



The Kennametal Solution

Kennametal Global Engineered Solutions. Coordinated global resources with world-class manufacturing, process development, and implementation capabilities.

No matter how small or large your project.

- Whether it's a single tailored tool or the development of a comprehensive manufacturing process, Kennametal's team can manage the development, personnel training, and successful implementation of the complete solution.

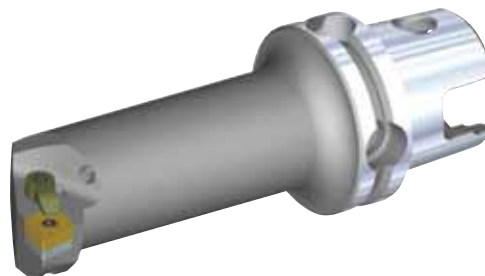
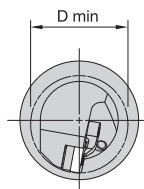
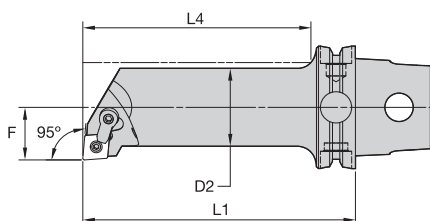
Regardless of where you're located, Kennametal is everywhere you are.

- With Kennametal's team, you receive globally coordinated manufacturing, process development, implementation, and optimisation support and key alliances with machine tool builders and other leading technology manufacturers that ensure a complete solution.

Experience the advantages at your Authorized Kennametal Distributor or at www.kennametal.com.

www.kennametal.com





■ MCLN 95°

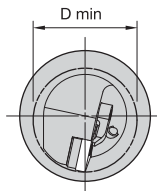
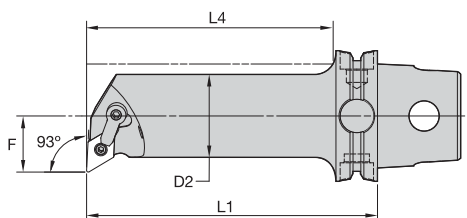
order number	catalog number	D2		D min		F		L4		L1		gage insert	kg	lbs
		mm	in	mm	in	mm	in	mm	in	mm	in			
right hand														
2265329	KM63TSS25FMCLNR12	25	.98	32	1.26	17	.669	50	1.99	80	3.150	CN..120408/CN..432	0,90	1.99
2265327	KM63TSS25KMCLNR12	25	.98	32	1.26	17	.669	88	3.47	125	4.921	CN..120408/CN..432	1,14	2.52
2265343	KM63TSS32GMCLNR12	32	1.26	40	1.57	22	.866	62	2.44	90	3.543	CN..120408/CN..432	1,05	2.32
2265331	KM63TSS32LMCLNR12	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	CN..120408/CN..432	1,37	3.01
2265347	KM63TSS40HMCLNR12	40	1.57	50	1.97	27	1.063	77	3.04	100	3.937	CN..120408/CN..432	1,30	2.87
2265345	KM63TSS40LMCLNR12	40	1.57	50	1.97	27	1.063	117	4.61	140	5.512	CN..120408/CN..432	1,69	3.72
2265351	KM63TSS50KMCLNR12	50	1.97	63	2.48	35	1.378	104	4.11	125	4.921	CN..120408/CN..432	1,99	4.40
2265349	KM63TSS50PMCLNR12	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	CN..120408/CN..432	2,68	5.91
left hand														
2265330	KM63TSS25FMCLNL12	25	.98	32	1.26	17	.669	50	1.99	80	3.150	CN..120408/CN..432	0,90	1.99
2265328	KM63TSS25KMCLNL12	25	.98	32	1.26	17	.669	88	3.47	125	4.921	CN..120408/CN..432	1,14	2.52
2265344	KM63TSS32GMCLNL12	32	1.26	40	1.57	22	.866	62	2.44	90	3.543	CN..120408/CN..432	1,06	2.34
2265332	KM63TSS32LMCLNL12	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	CN..120408/CN..432	1,37	3.01
2265348	KM63TSS40HMCLNL12	40	1.57	50	1.97	27	1.063	77	3.04	100	3.937	CN..120408/CN..432	1,33	2.93
2265346	KM63TSS40LMCLNL12	40	1.57	50	1.97	27	1.063	117	4.61	140	5.512	CN..120408/CN..432	1,69	3.72
2265352	KM63TSS50KMCLNL12	50	1.97	63	2.48	35	1.378	104	4.11	125	4.921	CN..120408/CN..432	2,01	4.43
2265350	KM63TSS50PMCLNL12	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	CN..120408/CN..432	2,68	5.91

(continued)

(MCLN 95° continued)

■ Spare Parts

				
catalog number	shim	lock pin	clamp	clamp screw
right hand				
KM63TSS25FMCLNR12	—	KLM43	CKM20LP	STCM11
KM63TSS25KMCLNR12	—	KLM43	CKM20LP	STCM11
KM63TSS32GMCLNR12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS32LMCLNR12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS40HMCLNR12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS40LMCLNR12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS50KMCLNR12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS50PMCLNR12	ICSN432	KLM46	CKM20LP	STCM11
left hand				
KM63TSS25FMCLNL12	—	KLM43	CKM20LP	STCM11
KM63TSS25KMCLNL12	—	KLM43	CKM20LP	STCM11
KM63TSS32GMCLNL12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS32LMCLNL12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS40HMCLNL12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS40LMCLNL12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS50KMCLNL12	ICSN432	KLM46	CKM20LP	STCM11
KM63TSS50PMCLNL12	ICSN432	KLM46	CKM20LP	STCM11



■ MDUN 93°

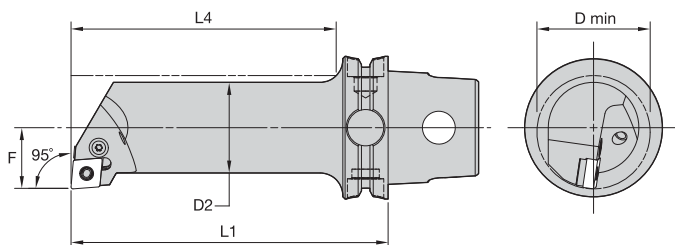
		D2		D min		F		L4		L1					
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in	gage insert	kg	lbs	
right hand															
2265355	KM63TSS25FMDUNR15	25	.98	32	1.26	17	.669	45	1.99	80	3.150	DN..150408/DN..432	0,95	2.09	
2265353	KM63TSS25KMDUNR15	25	.98	32	1.26	17	.669	88	3.47	125	4.921	DN..150408/DN..432	1,13	2.50	
2265359	KM63TSS32GMDUNR15	32	1.26	40	1.57	22	.866	62	2.44	90	3.543	DN..150408/DN..432	1,05	2.30	
2265357	KM63TSS32LMDUNR15	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	DN..150408/DN..432	1,36	2.99	
2265363	KM63TSS40HMDUNR15	40	1.57	50	1.97	27	1.063	77	3.04	100	3.937	DN..150408/DN..432	1,31	2.89	
2265361	KM63TSS40LMDUNR15	40	1.57	50	1.97	27	1.063	117	4.61	140	5.512	DN..150408/DN..432	1,69	3.73	
2265367	KM63TSS50KMDUNR15	50	1.97	63	2.48	35	1.378	104	4.11	125	4.921	DN..150408/DN..432	1,97	4.34	
2265365	KM63TSS50PMDUNR15	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	DN..150408/DN..432	2,63	5.80	
left hand															
2265356	KM63TSS25FMDUNL15	25	.98	32	1.26	17	.669	45	1.99	80	3.150	DN..150408/DN..432	0,94	2.08	
2265354	KM63TSS25KMDUNL15	25	.98	32	1.26	17	.669	88	3.47	125	4.921	DN..150408/DN..432	1,13	2.50	
2265360	KM63TSS32GMDUNL15	32	1.26	40	1.57	22	.866	62	2.44	90	3.543	DN..150408/DN..432	1,05	2.30	
2265358	KM63TSS32LMDUNL15	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	DN..150408/DN..432	1,36	2.99	
2265364	KM63TSS40HMDUNL15	40	1.57	50	1.97	27	1.063	77	3.04	100	3.937	DN..150408/DN..432	1,32	2.90	
2265362	KM63TSS40LMDUNL15	40	1.57	50	1.97	27	1.063	117	4.61	140	5.512	DN..150408/DN..432	1,70	3.74	
2265368	KM63TSS50KMDUNL15	50	1.97	63	2.48	35	1.378	104	4.11	125	4.921	DN..150408/DN..432	1,97	4.34	
2265366	KM63TSS50PMDUNL15	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	DN..150408/DN..432	2,63	5.80	

(continued)

(MDUN 93° continued)

■ Spare Parts

catalog number	 shim	 lock pin	 clamp	 clamp screw
right hand				
KM63TSS25FMDUNR15	—	KLM43	CKM20LP	STCM11
KM63TSS25KMDUNR15	—	KLM43	CKM20LP	STCM11
KM63TSS32GMDUNR15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS32LMDUNR15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS40HMDUNR15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS40LMDUNR15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS50KMDUNR15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS50PMDUNR15	IDSN432	KLM46	CKM23LP	STCM11
left hand				
KM63TSS25FMDUNL15	—	KLM43	CKM20LP	STCM11
KM63TSS25KMDUNL15	—	KLM43	CKM20LP	STCM11
KM63TSS32GMDUNL15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS32LMDUNL15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS40HMDUNL15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS40LMDUNL15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS50KMDUNL15	IDSN432	KLM46	CKM23LP	STCM11
KM63TSS50PMDUNL15	IDSN432	KLM46	CKM23LP	STCM11

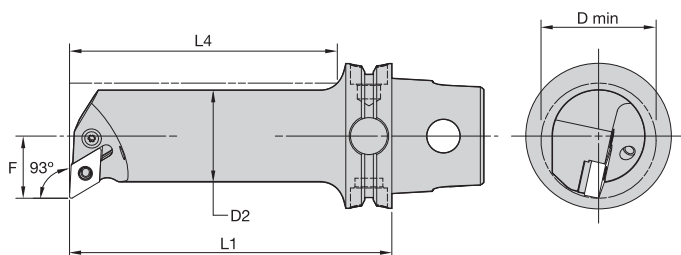


■ PCLN 95°

		D2		D min		F		L4		L1				
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in	gage insert	kg	lbs
right hand														
2407961	KM63TSS25KPDUNR11	25	.98	32	1.26	17	.669	88	3.47	125	4.921	CN..120408/CN..432	1,11	2.45
2407963	KM63TSS32LPCLNR12	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	CN..120408/CN..432	1,36	3.00
2407965	KM63TSS40LPCLNR12	40	1.57	50	1.97	27	1.063	117	4.61	140	5.512	CN..120408/CN..432	1,68	3.70
2407967	KM63TSS50PPCLNR12	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	CN..120408/CN..432	2,67	5.89
left hand														
2407962	KM63TSS25KPDUNL11	25	.98	32	1.26	17	.669	88	3.47	125	4.921	CN..120408/CN..432	1,13	2.50
2407964	KM63TSS32LPCLNL12	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	CN..120408/CN..432	1,36	3.00
2407966	KM63TSS32LPDUNR15	40	1.57	50	1.97	27	1.063	117	4.61	140	5.512	CN..120408/CN..432	1,68	3.70
2407968	KM63TSS32LPDUNL15	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	CN..120408/CN..432	2,67	5.89

■ Spare Parts

catalog number	    				
	shim	lever screw	shim pin	toggle lever	punch
right hand					
KM63TSS32LPCLNR12	512.112	514.123	513.023	511.023	515.018
KM63TSS50PPCLNR12	512.112	514.123	513.023	511.023	515.018
KM63TSS25KPDUNR11	—	514.122	—	511.022	—
KM63TSS40LPCLNR12	512.112	514.123	513.023	511.023	515.018
left hand					
KM63TSS32LPCLNL12	512.112	514.123	513.023	511.023	515.018
KM63TSS25KPDUNL11	—	514.122	—	511.022	—
KM63TSS32LPDUNR15	512.112	514.123	513.023	511.023	515.018
KM63TSS32LPDUNL15	512.112	514.123	513.023	511.023	515.018

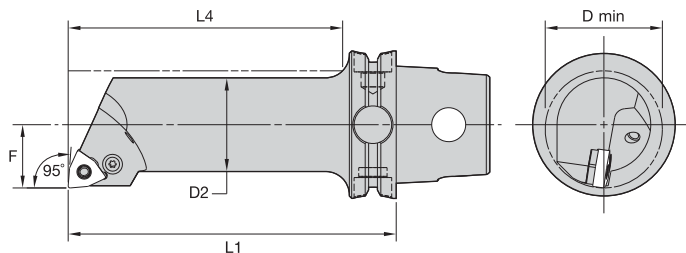


■ PDUN 93°

		D2		D min		F		L4		L1					
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in	gage insert	kg	lbs	
right hand															
2407985	KM63TSS25KPDUNR11	25	.98	32	1.26	17	.669	89	3.49	125	4.921	DN..110408/DN..332	1,06	2.340	
2407986	KM63TSS32LPDUNR15	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	DN..150608/DN..442	1,35	2.980	
2407988	KM63TSS40LPDUNR15	40	1.57	50	1.97	27	1.063	117	4.62	140	5.512	DN..150608/DN..442	1,70	3.750	
2407990	KM63TSS50PPDUNR15	50	1.97	63	2.48	35	1.378	149	5.87	170	6.693	DN..150608/DN..442	2,73	6.030	
left hand															
2257147	KM63TSS25KPDUNL11	25	.98	32	1.26	17	.669	89	3.49	125	4.921	DN..110408/DN..332	1,06	2.340	
2407987	KM63TSS32LPDUNL15	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	DN..150608/DN..442	1,35	2.970	
2407989	KM63TSS40LPDUNL15	40	1.57	50	1.97	27	1.063	113	4.46	140	5.512	DN..150608/DN..442	1,70	3.750	
2407991	KM63TSS50PPDUNL15	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	DN..150608/DN..442	2,73	6.030	

■ Spare Parts

					
catalog number	shim	lever screw	shim pin	toggle lever	punch
right hand					
KM63TSS25KPDUNR11	—	514.112	—	511.015	—
KM63TSS32LPDUNR15	512.153	514.128	513.023	511.024	515.018
KM63TSS40LPDUNR15	512.153	514.128	513.023	511.024	515.018
KM63TSS50PPDUNR15	512.153	514.128	513.023	511.024	515.018
left hand					
KM63TSS25KPDUNL11	—	514.112	—	511.015	—
KM63TSS32LPDUNL15	512.153	514.128	513.023	511.024	515.018
KM63TSS40LPDUNL15	512.153	514.128	513.023	511.024	515.018
KM63TSS50PPDUNL15	512.153	514.128	513.023	511.024	515.018

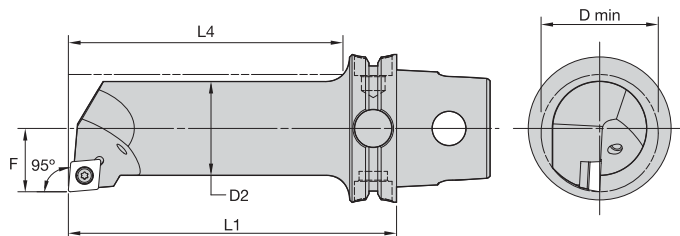


■ PWLN 95°

		D2		D min		F		L4		L1				
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in	gage insert	kg	lbs
right hand														
2408039	KM63TSS25KPWLNRO8	25	.98	32	1.26	17	.669	88	3.47	125	4.921	WN..080408/WN..432	1,14	2.52
2408041	KM63TSS32LPWLNRO8	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	WN..080408/WN..432	1,36	2.99
2408043	KM63TSS40LPWLNRO8	40	1.57	50	1.97	27	1.063	117	4.61	140	5.512	WN..080408/WN..432	1,67	3.67
2408045	KM63TSS50PPWLNRO8	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	WN..080408/WN..432	2,62	5.77
left hand														
2408040	KM63TSS25KPWLNLO8	25	.98	32	1.26	17	.669	88	3.47	125	4.921	WN..080408/WN..432	1,13	2.48
2408042	KM63TSS32LPWLNLO8	32	1.26	40	1.57	22	.866	112	4.41	140	5.512	WN..080408/WN..432	1,36	2.99
2408044	KM63TSS40LPWLNLO8	40	1.57	50	1.97	27	1.063	117	4.61	140	5.512	WN..080408/WN..432	1,67	3.67
2408046	KM63TSS50PPWLNLO8	50	1.97	63	2.48	35	1.378	149	5.88	170	6.693	WN..080408/WN..432	2,61	5.75

■ Spare Parts

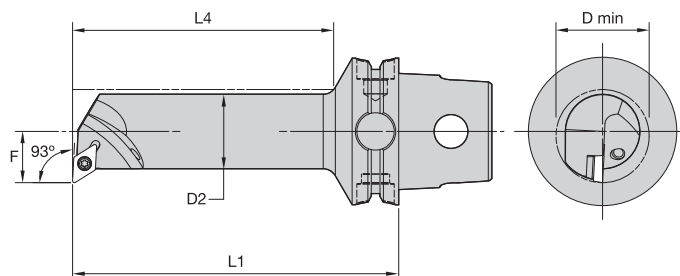
catalog number	    				
	shim	lever lock screw	shim pin	toggle lever	punch
right hand					
KM63TSS25KPWLNRO8	—	514.122	—	511.022	—
KM63TSS32LPWLNRO8	512.135	514.123	513.023	511.023	515.018
KM63TSS40LPWLNRO8	512.135	514.123	513.023	511.023	515.018
KM63TSS50PPWLNRO8	512.135	514.123	513.023	511.023	515.018
left hand					
KM63TSS25KPWLNLO8	—	514.122	—	511.022	—
KM63TSS32LPWLNLO8	512.135	514.123	513.023	511.023	515.018
KM63TSS40LPWLNLO8	512.135	514.123	513.023	511.023	515.018
KM63TSS50PPWLNLO8	512.135	514.123	513.023	511.023	515.018



■ SCLC 95°



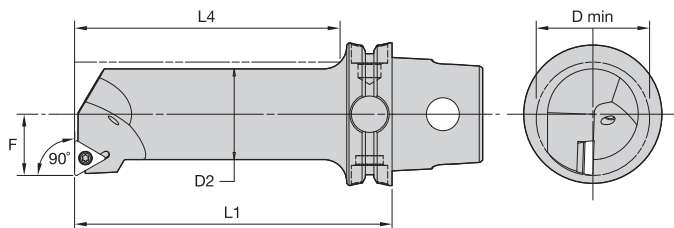
order number	catalog number	D2		D min		F		L4		L1		gage insert	insert screw	shim	shim screw	kg	lbs
	right hand																
2414908	KM63TSS40LSCLCR12	40	1.57	50	1.97	27	1.063	117	4.612	140	5.512	CC..120408/CC..432	MS1158	SKCP453	SRS4	1,71	3.76
	left hand																
2414909	KM63TSS40LSCLCL12	40	1.57	50	1.97	27	1.063	117	4.612	140	5.512	CC..120408/CC..432	MS1158	SKCP453	SRS4	1,70	3.76



■ SDUC 93°



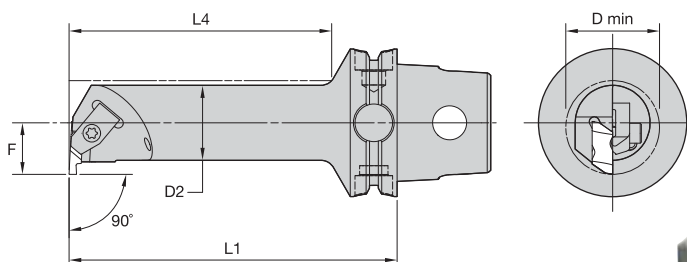
order number	catalog number	D2		D min		F		L4		L1		gage insert	insert screw	shim	shim screw	kg	lbs
	right hand																
2414894	KM63TSS32LSUDCR11	32	1.26	40	1.57	22	.866	112	4.418	140	5.512	DC..11T308/DC..3252	MS1156	SKDP343	SRS3	1,35	2.98
	left hand																
2414895	KM63TSS32LSUDCL11	32	1.26	40	1.57	22	.866	112	4.418	140	5.512	DC..11T308/DC..3252	MS1156	SKDP343	SRS3	1,35	2.98



■ STFC 90°



		D2		D min		F		L4		L1							
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in	gage insert	insert screw	shim	shim screw	kg	lbs
2414901	KM63TSS40LSTFCR16	40	1.57	50	1.97	27	1.063	117	4.612	140	5.512	TC..16T308/TC..3252	MS1156	SKTP343	SRS3	1,71	3.77
2414902	KM63TSS40LSTFCL16	40	1.57	50	1.97	27	1.063	117	4.612	140	5.512	TC..16T308/TC..3252	MS1156	SKTP343	SRS3	1,71	3.77



■ NE 90° • Steel

		D2		D min		F		L4		L1				
order number	catalog number	mm	in	mm	in	mm	in	mm	in	mm	in	gage insert	kg	lbs
	right hand													
2265369	KM63TSS32LNER3	32	1.26	40	1.57	22	.866	112	4.412	140	5.512	NG3L	1,34	2.95
	left hand													
2265370	KM63TSS32LNEL3	32	1.26	40	1.57	22	.866	112	4.412	140	5.512	NG3R	1,34	2.95

■ Spare Parts

catalog number	clamp	clamp screw
right hand KM63TSS32LNER3	CM73	MS1489
left hand KM63TSS32LNEL3	CM72	MS1489

Common Challenges in Internal Machining

Internal machining operations are very sensitive to chatter and vibrations.

Common challenges include:

- Unfavorable geometric circumstances.
- Machining at extended length-to-diameter ratios.

Additionally, internal machining offers little space for a stable tool and has restrictions for coolant supply and chip removal. These factors can lead to chattering, poor surface finish, noisy vibrations, and workpieces that are out of tolerance. Kennametal solves these problems with our portfolio of Tunable Boring Bars.

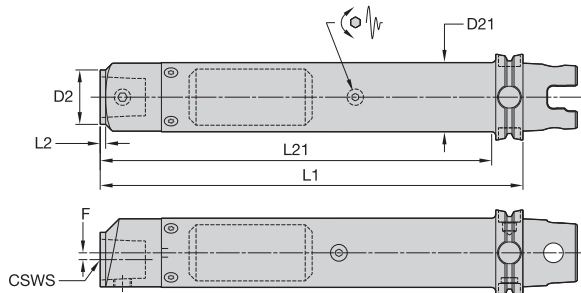
Kennametal Tunable Tooling

The Kennametal Tunable Boring Bars are manufactured with an internal dampening package designed to eliminate chatter in deep-hole boring applications. We manufacture standard tunable bars and have extensive capabilities to design and produce almost any style of tunable product, including boring bars, extensions, holders, rotating adapters, and modular sections.

Advantages of Kennametal Tunable Tooling

The features of the Kennametal proprietary Tunable Boring Bar system provide significant advantages:

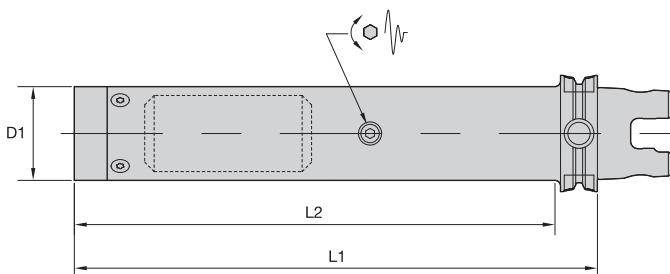
- **Optimal rigidity**
Improved surface quality and close tolerances due to vibration-free machining.
- **Machining without chatter or vibration**
Less noise exposure and improved machining results.
- **Increased productivity**
Larger depth of cut and better chip removal by up to 10:1 (steel) and 15:1 (carbide) length-to-diameter ratio.
- **Tunable damping mechanism**
Bar can be tuned on the machine and tool can be adjusted to account for different vibration behavior.



■ TTB • KM Tunable Bar

order number	catalog number	CSWS system size	D2		D21		F		L1		L2		L21	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
3901267	KM63TSD40TTB15KM40	KM40	40,00	1.575	63,50	2.500	11,75	.463	386,92	15.233	4,00	.157	386,92	15.233
3901269	KM63TSD32TTB16KM40	KM40	40,00	1.575	50,00	1.969	5,00	.197	412,32	16.233	4,00	.157	392,32	15.446
3901268	KM63TSD28TTB14KM40	KM40	40,00	1.575	44,45	1.750	0,00	.000	361,52	14.233	4,00	.157	341,52	13.446
3901270	KM63TSD40TTB20KM40	KM40	40,00	1.575	63,50	2.500	11,75	.463	513,92	20.233	4,00	.157	513,92	20.233
3901266	KM63TSD32TTB12KM40	KM40	40,00	1.575	50,00	1.969	5,00	.197	310,71	12.233	4,00	.157	290,71	11.445
3901265	KM63TSD24TTB9KM40	KM40	40,00	1.575	38,10	1.500	0,00	.000	234,55	9.234	214,55	8.447	—	—

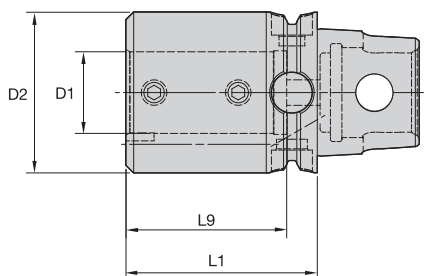
NOTE: For technical information, refer to page M90.



■ TTB • KM Tunable Bar • Bolt-On Head

order number	catalog number	D1		L1		L2		SHCS 3 required	SHCS 1 required
		mm	in	mm	in	mm	in		
3768909	KM63TSD32TTB6	50,80	2.000	134,3	5.29	111,1	4.37	—	S339
3768910	KM63TSD24TTB9	38,10	1.500	207,3	8.16	187,3	7.38	S327	S330
3768911	KM63TSD32TTB12	50,80	2.000	283,5	11.16	263,5	10.38	S337	S340
3768933	KM63TSD28TTB14	44,45	1.750	334,3	13.16	314,3	12.38	S337	S340
3768912	KM63TSD40TTB15	63,50	2.500	359,7	14.16	359,7	14.16	S350	S353
3768934	KM63TSD32TTB16	50,80	2.000	385,1	15.16	365,1	14.37	S337	S340
3768935	KM63TSD40TTB20	63,50	2.500	486,7	19.16	466,7	18.38	S350	S353

NOTE: For technical information, refer to page M90.



■ BA • Boring Bar Adapter • Internal and External Coolant • Metric



order number	catalog number	D1	D2	L1	L9	clamp screw	wrench size clamp screw	Nm	kg
2269898	KM63TSBA10055M	10	40	55	48	MS1211	4mm	15	0,98
2269899	KM63TSBA12060M	12	40	60	52	MS1211	4mm	15	1,01
2269900	KM63TSBA16065M	16	40	65	55	MS1212	5mm	25	1,02
2269901	KM63TSBA20070M	20	40	70	58	MS1212	5mm	25	0,99
2269902	KM63TSBA25070M	25	50	70	58	MS1212	5mm	25	1,17
2269903	KM63TSBA32075M	32	63	75	63	MS1205	5mm	25	1,60
2255549	KM63TSBA40105M	40	70	105	75	MS1935	6mm	45	2,43

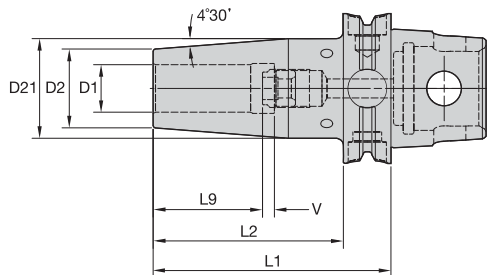
■ BA • Boring Bar Adapter • Internal and External Coolant • Inch



order number	catalog number	D1	D2	L1	L9	clamp screw	wrench size clamp screw	ft. lbs.	lbs
2269893	KM63TSBA10256	5/8	1.58	2.559	2.17	S862	3/16	25	2.22
2269895	KM63TSBA16276	1	1.97	2.756	2.28	S862	3/16	25	2.54
2269891	KM63TSBA06217	3/8	1.58	2.165	1.89	S843	1/8	8	2.15
2269892	KM63TSBA08236	1/2	1.58	2.362	2.05	S852	5/32	15	2.21
2269894	KM63TSBA12276	3/4	1.58	2.756	2.28	S862	3/16	25	2.23
2269896	KM63TSBA20295	1 1/4	2.48	2.953	2.48	S863	3/16	25	3.41
2269897	KM63TSBA24413	1 1/2	2.76	4.134	2.95	S884	1/4	60	5.45

NOTE: Do not overtighten clamp screw; use torque recommendations above.
 Supplied with clamp screw.
 Clamp screw wrench not included.

- 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



■ HPV TT • Metric



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	kg
3869194	KM63TSHPVTT06080M	6	21	27	80	60	26	10	TTSS05014M	2,5mm	0,83
3869195	KM63TSHPVTT08080M	8	21	27	80	60	26	10	TTSS06014M	3mm	0,83
3869196	KM63TSHPVTT10090M	10	24	32	90	70	31	10	TTSS08014M	4mm	0,95
3869197	KM63TSHPVTT12090M	12	24	32	90	70	36	10	TTSS10014M	5mm	0,93
3869198	KM63TSHPVTT14100M	14	27	34	100	80	36	10	TTSS10014M	5mm	1,05
3869199	KM63TSHPVTT16100M	16	27	34	100	80	39	10	TTSS12014M	6mm	1,03
3869200	KM63TSHPVTT18100M	18	33	42	100	80	39	10	TTSS12014M	6mm	1,24
3869201	KM63TSHPVTT20100M	20	33	42	100	80	41	10	TTSS16014M	8mm	1,21
3869202	KM63TSHPVTT25120M	25	44	53	120	100	47	10	TTSS16014M	8mm	1,92
3869203	KM63TSHPVTT32120M	32	44	53	120	100	51	10	TTSS16014M	8mm	1,76

(continued)

(HPV TT continued)

Cutting Tool Shank Requirements inch (industry standard)

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

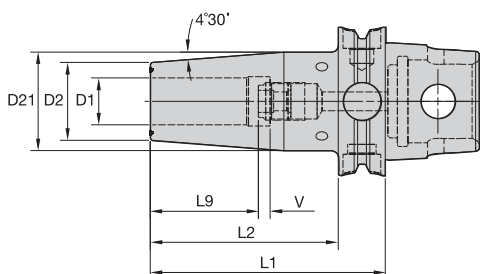
■ HPV TT • Inch



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	lbs
3869253	KM63TSHPVTT025315	1/4	.827	1.059	3.150	2.362	1.024	.394	TTSS05014M	2,5mm	1.84
3869254	KM63TSHPVTT031315	5/16	.827	1.059	3.150	2.362	1.024	.394	TTSS06014M	3mm	1.82
3869255	KM63TSHPVTT038335	3/8	.945	1.256	3.347	2.559	1.221	.394	TTSS08014M	4mm	2.02
3869256	KM63TSHPVTT044354	7/16	.945	1.256	3.543	2.756	1.417	.394	TTSS10014M	5mm	2.06
3869257	KM63TSHPVTT050354	1/2	.945	1.256	3.543	2.756	1.417	.394	TTSS10014M	5mm	2.04
3869258	KM63TSHPVTT056354	9/16	1.063	1.335	3.543	2.756	1.417	.394	TTSS10014M	5mm	2.16
3869259	KM63TSHPVTT062374	5/8	1.063	1.335	3.740	2.953	1.535	.394	TTSS12014M	6mm	2.19
3869260	KM63TSHPVTT068374	11/16	1.299	1.650	3.740	2.953	1.535	.394	TTSS12014M	6mm	2.63
3869261	KM63TSHPVTT075394	3/4	1.299	1.650	3.937	3.150	1.614	.394	TTSS16014M	8mm	2.68
3869262	KM63TSHPVTT088394	7/8	1.299	1.650	3.937	3.150	1.614	.394	TTSS16014M	8mm	2.59
3869263	KM63TSHPVTT100453	1	1.732	2.083	4.528	3.740	1.850	.394	TTSS16014M	8mm	4.03
3869264	KM63TSHPVTT125472	1 1/4	1.732	2.083	4.724	3.937	2.008	.394	TTSS16014M	8mm	3.88

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.
 Shrink Fit accessories, see page L12–L13.
 Optional M6~1.0P x 5 lg fine-balancing screw set (10 pieces) is available.
 Order number is MS1276PKG and must be ordered separately.

- 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



■ HPV TT HT • Metric



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	kg
3869209	KM63TSHPVTTHT12090M	12	24	1	90	70	36	10	TTSS10014M	5mm	0,93
3869210	KM63TSHPVTTHT14100M	14	27	1	100	80	36	10	TTSS10014M	5mm	1,05
3869211	KM63TSHPVTTHT16100M	16	27	1	100	80	39	10	TTSS12014M	6mm	1,03
3869212	KM63TSHPVTTHT18100M	18	33	2	100	80	39	10	TTSS12014M	6mm	1,24
3869213	KM63TSHPVTTHT20100M	20	33	2	100	80	41	10	TTSS16014M	8mm	1,21
3869214	KM63TSHPVTTHT25120M	25	44	2	120	100	47	10	TTSS16014M	8mm	1,92
3869215	KM63TSHPVTTHT32120M	32	44	2	120	100	51	10	TTSS16014M	8mm	1,76

(continued)

(HPV TT HT continued)

Cutting Tool Shank Requirements
inch (industry standard)

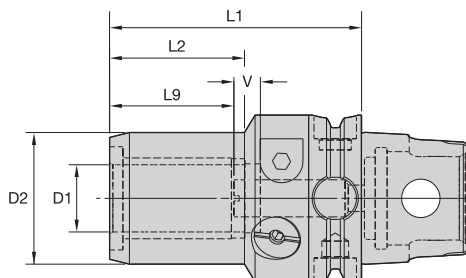
cutting tool shank diameter	tolerance
1/2, 9/16, 5/8, & 11/16	.0000/- .0004
3/4, 7/8, 1, & 1-1/4	.0000/- .0005

■ HPV TT HT • Inch



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	lbs
3869234	KM63TSHPVTTHT050354	1/2	.945	1.256	3.543	2.756	1.417	.394	TTSS10014M	5mm	2.04
3869235	KM63TSHPVTTHT056354	9/16	1.063	1.335	3.543	2.756	1.417	.394	TTSS10014M	5mm	2.16
3869236	KM63TSHPVTTHT062374	5/8	1.063	1.335	3.740	2.953	1.535	.394	TTSS12014M	6mm	2.19
3869237	KM63TSHPVTTHT068374	11/16	1.299	1.650	3.740	2.953	1.535	.394	TTSS12014M	6mm	2.63
3869238	KM63TSHPVTTHT075394	3/4	1.299	1.650	3.937	3.150	1.614	.394	TTSS16014M	8mm	2.68
3869239	KM63TSHPVTTHT088394	7/8	1.299	1.650	3.937	3.150	1.614	.394	TTSS16014M	8mm	2.59
3869240	KM63TSHPVTTHT100453	1	1.732	2.083	4.528	3.740	1.850	.394	TTSS16014M	8mm	4.03
3869241	KM63TSHPVTTHT125472	1 1/4	1.732	2.083	4.724	3.937	2.008	.394	TTSS16014M	8mm	3.88

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.
Shrink Fit accessories, see page L12–L13.
Optional M6~1.0P x 5 lg fine-balancing screw set (10 pieces) is available.
Order number is MS1276PKG and must be ordered separately.



