	1,44
3615222	CV40BHPVTT20M600	20	33	42	—	152	117	—	41	10	TTSS16014M	8mm	1,89
3615223	CV40BHPVTT25M400	25	44	53	—	102	83	—	47	10	TTSS16014M	8mm	1,71
3615224	CV40BHPVTT25M600	25	44	53	—	152	133	—	47	10	TTSS16014M	8mm	2,52
3615225	CV40BHPVTT32M400	32	44	53	—	102	83	—	51	10	TTSS16014M	8mm	1,55
3615226	CV40BHPVTT32M600	32	44	53	—	152	133	—	51	10	TTSS16014M	8mm	2,36

(continued)

(TT GP HPV continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/4, 5/16 & 3/8	.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 GP HPV IN-CV Form B/AD



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	lbs
3683474	CV40BHPVTT025350	1/4	.83	1.06	—	3.50	2.13	—	1.02	.39	TTSS05014M	2,5mm	2.55
3683476	CV40BHPVTT025600	1/4	.83	1.06	1.24	6.00	1.97	4.63	1.02	.39	TTSS05014M	2,5mm	3.27
3683477	CV40BHPVTT031350	5/16	.83	1.06	—	3.50	2.13	—	1.02	.39	TTSS06014M	3mm	2.54
3683478	CV40BHPVTT031600	5/16	.83	1.06	1.24	6.00	1.97	4.63	1.02	.39	TTSS06014M	3mm	3.25
3683479	CV40BHPVTT038375	3/8	.95	1.26	—	3.75	2.38	—	1.22	.39	TTSS08014M	4mm	2.73
3683480	CV40BHPVTT038600	3/8	.95	1.26	1.41	6.00	2.48	4.63	1.22	.39	TTSS08014M	4mm	3.59
3683481	CV40BHPVTT044375	7/16	.95	1.26	—	3.75	2.38	—	1.42	.39	TTSS10014M	5mm	2.70
3615175	CV40BHPVTT050375	1/2	.95	1.26	—	3.75	2.38	—	1.42	.39	TTSS10014M	5mm	2.68
3615176	CV40BHPVTT050600	1/2	.95	1.26	1.41	6.00	2.48	4.63	1.42	.39	TTSS10014M	5mm	3.44
3615177	CV40BHPVTT056375	9/16	1.06	1.34	—	3.75	2.38	—	1.42	.39	TTSS10014M	5mm	2.79
3615178	CV40BHPVTT062375	5/8	1.06	1.34	—	3.75	2.38	—	1.54	.39	TTSS12014M	6mm	2.74
3615179	CV40BHPVTT062600	5/8	1.06	1.34	1.48	6.00	2.48	4.63	1.54	.39	TTSS12014M	6mm	3.61
3615180	CV40BHPVTT068400	11/16	1.34	1.75	—	4.00	3.25	—	1.54	.39	TTSS12014M	6mm	3.28
3615182	CV40BHPVTT075600	3/4	1.30	1.65	—	6.00	4.63	—	1.61	.39	TTSS16014M	8mm	4.24
3615181	CV40BHPVTT075400	3/4	1.34	1.75	—	4.00	3.25	—	1.61	.39	TTSS16014M	8mm	3.22
3615184	CV40BHPVTT088600	7/8	1.30	1.65	—	6.00	4.63	—	1.61	.39	TTSS16014M	8mm	4.15
3615183	CV40BHPVTT088400	7/8	1.34	1.75	—	4.00	3.25	—	1.61	.39	TTSS16014M	8mm	3.14
3615185	CV40BHPVTT100400	1	1.73	2.08	—	4.00	3.25	—	1.85	.39	TTSS16014M	8mm	3.76
3615186	CV40BHPVTT100600	1	1.73	2.08	—	6.00	5.25	—	1.85	.39	TTSS16014M	8mm	5.06
3615187	CV40BHPVTT125400	1 1/4	1.73	2.08	—	4.00	3.25	—	2.01	.39	TTSS16014M	8mm	3.43
3615188	CV40BHPVTT125600	1 1/4	1.73	2.08	—	6.00	5.25	—	2.01	.39	TTSS16014M	8mm	4.74

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

Shrink Fit technical section, see page M78.

Supplied with stop screw.

Adjusting stop screw gage, see page M81.

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 L45.

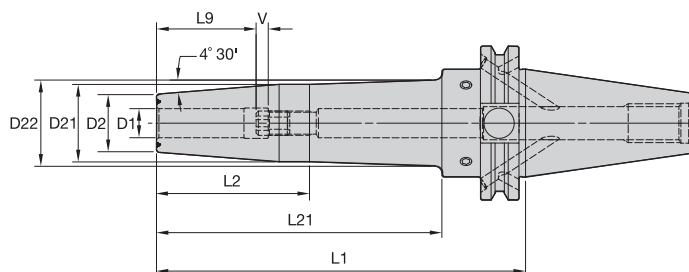
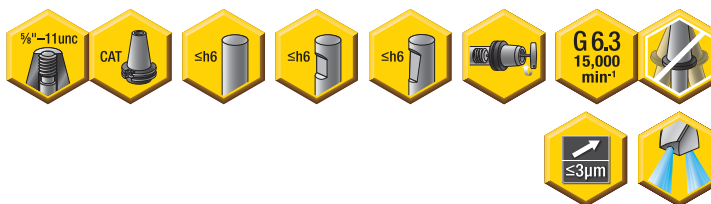
Form AD					
Form B				40 (2x) MS2221S	2,5mm
				50 (2x) MS1296S	3mm

CAT40 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-CV Form B/AD



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	kg
3618030	CV40BHPVTTH12M375	12	24	32	—	95	60	—	36	10	TTSS10014M	5mm	1,22
3618031	CV40BHPVTTH12M600	12	24	32	36	152	63	117	36	10	TTSS10014M	5mm	1,57
3618032	CV40BHPVTTH14M375	14	27	34	—	95	60	—	36	10	TTSS10014M	5mm	1,27
3618033	CV40BHPVTTH14M600	14	27	34	38	152	63	117	36	10	TTSS10014M	5mm	1,66
3618034	CV40BHPVTTH16M375	16	27	34	—	95	60	—	39	10	TTSS12014M	6mm	1,24
3618035	CV40BHPVTTH16M600	16	27	34	38	152	63	117	39	10	TTSS12014M	6mm	1,64
3618036	CV40BHPVTTH18M400	18	34	44	—	102	83	—	39	10	TTSS12014M	6mm	1,48
3618037	CV40BHPVTTH18M600	18	33	42	—	152	117	—	39	10	TTSS12014M	6mm	1,95
3618038	CV40BHPVTTH20M400	20	34	44	—	102	83	—	41	10	TTSS16014M	8mm	1,44
3618039	CV40BHPVTTH20M600	20	33	42	—	152	117	—	41	10	TTSS16014M	8mm	1,89
3618040	CV40BHPVTTH25M400	25	44	53	—	102	83	—	47	10	TTSS16014M	8mm	1,71
3618041	CV40BHPVTTH25M600	25	44	53	—	152	133	—	47	10	TTSS16014M	8mm	2,52
3618042	CV40BHPVTTH32M400	32	44	53	—	102	83	—	51	10	TTSS16014M	8mm	1,55
3618043	CV40BHPVTTH32M600	32	44	53	—	152	133	—	51	10	TTSS16014M	8mm	2,36

(continued)

(TT HT HPV continued)

Cutting Tool Shank Requirements
inch (industry standard)

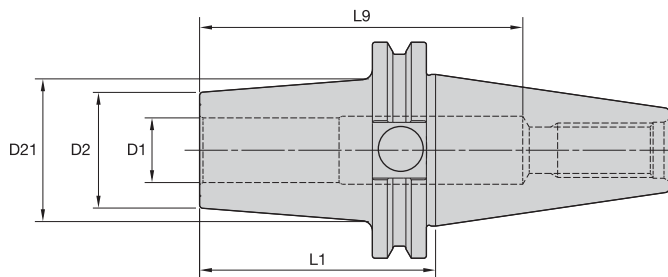
cutting tool shank diameters	tolerance
1/2, 9/16, 5/8, & 11/16	.0000/- .0004
3/4, 7/8, 1, & 1-1/4	.0000/- .0005

■ TT HT HPV IN-CV Form B/AD



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	lbs
3617952	CV40BHPVTTH050375	1/2	.95	1.26	—	3.75	2.38	—	1.42	.39	TTSS10014M	5mm	2.68
3618003	CV40BHPVTTH050600	1/2	.95	1.26	1.41	6.00	2.48	4.63	1.42	.39	TTSS10014M	5mm	3.44
3618004	CV40BHPVTTH056375	9/16	1.06	1.34	—	3.75	2.38	—	1.42	.39	TTSS10014M	5mm	2.79
3618005	CV40BHPVTTH062375	5/8	1.06	1.34	—	3.75	2.38	—	1.54	.39	TTSS12014M	6mm	2.74
3618006	CV40BHPVTTH062600	5/8	1.06	1.34	1.48	6.00	2.48	4.63	1.54	.39	TTSS12014M	6mm	3.61
3618007	CV40BHPVTTH068400	11/16	1.34	1.75	—	4.00	3.25	—	1.54	.39	TTSS12014M	6mm	3.28
3618009	CV40BHPVTTH075600	3/4	1.30	1.65	—	6.00	4.63	—	1.61	.39	TTSS16014M	8mm	4.24
3618008	CV40BHPVTTH075400	3/4	1.34	1.75	—	4.00	3.25	—	1.61	.39	TTSS16014M	8mm	3.22
3618011	CV40BHPVTTH088600	7/8	1.30	1.65	—	6.00	4.63	—	1.61	.39	TTSS16014M	8mm	4.15
3618010	CV40BHPVTTH088400	7/8	1.34	1.75	—	4.00	3.25	—	1.61	.39	TTSS16014M	8mm	3.13
3618012	CV40BHPVTTH100400	1	1.73	2.08	—	4.00	3.25	—	1.85	.39	TTSS16014M	8mm	3.76
3618013	CV40BHPVTTH100600	1	1.73	2.08	—	6.00	5.25	—	1.85	.39	TTSS16014M	8mm	5.06
3618014	CV40BHPVTTH125400	1 1/4	1.73	2.08	—	4.00	3.25	—	2.01	.39	TTSS16014M	8mm	3.43
3618015	CV40BHPVTTH125600	1 1/4	1.73	2.08	—	6.00	5.25	—	2.01	.39	TTSS16014M	8mm	4.74

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



■ TT HT HPV IN-CV Z Form AD

order number	catalog number	D1	D2	D21	L1	L9	lbs
3683514	CV40ZTTH050275	1/2	.95	1.26	2.75	4.26	2.16
3683516	CV40ZTTH075275	3/4	1.34	1.65	2.75	3.74	2.34

CV40Z toolholders deviate from ANSI-B5-50 standard. The 1.750" diameter in front of the V-flange has been eliminated to achieve short gage lengths.

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

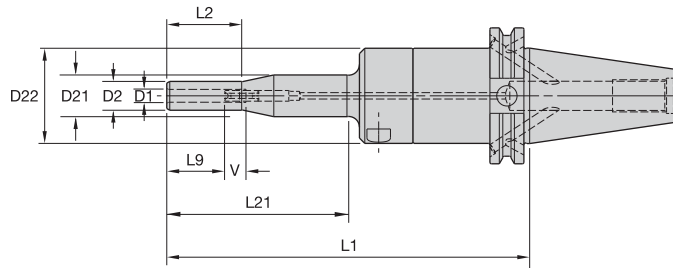
Shrink Fit technical section, see page M78.

Supplied with stop screw.

Adjusting stop screw gage, see page M81.

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 L45.

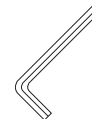


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■ HC Slim T MM-CV Form B/AD

order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	kg
3019245	CV40BHCSLT06M669	6	13,5	19,5	44,5	170	35	85	27	10	1,64
3019246	CV40BHCSLT08M669	8	15,5	19,5	44,5	170	35	85	27	10	1,65
3019247	CV40BHCSLT10M669	10	17,5	44,5	—	170	85	151	31	10	1,65

■ Spare Parts



catalog number	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw
CV40BHCSLT06M669	170.135	5mm	170.002	2,5mm
CV40BHCSLT08M669	170.135	5mm	170.002	2,5mm
CV40BHCSLT10M669	170.135	5mm	170.003	3mm

■ HC Slim T IN-CV Form B/AD

order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	lbs
3019257	CV40BHCSLT025669	.25	.54	.77	44,45	6.69	1.38	85,00	1.06	.39	3.64
3019258	CV40BHCSLT038669	.38	.69	1.75	—	6.69	3.35	150,95	1.22	.39	3.64

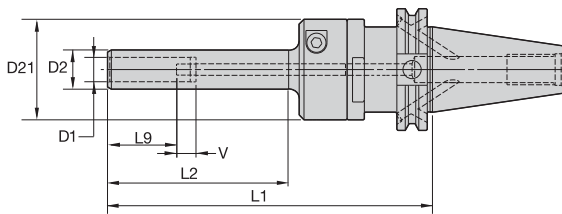
■ Spare Parts



catalog number	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw
CV40BHCSLT025669	170.135	5mm	170.002	2,5mm
CV40BHCSLT038669	170.135	5mm	170.003	3mm

(continued)

(HC Slim Form B/AD continued)



■ HC Slim MM-CV Form B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	kg
2495136	CV40BHCSL12M669	12	19,5	44,5	170	95	36	10	1,56
3019248	CV40BHCSL14M669	14	21,5	52,5	170	95	36	10	1,75
3019249	CV40BHCSL16M669	16	23,5	52,5	170	95	39	10	1,78
3019250	CV40BHCSL18M669	18	25,5	52,5	170	95	39	10	1,82
2495141	CV40BHCSL20M669	20	27,5	52,5	170	95	41	10	1,83

■ Spare Parts



catalog number	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw
CV40BHCSL12M669	170.135	5mm	170.002	2,5mm
CV40BHCSL14M669	170.135	5mm	170.002	2,5mm
CV40BHCSL16M669	170.135	5mm	170.002	2,5mm
CV40BHCSL18M669	170.135	5mm	170.002	2,5mm
CV40BHCSL20M669	170.135	5mm	170.002	2,5mm

■ HC Slim IN-CV Form B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	lbs
2508153	CV40BHCSL050669	.50	.81	2.07	6.69	3.74	1.42	.39	3.84
3019259	CV40BHCSL062669	.63	.93	2.07	6.69	3.74	1.54	.39	3.92
2508154	CV40BHCSL075669	.75	1.06	2.07	6.69	3.74	1.61	.39	4.08

■ Spare Parts

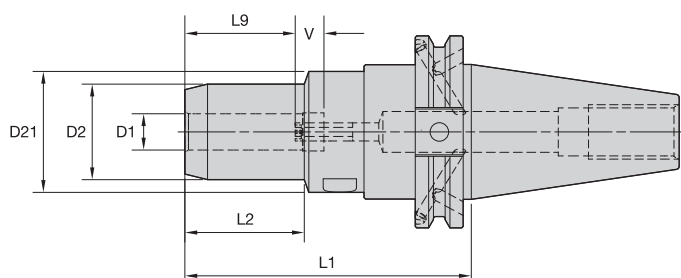


catalog number	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw
CV40BHCSL050669	170.135	5mm	170.002	2,5mm
CV40BHCSL062669	170.135	5mm	170.002	2,5mm
CV40BHCSL075669	170.135	5mm	170.002	2,5mm

NOTE: Do not overtorque actuation screw. Use supplied wrench and tighten by hand until stop is felt.

Hydraulic chuck technical section, see page M84.
Supplied with stop screw and actuation wrench.
Unable to use SEFAS™ chamfering rings on this design.
Reduction sleeves are available and must be ordered separately; see page J2.
For retention knobs, see page L45.

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



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■ HC MM -CV Form B/AD

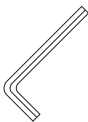


order number	catalog number	D1	D2	D21	L1	L2	L9	V	actuation wrench	wrench size actuation screw	stop screw wrench	wrench size stop screw	kg
1605145	CV40BHC06M350	6	25,7	40	88,9	33	27	10	170.135	5mm	170.002	2,5mm	1,24
1605149	CV40BHC08M350	8	27,7	40	88,9	33	27	10	170.135	5mm	170.002	2,5mm	1,25
1605150	CV40BHC10M375	10	29,7	40	95,3	39	31	10	170.135	5mm	170.002	2,5mm	1,30
2079279	CV40BHC12M375	12	31,6	40	95,3	40	36	10	170.135	5mm	170.002	2,5mm	1,32
2079280	CV40BHC14M400	14	33,6	50	101,6	46	41	10	170.135	5mm	170.003	3mm	1,45
2079281	CV40BHC16M400	16	37,6	50	101,6	47	41	10	170.135	5mm	170.003	3mm	1,52
2079282	CV40BHC18M400	18	39,6	50	101,6	47	41	10	170.135	5mm	170.003	3mm	1,54
2079523	CV40BHC20M400	20	41,6	50	101,6	48	41	10	170.135	5mm	170.003	3mm	1,56
1605216	CV40BHC25M462	25	49,9	63	117,5	51	51	10	170.136	6mm	170.004	4mm	2,13
1605217	CV40BHC32M462	32	59,9	63	117,5	59	51	10	170.136	6mm	170.004	4mm	2,31

(continued)

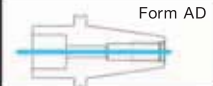
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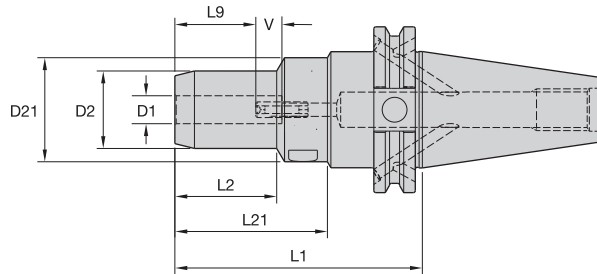
■ HC IN -CV Form B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	actuation wrench	wrench size actuation screw	stop screw wrench	wrench size stop screw	lbs
1605101	CV40BHC025350	1/4	1.01	1.57	3.50	1.30	1.06	.39	170.135	5mm	170.002	2,5mm	2.7
1605102	CV40BHC038375	3/8	1.17	1.57	3.75	1.54	1.22	.39	170.135	5mm	170.002	2,5mm	2.9
1605103	CV40BHC050375	1/2	1.24	1.57	3.75	1.57	1.42	.39	170.135	5mm	170.002	2,5mm	2.9
1605104	CV40BHC062400	5/8	1.48	1.97	4.00	1.83	1.54	.39	170.135	5mm	170.003	3mm	3.2
1605105	CV40BHC075400	3/4	1.64	1.97	4.00	1.89	1.61	.39	170.135	5mm	170.003	3mm	3.4
1605106	CV40BHC100462	1	1.96	2.48	4.63	2.01	1.81	.39	170.136	6mm	170.004	4mm	4.7
1605107	CV40BHC125462	1 1/4	2.36	2.48	4.63	2.32	1.97	.39	170.136	6mm	170.004	4mm	5.1

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.
 Hydraulic chuck technical section, see page M84.
 Supplied with stop screw.
 Actuation wrench must be ordered separately.
 Reduction sleeves are available and must be ordered separately; see page J2.
 For retention knobs, see page L45.