■ HC • Metric



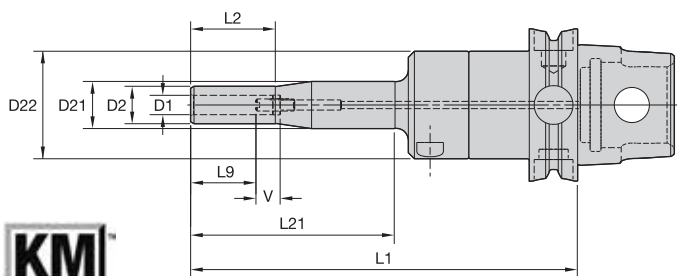
order number	catalog number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	length adjustment wrench	wrench size stop screw	kg
2388650	KM63TSHC06070M	6	26	70	33	27	10	170.135	5mm	170.002	2,5mm	1,08
2388651	KM63TSHC08070M	8	28	70	33	27	10	170.135	5mm	170.002	2,5mm	1,10
2388652	KM63TSHC10075M	10	30	75	36	31	10	170.135	5mm	170.002	2,5mm	1,17
2388653	KM63TSHC12080M	12	32	80	41	36	10	170.135	5mm	170.002	2,5mm	1,21
2388654	KM63TSHC14080M	14	34	80	43	36	10	170.135	5mm	170.003	2,5mm	1,18
2388655	KM63TSHC16080M	16	38	80	48	39	10	170.135	5mm	170.003	3mm	1,17
2388656	KM63TSHC18080M	18	40	80	47	39	10	170.135	5mm	170.003	3mm	1,19
2388657	KM63TSHC20085M	20	42	85	48	41	10	170.135	5mm	170.003	3mm	1,32
2388658	KM63TSHC25095M	25	50	95	51	47	10	170.136	6mm	170.004	4mm	1,64
2388659	KM63TSHC32100M	32	60	100	59	51	10	170.136	6mm	170.004	4mm	1,92

■ HC • Inch



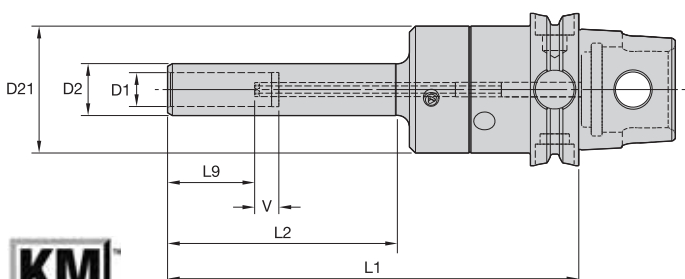
order number	catalog number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	length adjustment wrench	wrench size stop screw	lbs
2388643	KM63TSHC025288	1/4	1.01	2.875	1.30	1.06	.39	170.135	5mm	170.002	2,5mm	2.53
2388644	KM63TSHC038300	3/8	1.17	3.000	1.42	1.22	.39	170.135	5mm	170.002	2,5mm	2.64
2388645	KM63TSHC050325	1/2	1.24	3.250	1.61	1.42	.39	170.135	5mm	170.002	2,5mm	2.79
2388646	KM63TSHC062325	5/8	1.48	3.250	1.87	1.54	.39	170.135	5mm	170.003	3mm	2.71
2388647	KM63TSHC075338	3/4	1.64	3.375	1.89	1.61	.39	170.135	5mm	170.003	3mm	2.97
2388648	KM63TSHC100375	1	1.96	3.750	2.01	1.85	.39	170.136	6mm	170.004	4mm	3.61
2388649	KM63TSHC125400	1 1/4	2.35	4.000	2.32	2.01	.39	170.136	6mm	170.004	4mm	4.33

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



■ HCSLT • Metric

order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	actuation wrench	wrench size actuation screw	length adjustment wrench	wrench size stop screw	kg
3055503	KM63TSHCSLT06160M	6	14	20	44	160	35	85	27	10	170.135	5mm	170.002	2,5mm	1,36
3055504	KM63TSHCSLT08160M	8	16	20	44	160	35	85	27	10	170.135	5mm	170.002	2,5mm	1,37
3055505	KM63TSHCSLT10160M	10	18	44	—	160	85	140	31	10	170.135	5mm	170.003	3mm	1,35

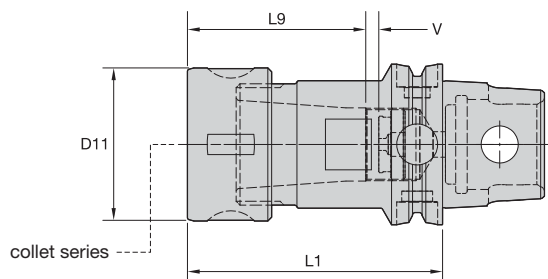


■ HCSL • Metric

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
3055506	KM63TSHCSL12170M	12	20	44	170	95	36	10	170.135	5mm	170.002	2,5mm	1,40
3055507	KM63TSHCSL14170M	14	22	52	170	95	36	10	170.135	5mm	170.002	2,5mm	1,66
3055508	KM63TSHCSL16170M	16	24	52	170	95	39	10	170.135	5mm	170.002	2,5mm	1,67
3055509	KM63TSHCSL18170M	18	26	52	170	95	39	10	170.135	5mm	170.002	2,5mm	1,71
3055510	KM63TSHCSL20170M	20	28	52	170	95	41	10	170.135	5mm	170.002	2,5mm	1,75

NOTE: Do not overtorque clamp screw. Use supplied wrench and tighten by hand until stop is felt.
 Hydraulic chuck technical section, see page M84.
 Reduction sleeves are available and must be ordered separately; see page J2.
 Supplied with stop screw.

- Tremendous Grip (3:1 advantage).



TG collet series	Collet Capacity		mm		inch	
	min	max	min	max	min	max
TG100	2,6	25,5	5/64	1		

■ Collet Chuck • Round Nut

order number	catalog number	collet series	D11		L1		L9		V		kg	lbs
			mm	in	mm	in	mm	in	mm	in		
2384711	KM63TSTG100100M	TG100	60	2.36	100	3.937	69,0	2.72	9	.36	1,54	3.40

■ Spare Parts



catalog number	locknut	wrench	Nm	ft. lbs.	stop screw	wrench size stop screw
KM63TSTG100100M	LNA100M	HSW58M	203	150	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.
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.



KMTM The ISO 26622 **QUICK CHANGE** Standard

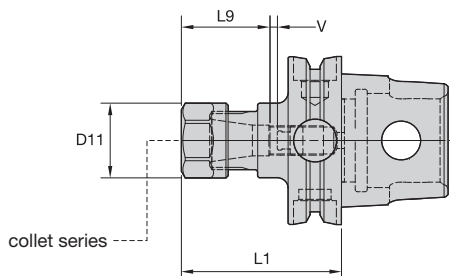
KMTM Quick-Change Tooling — the ISO 26622 Standard.

- 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!

www.kennametal.com

K **KENNAMETAL[®]**

- Grip (2:1 advantage).



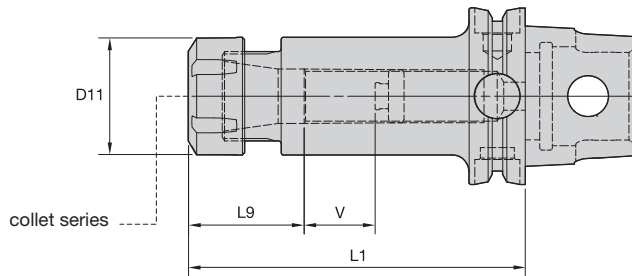
ER collet series	mm		inch	
	min	max	min	max
ER16	0,5	10,0	.02	.41

Collet Chuck • Hex Nut

order number	catalog number	collet series	D11		L1		L9		V		locknut	OEW	stop screw	counterbore collet torque		straight collet torque		kg	lbs
			mm	in	mm	in	mm	in	mm	in				Nm	ft. lbs.	Nm	ft. lbs.		
2255039	KM63TSER16060M	ER16	28	1.10	60	2.362	32	1.26	13	.51	LNHSER16M	OEW25M	SS044038G	40	30	56	42	0,73	1.61
2255041	KM63TSER16120M	ER16	28	1.10	120	4.724	32	1.26	48	1.89	LNHSER16M	OEW25M	SS044038G	40	30	56	42	0,98	2.17

(continued)

(Collet Chuck continued)



KM63TS Shank Tools

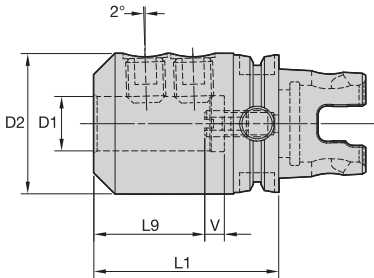


ER collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
ER25	1,0	16,0	.04	.63
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

■ Collet Chuck • Round Nut

order number	catalog number	collet series	D11		L1		L9		V		locknut	wrench	stop screw				
			mm	in	mm	in	mm	in	mm	in				Nm	ft. lbs.	kg	lbs
2255042	KM63TSER25065M	ER25	42	1.65	65	2.559	40,0	1.57	—	—	LNSER25M	ER25WM	—	104	77	0,88	1.93
2255053	KM63TSER25120M	ER25	42	1.65	120	4.724	40,0	1.57	47	1.85	LNSER25M	ER25WM	SS075041G	104	77	1,37	3.03
2255551	KM63TSER32065M	ER32	50	1.97	65	2.559	46,0	1.81	—	—	LNSER32M	ER32WM	—	136	100	0,94	2.08
2253812	KM63TSER32120M	ER32	50	1.97	120	4.724	46,0	1.81	34	1.34	LNSER32M	ER32WM	SS094041G	136	100	1,64	3.62
2255056	KM63TSER40065M	ER40	63	2.48	65	2.559	52,0	2.05	—	—	LNSER40M	ER40WM	—	176	130	1,04	2.30

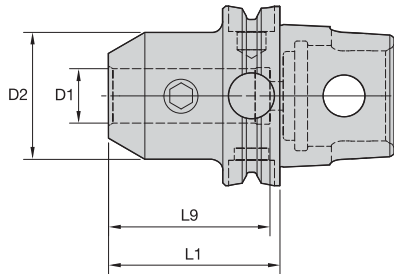
NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.
 Collet chuck technical section, see page M98.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 Interchangeable coolant-style locknuts and coolant disks are available and must be ordered separately; see page L19.
 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.



■ WN • Whistle Notch Adapter

order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	Nm	stop screw	wrench size stop screw	kg
2253809	KM63TSWN20080M	20	52	80	45	10	SS03M026	8mm	95	571.063	5mm	1,41
2253810	KM63TSWN25085M	25	65	85	50	10	SS03M027	10mm	135	571.069	6mm	1,95
2253905	KM63TSWN32095M	32	72	95	54	10	SS03M029	10mm	160	571.069	6mm	2,46

NOTE: Do not overtighten lock screw; use torque recommendations above.
 Supplied with lock screw and stop screw.
 Lock screw and stop screw wrenches are not included.



■ EM • Metric



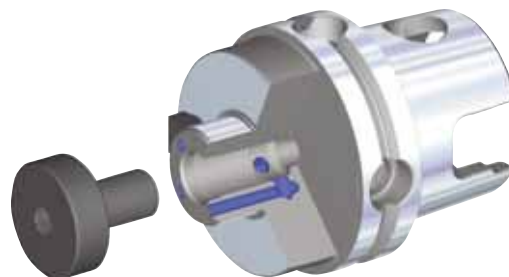
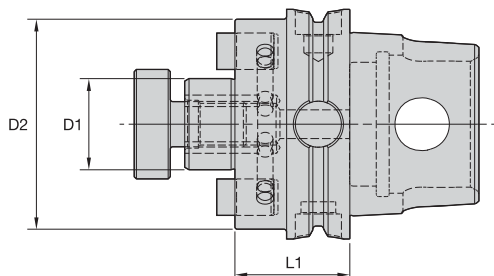
order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	Nm	kg
2253910	KM63TSEM12055M	12	42	55	50	SS03M023	6mm	35	0,91
2253676	KM63TSEM16060M	16	48	60	53	SS03M025	6mm	50	1,05
2269911	KM63TSEM20060M	20	52	60	55	SS03M026	8mm	95	1,10
2258495	KM63TSEM25080M	25	65	80	60	SS03M027	10mm	135	1,82
2255038	KM63TSEM32090M	32	72	90	65	SS03M029	10mm	160	2,31
2269912	KM63TSEM40095M	40	80	95	75	SS03M029	10mm	160	2,74

■ EM • Inch



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
2269904	KM63TSEM050216	1/2	1.38	2.165	1.97	ELS044038PKG	7/32	20	1.76
2269905	KM63TSEM062236	5/8	1.63	2.362	2.09	ELS056050PKG	1/4	40	2.04
2269906	KM63TSEM075236	3/4	1.75	2.362	2.22	ELS062050PKG	5/16	70	2.07
2269907	KM63TSEM088236	7/8	2.00	2.362	2.22	ELS062050PKG	5/16	70	2.28
2269908	KM63TSEM100315	1	2.00	3.150	2.46	ELS075056PKG	3/8	110	2.80
2269909	KM63TSEM125354	1 1/4	2.50	3.543	2.51	ELS075062PKG	3/8	110	4.13
2269910	KM63TSEM150374	1 1/2	2.75	3.740	2.93	ELS075069PKG	3/8	110	4.68

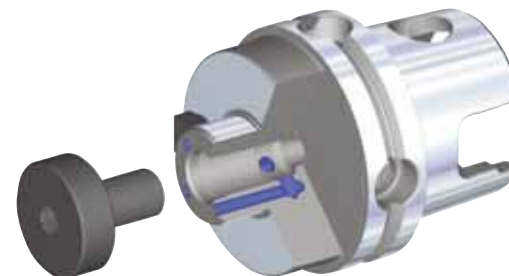
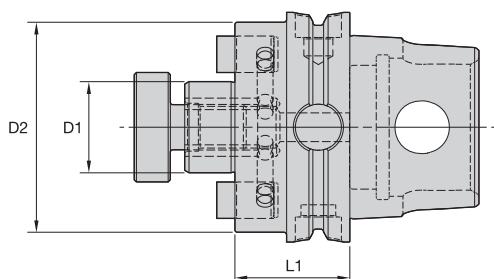
NOTE: Do not overtighten lock screw; use torque recommendations above.
 Supplied with lock screw.
 Lock screw wrench not included.



■ SMC • Metric



order number	catalog number	D1	D2	L1	lock screw	drive key	wrench size lock screw	kg
3950894	KM63TSSMC22028M	22	49	28	MS1234	KDK22M	8mm	0,81
3950895	KM63TSSMC27032M	27	60	32	KLSS27M	KDK27M	10mm	1,02
3950896	KM63TSSMC32040M	32	78	40	KLSS32M	KDK32M	14mm	1,56
3950897	KM63TSSMC40045M	40	89	45	KLSS40M	KDK40M	17mm	2,10

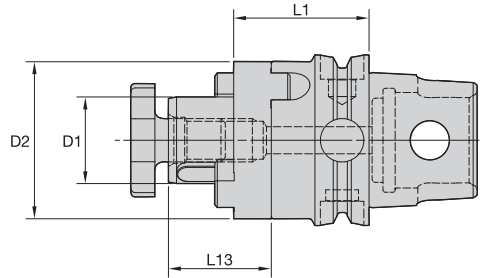


■ SMC • Inch



order number	catalog number	D1	D2	L1	lock screw	drive key	wrench size lock screw	lbs
3950864	KM63TSSMC050102	1/2	1.44	1.024	KLS05	KDK04	3/16	1.53
3950866	KM63TSSMC075126	3/4	1.46	1.260	KLS07	—	1/4	1.77
3950865	KM63TSSMC075126	3/4	1.75	1.260	KLS07	KDK05	1/4	1.84
3950868	KM63TSSMC100126	1	2.19	1.260	KLS10	KDK06	5/16	2.10
3950867	KM63TSSMC100126	1	2.75	1.260	KLS10	KDK06	5/16	2.35
3950869	KM63TSSMC125157	1 1/4	2.88	1.575	KLS12	KDK08	5/16	3.19
3950870	KM63TSSMC150177	1 1/2	3.81	1.772	KLS15	KDK10	3/8	4.86

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.



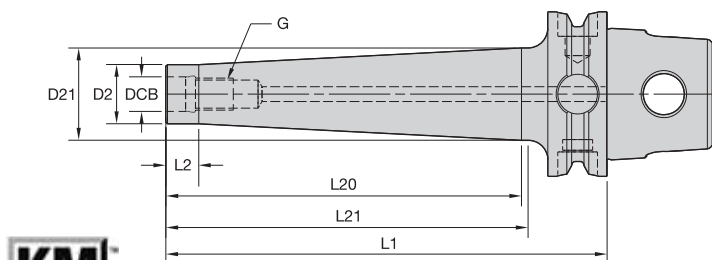
KM63TS Shank Tools

■ CS • Metric



order number	catalog number	D1	D2	L1	L13	lock screw	combi driver	combi drive key	kg
2384735	KM63TSCS27040M	27	48	40	21	KLS27MPKG	CDR27M	CDK27M	1,03
2384736	KM63TSCS32050M	32	58	50	24	KLS32M	CDR32M	CDK32M	1,43
2384737	KM63TSCS40050M	40	70	50	27	KLS40M	CDR40M	CDK40M	1,87

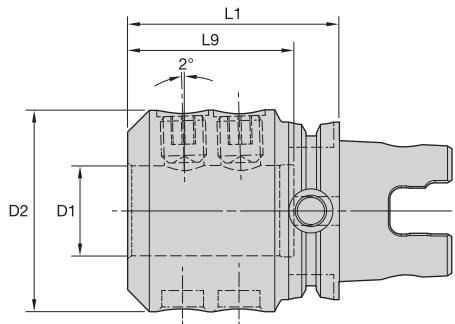
NOTE: Do not overtighten lock screw.
Supplied with lock screw, drive ring, and key.
Lock screw wrench not included.



■ STC

order number	catalog number	DCB	G	D2	D21	L1	L2	L20	L21	kg
4137620	KM63TSSTC06059M	6,5	M6	10	11	59	10	33	33	0,64
4137621	KM63TSSTC06084M	6,5	M6	10	12	84	10	58	58	0,66
4137622	KM63TSSTC06109M	6,5	M6	10	14	109	10	83	83	0,69
4137853	KM63TSSTC08059M	8,5	M8	13	15	59	10	31	33	0,66
4137854	KM63TSSTC08084M	8,5	M8	13	18	84	10	56	58	0,71
4137855	KM63TSSTC08109M	8,5	M8	13	23	109	10	81	83	0,79
4137856	KM63TSSTC08134M	8,5	M8	13	23	134	10	106	108	0,84
4137857	KM63TSSTC10059M	10,5	M10	18	20	59	10	31	33	0,69
4137858	KM63TSSTC10084M	10,5	M10	18	25	84	10	56	58	0,79
4137859	KM63TSSTC10109M	10,5	M10	18	25	109	10	81	83	0,86
4137860	KM63TSSTC10134M	10,5	M10	18	28	134	10	106	108	0,98
4137861	KM63TSSTC12059M	12,5	M12	21	24	59	10	31	33	0,72
4137862	KM63TSSTC12084M	12,5	M12	21	24	84	10	56	58	0,80
4137873	KM63TSSTC12109M	12,5	M12	21	28	109	10	81	83	0,93
4137874	KM63TSSTC12134M	12,5	M12	21	31	134	10	106	108	1,07
4137875	KM63TSSTC16059M	17,0	M16	29	33	59	10	31	33	0,81
4137876	KM63TSSTC16084M	17,0	M16	29	33	84	10	56	58	0,95
4137877	KM63TSSTC16109M	17,0	M16	29	33	109	10	81	83	1,10
4137878	KM63TSSTC16134M	17,0	M16	29	33	134	10	106	108	1,24

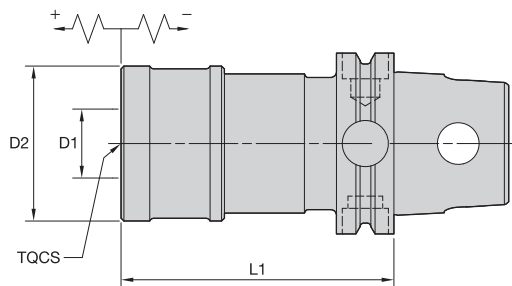
NOTE: For technical information, see page M96–M97.



DAI



order number	catalog number	D1	D2	L1	L9	clamp screw	wrench size actuation screw	Nm	kg
2256001	KM63TSDAI40100M	40	90	100	75	SS03M029	10 mm	160	3,54

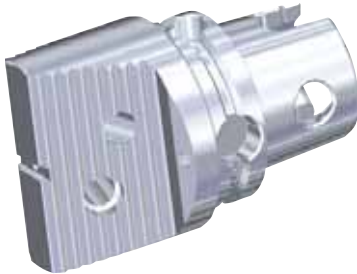
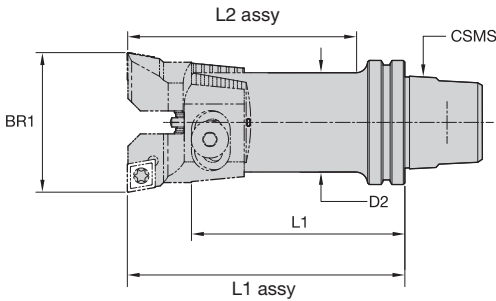


TC • Tension and Compression

order number	catalog number	TQCS adapter size	D1		D2		L1		kg	lbs
			mm	in	mm	in	mm	in		
1126271	KM63TSTC2095M	2	31	1.220	53	2.090	95	3.740	0,96	2.12
1126272	KM63TSTC3147M	3	48	1.890	78	3.070	147	5.790	1,97	4.34

NOTE: Quick-change tap adapters available and must be ordered separately; see page J76.

- Preset on tool setter.
- Blade set included.



■ RBHT • KM™ Rough-Boring Twin Cutters

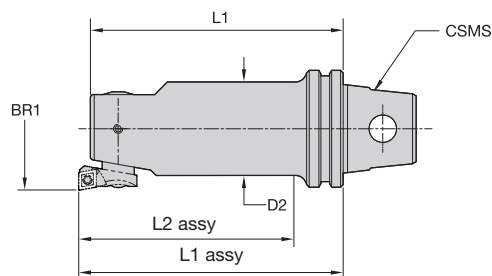


order number	catalog number	BR1 bore range		CSMS system size	D2		L1		L1 assy		L2 assy		blade screw	washer	pin
		mm	in		mm	in	mm	in	mm	in	mm	in			
3586545	KM63UTRBHT87	86,500-115,500	3.4055-4.5472	KM63UT	72,0	2.83	70,5	2.78	120,0	4.72	120,0	4.72	840.142.720	841.142.720	841.342.420
3586546	KM63UTRBHT115	114,500-153,000	4.5079-6.0236	KM63UT	94,0	3.70	83,2	3.28	150,0	5.91	150,0	5.91	840.142.940	841.142.940	841.342.420

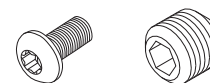
- 0,01mm (.0004") diameter adjustment.
- Insert holder included.



KM63TS Adapters



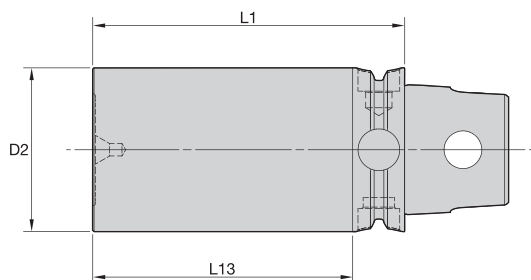
■ FBHS • KM™ Fine-Boring Single Cutter



order number	catalog number	BR1 bore range		CSMS system size	D2		L1		L1 assy		L2 assy		cartridge mounting screw	lock screw
		mm	in		mm	in	mm	in	mm	in	mm	in		
3586578	KM63UTFBHS87	86,900 - 154,100	3.4213 - 6.0669	KM63UT	72,0	2.83	115,0	4.53	120,0	4.72	120,0	4.72	880.252.550	881.252.720
3586579	KM63UTFBHS116	115,900 - 191,100	4.5630 - 7.5236	KM63UT	96,0	3.70	145,0	5.71	150,0	5.91	150,0	5.91	880.252.550	881.252.940

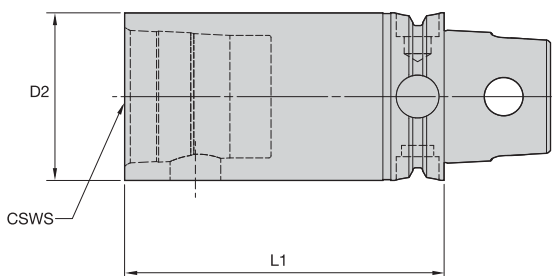
■ Reference Insert Cartridges

BR1		insert cartridges			
in	mm	90° lead		95° lead	
.9409 - 1.2244	23,900 - 31,100	R24FBHS06	—	R24FBHS06LF	—
1.1772 - 1.4606	29,900 - 37,100	R30FBHS06	—	—	—
1.2165 - 1.5787	30,900 - 40,100	R31FBHS06	—	R31FBHS06LF	—
1.4921 - 1.8543	37,900 - 47,100	F38FBHS06	—	—	—
1.5709 - 2.0118	39,900 - 51,100	R40FBHS06	—	R40FBHS06LF	—
1.8858 - 2.3268	47,900 - 59,100	R48FBHS06	—	—	—
2.0039 - 2.6417	50,900 - 67,100	R51FBHS06	—	R51FBHS06LF	—
2.5551 - 3.1929	64,900 - 81,100	R65FBHS06	—	—	—
2.6339 - 3.4291	66,900 - 87,100	R67FBHS06	R67FBHS09	—	R67FBHS09LF
3.3425 - 4.1378	84,900 - 105,100	R85FBHS06	R85FBHS09	—	—
3.4213 - 4.5709	86,900 - 116,100	R67FBHS06	R67FBHS09	—	R67FBHS09LF
4.1299 - 5.2795	104,900 - 134,100	R85FBHS06	R85FBHS09	—	—
4.5630 - 6.0669	115,900 - 154,100	R67FBHS06	R67FBHS09	—	R67FBHS09LF
5.2717 - 6.7362	133,900 - 171,100	R85FBHS06	R85FBHS09	—	—
6.0591 - 7.5236	153,900 - 191,100	—	R125FBHS09	—	—



■ GB • Gage Bar

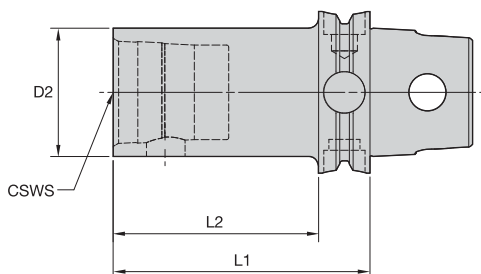
order number	catalog number	D2		L1		L13		kg	lbs
		mm	in	mm	in	mm	in		
1895373	KM63TSGB50350M	50	1.97	340	13.39	312	12.28	4,64	10.22
1144562	KM63TSGB63120M	63	2.48	120	4.72	100	3.94	3,05	6.72



■ S • KM™ Extension



order number	catalog number	CSWS system size	D2		L1		wrench size actuation screw	Nm	ft. lbs.	spare parts package	kg	lbs
			mm	in	mm	in						
2253808	KM63TSS63080M	KM63	63	2.480	80	3.150	12mm	47-54	35-40	KM63PKG3S	1,69	3.73
2397720	KM63TSS63120M	KM63	63	2.480	120	4.724	12mm	47-54	35-40	KM63PKG3S	2,63	5.81



■ S • KM Reducer



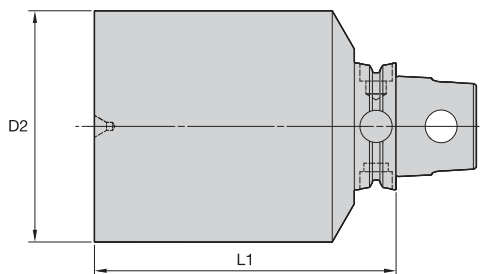
order number	catalog number	CSWS system size	D2		L1		L2		wrench size actuation screw		spare parts package	
			mm	in	mm	in	mm	in	Nm	ft. lbs.	kg	lbs
2397719	KM63TSS32070M	KM32	32	1.258	70	2.756	50	1.969	5mm	8-11	6-8	KM32PKG3S 0,90 1.97
2253907	KM63TSS40080M	KM40	40	1.573	80	3.150	60	2.362	6mm	12-16	9-12	KM40PKG3S 1,12 2.47
2253906	KM63TSS50100M	KM50	50	1.967	100	3.937	80	3.150	10mm	27-34	20-25	KM50PKG3S 1,63 3.58

■ S • KM Reducer • Centerline



order number	catalog number	CSWS system size	D2		L1		wrench size actuation screw		spare parts package	
			mm	in	mm	in	Nm	ft. lbs.	kg	lbs
3503748	KM63TSS50065M	KM50	50	1.967	65	2.559	10 mm	27-34	20-25	KM50PKG3L 1,37 3.02

NOTE: Designed for centerline KM cutting units.



■ BN • Blank

order number	catalog number	D2		L1		hardness range	kg	lbs
		mm	in	mm	in			
2397722	KM63TSBN65200M	65	2.559	200	7.874	32-38 HRC	5,30	11.68
2397721	KM63TSBN115150M	115	4.528	150	5.906	32-38 HRC	10,89	24.01

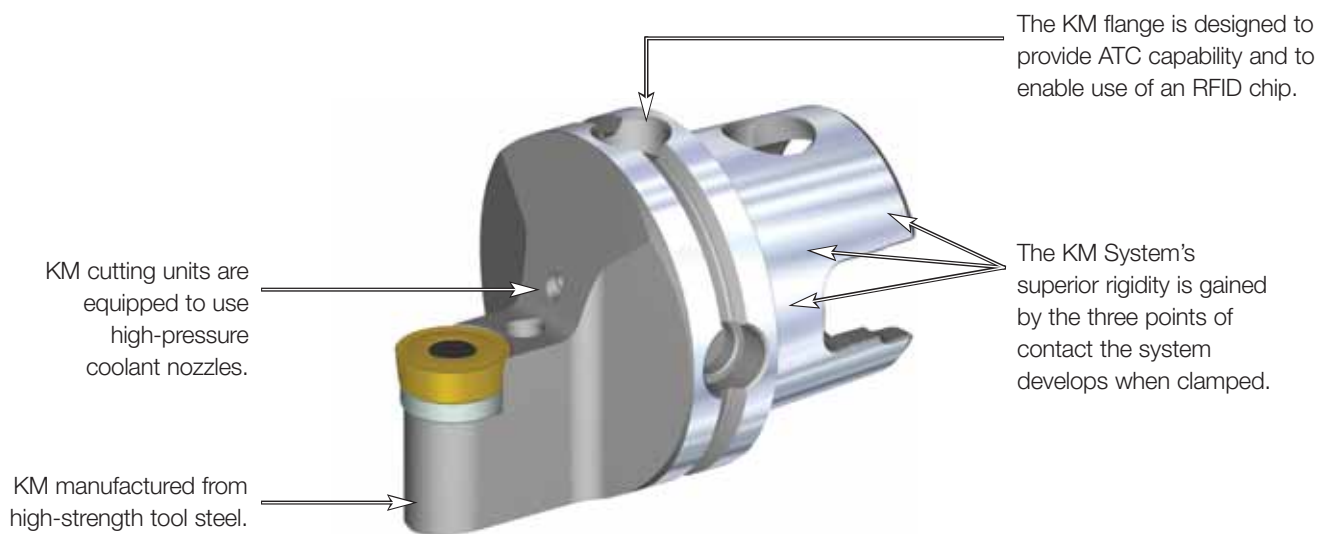
KM™ Quick Change Clamping System • KM80TS™ Series

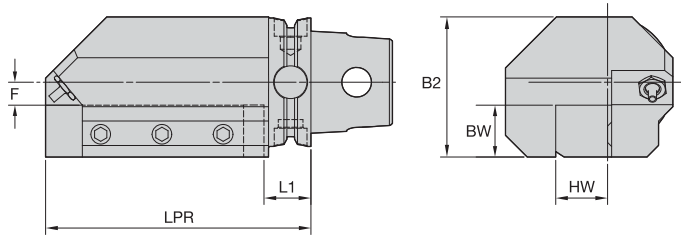
Primary Application

The KM Quick Change Clamping System is the best system on the market suitable for static, rotating, and multitasking operations. With its industry-leading design, the KM Quick Change System provides greater clamping forces than other quick-change systems. The KM Quick Change System gives you the flexibility to use KM on any application within your shop.

Features and Benefits

- KM is an ISO standard (ISO 26622).
- KM clamping units provide a 4:1 mechanical advantage.
- KM cutting units are capable of 100 bar (1,500 psi) coolant pressure.





■ STA • Metric

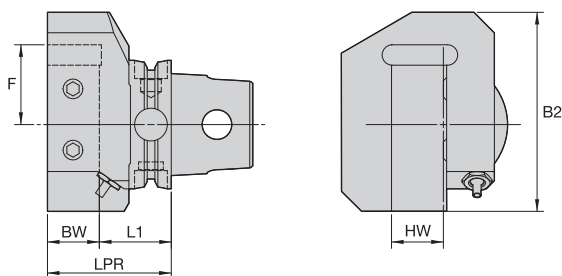
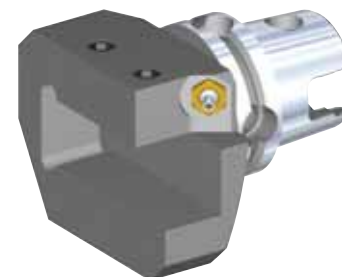


order number	catalog number	B2	BW	F	HW	L1	LPR	cup point socket set screw	nozzle	Nm	kg
	right hand										
3670073	KM80TSSTAR2525M	99	25	33	25	45	150	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	9,48
3670074	KM80TSSTAR3232M	98	32	25	32	45	150	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	8,95
	left hand										
3670059	KM80TSSTAL2525M	99	25	33	25	45	150	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	9,48
3670060	KM80TSSTAL3232M	98	32	25	32	45	150	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	8,95

■ STA • Inch



order number	catalog number	B2	BW	F	HW	L1	LPR	cup point socket set screw	nozzle	ft. lbs.	lbs
	right hand										
3670061	KM80TSSTAR20	3.904	1.250	1.059	1.250	1.693	5.906	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	20.70
3670062	KM80TSSTAR24	3.654	1.500	.559	1.500	1.480	6.693	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	21.37
	left hand										
3670057	KM80TSSTAL20	3.904	1.250	1.059	1.250	1.693	5.906	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	20.70
3670058	KM80TSSTAL24	3.654	1.500	.559	1.500	1.480	6.693	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	21.37



■ ETA • Metric

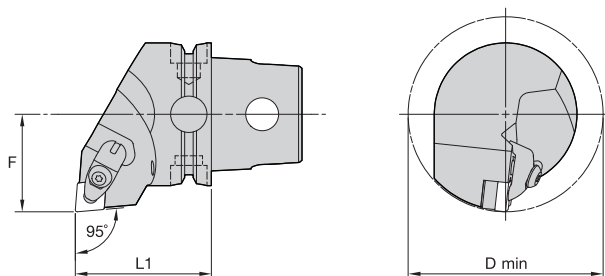


order number	catalog number	B2	BW	F	HW	L1	LPR	cup point socket set screw	nozzle	Nm	kg
right hand											
3670108	KM80TSETAR2525M	96	25	-37,5	25	48	73	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	3,51
3670109	KM80TSETAR3232M	111	32	-55,0	32	45	77	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	4,53
left hand											
3670103	KM80TSETAL2525M	96	25	-37,5	25	48	73	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	3,51
3670104	KM80TSETAL3232M	111	32	-55,0	32	45	77	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	4,53

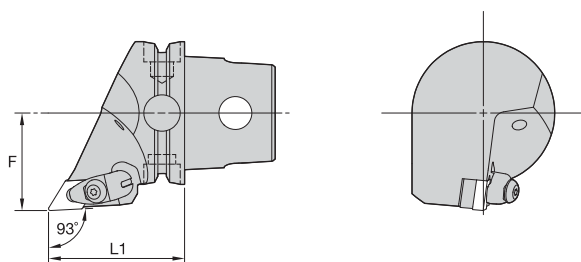
■ ETA • Inch



order number	catalog number	B2	BW	F	HW	L1	LPR	cup point socket set screw	nozzle	ft. lbs.	lbs
right hand											
3670105	KM80TSETAR16	3.780	1.000	-1.539	1.000	1.900	2.900	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	7.78
3670106	KM80TSETAR20	4.370	1.250	-2.244	1.250	1.846	3.096	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	10.28
3670107	KM80TSETAR24	4.370	1.500	-2.244	1.500	1.937	3.437	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	10.82
left hand											
3670078	KM80TSETAL16	3.780	1.000	-1.539	1.000	1.900	2.900	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	7.78
3670080	KM80TSETAL20	4.370	1.250	-2.244	1.250	1.846	3.096	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	10.28
3670082	KM80TSETAL24	4.370	1.500	-2.244	1.500	1.937	3.437	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	10.83

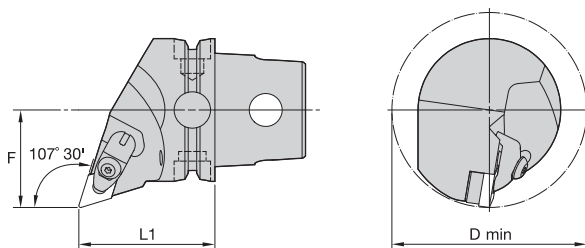

■ DCLN 95°

order number	catalog number	L1		F		D min		gage insert	shim	shim screw	pin	clamp assembly	kg
		mm	in	mm	in	mm	in						
right hand													
3636438	KM80TSDCLNR12KC04	70	2.756	53	2.087	106	4.173	CN..120408/CN..432	ICSN443	KMSP415IP	SSP025016M	CM234R ASSY	2,16
3636440	KM80TSDCLNR16KC06	70	2.756	53	2.087	106	4.173	CN..160612/CN..543	ICSN543	KMSP515IP	SSP025018M	CM209R ASSY	2,21
left hand													
3636439	KM80TSDCLNL12KC04	70	2.756	53	2.087	106	4.173	CN..120408/CN..432	ICSN443	KMSP415IP	SSP025016M	CM234R ASSY	2,16
3636441	KM80TSDCLNL16KC06	70	2.756	53	2.087	106	4.173	CN..160612/CN..543	ICSN543	KMSP515IP	SSP025018M	CM209R ASSY	2,21


■ DDJN 93°

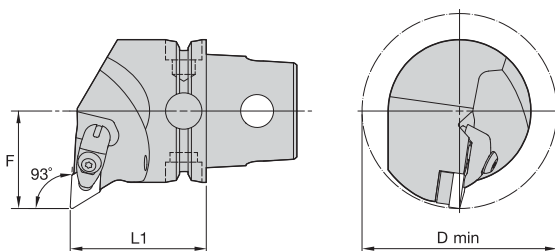
											
order number	catalog number	L1		F		gage insert	shim	shim screw	pin	clamp assembly	kg
		mm	in	mm	in						
3636525	KM80TSDDJNR15KC04	70	2.756	53	2.087	DN..150408/DN..432	IDSN443	KMSP415IP	SSP025016M	CM234R ASSY	1,92
3636442	KM80TSDDJNR15KC06	70	2.756	53	2.087	DN..150608/DN..442	IDSN433	KMSP415IP	SSP025016M	CM234R ASSY	1,92
3636526	KM80TSDDJNL15KC04	70	2.756	53	2.087	DN..150408/DN..432	IDSN443	KMSP415IP	SSP025016M	CM234R ASSY	1,92
3636523	KM80TSDDJNL15KC06	70	2.756	53	2.087	DN..150608/DN..442	IDSN433	KMSP415IP	SSP025016M	CM234R ASSY	1,92





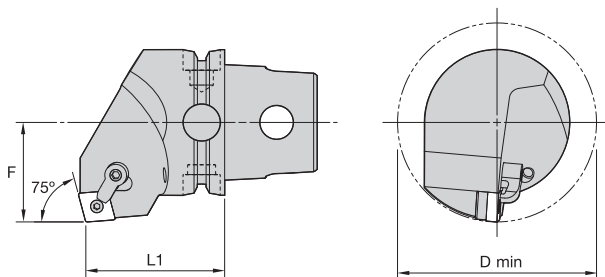
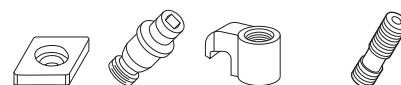
■ DDQN 107° 30'

													
order number	catalog number	L1		F		D min		gage insert	shim	shim screw	pin	clamp assembly	kg
		mm	in	mm	in	mm	in						
3636527	KM80TSDDQNR15KC04	70	2.756	53	2.087	106	4.173	DN..150408/DN..432	IDSN443	KMSP415IP	SSP025016M	CM234R ASSY	1,94
3636530	KM80TSDDQNR15KC06	70	2.756	53	2.087	106	4.173	DN..150608/DN..442	IDSN433	KMSP415IP	SSP025016M	CM234R ASSY	1,94
3636528	KM80TSDDQNL15KC04	70	2.756	53	2.087	106	4.173	DN..150408/DN..432	IDSN443	KMSP415IP	SSP025016M	CM234R ASSY	1,94
3636531	KM80TSDDQNL15KC06	70	2.756	53	2.087	106	4.173	DN..150608/DN..442	IDSN433	KMSP415IP	SSP025016M	CM234R ASSY	1,94

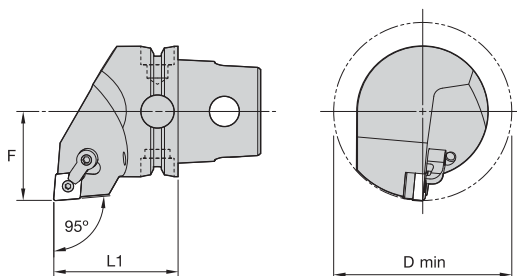


■ DDUN 93°

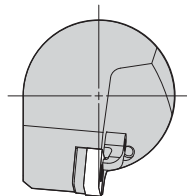
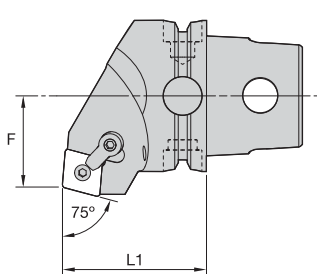
													
order number	catalog number	L1		F		D min		gage insert	shim	shim screw	pin	clamp assembly	kg
		mm	in	mm	in	mm	in						
	right hand												
3636533	KM80TSDDUNR15KC04	70	2.756	53	2.087	106	4.173	DN..150408/DN..432	IDSN443	KMSP415IP	SSP025016M	CM234R ASSY	2,08
3636537	KM80TSDDUNR15KC06	70	2.756	53	2.087	106	4.173	DN..150608/DN..442	IDSN433	KMSP415IP	SSP025016M	CM234R ASSY	2,08
	left hand												
3636535	KM80TSDDUNL15KC04	70	2.756	53	2.087	106	4.173	DN..150408/DN..432	IDSN443	KMSP415IP	SSP025016M	CM234R ASSY	2,08
3636538	KM80TSDDUNL15KC06	70	2.756	53	2.087	106	4.173	DN..150608/DN..442	IDSN433	KMSP415IP	SSP025016M	CM234R ASSY	2,08


MCKN 75°


order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
3662524	KM80TSMCKNR19	70	2.756	53	2.087	106	4.173	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,39	5.28
3662523	KM80TSMCKNL19	70	2.756	53	2.087	106	4.173	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,39	5.28


MCLN 95°

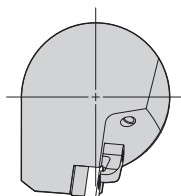
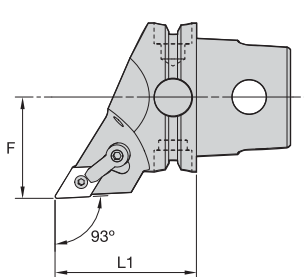

order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
right hand														
3662529	KM80TSMCLNR12	70	2.756	53	2.087	106	4.173	CN..120408/CN..432	ICSN432	KLM46	CKM20	STCM11	2,21	4.87
3662530	KM80TSMCLNR16	70	2.756	53	2.087	106	4.173	CN..160612/CN..543	ICSN533	KLM58	CKM20	STCM11	2,20	4.86
3662531	KM80TSMCLNR19	70	2.756	53	2.087	106	4.173	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,20	4.85
3662532	KM80TSMCLNR25	70	2.756	53	2.087	106	4.173	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,21	4.86
left hand														
3662525	KM80TSMCLNL12	70	2.756	53	2.087	106	4.173	CN..120408/CN..432	ICSN432	KLM46	CKM20	STCM11	2,21	4.87
3662526	KM80TSMCLNL16	70	2.756	53	2.087	106	4.173	CN..160612/CN..543	ICSN533	KLM58	CKM20	STCM11	2,20	4.86
3662527	KM80TSMCLNL19	70	2.756	53	2.087	106	4.173	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,20	4.85
3662528	KM80TSMCLNL25	70	2.756	53	2.087	106	4.173	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,21	4.86



■ MCRN 75°



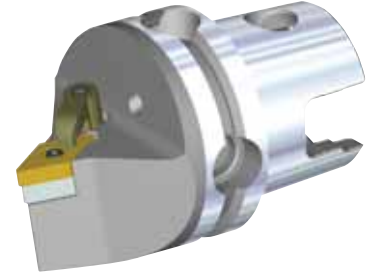
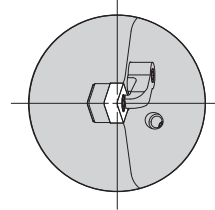
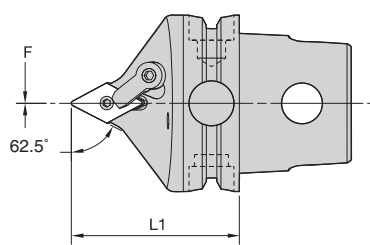
		L1		F								
order number	catalog number	mm	in	mm	in	gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
3662536	right hand KM80TSMCRNR16	70	2.756	48	1.890	CN..160612/CN..543	ICSN533	KLM58	CKM20	STCM11	2,27	5.00
3662537	KM80TSMCRNR19	70	2.756	48	1.890	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,26	4.99
3662538	KM80TSMCRNR25	70	2.756	48	1.890	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,25	4.97
3662533	left hand KM80TSMCRNL16	70	2.756	48	1.890	CN..160612/CN..543	ICSN533	KLM58	CKM20	STCM11	2,27	5.00
3662534	KM80TSMCRNL19	70	2.756	48	1.890	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,26	4.99
3662535	KM80TSMCRNL25	70	2.756	48	1.890	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,25	4.97



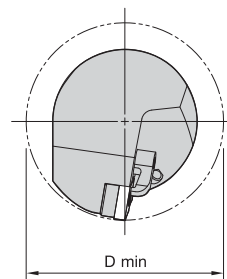
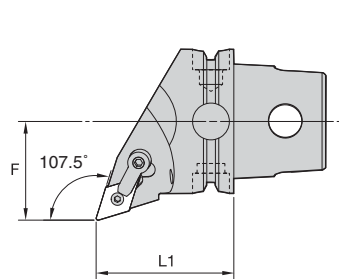
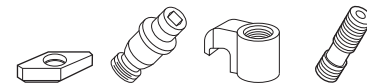
■ MDJN 93°



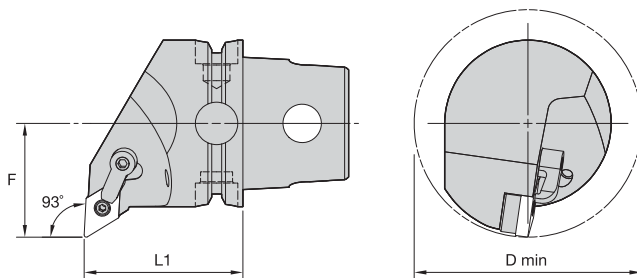
		L1		F								
order number	catalog number	mm	in	mm	in	gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
	right hand											
3662542	KM80TSMDJNR1504	70	2.756	53	2.087	DN..150408/DN.432	IDSN442	KLM46L	CKM23	STCM11	1,85	4.07
3662564	KM80TSMDJNR1506	70	2.756	53	2.087	DN..150608/DN.442	IDSN432	KLM46L	CKM23	STCM11	1,84	4.06
	left hand											
3662541	KM80TSMDJNL1504	70	2.756	53	2.087	DN..150408/DN.432	IDSN442	KLM46L	CKM23	STCM11	1,85	4.07
3662563	KM80TSMDJNL1506	70	2.756	53	2.087	DN..150608/DN.442	IDSN432	KLM46L	CKM23	STCM11	1,84	4.06


MDPN 62.5°

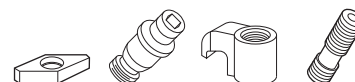

order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
3662565	KM80TSM DPNN1504	70	2.756	0	.000	DN..150408/DN.432	IDSN442	KLM46L	CKM23	STCM11	1,73	3.81
3662566	KM80TSM DPNN1506	70	2.756	0	.000	DN..150608/DN.442	IDSN432	KLM46L	CKM23	STCM11	1,72	3.80


MDQN 107.5°


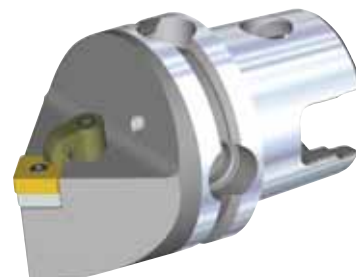
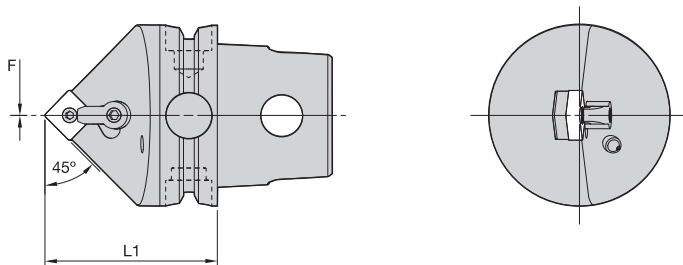
order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
3662568	KM80TSM DQNR1504	70	2.756	53	2.087	106	4.173	DN..150408/DN.432	IDSN442	KLM46L	CKM23	STCM11	2,01	4.44
3662570	KM80TSM DQNR1506	70	2.756	53	2.087	106	4.173	DN..150608/DN.442	IDSN432	KLM46L	CKM23	STCM11	2,01	4.43
3662567	KM80TSM DQNL1504	70	2.756	53	2.087	106	4.173	DN..150408/DN.432	IDSN442	KLM46L	CKM23	STCM11	2,01	4.44
3662569	KM80TSM DQNL1506	70	2.756	53	2.087	106	4.173	DN..150608/DN.442	IDSN432	KLM46L	CKM23	STCM11	2,01	4.43



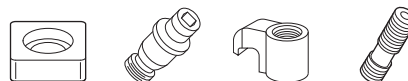
■ MDUN 93°



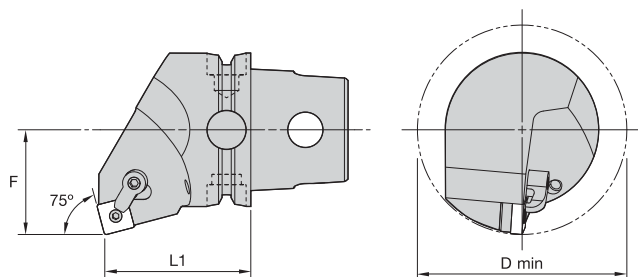
order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
	right hand													
3662572	KM80TSM DUNR1504	70	2.756	53	2.087	106	4.173	DN..150408/DN.432	IDSN442	KLM46L	CKM23	STCM11	2,28	5.02
3662574	KM80TSM DUNR1506	70	2.756	53	2.087	106	4.173	DN..150608/DN.442	IDSN432	KLM46L	CKM23	STCM11	2,27	5.01
	left hand													
3662571	KM80TSM DUNL1504	70	2.756	53	2.087	106	4.173	DN..150408/DN.432	IDSN442	KLM46L	CKM23	STCM11	2,27	5.02
3662573	KM80TSM DUNL1506	70	2.756	53	2.087	106	4.173	DN..150608/DN.442	IDSN432	KLM46L	CKM23	STCM11	2,27	5.01



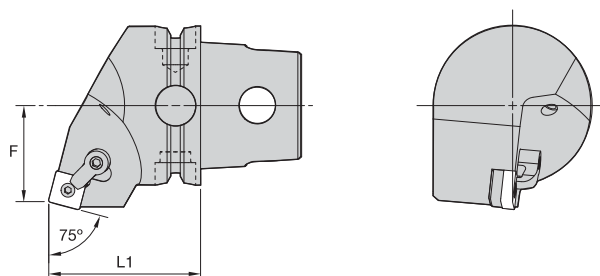
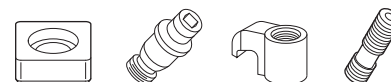
■ MSDN 45°



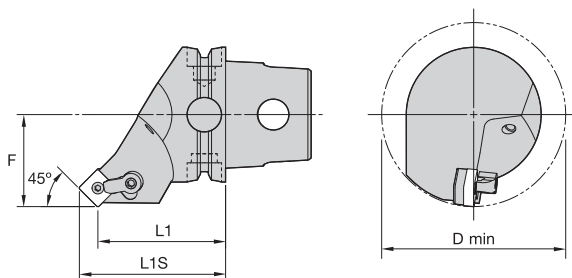
order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
3662577	KM80TSM SDNN19	70	2.756	0	.000	SN..190512/SN.643	ISSN633	KLM68	CKM12	STCM4	1,85	4.08
3662578	KM80TSM SDNN25	70	2.756	0	.000	SN..250924/SN.866	ISSN846	KLM810	CKM24	STCM19	1,76	3.88


■ MSKN 75°

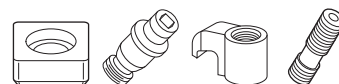

order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
	right hand													
3662581	KM80TSMKSNR19	70	2.756	53	2.087	106	4.17	SN..190512/SN.643	ISSN633	KLM68	CKM12	STCM4	2,37	5.23
3662582	KM80TSMKSNR25	70	2.756	53	2.087	106	4.17	SN..250924/SN..866	ISSN846	KLM810	CKM24	STCM19	2,47	5.45
	left hand													
3662579	KM80TSMKSNL19	70	2.756	53	2.087	106	4.17	SN..190512/SN.643	ISSN633	KLM68	CKM12	STCM4	2,37	5.23
3662580	KM80TSMKSNL25	70	2.756	53	2.087	106	4.17	SN..250924/SN..866	ISSN846	KLM810	CKM24	STCM19	2,47	5.45


■ MSRN 75°


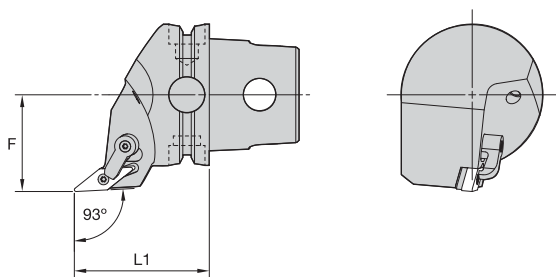
order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
	right hand											
3662585	KM80TMSRNR19	70	2.756	48	1.890	SN..190512/SN.643	ISSN633	KLM68	CKM12	STCM4	2,12	4.67
3662586	KM80TMSRNR25	70	2.756	48	1.890	SN..250924/SN.866	ISSN846	KLM810	CKM24	STCM19	2,19	4.82
	left hand											
3662583	KM80TMSRNL19	70	2.756	48	1.890	SN..190512/SN.643	ISSN633	KLM68	CKM12	STCM4	2,12	4.67
3662584	KM80TMSRNL25	70	2.756	48	1.890	SN..250924/SN.866	ISSN846	KLM810	CKM24	STCM19	2,19	4.82



■ MSSN 45°



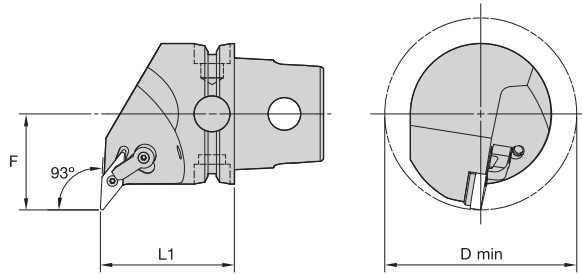
order number	catalog number	L1		L1S		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in	mm	in							
3662588	right hand KM80TSMSSNR25	70	2.756	86	3.386	53	2.09	150	5.906	SN..250924/SN.866	ISSN846	KLM810	CKM24	STCM19	2,18	4.81
3662587	left hand KM80TSMSSNL25	70	2.756	86	3.386	53	2.09	150	5.906	SN..250924/SN.866	ISSN846	KLM810	CKM24	STCM19	2,18	4.81



■ MVJN 93°



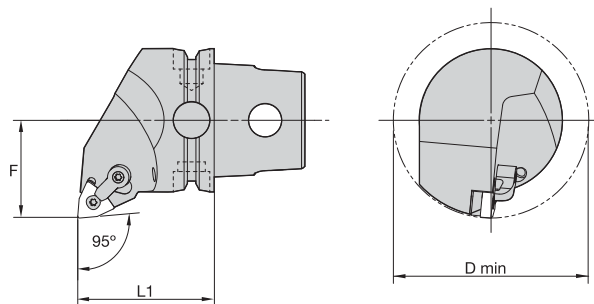
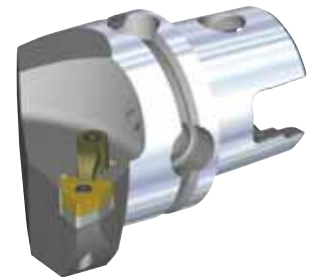
order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
3662562	right hand KM80TSMVJNR16	70	2.756	53	2.087	VN..160408/VN.332	IVSN322	KLM34L	CKM23	STCM11	1,79	3.94
3662561	left hand KM80TSMVJNL16	70	2.756	53	2.087	VN..160408/VN.332	IVSN322	KLM34L	CKM23	STCM11	1,79	3.94



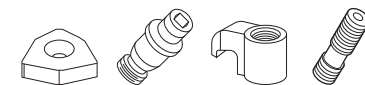
■ MVUN 93°



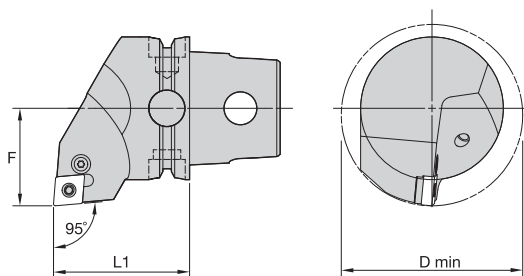
order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
3662594	right hand KM80TSMVUNR16	70	2.756	53	2.087	106	4.173	VN..160408/VN.332	IVSN322	KLM34L	CKM23	STCM11	2,11	4.64
3662593	left hand KM80TSMVUNL16	70	2.756	53	2.087	106	4.173	VN..160408/VN.332	IVSN322	KLM34L	CKM23	STCM11	2,11	4.64



■ MWLN 95°



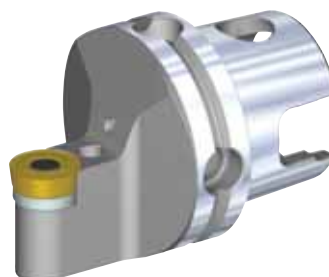
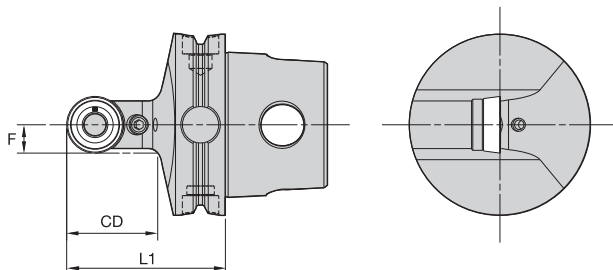
order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
3662596	right hand KM80TSMWLNRO8	70	2.756	53	2.087	106	4.173	WN..080408/WN.432	IWSN433	KLM46	CKM20	STCM11	2,15	4.74
3662595	left hand KM80TSMWLNLO8	70	2.756	53	2.087	106	4.173	WN..080408/WN.432	IWSN433	KLM46	CKM20	STCM11	2,15	4.74



■ PCLN 90°



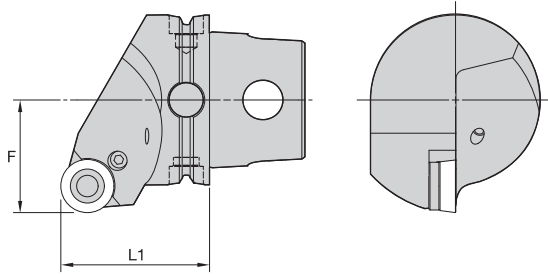
order number	catalog number	L1		F		D min		gage insert	shim	lever lock screw	shim pin	toggle lever	punch	kg	lbs
		mm	in	mm	in	mm	in								
right hand															
3662602	KM80TSPCLNR12	70	2.756	53	2.087	100	3.937	CN..120408/CN..432	512.112	514.123	513.023	511.023	515.018	2,19	4.82
3662603	KM80TSPCLNR16	70	2.756	53	2.087	100	3.937	CN..160612/CN..543	512.117	514.125	513.025	511.025	515.022	2,18	4.81
3662604	KM80TSPCLNR19	70	2.756	53	2.087	100	3.937	CN..190612/CN..643	512.123	514.133	513.033	511.033	515.022	2,17	4.79
3662605	KM80TSPCLNR25	70	2.756	53	2.087	100	3.937	CN..250924/CN..866	512.024	12148562500	513.038	511.038	515.028	2,15	4.74
left hand															
3662598	KM80TSPCLNL12	70	2.756	53	2.087	100	3.937	CN..120408/CN..432	512.112	514.123	513.023	511.023	515.018	2,19	4.82
3662599	KM80TSPCLNL16	70	2.756	53	2.087	100	3.937	CN..160612/CN..543	512.117	514.125	513.025	511.025	515.022	2,18	4.81
3662600	KM80TSPCLNL19	70	2.756	53	2.087	100	3.937	CN..190612/CN..643	512.123	514.133	513.033	511.033	515.022	2,17	4.79
3662601	KM80TSPCLNL25	70	2.756	53	2.087	100	3.937	CN..250924/CN..866	512.024	12148562500	513.038	511.038	515.028	2,15	4.74



■ PRDC 90°

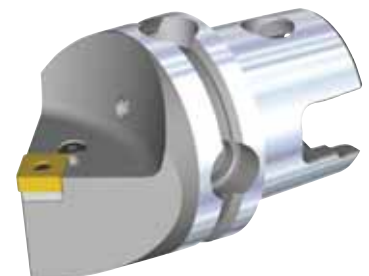
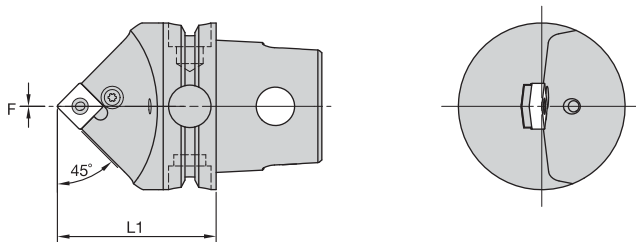


order number	catalog number	L1		F		CD		gage insert	shim	clamp screw	clamp stud	kg	lbs
		mm	in	mm	in	mm	in						
left hand													
3662606	KM80TSPRDCN20	70	2.756	10	.394	40	1.581	RCMT2006M0	169.333	121.820	119.073	1,48	3.26
3662607	KM80TSPRDCN25	70	2.756	13	.492	40	1.581	RCMX2507M0RP	169.337	121.820	118.404	1,55	3.42



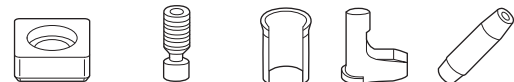
■ PRGC 0°

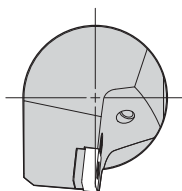
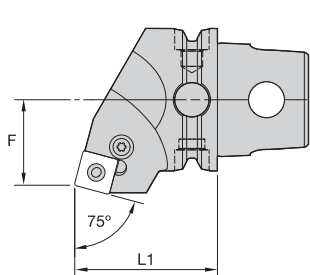
order number	catalog number	L1		F		gage insert	shim	clamp screw	clamp stud	kg	lbs
		mm	in	mm	in						
3662625	right hand KM80TSPRGCR25	70	2.756	53	2.087	RC..2507M0	169.337	121.820	118.404	2,02	4.46
3662626	KM80TSPRGCR32 left hand	80	3.150	53	2.087	RC..320900	169.339	121.030	118.604	2,63	5.79
3662623	KM80TSPRGCL25	70	2.756	53	2.087	RC..2507M0	169.337	121.820	118.404	2,02	4.45
3662624	KM80TSPRGCL32	80	3.150	53	2.087	RC..320900	169.339	121.030	118.604	2,63	5.79



■ PSDN 45°

order number	catalog number	L1		F		gage insert	shim	lever lock screw	shim pin	toggle lever	punch	kg	lbs
		mm	in	mm	in								
left hand													
3662627	KM80TSPSDNN19	70	2.756	0	.000	SN..190612/SN..643	512.083	514.133	513.033	511.033	515.022	1,76	3.87
3662628	KM80TSPSDNN25	70	2.756	0	.000	SN..250724/SN..856	512.092	514.138	513.038	511.038	515.028	1,75	3.85

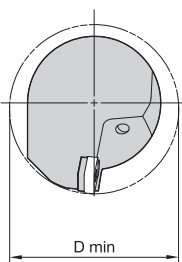
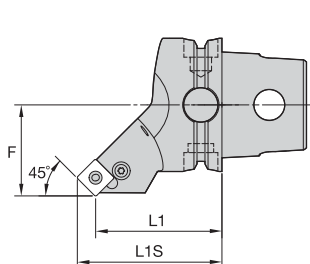




■ PSRN 75°



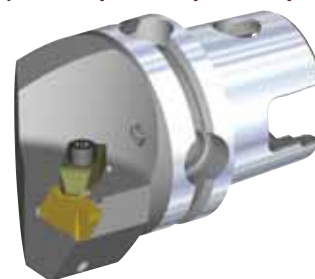
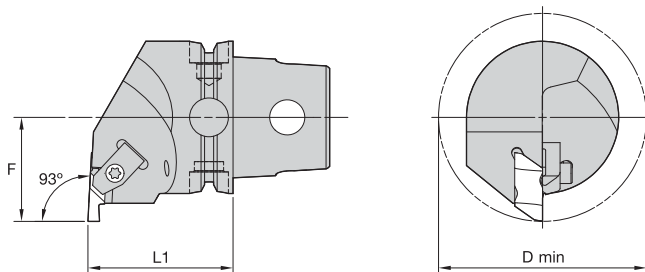
order number	catalog number	L1		F		gage insert	shim	lever lock screw	shim pin	toggle lever	punch	kg	lbs
		mm	in	mm	in								
3662631	KM80TSPSRNR19	70	2.756	48	1.890	SN..190612/SN..643	512.083	514.133	513.033	511.033	515.022	2,11	4.66
3662632	KM80TSPSRNR25	70	2.756	48	1.890	SN..250724/SN..-856	512.092	514.138	513.038	511.038	515.028	2,13	4.69
3662629	KM80TSPSRNL19	70	2.756	48	1.890	SN..190612/SN..643	512.083	514.133	513.033	511.033	515.022	2,07	4.56
3662630	KM80TSPSRNL25	70	2.756	48	1.890	SN..250724/SN..-856	512.092	514.138	513.038	511.038	515.028	2,13	4.69



■ PSSN 45°

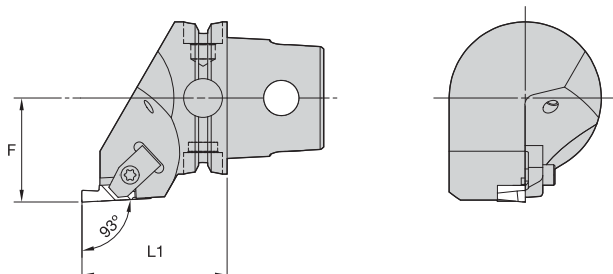


order number	catalog number	L1		L1S		F		D min		gage insert	shim	lever lock screw	shim pin	toggle lever	punch	kg	lbs
		mm	in	mm	in	mm	in	mm	in								
	right hand																
3662636	KM80TSPSSNR19	70	2.756	82,49	3.248	53	2.087	100	3.94	SN..190612/SN..643	512.083	514.133	513.033	511.033	515.022	2,00	4.41
3662637	KM80TSPSSNR25	70	2.756	85,98	3.385	53	2.087	150	5.91	SN..250724/SN..856	512.092	514.138	513.038	511.038	515.028	2,13	4.70
	left hand																
3662633	KM80TSPSSNL19	70	2.756	82,49	3.248	53	2.087	100	3.94	SN..190612/SN..643	512.083	514.133	513.033	511.033	515.022	1,94	4.29
3662634	KM80TSPSSNL25	70	2.756	86,00	3.386	53	2.087	150	5.91	SN..250724/SN..856	512.092	514.138	513.038	511.038	515.028	2,09	4.61



■ NE 93° • Metric

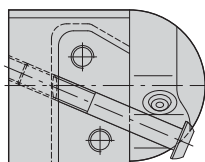
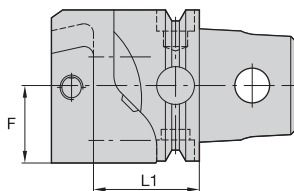
order number	catalog number	L1		F		D min		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in					
3665054	right hand KM80TSNER3	70	2.756	53	2.087	106	4.173	NG3L	CM73	MS1489	2,14	4.72
3665056	KM80TSNER4	70	2.756	53	2.087	106	4.173	NG4L	CM73	MS1489	2,18	4.81
3665058	KM80TSNER5	70	2.756	53	2.087	106	4.173	NG5L	CM81	MS1490	2,28	5.02
3665060	KM80TSNER6 left hand	70	2.756	53	2.087	106	4.173	NG6L	CM121	MS1489	2,28	5.02
3665053	KM80TSNEL3	70	2.756	53	2.087	106	4.173	NG3R	CM72	MS1489	2,14	4.72
3665055	KM80TSNEL4	70	2.756	53	2.087	106	4.173	NG4R	CM72	MS1489	2,18	4.81
3665057	KM80TSNEL5	70	2.756	53	2.087	106	4.173	NG5R	CM80	MS1490	2,28	5.02
3665059	KM80TSNEL6	70	2.756	53	2.087	106	4.173	NG6R	CM120	MS1489	2,18	4.80



■ NS 93° • Metric

order number	catalog number	L1		F		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in					
3668864	right hand KM80TSNSR3	70	2.756	53	2.087	NG3R	CM72	MS1489	1,96	4.32
3668866	KM80TSNSR4	70	2.756	53	2.087	NG4R	CM72	MS1489	1,94	4.28
3668868	KM80TSNSR5	80	3.150	53	2.087	NG5R	CM80	MS1490	2,25	4.95
3668863	left hand KM80TSNSL3	70	2.756	53	2.086	NG3L	CM73	MS1489	1,96	4.32
3668865	KM80TSNSL4	70	2.756	53	2.087	NG4L	CM73	MS1489	1,97	4.35
3668867	KM80TSNSL5	80	3.150	53	2.087	NG5L	CM81	MS1490	2,27	5.01

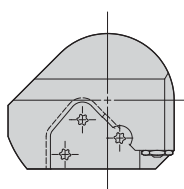
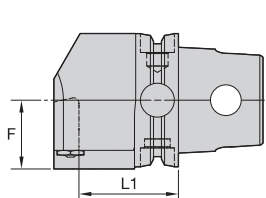




■ KGME • End Mount

order number	catalog number	L1		F		cartridge size	blade screw	nozzle	clamp screw	kg
		mm	in	mm	in					
3670369	right hand KM80TSKGMER50	58	2.28	40,5	1.594	50	MS1162	PMT04525	MS2002	2,51
3670367	left hand KM80TSKMEL50	58	2.28	40,5	1.594	50	MS1162	PMT04525	MS2002	2,49

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use left-hand blades.



■ KGME • End Mount

order number	catalog number	L1		F		cartridge size	blade screw	nozzle	kg
		mm	in	mm	in				
3670370	right hand KM80TSKGMER65	57	2.24	40,5	1.594	65	MS1163	PMT04525	3,17
3670368	left hand KM80TSKMEL65	57	2.24	40,5	1.594	65	MS1163	PMT04525	3,17

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use left-hand blades.



Increased Efficiency

Automatic adjustment with Romicron™ Closed Loop Boring (CLB)

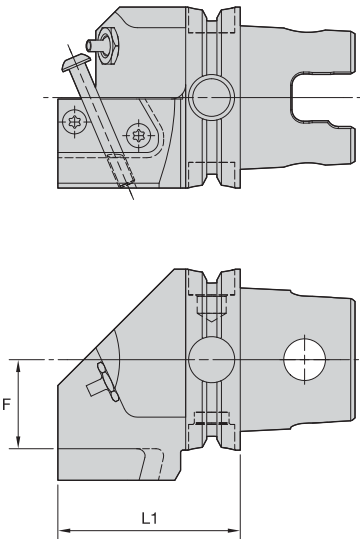
- Reduce scrap rates and setup time due to backlash-free adjustment.
- Make use of the entire tool life of used inserts as diameter adjustment can be done inside of the machine, avoiding routine insert changes in the setup room.
- Avoid time-consuming control cuts or sister tooling.
- No additional training or experience needed, resulting in less stress during adjustments.



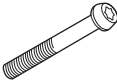
Visit www.kennametal.com or contact your local Authorized Kennametal Distributor.

www.kennametal.com





■ **KGMS • Side Mount**

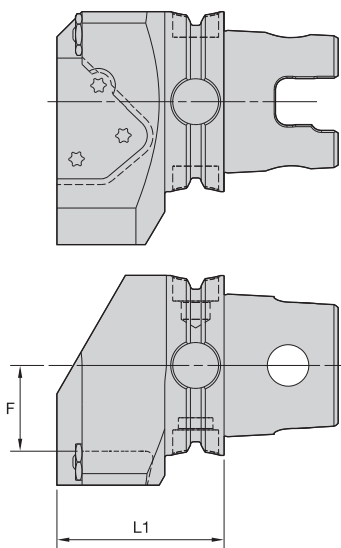


order number	catalog number	L1		F		cartridge size	blade screw	clamp screw	nozzle	kg
		mm	in	mm	in					
3670383	right hand	66,5	2.618	41	1.614	50	MS1162	MS2002	PMT04525	2,43
	KM80TSKGMSR50									
3670371	left hand	66,5	2.618	41	1.614	50	MS1162	MS2002	PMT04525	2,18
	KM80TSKGMSL50									

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
 Right-hand cutting units use right-hand blades.