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



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■ HC Trend MM-CV Form B/AD

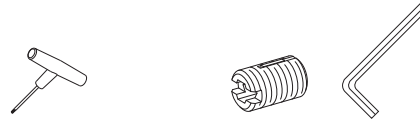


order number	catalog number	D1	D2	D21	L1	L2	L21	L9	V	actuation wrench	wrench size actuation screw	stop screw	stop screw wrench	wrench size stop screw	kg
2979257	CV40BHCT06M350	6	26	40	89	33	53	27	10	170.135	5mm	571.061	170.003	3mm	1,25
2982160	CV40BHCT06M600	6	26	40	152	100	117	27	10	170.135	5mm	571.061	170.003	3mm	1,49
2979258	CV40BHCT08M350	8	28	40	89	33	53	27	10	170.135	5mm	571.061	170.003	3mm	1,27
2982161	CV40BHCT08M600	8	28	40	152	100	117	27	10	170.135	5mm	571.061	170.003	3mm	1,55
2979259	CV40BHCT10M375	10	30	40	95	39	58	31	10	170.135	5mm	571.061	170.003	3mm	1,32
2982162	CV40BHCT10M600	10	30	40	152	100	117	31	10	170.135	5mm	571.061	170.003	3mm	1,62
2979260	CV40BHCT12M375	12	32	40	95	40	60	36	10	170.135	5mm	571.061	170.003	3mm	1,32
2982163	CV40BHCT12M600	12	32	40	152	100	117	36	10	170.135	5mm	571.061	170.003	3mm	1,67
2979261	CV40BHCT14M400	14	34	50	102	46	65	41	10	170.135	5mm	571.063	170.005	5mm	1,47
2982164	CV40BHCT14M600	14	34	50	152	100	116	36	10	170.135	5mm	—	170.005	5mm	1,79
2979262	CV40BHCT16M400	16	38	50	102	47	65	41	10	170.135	5mm	571.063	170.005	5mm	1,54
2982165	CV40BHCT16M600	16	38	50	152	100	116	39	10	170.135	5mm	571.063	170.005	5mm	1,95
2979263	CV40BHCT18M400	18	40	50	102	47	65	41	10	170.135	5mm	571.063	170.005	5mm	1,56
2982166	CV40BHCT18M600	18	40	50	152	100	116	39	10	170.135	5mm	571.063	170.005	5mm	2,02
2979264	CV40BHCT20M400	20	42	50	102	48	65	41	10	170.135	5mm	571.063	170.005	5mm	1,58
2982167	CV40BHCT20M600	20	42	50	152	100	116	41	10	170.135	5mm	571.063	170.005	5mm	2,10
2979265	CV40BHCT25M462	25	50	63	117	51	81	51	10	170.136	6mm	571.063	170.005	5mm	2,15
2979266	CV40BHCT32M462	32	60	63	117	59	81	51	10	170.136	6mm	—	170.005	5mm	2,33

(continued)

(HC Trend CV Form B/AD continued)

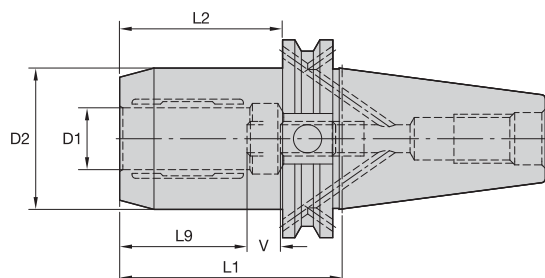
■ HC Trend IN-CV Form B/AD



order number	catalog number	D1	D2	D21	L1	L2	L9	V	actuation wrench	wrench size actuation screw	stop screw	stop screw wrench	wrench size stop screw	lbs
2979230	CV40BHCT025350	1/4	1.012	1.569	3.500	1.299	1.063	.39	170.135	5mm	571.061	170.003	3mm	2.76
2982155	CV40BHCT025600	1/4	1.012	1.569	6.000	3.937	1.063	.39	170.135	5mm	571.061	170.003	3mm	3.28
2979231	CV40BHCT038375	3/8	1.169	1.569	3.750	1.535	1.221	.39	170.135	5mm	571.061	170.003	3mm	2.91
2982156	CV40BHCT038600	3/8	1.169	1.569	6.000	3.937	1.221	.39	170.135	5mm	571.061	170.003	3mm	3.57
2979232	CV40BHCT050375	1/2	1.244	1.569	3.750	1.575	1.417	.39	170.135	5mm	571.061	170.003	3mm	2.91
2982157	CV40BHCT050600	1/2	1.244	1.569	6.000	3.937	1.417	.39	170.135	5mm	571.061	170.003	3mm	3.68
2979253	CV40BHCT062400	5/8	1.480	1.963	4.000	1.831	1.535	.39	170.135	5mm	571.063	170.005	5mm	3.40
2982158	CV40BHCT062600	5/8	1.479	1.963	6.000	3.937	1.535	.39	170.135	5mm	571.063	170.005	5mm	4.30
2979254	CV40BHCT075400	3/4	1.638	1.963	4.000	1.890	1.614	.39	170.135	5mm	571.063	170.005	5mm	3.53
2982159	CV40BHCT075600	3/4	1.873	1.963	6.000	3.937	1.614	.39	170.135	5mm	571.063	170.005	5mm	4.65
2979255	CV40BHCT100462	1	1.961	2.474	4.625	2.008	1.811	.39	170.136	6mm	571.063	170.005	5mm	4.76
2979256	CV40BHCT125462	1 1/4	2.354	2.474	4.625	2.323	1.969	.39	170.136	6mm	571.063	170.005	5mm	5.18

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.
 Hydraulic chuck technical section, see page M84.
 Supplied with stop screw.
 Actuation wrench must be ordered separately.
 Reduction sleeves are available and must be ordered separately; see page J2.
 For retention knobs, see page L45.

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



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■ HC Basic MM-CV Form B/AD

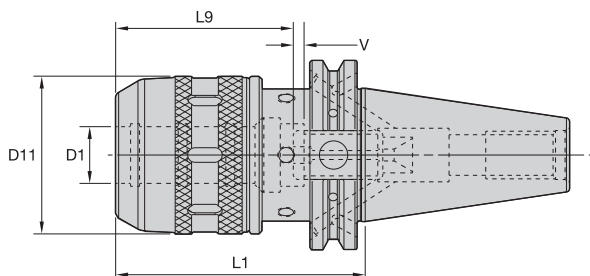
order number	catalog number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	stop screw wrench	wrench size stop screw	kg
2001975	CV40BHCB20M400	20	49,9	102	83	41	10	170.135	5mm	170.005	5mm	1,81

■ HC Basic IN-CV Form B/AD

order number	catalog number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	stop screw wrench	wrench size stop screw	lbs
2001976	CV40BHCB075400	3/4	1.96	4.00	3.25	1.61	.39	170.135	5mm	170.005	5mm	4.01

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.
Hydraulic chuck technical section, see page M84.
Supplied with stop screw.
Actuation wrench must be ordered separately.
Reduction sleeves are available and must be ordered separately; see page J2.
For retention knobs, see page L45.

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



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■ HPMC IN-CV Form B/AD

order number	catalog number	D1	D11	L1	L9	V	locknut wrench	stop screw	wrench size stop screw	lbs
3100356	CV40BHPMC075335	3/4	2.09	3.35	4.73	.79	PSW52M	MCSS16040M	2,5mm & 5mm	3.40
3100358	CV40BHPMC075591	3/4	2.09	5.91	1.93	.79	PSW52M	MCSS16040M	2,5mm & 5mm	5.70
3100359	CV40BHPMC100374	1	2.40	3.74	2.17	.79	PSW58M	MCSS16040M	2,5mm & 5mm	4.20
3100360	CV40BHPMC100591	1	2.40	5.91	2.17	.79	PSW58M	MCSS16040M	2,5mm & 5mm	6.45
3100362	CV40BHPMC125472	1 1/4	2.76	4.72	2.28	.79	PSW68M	MCSS16040M	2,5mm & 5mm	5.65
3100361	CV40BHPMC125591	1 1/4	2.76	5.91	2.28	.79	PSW68M	MCSS16040M	2,5mm & 5mm	7.20

NOTE: Milling chuck technical section, see page M88.

Supplied with locknut and stop screw.

Locknut wrench not included.

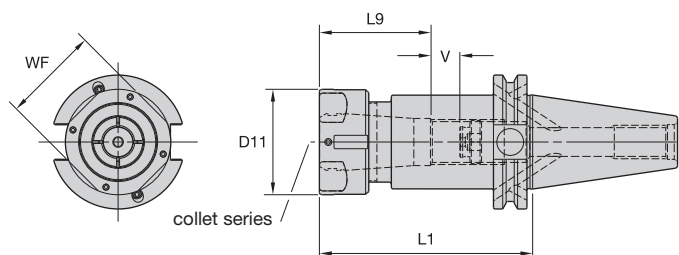
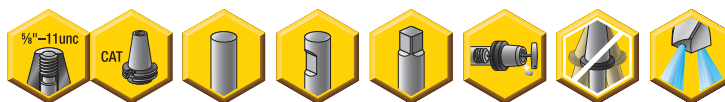
Optional M6~1,0P fine-balancing screw set is available (order number HPMCBALSCREWSET) and must be ordered separately; see page L14.

Reduction sleeves are available and must be ordered separately; see page J6.

For retention knobs, see page L45.

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

- Tremendous Grip (3:1 advantage).
- Totally flush face, locknut to collet.



TG collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
TG50	1,1	13,5	1/32	17/32
TG75	2,6	20,0	3/64	3/4
TG100	2,6	25,5	5/64	1

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■ TG Flush Face-CV Form B/AD

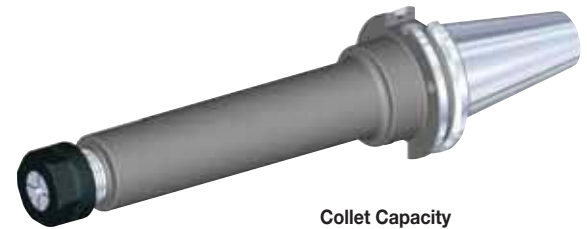
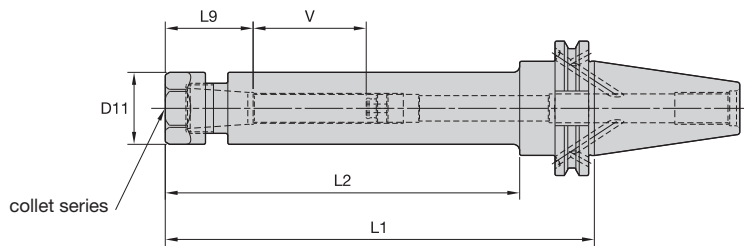
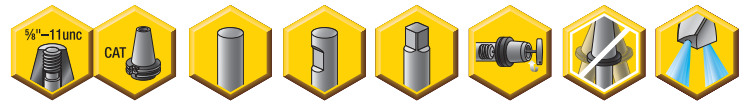


order number	catalog number	collet series	D11	L1	L9	V	locknut	WF	locknut wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
2987290	CV40BTGF050250	TG50	1.50	2.50	1.46	.70	LNATGF050M	34	HSW34M	50	SS056041G	4mm & 5/32	2.37
2987291	CV40BTGF050400	TG50	1.50	4.00	1.46	2.20	LNATGF050M	34	HSW34M	50	SS056041G	4mm & 5/32	2.76
2987292	CV40BTGF050600	TG50	1.50	6.00	1.46	2.48	LNATGF050M	34	HSW34M	50	SS056041G	4mm & 5/32	3.36
2987303	CV40BTGF075250	TG75	1.97	2.50	1.89	.95	LNATGF075M	46	HSW45M	100	SS081041G	4mm & 5/32	2.43
2987304	CV40BTGF075400	TG75	1.97	4.00	1.89	1.30	LNATGF075M	46	HSW45M	100	SS081041G	4mm & 5/32	3.31
2987305	CV40BTGF075600	TG75	1.97	6.00	1.89	3.31	LNATGF075M	46	HSW45M	100	SS081041G	4mm & 5/32	4.41
2987306	CV40BTGF100275	TG100	2.36	2.75	2.44	.55	LNATGF100M	55	HSW58M	150	SS112041G	4mm & 5/32	2.55
2987307	CV40BTGF100400	TG100	2.36	4.00	2.44	.71	LNATGF100M	55	HSW58M	150	SS112041G	4mm & 5/32	3.42
2987308	CV40BTGF100600	TG100	2.36	6.00	2.44	2.68	LNATGF100M	55	HSW58M	150	SS112041G	4mm & 5/32	4.50

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 M98.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 Locknut disk sealing cap is available and must be ordered separately; see pages L34–L35.
 Coolant disks for sealing cap are available and must be ordered separately; see pages L16–L17.
 Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
 Balanceable/interchangeable locknuts are available and must be ordered separately; see page L16.
 TG standard straight-bore collets, see page J10.
 TG tap collets, see page J10.
 For retention knobs, see page L45.

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

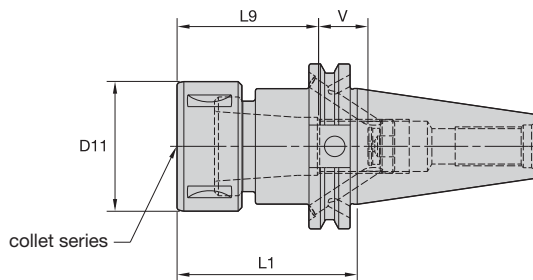
- Tremendous Grip (3:1 advantage).



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■ TG Hex-CV Form B/AD

order number	catalog number	collet series	D11	L1	L2	L9	V	hex locknut	wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
4135683	CV40BTG050300	TG50	1.34	3.00	1.59	1.50	1	LN050M	OEWS30M	50	SS056041G	4mm & 5/32	2.49
4135684	CV40BTG050500	TG50	1.34	5.00	3.59	1.50	2	LN050M	OEWS30M	50	SS056041G	4mm & 5/32	3.16
4135685	CV40BTG050800	TG50	1.34	8.00	6.59	1.50	2	LN050M	OEWS30M	50	SS056041G	4mm & 5/32	4.20
4135686	CV40BTG0501000	TG50	1.34	10.00	8.59	1.50	2	LN050M	OEWS30M	50	SS056041G	4mm & 5/32	4.90



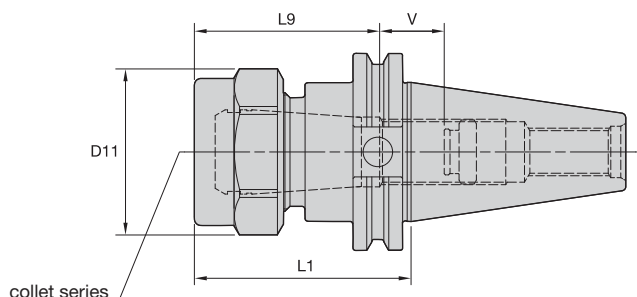
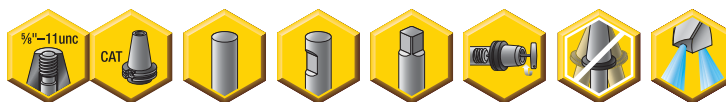
■ TG Round-CV Form B/AD

order number	catalog number	collet series	D11	L1	L9	V	locknut	wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
1261621	CV40BTG075275G	TG75	1.97	2.75	1.93	.75	LNA075M	HSW45M	100	SS081041G	4mm & 5/32	2.63
1261622	CV40BTG075600G	TG75	1.97	6.00	1.93	4.01	LNA075M	HSW45M	100	SS081041G	4mm & 5/32	4.50
1261623	CV40BTG100300G	TG100	2.36	3.00	2.64	.67	LNA100M	HSW58M	150	SS094041G	4mm & 5/32	2.91
1261624	CV40BTG100600G	TG100	2.36	6.00	2.64	2.95	LNA100M	HSW58M	150	SS094041G	4mm & 5/32	4.82

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 M98.
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 pages L16–L17.
Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
Balanceable/interchangeable locknuts are available and must be ordered separately; see page L16.
TG standard straight-bore collets, see page J10.
TG tap collets, see page J10.
For retention knobs, see page L45.

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

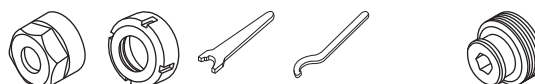
- Tremendous Grip (3:1 advantage).



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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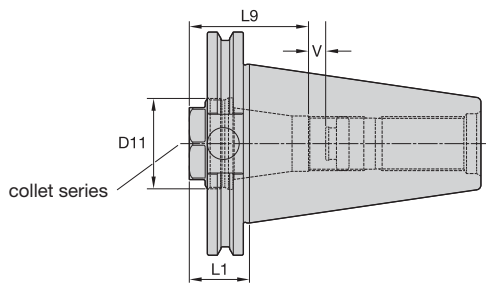
■ TG Hex-CV Form AD



order number	catalog number	collet series	D11	L1	L9	V	locknut	locknut	locknut wrench	locknut wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
1025600	CV40TG075600	TG75	2.09	6.00	2.16	3.84	NPA075	—	OEW188	—	100	SS081041G	4mm & 5/32	4.40
1025799	CV40TG075275	TG75	2.09	2.75	2.28	1.18	NPA075	—	OEW188	—	100	SS081041G	4mm & 5/32	2.41
1025771	CV40TG100300	TG100	2.44	3.00	2.95	.51	NPA100	—	OEW225	—	150	SS112041G	4mm & 5/32	2.77
1025772	CV40TG100600	TG100	2.44	6.00	2.94	3.38	NPA100	—	OEW225	—	150	SS112041G	4mm & 5/32	5.40
1025773	CV40TG100400	TG100	2.44	4.00	2.95	1.54	NPA100	—	OEW225	—	150	SS112041G	4mm & 5/32	3.28
1013532	CV40TG150488	TG150	3.50	4.88	3.27	1.23	—	NPA150	—	PSW350	200	SS125050G	4mm & 5/32	5.72

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 M98.
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 L14.
Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
Balanceable/interchangeable locknuts are available and must be ordered separately; see page L16.
TG standard straight-bore collets, see page J10.
TG tap collets, see page J10.
For retention knobs, see page L45.

- Grip (2:1 advantage).

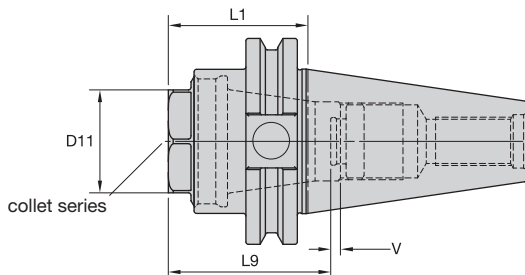


ER collet series	Collet Capacity		mm		inch	
	min	max	min	max	min	max
ER32	2,0	20,0	.08	.81		

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■ ER Short-CV Z Form AD

order number	catalog number	collet series	D11	L1	L9	V	locknut	locknut wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
2978739	CV40ZSER32106	ER32	1.41	1.06	1.97	.20	LNECSER32M	OEW32M	100	SS094041G	4mm & 5/32	1.35



■ ER Short-CV Form AD

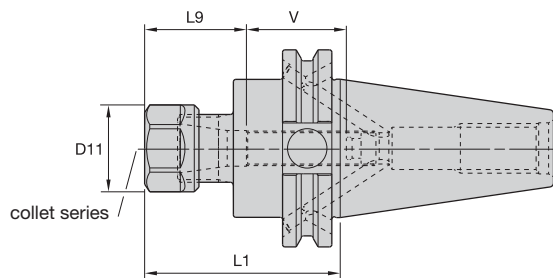
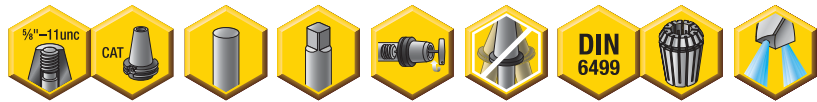
order number	catalog number	collet series	D11	L1	L9	V	locknut	wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
2978740	CV40SER32169	ER32	1.41	1.69	1.97	.43	LNECSER32M	OEW32M	100	SS094041G	4mm & 5/32	1.70



CV40Z toolholders deviate from ANSI-B5-50 standard. The 1.750" diameter in front of the V-flange has been eliminated to achieve short gage lengths.

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 M98.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
 ER standard straight-bore collets, see page J50.
 ER tap collets, see pages J58–J59.
 ER TCT tension-only tap collets, see page J60.
 For retention knobs, see page L45.

- Grip (2:1 advantage).



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■ ER Hex-CV Form B/AD

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

order number	catalog number	collet series	D11	L1	L9	V	lbs
1901019	CV40BER16250	ER16	1.10	2.50	1.26	1.30	2.30
1901046	CV40BER16500	ER16	1.10	5.00	1.26	1.58	2.85
1261618	CV40BER20250	ER20	1.34	2.50	1.42	1.73	2.32
2249531	CV40BER20600	ER20	1.34	6.00	1.42	1.73	3.47

■ Spare Parts

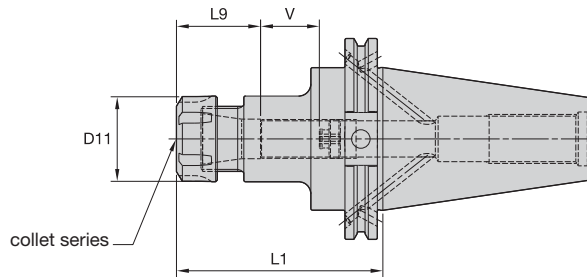


catalog number	locknut	locknut wrench	ft. lbs.	stop screw	wrench size stop screw
CV40BER16250	LNHSER16M	OEWS25M	30	SS044038G	4mm & 5/32
CV40BER16500	LNHSER16M	OEWS25M	30	SS044038G	4mm & 5/32
CV40BER20250	LNHSER20M	OEWS30M	24	SS056041G	4mm & 5/32
CV40BER20600	LNHSER20M	OEWS30M	24	SS056041G	4mm & 5/32

(continued)

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

(ER continued)



■ ER Round-CV Form B/AD

order number	catalog number	collet series	D11	L1	L9	V	lbs
2249532	CV40BER25250	ER25	1.65	2.50	1.57	.75	2.35
2249703	CV40BER25600	ER25	1.65	6.00	1.57	2.37	4.13
1261619	CV40BER32275	ER32	1.97	2.75	1.81	1.65	2.34
1901045	CV40BER32600	ER32	1.97	6.00	1.81	2.13	4.26
2249704	CV40BER40300	ER40	2.48	3.00	2.05	.47	2.78
2249705	CV40BER40600	ER40	2.48	6.00	2.05	1.89	4.44

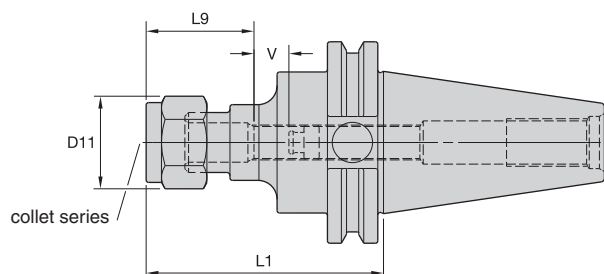
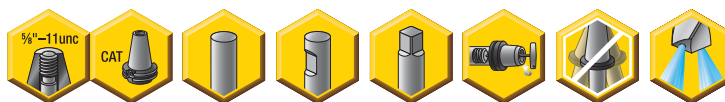
■ Spare Parts

catalog number	locknut	locknut wrench	ft. lbs.	stop screw	wrench size stop screw
CV40BER25250	LNSER25M	ER25WM	77	SS075041G	4mm & 5/32
CV40BER25600	LNSER25M	ER25WM	77	SS075041G	4mm & 5/32
CV40BER32275	LNSER32M	ER32WM	100	SS094041G	4mm & 5/32
CV40BER32600	LNSER32M	ER32WM	100	SS094041G	4mm & 5/32
CV40BER40300	LNSER40M	ER40WM	130	SS112041G	4mm & 5/32
CV40BER40600	LNSER40M	ER40WM	130	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 M98.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 ER standard straight-bore collets, see page J50.
 ER tap collets, see pages J58-J59.
 ER TCT tension-only tap collets, see page J60.
 For retention knobs, see page L45.

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

- Grip 1:1.