(continued)

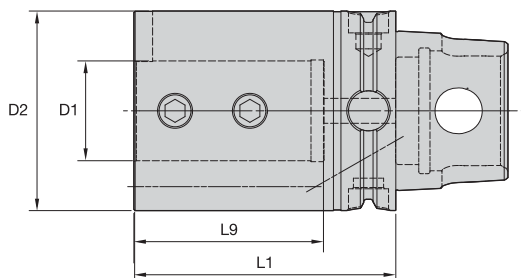
(KGMS • Side Mount continued)



■ **KGMS • Side Mount**

order number	catalog number	L1		F		cartridge size	 blade screw	 nozzle	kg
		mm	in	mm	in				
3670384	right hand	63,5	2.500	40	1.575	65	MS1163	PMT04525	2,88
	KM80TSKGMSR65								
3670372	left hand	63,5	2.500	40	1.575	65	MS1163	PMT04525	2,88
	KM80TSKGMSL65								

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use right-hand blades.



■ BA • Metric

order number	catalog number	D1	D2	L1	L9	clamp screw	nozzle	wrench size clamp screw	Nm	kg
3670392	KM80TSBA25075M	25	65	75	58	MS1561	PWZ1012	5mm	35	2,23
3670423	KM80TSBA32075M	32	72	75	63	190.228	PWZ1012	—	55	2,36
3670424	KM80TSBA40105M	40	80	105	76	MS1947	PWZ1012	8mm	125	3,55



■ BA • Inch

order number	catalog number	D1	D2	L1	L9	clamp screw	nozzle	wrench size clamp screw	ft. lbs.	lbs
3670350	KM80TSBA100276	1	2.559	2.756	2.244	MS1561	PWZ1012	5mm	25	4.63
3670351	KM80TSBA125295	1 1/4	2.835	2.953	2.480	MS1561	PWZ1012	5mm	25	5.21
3670352	KM80TSBA150413	1 1/2	3.150	4.134	2.953	MS1947	PWZ1012	8mm	90	7.99
3670363	KM80TSBA200512	2	3.543	5.118	3.976	MS1947	PWZ1012	8mm	90	10.56



NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.
For boring bar reducers, see page A570.

The image shows various components of the Romicron Boring System, including a large white boring head, a smaller white tool holder, and several silver-colored boring bars of different sizes. They are arranged on a yellow rectangular surface against a background of a black and white checkered pattern.

RomicronTM Boring System

Fast

Adjustments can be made in less than 5 seconds, while still holding 0,002mm (.0001") on the diameter!

Accurate

Each click of the dial is 0,001mm (.000040") on the radius and can be done in less than 5 seconds.

This high-performance boring system will give you:

- More uptime.
- Less scrap.
- Longer tool life.
- CPKs greater than 1.33.
- Less stress during adjustments.

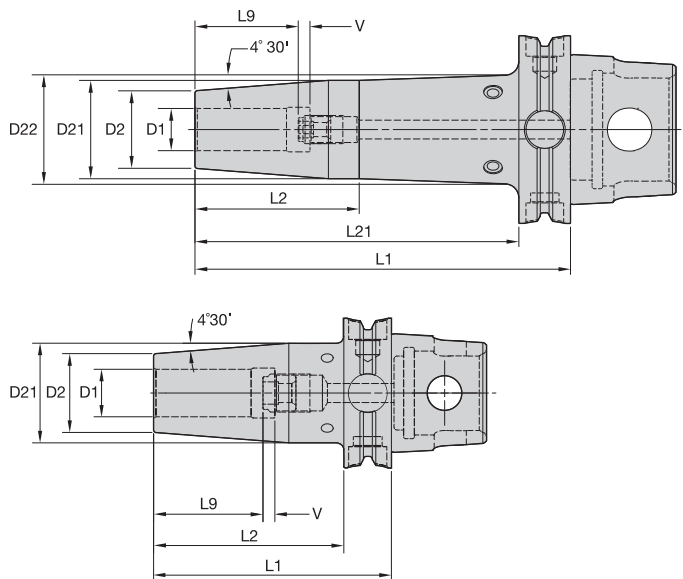
NOTE: For Romicron boring systems, see the Kennametal Innovations Master Catalog Cutting Tools 2013.

Experience the advantages at your Authorized Kennametal Distributor or at www.kennametal.com.

www.kennametal.com

 **KENNAMETAL[®]**

- 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	
10	h6	0,000/-0,009
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32, 40, & 50	h6	0,000/-0,016



■ HPV TT • Metric



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	kg	lbs
3681408	KM80TSHPVTT10090M	10	24	32	—	90	68	—	31	10	TTSS08014M	4mm	1,44	3.16
3681409	KM80TSHPVTT10170M	10	24	32	38	170	63	148	31	10	TTSS08014M	4mm	2,03	4.48
3681410	KM80TSHPVTT12095M	12	24	32	—	95	73	—	36	10	TTSS10014M	5mm	1,45	3.19
3681411	KM80TSHPVTT12160M	12	24	32	37	160	63	138	36	10	TTSS10014M	5mm	1,93	4.26
3681412	KM80TSHPVTT14095M	14	27	34	—	95	73	—	36	10	TTSS10014M	5mm	1,51	3.32
3682733	KM80TSHPVTT16100M	16	27	34	—	100	78	—	39	10	TTSS12014M	6mm	1,51	3.34
3682734	KM80TSHPVTT18100M	18	33	42	—	100	78	—	39	10	TTSS12014M	6mm	1,72	3.80
3682735	KM80TSHPVTT18160M	18	33	42	47	160	70	138	39	10	TTSS12014M	6mm	2,44	5.37
3682736	KM80TSHPVTT20105M	20	33	42	—	105	83	—	41	10	TTSS16014M	8mm	1,74	3.83
3682737	KM80TSHPVTT25115M	25	44	53	—	115	93	—	47	10	TTSS16014M	8mm	2,31	5.09
3682738	KM80TSHPVTT32120M	32	44	53	—	120	98	—	51	10	TTSS16014M	8mm	2,23	4.91
3682739	KM80TSHPVTT40130M	40	60	70	—	130	108	—	51	10	TTSS20014M	10mm	3,42	7.55
3682740	KM80TSHPVTT50140M	50	69	79	—	140	118	—	56	10	TTSS20014M	10mm	4,23	9.34

(continued)

(HPV TT continued)

Cutting Tool Shank Requirements inch (industry standard)

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

■ HPV TT • Inch



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	kg	lbs
3683469	KM80TSHPVTT031335	5/16	.827	1.059	—	3.346	2.480	—	1.024	.394	TTSS06014M	3mm	1,34	2.96
3683470	KM80TSHPVTT038630	3/8	.945	1.256	1.462	6.299	2.480	5.433	1.220	.394	TTSS08014M	4mm	1,95	4.30
3683471	KM80TSHPVTT044374	7/16	.945	1.256	—	3.740	2.874	—	1.417	.394	TTSS10014M	5mm	1,45	3.21
3683038	KM80TSHPVTT050374	1/2	.945	1.256	—	3.740	2.874	—	1.417	.394	TTSS10014M	5mm	1,44	3.18
3683039	KM80TSHPVTT056374	9/16	1.063	1.335	—	3.740	2.874	—	1.417	.394	TTSS10014M	5mm	1,50	3.31
3683040	KM80TSHPVTT062394	5/8	1.063	1.335	—	3.937	3.071	—	1.535	.394	TTSS12014M	6mm	1,52	3.34
3683041	KM80TSHPVTT062850	5/8	1.063	1.335	1.695	8.500	2.480	7.638	1.535	.394	TTSS12014M	6mm	2,56	5.65
3683042	KM80TSHPVTT075413	3/4	1.299	1.650	—	4.134	3.267	—	1.614	.394	TTSS16014M	8mm	1,75	3.86
3683463	KM80TSHPVTT075630	3/4	1.299	1.650	1.837	6.299	2.756	5.433	1.614	.394	TTSS16014M	8mm	2,40	5.28
3683464	KM80TSHPVTT088413	7/8	1.299	1.650	—	4.134	3.268	—	1.614	.394	TTSS16014M	8mm	1,71	3.77
3683465	KM80TSHPVTT100453	1	1.732	2.083	—	4.528	3.662	—	1.850	.394	TTSS16014M	8mm	2,30	5.07
3683466	KM80TSHPVTT125472	1 1/4	1.732	2.083	—	4.724	3.858	—	2.008	.394	TTSS16014M	8mm	2,23	4.92
3683467	KM80TSHPVTT150512	1 1/2	2.362	2.752	—	5.118	4.252	—	2.008	.394	TTSS20014M	10mm	3,49	7.70
3683468	KM80TSHPVTT200551	2	2.717	3.106	—	5.512	4.646	—	2.205	.394	TTSS20014M	10mm	4,22	9.30

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.

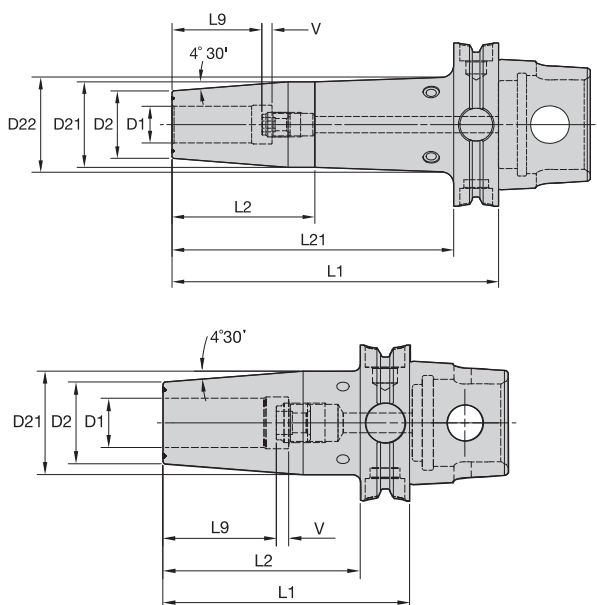
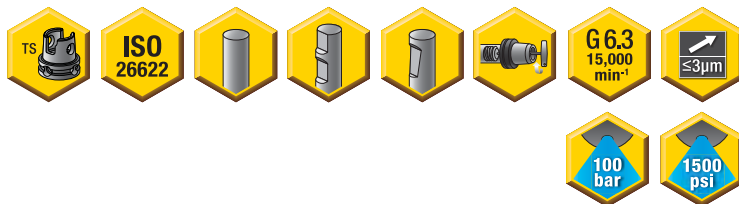
Adjusting stop screw gage, see page M81.

Shrink Fit accessories, see page L12–L13.

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

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

- 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

■ HPV TT HT • Metric



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	kg	lbs
3682747	KM80TSHPVTTHT12095M	12	24	32	—	95	73	—	36	10	TTSS10014M	5mm	1,45	3.19
3682748	KM80TSHPVTTHT12160M	12	24	32	37	160	63	138	36	10	TTSS10014M	5mm	1,92	4.22
3682749	KM80TSHPVTTHT14095M	14	27	34	—	95	73	—	36	10	TTSS10014M	5mm	1,51	3.32
3682750	KM80TSHPVTTHT16100M	16	27	34	—	100	78	—	39	10	TTSS12014M	6mm	1,51	3.34
3682751	KM80TSHPVTTHT18100M	18	33	42	—	100	78	—	39	10	TTSS12014M	6mm	1,72	3.80
3682752	KM80TSHPVTTHT18160M	18	33	42	47	160	70	138	39	10	TTSS12014M	6mm	2,44	5.37
3682773	KM80TSHPVTTHT20105M	20	33	42	—	105	83	—	41	10	TTSS16014M	8mm	1,74	3.83
3682774	KM80TSHPVTTHT25115M	25	44	53	—	115	93	—	47	10	TTSS16014M	8mm	2,31	5.09
3682775	KM80TSHPVTTHT32120M	32	44	53	—	120	98	—	51	10	TTSS16014M	8mm	2,23	4.91

(continued)

(HPV TT HT continued)

Cutting Tool Shank Requirements inch (industry standard)

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

■ HPV TT HT • Inch



order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	stop screw	wrench size stop screw	kg	lbs
3684074	KM80TSHPVTTHT050374	1/2	.945	1.256	—	3.740	2.874	—	1.417	.394	TTSS10014M	5mm	1,44	3.18
3684075	KM80TSHPVTTHT056374	9/16	1.063	1.335	—	3.740	2.874	—	1.417	.394	TTSS10014M	5mm	1,50	3.31
3684076	KM80TSHPVTTHT062394	5/8	1.063	1.335	—	3.937	3.071	—	1.535	.394	TTSS12014M	6mm	1,52	3.34
3684077	KM80TSHPVTTHT062850	5/8	1.063	1.335	1.695	8.500	2.480	7.638	1.535	.394	TTSS12014M	6mm	2,56	5.65
3684078	KM80TSHPVTTHT075413	3/4	1.299	1.650	—	4.134	3.268	—	1.614	.394	TTSS16014M	8mm	1,75	3.86
3684079	KM80TSHPVTTHT075630	3/4	1.299	1.650	1.837	6.299	2.756	5.433	1.614	.394	TTSS16014M	8mm	2,41	5.32
3684080	KM80TSHPVTTHT088413	7/8	1.299	1.650	—	4.134	3.268	—	1.614	.394	TTSS16014M	8mm	1,71	3.77
3684081	KM80TSHPVTTHT100453	1	1.732	2.083	—	4.528	3.662	—	1.850	.394	TTSS16014M	8mm	2,30	5.07
3684082	KM80TSHPVTTHT125472	1 1/4	1.732	2.083	—	4.724	3.858	—	2.008	.394	TTSS16014M	8mm	2,23	4.92

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

Shrink Fit technical section, see page M78.

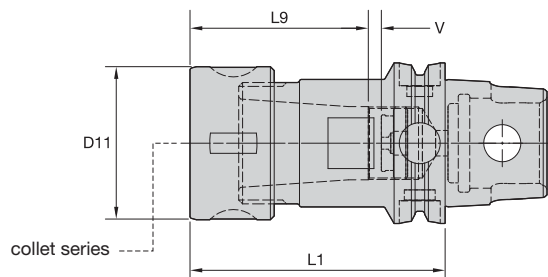
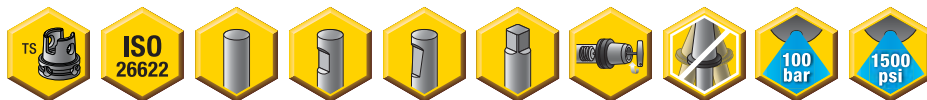
Supplied with stop screw.

Adjusting stop screw gage, see page M81.

Shrink Fit accessories, see page L12–L13.

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

- 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

■ TG

order number	catalog number	collet series	D11		L1		L9		V		kg	lbs
			mm	in	mm	in	mm	in	mm	in		
3670114	KM80TSTG075160M	TG75	50	1.969	160	6.299	53	2.087	47	1.850	2,89	6.37
3670115	KM80TSTG100100M	TG100	60	2.362	100	3.937	71	2.795	—	—	2,29	5.04
3670116	KM80TSTG150125M	TG150	85	3.346	125	4.921	83	3.268	—	—	4,28	9.43

■ Spare Parts



catalog number	locknut	wrench	Nm	ft. lbs.	stop screw	wrench size stop screw	Nm	ft. lbs.
KM80TSTG075160M	LNA075M	HSW45M	108	80	SS081041G	4mm & 5/32	108 - 136	80 - 100
KM80TSTG100100M	LNA100M	HSW58M	163	120	—	—	163 - 203	120 - 150
KM80TSTG150125M	LNA150M	HSW80M	217	160	—	—	217 - 271	160 - 200

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 L16–L17.

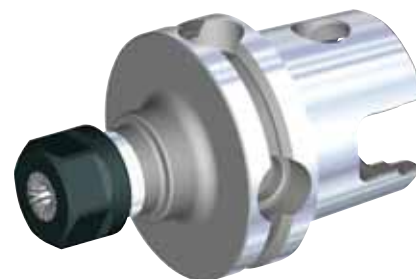
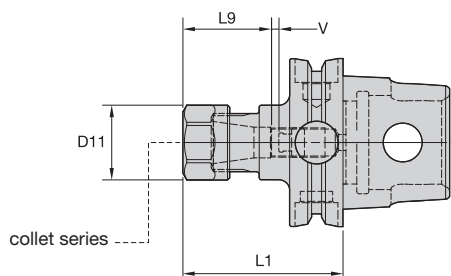
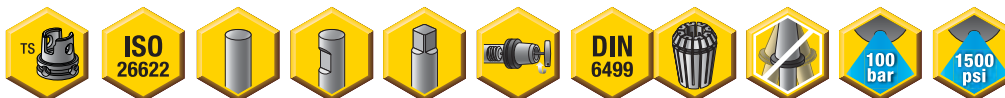
Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.

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.

- Grip (2:1 advantage).



KM80TS Shank Tools



ER collet series	Collet Capacity		mm		inch	
	min	max	min	max	min	max
ER20	0,5	13,0	.02	.50		

■ ER • Hex Nut

order number	catalog number	collet series	D11		L1		L9		V		kg	lbs
			mm	in	mm	in	mm	in	mm	in		
3683339	KM80TSER20100M	ER20	34	1.339	100	3.937	36	1.417	43	1.693	1,49	3.29

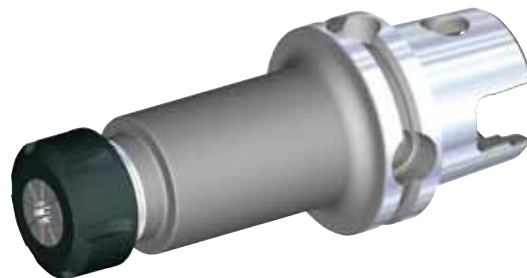
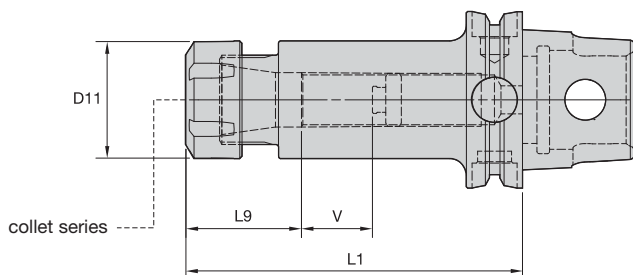
■ Spare Parts

catalog number	hex locknut	OEW	stop screw	counterbore collet torque		straight collet torque	
				Nm	ft. lbs.	Nm	ft. lbs.
KM80TSER20100M	LNHSER20M	OEW30M	SS056041G	32	24	80	59

(continued)

(ER continued)

- Grip (2:1 advantage).



ER collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
ER25	1,0	16,0	.04	.63
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

■ ER • Round Nut

order number	catalog number	collet series	D11		L1		L9		V		kg	lbs
			mm	in	mm	in	mm	in	mm	in		
3683341	KM80TSER25100M	ER25	42	1.654	100	3.937	40	1.575	37	1.457	1,67	3.67
3683342	KM80TSER32065M	ER32	50	1.969	65	2.559	47	1.862	—	—	1,42	3.13
3683354	KM80TSER32100M	ER32	50	1.969	100	3.937	46	1.811	28	1.102	1,85	4.08
3683353	KM80TSER40090M	ER40	63	2.480	90	3.543	70	2.768	—	—	2,06	4.53
3683355	KM80TSER40140M	ER40	63	2.480	140	5.512	52	2.047	48	1.890	3,12	6.87

■ Spare Parts



catalog number	locknut	wrench	stop screw	Nm	ft. lbs.
KM80TSER25100M	LNSER25M	ER25WM	SS075041G	104	77
KM80TSER32065M	LNSER32M	ER32WM	—	136	100
KM80TSER32100M	LNSER32M	ER32WM	SS094041G	136	100
KM80TSER40090M	LNSER40M	ER40WM	—	176	130
KM80TSER40140M	LNSER40M	ER40WM	SS112041G	176	130

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.

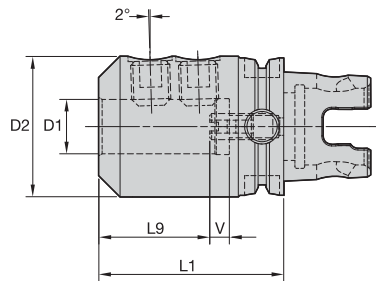
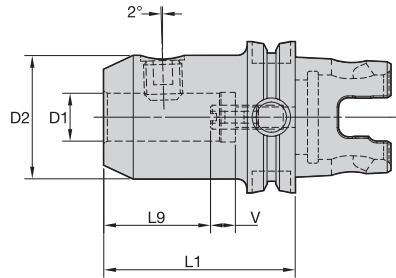
Interchangeable coolant-style locknuts and coolant disks are available and must be ordered separately; see page L22.

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.

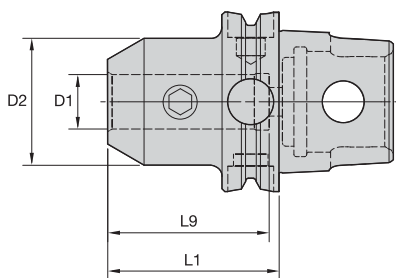
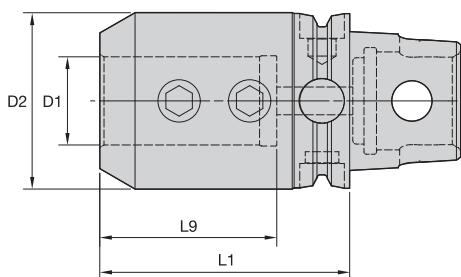


■ WN • Metric



order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	Nm	stop screw	wrench size stop screw	kg
3670133	KM80TSWN12075M	12	42	75	40	10	SS03M023	6mm	35	571.074	5mm	1,61
3670134	KM80TSWN20085M	20	52	85	45	10	SS03M026	8mm	95	571.076	6mm	1,96
3670135	KM80TSWN25100M	25	65	100	50	10	SS03M027	10mm	135	571.077	6mm	2,78
3670136	KM80TSWN32105M	32	72	105	54	10	SS03M029	10mm	160	571.077	6mm	3,22

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw and stop screw.
Lock screw and stop screw wrenches are not included.



■ EM • Metric



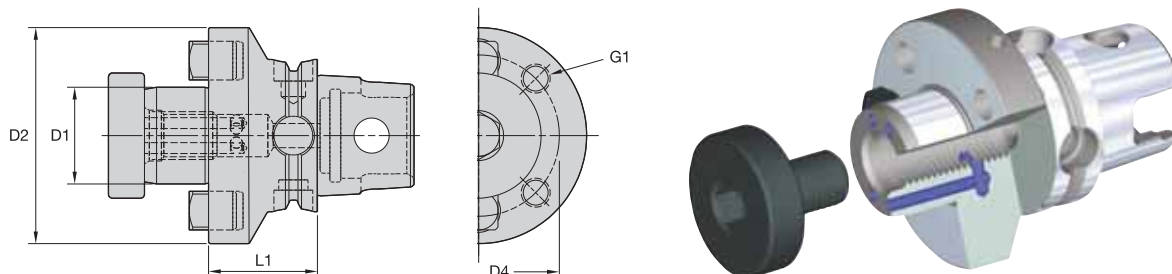
order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	Nm	kg
3683878	KM80TSEM12070M	12	42	70	50	SS03M023	6mm	35	1,55
3683879	KM80TSEM14070M	14	44	70	50	SS03M023	6mm	35	1,59
3683880	KM80TSEM16070M	16	48	70	53	SS03M025	6mm	50	1,67
3683881	KM80TSEM18070M	18	50	70	53	SS03M025	6mm	50	1,70
3683882	KM80TSEM20070M	20	52	70	55	SS03M026	8mm	95	1,73
3683903	KM80TSEM25090M	25	65	90	60	SS03M027	10mm	135	2,53
3683904	KM80TSEM32090M	32	72	90	65	SS03M029	10mm	160	2,76
3683905	KM80TSEM40100M	40	90	100	75	SS03M032	10mm	160	4,09

■ EM • Inch

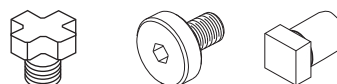


order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
3670301	KM80TSEM050354	1/2	1.375	3.543	1.974	ELS044038PKG	7/32	20	3.39
3670343	KM80TSEM062354	5/8	1.625	3.543	2.094	ELS056050PKG	1/4	40	3.76
3670344	KM80TSEM075354	3/4	1.750	3.543	2.224	ELS062050PKG	5/16	70	3.90
3670345	KM80TSEM088354	7/8	2.000	3.543	2.224	ELS062050PKG	5/16	70	4.34
3670346	KM80TSEM100354	1	2.000	3.543	2.559	ELS075056PKG	3/8	110	4.13
3670347	KM80TSEM125354	1 1/4	2.500	3.543	2.509	ELS075056PKG	3/8	110	5.10
3670348	KM80TSEM150382	1 1/2	2.750	3.819	2.931	ELS075056PKG	3/8	110	5.74
3670349	KM80TSEM200492	2	3.750	4.921	3.533	ELS100088PKG	1/2	150	11.57

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.

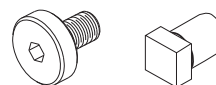


■ SMC • Metric



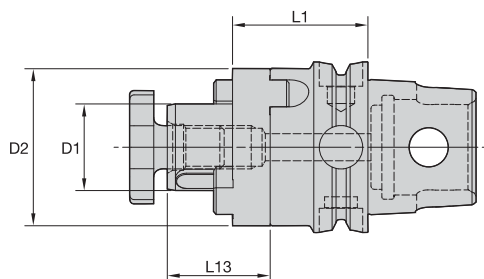
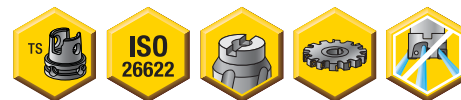
order number	catalog number	D1	D2	D4	G1	L1	lock screw	lock screw	drive key	wrench size lock screw	kg
3683472	KM80TSSMC27050M	27	60	—	—	50	—	KLSS27M	KDK27M	10mm	1,86
3683483	KM80TSSMC32060M	32	78	—	—	60	—	KLSS32M	KDK32M	14mm	2,62
3683484	KM80TSSMC32100M	32	78	—	—	100	—	KLSS32M	KDK32M	14mm	3,79
3683485	KM80TSSMC40060M	40	89	67	M12X1.75	60	—	KLSS40M	KDK40M	17mm	3,21
3683486	KM80TSSMC40100M	40	89	67	M12X1.75	100	—	KLSS40M	KDK40M	17mm	4,56
3683487	KM80TSSMC50070M	50	98	—	—	70	KLS50M	—	KDK40M	—	4,26
3683488	KM80TSSMC60070M	60	129	102	M16X2.0	70	—	—	KDK60M	—	5,81

■ SMC • Inch



order number	catalog number	D1	D2	D4	G1	L1	lock screw	drive key	wrench size lock screw	lbs
3670508	KM80TSSMC100158	1	2.752	—	—	1.575	KLS10	KDK06	5/16	3.88
3670509	KM80TSSMC125158	1 1/4	2.878	—	—	1.575	KLS12	KDK08	5/16	4.19
3670510	KM80TSSMC125394	1 1/4	2.878	—	—	3.937	KLS12	KDK08	5/16	8.45
3670511	KM80TSSMC150158	1 1/2	3.386	—	—	1.575	KLS15	KDK10	3/8	5.00
3670512	KM80TSSMC200216	2	4.882	4.000	5/8 - 11	2.165	KLS20	KDK12	9/16	9.48
3670533	KM80TSSMC250225	2 1/2	4.882	4.000	5/8 - 11	2.250	—	KDK16	—	10.74
3670534	KM80TSSMC250450	2 1/2	4.882	4.000	5/8 - 11	4.500	—	KDK16	—	22.55

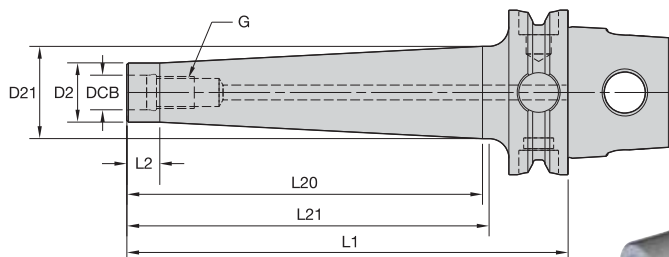
NOTE: Do not overtighten lock screw.
 Supplied with lock screw and drive keys.
 Interchangeable coolant-style lock screws are available and must be ordered separately; see page L38.
 Lock screw wrench not included.



■ CS • Metric



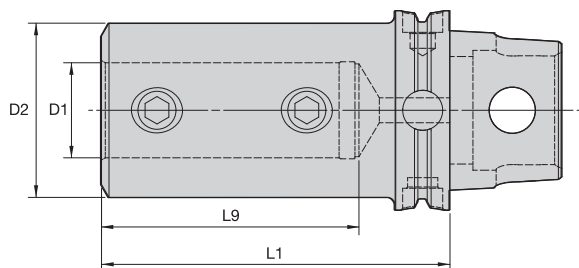
order number	catalog number	D1	D2	L1	L13	lock screw	Nm	combi driver	combi drive key	kg
3735656	KM80TSCS32050M	32	58	50	38	KLS32M	95	CDR32M	CDK32M	1,89
3735658	KM80TSCS40060M	40	70	60	41	KLS40M	100	CDR40M	CDK40M	2,62



■ STC

order number	catalog number	DCB	G	D2	D21	L1	L2	L20	L21	kg
4137836	KM80TSSTC12087M	12,5	M12	21	24	87	10	57	59	1,29
4137837	KM80TSSTC12137M	12,5	M12	21	28	137	10	107	109	1,50
4137838	KM80TSSTC12187M	12,5	M12	21	30	187	10	157	159	1,73
4137839	KM80TSSTC12237M	12,5	M12	21	32	237	10	207	209	1,99
4137840	KM80TSSTC16087M	17,0	M16	29	33	87	10	57	59	1,45
4137841	KM80TSSTC16137M	17,0	M16	29	35	137	10	107	109	1,78
4137842	KM80TSSTC16187M	17,0	M16	29	38	187	10	157	159	2,19
4137883	KM80TSSTC16237M	17,0	M16	29	40	237	10	207	209	2,62

NOTE: For technical information, see page M96–M97.



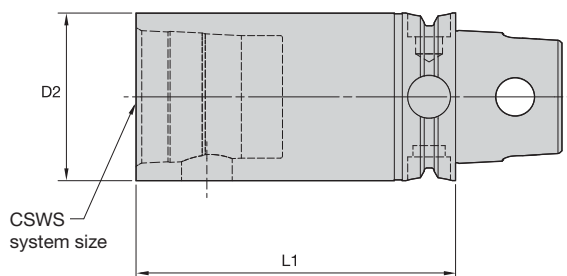
SSF • Inch

order number	catalog number	D1	D2	L1	L9	flat point socket set screw	ft. lbs.	lbs
3683935	KM80TSSSF075350	3/4	1.750	3.500	2.311	ELS062050PKG	70	3.94
3683936	KM80TSSSF100450	1	2.000	4.500	3.307	—	110	4.91
3683937	KM80TSSSF125500	1 1/4	2.500	5.000	3.563	ELS075056PKG	110	6.88
3683938	KM80TSSSF150550	1 1/2	2.750	5.500	4.063	ELS075056PKG	110	8.08
3683939	KM80TSSSF200650	2	3.750	6.500	4.311	ELS100088PKG	150	15.88



WARNING

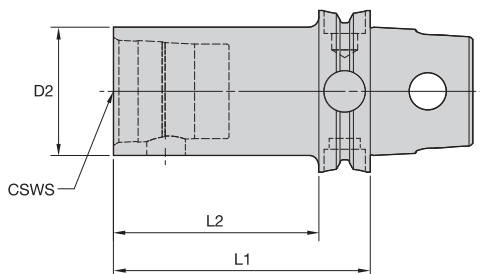
During through-hole operations, a slug or disk is produced as the tool breaks through the workpiece. When the drill is stationary and the workpiece is rotating, this slug may be hurled from the chuck by centrifugal force. Provide adequate shielding to protect bystanders.



S • KM™ Extension

order number	catalog number	CSWS system size	D2		L1		spare parts package	Nm	ft. lbs.	kg	lbs
			mm	in	mm	in					
3668965	KM80TSS80120M	KM80	80	3.150	120	4.724	KM80PKG3S	78-84	58-64	4,23	9.32
3668967	KM80TSS80160M	KM80	80	3.150	160	6.299	KM80PKG3S	78-84	58-64	5,76	12.71

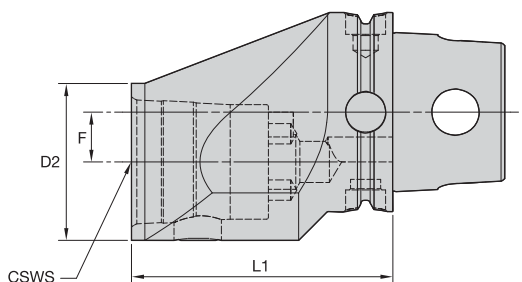




■ S • KM Reducer



order number	catalog number	CSWS system size	D2		L1		L2		spare parts package	Nm	ft. lbs.	kg	lbs
			mm	in	mm	in	mm	in					
3668961	KM80TSS40060M	KM40	40	1.575	60	2.362	38	1.496	KM40PKG3S	12-16	9-12	1,41	3.10
3668963	KM80TSS50080M	KM50	50	1.969	80	3.150	58	2.283	KM50PKG3S	27-34	20-25	1,81	3.99
3668964	KM80TSS63080M	KM63	63	2.480	80	3.150	58	2.283	KM63PKG3S	47-54	35-40	2,14	4.71



■ ES • KM Offset Reducer

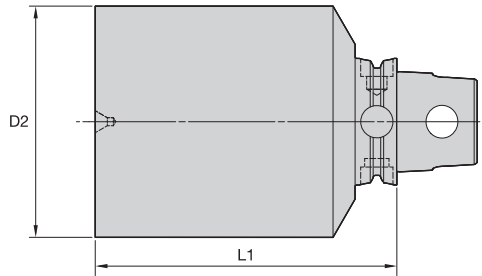


order number	catalog number	CSWS system size	D2		L1		F		spare parts package	wrench size actuation screw	Nm	ft. lbs.	kg	lbs
			mm	in	mm	in	mm	in						
3734754	KM80TSESR63105M right hand	KM63	63	2.4803	105	4.134	20	.787	KM63PKG3S	12mm	47-54	35-40	3,81	8.40
3734753	KM80TSESL63105M left hand	KM63	63	2.4803	105	4.134	20	.787	KM63PKG3S	12mm	47-54	35-40	3,81	8.40

- Machinable front 32–38 HRC.



KM80TS Shank Tools



■ BN

order number	catalog number	D2		L1		hardness range	kg	lbs
		mm	in	mm	in			
3653264	KM80TSBN125075M	125	4.921	75	2.953	32–38 HRC	6,17	13.60
3653265	KM80TSBN140130M	140	5.512	130	5.118	32–38 HRC	14,08	31.04
3653266	KM80TSBN150160M	150	5.906	160	6.299	32–38 HRC	20,13	44.39
3653267	KM80TSBN150250M	150	5.906	250	9.843	32–38 HRC	32,59	71.85
3653268	KM80TSBN175175M	175	6.890	175	6.890	32–38 HRC	29,56	65.17

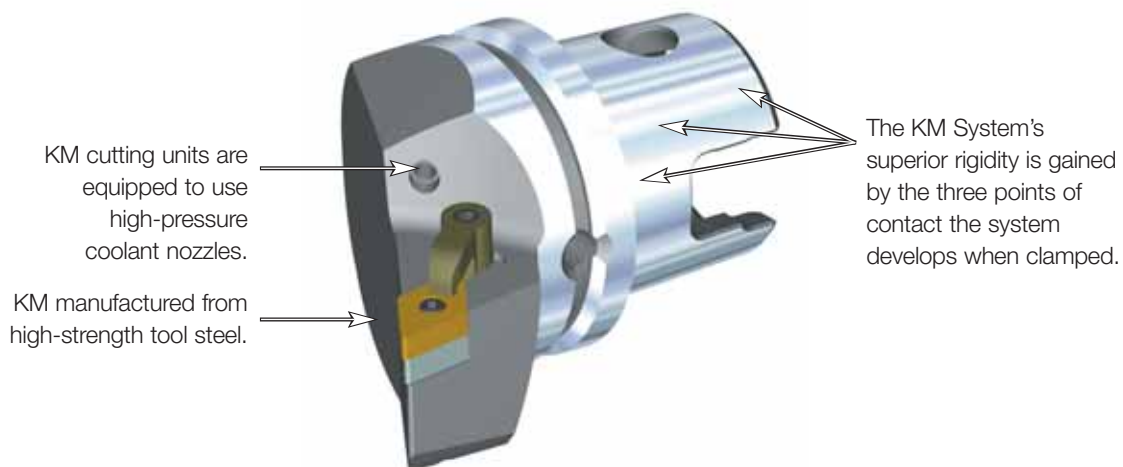
KM™ Quick Change Tooling System • KM63XMZ™ Series

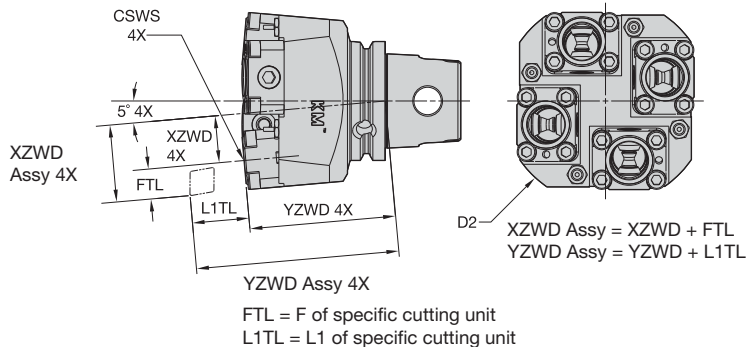
Primary Application

The KM Quick Change Clamping System is the best system on the market suitable for static, rotating, and multitasking operations. With its industry-leading design, the KM Quick Change System provides greater clamping forces than other quick-change systems. The KM Quick Change System gives you the flexibility to use KM on any application within your shop.

Features and Benefits

- KM63XMZ is designed to be used on Mazak® Mark IV Series and I- and J-Series INTEGREX® Machines.
- KM63XMZ is your solution for multitasking.





Left-Hand Tool

■ 4xSTAL • KM25

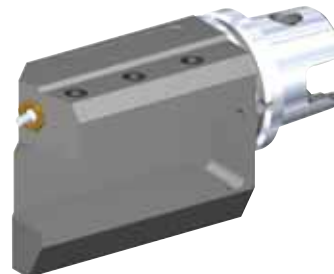
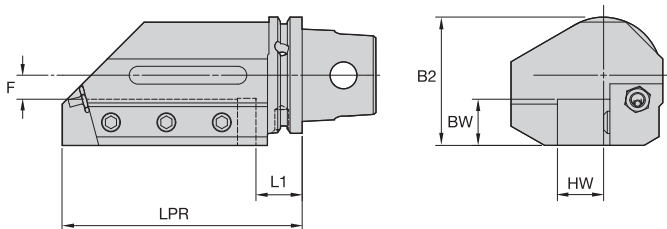
order number	catalog number	CSWS system size	D2	XZWD		YZWD		Nm	kg
				mm	in	mm	in		
2614687	KM63XMZ4XSTALFKM25Y	KM25	110	24	.945	80	3.150	34	3,11

■ Spare Parts



catalog number	nozzle	flange clamping unit	KM spare parts package
KM63XMZ4XSTALFKM25Y	PMT08420 COOLANT NOZZLE SPRAY	KM25NCMSF3140MST	KM25NRPKG

NOTE: For torque wrench, see pages L52–L53.



■ STA • Straight Side Mount • Metric



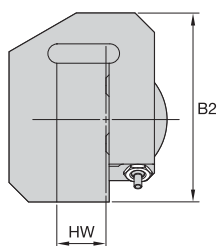
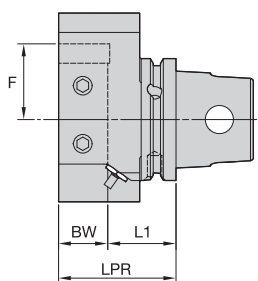
order number	catalog number	L1	LPR	F	HW	BW	B2	cup point socket set screw	nozzle	Nm	kg
1855652	KM63XMZSTALF2020Y	25	100	10	20	20	62	MS2049	PMT04526 COOLANT NOZZLE SPRAY	35	2,46
1506498	KM63XMZSTALF2525Y	25	130	13	25	25	70	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	3,54
1850241	KM63XMZSTAR2020Y	25	100	10	20	20	62	MS2049	PMT04526 COOLANT NOZZLE SPRAY	35	2,43
1514567	KM63XMZSTAR2525Y	25	130	13	25	25	70	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	3,58

■ STA • Straight Side Mount • Inch



order number	catalog number	L1	LPR	F	HW	BW	B2	cup point socket set screw	nozzle	ft. lbs.	lbs
1855684	KM63XMZSTALF12Y	.921	3.937	.378	.750	.750	2.421	MS2049	PMT04526 COOLANT NOZZLE SPRAY	26	5.38
1516687	KM63XMZSTALF16Y	.906	5.118	.522	1.000	1.000	2.762	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	7.83
1855683	KM63XMZSTAR12Y	.921	3.937	.378	.750	.750	2.421	MS2049	PMT04526 COOLANT NOZZLE SPRAY	26	5.32
1516683	KM63XMZSTAR16Y	.906	5.118	.522	1.000	1.000	2.762	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	7.92

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.



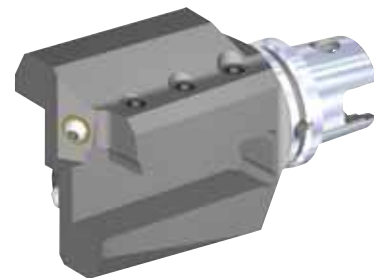
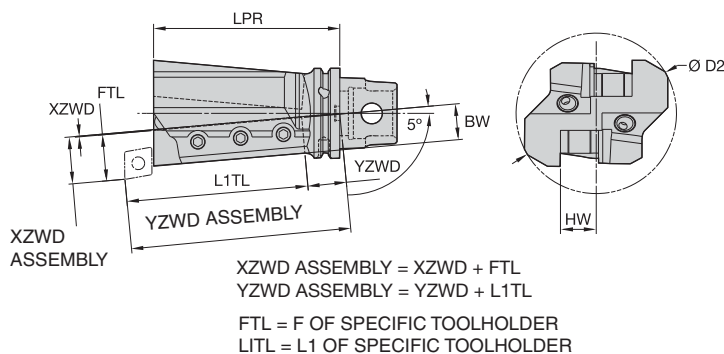
■ ETA • Straight End Mount • Inch

order number	catalog number	L1	LPR	F	HW	BW	B2	ft. lbs.	lbs
3103491	right hand KM63XMZETAR16Y	1.388	2.388	-1.539	1.000	1.000	3.839	40	4.97
3103492	left hand KM63XMZETALF16Y	1.388	2.388	-1.539	1.000	1.000	3.839	40	4.85

■ Spare Parts

catalog number	cup point socket set screw	nozzle
right hand KM63XMZETAR16Y	DWG 249618-23R05	PMT04526 COOLANT NOZZLE SPRAY
left hand KM63XMZETALF16Y	DWG 249618-23R05	PMT04526 COOLANT NOZZLE SPRAY

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.

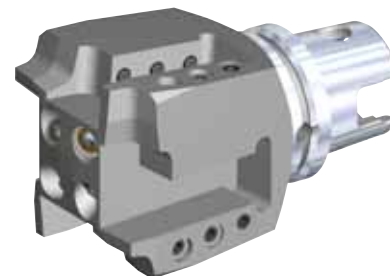
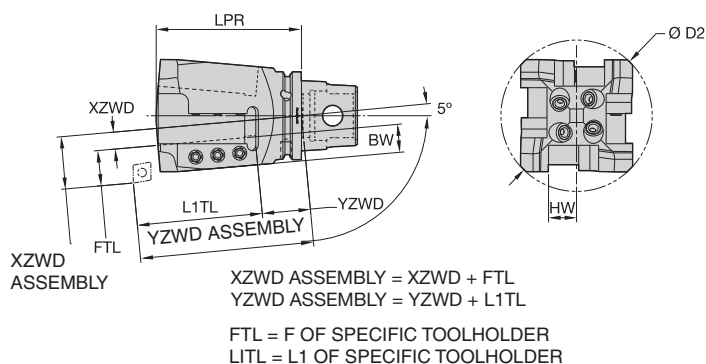


■ STA • 2x Straight Side Mount • Metric



order number	catalog number	D2	LPR	XZWD	YZWD	HW	BW	cup point socket set screw	Nm	nozzle	kg
1847363	right hand KM63XMZ2XSTAR2525Y	112	130	1	28	25	25	MS1430	55	PWZ1012	3,85
1868533	left hand KM63XMZ2XSTALF2525Y	112	130	1	28	25	25	MS1430	55	PWZ1012	3,85

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.

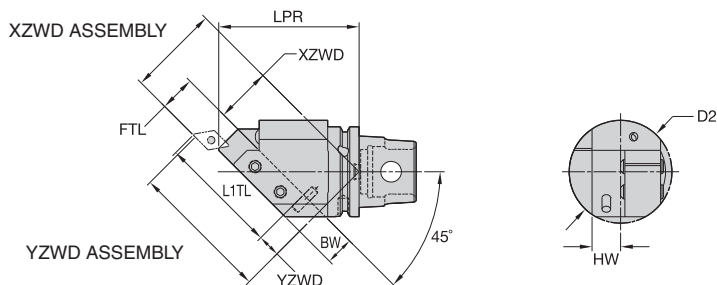


■ STA • 4x Straight Side Mount • Metric



order number	catalog number	D2	LPR	XZWD	YZWD	HW	BW	cup point socket set screw	Nm	nozzle	kg
1725301	KM63XMZ4XSTAR2020Y	108	104	12	34	20	20	121.830	18	PWZ1008	2,92

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.



XZWD ASSEMBLY = XZWD + FTL
 YZWD ASSEMBLY = YZWD + L1TL
 FTL = F OF SPECIFIC TOOLHOLDER
 L1TL = L1 OF SPECIFIC TOOLHOLDER



■ TA 45 • 45° Mount • Metric



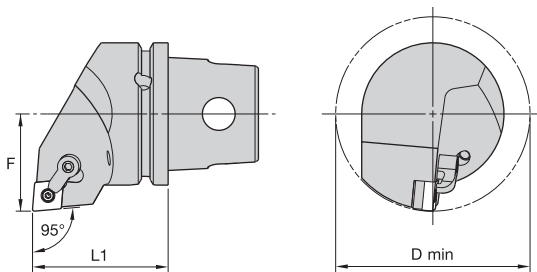
order number	catalog number	D2	LPR	XZWD	YZWD	HW	BW	cup point socket set screw	nozzle	Nm	kg
	right hand										
1855665	KM63XMZ45TAR2020Y	72	99	39	16	20	20	MS2049	PWZ1012	25	2,01
	left hand										
1855669	KM63XMZ45TALF2020Y	72	99	39	16	20	20	MS2049	PWZ1012	25	2,01

■ TA 45 • 45° Mount • Inch



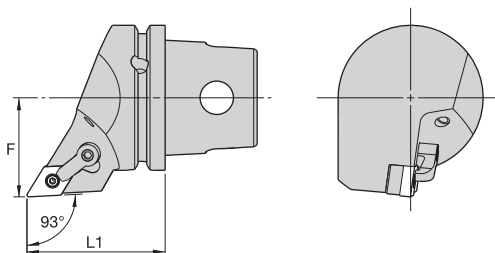
order number	catalog number	D2	LPR	XZWD	YZWD	HW	BW	cup point socket set screw	nozzle	ft. lbs.	lbs
	right hand										
1855685	KM63XMZ45TAR12Y	2.835	3.887	1.518	.451	.750	.750	MS2049	PWZ1012	18	4.38
	left hand										
1855686	KM63XMZ45TALF12Y	2.835	3.887	1.518	.451	.750	.750	MS2049	PWZ1012	18	4.38

NOTE: Do not overtighten clamp screw; use torque recommendations above.
 Supplied with clamp screw.
 Clamp screw wrench not included.



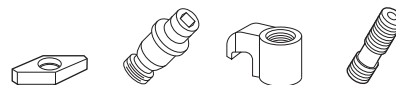
■ MCLN 95°

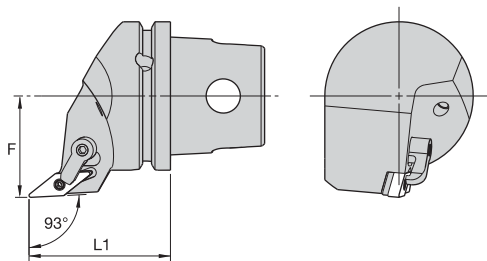
order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
	right hand													
1551813	KM63XMZMCLNR12Y	60	2.362	43	1.693	86	3.386	CN..120408/CN..432	ICSN432	KLM46	CKM20	STCM11	1,24	2.73
1603738	KM63XMZMCLNR16Y	60	2.362	43	1.693	86	3.386	CN..160612/CN..543	ICSN533	KLM58	CKM20	STCM11	1,24	2.74
	left hand													
3103485	KM63XMZMCLNLF12Y	60	2.362	43	1.693	86	3.386	CN..120408/CN..432	ICSN432	KLM46	CKM20	STCM11	1,24	2.73
3103486	KM63XMZMCLNLF16Y	60	2.362	43	1.693	86	3.386	CN..160612/CN..543	ICSN533	KLM58	CKM20	STCM11	1,24	2.74



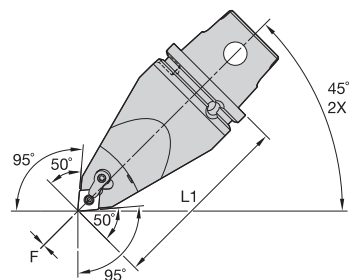
■ MDJN 93°

order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
	right hand											
3103487	KM63XMZMDJNR1504Y	60	2.362	43	1.693	DN..150408/DN..432	IDSN442	KLM46L	CKM23	STCM11	1,07	2.360
	left hand											
3103488	KM63XMZMDJNLF1504Y	60	2.362	43	1.693	DN..150408/DN..432	IDSN442	KLM46L	CKM23	STCM11	1,07	2.360



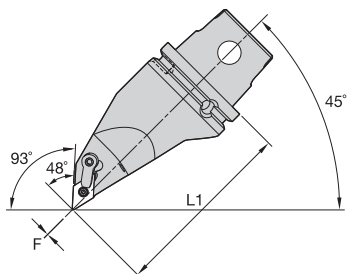

■ MVJN 93°

order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
3103489	right hand	60	2.362	43	1.693	VN..160408/VN..332	IVSN322	KLM34L	CKM23	STCM11	1,05	2.32
	left hand											
3103490	KM63XMZMVJNLF16Y	60	2.362	43	1.693	VN..160408/VN..332	IVSN322	KLM34L	CKM23	STCM11	1,05	2.32


■ MCMN 50° • 95° Application • Centerline

order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
3180556	KM63XMZMCMNNF12115Y	115	4.528	0	.000	CN..120408/CN..432	ICSN432	KLM46	CKM20	STCM11	2,07	4.57

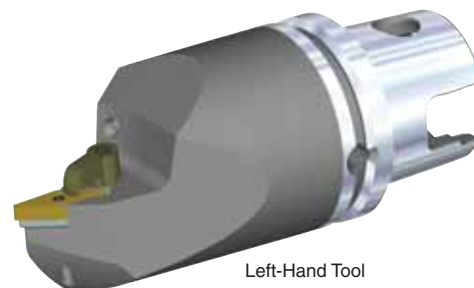
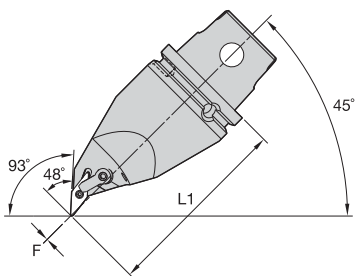




Left-Hand Tool

■ MDMN 48° • 93° Application • Centerline

		L1		F									
order number	catalog number	mm	in	mm	in	gage insert	shim	lock pin	clamp	clamp screw	kg	lbs	
	right hand												
3487461	KM63XMZMDMNR1504115Y	115	4.528	0	.000	DN..150408/DN..432	IDSN442	KLM46L	CKM23	STCM11	1,88	4.14	
3487462	KM63XMZMDMNR1506115Y	115	4.528	0	.000	DN..150608/DN..442	IDSN432	KLM46L	CKM23	STCM11	1,88	4.13	
	left hand												
3487458	KM63XMZMDMNLF1504115Y	115	4.528	0	.000	DN..150408/DN..432	IDSN442	KLM46L	CKM23	STCM11	1,87	4.11	
3487459	KM63XMZMDMNLF1506115Y	115	4.528	0	.000	DN..150608/DN..442	IDSN432	KLM46L	CKM23	STCM11	1,86	4.10	



Left-Hand Tool

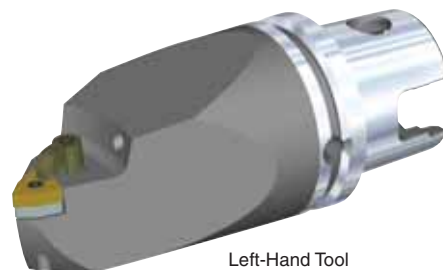
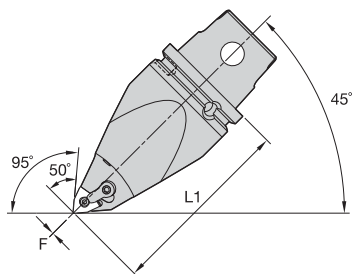
■ MVMN 48° • 93° Application • Centerline

		L1		F								
order number	catalog number	mm	in	mm	in	gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
3487473	right hand	115	4.528	0	.000	VN..160408/VN..332	IVSN322	KLM34L	CKM23	STCM11	1,97	4.35
	KM63XMZMVMNR16115Y											
3487460	left hand	115	4.528	0	.000	VN..160408/VN..332	IVSN322	KLM34L	CKM23	STCM11	1,97	4.35
	KM63XMZMVMNLF16115Y											



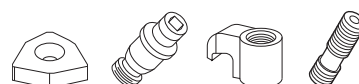


KM63XMZ Cutting Units

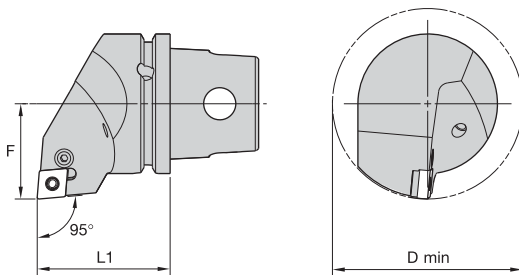


Left-Hand Tool

■ MWMN 50° • 95° Application • Centerline



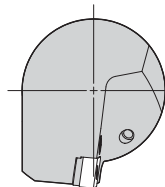
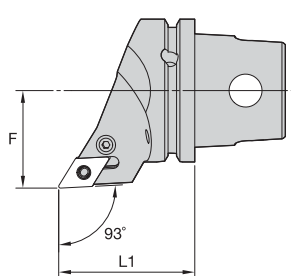
order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
3487572	right hand KM63XMZMWMNR08115Y	115	4.528	0	.000	WN..080408/WN..432	IWSN433	KLM46	CKM20	STCM11	2,03	4.47
3487571	left hand KM63XMZMWMNLF08115Y	115	4.528	0	.000	WN..080408/WN..432	IWSN433	KLM46	CKM20	STCM11	2,02	4.46



■ PCLN 95°

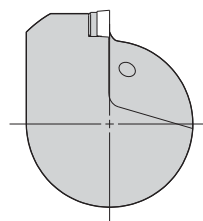
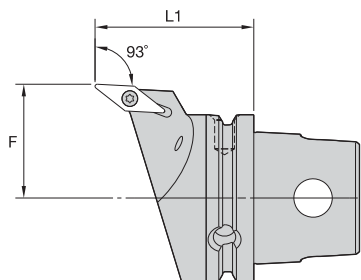
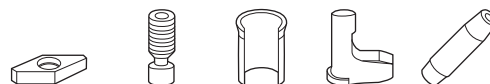


order number	catalog number	L1		F		D min		gage insert	shim	lever screw	shim pin	toggle lever	punch	kg	lbs
		mm	in	mm	in	mm	in								
2231263	right hand KM63XMZPCLNR12Y	60	2.362	43	1.693	86	3.386	CN..120408/CN..432	512.112	514.023	513.023	511.023	515.018	1,23	2.71
2231264	left hand KM63XMZPCLNLF12Y	60	2.362	43	1.693	86	3.386	CN..120408/CN..432	512.112	514.023	513.023	511.023	515.018	1,23	2.71



■ PDJN 93°

order number	catalog number	L1		F		gage insert	shim	lever screw	shim pin	toggle lever	punch	kg	lbs
		mm	in	mm	in								
2231265	KM63XMZPDJNR15Y	60	2.362	43	1.693	DN..150608/DN..442	512.153	514.028	513.023	511.024	515.018	1,04	2.29

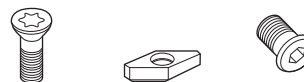


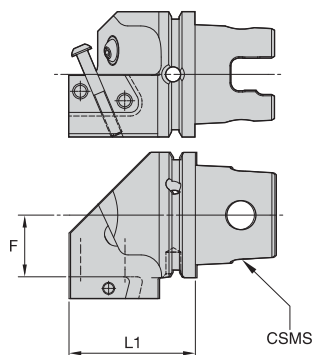
Left-Hand Tool



■ SVJB 93°

order number	catalog number	L1		F		gage insert	insert screw	shim	shim screw	kg	lbs
		mm	in	mm	in						
2231270	KM63XMZSVJBLF16Y	60	2.362	43	1.693	VB..160408/VB..332	MS1156	SKVN343	SRS3	1,07	2.35

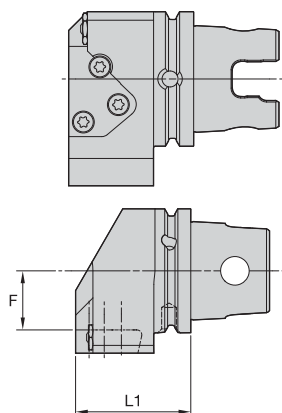




■ KGMS • Side Mount

		L1		F						
order number	catalog number	mm	in	mm	in	cartridge size	blade screw	clamp screw	nozzle	kg
right hand										
1756550	KM63XMZKGMSR50Y	63,5	2.500	31	1.220	50	MS1162	MS2002	SB09530PWZ1012	1,40
left hand										
1756574	KM63XMZKGMSLF50Y	63,5	2.500	31	1.220	50	MS1162	MS2002	SB09530PWZ1012	1,40

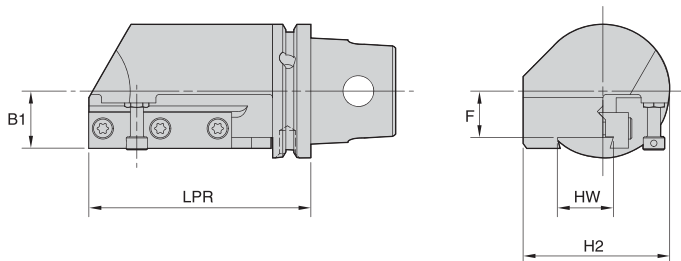
NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use right-hand blades.



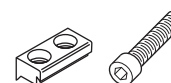
■ KGMS • Side Mount

		L1		F					
order number	catalog number	mm	in	mm	in	cartridge size	blade screw	nozzle	kg
left hand									
3588680	KM63XMZKGMSLF65Y	58,5	2.303	30	1.181	65	MS1163	PMT04525	1,74

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use right-hand blades.

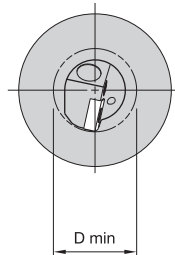
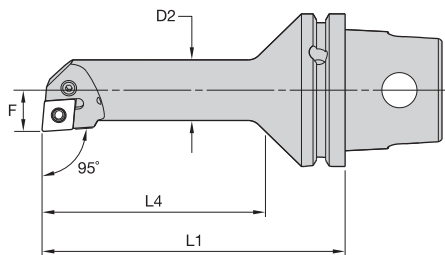


■ BS • Side Mount



order number	catalog number	B1		LPR		F		H2		HW		cartridge size	cartridge 1	clamp	clamp screw	kg
		mm	in	mm	in	mm	in	mm	in	mm	in					
1982386	KM63XMZBSR4Y	37,6	1.480	104,6	4.118	21,92	.863	69,1	2.720	26,0	1.024	26	A2BNSN26...	CGS4	MS1595	2,27
1831638	KM63XMZBSR5Y	40,0	1.575	123,8	4.874	39,92	1.572	71,5	2.814	32,0	1.260	32	A2BNSN32...	CGS5	MS1595	3,64
1982387	KM63XMZBSLF4Y	37,6	1.480	104,6	4.118	21,92	.863	69,1	2.720	26,0	1.024	26	A2BNSN26...	CGS4	MS1595	2,31
1831634	KM63XMZBSLF5Y	40,0	1.575	123,8	4.874	39,92	1.572	71,5	2.814	32,0	1.260	32	A2BNSN32...	CGS5	MS1595	3,63

NOTE: Blades are ordered seperately. See the Kennametal Innovations Master Catalog Cutting Tools 2013.



■ PCLN 95°

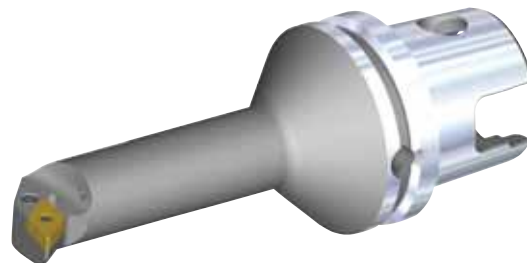
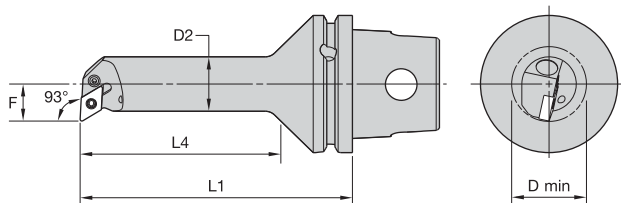
order number	catalog number	D2		D min		F		L4		L1		gage insert	kg	lbs
	right hand													
2231271	KM63XMZS25KPCLNR12Y	25	.98	32	1.26	17	.669	88	3.45	125	4.921	CN..120408/CN..432	1,17	2.57
	left hand													
2231272	KM63XMZS25KPCLNLF12Y	25	.98	32	1.26	17	.669	88	3.45	125	4.921	CN..120408/CN..432	1,17	2.57

■ Spare Parts

catalog number	lever screw	toggle lever
right hand		
KM63XMZS25KPCLNR12Y	514.022	511.022
left hand		
KM63XMZS25KPCLNLF12Y	514.022	511.022



■ PDUN 93°



order number	catalog number	D2		D min		F		L4		L1		gage insert	kg	lbs
		mm	in	mm	in	mm	in	mm	in	mm	in			
2231273	right hand KM63XMZS25KPDUNR11Y	25	.98	32	1.26	17	.669	88	3.45	125	4.921	DN..110408/DN..332	1,15	2.530
2231274	left hand KM63XMZS25KPDUNLF11Y	25	.98	32	1.26	17	.669	88	3.45	125	4.921	DN..110408/DN..332	1,15	2.530

■ Spare Parts

catalog number	lever screw	toggle lever
right hand KM63XMZS25KPDUNR11Y	514.012	511.015
left hand KM63XMZS25KPDUNLF11Y	514.012	511.015

KSRM™

Multipurpose Milling Cutters

Specially developed for machining titanium and stainless steel. KSRM platform enables you to pocket, profile, ramp, and plunge with up to 1mm (.039") fz with consistent performance, providing outstanding metal removal rates with the lowest cutting forces in roughing applications.

- Anti-rotation feature with eight indexes.
- High positive topography with strong cutting edges.
- High clearance on the cutters and inserts.
- Wide cutter offering with internal coolant.
- Ground and PSTS inserts.
- Provides more stability and reliability.
- Lower cutting forces generated.
- Cutters can run with higher feed rates and better ramping capacities.
- Take advantage of through-spindle coolant to use the latest holders offered.
- Cover extensive workpiece materials.
- Superior productivity and better insert utilization/cost per edge.
- Long tool life and better metal removal rates.
- Able to convert all milling applications.
- Improve tool life and chip evacuation.
- Superior overall performance.

Experience the advantages at your Authorized Kennametal Distributor or at www.kennametal.com.

www.kennametal.com

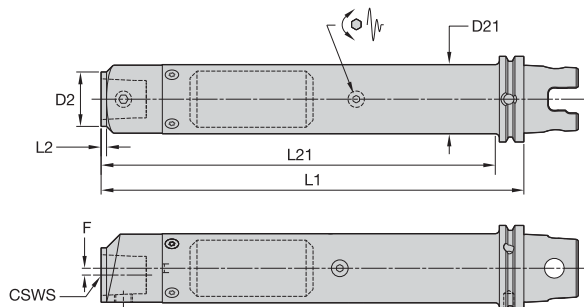


KM63XMZ Shank Tools

Tunable Bars with KM™ Quick Change Connection



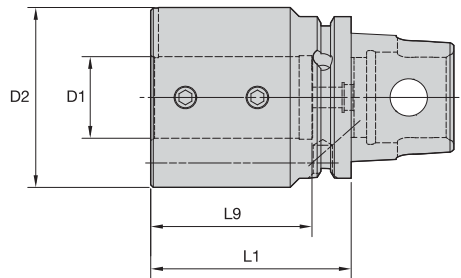
KM63XMZ Shank Tools



■ TTB • KM Tunable Bar • KM

order number	catalog number	CSWS system size	D2		D21		F		L1		L2		L21	
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in
3901271	KM63XMZD24TTB9KM40	KM40	38,10	1.500	—	—	0,00	.000	234,55	9.234	216,55	8.526	—	—
3901274	KM63XMZD28TTB14KM40	KM40	44,45	1.750	—	—	0,00	.000	361,52	14.233	4,00	.157	341,52	13.446
3901272	KM63XMZD32TTB12KM40	KM40	50,00	1.969	—	—	5,00	.197	310,71	12.233	4,00	.157	290,71	11.445
3901275	KM63XMZD32TTB16KM40	KM40	50,00	1.969	—	—	5,00	.197	412,32	16.233	4,00	.157	392,32	15.446
3901273	KM63XMZD40TTB15KM40	KM40	63,50	2.500	—	—	11,75	.463	386,92	15.233	4,00	.157	368,92	14.524
3901276	KM63XMZD40TTB20KM40	KM40	63,50	2.500	—	—	11,75	.463	513,92	20.233	4,00	.157	495,92	19.524

NOTE: Tunable technical section, see page M90.



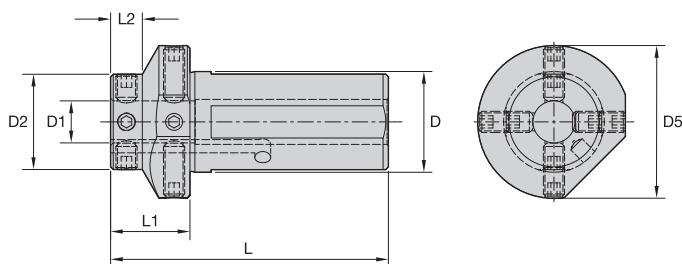
■ BA • Boring Bar Adapter • Internal and External Coolant • Metric

order number	catalog number	D1	D2	L1	L9	clamp screw	nozzle	wrench size clamp screw	Nm	kg
1855688	KM63XMZBA3278Y	32	70	78	63	MS1561	PWZ1012	5mm	25	2
1510611	KM63XMZBA40105Y	40	80	105	76	MS1858	PWZ1012	6mm	45	3

■ BA • Boring Bar Adapter • Internal and External Coolant • Inch

order number	catalog number	D1	D2	L1	L9	clamp screw	nozzle	wrench size clamp screw	ft. lbs.	lbs
1855692	KM63XMZBA125307Y	1 1/4	2.76	3.071	2.48	MS1561	PWZ1012	5mm	18	4
1516678	KM63XMZBA150413Y	1 1/2	3.15	4.134	2.99	MS1858	PWZ1012	6mm	33	7
1831641	KM63XMZBA200512Y	2	3.54	5.118	3.98	MS1858	PWZ1012	6mm	33	9

NOTE: Do not overtighten clamp screw; use torque recommendations above.
 Supplied with clamp screw.
 Clamp screw wrench not included.
 For boring bar reducers, see page A570.



■ BR • Boring Bar Reducer • Metric



order number	catalog number	D	D1	D2	D5	L	L1	L2	flat point socket set screw	wrench size clamp screw	Nm	kg
1521853	KM63XMZBR4008Y	40	8	36	58	105	30	12	—	3mm	7	1,07
1521854	KM63XMZBR4010Y	40	10	36	58	105	30	12	—	3mm	7	1,04
1521857	KM63XMZBR4012Y	40	12	36	58	105	30	12	MS1109	4mm	15	0,93
1521859	KM63XMZBR4016Y	40	16	36	58	105	30	12	MS1109	4mm	15	0,85
1521860	KM63XMZBR4020Y	40	20	58	58	105	30	30	MS1878	4mm	15	0,62
1521858	KM63XMZBR4025Y	40	25	54	54	105	30	30	MS1878	4mm	15	1,03
1521856	KM63XMZBR4032Y	40	32	54	54	105	30	30	MS1878	4mm	15	0,99

■ BR • Boring Bar Reducer • Inch



order number	catalog number	D	D1	D2	D5	L	L1	L2	flat point socket set screw	wrench size clamp screw	ft. lbs.	lbs
1566093	KM63XMZBR150031Y	1.50	5/16	1.42	2.27	4.13	1.181	.472	—	3mm	5	2.21
1566078	KM63XMZBR150038Y	1.50	3/8	1.42	2.27	4.13	1.181	.472	—	3mm	5	2.14
1566079	KM63XMZBR150050Y	1.50	1/2	1.42	2.27	4.13	1.181	.472	MS1109	4mm	11	2.03
1566080	KM63XMZBR150062Y	1.50	5/8	1.42	2.27	4.13	1.181	.472	MS1109	4mm	11	1.90
1566211	KM63XMZBR150075Y	1.50	3/4	2.27	2.27	4.13	1.181	1.181	MS1878	4mm	11	2.13
1566212	KM63XMZBR150100Y	1.50	1	2.27	2.27	4.13	1.181	1.181	MS1878	4mm	11	1.73
1566213	KM63XMZBR150125Y	1.50	1 1/4	2.27	2.27	4.13	1.181	1.181	MS-1879	4mm	11	1.21

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.

Looking for a product that's not shown in this catalog?
Check the Kennametal website!

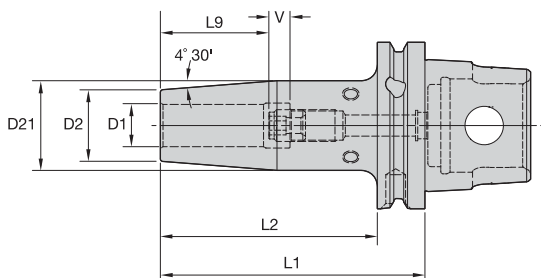


Tooling Systems

Online product catalog available 24/7

Visit <http://www.kennametal.com/toolingsystems/> to browse our electronic catalog any time you're looking for Kennametal's best tooling solutions. It's fast, free, and always available. The online e-catalog is updated weekly with products and solutions for milling, turning, holmaking, and tooling systems applications.

- 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	
4	h4	0,000/-0,004
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



■ HPV TT • Metric



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	kg
3661833	KM63XMZHPVTT04080MY	4	9		80	52	15	10	TTSS05014M	2,5mm	0,74
3661823	KM63XMZHPVTT06080MY	6	21	1	80	62	26	10	TTSS05014M	2,5mm	0,85
3661824	KM63XMZHPVTT08080MY	8	21	1	80	62	26	10	TTSS06014M	3mm	0,84
3661825	KM63XMZHPVTT10090MY	10	24	1	90	72	31	10	TTSS08014M	4mm	0,97
3661826	KM63XMZHPVTT12090MY	12	24	1	90	72	36	10	TTSS10014M	5mm	0,95
3661827	KM63XMZHPVTT14100MY	14	27	1	100	82	36	10	TTSS10014M	5mm	1,08
3661828	KM63XMZHPVTT16100MY	16	27	1	100	82	39	10	TTSS12014M	6mm	1,05
3661829	KM63XMZHPVTT18100MY	18	33	2	100	82	39	10	TTSS12014M	6mm	1,27
3661830	KM63XMZHPVTT20100MY	20	33	2	100	82	41	10	TTSS16014M	8mm	1,24
3661831	KM63XMZHPVTT25120MY	25	44	2	120	102	47	10	TTSS16014M	8mm	1,96
3661832	KM63XMZHPVTT32120MY	32	44	2	120	102	51	10	TTSS16014M	8mm	1,79

(continued)

(HPV TT continued)

Cutting Tool Shank Requirements inch (industry standard)

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

■ HPV TT • Inch



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	lbs
3858932	KM63XMZHPVTT025315Y	1/4	.827	1.059	3.150	2.441	1.024	.394	TTSS05014M	2,5mm	1.85
3858943	KM63XMZHPVTT031315Y	5/16	.827	1.059	3.150	2.441	1.024	.394	TTSS06014M	3mm	1.84
3858944	KM63XMZHPVTT038335Y	3/8	.945	1.256	3.347	2.638	1.221	.394	TTSS08014M	4mm	2.05
3858945	KM63XMZHPVTT044354Y	7/16	.945	1.256	3.543	2.835	1.417	.394	TTSS10014M	5mm	2.09
3858946	KM63XMZHPVTT050354Y	1/2	.945	1.256	3.543	2.835	1.417	.394	TTSS10014M	5mm	2.06
3858947	KM63XMZHPVTT056354Y	9/16	1.063	1.335	3.543	2.835	1.417	.394	TTSS10014M	5mm	2.19
3858948	KM63XMZHPVTT062374Y	5/8	1.063	1.335	3.740	3.032	1.535	.394	TTSS12014M	6mm	2.22
3858949	KM63XMZHPVTT068374Y	11/16	1.299	1.650	3.740	3.032	1.535	.394	TTSS12014M	6mm	2.68
3858950	KM63XMZHPVTT075394Y	3/4	1.299	1.650	3.937	3.228	1.614	.394	TTSS16014M	8mm	2.73
3858951	KM63XMZHPVTT088394Y	7/8	1.299	1.650	3.937	3.228	1.614	.394	TTSS16014M	8mm	2.64
3858952	KM63XMZHPVTT100453Y	1	1.732	2.083	4.528	3.819	1.850	.394	TTSS16014M	8mm	4.10
3858953	KM63XMZHPVTT125472Y	1 1/4	1.732	2.083	4.724	4.016	2.008	.394	TTSS16014M	8mm	3.96

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

Shrink Fit technical section, see page M78.