DA collet series	Collet Capacity		Collet Capacity	
	mm	inch	mm	inch
DA200	0,2	10	1/64	25/64
DA180	2,2	20	1/64	3/4

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■ DA Hex-CV Form AD

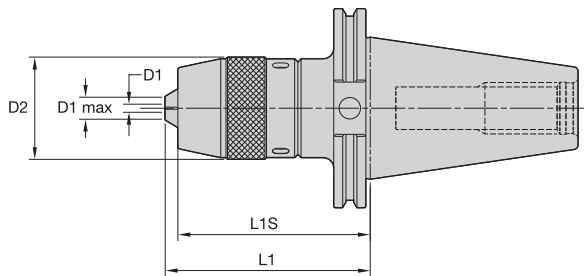
order number	catalog number	collet series	D11	L1	L9	V	lbs
1015515	CV40DA208300	DA200	1.15	3.00	1.62	1.38	2.41
1015305	CV40DA208500	DA200	1.15	5.00	1.62	3.38	3.05
1015304	CV40DA188600	DA180	1.73	6.00	1.94	3.94	3.60
1015596	CV40DA188300	DA180	1.73	3.00	1.94	.81	2.42

■ Spare Parts



catalog number	locknut	locknut wrench	ft. lbs.	stop screw	wrench size stop screw
CV40DA208500	NPA208	OEWE100	40	SS044038G	4mm & 5/32
CV40DA208300	NPA208	OEWE100	40	SS044038G	4mm & 5/32
CV40DA188600	NPA188	OEWE150	75	SS081041G	4mm & 5/32
CV40DA188300	NPA188	OEWE150	75	SS081041G	4mm & 5/32

NOTE: For retention tighten locknut to the recommended tightening torque.
Collet chuck technical section, see page M98.
Supplied with locknut and stop screw.
Locknut wrench must be ordered separately.
Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
DA standard straight-bore collets, see page J62.
DA non-pullout collets, see pages J65–J68.

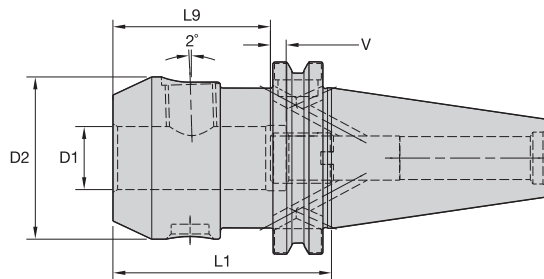


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■ DC-CV Form A

order number	catalog number	D1		D1 max		D2	L1	L1S	wrench	lbs
		mm	in	mm	in					
2262967	CV40DC13M421	1,0	.039	13,0	.512	1.969	4.210	3.726	HSW45M	3.84

NOTE: Tighten to the recommended tightening torque.
 Locking wrench not supplied.
 For retention knobs, see page L45.



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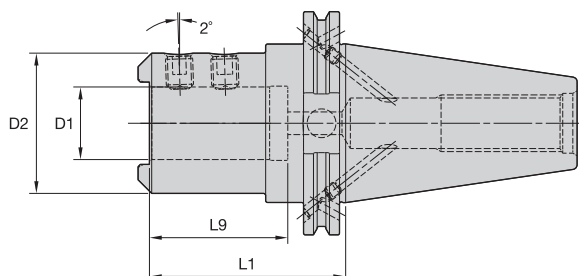
■ WN MM-CV Form B/AD



order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	Nm	stop screw	wrench size stop screw	kg
1549300	CV40BWN06M244	6	25	62	30	10	SS03M012	3mm	7	571.060	2,5mm	1,09
1549315	CV40BWN08M244	8	28	62	26	10	SS03M014	4mm	15	571.067	3mm	1,10
1549317	CV40BWN10M244	10	35	62	35	10	SS03M018	5mm	25	571.068	4mm	1,15
1549320	CV40BWN12M260	12	42	66	40	10	SS03M023	6mm	35	571.074	5mm	1,25
1549326	CV40BWN14M260	14	44	66	40	10	SS03M023	6mm	35	571.074	5mm	1,26
1549328	CV40BWN16M275	16	48	70	43	10	SS03M025	6mm	50	571.075	6mm	1,35
1549329	CV40BWN18M275	18	50	70	43	10	SS03M025	6mm	50	571.075	6mm	1,36
1549342	CV40BWN20M275	20	52	70	45	10	SS03M026	8mm	95	571.076	6mm	1,38
1549330	CV40BWN25M375	25	65	95	50	10	SS03M027	10mm	135	571.077	6mm	2,17
1549341	CV40BWN32M388	32	72	99	54	10	SS03M029	10mm	160	571.076	6mm	2,45

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw and stop screw.
Lock screw and stop screw wrenches not included.
For retention knobs, see page L45.

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



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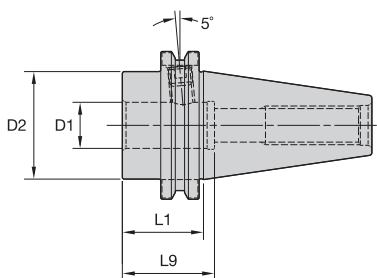
■ WD MM-CV Form B/AD



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size clamp screw	Nm	kg
1749276	CV40BWD32M343	32	60	87	63	SS03M023	6 mm	35	1,74

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrenches not included.
For retention knobs, see page L45.

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



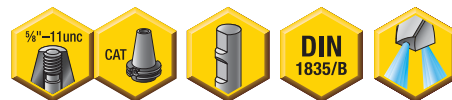
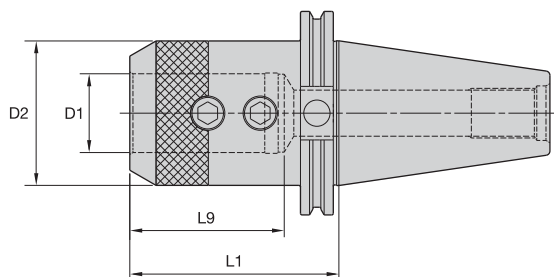
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■ SWN IN-CV Form AD (Tap Chuck Adapter)



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
1018054	CV40TA7137	.75	1.75	1.38	1.50	ELS038031PKG	3/16	15	2.20
1017938	CV40TA1137	1.00	1.75	1.38	2.81	ELS038031PKG	3/16	15	1.79

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.
For retention knobs, see page L45.



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■ EM IN-CV Form AD



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
1026404	CV40ZEM012138	1/8	.69	1.38	2.89	S1045PKG	3/32	3	1.79
1026405	CV40EM012450	1/8	.69	4.50	6.01	S1045PKG	3/32	3	2.41
1026406	CV40ZEM018138	3/16	.69	1.38	2.89	S1045PKG	3/32	3	1.79
1025921	CV40EM018250	3/16	.69	2.50	4.01	S1045PKG	3/32	3	2.22
1026407	CV40EM018450	3/16	.69	4.50	6.01	S1045PKG	3/32	3	2.41
1026408	CV40ZEM025138	1/4	.78	1.38	2.89	ELS025025PKG	1/8	5	1.82
1018427	CV40EM025250	1/4	1.00	2.50	4.01	ELS025025PKG	1/8	5	2.35
1026409	CV40EM025450	1/4	.78	4.50	6.01	ELS025025PKG	1/8	5	2.51
1026410	CV40ZEM031138	5/16	1.00	1.38	2.89	ELS031031PKG	5/32	11	1.85
1026411	CV40EM031450	5/16	1.00	4.50	6.01	ELS031031PKG	5/32	11	2.76
1026412	CV40ZEM038138	3/8	1.00	1.38	2.89	ELS038031PKG	3/16	15	1.85
1026338	CV40EM038250	3/8	1.00	2.50	4.01	ELS038031PKG	3/16	15	2.32
1013350	CV40EM038450	3/8	1.00	4.50	6.01	ELS038031PKG	3/16	15	2.69
1013351	CV40EM038650	3/8	1.00	6.50	8.01	ELS038031PKG	3/16	15	3.17
1013352	CV40ZEM044175	7/16	1.25	1.76	3.26	ELS044038PKG	7/32	20	2.00
1013353	CV40EM044450	7/16	1.25	4.50	6.01	ELS044038PKG	7/32	20	3.04
1026380	CV40ZEM050175	1/2	1.75	1.75	3.26	ELS044038PKG	7/32	20	2.27
1025922	CV40EM050262	1/2	1.38	2.62	4.13	ELS044038PKG	7/32	20	2.52
1013374	CV40EM050462	1/2	1.25	4.62	3.07	ELS044038PKG	7/32	20	3.06
1013375	CV40EM050662	1/2	1.25	6.62	8.13	ELS044038PKG	7/32	20	3.83
1026381	CV40ZEM062175	5/8	1.75	1.75	3.56	ELS056050PKG	1/4	40	2.19
1025923	CV40EM062375	5/8	1.50	3.75	3.56	DWG ELS056038	1/4	40	2.96
1013376	CV40EM062575	5/8	1.63	5.75	3.56	ELS056050PKG	1/4	40	4.21
1026382	CV40ZEM075175	3/4	1.75	1.75	2.40	ELS062050PKG	5/16	70	2.09
1025944	CV40EM075375	3/4	1.75	3.75	3.94	ELS062050PKG	5/16	70	3.21
1013377	CV40EM075575	3/4	1.75	5.75	3.94	ELS062050PKG	5/16	70	4.44
1013378	CV40ZEM088175	7/8	1.88	1.75	2.27	ELS062050PKG	5/16	70	2.13
1025945	CV40EM088400	7/8	2.00	4.00	4.19	ELS062050PKG	5/16	70	3.65
1013424	CV40EM088600	7/8	1.88	6.00	4.19	ELS062050PKG	5/16	70	4.86
1026383	CV40ZEM100175	1	1.75	1.75	2.64	DWG ELS075044	3/8	110	1.78
1025946	CV40EM100400	1	2.00	4.00	4.49	ELS075056PKG	3/8	110	3.39
1013425	CV40EM100600	1	2.00	6.00	4.49	ELS075056PKG	3/8	110	5.04
1013426	CV40ZEM125200	1 1/4	2.25	2.00	2.35	DWG ELS075050	3/8	110	2.25
1025947	CV40EM125425	1 1/4	2.50	4.25	2.39	ELS075062PKG	3/8	110	4.96
1013427	CV40EM125625	1 1/4	2.50	6.25	2.39	ELS075062PKG	3/8	110	7.47
1025986	CV40EM150462	1 1/2	2.75	4.63	2.82	ELS075069PKG	3/8	110	5.80
1013428	CV40EM150662	1 1/2	2.75	6.62	2.82	ELS075069PKG	3/8	110	8.76

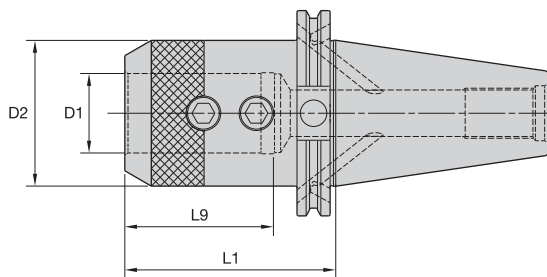
CV40Z toolholders deviate from ANSI-B5-50 standard. The 1.750" diameter in front of the V-flange has been eliminated to achieve short gage lengths.

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

Supplied with lock screw.

Lock screw wrench not included.

For retention knobs, see page L45.



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■ EM IN-CV Form B/AD

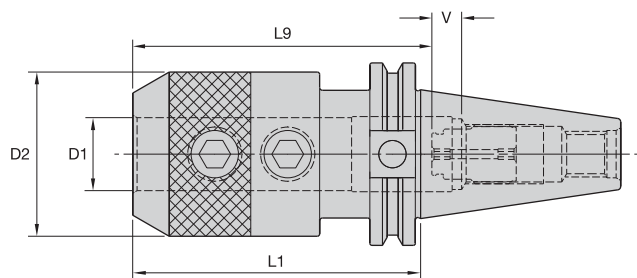
order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
1261613	CV40BEM050262	1/2	1.38	2.62	4.13	ELS044038PKG	7/32	20	2.48
1261614	CV40BEM062375	5/8	1.50	3.75	3.56	ELS056050PKG	1/4	40	2.95
1261615	CV40BEM075375	3/4	1.75	3.75	3.94	ELS062050PKG	5/16	70	3.18
1261616	CV40BEM100400	1	2.00	4.00	4.49	ELS075056PKG	3/8	110	3.37
1261617	CV40BEM125425	1 1/4	2.50	4.25	2.39	ELS075062PKG	3/8	110	4.97

NOTE: Do not overtighten lock screw; use torque recommendations above.
 Supplied with lock screw.
 Lock screw wrench not included.
 For retention knobs, see page L45.

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

CAT40 Shank Tools

Straight Shank Adapters • Straight Shank with Flat Adapters



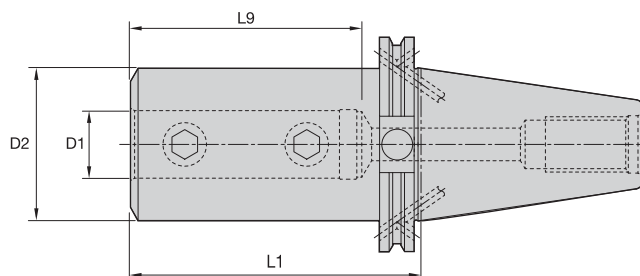
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■ SS IN-CV Form AD



order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	ft. lbs.	stop screw	wrench size stop screw	lbs
1018426	CV40SS100400	1	2.25	4.00	3.75	.63	ELS075062PKG	3/8	110	CSS081125	1/8	4.06

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screws and stop screw.
Lock screw and stop screw wrench not included.
For retention knobs, see page L45.



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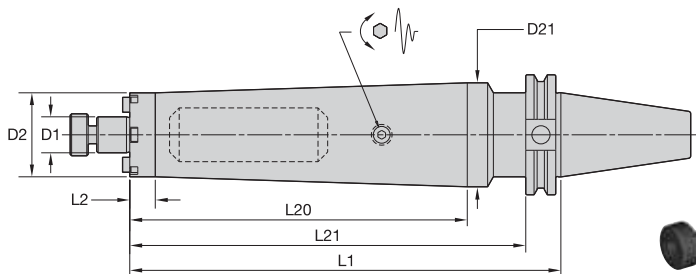
■ SSF IN-CV Form B/AD



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
1749368	CV40BSSF075275	3/4	1.75	2.75	2.25	ELS062050PKG	5/16	70	2.78
1749369	CV40BSSF100450	1	2.00	4.50	3.25	DWG ELS075050	3/8	110	4.12
1749370	CV40BSSF125475	1 1/4	2.50	4.75	3.50	ELS075056PKG	3/8	110	5.44
1749471	CV40BSSF150575	1 1/2	2.75	5.75	4.00	ELS075056PKG	3/8	110	7.01

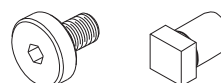
NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.
For retention knobs, see page L45.

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



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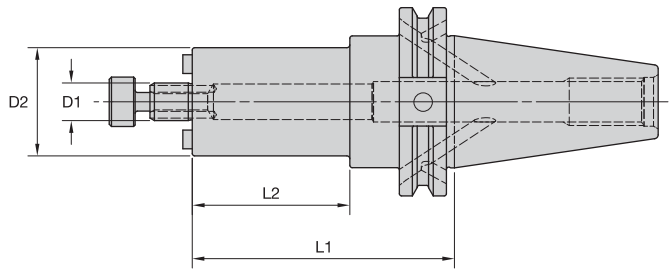
■ SMC TD Lock IN-CV Form B/AD



order number	catalog number	D1	D2	D21	L1	L2	L20	L21	lock screw	drive key	wrench size lock screw	lbs
4136187	CV40BTDSMC0750900	3/4	1.75	2.17	9.00	.53	7.03	8.25	KLS07	KDK05	1/4	8.34
4136188	CV40BTDSMC1000900	1	2.19	—	9.00	8.25	—	—	KLS10	KDK06	5/16	9.99

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 L38.
 Lock screw wrench not included.
 For retention knobs, see page L45.

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



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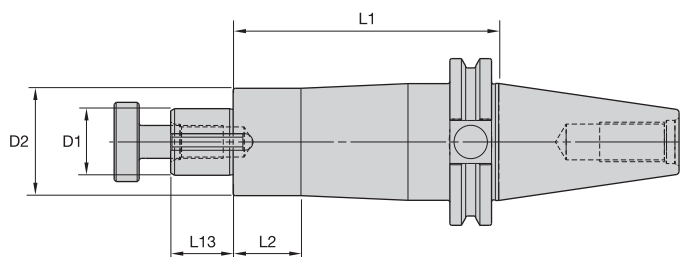
■ SMC Lock IN-CV Form B/AD



order number	catalog number	D1	D2	L1	L2	lock screw	drive key	wrench size lock screw	lbs
3641491	CV40BSM2C050350	1/2	1.20	3.50	2.09	KLS05	KDK04	3/16	2.80
3641490	CV40BSMC050350	1/2	1.44	3.50	2.09	KLS05	KDK04	3/16	3.05
3641514	CV40BSM2C075350	3/4	1.46	3.50	2.09	KLS07	—	1/4	3.12
3641516	CV40BSM2C075600	3/4	1.46	6.00	5.25	KLS07	—	1/4	4.14
3641489	CV40BSMC050138	1/2	1.75	1.38	.63	KLS05	KDK04	3/16	2.18
3641492	CV40BSMC075138	3/4	1.75	1.38	.63	KLS07	KDK05	1/4	2.25
3641513	CV40BSMC075350	3/4	1.75	3.50	2.09	KLS07	KDK05	1/4	3.56
3641515	CV40BSMC075600	3/4	1.75	6.00	5.25	KLS07	KDK05	1/4	5.10
3641518	CV40ZBSM2C100100	1	2.19	1.00	.25	KLS10	KDK06	5/16	2.21
3641520	CV40BSM2C100206	1	2.19	2.06	1.31	KLS10	KDK06	5/16	2.98
3641522	CV40BSM2C100400	1	2.19	4.00	3.25	KLS10	KDK06	5/16	4.30
3641524	CV40BSM2C100600	1	2.19	6.00	5.25	KLS10	KDK06	5/16	5.59
3641517	CV40ZBSMC100100	1	2.75	1.00	.25	KLS10	KDK06	5/16	2.33
3641519	CV40BSMC100206	1	2.75	2.06	1.31	KLS10	KDK06	5/16	3.28
3641521	CV40BSMC100400	1	2.75	4.00	3.25	KLS10	KDK06	5/16	4.70
3641523	CV40BSMC100600	1	2.75	6.00	5.25	KLS10	KDK06	5/16	5.99
3641525	CV40BSMC125212	1 1/4	2.88	2.12	1.37	KLS12	KDK08	5/16	3.79
3641526	CV40BSMC125400	1 1/4	2.88	4.00	3.25	KLS12	KDK08	5/16	5.08
3641527	CV40BSMC150241	1 1/2	3.81	2.41	1.66	KLS15	KDK10	3/8	5.36
3641528	CV40BSMC150400	1 1/2	3.81	4.00	3.25	KLS15	KDK10	3/8	6.85

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 L38.
 Lock screw wrench not included.
 For retention knobs, see page L45.

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



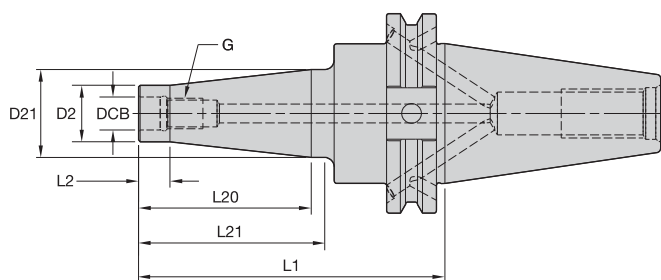
ERICKSON

■ SA IN-CV Form AD



order number	catalog number	D1	D2	L1	L13	L2	lock screw	wrench size lock screw	drive key	lbs
1261699	CV40SA062400	5/8	1.25	4.00	.78	2.63	KLS07	1/4	DWG SDK062088	3.10
1026215	CV40SA100400	1	1.61	4.00	.94	1.00	KLS10	5/16	DWG SDK100106	3.97
1026216	CV40SA125400	1 1/4	1.86	4.00	1.09	3.25	KLS12	5/16	DWG SDK125119	4.97

NOTE: Do not overtighten lock screw.
Supplied with lock screw and drive key.
Lock screw wrench not included.
For retention knobs, see page L45.



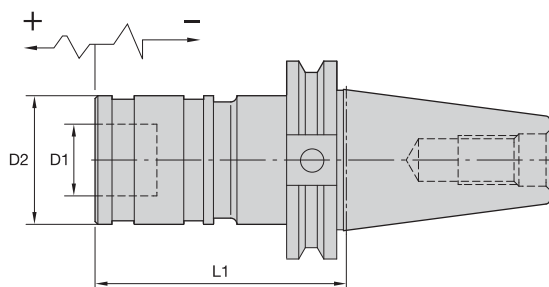
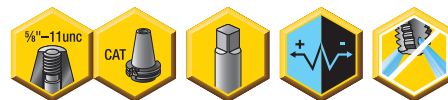
ERICKSON

■ ST-CV Form B/AD

order number	catalog number	DCB	G	D2	D21	L1	L2	L20	L21	kg
4073528	CV40BST06M228	6,5	M6	10	13	58	10	18	19	1,00
4073529	CV40BST06M386	6,5	M6	10	23	98	10	55	59	1,07
4073530	CV40BST08M228	8,5	M8	13	15	58	10	18	19	1,00
4073531	CV40BST08M386	8,5	M8	13	23	98	10	55	59	1,07
4073532	CV40BST10M228	10,5	M10	18	20	58	10	18	19	1,04
4073643	CV40BST10M386	10,5	M10	18	28	98	10	55	59	1,19
4073644	CV40BST12M228	12,5	M12	21	24	58	10	18	19	1,05
4073645	CV40BST12M386	12,5	M12	21	31	98	10	55	59	1,22
4073646	CV40BST16M228	17,0	M16	29	—	58	19	—	—	1,07
4073647	CV40BST16M386	17,0	M16	29	34	98	10	55	59	1,32

NOTE: For retention knobs, see page L45.