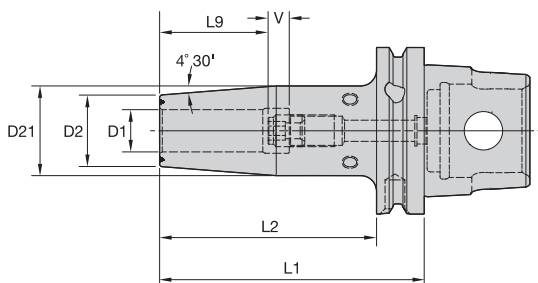
Supplied with stop screw.

Adjusting stop screw gage, see page M81.

Shrink Fit accessories, see page L12–L13.

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

- 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

■ HPV TT HT • Metric



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	kg
3661834	KM63XMZHPVTTHT12090MY	12	24	1	90	72	36	10	TTSS10014M	5mm	0,95
3661835	KM63XMZHPVTTHT14100MY	14	27	1	100	82	36	10	TTSS10014M	5mm	1,08
3661836	KM63XMZHPVTTHT16100MY	16	27	1	100	82	39	10	TTSS12014M	6mm	1,05
3661837	KM63XMZHPVTTHT18100MY	18	33	2	100	82	39	10	TTSS12014M	6mm	1,27
3661838	KM63XMZHPVTTHT20100MY	20	33	2	100	82	41	10	TTSS16014M	8mm	1,24
3661839	KM63XMZHPVTTHT25120MY	25	44	2	120	102	47	10	TTSS16014M	8mm	1,96
3661840	KM63XMZHPVTTHT32120MY	32	44	2	120	102	51	10	TTSS16014M	8mm	1,79

(continued)

(HPV TT HT continued)

Cutting Tool Shank Requirements
inch (industry standard)

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

■ HPV TT HT • Inch



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	lbs
3858954	KM63XMZHPVTTHT050354Y	1/2	.94	1.26	3.543	2.83	1.42	.39	TTSS10014M	5mm	2.06
3858955	KM63XMZHPVTTHT056354Y	9/16	1.06	1.33	3.543	2.83	1.42	.39	TTSS10014M	5mm	2.19
3858956	KM63XMZHPVTTHT062374Y	5/8	1.06	1.33	3.740	3.03	1.54	.39	TTSS12014M	6mm	2.22
3858957	KM63XMZHPVTTHT068374Y	11/16	1.30	1.65	3.740	3.03	1.54	.39	TTSS12014M	6mm	2.68
3858958	KM63XMZHPVTTHT075394Y	3/4	1.30	1.65	3.937	3.23	1.61	.39	TTSS16014M	8mm	2.73
3858959	KM63XMZHPVTTHT088394Y	7/8	1.30	1.65	3.937	3.23	1.61	.39	TTSS16014M	8mm	2.64
3858960	KM63XMZHPVTTHT100453Y	1	1.73	2.08	4.528	3.82	1.85	.39	TTSS16014M	8mm	4.10
3858961	KM63XMZHPVTTHT125472Y	1 1/4	1.73	2.08	4.724	4.02	2.01	.39	TTSS16014M	8mm	3.96

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

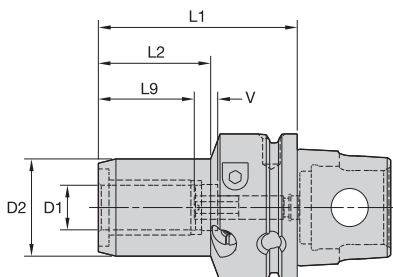
Shrink Fit technical section, see page M78.

Supplied with stop screw.

Adjusting stop screw gage, see page M81.

Shrink Fit accessories, see page L12–L13.

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



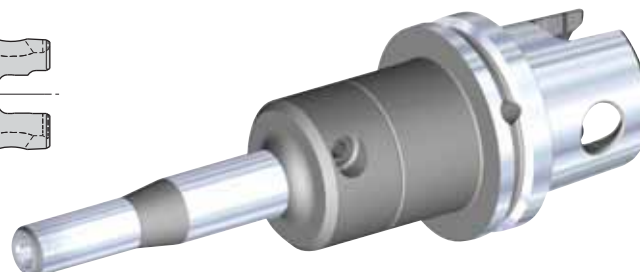
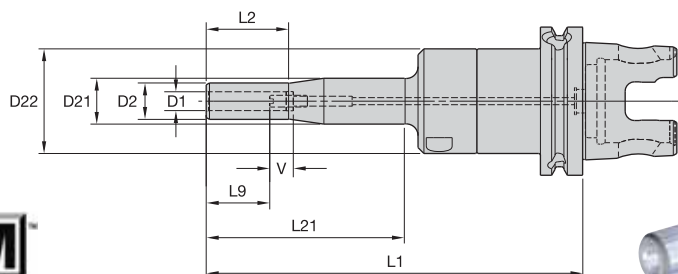
■ HC • Metric

order number	catalog number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	length adjustment wrench	wrench size stop screw	kg
1514516	KM63XMZHC2085Y	20	42	85	48	41	10	170.135	5mm	170.003	3mm	1,36
1514517	KM63XMZHC32100Y	32	60	100	59	51	10	170.136	6mm	170.004	4mm	1,97

■ HC • Inch

order number	catalog number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	length adjustment wrench	wrench size stop screw	lbs
1514514	KM63XMZHC075335Y	3/4	1.64	3.347	1.89	1.61	.39	170.135	5mm	170.003	3mm	3.04
1514515	KM63XMZHC125394Y	1 1/4	2.35	3.937	2.32	2.01	.39	170.136	6mm	170.004	4mm	4.39

NOTE: Do not overtorque clamp screw. Use supplied wrench and tighten by hand until stop is felt.
Hydraulic chuck technical section, see page M84.
Supplied with stop screw.
Reduction sleeves are available and must be ordered separately; see page J2.



■ HCSLT • Metric

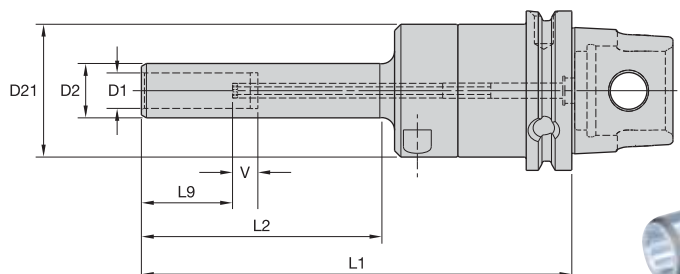
order number	catalog number	D1	D2	D21	D22	L1	L2	L21	L9	V	actuation wrench	wrench size actuation screw	length adjustment wrench	wrench size stop screw	kg
3055511	KM63XMZHCSLT06160MY	6	14	20	44	160	35	85	27	10	170.135	5mm	170.002	2,5mm	1,38
3055512	KM63XMZHCSLT08160MY	8	16	20	44	160	35	85	27	10	170.135	5mm	170.002	2,5mm	1,39
3055513	KM63XMZHCSLT10160MY	10	18	44	—	160	85	142	31	10	170.135	5mm	170.003	3mm	1,37

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

Hydraulic chuck technical section, see page M84.

Supplied with stop screw.

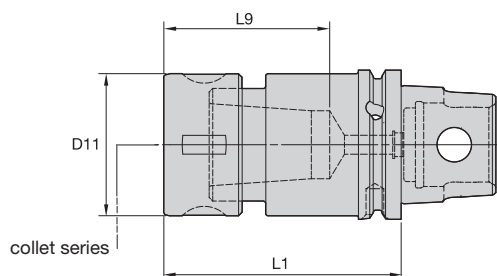
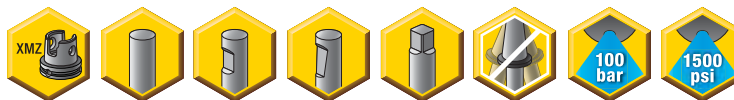
Reduction sleeves are available and must be ordered separately; see page J2.



■ HCSL • Metric

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
3055514	KM63XMZHCSL12170MY	12	20	44	170	95	36	10	170.135	5mm	170.002	2,5mm	1,41
3055515	KM63XMZHCSL14170MY	14	22	52	170	95	36	10	170.135	5mm	170.002	2,5mm	1,69
3055516	KM63XMZHCSL16170MY	16	24	52	170	95	39	10	170.135	5mm	170.002	2,5mm	1,70
3055517	KM63XMZHCSL18170MY	18	26	52	170	95	39	10	170.135	5mm	170.002	2,5mm	1,75
3055518	KM63XMZHCSL20170MY	20	28	52	170	95	41	10	170.135	5mm	170.002	2,5mm	1,78

- Tremendous grip (3:1 advantage).



TG collet series	mm		Collet Capacity	
	min	max	inch	
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

■ TG Collet Chuck • Round Nut

order number	catalog number	collet series	D11		L1		L9		kg	lbs
			mm	in	mm	in	mm	in		
1566225	KM63XMZTG05050Y	TG50	38	1.50	50	1.969	42,0	1.65	0,74	1.63
1516675	KM63XMZTG07575Y	TG75	50	1.97	75	2.953	54,0	2.13	1,30	2.88
1516677	KM63XMZTG100100Y	TG100	60	2.36	100	3.937	70,0	2.72	1,87	4.12

■ Spare Parts

catalog number	locknut	wrench	Nm	ft. lbs.
KM63XMZTG05050Y	LNA050M	HSW34M	55 - 68	40 - 50
KM63XMZTG07575Y	LNA075M	HSW45M	108 - 136	80 - 100
KM63XMZTG100100Y	LNA100M	HSW58M	163 - 203	120 - 150

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.

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.

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.



KM MicroTM and KMTM Mini

The most economical modular quick-change tooling system available.

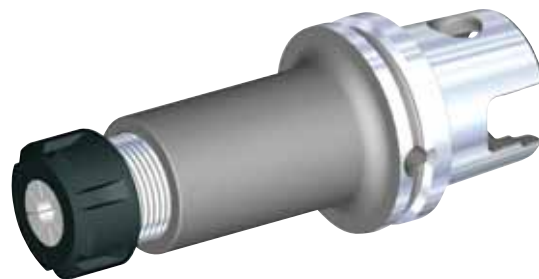
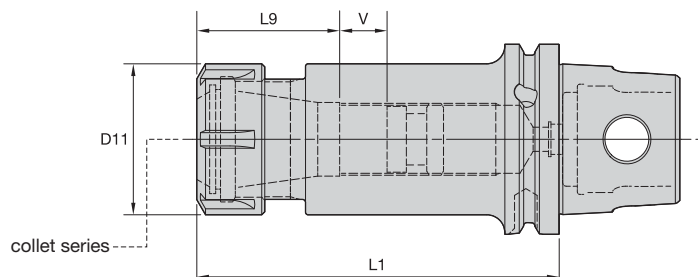
The KM Micro and KM Mini couplings offer a very rigid joint with a high degree of repeatability while maintaining a very compact envelope. This permits a high degree of versatility without sacrificing cutting performance.

- Reduce downtime, increase productivity.
- Replaces conventional square-shank tooling.
- No machine modifications required.
- KM Mini is ideal for machines up to 30 hp (22kW).

Experience the advantages at your Authorized Kennametal Distributor or at www.kennametal.com.

www.kennametal.com





ER collet series	mm		Collet Capacity	
	min	max	min	max
ER11	0,5	7,0	.02	.28
ER25	1,0	16,0	.04	.63
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

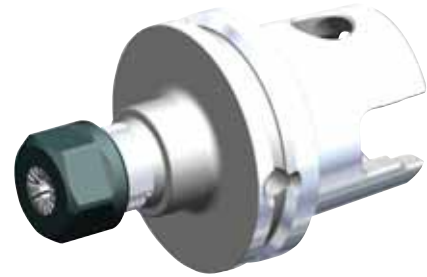
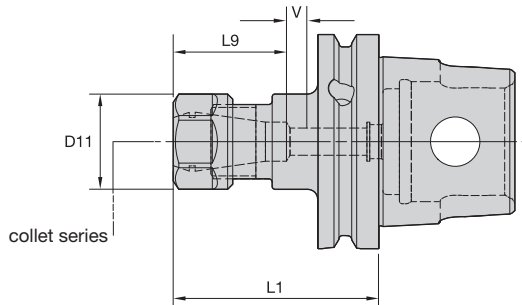
■ ER Collet Chuck • Round Nut



order number	catalog number	collet series	D11		L1		L9		V		locknut	wrench	stop screw	Nm ft. lbs. kg lbs			
			mm	in	mm	in	mm	in	mm	in							
1826965	KM63XMZER1160Y	ER11	16	.63	60	2.362	24,0	.94	—	—	LER11M	ER11WEM	—	16	12	0,71	1.56
1822413	KM63XMZER1190Y	ER11	16	.63	90	3.543	24,0	.94	—	—	LER11M	ER11WEM	—	16	12	0,82	1.81
1504983	KM63XMZER2560Y	ER25	42	1.65	60	2.362	40,0	1.57	—	—	LSER25M	ER25WM	—	104	77	0,85	1.88
1714892	KM63XMZER25120Y	ER25	42	1.65	120	4.724	40,0	1.57	40	1.57	LSER25M	ER25WM	SS075041G	104	77	1,41	3.11
1516809	KM63XMZER3260Y	ER32	50	1.97	60	2.362	47,0	1.83	—	—	LSER32M	ER32WM	—	136	100	0,91	2.00
1798651	KM63XMZER32120Y	ER32	50	1.97	120	4.724	46,0	1.81	34	1.34	LSER32M	ER32WM	SS094041G	136	100	1,69	3.72
1714893	KM63XMZER4090Y	ER40	63	2.48	90	3.543	70,3	2.77	—	—	LSER40M	ER40WM	—	176	130	1,65	3.64

(continued)

(ER Collet Chuck continued)



KM63XMZ Shank Tools

ER collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
ER16	0,5	10,0	.02	.41

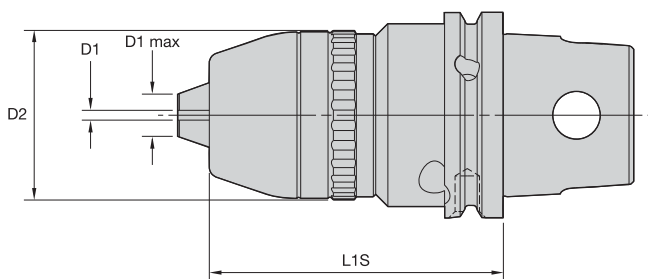


■ ER Collet Chuck • Hex Nut



order number	catalog number	collet series	D11		L1		L9		V		locknut	wrench	stop screw				
			mm	in	mm	in	mm	in	mm	in				Nm	ft. lbs.	kg	lbs
1532048	KM63XMZER16120Y	ER16	28	1.10	120	4.724	32	1.26	48	1.89	LNHSER16M	OE25M	SS044038G	56	42	1,00	2.21
1516808	KM63XMZER1660Y	ER16	28	1.10	60	2.362	32	1.26	9	.35	LNHSER16M	OE25M	SS044038G	56	42	0,74	1.63

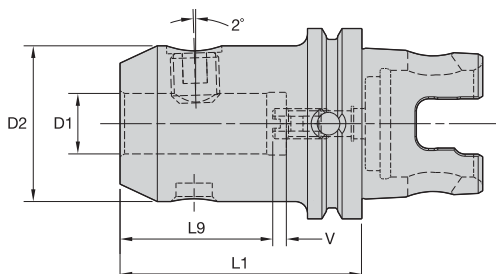
NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.
 Collet chuck technical section, see page M98.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.
 Interchangeable coolant-style locknuts and coolant disks are available and must be ordered separately; see page L19.
 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.



■ RDC • Drill Chuck

order number	catalog number	D1		D1 max		D2		L1S	
		mm	in	mm	in	mm	in	mm	in
1921511	KM63XMZRDC1390Y	1	.031	13	.500	50	1.949	90,0	3.543
3049855	KM63XMZRDC1690Y	3	.125	16	.625	52	2.047	90,0	3.543

NOTE: Activation size is 6mm.
Activation wrench included.
Wrench reorder number is 170.136.

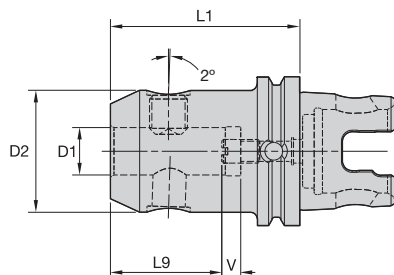


■ WN • Whistle Notch Adapter



order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	Nm	stop screw	wrench size stop screw	kg
1982384	KM63XMZW0660Y	6	25	60	30	8	SS03M012	3mm	7	571.060	2,5mm	0,76
1831642	KM63XMZW0865Y	8	28	65	30	8	SS03M014	4mm	15	571.067	3mm	0,82
1831703	KM63XMZW1070Y	10	35	70	35	7	SS03M018	5mm	25	571.068	4mm	0,96
1831704	KM63XMZW1275Y	12	42	75	40	7	SS03M023	6mm	35	571.074	5mm	1,15
1831705	KM63XMZW1475Y	14	44	75	40	7	SS03M023	6mm	35	571.074	5mm	1,19
1831706	KM63XMZW1680Y	16	48	80	43	7	SS03M025	6mm	50	571.074	5mm	1,37
1982385	KM63XMZW1880Y	18	50	80	43	7	SS03M025	6mm	50	571.074	5mm	1,41
1714887	KM63XMZW2080Y	20	52	80	45	7	SS03M026	8mm	95	571.074	5mm	1,45
1714888	KM63XMZW2585Y	25	65	85	50	8	SS03M027	10mm	135	571.074	5mm	2,01
1714889	KM63XMZW3295Y	32	72	95	54	10	SS03M029	10mm	160	571.075	6mm	2,54

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw and stop screw.
Lock screw and stop screw wrenches are not included.

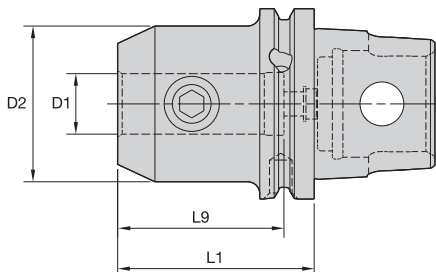


KM63XMZ Shank Tools

■ WN/EM • Whistle Notch and End Mill Adapter

order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	Nm	stop screw	wrench size stop screw	kg
2231550	KM63XMZWNE0680Y	6	25	80	32	8	SS03M012	3mm	7	571.060	2,5mm	0,88
2231551	KM63XMZWNE0880Y	8	28	80	32	8	SS03M014	4mm	15	571.067	3mm	0,94
2231552	KM63XMZWNE1080Y	10	35	80	37	8	SS03M018	5mm	25	571.068	4mm	1,07
2231593	KM63XMZWNE1280Y	12	42	80	42	8	SS03M023	6mm	35	571.074	5mm	1,24
2231594	KM63XMZWNE1480Y	14	44	80	42	8	SS03M023	6mm	35	571.074	5mm	1,29
2231595	KM63XMZWNE1680Y	16	48	80	45	8	SS03M025	6mm	50	571.074	5mm	1,39
2231596	KM63XMZWNE1880Y	18	50	80	45	8	SS03M025	6mm	50	571.074	5mm	1,44
2231597	KM63XMZWNE2080Y	20	52	80	47	8	SS03M026	8mm	95	571.074	5mm	1,49
2231598	KM63XMZWNE2580Y	25	65	80	52	8	SS03M027	10mm	135	571.074	5mm	1,85
2231599	KM63XMZWNE3280Y	32	72	80	56	8	SS03M029	10mm	160	571.074	5mm	2,10
2231600	KM63XMZWNE4095Y	40	80	95	67	8	SS03M029	10mm	160	571.074	5mm	2,75

NOTE: Do not overtighten lock screw; use torque recommendations above.
 Supplied with lock screw and stop screw.
 Lock screw and stop screw wrenches are not included.



■ EM • Metric



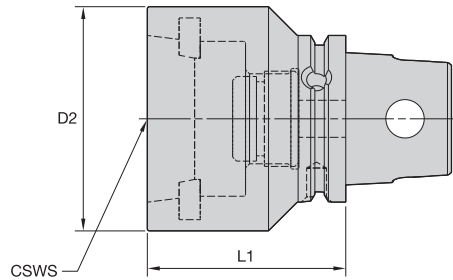
order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	Nm	kg
1621006	KM63XMZEM06100Y	6	25	100	40	SS03M012	3mm	7	0,98
1621010	KM63XMZEM08100Y	8	28	100	40	SS03M014	4mm	15	1,05
1621054	KM63XMZEM10100Y	10	35	100	45	SS03M018	5mm	25	1,22
1510191	KM63XMZEM1255Y	12	42	55	50	SS03M023	6mm	35	0,94
1511879	KM63XMZEM1660Y	16	48	60	53	SS03M025	6mm	50	1,09
1844636	KM63XMZEM1860Y	18	50	60	53	SS03M025	6mm	50	1,12
1511880	KM63XMZEM2065Y	20	52	65	55	SS03M026	8mm	95	1,21
1512091	KM63XMZEM2580Y	25	65	80	60	SS03M027	10mm	135	1,88
1714890	KM63XMZEM3290Y	32	72	90	65	SS03M029	10mm	160	2,38

■ EM • Inch



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
1723304	KM63XMZEM050216Y	1/2	1.38	2.165	1.97	ELS044038PKG	7/32	20	1.80
1516667	KM63XMZEM062236Y	5/8	1.63	2.362	2.09	ELS056050PKG	1/4	40	2.07
1516669	KM63XMZEM075256Y	3/4	1.75	2.559	2.22	ELS062050PKG	5/16	70	2.25
1516672	KM63XMZEM100315Y	1	2.00	3.150	2.46	ELS075056PKG	3/8	110	2.87
1516673	KM63XMZEM125335Y	1 1/4	2.50	3.346	2.51	ELS075062PKG	3/8	110	3.97
1831838	KM63XMZEM200492Y	2	3.75	4.921	3.53	ELS100088PKG	1/2	150	10.47

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.



■ **KR • Romicon Boring Head Adapter**

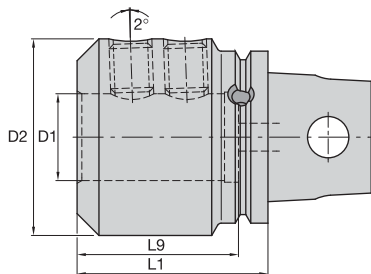
order number	catalog number	CSWS system size	D2	L1	kg
1831590	KM63XMZKR5060Y	KR50	65	60	1,40
1831589	KM63XMZKR6375Y	KR63	85	75	2,20

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

Supplied with lock screw.

Lock screw wrench not included.

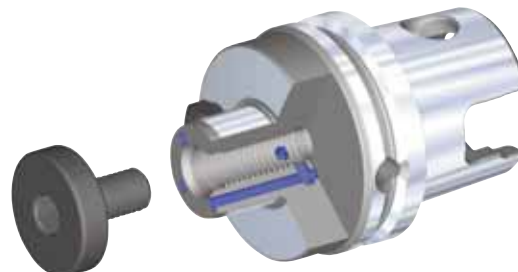
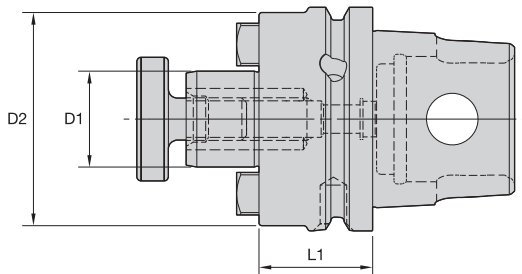
For a complete listing of Romicon boring adapters, see the Kennametal Innovations Master Catalog Cutting Tools 2013.



■ **DAI**



order number	catalog number	D1	D2	L1	L9	clamp screw	wrench size clamp screw	Nm	kg
1516811	KM63XMZDAI3270Y	32	72	70	59	SS03M026	8 mm	95	1,81
1516812	KM63XMZDAI40100Y	40	90	100	75	SS03M029	10 mm	160	4,30



■ SMC • Metric



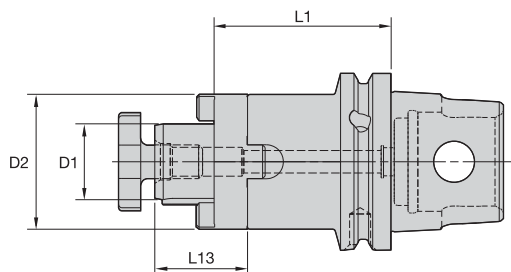
order number	catalog number	D1	D2	L1	lock screw	drive key	wrench size lock screw	kg
3950758	KM63XMZSMC16028MY	16	44	28	MS1294	KDK16M	6mm	0,78
3950759	KM63XMZSMC22028MY	22	49	28	MS1234	KDK22M	8mm	0,84
3950760	KM63XMZSMC27032MY	27	60	32	KLSS27M	KDK27M	10mm	1,05
3950761	KM63XMZSMC32040MY	32	78	40	KLSS32M	KDK32M	14mm	1,60

■ SMC/SM2C • Inch



order number	catalog number	D1	D2	L1	lock screw	drive key	wrench size lock screw	lbs
3950898	KM63XMZSMC050102Y	1/2	1.44	1.024	KLS05	KDK04	3/16	1.56
3950900	KM63XMZSM2C075102Y	3/4	1.46	1.024	KLS07	—	1/4	1.63
3950899	KM63XMZSMC075102Y	3/4	1.75	1.024	KLS07	KDK05	3/16	1.70
3950902	KM63XMZSM2C100126Y	1	2.19	1.260	KLS10	KDK06	5/16	2.19
3950901	KM63XMZSMC100126Y	1	2.75	1.260	KLS10	KDK06	5/16	2.49
3950903	KM63XMZSMC125157Y	1 1/4	2.88	1.575	KLS12	KDK08	5/16	3.35
3950904	KM63XMZSMC150177Y	1 1/2	3.69	1.770	KLS15	KDK10	3/8	5.11

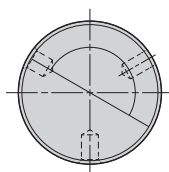
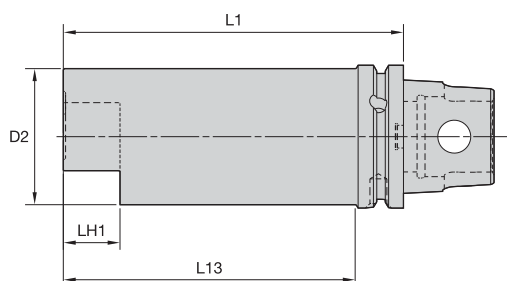
NOTE: Do not overtighten lock screw.
Supplied with lock screw and drive keys.
Interchangeable coolant-style lock screws are available and must be ordered separately; see page L38.
Lock screw wrench not included.



■ CS • Metric

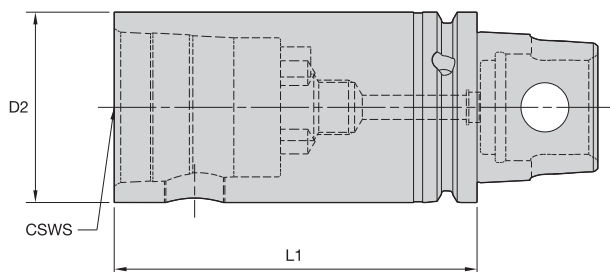
order number	catalog number	D1	D2	L1	L13	lock screw	lock screw	wrench size lock screw	wrench	kg
2231604	KM63XMZCS1663Y	16	32	63	17	MS1294	—	6mm	—	0,98
2231606	KM63XMZCS22110Y	22	50	110	19	MS1234	—	8mm	—	2,29
2231601	KM63XMZCS2228Y	22	50	28	19	MS1234	—	8mm	—	1,87
2231605	KM63XMZCS2263Y	22	50	63	19	MS1234	—	8mm	—	0,88
2231608	KM63XMZCS27110Y	27	63	110	21	—	KLS27M	—	SMW27M	1,70
2231602	KM63XMZCS2732Y	27	63	32	21	—	KLS27M	—	SMW27M	2,98
2231607	KM63XMZCS2763Y	27	63	63	21	—	KLS27M	—	SMW27M	3,46
2231610	KM63XMZCS32110Y	32	78	110	24	—	KLS32M	—	SMW32M	2,20
2231603	KM63XMZCS3240Y	32	78	40	24	—	KLS32M	—	SMW32M	1,10
2231609	KM63XMZCS3263Y	32	78	63	24	—	KLS32M	—	SMW32M	1,42

NOTE: Do not overtighten lock screw.
 Supplied with lock screw, drive ring, and key.
 Lock screw wrench not included.



■ GB • Gage Bar

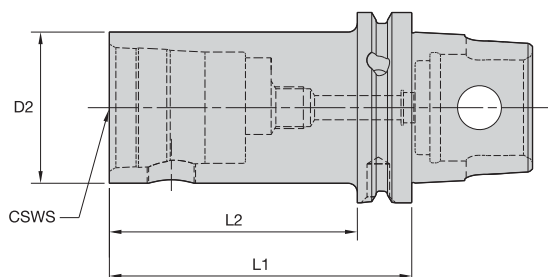
order number	catalog number	D2		L1		L13		LH1		kg	lbs
		mm	in	mm	in	mm	in	mm	in		
1797483	KM63XMZGB50200Y	50	1.97	200	7.87	178	7.00	20	.79	3,28	7.22
1661912	KM63XMZGB60150Y	60	2.36	150	5.91	129	5.07	25	.98	3,26	7.20



■ S • KM Extensions



order number	catalog number	CSWS system size	D2		L1		wrench size actuation screw	Nm	ft. lbs.	spare parts package	kg	lbs
			mm	in	mm	in						
1319536	KM63XMZS6380Y	KM63	63	2.480	80	3.150	12mm	47-54	35-40	KM63PKG3S	1,73	3.81
1511923	KM63XMZS63120Y	KM63	63	2.480	120	4.724	12mm	47-54	35-40	KM63PKG3S	2,68	5.92



■ S • KM Reducer



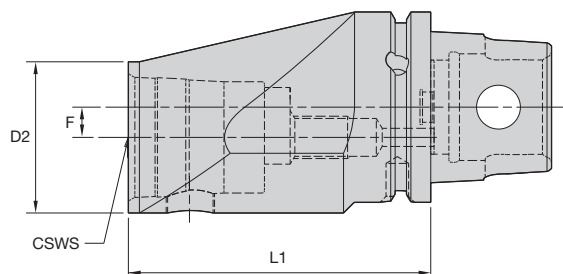
order number	catalog number	CSWS system size	D2		L1		L2		wrench size actuation screw	Nm	ft. lbs.	spare parts package	kg	lbs
			mm	in	mm	in	mm	in						
1512243	KM63XMZS3270Y	KM32	32	1.260	70	2.756	46	1.811	5mm	8-11	6-8	KM32PKG3S	0,91	2.00
1511925	KM63XMZS4080Y	KM40	40	1.575	80	3.150	59	2.323	6mm	12-16	9-12	KM40PKG3S	1,14	2.51
1831639	KM63XMZS5058Y	KM50	50	1.969	58	2.299	36	1.417	10mm	27-34	20-25	KM50PKG3S	0,87	1.91
1509861	KM63XMZS50100Y	KM50	50	1.969	100	3.937	79	3.110	10mm	27-34	20-25	KM50PKG3S	1,67	3.68

■ S • KM Reducer • Centerline



order number	catalog number	CSWS system size	D2		L1		wrench size actuation screw	Nm	ft. lbs.	spare parts package	kg	lbs
			mm	in	mm	in						
3306139	KM63XMZS5065Y	KM50	50	1.969	65	2.559	10 mm	27-34	20-25	KM50PKG3L	1,42	3.13

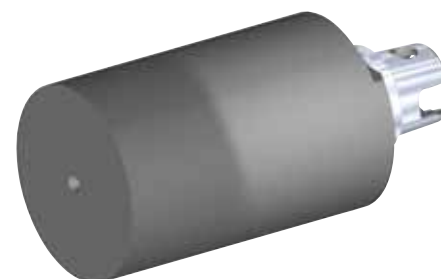
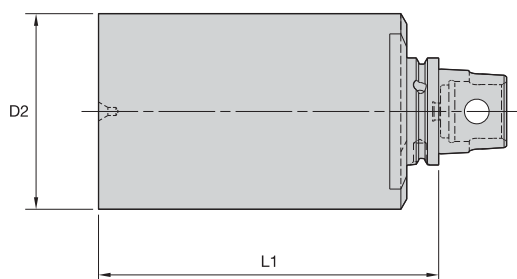
NOTE: Designed for centerline KM cutting units.



■ ES • KM Offset Reducer



order number	catalog number	CSWS system size	D2		L1		F		wrench size actuation screw	Nm ft. lbs.		spare parts package	kg	lbs
			mm	in	mm	in	mm	in						
1831587	KM63XMZES40110Y	KM40	40	1.575	110	4.331	18	.709	6mm	12-16	9-12	KM40PKG3S	2,38	5.25
1516814	KM63XMZES50100Y	KM50	50	1.969	100	3.937	10	.394	10mm	27-34	20-25	KM50PKG3S	2,21	4.87



■ BN • Blank

order number	catalog number	D2		L1		hardness range	kg	lbs
		mm	in	mm	in			
1831586	KM63XMZBN115200Y	115	4.528	200	7.874	32-38 RW C	15,21	33.54

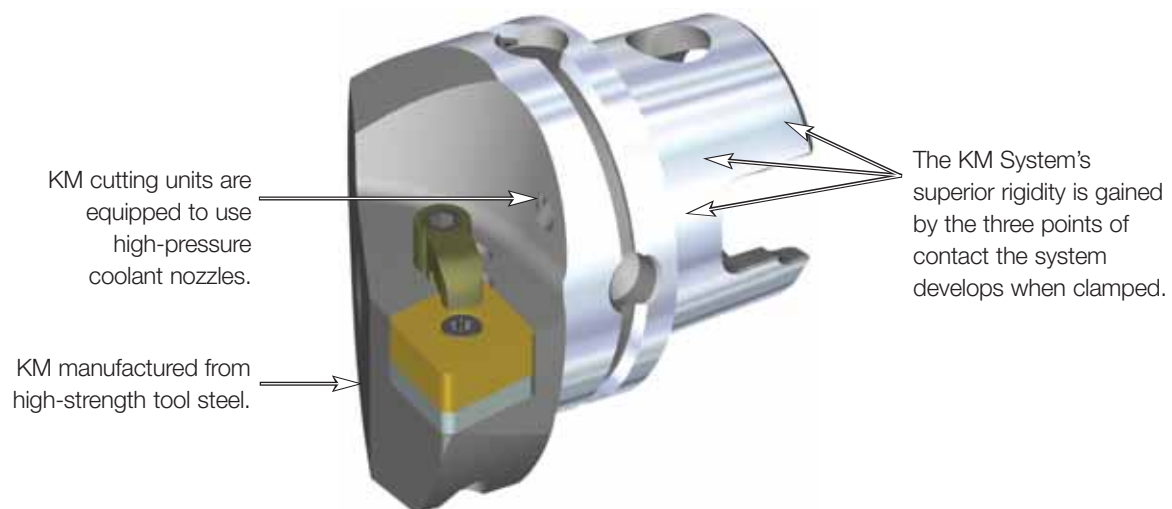
KM™ Quick Change Clamping System • KM80ATC™ Series

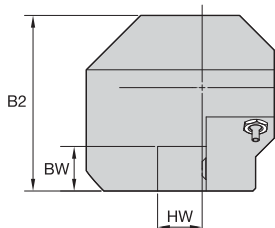
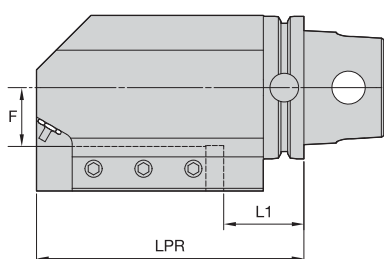
Primary Application

The KM Quick Change Clamping System is the best system on the market suitable for static, rotating, and multitasking operations. With its industry-leading design, the KM Quick Change System provides greater clamping forces than other quick-change systems. The KM Quick Change System gives you the flexibility to use KM on any application within your shop.

Features and Benefits

- KM80ATC is designed to be used on MAG Corporation VTL machines.
- KM80ATC is your solution for multitasking.





■ STA • Straight Side Mount • Metric

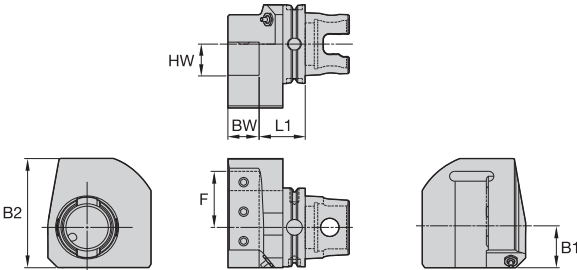
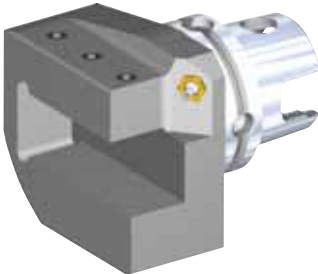


order number	catalog number	L1	LPR	F	HW	BW	B2	cup point socket set screw	nozzle	Nm	kg
right hand											
3545087	KM80ATCSTAR2525	45	150	33	25	25	99	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	9,51
3545089	KM80ATCSTAR3232	45	150	25	32	32	98	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	8,98
left hand											
3545088	KM80ATCSTAL2525	45	150	33	25	25	99	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	9,51
3545090	KM80ATCSTAL3232	45	150	25	32	32	98	MS1430	PMT04526 COOLANT NOZZLE SPRAY	55	8,98

■ STA • Straight Side Mount • Inch



order number	catalog number	L1	LPR	F	HW	BW	B2	cup point socket set screw	nozzle	ft. lbs.	lbs
right hand											
3480215	KM80ATCSTAR20	1.693	5.906	1.059	1.250	1.250	3.904	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	20.17
2601528	KM80ATCSTAR24	1.480	6.693	.559	1.500	1.500	3.654	MS1954	PMT04526 COOLANT NOZZLE SPRAY	90	21.44
left hand											
2628561	KM80ATCSTAL20	1.693	5.906	1.059	1.250	1.250	3.904	MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	20.14
2601530	KM80ATCSTAL24	1.480	6.693	.559	1.500	1.500	3.654	MS1954	PMT04526 COOLANT NOZZLE SPRAY	90	21.44



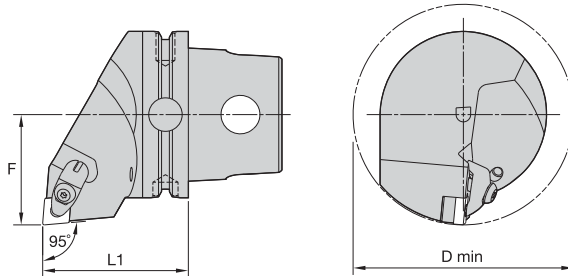
■ **ETA • Straight End Mount • Inch**



order number	catalog number	L1	B1	F	HW	BW	B2	cup point socket set screw	nozzle	ft. lbs.	lbs
	right hand										
2203618	KM80ATCETAR20	1.846	1.614	2.244	1.25	1.25	4	DWG MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	10.32
	left hand										
2203619	KM80ATCETAL20	1.846	1.614	2.244	1.25	1.25	4	DWG MS1430	PMT04526 COOLANT NOZZLE SPRAY	40	10.32



KM80ATC Cutting Units

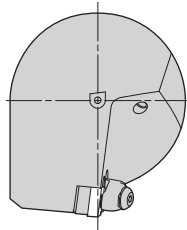
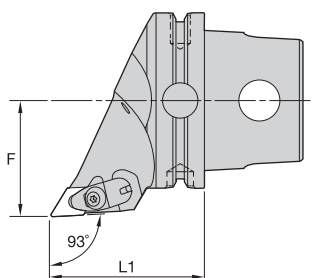


■ DCLN 95°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
	right hand								
2036330	KM80ATCDCLNR12KC04	70	2.756	53	2.087	106	4.17	CN..120408/CN..432	2,13
2036332	KM80ATCDCLNR16KC06	70	2.756	53	2.086	106	4.17	CN..160612/CN..543	2,24
	left hand								
2036331	KM80ATCDCLNL12KC04	70	2.756	53	2.087	106	4.17	CN..120408/CN..432	2,13
2036406	KM80ATCDCLNL16KC06	70	2.756	53	2.086	106	4.17	CN..160612/CN..543	2,24

■ Spare Parts

catalog number	shim	shim screw	clamp assembly	pin
right hand				
KM80ATCDCLNR12KC04	ICSN443	KMSP415IP	CM234R ASSY	SSP025016M
KM80ATCDCLNR16KC06	ICSN543	KMSP515IP	CM209R ASSY	SSP025018M
left hand				
KM80ATCDCLNL12KC04	ICSN443	KMSP415IP	CM234R ASSY	SSP025016M
KM80ATCDCLNL16KC06	ICSN543	KMSP515IP	CM209R ASSY	SSP025018M

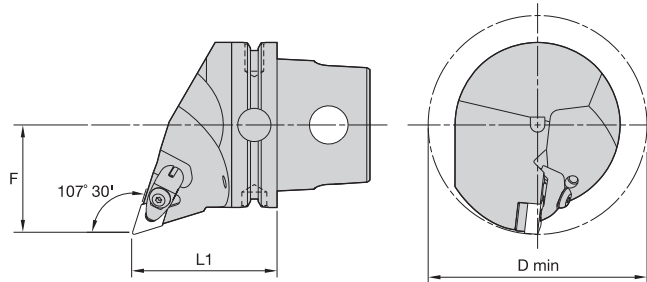


■ DDJN 93°

order number	catalog number	L1		F		gage insert	kg
		mm	in	mm	in		
	right hand						
2220270	KM80ATCDDJNR15KC04	70	2.7560	53	2.087	DN..150408/DN..432	1,90
2036377	KM80ATCDDJNR15KC06	70	2.7560	53	2.087	DN..150608/DN..442	1,90
	left hand						
2220271	KM80ATCDDJNL15KC04	70	2.7560	53	2.087	DN..150408/DN..432	1,90
2036378	KM80ATCDDJNL15KC06	70	2.7560	53	2.087	DN..150608/DN..442	1,90

■ Spare Parts

catalog number	shim	shim screw	clamp assembly	pin
right hand				
KM80ATCDDJNR15KC04	IDSN443	KMSP415IP	CM234R ASSY	SSP025016M
KM80ATCDDJNR15KC06	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M
left hand				
KM80ATCDDJNL15KC04	IDSN443	KMSP415IP	CM234R ASSY	SSP025016M
KM80ATCDDJNL15KC06	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M

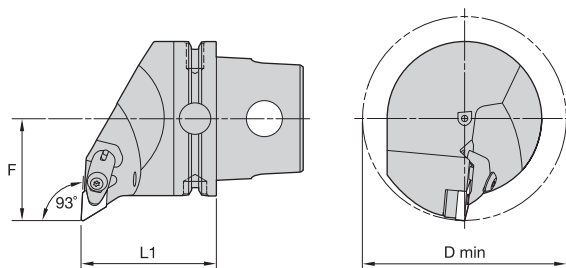


■ DDQN 107° 30'

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
	right hand								
2220278	KM80ATCDDQNR15KC04	70	2.756	53	2.087	106	4.17	DN..150408/DN..432	2,07
2036379	KM80ATCDDQNR15KC06	70	2.756	53	2.087	106	4.17	DN..150608/DN..442	2,06
	left hand								
2220279	KM80ATCDDQNL15KC04	70	2.756	53	2.087	106	4.17	DN..150408/DN..432	2,07
2036380	KM80ATCDDQNL15KC06	70	2.756	53	2.087	106	4.17	DN..150608/DN..442	2,06

■ Spare Parts

catalog number	shim	shim screw	clamp assembly	pin
right hand				
KM80ATCDDQNR15KC04	IDSN443	KMSP415IP	CM234R ASSY	SSP025016M
KM80ATCDDQNR15KC06	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M
left hand				
KM80ATCDDQNL15KC04	IDSN443	KMSP415IP	CM234R ASSY	SSP025016M
KM80ATCDDQNL15KC06	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M

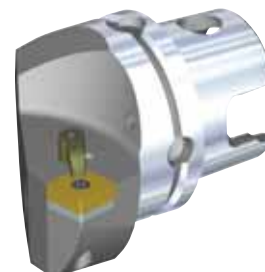
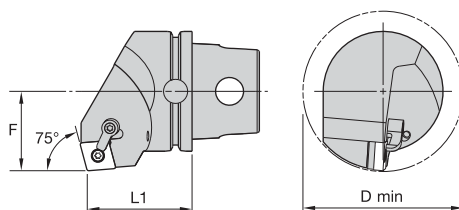
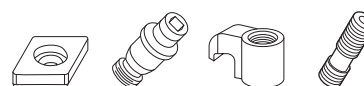


■ DDUN 93°

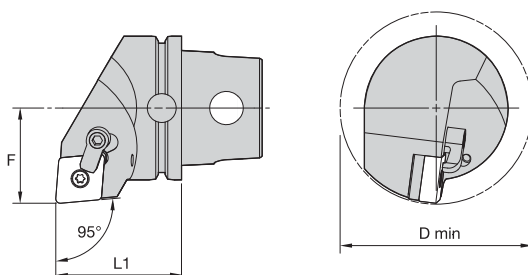
order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
	right hand								
2220286	KM80ATCDDUNR15KC04	70	2.756	53	2.087	106	4.17	DN..150408/DN..432	2,23
2036381	KM80ATCDDUNR15KC06	70	2.756	53	2.087	106	4.17	DN..150608/DN..442	2,23
	left hand								
2220287	KM80ATCDDUNL15KC04	70	2.756	53	2.087	106	4.17	DN..150408/DN..432	2,23
2036382	KM80ATCDDUNL15KC06	70	2.756	53	2.087	106	4.17	DN..150608/DN..442	2,23

■ Spare Parts

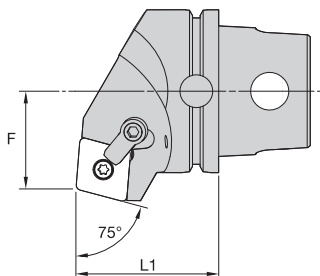
catalog number				
	shim	shim screw	clamp assembly	pin
right hand				
KM80ATCDDUNR15KC04	IDSN443	KMSP415IP	CM234R ASSY	SSP025016M
KM80ATCDDUNR15KC06	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M
left hand				
KM80ATCDDUNL15KC04	IDSN443	KMSP415IP	CM234R ASSY	SSP025016M
KM80ATCDDUNL15KC06	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M


■ MCKN 75°


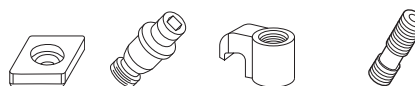
		L1		F		D min								
order number	catalog number	mm	in	mm	in	mm	in	gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
2036393	KM80ATCMCKNR19	70	2.756	53	2.087	106	4.173	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,40	5.30
3758113	KM80ATCMCKNR25	70	2.756	53	2.087	106	4.173	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,54	5.61
1961291	KM80ATCMCKNL19	70	2.756	53	2.087	106	4.173	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,41	5.30
3684524	KM80ATCMCKNL25	70	2.756	53	2.087	106	4.173	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,54	5.61


■ MCLN 95°

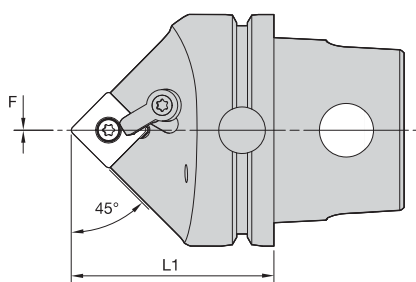

		L1		F		D min								
order number	catalog number	mm	in	mm	in	mm	in	gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
2036373	KM80ATCMCLNR19	70	2.756	53	2.087	106	4.173	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,19	4.83
2036374	KM80ATCMCLNR25	70	2.756	53	2.087	106	4.173	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,20	4.84
1958408	KM80ATCMCLNL19	70	2.756	53	2.087	106	4.173	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,19	4.83
1958411	KM80ATCMCLNL25	70	2.756	53	2.087	106	4.173	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,20	4.84



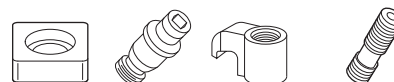
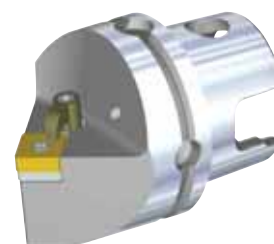
■ MCRN 75°



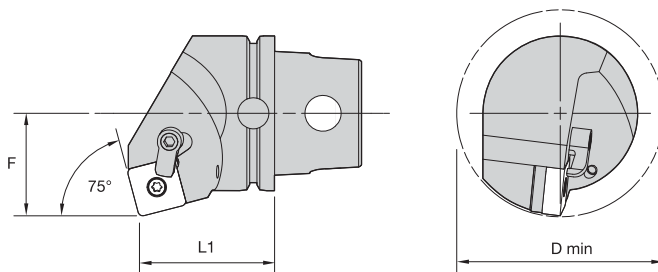
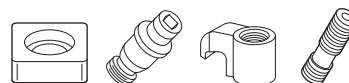
order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
	right hand											
2036375	KM80ATCMCRNR19	70	2.756	48	1.890	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,29	5.06
2036376	KM80ATCMCRNR25	70	2.756	48	1.890	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,31	5.09
	left hand											
1960916	KM80ATCMCRNL19	70	2.756	48	1.890	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	2,29	5.06
2033887	KM80ATCMCRNL25	70	2.756	48	1.890	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	2,31	5.09



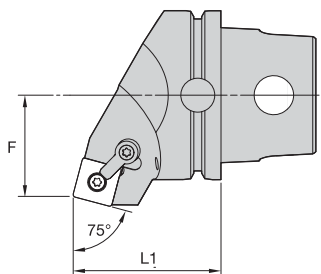
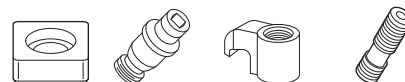
■ MSDN 45°



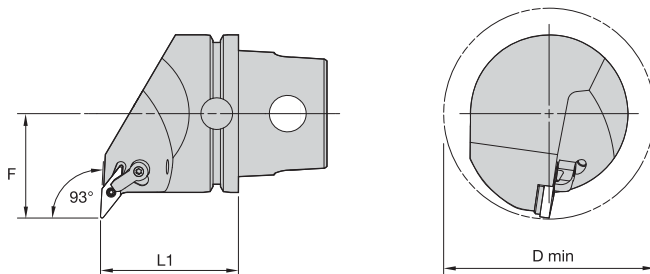
order number	catalog number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
2036383	KM80ATCMSDNN19	70	2.756	0	.000	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	1,88	4.14
2036384	KM80ATCMSDNN25	70	2.756	0	.000	SN..250924/SN..866	ISSN846	KLM810	CKM24	STCM19	1,79	3.95


■ MSKN 75°


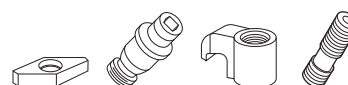
order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
	right hand													
2036385	KM80ATCMSKNR19	70	2.756	53	2.087	106	4.173	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	2,52	5.55
2036387	KM80ATCMSKNR25	70	2.756	53	2.087	106	4.173	SN..250924/SN..866	ISSN846	KLM810	CKM24	STCM19	2,47	5.44
	left hand													
2036386	KM80ATCMSKNL19	70	2.756	53	2.087	106	4.173	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	2,52	5.55
1960917	KM80ATCMSKNL25	70	2.756	53	2.087	106	4.173	SN..250924/SN..866	ISSN846	KLM810	CKM24	STCM19	2,53	5.57


■ MSRN 75°


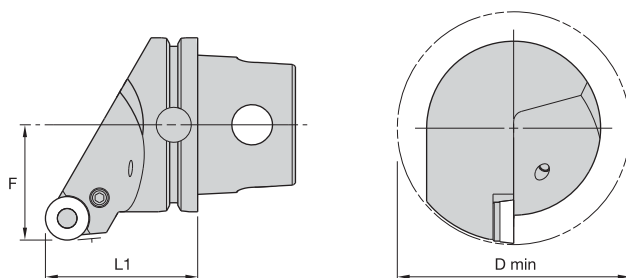
		L1		F								
order number	catalog number	mm	in	mm	in	gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
2036388	right hand KM80ATCMSRNR19	70	2.756	48	1.890	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	2,11	4.66
2036390	left hand KM80ATCMSRNR25	70	2.756	48	1.890	SN..250924/SN..866	ISSN846	KLM810	CKM24	STCM19	2,08	4.59
2036389	KM80ATCMSRNL19	70	2.756	48	1.890	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	2,11	4.66
1961718	KM80ATCMSRNL25	70	2.756	48	1.890	SN..250924/SN..866	ISSN846	KLM810	CKM24	STCM19	2,08	4.59



■ MVUN 93°



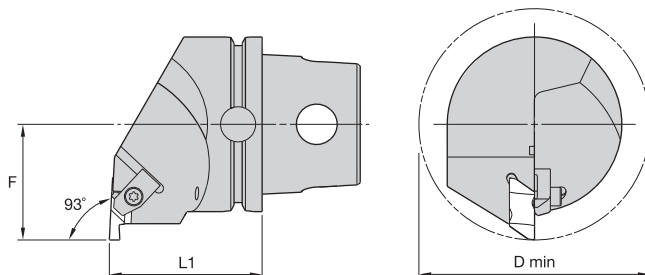
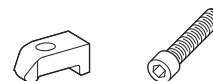
order number	catalog number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
2036391	right hand KM80ATCMVUNR16	70	2.756	53	2.087	106	4.173	VN..160408/VN..332	IVSN322	KLM34L	CKM22	STCM20	2,23	4.92
1961335	left hand KM80ATCMVUNL16	70	2.756	53	2.087	106	4.173	VN..160408/VN..332	IVSN322	KLM34L	CKM22	STCM20	2,23	4.92



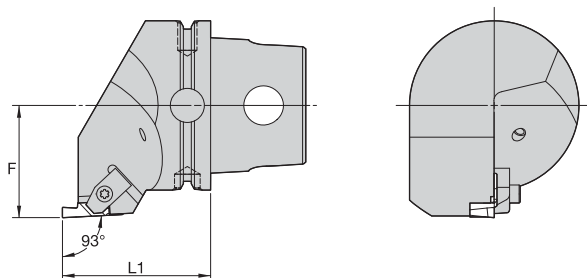
■ PRGC 0°



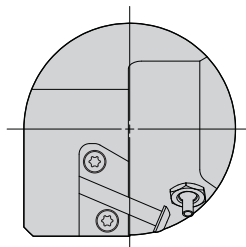
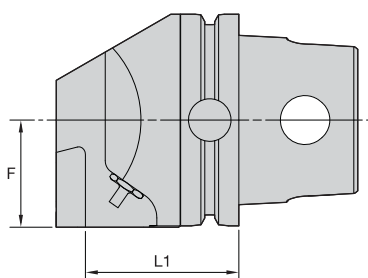
order number	catalog number	L1		F		D min		gage insert	shim	clamp screw	clamp stud	kg	lbs
		mm	in	mm	in	mm	in						
1961340	KM80ATCPRGCL20	70	2.756	53	2.087	106	4.173	RC..2006M0	169.333	121.820	119.073	1,87	4.12
3897198	KM80ATCPRGCL25	70	2.756	53	2.087	—	—	RC..2507M0..	169.337	121.820	118.404	2,08	4.58
3897200	KM80ATCPRGCL32	80	3.150	53	2.087	—	—	RC..3209M0..	169.339	121.030	118.604	2,66	5.86
2203621	KM80ATCPRGCR20	70	2.756	53	2.087	106	4.173	RC..2006M0	169.333	121.820	119.073	1,87	4.12
3897199	KM80ATCPRGCR25	70	2.756	53	2.087	—	—	RC..2507M0..	169.337	121.820	118.404	2,08	4.58
3897201	KM80ATCPRGCR32	80	3.150	53	2.087	—	—	RC..3209M0..	169.339	121.030	118.604	2,66	5.86


■ NE 93°


order number	catalog number	L1		F		D min		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in					
2036394	right hand KM80ATCNER3	70	2.756	53	2.087	106	4.173	NG3L	CM73	MS2091	2,12	4.67
2036395	KM80ATCNER4	70	2.756	53	2.087	106	4.173	NG4L	CM73	MS2091	2,19	4.83
2036396	KM80ATCNER5	70	2.756	53	2.087	106	4.173	NG5L	CM81	MS1490	2,26	4.99
2036397	KM80ATCNER6 left hand	70	2.756	53	2.087	106	4.173	NG6L	CM121	MS2091	2,15	4.74
1961333	KM80ATCNEL3	70	2.756	53	2.087	106	4.173	NG3R	CM72	MS2091	2,12	4.67
1960915	KM80ATCNEL4	70	2.756	53	2.087	106	4.173	NG4R	CM72	MS2091	2,19	4.83
2036400	KM80ATCNEL5	70	2.756	53	2.087	106	4.173	NG5R	CM80	MS1490	2,26	4.99
2036398	KM80ATCNEL6	70	2.756	53	2.087	106	4.173	NG6R	CM120	MS2091	2,15	4.74


■ NS 93°


order number	catalog number	L1		F		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in					
3330949	right hand KM80ATCNSR3	70	2.756	53	2.087	NG3R	CM72	MS1489	2,16	4.77
2203622	KM80ATCNSR4 left hand	70	2.756	53	2.087	NG4R	CM72	MS2091	2,17	4.77
2398753	KM80ATCNLS3	70	2.756	53	2.087	NG3L	CM73	MS1489	2,16	4.77
2044321	KM80ATCNLS4	70	2.756	53	2.087	NG4L	CM73	MS2091	2,17	4.77

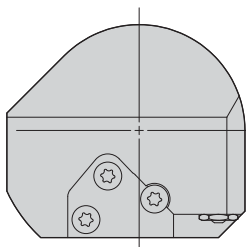
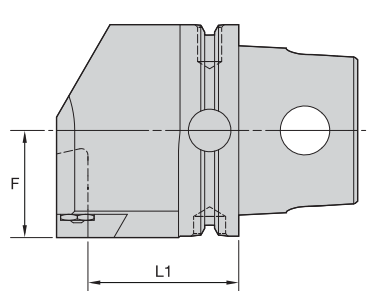


■ KGME • End Mount



order number	catalog number	L1		F		cartridge size	insert screw	button-head cap screw	nozzle	kg	lbs
		mm	in	mm	in						
	right hand										
2036392	KM80ATCKGMER50	58	2.283	41	1.594	50	MS1162	MS2002	PMT04526 COOLANT NOZZLE SPRAY	2,45	5.39
	left hand										
1961339	KM80ATCKGMEL50	58	2.283	41	1.594	50	MS1162	MS2002	PMT04526 COOLANT NOZZLE SPRAY	2,45	5.39

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use left-hand blades.

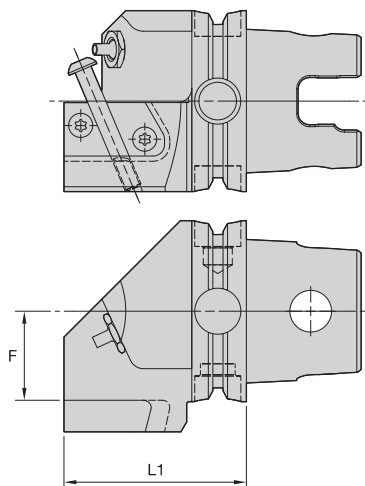


■ KGME • End Mount



order number	catalog number	L1		F		cartridge size	blade screw	nozzle	kg	lbs
		mm	in	mm	in					
	right hand									
3588800	KM80ATCKGMER65	57	2.24	40,5	1.595	65	MS1163	PMT04525	3,11	6.86
	left hand									
3588804	KM80ATCKGMEL65	57	2.24	40,5	1.595	65	MS1163	PMT04525	3,11	6.86

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use left-hand blades.

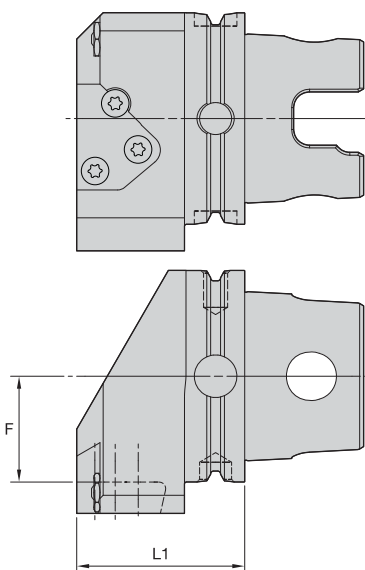


■ KGMS • Side Mount



order number	catalog number	L1		F		cartridge size	blade screw	nozzle	clamp screw	kg	lbs
		mm	in	mm	in						
3138942	KM80ATCKGMSR50	right hand				50	MS1162	PMT04526 COOLANT NOZZLE SPRAY	MS2002	2,43	5.36
		66,5	2.618	41	1.614						
3138941	KM80ATCKGMSL50	left hand				50	MS1162	PMT04526 COOLANT NOZZLE SPRAY	MS2002	2,43	5.36
		66,5	2.618	41	1.614						

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use right-hand blades.

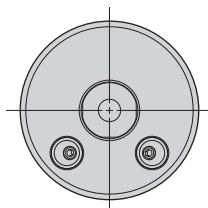
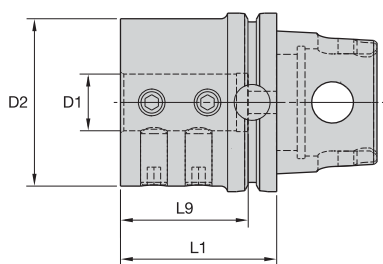


■ KGMS • Side Mount

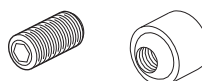


order number	catalog number	L1		F		cartridge size	blade screw	nozzle	kg	lbs
		mm	in	mm	in					
	right hand									
3588790	KM80ATCKGMSR65	63,5	2.500	40	1.575	65	MS1163	PMT04525	2,81	6.20
	left hand									
3588795	KM80ATCKGMSL65	63,5	2.500	40	1.575	65	MS1163	PMT04525	2,81	6.20

NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalog Cutting Tools 2013.
Right-hand cutting units use right-hand blades.

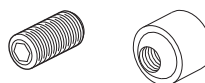


■ BA • Boring Bar Adapter • Internal and External Coolant • Metric



order number	catalog number	D1	D2	L1	L9	lock screw	nozzle	wrench size clamp screw	Nm	kg
3896952	KM80ATCBA40105M	40	80	105	76	MS1947	PWZ1012	8mm	125	3,58
3897203	KM80ATCBA50130M	50	90	130	95	MS1947	PWZ1012	8mm	125	4,96

■ BA • Boring Bar Adapter • Internal and External Coolant • Inch



order number	catalog number	D1	D2	L1	L9	lock screw	nozzle	wrench size clamp screw	ft. lbs.	lbs
2024399	KM80ATCBA100276	1	2.95	2.756	2.24	—	PWZ1012	6mm	30	5.57
2024400	KM80ATCBA125295	1 1/4	3.15	2.953	2.48	—	PWZ1012	6mm	30	6.11
2024401	KM80ATCBA150413	1 1/2	3.15	4.134	2.99	MS1947	PWZ1012	8mm	90	8.04
2024402	KM80ATCBA200512	2	3.54	5.118	3.98	MS1947	PWZ1012	8mm	90	10.57

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.
For boring bar reducers, see page A570.



More than just the right tool • the ultimate solution.

That's **Beyond BLAST™**



That's **Different Thinking.**

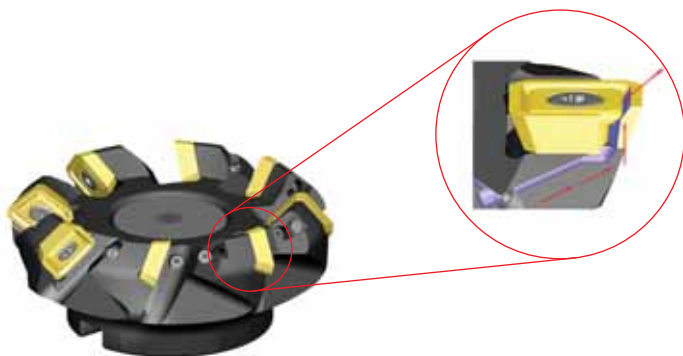
At Kennametal, innovation follows vision. Our revolutionary products and services are inspired by asking “what if?” The solutions that follow — like our Beyond BLAST through-coolant inserts — deliver remarkable results in the world’s most demanding machining environments.

A cutting-edge insert that delivers coolant precisely at the cutting edge. Now that’s Different Thinking. That’s Kennametal.

To learn more about your productivity gains using Beyond BLAST technology, visit www.kennametal.com.

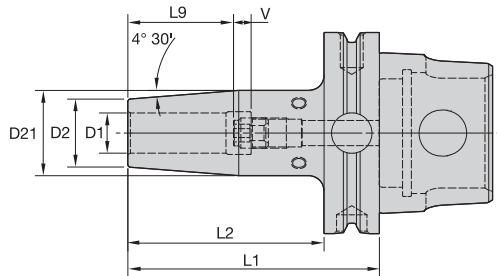
Milling

- Beyond BLAST technology uses low-pressure conditions to offer many of the high-pressure performance benefits.
- Delivers superior performance on titanium, using either high- or low-pressure coolant systems.
- Effective thermal management results in reduced cutting temperatures, improved lubricity, superior chip control, and longer tool life.
- Beyond BLAST for milling increases tool life by up to 300% compared with conventional coolant delivery systems.



beyond™ BLAST™

- 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	
10	h6	0,000/-0,009
12, 14, 16, & 18	h6	0,000/-0,011
20 & 25	h6	0,000/-0,013
32, 40, & 50	h6	0,000/-0,016



■ HPV TT • Metric



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	kg
3661841	KM80ATCHPVTT10090M	10	24	32	90	68	31	10	TTSS08014M	4mm	1,47
3661842	KM80ATCHPVTT10170M	10	24	32	170	63	31	10	TTSS08014M	4mm	2,02
3662743	KM80ATCHPVTT12095M	12	24	32	95	73	36	10	TTSS10014M	5mm	1,48
3662744	KM80ATCHPVTT12160M	12	24	32	160	63	36	10	TTSS10014M	5mm	1,93
3662745	KM80ATCHPVTT14095M	14	27	34	95	73	36	10	TTSS10014M	5mm	1,54
3662746	KM80ATCHPVTT16100M	16	27	34	100	78	39	10	TTSS12014M	6mm	1,55
3662747	KM80ATCHPVTT18100M	18	33	42	100	78	39	10	TTSS12014M	6mm	1,75
3662748	KM80ATCHPVTT18160M	18	33	42	160	70	39	10	TTSS12014M	6mm	2,45
3662749	KM80ATCHPVTT20105M	20	33	42	105	83	41	10	TTSS16014M	8mm	1,77
3662750	KM80ATCHPVTT25115M	25	44	53	115	93	47	10	TTSS16014M	8mm	2,34
3662751	KM80ATCHPVTT32120M	32	44	53	120	98	51	10	TTSS16014M	8mm	2,26
3662752	KM80ATCHPVTT40130M	40	60	61	130	108	51	10	TTSS20014M	10mm	3,47
3662753	KM80ATCHPVTT50140M	50	69	79	140	118	56	10	TTSS20014M	10mm	4,28

(continued)

(HPV TT continued)

Cutting Tool Shank Requirements inch (industry standard)

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

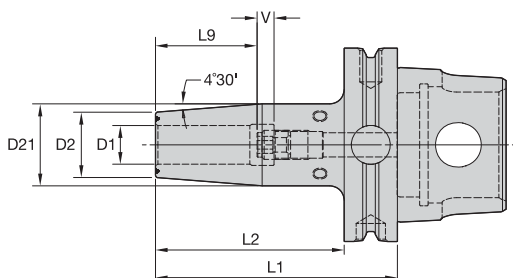
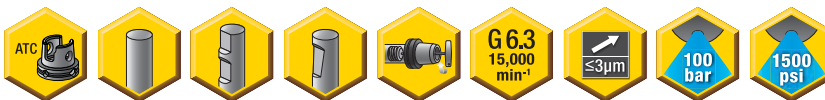
■ HPV TT • Inch



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	lbs
3599309	KM80ATCHPVTT031335	5/16	.83	1.06	3.347	2.48	1.02	.39	TTSS06014M	3mm	3.03
3599310	KM80ATCHPVTT038630	3/8	.95	1.26	6.299	2.48	1.22	.39	TTSS08014M	4mm	4.29
3599311	KM80ATCHPVTT044374	7/16	.95	1.26	3.740	2.87	1.42	.39	TTSS10014M	5mm	3.28
3599304	KM80ATCHPVTT050374	1/2	.95	1.26	3.740	2.87	1.42	.39	TTSS10014M	5mm	3.25
3594191	KM80ATCHPVTT056374	9/16	1.06	1.34	3.740	2.87	1.42	.39	TTSS10014M	5mm	3.38
3599305	KM80ATCHPVTT062394	5/8	1.06	1.34	3.937	3.07	1.54	.39	TTSS12014M	6mm	3.41
3594317	KM80ATCHPVTT062850	5/8	1.06	1.34	8.500	2.48	1.54	.39	TTSS12014M	6mm	5.65
3594316	KM80ATCHPVTT075413	3/4	1.30	1.65	4.134	3.27	1.61	.39	TTSS16014M	6mm	3.93
3599306	KM80ATCHPVTT075630	3/4	1.30	1.65	6.299	2.76	1.61	.39	TTSS16014M	8mm	5.35
3599307	KM80ATCHPVTT088413	7/8	1.30	1.65	4.134	3.27	1.61	.39	TTSS16014M	8mm	3.84
3594315	KM80ATCHPVTT100453	1	1.73	2.08	4.528	3.66	1.85	.39	TTSS16014M	8mm	5.14
3594313	KM80ATCHPVTT125472	1 1/4	1.73	2.08	4.724	3.86	2.01	.39	TTSS16014M	8mm	4.99
3594314	KM80ATCHPVTT150512	1 1/2	2.36	2.75	5.118	4.25	2.01	.39	TTSS20014M	10mm	7.78
3599308	KM80ATCHPVTT200551	2	2.72	3.11	5.512	4.65	2.20	.39	TTSS20014M	10mm	9.37

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.
 Shrink Fit accessories, see page L12–L13.
 Optional M6~1.0P x 5 lg fine balancing screw set (10 pieces) is available.
 Order number is MS1276PKG and must be ordered separately.

- 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



■ HPV TT HT • Metric



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	kg
3662754	KM80ATCHPVTTH12095M	12	24	32	95	73	36	10	TTSS10014M	5mm	1,48
3662755	KM80ATCHPVTTH12160M	12	24	32	160	63	36	10	TTSS10014M	5mm	1,96
3662756	KM80ATCHPVTTH14095M	14	27	34	95	73	36	10	TTSS10014M	5mm	1,54
3662757	KM80ATCHPVTTH16100M	16	27	34	100	78	39	10	TTSS12014M	6mm	1,55
3662758	KM80ATCHPVTTH18100M	18	33	42	100	78	39	10	TTSS12014M	6mm	1,75
3662759	KM80ATCHPVTTH18160M	18	33	42	160	70	39	10	TTSS12014M	6mm	2,45
3662760	KM80ATCHPVTTH20105M	20	33	42	105	83	41	10	TTSS16014M	8mm	1,77
3662761	KM80ATCHPVTTH25115M	25	44	53	115	93	47	10	TTSS16014M	8mm	2,34
3662762	KM80ATCHPVTTH32120M	32	44	53	120	98	51	10	TTSS16014M	8mm	2,26

(continued)

(HPV TT HT continued)

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

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

■ HPV TT HT • Inch



order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	lbs
3598813	KM80ATCHPVTTHT050374	1/2	.95	1.26	3.740	2.87	1.42	.39	TTSS10014M	5mm	3.25
3598814	KM80ATCHPVTTHT056374	9/16	1.06	1.34	3.740	2.87	1.42	.39	TTSS10014M	5mm	3.38
3598815	KM80ATCHPVTTHT062394	5/8	1.06	1.34	3.937	3.07	1.54	.39	TTSS12014M	6mm	3.41
3598816	KM80ATCHPVTTHT062850	5/8	1.06	1.34	8.500	2.48	1.54	.39	TTSS12014M	6mm	5.65
3598817	KM80ATCHPVTTHT075413	3/4	1.30	1.65	4.134	3.27	1.61	.39	TTSS16014M	8mm	3.93
3598818	KM80ATCHPVTTHT075630	3/4	1.30	1.65	6.299	2.76	1.61	.39	TTSS16014M	8mm	5.35
3598819	KM80ATCHPVTTHT088413	7/8	1.30	1.65	4.134	3.27	1.61	.39	TTSS16014M	8mm	3.84
3598820	KM80ATCHPVTTHT100453	1	1.73	2.08	4.528	3.66	1.85	.39	TTSS16014M	8mm	5.14
3598821	KM80ATCHPVTTHT125472	1 1/4	1.73	2.08	4.724	3.86	2.01	.39	TTSS16014M	8mm	4.99

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.