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



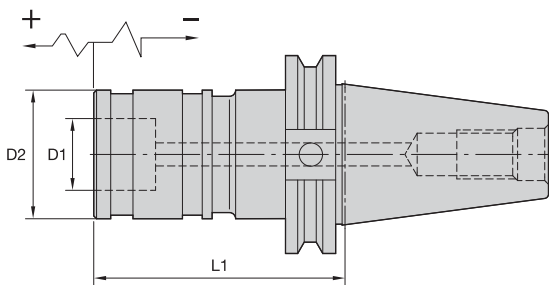
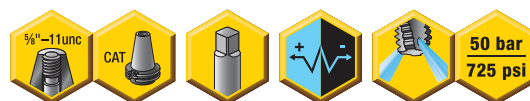
ERICKSON

■ RC-CV Form A

order number	catalog number	adapter size	tap size			D1	D2	L1	tension	compression	kg
			mm	in							
1615978	CV40TCRC1297	1	M1 - M14	#0 - 9/16		19	36	75	15,0	15,0	1,21
1615979	CV40TCRC2393	2	M5 - M24	5/16 - 7/8		31	53	98	25,0	25,0	1,62

NOTE: Quick-change tap adapters are available and must be ordered separately; see page J76.
For retention knobs, see page L45.

CAT40 Shank Tools



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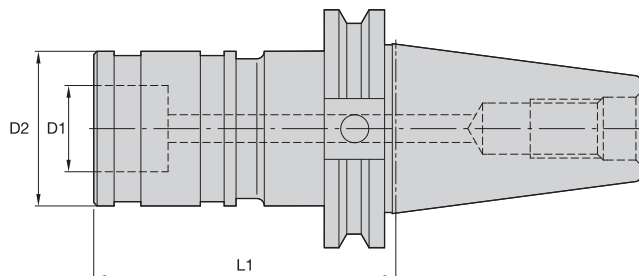
■ RC Cool-CV Form AD

order number	catalog number	adapter size	tap size			D1	D2	L1	tension	compression	kg
			mm	in							
1615986	CV40CHTCRC1382	1	M1 - M14	#0 - 9/16		19	36	97	15,0	15,0	1,41
1615987	CV40CHTCRC2524	2	M5 - M24	5/16 - 7/8		31	53	133	20,0	20,0	2,40

NOTE: Quick-change tap adapters are available and must be ordered separately; see page J76.
For retention knobs, see page L45.

CAT40 Shank Tools

Tap Chucks RC Solid • Morse Taper Adapters

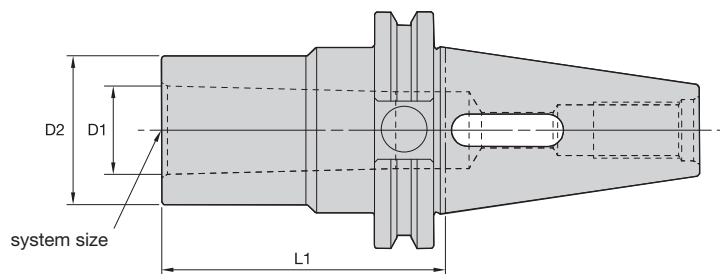


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■ STRC-CV Form AD

order number	catalog number	adapter size	tap size		D1	D2	L1	lbs
			mm	in				
1615969	CV40CSTRC1290	1	M1 - M14	#0 - 9/16	.75	1.26	2.88	2.60
1615971	CV40CSTRC2350	2	M5 - M24	5/16 - 7/8	1.22	1.97	3.50	3.50

NOTE: Quick-change tap adapters are available and must be ordered separately; see page J76.
For retention knobs, see page L45.

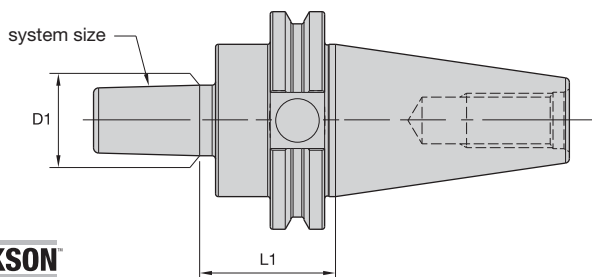


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■ MT-CV Form A

order number	catalog number	system size	D1	D2	L1	lbs
1025948	CV40MT1175	1	.48	.98	1.75	2.21
1025949	CV40MT2244	2	.70	1.26	2.44	2.30
1025950	CV40MT3300	3	.94	1.57	3.00	2.49
1025987	CV40MT4388	4	1.23	1.89	3.88	2.86

NOTE: For retention knobs, see page L45.



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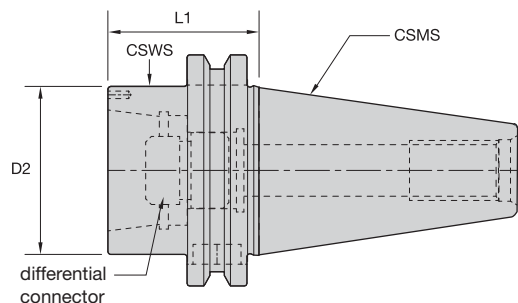
■ JT-CV Form A



order number	catalog number	system size	D1	L1	lbs
1025951	CV40JT2244	2	.56	1.57	2.33
1025953	CV40JT3278	3	.81	1.56	2.45
1025952	CV40JT33256	33	.62	1.56	2.32

NOTE: For retention knobs, see page L45.

• Differential connector included.



■ CV to KR Adapters B/AD • Metric

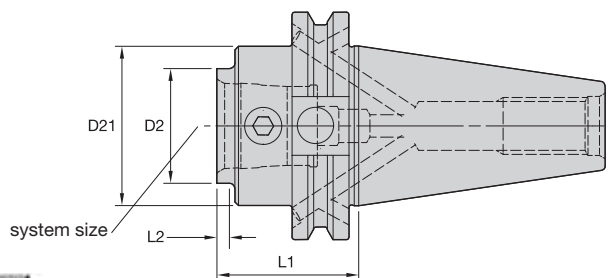
order number	catalog number	CSMS system size	CSWS system size	D2	L1	differential connector	kg	reference head
3554366	CV40BKR32157	CV40	KR32	47	40	KRDCKR32M	1,08	SVS00B,0B,1B,2B,3B,SVUBB1,BB2
3554367	CV40BKR50236	CV40	KR50	65	60	KRDCKR50M	1,23	SVS4B,5B,SVU65,SVUBB2

■ CV to KR Adapters B/AD • Inch

order number	catalog number	CSMS system size	CSWS system size	D2	L1	differential connector	lbs	reference head
3554366	CV40BKR32157	CV40	KR32	1.85	1.581	KRDCKR32M	2.40	SVS00B,0B,1B,2B,3B,SVUBB1,BB2
3554367	CV40BKR50236	CV40	KR50	2.56	2.368	KRDCKR50M	2.70	SVS4B,5B,SVU65,SVUBB2

NOTE: For more information on Romicon boring systems, see the Kennametal Innovations Master Catalog Cutting Tools 2013.

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



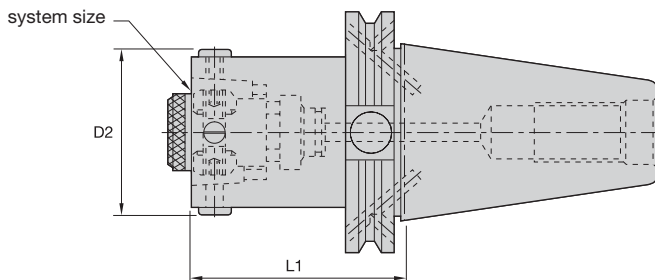
■ KM-CV Form B/AD



order number	catalog number	system size	D2	D21	L1	L2	KM spare parts package	wrench size actuation screw	ft. lbs.	lbs
2992433	CV40BKM32157	KM32	1.26	1.75	1.58	.37	KM32PKG3L	5mm	6	2.15
2992434	CV40BKM32354	KM32	1.26	1.75	3.54	2.14	KM32PKG3S	5mm	6	2.77
2992435	CV40BKM40157	KM40	1.58	1.75	1.58	.18	KM40PKG3L	6mm	9	2.12
2992436	CV40BKM40394	KM40	1.58	1.75	3.94	2.56	KM40PKG3S	6mm	9	3.29
2992437	CV40BKM50354	KM50	1.97	—	3.54	2.79	KM50PKG3S	10mm	20	3.51
2992438	CV40BKM50472	KM50	1.97	—	4.72	3.97	KM50PKG3S	10mm	20	4.23

NOTE: Do not overtorque actuation screw; use torque recommendations above.
Supplied with KM actuation mechanism.
For retention knobs, see page L45.

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



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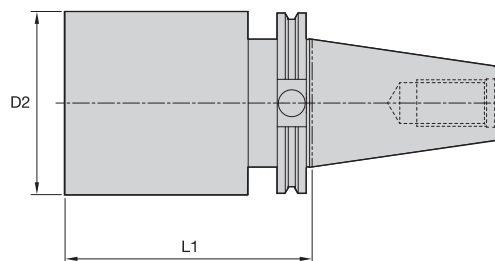
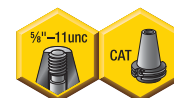
■ HSK-CV Form B/AD

order number	catalog number	system size	D2	L1	wrench size actuation screw	ft. lbs.	lbs
1533057	CV40BHSK63295	HSK63	2.76	2.95	5mm	15	2.65

NOTE: Do not overtorque actuation screw; use torque recommendations above.
Supplied with actuation mechanism and sealing ring.
For retention knobs, see page L45.

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

- Machinable front 20–30 HRC.



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■ BB-CV Form A

order number	catalog number	D2	L1	lbs
1020634	CV40BB400120	4.00	12.00	39.89
1020563	CV40BB400600	4.00	6.00	18.55

NOTE: For retention knob, see page L45.



ERICKSON™ CAT V-Flange Shank Tooling System • CV50 Series

Primary Application

ERICKSON V-Flange CAT Taper Tooling is manufactured from premium materials and meets or exceeds the latest ANSI B5.50 and ISO-1947 taper accuracy of AT3 specification standards. The CV50 tools are either pre-balanced to a high specification or balanced-by-design. For high speed applications Kennametal recommends that the complete toolholder assembly (toolholder, retention knobs, collets, hardware, and cutting tools) be balanced as one entity. Exact RPM limits can only be determined by considering machine and spindle configurations in conjunction with tooling design and safety limits factored as a complete system.



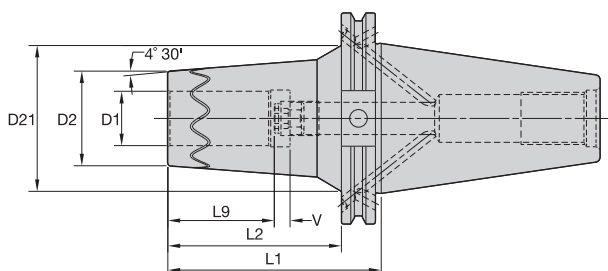


SAFE-LOCK™
by HAIMER

Features and Benefits

- ANSI B5.50 7/24 taper.
- Standard 1-8 drawbar thread.
- Taper accuracy of AT3 specification or better.
- All tools set to form AD coolant specification.
Many can be converted to form B style.
- Maximum 100 bar (1,500 psi) coolant pressure.

- **SAFE-LOCK™**, innovative and unique non-slip system.
- Suitable for carbide and HSS cutting tools.
- Need ≥ 10 kW shrink unit.



ERICKSON™

■ TT SF MM-CV Z FORM B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	kg
5089650	CV50ZBSFTT12M315	12	27	55	80	61	37	10	2,95
5089651	CV50ZBSFTT14M315	14	33	43	80	61	37	10	3,08
5089652	CV50ZBSFTT16M315	16	33	43	80	61	37	10	3,04
5089653	CV50ZBSFTT18M315	18	45	54	80	61	40	10	3,39
5089654	CV50ZBSFTT20M315	20	45	54	80	61	42	10	3,35
5089655	CV50ZBSFTT25M394	25	44	68	100	81	48	10	3,63

**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

**Cutting Tool Shank Requirements
inch (industry standard)**

cutting tool shank diameters	tolerance	
1/2 & 5/8		.0000/-0.0004
3/4, 7/8, 1		.0000/-0.0005

■ TT SF IN-CV Z FORM B/AD

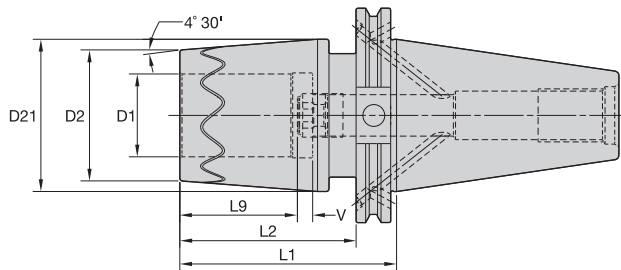
order number	catalog number	D1	D2	D21	L1	L2	L9	V	lbs
5089656	CV50ZBSFTT050315	1/2	1.06	2.17	3.15	2.40	1.46	.39	6.49
5089657	CV50ZBSFTT062315	5/8	1.31	1.69	3.15	2.40	1.46	.39	6.71
5089658	CV50ZBSFTT075315	3/4	1.76	2.14	3.15	2.40	1.65	.39	7.41
5089659	CV50ZBSFTT100394	1	1.73	2.68	3.94	3.19	1.89	.39	7.33

CV50Z toolholders deviate from ANSI-B5.50 standard. The 1.750" hub in front of the V-flange has been eliminated to achieve short gage lengths.

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder. Shrink Fit technical section, see page M78. Shrink Fit accessories, see pages L12-L13. HSK coolant unit and wrench are available and must be ordered separately; see page L44.

form AD	✓					
form B						
				40	(2x) SFV40	1,5mm
				50	(2x) SFV50	1,5mm

- **SAFE-LOCK™**, innovative and unique non-slip system.
- Ultra short and heavy-duty design.
- Suitable for carbide and HSS cutting tools.
- Need ≥ 20 kW shrink unit.



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■ TT SF HD MM-CV Z FORM B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	kg
5089660	CV50ZBSFHDTT25M354	25	63	71	90	71	48	10	4,29
5089661	CV50ZBSFHDTT32M354	32	70	78	90	71	51	10	4,44
5089662	CV50ZBSFHDTT40M394	40	82	90	100	81	78	10	5,07
5089663	CV50ZBSFHDTT50M551	50	82	94	140	121	78	10	6,77

Cutting Tool Shank Requirements
metric (ISO standard)

cutting tool shank diameter	tolerance	
25	h6	0,000/-0,013
32, 40, & 50	h6	0,000/-0,016

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1, 1-1/4, 1-1/2, & 2	.0000/- .0005

■ TT SF HD IN-CV Z FORM B/AD

order number	catalog number	D1	D2	D21	L1	L9	V	lbs
5089664	CV50ZBSFHDTT100354	1	2.48	2.81	3.54	1.89	.39	9.44
5089665	CV50ZBSFHDTT125354	1 1/4	2.76	3.07	3.54	2.01	.39	9.81
5089666	CV50ZBSFHDTT150394	1 1/2	3.23	3.54	3.94	3.07	.39	11.35
5089667	CV50ZBSFHDTT200551	2	3.23	3.70	5.51	3.07	.39	14.84

CV50Z toolholders deviate from ANSI-B5.50 standard. The 2.750" hub in front of the V-flange has been eliminated to achieve short gage lengths.

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

Shrink Fit technical section, see page M78.

Shrink Fit accessories, see pages L12–L13.

HSK coolant unit and wrench are available and must be ordered separately; see page L44.

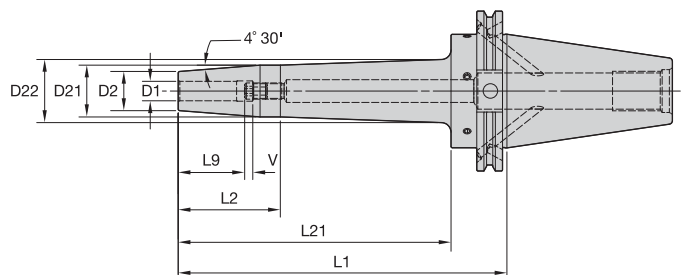
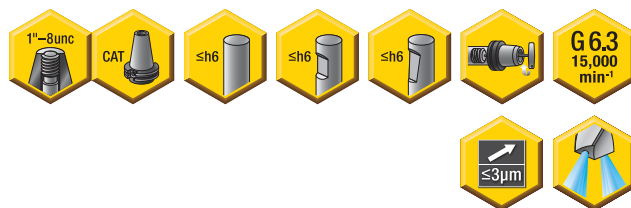
form AD					
form B				40	(2x) SFV40
				50	(2x) SFV50
					1,5mm

CAT50 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-CV Form B/AD



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	kg
3683508	CV50BHPVTT06M350	6	21	27	—	89	54	—	26	10	TTSS05014M	2,5mm	3,13
3683509	CV50BHPVTT06M800	6	21	27	35	203	50	168	26	10	TTSS05014M	2,5mm	3,74
3683510	CV50BHPVTT08M350	8	21	27	—	89	54	—	26	10	TTSS06014M	3mm	3,12
3683511	CV50BHPVTT08M800	8	21	27	35	203	50	168	26	10	TTSS06014M	3mm	3,73
3683512	CV50BHPVTT10M375	10	24	32	—	95	60	—	31	10	TTSS08014M	4mm	3,21
3683513	CV50BHPVTT10M800	10	24	32	39	203	63	168	31	10	TTSS08014M	4mm	3,98
3615227	CV50BHPVTT12M375	12	24	32	—	95	60	—	36	10	TTSS10014M	5mm	3,17
3615228	CV50BHPVTT12M800	12	24	32	39	203	63	168	36	10	TTSS10014M	5mm	3,88
3615229	CV50BHPVTT14M375	14	27	34	—	95	60	—	36	10	TTSS10014M	5mm	3,22
3615230	CV50BHPVTT14M800	14	27	34	41	203	63	168	36	10	TTSS10014M	5mm	3,98
3615231	CV50BHPVTT16M375	16	27	34	—	95	60	—	39	10	TTSS12014M	6mm	3,19
3615232	CV50BHPVTT16M800	16	27	34	41	203	63	168	39	10	TTSS12014M	6mm	3,96
3615233	CV50BHPVTT18M400	18	33	42	—	102	67	—	39	10	TTSS12014M	6mm	3,40
3615234	CV50BHPVTT18M800	18	33	42	49	203	70	168	39	10	TTSS12014M	6mm	4,52
3615235	CV50BHPVTT20M400	20	33	42	—	102	67	—	41	10	TTSS16014M	8mm	3,36
3615236	CV50BHPVTT20M800	20	33	42	49	203	70	168	41	10	TTSS16014M	8mm	4,44
3615237	CV50BHPVTT25M400	25	44	53	—	102	67	—	47	10	TTSS16014M	8mm	3,67
3615238	CV50BHPVTT25M800	25	44	53	60	203	70	168	47	10	TTSS16014M	8mm	5,44
3615239	CV50BHPVTT32M400	32	44	53	—	102	67	—	51	10	TTSS16014M	8mm	3,51
3615240	CV50BHPVTT32M800	32	44	53	60	203	70	168	51	10	TTSS16014M	8mm	5,28

(continued)

(TT GP HPV continued)

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameters	tolerance
1/4, 5/16, & 3/8	.0000/- .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-CV Form B/AD



order number	catalog number	D1	D2	D21	L1	D22	L2	L9	L21	V	stop screw	wrench size stop screw	lbs
3683498	CV50BHPVTT025350	1/4	.83	1.06	3.50	—	2.13	1.02	—	.39	TTSS05014M	2,5mm	6.89
3683499	CV50BHPVTT025800	1/4	.83	1.06	8.00	1.38	1.97	1.02	6.63	.39	TTSS05014M	2,5mm	8.25
3683500	CV50BHPVTT031350	5/16	.83	1.06	3.50	—	2.13	1.02	—	.39	TTSS06014M	3mm	6.88
3683501	CV50BHPVTT031800	5/16	.83	1.06	8.00	1.38	1.97	1.02	6.63	.39	TTSS06014M	3mm	8.23
3683502	CV50BHPVTT038375	3/8	.95	1.26	3.75	—	2.38	1.22	—	.39	TTSS08014M	4mm	7.07
3683503	CV50BHPVTT038800	3/8	.95	1.26	8.00	1.55	2.48	1.22	6.63	.39	TTSS08014M	4mm	8.77
3683504	CV50BHPVTT044375	7/16	.95	1.26	3.75	—	2.38	1.42	—	.39	TTSS10014M	5mm	7.04
3683505	CV50BHPVTT044800	7/16	.95	1.26	8.00	1.55	2.48	1.42	6.63	.39	TTSS10014M	5mm	8.75
3615189	CV50BHPVTT050375	1/2	.95	1.26	3.75	—	2.38	1.42	—	.39	TTSS10014M	5mm	6.95
3615190	CV50BHPVTT050800	1/2	.95	1.26	8.00	1.55	2.48	1.42	6.63	.39	TTSS10014M	5mm	8.52
3615191	CV50BHPVTT056375	9/16	1.06	1.34	3.75	—	2.38	1.42	—	.39	TTSS10014M	5mm	7.06
3615192	CV50BHPVTT062375	5/8	1.06	1.34	3.75	—	2.38	1.54	—	.39	TTSS12014M	6mm	7.01
3615193	CV50BHPVTT062800	5/8	1.06	1.34	8.00	1.62	2.48	1.54	6.63	.39	TTSS12014M	6mm	8.72
3615194	CV50BHPVTT068400	11/16	1.30	1.65	4.00	—	2.63	1.54	—	.39	TTSS12014M	6mm	7.48
3615195	CV50BHPVTT075400	3/4	1.30	1.65	4.00	—	2.63	1.61	—	.39	TTSS16014M	8mm	7.41
3615196	CV50BHPVTT075800	3/4	1.30	1.65	8.00	1.92	2.76	1.61	6.63	.39	TTSS16014M	8mm	9.80
3615197	CV50BHPVTT088400	7/8	1.30	1.65	4.00	—	2.63	1.61	—	.39	TTSS16014M	8mm	7.32
3615198	CV50BHPVTT088800	7/8	1.30	1.65	8.00	1.92	2.76	1.61	6.63	.39	TTSS16014M	8mm	9.71
3615199	CV50BHPVTT100400	1	1.73	2.08	4.00	—	2.63	1.85	—	.39	TTSS16014M	8mm	8.05
3615200	CV50BHPVTT100800	1	1.73	2.08	8.00	2.35	2.76	1.85	6.63	.39	TTSS16014M	8mm	11.97
3615201	CV50BHPVTT125400	1 1/4	1.73	2.08	4.00	—	2.63	2.01	—	.39	TTSS16014M	8mm	7.74
3615202	CV50BHPVTT125800	1 1/4	1.73	2.08	8.00	2.35	2.76	2.01	6.63	.39	TTSS16014M	8mm	11.65
3683506	CV50BHPVTT150450	1 1/2	2.36	2.75	4.50	—	3.75	2.01	—	.39	TTSS20014M	10mm	9.81
3683507	CV50BHPVTT200450	2	2.72	3.11	4.50	—	3.75	2.20	—	.39	TTSS20014M	10mm	10.07

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

Shrink fit technical section, see page M78.

Supplied with stop screw.

Adjusting stop screw gage, see page M81.

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

For retention knobs, see page L45.

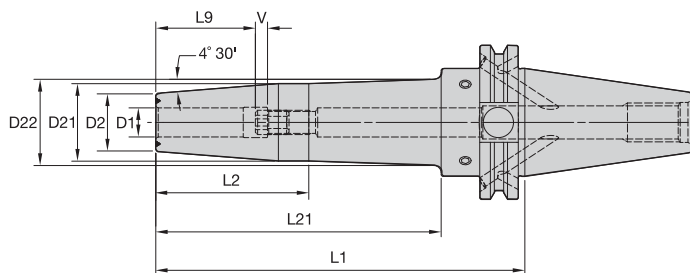
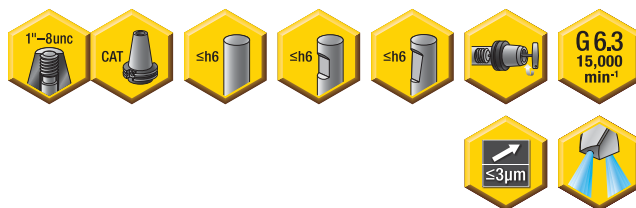
Form AD						
Form B						
		40	(2x) MS2221S	2,5mm		
		50	(2x) MS1296S	3mm		

CAT50 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

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■ TT HT HPV MM-CV Form B/AD



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	kg
3618044	CV50BHPVTTH12M375	12	24	32	—	95	60	—	36	10	TTSS10014M	5mm	3,17
3618045	CV50BHPVTTH12M800	12	24	32	39	203	63	168	36	10	TTSS10014M	5mm	3,88
3618046	CV50BHPVTTH14M375	14	27	34	—	95	60	—	36	10	TTSS10014M	5mm	3,21
3618047	CV50BHPVTTH14M800	14	27	34	41	203	63	168	36	10	TTSS10014M	5mm	3,98
3618048	CV50BHPVTTH16M375	16	27	34	—	95	60	—	39	10	TTSS12014M	6mm	3,19
3618049	CV50BHPVTTH16M800	16	27	34	41	203	63	168	39	10	TTSS12014M	6mm	3,96
3618050	CV50BHPVTTH18M400	18	33	42	—	102	67	—	39	10	TTSS12014M	6mm	3,40
3618051	CV50BHPVTTH18M800	18	33	42	49	203	70	168	39	10	TTSS12014M	6mm	4,52
3618052	CV50BHPVTTH20M400	20	33	42	—	102	67	—	41	10	TTSS16014M	8mm	3,36
3618053	CV50BHPVTTH20M800	20	33	42	49	203	70	168	41	10	TTSS16014M	8mm	4,44
3618054	CV50BHPVTTH25M400	25	44	53	—	102	67	—	47	10	TTSS16014M	8mm	3,67
3618055	CV50BHPVTTH25M800	25	44	53	60	203	70	168	47	10	TTSS16014M	8mm	5,44
3618056	CV50BHPVTTH32M400	32	44	53	—	102	67	—	51	10	TTSS16014M	8mm	3,51
3618057	CV50BHPVTTH32M800	32	44	53	60	203	70	168	51	10	TTSS16014M	8mm	5,28

(continued)

(TT HT HPV continued)

Cutting Tool Shank Requirements
inch (industry standard)

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

■ TT HT HPV IN-CV Form B/AD



order number	catalog number	D1	D2	D21	D22	L1	L2	L9	L21	V	stop screw	wrench size stop screw	lbs
3618016	CV50BHPVTTH050375	1/2	.95	1.26	—	3.75	2.38	1.42	—	.39	TTSS10014M	5mm	6.95
3618017	CV50BHPVTTH050800	1/2	.95	1.26	1.55	8.00	2.48	1.42	6.63	.39	TTSS10014M	5mm	8.52
3618018	CV50BHPVTTH056375	9/16	1.06	1.34	—	3.75	2.38	1.42	—	.39	TTSS10014M	5mm	7.06
3618019	CV50BHPVTTH062375	5/8	1.06	1.34	—	3.75	2.38	1.54	—	.39	TTSS12014M	6mm	7.01
3618020	CV50BHPVTTH062800	5/8	1.06	1.34	1.62	8.00	2.48	1.54	6.63	.39	TTSS12014M	6mm	8.72
3618021	CV50BHPVTTH068400	11/16	1.30	1.65	—	4.00	2.63	1.54	—	.39	TTSS12014M	6mm	7.48
3618022	CV50BHPVTTH075400	3/4	1.30	1.65	—	4.00	2.63	1.61	—	.39	TTSS16014M	8mm	7.41
3618023	CV50BHPVTTH075800	3/4	1.30	1.65	1.92	8.00	2.76	1.61	6.63	.39	TTSS16014M	8mm	9.80
3618024	CV50BHPVTTH088400	7/8	1.30	1.65	—	4.00	2.63	1.61	—	.39	TTSS16014M	8mm	7.32
3618025	CV50BHPVTTH088800	7/8	1.30	1.65	1.92	8.00	2.76	1.61	6.63	.39	TTSS16014M	8mm	9.72
3618026	CV50BHPVTTH100400	1	1.73	2.08	—	4.00	2.63	1.85	—	.39	TTSS16014M	8mm	8.05
3618027	CV50BHPVTTH100800	1	1.73	2.08	2.35	8.00	2.76	1.85	6.63	.39	TTSS16014M	8mm	11.97
3618028	CV50BHPVTTH125400	1 1/4	1.73	2.08	—	4.00	2.63	2.01	—	.39	TTSS16014M	8mm	7.74
3618029	CV50BHPVTTH125800	1 1/4	1.73	2.08	2.35	8.00	2.76	2.01	6.63	.39	TTSS16014M	8mm	11.65

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

Shrink Fit technical section, see page M78.

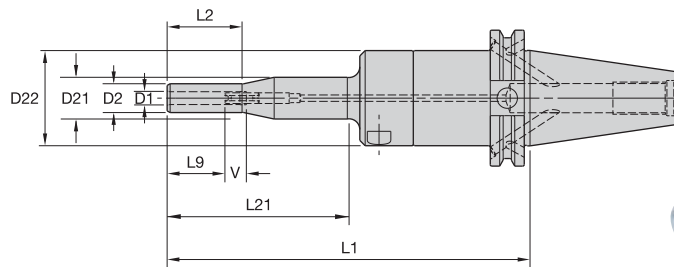
Supplied with stop screw.

Adjusting stop screw gage, see page M81.

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

For retention knobs, see page L45.

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



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■ HC Slim T MM-CV Form B/AD

order number	catalog number	D1	D2	D21	D22	L1	L2	L9	L21	V	kg
3019251	CV50BHCSLT06M787	6	13,5	19,5	44	200	35	27	85	10	4,17
3019252	CV50BHCSLT08M787	8	15,5	19,5	44	200	35	27	85	10	4,18
3019253	CV50BHCSLT10M787	10	17,5	44,5	70	200	85	31	141	10	4,17

■ Spare Parts



catalog number	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw
CV50BHCSLT06M787	170.135	5mm	170.002	2,5mm
CV50BHCSLT08M787	170.135	5mm	170.002	2,5mm
CV50BHCSLT10M787	170.135	5mm	170.003	3mm

■ HC Slim T IN-CV Form B/AD

order number	catalog number	D1	D2	D21	D22	L1	L2	L9	V	lbs
3019260	CV50BHCSLT025787	.25	.54	.77	1.75	7.87	1.38	1.06	.39	9.22
3019261	CV50BHCSLT038787	.38	.69	1.75	2.75	7.87	3.35	1.22	.39	9.19

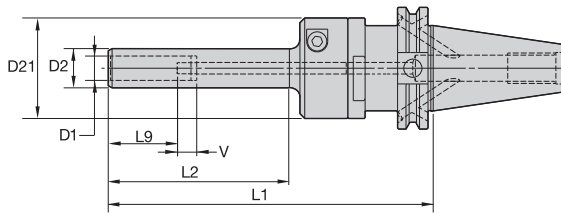
■ Spare Parts



catalog number	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw
CV50BHCSLT025787	170.135	5mm	170.002	2,5mm
CV50BHCSLT038787	170.135	5mm	170.003	3mm

(continued)

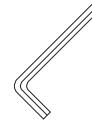
(HC Slim continued)



■ HC Slim MM-CV Form B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	kg
2508155	CV50BHCSL12M787	12	19,5	44,5	200	95	36	10	3,91
3019254	CV50BHCSL14M787	14	21,5	52,5	200	95	36	10	4,25
3019255	CV50BHCSL16M787	16	23,5	52,5	200	95	39	10	4,27
3019256	CV50BHCSL18M787	18	25,5	52,5	200	95	39	10	4,31
2508156	CV50BHCSL20M787	20	27,5	52,5	200	95	41	10	4,32

■ Spare Parts

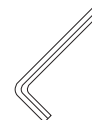


catalog number	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw
CV50BHCSL12M787	170.135	5mm	170.002	2,5mm
CV50BHCSL14M787	170.135	5mm	170.002	2,5mm
CV50BHCSL16M787	170.135	5mm	170.002	2,5mm
CV50BHCSL18M787	170.135	5mm	170.002	2,5mm
CV50BHCSL20M787	170.135	5mm	170.002	2,5mm

■ HC Slim IN-CV Form B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	lbs
2508157	CV50BHCSL050787	.50	.81	2.07	7.87	3.74	1.42	.39	9.28
3019262	CV50BHCSL062787	.63	.93	2.07	7.87	3.74	1.54	.39	9.41
2508158	CV50BHCSL075787	.75	1.06	2.07	7.87	3.74	1.61	.39	9.52

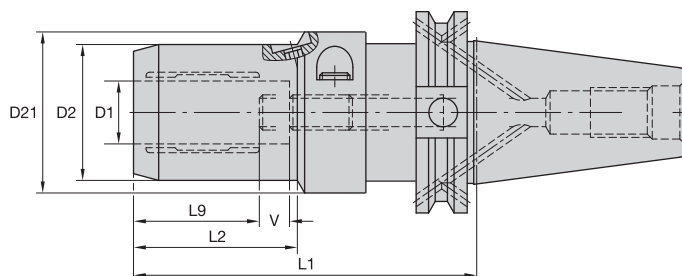
■ Spare Parts



catalog number	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw
CV50BHCSL050787	170.135	5mm	170.002	2,5mm
CV50BHCSL062787	170.135	5mm	170.002	2,5mm
CV50BHCSL075787	170.135	5mm	170.002	2,5mm

NOTE: Do not overtorque actuation screw. Use supplied wrench and tighten by hand until stop is felt.
 Hydraulic chuck technical section, see page M84.
 Supplied with stop screw and actuation wrench.
 Unable to use SEFAS™ chamfering rings on this design.
 Reduction sleeves are available and must be ordered separately; see page J2.
 For retention knobs, see page L45.

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



ERICKSON

■ HC MM-CV Form B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw	kg
2079529	CV50BHC06M350	6	25,7	63	89	33	27	10	170.135	5mm	170.002	2,5mm	3,44
2079530	CV50BHC08M350	8	27,7	63	89	33	27	10	170.135	5mm	170.002	2,5mm	3,46
2079531	CV50BHC10M375	10	29,7	63	95	37	31	10	170.135	5mm	170.002	2,5mm	3,54
2079532	CV50BHC12M375	12	31,6	63	95	40	36	10	170.135	5mm	170.002	2,5mm	3,52
2079563	CV50BHC14M400	14	33,6	63	102	46	41	10	170.135	5mm	170.003	3mm	3,56
2079564	CV50BHC16M400	16	37,6	63	102	47	41	10	170.135	5mm	170.003	3mm	3,62
2079565	CV50BHC18M400	18	39,6	63	102	47	41	10	170.135	5mm	170.003	3mm	3,64
2079566	CV50BHC20M400	20	41,6	63	102	48	41	10	170.135	5mm	170.003	3mm	3,67
1605226	CV50BHC25M462	25	49,9	63	117	51	51	10	170.136	6mm	170.004	4mm	4,10
1605227	CV50BHC32M462	32	59,9	63	117	59	51	10	170.136	6mm	170.004	4mm	4,29

■ HC IN-CV Form B/AD

order number	catalog number	D1	D2	D21	L1	L2	L9	V	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw	lbs
2079524	CV50BHC025350	1/4	1.01	2.48	3.50	1.30	1.06	.39	170.135	5mm	170.002	2,5mm	7.59
2079525	CV50BHC038375	3/8	1.17	2.48	3.75	1.46	1.22	.39	170.135	5mm	170.002	2,5mm	7.83
2079526	CV50BHC050375	1/2	1.24	2.48	3.75	1.57	1.42	.39	170.135	5mm	170.002	2,5mm	7.74
2079527	CV50BHC062400	5/8	1.48	2.48	4.00	1.83	1.54	.39	170.135	5mm	170.003	3mm	8.00
2079528	CV50BHC075400	3/4	1.64	2.48	4.00	1.89	1.61	.39	170.135	5mm	170.003	3mm	8.11
1605143	CV50BHC100462	1	1.96	2.48	4.63	2.01	1.81	.39	170.136	6mm	170.004	4mm	9.06
1605144	CV50BHC125462	1 1/4	2.36	2.48	4.63	2.32	1.97	.39	170.136	6mm	170.004	4mm	9.50

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.
Hydraulic chuck technical section, see page M84.
Supplied with stop screw.
Actuation wrench must be ordered separately.
Reduction sleeves are available and must be ordered separately; see page J2.
For retention knobs, see page L45.

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



KM4X™

The Next Generation Spindle Interface for Heavy-Duty Machining!

KM4X is designed to take on your most aggressive machining jobs. This next generation KM™ spindle interface should be your first choice for heavy-duty machining applications. It's especially suited for large structural components, like titanium aerospace components.

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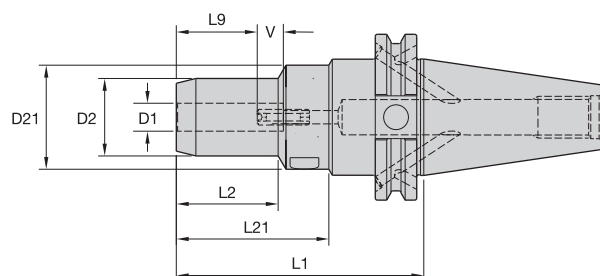
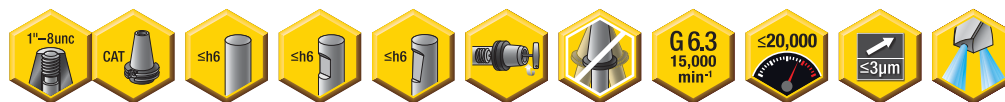
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■ HC Trend MM-CV Form B/AD



order number	catalog number	D1	D2	D21	L1	L2	L21	L9	V	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw	kg
2977690	CV50BHCT06M350	6	25,7	63	89	33	53	27	10	170.135	6mm	170.003	3mm	3,48
2452778	CV50BHCT06M600	6	25,7	63	152	100	117	27	10	170.135	5mm	170.003	3mm	3,68
2977691	CV50BHCT08M350	8	27,7	63	89	33	53	27	10	170.135	5mm	170.003	3mm	3,55
2452779	CV50BHCT08M600	8	27,7	63	152	100	117	27	10	170.135	5mm	170.003	3mm	3,73
2977692	CV50BHCT10M375	10	29,7	63	95	37	59	31	10	170.135	5mm	170.003	3mm	3,58
2452780	CV50BHCT10M600	10	29,7	63	152	100	117	31	10	170.135	5mm	170.003	3mm	3,80
2977693	CV50BHCT12M375	12	31,6	63	95	40	59	36	10	170.135	5mm	170.003	3mm	3,56
2452781	CV50BHCT12M600	12	31,6	63	152	100	117	36	10	170.135	5mm	170.005	5mm	3,85
2977694	CV50BHCT14M400	14	33,6	63	102	46	66	41	10	170.135	5mm	170.005	5mm	3,60
2452782	CV50BHCT14M600	14	33,6	63	152	100	117	36	10	170.135	5mm	170.005	5mm	3,92
2977695	CV50BHCT16M400	16	37,6	63	102	47	66	41	10	170.135	5mm	170.005	5mm	3,67
2453233	CV50BHCT16M600	16	37,6	63	152	100	117	39	10	170.135	5mm	170.005	5mm	4,08
2977696	CV50BHCT18M400	18	39,6	63	102	47	66	41	10	170.135	5mm	170.005	5mm	3,70
2453234	CV50BHCT18M600	18	39,6	63	152	100	117	39	10	170.135	5mm	170.005	5mm	4,15
2977697	CV50BHCT20M400	20	41,6	63	102	48	66	41	10	170.135	5mm	170.005	5mm	3,71
2453235	CV50BHCT20M600	20	41,6	63	152	100	117	41	10	170.135	5mm	170.005	5mm	4,23
2977698	CV50BHCT25M462	25	49,9	63	117	51	81	51	10	170.136	6mm	170.005	5mm	4,15
2977699	CV50BHCT32M462	32	59,9	63	117	59	81	51	10	170.136	6mm	170.005	5mm	4,33

(continued)

(HC Trend continued)

■ HC Trend IN-CV Form B/AD

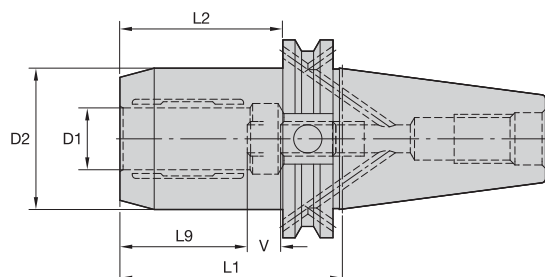


order number	catalog number	D1	D2	D21	L1	L2	L21	L9	V	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw	lbs
2977683	CV50BHCT025350	1/4	1.01	2.47	3.50	1.30	2.08	1.06	.39	170.135	5mm	170.003	3mm	7.67
2452210	CV50BHCT025600	1/4	1.01	2.47	6.00	3.94	4.59	1.06	.39	170.135	5mm	170.003	3mm	8.10
2977684	CV50BHCT038375	3/8	1.17	2.47	3.75	1.46	2.33	1.22	.39	170.135	5mm	170.003	3mm	7.89
2452774	CV50BHCT038600	3/8	1.17	2.47	6.00	3.94	4.59	1.22	.39	170.135	5mm	170.003	3mm	8.36
2977685	CV50BHCT050375	1/2	1.24	2.47	3.75	1.57	2.33	1.42	.39	170.135	5mm	170.003	3mm	7.83
2452775	CV50BHCT050600	1/2	1.24	2.47	6.00	3.94	4.59	1.42	.39	170.135	5mm	170.005	5mm	8.47
2977686	CV50BHCT062400	5/8	1.48	2.47	4.00	1.83	2.58	1.54	.39	170.135	5mm	170.005	5mm	8.09
2452776	CV50BHCT062600	5/8	1.48	2.47	6.00	3.94	4.59	1.54	.39	170.135	5mm	170.005	5mm	8.98
2977687	CV50BHCT075400	3/4	1.64	2.47	4.00	1.89	2.58	1.61	.39	170.135	5mm	170.005	5mm	8.20
2452777	CV50BHCT075600	3/4	1.64	2.47	6.00	3.94	4.59	1.61	.39	170.135	5mm	170.005	5mm	9.33
2977688	CV50BHCT100462	1	1.96	2.47	4.63	2.01	3.21	1.81	.39	170.136	6mm	170.005	5mm	9.17
2977689	CV50BHCT125462	1 1/4	2.35	2.47	4.63	2.32	3.21	1.97	.39	170.136	6mm	170.005	5mm	9.57

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.
 Hydraulic chuck technical section, see page M84.
 Supplied with stop screw.
 Actuation wrench must be ordered separately.
 Reduction sleeves are available and must be ordered separately; see page J2.
 For retention knobs, see page L45.

CAT50 Shank Tools

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



ERICKSON

■ HC Basic MM-CV Form B/AD

order number	catalog number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw	kg
2001977	CV50BHC20M400	20	62,9	102	65	41	10	170.135	5mm	170.005	5mm	4,38

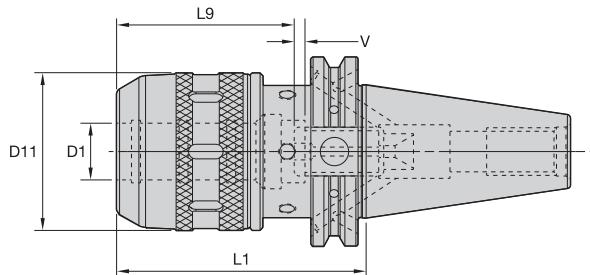
■ HC Basic IN-CV Form B/AD

order number	catalog number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	length-adjustment wrench	wrench size stop screw	lbs
2001978	CV50BHC075400	3/4	2.47	4.00	2.56	1.61	.39	170.135	5mm	170.005	5mm	9.68

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.
Hydraulic chuck technical section, see page M84.
Supplied with stop screw.
Actuation wrench must be ordered separately.
Reduction sleeves are available and must be ordered separately; see page J2.
For retention knobs, see page L45.

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

- Heavy- and fine-milling capabilities.
- Balancable — fine tune with optional M6 set screws.



ERICKSON

■ HPMC IN-CV Form B/AD

order number	catalog number	D1	D11	L1	L9	V	locknut wrench	stop screw	wrench size stop screw	lbs
3100403	CV50BHPMC075354	3/4	2.09	3.54	1.93	.79	PSW52M	MCSS16040M	2,5mm & 5mm	8.10
3100404	CV50BHPMC075650	3/4	2.09	6.50	1.93	.79	PSW52M	MCSS16040M	2,5mm & 5mm	10.50
3100405	CV50BHPMC100354	1	2.40	3.54	2.17	.79	PSW58M	MCSS16040M	2,5mm & 5mm	8.50
3100406	CV50BHPMC100531	1	2.40	5.32	2.17	.79	PSW58M	MCSS16040M	2,5mm & 5mm	10.50
3100407	CV50BHPMC100650	1	2.40	6.50	2.17	.79	PSW58M	MCSS16040M	2,5mm & 5mm	11.85
3100408	CV50BHPMC125354	1 1/4	2.76	3.54	2.28	.79	PSW68M	MCSS16040M	2,5mm & 5mm	9.00
3100409	CV50BHPMC125531	1 1/4	2.91	5.32	2.95	.79	PSW68M	MCSS16040M	2,5mm & 5mm	11.70
3100410	CV50BHPMC125650	1 1/4	2.91	6.50	2.95	.79	PSW68M	MCSS16040M	2,5mm & 5mm	13.50

NOTE: Milling chuck technical section, see page M88.

Supplied with locknut and stop screw.

Locknut wrench not included.

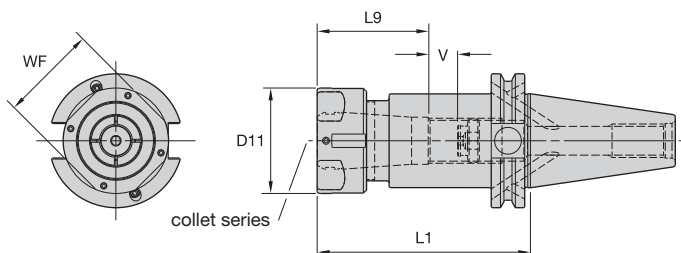
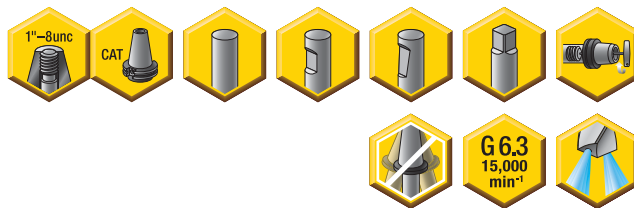
Optional M6~1,0P fine-balancing screw set is available (order number HPMCBALSCREWSET) and must be ordered separately; see page L14.

Reduction sleeves are available and must be ordered separately; see page J6.

For retention knobs, see page L45.

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

- Tremendous Grip (3:1 advantage).
- Totally flush face, locknut to collet.
- Locknut uses either open end wrench or spanner wrench.
- Locknut disk sealing cap available for through coolant to prevent collet contamination.



TG collet series	Collet Capacity			
	mm	inch	min	max
TG50	1,1	13,5	1/32	17/32
TG75	2,6	20,0	3/64	3/4
TG100	2,6	25,5	5/64	1

ERICKSON™

■ TG Flush-CV Form B/AD



order number	catalog number	collet series	D11	L1	L9	V	WF	locknut	wrench	ft. lbs.	stop screw	wrench size	stop screw	lbs
2993251	CV50BTGF075275	TG75	1.97	2.75	1.89	1	2	LNATGF075M	HSW45M	100	SS081041G	4mm & 5/32		7.21
2993247	CV50BTGF050275	TG50	1.50	2.75	1.46	2	1	LNATGF050M	HSW34M	50	SS056041G	4mm & 5/32		7.06
2993255	CV50BTGF100275	TG100	2.36	2.75	2.44	1	2	LNATGF100M	HSW58M	150	SS112041G	4mm & 5/32		7.13
2993248	CV50BTGF050400	TG50	1.50	4.00	1.46	2	1	LNATGF050M	HSW34M	50	SS056041G	4mm & 5/32		7.38
2993256	CV50BTGF100400	TG100	2.36	4.00	2.44	1	2	LNATGF100M	HSW58M	150	SS112041G	4mm & 5/32		8.28
2993252	CV50BTGF075400	TG75	1.97	4.00	1.89	2	2	LNATGF075M	HSW45M	100	SS081041G	4mm & 5/32		8.15
2993253	CV50BTGF075600	TG75	1.97	6.00	1.89	2	2	LNATGF075M	HSW45M	100	SS081041G	4mm & 5/32		9.52
2993249	CV50BTGF050600	TG50	1.50	6.00	1.46	2	1	LNATGF050M	HSW34M	50	SS056041G	4mm & 5/32		7.75
2993257	CV50BTGF100600	TG100	2.36	6.00	2.44	3	2	LNATGF100M	HSW58M	150	SS112041G	4mm & 5/32		10.39
2993250	CV50BTGF050800	TG50	1.50	8.00	1.46	2	1	LNATGF050M	HSW34M	50	SS056041G	4mm & 5/32		8.48
2993258	CV50BTGF100800	TG100	2.36	8.00	2.44	3	2	LNATGF100M	HSW58M	150	SS112041G	4mm & 5/32		12.53
2993254	CV50BTGF075800	TG75	1.97	8.00	1.89	2	2	LNATGF075M	HSW45M	100	SS081041G	4mm & 5/32		11.02

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 M98.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 Disk sealing cap and coolant disks are available and must be ordered separately; see pages L16–L17.
 Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
 Balanceable/interchangeable locknuts are available and must be ordered separately; see page L16.
 TG standard straight-bore collets, see page J10.
 TG tap collets, see page J10.
 For retention knobs, see page L45.

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

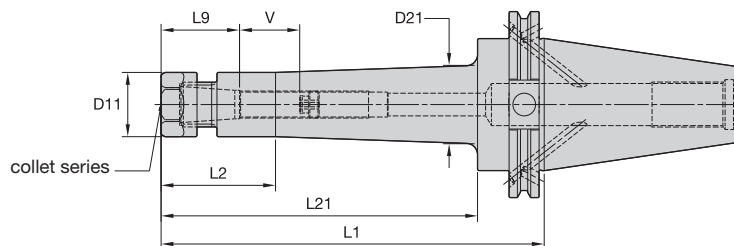
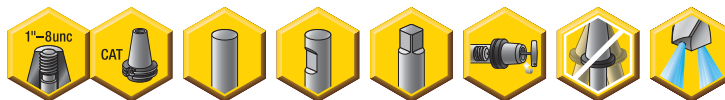


KMTM The ISO 26622 **QUICK CHANGE** Standard

KMTM Quick-Change Tooling — the ISO 26622 Standard.

- Our unique three-surface taper contact design makes this the most rigid and accurate modular quick-change tooling system available.
- It's highly versatile, too: can be fully and easily employed on your lathe, machining center, multi-spindle, or mill-turn machine — significantly reducing your tool-change and part setup downtime!

- Tremendous Grip (3:1 advantage).



TG collet series	Collet Capacity			
	mm	inch	min	max
TG50	1,3	13,5	1/32	17/32

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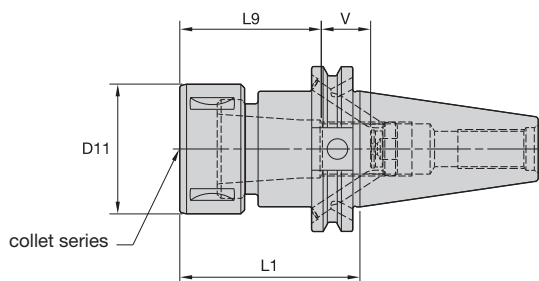
■ TG Hex-CV Form B/AD



order number	catalog number	collet series	D11	D21	L1	L2	L21	L9	V	locknut	wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
4135687	CV50BTG050300	TG50	1.34	—	3.00	1.59	—	1.50	1.81	LN050M	OEW30M	50	SS056041G	4mm & 5/32	7.06
4135688	CV50BTG050500	TG50	1.34	—	5.00	3.59	—	1.50	2.44	LN050M	OEW30M	50	SS056041G	4mm & 5/32	7.58
4135689	CV50BTG050800	TG50	1.34	1.63	8.00	2.00	6.59	1.50	2.44	LN050M	OEW30M	50	SS056041G	4mm & 5/32	8.93
4135690	CV50BTG0501000	TG50	1.34	1.70	10.00	3.00	8.59	1.50	2.44	LN050M	OEW30M	50	SS056041G	4mm & 5/32	9.85
4135691	CV50BTG0501200	TG50	1.34	1.81	12.00	3.50	10.59	1.50	2.44	LN050M	OEW30M	50	SS056041G	4mm & 5/32	10.97

(continued)

(TG Form B/AD continued)



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

■ TG Round-CV Form B/AD



order number	catalog number	collet series	D11	L1	L9	V	locknut	wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
1261786	CV50BTG075300G	TG75	1.97	3.00	1.93	1.46	LNA075M	HSW45M	100	SS081041G	4mm & 5/32	7.34
1261787	CV50BTG075600G	TG75	1.97	6.00	1.93	4.45	LNA075M	HSW45M	100	SS081041G	4mm & 5/32	9.56
1261788	CV50BTG100300G	TG100	2.36	3.00	2.56	.98	LNA100M	HSW58M	150	SS112041G	4mm & 5/32	7.32
1261789	CV50BTG100750G	TG100	2.36	7.50	2.56	5.12	LNA100M	HSW58M	150	SS112041G	4mm & 5/32	11.80

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 M98.

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 pages L16–L17.

Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.

Balanceable/interchangeable locknuts are available and must be ordered separately; see page L16.

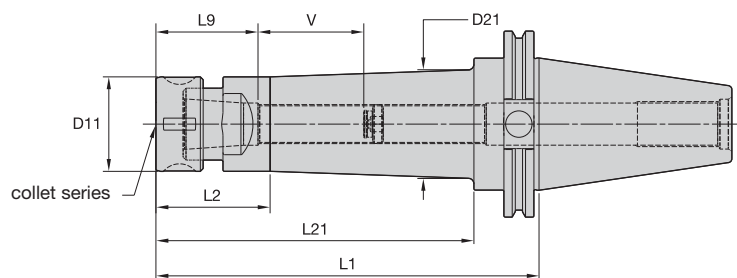
TG standard straight-bore collets, see page J10.

TG tap collets, see page J10.

For retention knobs, see page L45.

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

- 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

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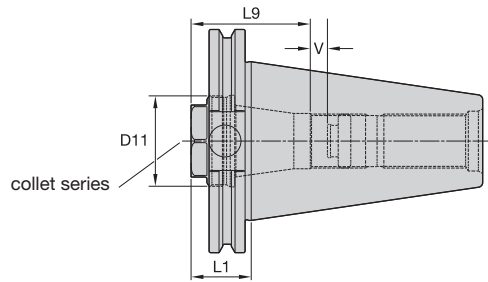
■ TG Round-CV Form AD



order number	catalog number	collet series	D11	D21	L1	L2	L21	L9	V	locknut	wrench	ft. lbs.	stop screw	wrench size	stop screw	lbs
1025603	CV50TG075279G	TG75	1.97	—	2.79	1.42	—	1.93	1.38	LNA075M	HSW45M	100.0000	SS081041G	4mm & 5/32		7.30
1025635	CV50TG075579G	TG75	1.97	2.15	5.79	1.82	4.38	1.93	4.37	LNA075M	HSW45M	100.0000	SS081041G	4mm & 5/32		9.70
1025914	CV50TG075800G	TG75	1.97	2.27	8.00	2.38	6.63	2.09	4.45	LNA075M	HSW45M	100.0000	SS081041G	4mm & 5/32		11.45
1025915	CV50TG0751000G	TG75	1.97	2.40	10.00	2.38	8.63	2.09	4.45	LNA075M	HSW45M	100.0000	SS081041G	4mm & 5/32		13.61
1025916	CV50TG0751200G	TG75	1.97	2.54	12.00	2.40	10.63	1.93	4.57	LNA075M	HSW45M	100.0000	SS081041G	4mm & 5/32		16.50
2636767	CV50TG100276G	TG100	2.36	—	2.76	1.47	—	2.76	1.85	LNA100M	HSW58M	150.0000	SS112041G	4mm & 5/32		7.07
2636768	CV50TG100326G	TG100	2.36	—	3.26	1.69	—	2.76	2.36	LNA100M	HSW58M	150.0000	SS112041G	4mm & 5/32		7.61
2636769	CV50TG100526G	TG100	2.36	—	5.26	3.89	—	2.76	4.33	LNA100M	HSW58M	150.0000	SS112041G	4mm & 5/32		9.50
2636770	CV50TG100726G	TG100	2.36	—	7.26	5.89	—	2.76	5.15	LNA100M	HSW58M	150.0000	SS112041G	4mm & 5/32		11.56

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 M98.
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 pages L16–L17.
Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
Balanceable/interchangeable locknuts are available and must be ordered separately; see page L16.
TG standard straight-bore collets, see page J10.
TG tap collets, see page J10.
For retention knobs, see page L45.

- Grip (2:1 advantage).

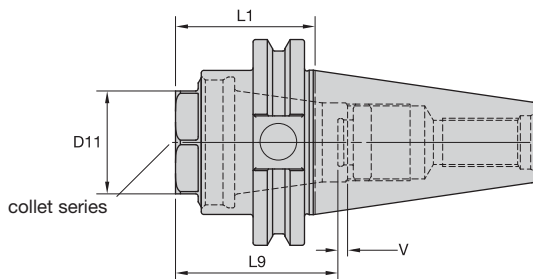


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■ ER Short-CV Z Form AD

order number	catalog number	collet series	D11	L1	L9	V	locknut	wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
2978741	CV50ZSER32106	ER32	1.41	1.06	1.97	.67	LNECSER32M	OEW32M	100	SS094041G	4mm & 5/32	5.32
2978763	CV50ZSER40106	ER40	1.81	1.06	2.24	.43	LNECSER40M	OEW168	130	SS112041G	4mm & 5/32	4.94

CV50 toolholders deviate from ANSI B5.50 standard. The 2.750" diameter in front of the V-flange has been eliminated to achieve short gage lengths.



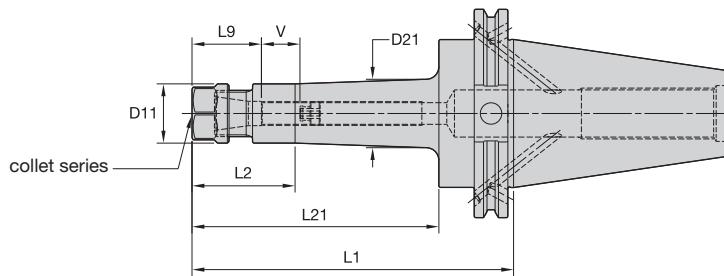
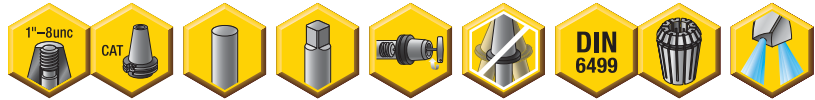
ER collet series	Collet Capacity		Collet Capacity	
	min	max	min	max
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

■ ER Short-CV Form AD

order number	catalog number	collet series	D11	L1	L9	V	locknut	wrench	ft. lbs.	stop screw	wrench size stop screw	lbs
2978742	CV50SER32169	ER32	1.41	1.69	1.97	1.06	LNECSER32M	OEW32M	100	SS094041G	4mm & 5/32	6.27
2978764	CV50SER40169	ER40	1.81	1.69	2.24	.83	LNECSER40M	OEW168	130	SS112041G	4mm & 5/32	5.86

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 M98.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
 ER standard straight-bore collets, see page J50.
 ER tap collets, see pages J58–J59.
 ER TCT tension-only tap collets, see page J60.
 For retention knobs, see page L45.

- 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

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■ ER Hex-CV Form B/AD

order number	catalog number	collet series	D11	D21	L1	L2	L21	L9	V	lbs
2249706	CV50BER16250	ER16	1.10	—	2.50	1.13	—	1.26	1.69	6.83
2249707	CV50BER16400	ER16	1.10	—	4.00	2.63	—	1.26	1.50	6.97
2249708	CV50BER16600	ER16	1.10	1.29	6.00	1.92	4.59	1.26	1.50	7.55
2249709	CV50BER20250	ER20	1.34	—	2.50	1.13	—	1.42	1.73	6.84
1261782	CV50BER20400	ER20	1.34	—	4.00	2.63	—	1.42	1.73	7.19
2249710	CV50BER20600	ER20	1.34	—	6.00	4.63	—	1.42	1.73	7.77

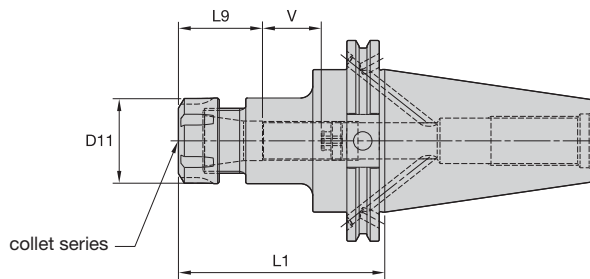
■ Spare Parts



catalog number	locknut	wrench	counterbore collet torque (ft. lbs.)	straight collet torque (ft. lbs.)	stop screw	wrench size stop screw
CV50BER16250	LNHSER16M	OE25M	30	42	SS044038G	4mm & 5/32
CV50BER16400	LNHSER16M	OE25M	30	42	SS044038G	4mm & 5/32
CV50BER16600	LNHSER16M	OE25M	30	42	SS044038G	4mm & 5/32
CV50BER20250	LNHSER20M	OE30M	24	59	SS056041G	4mm & 5/32
CV50BER20400	LNHSER20M	OE30M	24	59	SS056041G	4mm & 5/32
CV50BER20600	LNHSER20M	OE30M	24	59	SS056041G	4mm & 5/32

(continued)

(ER Form B/AD continued)



■ ER Round-CV Form B/AD

order number	catalog number	collet series	D11	L1	L9	V	lbs
2249711	CV50BER25250	ER25	1.65	2.50	1.57	1	6.85
2249712	CV50BER25400	ER25	1.65	4.00	1.57	2	7.61
2249713	CV50BER25600	ER25	1.65	6.00	1.57	2	8.44
2249714	CV50BER32275	ER32	1.97	2.75	1.81	1	6.91
1261783	CV50BER32400	ER32	1.97	4.00	1.81	1	7.78
2249715	CV50BER32600	ER32	1.97	6.00	1.81	1	9.19
2249716	CV50BER40300	ER40	2.48	3.00	2.05	1	7.21
2249717	CV50BER40600	ER40	2.48	6.00	2.05	4	10.58

■ Spare Parts

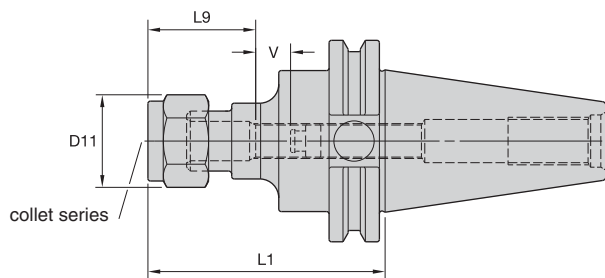


catalog number	locknut	wrench	counterbore collet torque (ft. lbs.)	stop screw	wrench size stop screw
CV50BER25250	LNSER25M	ER25WM	77	SS075041G	4mm & 5/32
CV50BER25400	LNSER25M	ER25WM	77	SS075041G	4mm & 5/32
CV50BER25600	LNSER25M	ER25WM	77	SS075041G	4mm & 5/32
CV50BER32275	LNSER32M	ER32WM	100	SS094041G	4mm & 5/32
CV50BER32400	LNSER32M	ER32WM	100	SS094041G	4mm & 5/32
CV50BER32600	LNSER32M	ER32WM	100	SS094041G	4mm & 5/32
CV50BER40300	LNSER40M	ER40WM	130	SS112041G	4mm & 5/32
CV50BER40600	LNSER40M	ER40WM	130	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 M98.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 ER standard straight-bore collets, see page J50.
 ER tap collets, see pages J58-J59.
 ER TCT tension-only tap collets, see page J60.
 For retention knobs, see page L45.

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

- Grip 1:1.



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■ DA Hex-CV Form AD

DA collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
DA180	2,2	20	1/64	3/4

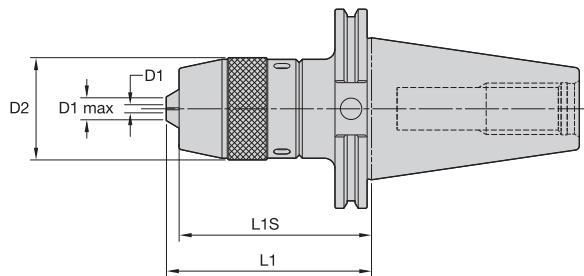
order number	catalog number	collet series	D11	L1	L9	V	lbs
1015307	CV50DA188600	DA180	1.73	6	1.93	4.65	8.21
1015306	CV50DA188300	DA180	1.73	3	1.93	2.36	7.03

■ Spare Parts



catalog number	locknut	locknut wrench	ft. lbs.	stop screw	wrench size stop screw
CV50DA188300	NPA188	OEWE150	75	SS081041G	4mm & 5/32
CV50DA188600	NPA188	OEWE150	75	SS081041G	4mm & 5/32

NOTE: Tighten locknut to the recommended tightening torque.
Collet chuck technical section, see page M98.
Supplied with locknut and stop screw.
Locknut wrench must be ordered separately.
Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.
DA standard straight-bore collets, see page J62.
DA non-pullout collets, see pages J65–J68.
For retention knobs, see page L45.

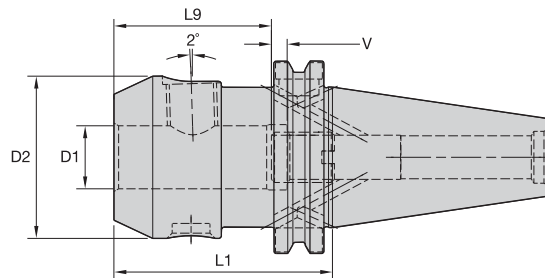


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■ DC-CV Form A

order number	catalog number	D1		D1 max		D2	L1	L1S	locknut wrench	lbs
		mm	in	mm	in					
2262968	CV50DC13M421	1,0	.039	13,0	.512	1.97	4.21	3.72	HSW45M	7.85

NOTE: Locknut wrench is supplied.
For retention knobs, see page L45.



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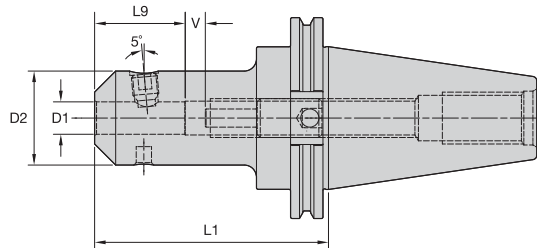
■ WN MM-CV Form B/AD

order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	Nm	stop screw	wrench size stop screw	kg
1549343	CV50BWN06M244	6	25	62	30	10	SS03M012	3mm	7	571.060	2,5mm	3,14
1549344	CV50BWN08M244	8	28	62	30	10	SS03M014	4mm	15	571.067	3mm	3,10
1549378	CV50BWN10M244	10	35	62	35	10	SS03M018	5mm	25	571.068	4mm	3,21
1549345	CV50BWN12M264	12	42	67	40	10	SS03M023	6mm	35	571.074	5mm	3,32
1549346	CV50BWN14M264	14	44	67	40	10	SS03M023	6mm	35	571.074	5mm	3,30
1549352	CV50BWN16M275	16	48	70	43	10	SS03M025	6mm	50	571.075	6mm	3,41
1549353	CV50BWN18M275	18	50	70	43	10	SS03M025	6mm	50	571.075	6mm	3,43
1549362	CV50BWN20M275	20	52	70	45	10	SS03M026	8mm	95	571.076	6mm	3,43
1804514	CV50BWN20M600	20	52	152	45	10	SS03M026	8mm	95	571.076	6mm	4,67
1549354	CV50BWN25M375	25	65	95	50	10	SS03M027	10mm	135	571.077	6mm	4,23
1804515	CV50BWN25M600	25	65	152	50	10	SS03M027	10mm	135	571.077	6mm	5,52
1549355	CV50BWN32M388	32	72	99	54	10	SS03M029	10mm	160	571.076	6mm	4,51
1804516	CV50BWN32M600	32	72	152	54	10	SS03M029	10mm	160	571.076	6mm	6,06

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw and stop screw.
Clamp screw or stop screw wrenches not included.
For retention knobs, see page L45.

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

- 5° NAS 987 Whistle Notch cutting toolholders.
- No through-the-toolholder coolant capability (Form A only), unless stop screw is removed.
- Axial adjustment with constant 3/8" drive throughout complete range of adapters.



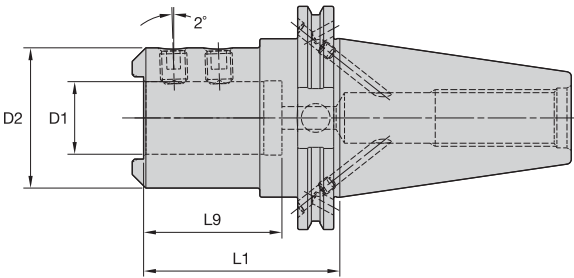
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■ WN NAS-CV Form AD • Inch



order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size clamp screw	ft. lbs.	wrench size stop screw	lbs
3594645	CV50WNA038282	3/8	1.38	2.82	1.19	.38	—	3/16	15	3/8	7.33
3594646	CV50WNA038469	3/8	1.38	4.69	1.19	.38	—	3/16	15	3/8	7.94
3594647	CV50WNA038669	3/8	1.38	6.69	1.19	.38	—	3/16	15	3/8	8.59
3594648	CV50WNA050273	1/2	1.63	2.73	1.40	.38	—	3/16	15	3/8	7.45
3594649	CV50WNA050460	1/2	1.63	4.60	1.40	.38	—	3/16	15	3/8	8.37
3594650	CV50WNA050660	1/2	1.63	6.60	1.40	.38	—	3/16	15	3/8	9.36
3594651	CV50WNA062266	5/8	1.81	2.66	1.52	.38	—	1/4	60	3/8	7.55
3594652	CV50WNA062453	5/8	1.81	4.53	1.52	.38	—	1/4	60	3/8	8.75
3594653	CV50WNA062653	5/8	1.81	6.53	1.52	.38	—	1/4	60	3/8	10.02
3594654	CV50WNA075263	3/4	2.00	2.63	1.54	.38	—	1/4	60	3/8	7.60
3594655	CV50WNA075450	3/4	2.00	4.50	1.65	.38	—	1/4	60	3/8	9.14
3594656	CV50WNA075650	3/4	2.00	6.50	1.65	.38	—	1/4	60	3/8	10.73
3594657	CV50WNA088263	7/8	2.25	2.63	1.53	.38	—	1/4	60	3/8	7.78
3594658	CV50WNA088450	7/8	2.25	4.50	1.64	.38	—	1/4	60	3/8	9.74
3594659	CV50WNA088650	7/8	2.25	6.50	1.64	.38	—	1/4	60	3/8	11.88
3594660	CV50WNA100300	1	2.63	3.00	1.90	.38	S-1820	3/8	110	3/8	8.57
3594661	CV50WNA100450	1	2.63	4.50	1.90	.38	S-1820	3/8	110	3/8	10.75
3594662	CV50WNA100650	1	2.63	6.50	1.90	.38	S-1820	3/8	110	3/8	13.68
3594663	CV50WNA125300	1 1/4	2.88	3.00	1.90	.38	S-1820	3/8	110	3/8	8.80
3594664	CV50WNA125450	1 1/4	2.88	4.50	1.90	.38	S-1820	3/8	110	3/8	11.44
3594665	CV50WNA125650	1 1/4	2.88	6.50	1.90	.38	S-1820	3/8	110	3/8	14.98
3594666	CV50WNA150400	1 1/2	3.13	4.00	1.90	.38	S-1820	3/8	110	3/8	10.95
3594667	CV50WNA200535	2	4.00	5.35	3.01	.38	S-1820	3/8	110	3/8	16.44
3594668	CV50WNA200735	2	4.00	7.35	3.01	.38	S-1820	3/8	110	3/8	23.42
3594669	CV50WNA250535	2 1/2	5.00	5.35	3.01	.38	—	3/8	110	3/8	22.44
3594670	CV50WNA250735	2 1/2	5.00	7.35	3.01	.38	—	3/8	110	3/8	26.77
3594671	CV50ZNA200375	2	3.75	3.75	3.01	.38	S-1820	3/8	110	3/8	11.48

NOTE: Do not overtighten clamp screw; use torque recommendations above.
 Supplied with clamp screw and stop screw (3/4"-10 RH x 2.25lg).
 Clamp screw or stop screw wrenches not included.
 For retention knobs, see page L45.



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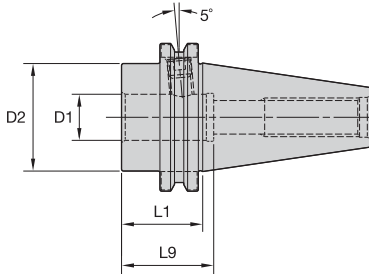
WD MM-CV Form B/AD



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	Nm	kg
1749279	CV50BWD32M343	32	63	87	61	SS03M023	6mm	35	3,84
1749283	CV50BWD40M343	40	70	87	71	SS03M023	6mm	35	3,88
1749284	CV50BWD50M343	50	80	87	69	SS03M023	6mm	35	4,04

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Lock screw wrenches not included.
For retention knobs, see page L45.

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



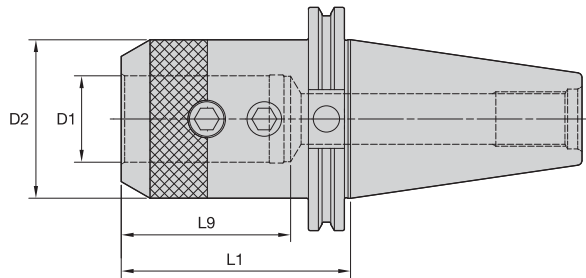
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■ SWN IN-CV Form AD (Tap Chuck Adapter)



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
1064539	CV50TA1137	1.00	2.75	1.38	3.63	ELS062050PKG	5/16	70	6.53
1017996	CV50TA15200	1.50	2.75	2.00	3.80	ELS050050PKG	1/4	60	6.38

NOTE: Do not overtighten lock screw; use torque recommendations above.
 Supplied with lock screw.
 Lock screw wrench not included.
 For retention knobs, see page L45.



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■ EM IN-CV Form AD



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	lbs	ft. lbs.
1013379	CV50EM018250	3/16	.69	2.50	4.69	S1045PKG	3/32	6.55	3
1013408	CV50EM018450	3/16	.69	4.50	6.69	S1045PKG	3/32	6.84	3
1013409	CV50EM018650	3/16	.69	6.50	8.69	S1045PKG	3/32	7.05	3
1013380	CV50EM025250	1/4	.78	2.50	4.69	ELS025025PKG	1/8	6.55	5
1013410	CV50EM025450	1/4	.78	4.50	6.69	ELS025025PKG	1/8	7.17	5
1013411	CV50EM025650	1/4	.78	6.50	7.68	ELS025025PKG	1/8	7.19	5
1013381	CV50EM031250	5/16	1.00	2.50	4.69	ELS031031PKG	5/32	6.61	11
1013412	CV50EM031450	5/16	1.00	4.50	6.69	ELS031031PKG	5/32	7.15	11
1013413	CV50EM031650	5/16	1.00	6.50	8.69	ELS031031PKG	5/32	7.60	11
1026020	CV50EM038250	3/8	1.00	2.50	4.69	ELS038031PKG	3/16	6.63	15
1026286	CV50EM038450	3/8	1.00	4.50	6.69	ELS038031PKG	3/16	7.07	15
1026093	CV50EM038650	3/8	1.00	6.50	8.69	ELS038031PKG	3/16	7.45	15
1013382	CV50EM038850	3/8	1.00	8.50	10.70	ELS038031PKG	3/16	8.27	15
1013383	CV50EM044250	7/16	1.25	2.50	4.69	ELS044038PKG	7/32	6.78	20
1026021	CV50EM050262	1/2	1.38	2.62	4.81	ELS044038PKG	7/32	6.82	20
1026114	CV50EM050462	1/2	1.38	4.62	6.81	ELS044038PKG	7/32	7.52	20
1026115	CV50EM050662	1/2	1.38	6.62	8.81	ELS044038PKG	7/32	8.21	20
1013404	CV50EM050850	1/2	1.25	8.50	10.69	ELS044038PKG	7/32	9.03	20
1026022	CV50EM062375	5/8	1.63	3.75	5.94	ELS056050PKG	1/4	7.53	40
1026116	CV50EM062575	5/8	1.63	5.75	7.94	ELS056050PKG	1/4	8.63	40
1026117	CV50EM062775	5/8	1.63	7.75	9.94	ELS056050PKG	1/4	9.48	40
1026250	CV50EM075375	3/4	1.75	3.75	5.94	ELS062050PKG	5/16	7.65	70
1026118	CV50EM075575	3/4	1.75	5.75	7.94	ELS062050PKG	5/16	8.67	70
1026119	CV50EM075775	3/4	1.75	7.75	7.91	ELS062050PKG	5/16	9.81	70
1013405	CV50EM0751000	3/4	1.75	10.00	12.19	ELS062050PKG	5/16	12.25	70
1026023	CV50EM088375	7/8	2.00	3.75	4.19	ELS062050PKG	5/16	7.65	70
1026120	CV50EM088575	7/8	2.00	5.75	4.19	ELS062050PKG	5/16	9.44	70
1026121	CV50EM088775	7/8	2.00	7.75	4.19	ELS062050PKG	5/16	10.85	70
1026044	CV50EM100400	1	2.00	4.00	4.49	ELS075056PKG	3/8	7.94	110
1026287	CV50EM100600	1	2.00	6.00	4.49	ELS075056PKG	3/8	9.39	110

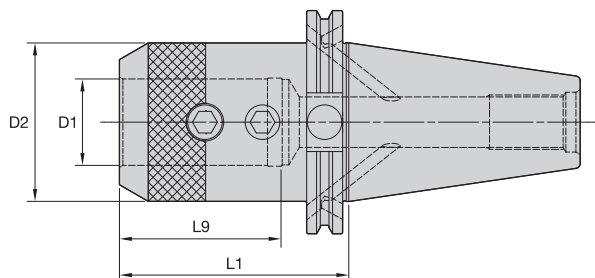
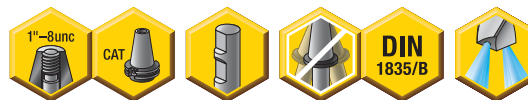
(continued)

(EM IN-CV Form AD continued)



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	lbs	ft. lbs.
1026122	CV50EM100800	1	2.00	8.00	4.49	ELS075056PKG	3/8	10.82	110
1013406	CV50EM1001000	1	2.00	10.00	4.49	ELS075056PKG	3/8	13.37	110
1026045	CV50EM125400	1 1/4	2.50	4.00	2.39	ELS075062PKG	3/8	8.98	110
1026123	CV50EM125600	1 1/4	2.50	6.00	2.39	ELS075062PKG	3/8	11.42	110
1026288	CV50EM125800	1 1/4	2.50	8.00	2.39	ELS075062PKG	3/8	13.85	110
1013407	CV50EM1251000	1 1/4	2.50	10.00	2.39	ELS075062PKG	3/8	16.28	110
1026284	CV50EM150400	1 1/2	2.75	4.00	2.82	ELS075069PKG	3/8	9.19	110
1026289	CV50EM150600	1 1/2	2.75	6.00	2.82	ELS075069PKG	3/8	12.21	110
1026144	CV50EM150800	1 1/2	2.75	8.00	2.82	ELS075069PKG	3/8	15.25	110
1026046	CV50EM200562	2	3.75	5.62	3.38	ELS100088PKG	1/2	15.96	150
1026145	CV50EM200762	2	3.75	7.62	3.38	ELS100088PKG	1/2	19.01	150
1026290	CV50EM200962	2	3.75	9.62	3.38	ELS100088PKG	1/2	22.08	150

NOTE: Do not overtighten lock screw; use torque recommendations above.
 Supplied with lock screw.
 Lock screw wrench not included.
 For retention knobs, see page L45.



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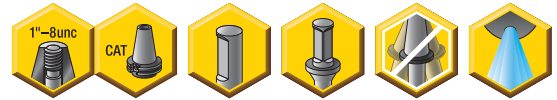
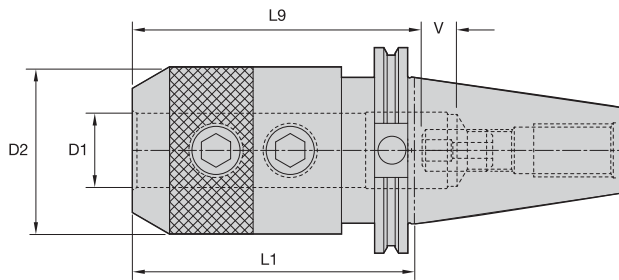
■ EM IN-CV Form B/AD



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	lbs	ft. lbs.
1261776	CV50BEM050462	1/2	1.38	4.62	6.81	ELS044038PKG	7/32	7.53	20
1261777	CV50BEM062375	5/8	1.62	3.75	5.94	ELS056050PKG	1/4	7.48	40
1261778	CV50BEM075375	3/4	1.75	3.75	5.94	ELS062050PKG	5/16	7.62	70
1261779	CV50BEM100400	1	2.00	4.00	4.49	ELS075056PKG	3/8	7.90	110
1261780	CV50BEM125400	1 1/4	2.50	4.00	2.39	ELS075062PKG	3/8	8.94	110
1261781	CV50BEM150400	1 1/2	2.75	4.00	2.82	ELS075069PKG	3/8	9.17	110

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.
For retention knobs, see page L45.

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



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■ SS-CV Form AD • Inch

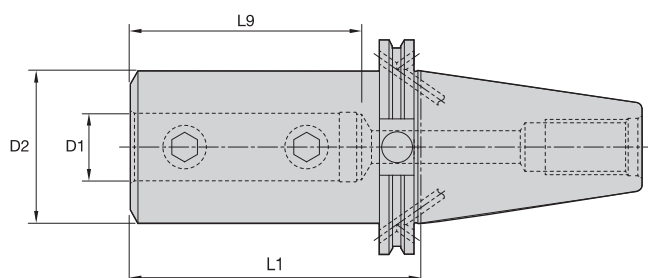
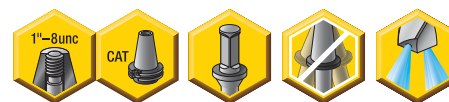
order number	catalog number	D1	D2	L1	L9	V	lbs
1018311	CV50SS100400	1	2.25	4.00	3.75	.63	8.74
1018312	CV50SS100600	1	2.25	6.00	3.75	.63	10.66
1018313	CV50SS100800	1	2.25	8.00	3.75	.63	12.57
1018357	CV50SS150400	1 1/2	2.75	4.00	3.25	1.25	8.83
1018358	CV50SS150600	1 1/2	2.75	6.00	3.25	1.25	11.85
1018359	CV50SS150800	1 1/2	2.75	8.00	3.25	1.25	14.87
1018354	CV50SS125400	1 1/4	2.50	4.00	3.25	1.25	8.80
1018355	CV50SS125600	1 1/4	2.50	6.00	3.25	1.25	11.24
1018356	CV50SS125800	1 1/4	2.50	8.00	3.25	1.25	13.67
1018360	CV50SS175400	1 3/4	3.13	4.00	2.75	1.25	9.51
1018361	CV50SS200562	2	3.69	5.62	3.25	1.25	14.99
1018362	CV50SS200762	2	3.69	7.62	3.25	1.25	20.70
1018425	CV50SS250800	2 1/2	4.00	8.00	4.25	1.25	21.50
1018424	CV50SS225650	2 1/4	4.00	6.50	3.75	1.25	18.64

■ Spare Parts



catalog number	lock screw	wrench size clamp screw	ft. lbs.	stop screw	wrench size stop screw
CV50SS100400	ELS075062PKG	3/8	110	CSS081125	1/8
CV50SS100600	ELS075062PKG	3/8	110	CSS081125	1/8
CV50SS125400	ELS075062PKG	3/8	110	CSS112175PKG	3/16
CV50SS125600	ELS075062PKG	3/8	110	CSS112175PKG	3/16
CV50SS150400	ELS075062PKG	3/8	110	CSS112175PKG	3/16
CV50SS150600	ELS075062PKG	3/8	110	CSS112175PKG	3/16
CV50SS175400	ELS075069PKG	3/8	110	CSS112175PKG	3/16
CV50SS200562	ELS100088PKG	1/2	150	CSS112175PKG	3/16
CV50SS250800	ELS100062	1/2	150	CSS112175PKG	3/16

NOTE: Do not overtighten clamp screw; use torque recommendations above.
 Supplied with clamp screws and stop screw.
 Clamp screw or stop screw wrench not included.
 For retention knobs, see page L45.



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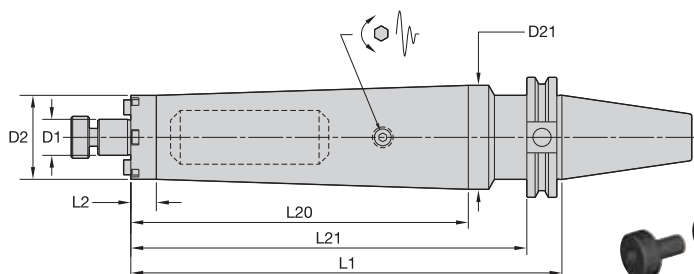
■ SSF IN-CV Form B/AD



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
1749472	CV50BSSF075275	3/4	1.75	2.75	2.25	ELS062050PKG	5/16	70	7.21
1749473	CV50BSSF100400	1	2.00	4.00	3.25	DWG ELS075050	3/8	110	8.05
1749474	CV50BSSF125400	1 1/4	2.50	4.00	3.50	ELS075056PKG	3/8	110	8.86
1749475	CV50BSSF150450	1 1/2	2.75	4.50	4.00	ELS075056PKG	3/8	110	9.67
1749209	CV50BSSF200550	2	3.75	5.50	4.25	ELS100088PKG	1/2	150	15.23

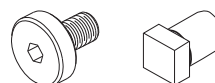
NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.
For retention knobs, see page L45.

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



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■ SMC TD Lock IN-CV Form A



order number	catalog number	D1	D2	D21	L1	L2	L20	L21	lock screw	drive key	wrench size lock screw	lbs
4136189	CV50BTDSMC0751050	3/4	1.75	2.75	10.50	.53	9.09	9.75	KLS07	KDK05	1/4	16.53
4136190	CV50BTDSMC1001250	1	2.75	—	12.50	11.75	—	—	KLS10	KDK06	5/16	24.62
4136191	CV50BTDSMC1251300	1 1/4	2.88	—	13.00	12.25	—	—	KLS12	KDK08	5/16	31.97

NOTE: Do not overtighten lock screw.

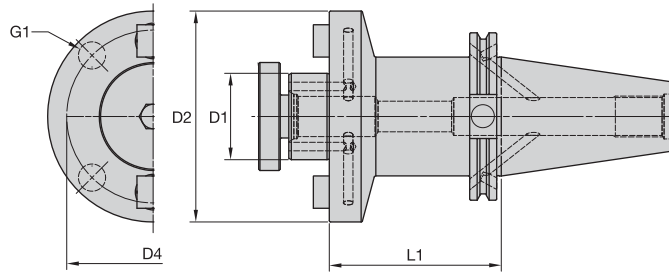
Supplied with lock screw and drive keys.

Interchangeable coolant-style lock screws are available and must be ordered separately; see page L38.

Lock screw wrench not included.

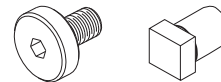
For retention knobs, see page L45.

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



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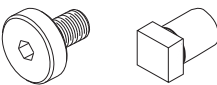
■ SMC Lock IN-CV Form B/AD



order number	catalog number	D1	D2	D4	G1	L1	lock screw	drive key	wrench size retention screw	lbs
3640130	CV50BSM2C050150	1/2	1.20	—	—	1.50	KLS05	KDK04	3/16	6.80
3640132	CV50BSM2C050350	1/2	1.20	—	—	3.50	KLS05	KDK04	3/16	7.10
3640194	CV50BSM2C050550	1/2	1.20	—	—	5.50	KLS05	KDK04	3/16	7.64
3640129	CV50BSMC050150	1/2	1.44	—	—	1.50	KLS05	KDK04	3/16	6.81
3640131	CV50BSMC050350	1/2	1.44	—	—	3.50	KLS05	KDK04	3/16	7.39
3640193	CV50BSMC050550	1/2	1.44	—	—	5.50	KLS05	KDK04	3/16	8.21
3640196	CV50BSM2C075150	3/4	1.46	—	—	1.50	KLS07	—	1/4	6.80
3640198	CV50BSM2C075350	3/4	1.46	—	—	3.50	KLS07	—	1/4	7.41
3640200	CV50BSM2C075550	3/4	1.46	—	—	5.50	KLS07	—	1/4	8.17
3640195	CV50BSMC075150	3/4	1.75	—	—	1.50	KLS07	KDK05	1/4	6.94
3640197	CV50BSMC075350	3/4	1.75	—	—	3.50	KLS07	KDK05	1/4	7.85
3640199	CV50BSMC075550	3/4	1.75	—	—	5.50	KLS07	KDK05	1/4	9.04
3640201	CV50BSMC075700	3/4	1.75	—	—	7.00	KLS07	KDK05	1/4	10.51
3640202	CV50BSMC075900	3/4	1.75	—	—	9.00	KLS07	KDK05	1/4	12.39
3640204	CV50BSM2C100200	1	2.19	—	—	2.00	KLS10	KDK06	5/16	7.26
3640206	CV50BSM2C100400	1	2.19	—	—	4.00	KLS10	KDK06	5/16	9.12
3640208	CV50BSM2C100600	1	2.19	—	—	6.00	KLS10	KDK06	5/16	10.98
3640203	CV50BSMC100200	1	2.75	—	—	2.00	KLS10	KDK06	5/16	7.63
3640205	CV50BSMC100400	1	2.75	—	—	4.00	KLS10	KDK06	5/16	10.72
3640207	CV50BSMC100600	1	2.75	—	—	6.00	KLS10	KDK06	5/16	13.81
3640209	CV50BSMC100800	1	2.75	—	—	8.00	KLS10	KDK06	5/16	16.89
3640210	CV50BSMC1001000	1	2.75	—	—	10.00	KLS10	KDK06	5/16	19.98
3640211	CV50BSMC125150	1 1/4	2.75	—	—	1.50	KLS12	KDK08	5/16	7.10
3640212	CV50BSMC125350	1 1/4	2.88	—	—	3.50	KLS12	KDK08	5/16	10.24
3640213	CV50BSMC125550	1 1/4	2.88	—	—	5.50	KLS12	KDK08	5/16	13.27
3640214	CV50BSMC125700	1 1/4	2.88	—	—	7.00	KLS12	KDK08	5/16	15.22
3640215	CV50BSMC125900	1 1/4	2.88	—	—	9.00	KLS12	KDK08	5/16	18.57
3640216	CV50BSMC150240	1 1/2	3.81	—	—	2.40	KLS15	KDK10	3/8	9.88
3640217	CV50BSMC150400	1 1/2	3.81	—	—	4.00	KLS15	KDK10	3/8	12.53
3640218	CV50BSMC150600	1 1/2	3.81	—	—	6.00	KLS15	KDK10	3/8	15.72
3640219	CV50BSMC150800	1 1/2	3.81	—	—	8.00	KLS15	KDK10	3/8	18.90
3640220	CV50BSMC200240	2	4.88	4.00	5/8-11 UNC	2.40	KLS20	KDK12	9/16	11.95

(continued)

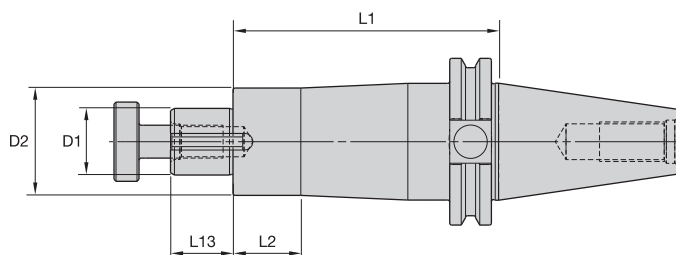
(SMC Lock IN-CV Form B/AD continued)



order number	catalog number	D1	D2	D4	G1	L1	lock screw	drive key	wrench size retention screw	lbs
3640221	CV50BSMC200400	2	4.88	4.00	5/8-11 UNC	4.00	KLS20	KDK12	9/16	14.94
3640222	CV50BSMC200600	2	4.88	4.00	5/8-11 UNC	6.00	KLS20	KDK12	9/16	18.18
3640223	CV50BSMC200800	2	4.88	4.00	5/8-11 UNC	8.00	KLS20	KDK12	9/16	21.43
3640224	CV50BSMC250240	2 1/2	4.88	4.00	5/8-11 UNC	2.40	—	KDK16	—	12.87
3640225	CV50BSMC250400	2 1/2	4.88	4.00	5/8-11 UNC	4.00	—	KDK16	—	15.80

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 L38.
 Lock screw wrench not included.
 For retention knob, see page L45.

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



CAT50 Shank Tools

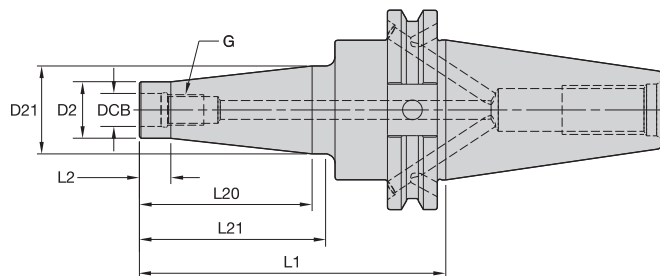
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■ SA IN-CV Form A



order number	catalog number	D1	D2	L1	L2	L13	lock screw	wrench size lock screw	drive key	lbs
1261878	CV50SA062400	5/8	1.25	4.00	2.63	.78	KLS07	1/4	DWG SDK062088	7.96
1026217	CV50SA100400	1	1.56	4.00	2.63	.94	KLS10	5/16	DWG SDK100106	8.59
2461123	CV50SA100600	1	1.56	6.00	.87	.94	KLS10	5/16	DWG SDK100106	11.60
2461124	CV50SA125400	1 1/4	1.88	4.00	2.63	1.09	KLS12	5/16	DWG SDK125119	9.56
1026218	CV50SA125600	1 1/4	1.88	6.00	1.06	1.09	KLS12	5/16	DWG SDK125119	12.60
2461125	CV50SA150400	1 1/2	2.00	4.00	2.63	1.70	KLS15	3/8	DWG SDK150175	10.35
1026223	CV50SA150600	1 1/2	2.00	6.00	1.06	1.70	KLS15	3/8	DWG SDK150175	13.44
1026244	CV50SA200600	2	2.75	6.00	5.25	1.70	KLS20	9/16	SDK200169	16.67

NOTE: Do not overtighten lock screw.
 Supplied with lock screw and drive key.
 Lock screw wrench not included.
 For retention knobs, see page L45.



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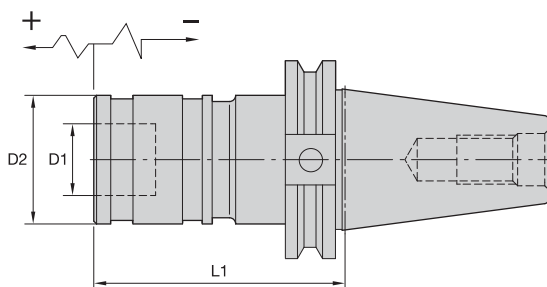
■ ST-CV Form B/AD

order number	catalog number	DCB	G	D2	D21	L1	L2	L20	L21	lbs
4073648	CV50BST12M343	.5	M12	.83	.94	3.43	.39	1.77	1.83	7.06
4073649	CV50BST12M539	.5	M12	.83	1.22	5.39	.39	3.54	3.75	7.62
4073650	CV50BST12M736	.5	M12	.83	1.54	7.36	.39	5.71	5.72	8.51
4073651	CV50BST16M343	.7	M16	1.14	1.34	3.43	.39	1.77	1.79	7.35
4073652	CV50BST16M539	.7	M16	1.14	1.54	5.39	.39	3.54	3.75	8.23
4073653	CV50BST16M739	.7	M16	1.14	1.54	7.36	.39	5.51	5.72	8.98
4073654	CV50BST16M933	.7	M16	1.14	1.93	9.33	.39	7.48	7.69	10.81

NOTE: For retention knobs, see page L45.

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

- Rapid Change style.



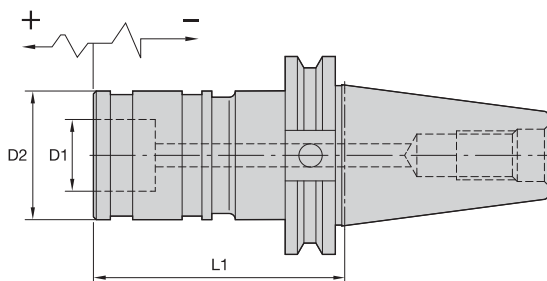
ERICKSON

■ RC-CV Form A

order number	catalog number	adapter size	tap size		D1	D2	L1	lbs
			mm	in				
1615981	CV50TCRC1297	1	M1 - M14	#0 - 9/16	.75	1.42	2.96	7.22
1615982	CV50TCRC2393	2	M5 - M24	5/16 - 7/8	1.22	2.09	3.86	8.00
1615983	CV50TCRC3516	3	M14 - M27	13/16 - 1 3/8	1.89	3.07	5.16	9.60

NOTE: Quick-change tap adapters are available and must be ordered separately; see page J76.
For retention knobs, see page L45.

- Rapid Change style.
- High-pressure coolant capability through the chuck.



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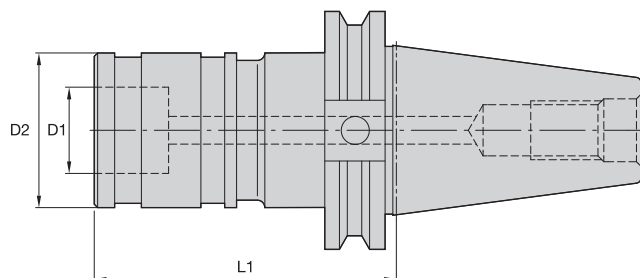
■ RC Coolant-CV Form AD

order number	catalog number	adapter size	tap size		D1	D2	L1	lbs
			mm	in				
1615989	CV50CHTCRC1382	1	M1 - M14	#0 - 9/16	.75	1.42	3.82	7.70
1615990	CV50CHTCRC2524	2	M5 - M24	5/16 - 7/8	1.22	2.09	5.23	10.30
1616001	CV50CHTCRC3717	3	M14 - M27	13/16 - 1 3/8	1.89	3.07	7.17	16.30

NOTE: Quick-change tap adapters are available and must be ordered separately; see page J76.
For retention knobs, see page L45.

CAT50 Shank Tools

Tap Chucks RC Solid • Morse Taper Adapters

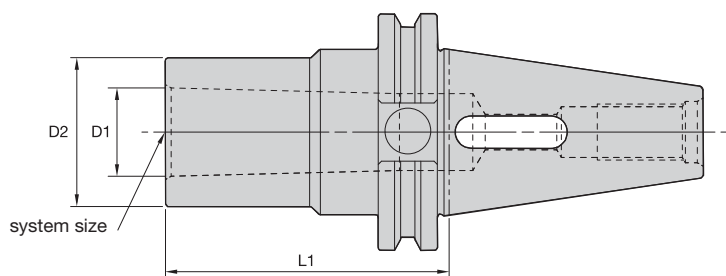


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STRC-CV Form AD

order number	catalog number	adapter size	tap size		D1	D2	L1	lbs
			mm	in				
1615973	CV50CSTRC1290	1	M1 - M14	#0 - 9/16	.75	1.26	3	7.20
1615974	CV50CSTRC2350	2	M5 - M24	5/16 - 7/8	1.22	1.97	4	8.00
1615976	CV50CSTRC3481	3	M14 - M27	13/16 - 1 3/8	1.89	2.81	5	10.60

NOTE: Quick-change tap adapters are available and must be ordered separately; see page J76.
For retention knobs, see page L45.

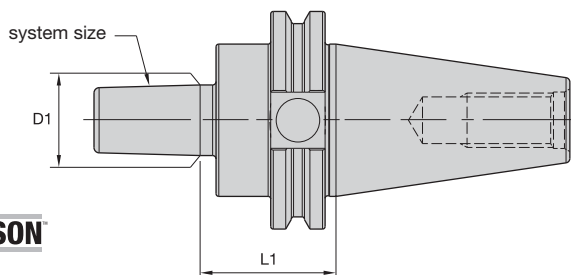


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MT-CV Form A

order number	catalog number	system size	D1	D2	L1	lbs
1026049	CV50MT1150	1	.47	2.75	1.50	6.77
1026050	CV50MT2200	2	.70	2.75	2.00	7.43
1026051	CV50MT3250	3	.94	1.57	2.50	6.73
1026052	CV50MT4338	4	1.23	1.89	3.38	6.90
1026091	CV50MT5375	5	1.75	2.75	3.75	7.55

NOTE: For retention knobs, see page L45.



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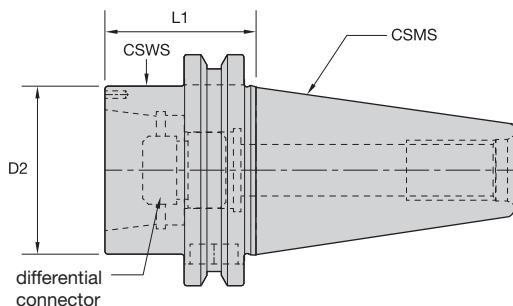
■ JT-CV Form A

order number	catalog number	system size	D1	L1	lbs
1026379	CV50JT3268	3	.81	1.46	6.97

NOTE: For retention knobs, see page L45.



• Differential connector included.



CAT50 Shank Tools

■ CV to KR Adapters B/AD • Metric

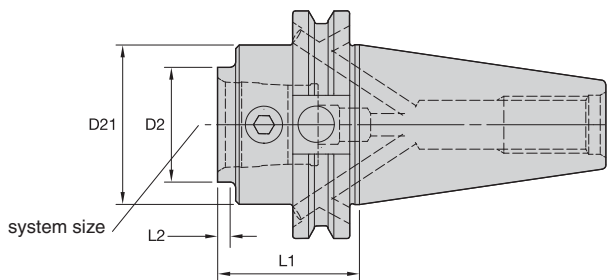
order number	catalog number	CSMS system size	CSWS system size	D2	L1	differential connector	kg	reference head
3554368	CV50BKR32157	CV50	KR32	50	40	KRDCKR32M	3,25	SVS00B,0B,1B,2B,3B,SVUBB1,BB2
3554369	CV50BKR50157	CV50	KR50	65	40	KRDCKR50M	3,05	SVS4B,5B,SVU65,SVUBB2
3554370	CV50BKR63236	CV50	KR63	85	60	KRDCKR63M	3,50	SVS6B,7B,8B
3554371	CV50BKR80275	CV50	KR80	95	70	KRDCKR80M	4,28	SVU92,120

■ CV to KR Adapters B/AD • Inch

order number	catalog number	CSMS system size	CSWS system size	D2	L1	differential connector	lbs	reference head
3554368	CV50BKR32157	CV50	KR32	1.97	1.571	KRDCKR32M	7.20	SVS00B,0B,1B,2B,3B,SVUBB1,BB2
3554369	CV50BKR50157	CV50	KR50	2.56	1.571	KRDCKR50M	6.70	SVS4B,5B,SVU65,SVUBB2
3554370	CV50BKR63236	CV50	KR63	3.35	2.358	KRDCKR63M	7.70	SVS6B,7B,8B
3554371	CV50BKR80275	CV50	KR80	3.74	2.752	KRDCKR80M	9.40	SVU92,120

NOTE: For more information on Romicon boring systems, see the Kennametal Innovations Master Catalog Cutting Tools 2013.

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



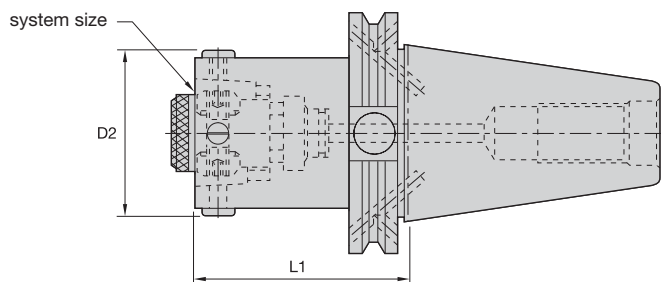
■ **KM-CV Form B/AD**



order number	catalog number	system size	D2	D21	L1	L2	KM spare parts package	wrench size actuation screw	ft. lbs.	lbs
2992484	CV50BKM32157	KM32	1.26	2.75	1.58	.12	KM32PKG3L	5mm	6	6.60
2992485	CV50BKM32354	KM32	1.26	2.75	3.54	1.89	KM32PKG3S	5mm	6	7.10
2992486	CV50BKM40157	KM40	1.57	2.75	1.58	.12	KM40PKG3L	6mm	9	6.61
2992487	CV50BKM40394	KM40	1.57	2.75	3.94	2.28	KM40PKG3S	6mm	9	7.63
2992488	CV50BKM50236	KM50	1.97	2.75	2.36	.16	KM50PKG3L	10mm	20	7.59
2992489	CV50BKM50472	KM50	1.97	2.75	4.72	3.07	KM50PKG3S	10mm	20	8.83
2992490	CV50BKM50630	KM50	1.97	2.75	6.30	4.65	KM50PKG3S	10mm	20	9.95
2992491	CV50BKM63236	KM63	2.48	2.75	2.36	.20	KM63PKG3L	12mm	35	7.39
2992492	CV50BKM63551	KM63	2.48	2.75	5.51	4.06	KM63PKG3S	12mm	35	11.04
2992493	CV50BKM63709	KM63	2.48	2.75	7.09	5.63	KM63PKG3S	12mm	35	13.12
2992494	CV50BKM80319	KM80	3.15	—	3.19	—	KM80PKG3S	14mm	58	9.04

NOTE: These products only available in the U.S., Canada, and Japan.
Do not overtorque actuation screw; use torque recommendations above.
Supplied with KM actuation mechanism.
For retention knobs, see page L45.

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



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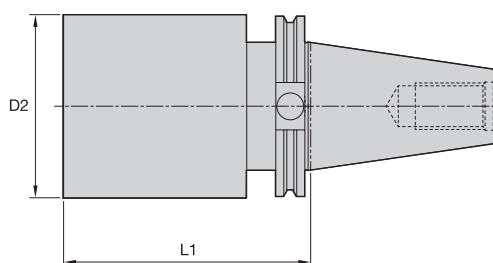
■ HSK-CV Form B/AD

order number	catalog number	system size	D2	L1	wrench size actuation screw	ft. lbs.	lbs
1533058	CV50BHSK50197	HSK50	2.17	1.97	4mm	11	6.39
1533059	CV50BHSK63236	HSK63	2.76	2.36	5mm	15	6.83

NOTE: Do not overtorque actuation screw; use torque recommendations above.
Supplied with actuation mechanism and sealing ring.
For retention knobs, see page L45.

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

- Machinable front 20–30 HRC.



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■ BB-CV Form A

order number	catalog number	D2	L1	lbs
1065951	CV50BB400120	4.00	12.00	44.56
1020558	CV50BB400600	4.00	6.00	23.23
1020560	CV50BB600120	6.00	12.00	91.40
1020559	CV50BB600600	6.00	6.00	43.50

NOTE: For retention knobs, see page L45.