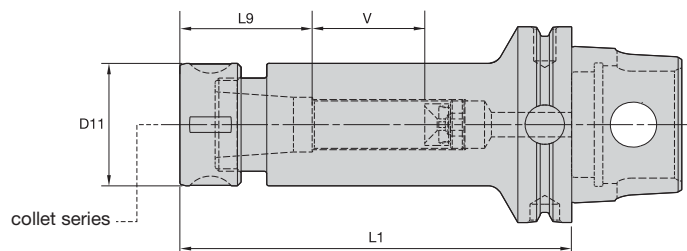
Adjusting stop screw gage, see page M81.

Shrink Fit accessories, see page L12–L13.

Optional M6~1.0P x 5 lg fine-balancing screw set (10 pieces) is available.

Order number is MS1276PKG and must be ordered separately.

- 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

■ TG • Single-Angle Collet Chucks

order number	catalog number	collet series	D11		L1		L9		V		kg	lbs
			mm	in	mm	in	mm	in	mm	in		
3138953	KM80ATCTG075160	TG75	50	1.97	160	6.299	53	2.09	47	1.85	2,96	6.52
2022194	KM80ATCTG100394	TG100	60	2.36	100	3.937	70	2.75	—	—	2,32	5.11
2022195	KM80ATCTG150492	TG150	85	3.35	125	4.921	83	3.27	—	—	4,31	9.50

■ Spare Parts



catalog number	locknut	wrench	stop screw	wrench size stop screw	coolant cap	Nm	ft. lbs.
KM80ATCTG075160	LNA075M	HSW45M	SS081041G	4mm & 5/32	SSCC081	108-136	80-100
KM80ATCTG100394	LNA100M	HSW58M	—	—	—	163-203	120-150
KM80ATCTG150492	LNA150M	HSW80M	—	—	—	217-271	160-200

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.

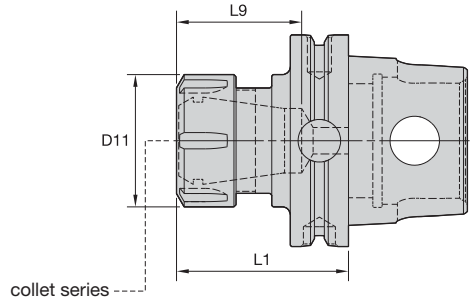
Stop screw coolant caps are available and must be ordered separately; see pages L34–L35.

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.

- Grip (2:1 advantage).



KM80ATC Shank Tools



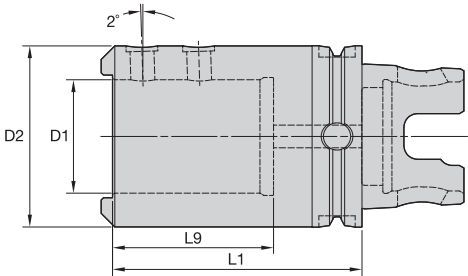
ER collet series	Collet Capacity			
	mm		inch	
	min	max	min	max
ER32	2,0	20,0	.08	.81
ER40	3,0	26,0	.12	1.00

■ ER • Single-Angle Collet Chucks



order number	catalog number	collet series	D11		L1		L9		locknut	wrench				
			mm	in	mm	in	mm	in			Nm	ft. lbs.	kg	lbs
1953471	KM80ATCER3265	ER32	50	1.97	65	2.559	46,0	1.81	LNSER32M	ER32WM	136	100	1,45	3.20
2022196	KM80ATCER4090	ER40	50	1.97	90	3.543	70,3	2.77	LNSER40M	ER40WM	176	130	2,09	4.61

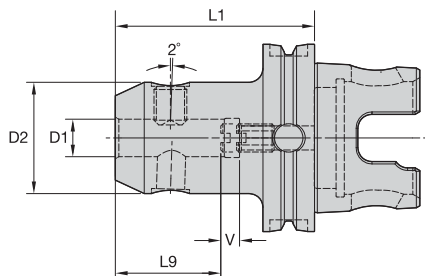
NOTE: Collet must be loaded into locknut first. Before loading into the chuck body, insert the cutting tool, then tighten to the recommended tightening torque.
 Collet chuck technical section, see page M98.
 Supplied with locknut.
 Locknut wrench must be ordered separately.
 Interchangeable coolant-style locknuts and coolant disks are available and must be ordered separately; see page L19.
 ER standard straight-bore collets, see page J50.
 ER tap collets, see pages J58–J59.
 ER TCT tension-only tap collets, see page J60.



WD • Drill Adapters with Drive



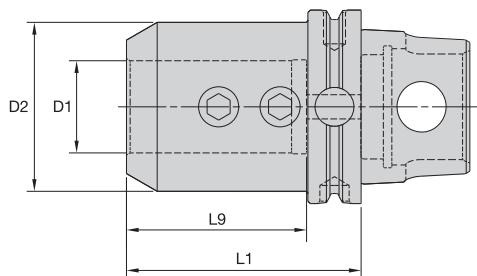
order number	catalog number	D1		L9		D2		L1		cup point socket set screw	wrench size stop screw	kg	lbs
		mm	in	mm	in	mm	in	mm	in				
3891593	KM80ATCWD32090M	32	1.260	61	2.400	62	2.435	90,0	3.543	SS03M023	6 mm	2,37	5.23
3891594	KM80ATCWD40100M	40	1.575	71	2.800	70	2.750	100,0	3.937	SS03M023	6 mm	2,80	6.18
3138896	KM80ATCWD50110M	50	1.969	71	2.795	80	3.144	110,0	4.331	SS03M023	6 mm	3,51	7.73



■ WN/EM • Whistle Notch/End Mill Combination Adapter

order number	catalog number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	stop screw	stop screw wrench size	Nm	kg
3901247	KM80ATCWNE06065M	6	25	65	30	10	SS03M012	3mm	571.060	2,5mm	7	1,29
3901248	KM80ATCWNE08065M	8	28	65	30	10	SS03M014	4mm	571.067	3mm	15	1,33
3901249	KM80ATCWNE10075M	10	35	75	35	10	SS03M018	5mm	571.068	4mm	25	1,49
3901250	KM80ATCWNE12080M	12	42	80	40	10	SS03M023	6mm	571.074	5mm	35	1,68
3901251	KM80ATCWNE14080M	14	44	80	41	8	SS03M023	6mm	571.074	5mm	35	1,72
3901252	KM80ATCWNE16085M	16	48	85	44	8	SS03M025	6mm	571.075	6mm	50	1,89
3901283	KM80ATCWNE18085M	18	50	85	43	10	SS03M025	6mm	571.075	6mm	50	1,94
3901284	KM80ATCWNE20085M	20	52	85	45	10	SS03M026	8mm	571.076	6mm	95	1,98
3901285	KM80ATCWNE25100M	25	65	100	50	10	SS03M027	10mm	571.077	6mm	135	2,76
3901286	KM80ATCWNE32105M	32	72	105	55	10	SS03M029	10mm	571.077	6mm	160	3,18
3901287	KM80ATCWNE40115M	40	90	115	65	10	SS03M029	10mm	571.077	6mm	160	4,71

NOTE: Do not overtighten lock screw; use torque recommendations above.
 Supplied with lock screw and stop screw.
 Lock screw and stop screw wrenches are not included.

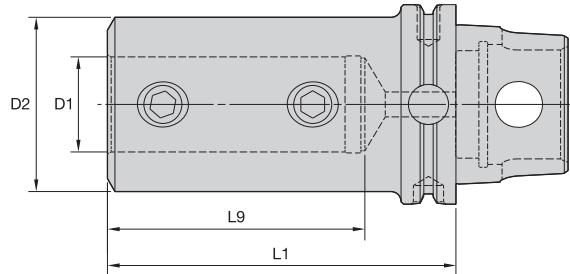


■ EM • Inch



order number	catalog number	D1	D2	L1	L9	lock screw	wrench size lock screw	ft. lbs.	lbs
2022197	KM80ATCEM100354	1	2.00	3.543	2.46	ELS075056PKG	3/8	110	4.26
2022198	KM80ATCEM125354	1 1/4	2.50	3.543	2.51	ELS075062PKG	3/8	110	5.21
1961336	KM80ATCEM150382	1 1/2	2.75	3.819	2.93	ELS075069PKG	3/8	110	5.88
2022199	KM80ATCEM200492	2	3.74	4.921	3.53	ELS100088PKG	1/2	150	11.61

NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw.
Lock screw wrench not included.



■ SSF • Straight Shank Adapter for Drill Shanks with Flats

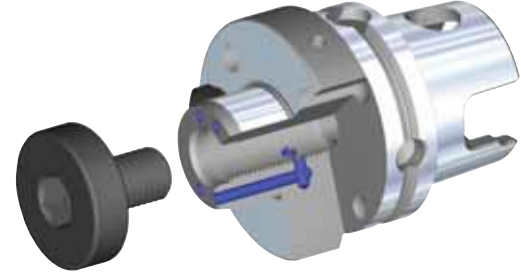
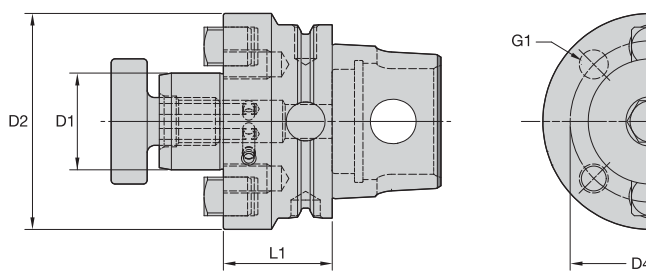


order number	catalog number	D1	L1	D2	L9	lock screw	wrench size stop screw	ft. lbs.	lbs
2024413	KM80ATCSSF075350	.750	3.500	3.150	2.250	ELS062050PKG	5/16	70	4.02
2024414	KM80ATCSSF100450	1.000	4.500	3.150	3.250	—	3/8	110	4.99
2024415	KM80ATCSSF125500	1.250	5.000	3.150	3.500	ELS075056PKG	3/8	110	6.96
2024416	KM80ATCSSF150550	1.500	5.500	3.150	4.000	ELS075056PKG	3/8	110	8.18
2024417	KM80ATCSSF200650	2.000	6.500	3.150	4.250	ELS100088PKG	1/8	150	15.93



WARNING

During through-hole operations, a slug or disk is produced as the tool breaks through the workpiece. When the drill is stationary and the workpiece is rotating, this slug may be hurled from the chuck by centrifugal force. Provide adequate shielding to protect bystanders.



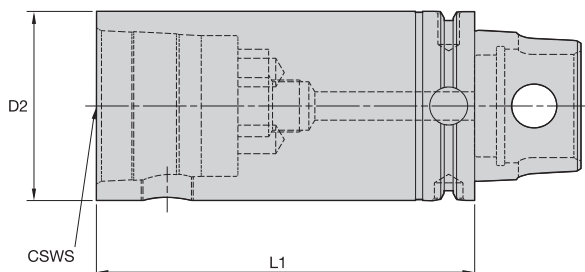
■ SMC • Metric

order number	catalog number	D1	D2	D4	G1	L1	socket-head cap screw	lock screw	drive key	wrench size lock screw	kg
3897160	KM80ATCSMC22040M	22	49	—	—	40	MS1234	—	KDK22M	8mm	1,52
3897161	KM80ATCSMC27040M	27	60	—	—	40	—	KLSS27M	KDK27M	10mm	1,70
3897162	KM80ATCSMC32040M	32	78	—	—	40	—	KLSS32M	KDK32M	12mm	2,02
3897193	KM80ATCSMC40045M	40	89	67	M12 X 1.75	45	—	KLSS40M	KDK40M	12mm	2,55
3897194	KM80ATCSMC50055M	50	98	—	—	55	—	KLS50M	—	—	3,60
3897195	KM80ATCSMC60060M	60	129	102	M16 X 2.0	60	—	—	KDK60M	—	5,28

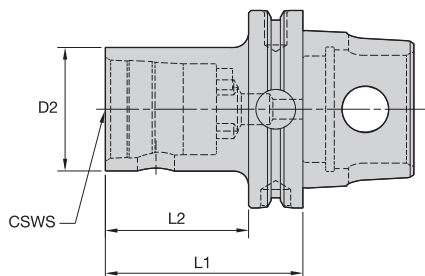
■ SMC • Inch

order number	catalog number	D1	D2	D4	G1	L1	lock screw	drive key	wrench size lock screw	lbs
3955375	KM80ATCSMC2C100158	1	2.19	—	—	1.575	KLS10	KDK06	5/16	3.52
3955376	KM80ATCSMC125158	1 1/4	2.88	—	—	1.575	KLS12	KDK08	5/16	4.26
3955377	KM80ATCSMC125394	1 1/4	2.88	—	—	3.937	KLS12	KDK08	5/16	8.49
3955378	KM80ATCSMC150158	1 1/2	3.81	—	—	1.575	KLS15	KDK10	3/8	5.46
3955379	KM80ATCSMC200216	2	4.88	4.000	.625-11 UNC	2.165	KLS20	KDK12	9/16	9.55
3955380	KM80ATCSMC250225	2 1/2	4.88	4.000	.625-11 UNC	2.250	—	KDK16	9/16	10.82
3955381	KM80ATCSMC250450	2 1/2	4.88	4.000	.625-11 UNC	4.500	—	KDK16	9/16	14.77

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.

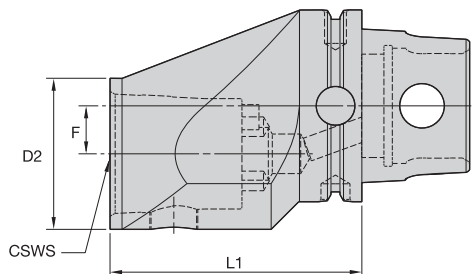

■ S • KM Extension


order number	catalog number	CSWS system size	D2		L1		wrench size			spare parts package	kg	lbs
			mm	in	mm	in	actuation screw	Nm	ft. lbs.			
2024394	KM80ATCS80120	KM80	80	3.150	120	4.724	14mm	78-84	58-64	KM80PKG3S	4,28	9.43
2024395	KM80ATCS80160	KM80	80	3.150	160	6.299	14mm	78-84	58-64	KM80PKG3S	5,82	12.82


■ S • KM Reducer


order number	catalog number	CSWS system size	D2		L1		L2		wrench size			spare parts package	kg	lbs
			mm	in	mm	in	mm	in	actuation screw	Nm	ft. lbs.			
2024396	KM80ATCS4060	KM40	40	1.575	60	2.362	38	1.496	6mm	12-16	9-12	KM40PKG3S	1,45	3.20
2024397	KM80ATCS5080	KM50	50	1.969	80	3.150	58	2.284	10mm	27-34	20-25	KM50PKG3S	1,86	4.09
2024398	KM80ATCS6380	KM63	63	2.480	80	3.150	58	2.284	12mm	47-54	35-40	KM63PKG3S	2,18	4.81

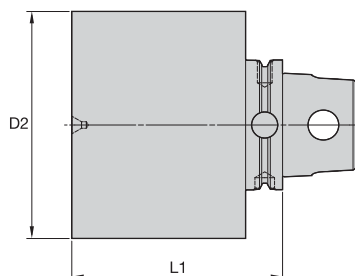
NOTE: Designed for centerline KM cutting units.



■ ES • KM Offset Reducer

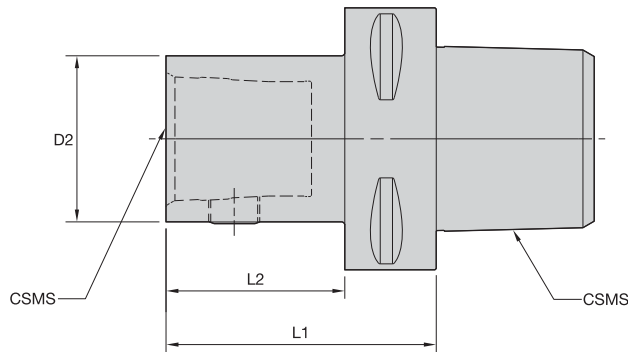


order number	catalog number	CSWS system size	D2		F		L1		wrench size			spare parts package	kg	lbs
			mm	in	mm	in	mm	in	actuation screw	Nm	ft. lbs.			
2203620	KM80ATCESL63105	KM63	80	3.150	20	.787	105	4.134	12mm	47-54	35-40	KM63PKG3S	3,87	8.50
2048377	KM80ATCESR63105	KM63	80	3.150	20	.787	105	4.134	12mm	47-54	35-40	KM63PKG3S	3,87	8.50



■ BN • Blank

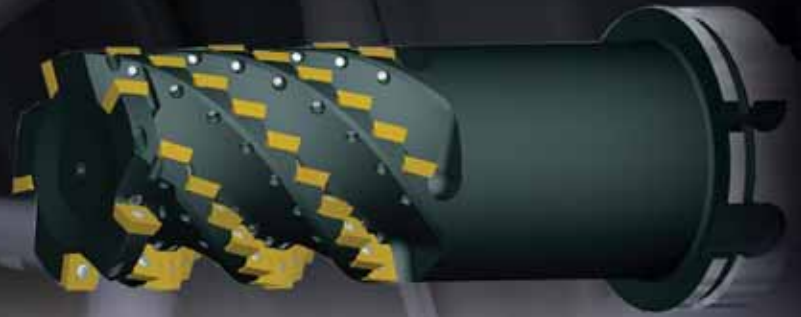
order number	catalog number	D2		L1		hardness range	kg	lbs
		mm	in	mm	in			
2873209	KM80ATCBN125075M	125	4.921	75	2.953	32-38 HRC	6,20	13.68
2879350	KM80ATCBN140130M	140	5.512	130	5.118	32-38 HRC	14,11	31.11



■ PSC-KM



order number	catalog number	CSMS system size	CSWS system size	D2	L1	L2	wrench size actuation screw	Nm	ft. lbs.	KM spare parts package	kg	lbs
3852030	PSC63KM40TS065M	PSC63	KM40TS	40	65	43	6 mm	12	9	KM40PKG3S	1,09	2.41
3852063	PSC63KM40TS090M	PSC63	KM40TS	40	90	68	6 mm	12	9	KM40PKG3S	1,32	2.91
3874895	PSC80KM50TS070M	PSC80	KM50TS	50	70	40	10 mm	27	20	KM50PKG3S	2,16	4.77
3852064	PSC63KM50TS090M	PSC63	KM50TS	50	90	68	10 mm	27	20	KM50PKG3S	1,59	3.50
3852031	PSC63KM50TS075M	PSC63	KM50TS	50	75	53	10 mm	27	20	KM50PKG3S	1,37	3.03
3874897	PSC80KM50TS100M	PSC80	KM50TS	50	100	70	10 mm	27	20	KM50PKG3S	2,61	5.76
3864845	PSC80KM63TS155M	PSC80	KM63TS	63	155	125	12 mm	47	35	KM63PKG3S	4,35	9.59
3852065	PSC63KM63TS105M	PSC63	KM63TS	63	105	105	12 mm	47	35	KM63PKG3S	2,34	5.17
3864844	PSC80KM63TS080M	PSC80	KM63TS	63	80	50	12 mm	47	35	KM63PKG3S	2,57	5.67
3852032	PSC63KM63TS090M	PSC63	KM63TS	63	90	90	12 mm	47	35	KM63PKG3S	2,00	4.42
3874898	PSC80KM80TS155M	PSC80	KM80TS	80	155	155	14 mm	79	58	KM80PKG3S	5,89	12.99
3874896	PSC80KM80TS090M	PSC80	KM80TS	80	90	90	14 mm	79	58	KM80PKG3S	3,40	7.49



KM4X™ • The New Choice for Heavy-Duty Milling

Primary Application

The KM4X 4-ball spindle interface provides up to 3x more bending capacity than HSK. The greater bending capacity enables customers to fully utilize the capabilities of their machine and cutting tools when working with tough materials like titanium or during heavy machining. Increased metal removal rates optimize machine production and decrease overall manufacturing cost.

- Heavy-duty, rigid configuration.
- 3x more bending capacity than HSK.
- Increased metal removal rates.
- Full utilization of machine tools.
- Decreased manufacturing costs.
- Balanced-by-design for higher spindle speeds.
- Highest maximum speed capability.

Features and Benefits

The Latest Innovation in Spindle Interface Technology

- KM4X offers the most rigid connection able to withstand extremely high bending due to a combination of high interference and high clamping forces.
- KM™ is the only connection that maintains stiffness at elevated rotational speeds and is suitable for a range of applications from low speeds with high torque to very high spindle speeds.
- KM4X is better balanced between bending and torsion capabilities.

To learn more, **scan here.**

For instructions on how to scan, please see page xxxiii.





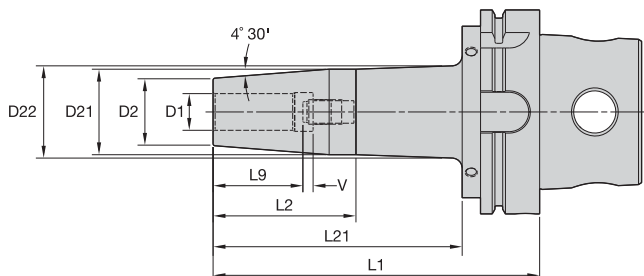
Four locking elements for power, drive, and uniform rigid locking. Provides even distribution of forces.

Systems secondary drive/location and orientation feature.

The KMT™ System's superior rigidity and accuracy is gained by optimized interference levels. Three surface areas of contact develop when clamped, resulting in superior performance.



Standardized HSK V-flange and features for automatic tool-change arms.



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

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, 40, & 50	h6	0,000/-0,016

■ TT GP HPV MM-KM4X • Metric

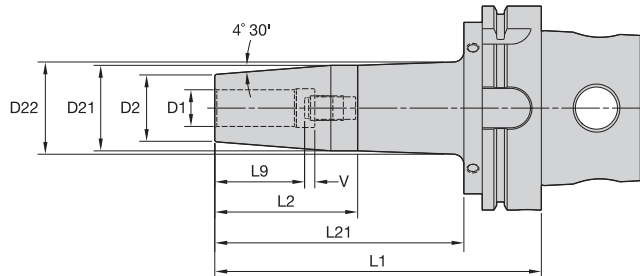


order number	catalog number	D1	D2	D21	D22	L1	L2	L9	L21	V	stop screw	wrench size stop screw
4156046	KM4X100HPVTT06085M	6	21	27	—	85	56	26	—	10	TTSS05014M	2,5mm
4156047	KM4X100HPVTT06160M	6	21	27	32	160	50	26	122	10	TTSS05014M	2,5mm
4156048	KM4X100HPVTT08085M	8	21	27	—	85	56	26	—	10	TTSS06014M	3mm
4156049	KM4X100HPVTT08160M	8	21	27	32	160	50	26	122	10	TTSS06014M	3mm
4156050	KM4X100HPVTT10090M	10	24	32	—	90	61	31	—	10	TTSS08014M	4mm
4156051	KM4X100HPVTT10160M	10	24	32	36	160	63	31	122	10	TTSS08014M	4mm
4156052	KM4X100HPVTT12095M	12	24	32	—	95	66	36	—	10	TTSS10014M	5mm
4156113	KM4X100HPVTT12160M	12	24	32	36	160	63	36	122	10	TTSS10014M	5mm
4156114	KM4X100HPVTT14095M	14	27	34	—	95	66	36	—	10	TTSS10014M	5mm
4156115	KM4X100HPVTT14160M	14	27	34	38	160	57	36	122	10	TTSS10014M	5mm
4156116	KM4X100HPVTT16100M	16	27	34	—	100	71	39	—	10	TTSS12014M	6mm
4156117	KM4X100HPVTT16160M	16	27	34	38	160	57	39	122	10	TTSS12014M	6mm
4156118	KM4X100HPVTT18100M	18	33	42	—	100	71	39	—	10	TTSS12014M	6mm
4156119	KM4X100HPVTT18160M	18	33	42	46	160	69	39	122	10	TTSS12014M	6mm
4156120	KM4X100HPVTT20105M	20	33	42	—	105	76	41	—	10	TTSS16014M	8mm
4156121	KM4X100HPVTT20160M	20	33	42	46	160	69	41	122	10	TTSS16014M	8mm
4156122	KM4X100HPVTT25115M	25	44	53	—	115	86	47	—	10	TTSS16014M	8mm
4156123	KM4X100HPVTT25160M	25	44	53	57	160	69	47	122	10	TTSS16014M	8mm
4156124	KM4X100HPVTT32120M	32	44	53	—	120	91	51	—	10	TTSS16014M	8mm
4156125	KM4X100HPVTT32160M	32	44	53	57	160	69	51	122	10	TTSS16014M	8mm

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

Supplied with stop screw.

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



KM4X 100 Shank Tools

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

Cutting Tool Shank Requirements
inch (industry standard)

cutting tool shank diameter	tolerance
1/4, 5/16, & 3/8	-.0001/-0.0004
7/16, 1/2, 9/16, 5/8, & 11/16	.0000/-0.0004
3/4, 7/8, 1, 1-1/4, 1-1/2, & 2	.0000/-0.0005

■ TT GP HPV IN-KM4X • Inch

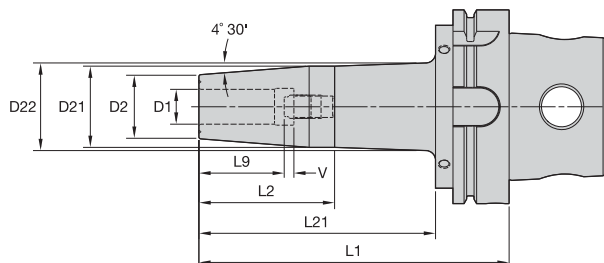


order number	catalog number	D1	D2	D21	D22	L1	L2	L9	L21	V	stop screw	wrench size stop screw
4155746	KM4X100HPVTT025335	1/4	0.83	1.06	—	3.35	2.21	1.02	—	0.39	TTSS05014M	2,5mm
4155747	KM4X100HPVTT025630	1/4	0.83	1.06	1.26	6.30	1.97	1.02	4.81	0.39	TTSS05014M	2,5mm
4155748	KM4X100HPVTT031335	5/16	0.83	1.06	—	3.35	2.21	1.02	—	0.39	TTSS06014M	3mm
4155749	KM4X100HPVTT031630	5/16	0.83	1.06	1.26	6.30	1.97	1.02	4.81	0.39	TTSS06014M	3mm
4155750	KM4X100HPVTT038354	3/8	0.95	1.24	—	3.54	2.40	1.22	—	0.39	TTSS08014M	4mm
4155751	KM4X100HPVTT038630	3/8	0.95	1.26	1.42	6.30	2.48	1.22	4.81	0.39	TTSS08014M	4mm
4155752	KM4X100HPVTT050374	1/2	0.95	1.26	—	3.74	2.60	1.42	—	0.39	TTSS10014M	5mm
4156153	KM4X100HPVTT050630	1/2	0.95	1.26	1.42	6.30	2.48	1.42	4.81	0.39	TTSS10014M	5mm
4156154	KM4X100HPVTT062394	5/8	1.06	1.34	—	3.94	2.80	1.54	—	0.39	TTSS12014M	6mm
4156155	KM4X100HPVTT062630	5/8	1.06	1.34	1.51	6.30	2.24	1.54	4.81	0.39	TTSS12014M	6mm
4156156	KM4X100HPVTT075413	3/4	1.30	1.65	—	4.13	2.99	1.61	—	0.39	TTSS16014M	8mm
4156157	KM4X100HPVTT075630	3/4	1.30	1.65	1.8	6.30	2.72	1.61	4.81	0.39	TTSS16014M	8mm
4156158	KM4X100HPVTT088413	7/8	1.30	1.65	—	4.13	2.99	1.61	—	0.39	TTSS16014M	8mm
4156159	KM4X100HPVTT088630	7/8	1.30	1.65	1.8	6.30	2.72	1.61	4.81	0.39	TTSS16014M	8mm
4156160	KM4X100HPVTT100453	1	1.73	2.08	—	4.53	3.39	1.85	—	0.39	TTSS16014M	8mm
4156161	KM4X100HPVTT100630	1	1.73	2.08	2.23	6.30	2.72	1.85	4.81	0.39	TTSS16014M	8mm
4156162	KM4X100HPVTT125472	1 1/4	1.73	2.08	—	4.72	3.59	2.01	—	0.39	TTSS16014M	8mm
4156163	KM4X100HPVTT125630	1 1/4	1.73	2.08	2.23	6.30	2.72	2.01	4.81	0.39	TTSS16014M	8mm
4156164	KM4X100HPVTT150531	1 1/2	2.36	2.75	—	5.31	4.18	2.01	—	0.39	TTSS20014M	10mm

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

Supplied with stop screw.

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



- 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.
- 10 kW power or greater Shrink Fit device must be used.

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

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

**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, 40, & 50	h6	0,000/-0,016

■ TT HT HPV MM-KM4X • Metric

order number	catalog number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw
4156182	KM4X100HPVTHT12095M	12	24	31,9	95	66	36	10	TTSS10014M	5mm
4156193	KM4X100HPVTHT14095M	14	27	33,9	95	66	36	10	TTSS10014M	5mm
4156194	KM4X100HPVTHT16100M	16	27	33,9	100	71	39	10	TTSS12014M	6mm
4156195	KM4X100HPVTHT18100M	18	33	41,9	100	71	39	10	TTSS12014M	6mm
4156196	KM4X100HPVTHT20105M	20	33	41,9	105	76	41	10	TTSS16014M	8mm
4156197	KM4X100HPVTHT25115M	25	44	52,9	115	86	47	10	TTSS16014M	8mm
4156198	KM4X100HPVTHT32120M	32	44	52,9	120	91	51	10	TTSS16014M	8mm



(continued)

(continued)

■ TT HT HPV IN-KM4X • Inch

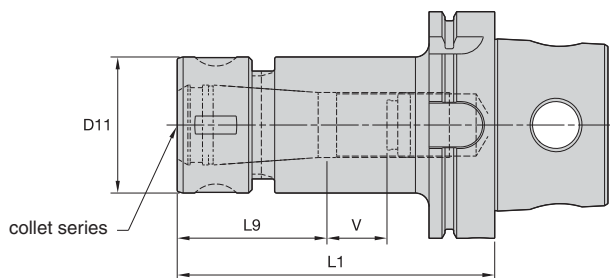


order number	catalog number	D1	D2	D21	D22	L1	L2	L9	L21	V	stop screw	wrench size stop screw
4156166	KM4X100HPVTTH050374	1/2	0.95	1.26	—	3.74	2.60	1.42	—	0.39	TTSS10014M	5mm
4156167	KM4X100HPVTTH050630	1/2	0.95	1.26	1.42	6.30	2.48	1.42	4.81	0.39	TTSS10014M	5mm
4156168	KM4X100HPVTTH062394	5/8	1.06	1.34	—	3.94	2.80	1.54	—	0.39	TTSS12014M	6mm
4156169	KM4X100HPVTTH062630	5/8	1.06	1.34	1.51	6.30	2.24	1.54	4.81	0.39	TTSS12014M	6mm
4156170	KM4X100HPVTTH075413	3/4	1.30	1.65	—	4.13	2.99	1.61	—	0.39	TTSS16014M	8mm
4156171	KM4X100HPVTTH075630	3/4	1.30	1.65	1.8	6.30	2.72	1.61	4.81	0.39	TTSS16014M	8mm
4156172	KM4X100HPVTTH088413	7/8	1.30	1.65	—	4.13	2.99	1.61	—	0.39	TTSS16014M	8mm
4156203	KM4X100HPVTTH088630	7/8	1.30	1.65	1.8	6.30	2.72	1.61	4.81	0.39	TTSS16014M	8mm
4156204	KM4X100HPVTTH100453	1	1.73	2.08	—	4.53	3.39	1.85	—	0.39	TTSS16014M	8mm
4156205	KM4X100HPVTTH100630	1	1.73	2.08	2.23	6.30	2.72	1.85	4.81	0.39	TTSS16014M	8mm
4156206	KM4X100HPVTTH125472	1 1/4	1.73	2.08	—	4.72	3.59	2.01	—	0.39	TTSS16014M	8mm
4156207	KM4X100HPVTTH125630	1 1/4	1.73	2.08	2.23	6.30	2.72	2.01	4.81	0.39	TTSS16014M	8mm
4156208	KM4X100HPVTTH150531	1 1/2	2.36	2.75	—	5.31	4.18	2.01	—	0.39	TTSS20014M	10mm

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

Supplied with stop screw.

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



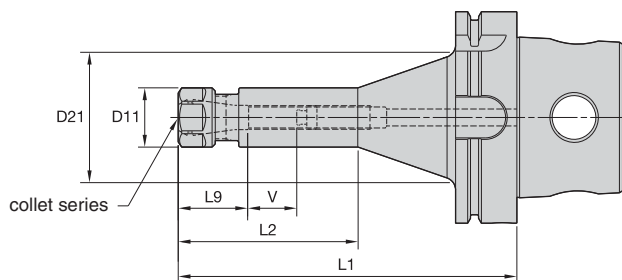
- Tremendous Grip (3:1 advantage).

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
TG150	11,6	40,0	23/64	1-1/2

■ TG Round-KM4X

order number	catalog number	collet series	D11	L1	L9	V	locknut	locknut wrench	Nm	stop screw	wrench size stop screw
4156445	KM4X100TG050105M	TG50	38	105	42	40	LNA050M	HSW34M	68	SS056041G	4mm & 5/32
4156446	KM4X100TG050160M	TG50	38	160	42	58	LNA050M	HSW34M	68	SS056041G	4mm & 5/32
4156447	KM4X100TG075120M	TG75	50	120	54	46	LNA075M	HSW45M	136	SS081041G	4mm & 5/32
4156448	KM4X100TG100140M	TG100	60	140	70	45	LNA100M	HSW58M	203	SS112041G	4mm & 5/32
4156449	KM4X100TG150165M	TG150	85	165	84	46	LNA150M	HSW80M	271	SS162062G	4mm & 5/32

NOTE: First, load collet into locknut. Before loading into the chuck body, insert cutting tool, then tighten to recommended tightening torque.
Supplied with locknut and stop screw.
Locknut wrench must be ordered separately.



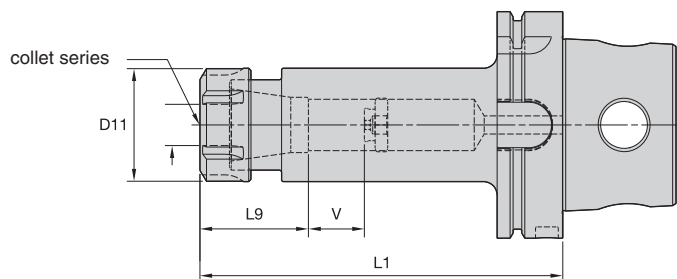
KM4X 100 Shank Tools

- Grip (2:1 advantage).

ER collet series	Collet Capacity		mm		inch	
	min	max	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		

■ ER Hex-KM4X

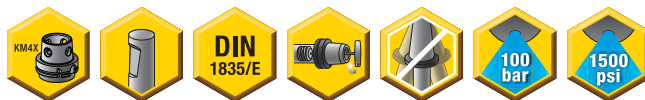
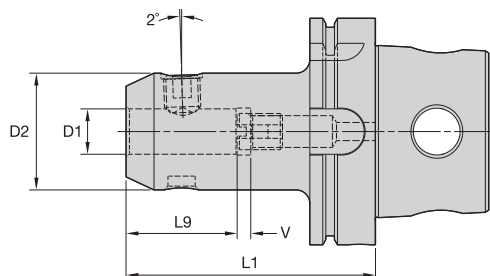
order number	catalog number	collet series	D11	D21	L1	L2	L9	V	locknut	locknut wrench	Nm	stop screw	wrench size stop screw
4159999	KM4X100ER16100M	ER16	28	—	100	—	32	53	LNHSE16M	OE25M	56	SS044038G	4mm & 5/32
4160000	KM4X100ER16160M	ER16	28	60	160	85	32	68	LNHSE16M	OE25M	56	SS044038G	4mm & 5/32
4160001	KM4X100ER20100M	ER20	34	—	100	—	36	35	LNHSE20M	OE30M	80	SS056041G	4mm & 5/32



■ ER Round-KM4X

order number	catalog number	collet series	D11	L1	L9	V	locknut	locknut wrench	Nm	stop screw	wrench size stop screw
4160002	KM4X100ER25100M	ER25	42	100	40	33	LNSE25M	ER25WM	104	SS075041G	4mm & 5/32
4160043	KM4X100ER32100M	ER32	50	100	45	32	LNSE32M	ER32WM	136	SS094041G	4mm & 5/32
4160044	KM4X100ER32160M	ER32	50	160	45	92	LNSE32M	ER32WM	136	SS094041G	4mm & 5/32
4160045	KM4X100ER40120M	ER40	63	120	52	38	LNSE40M	ER40WM	175	SS112041G	4mm & 5/32

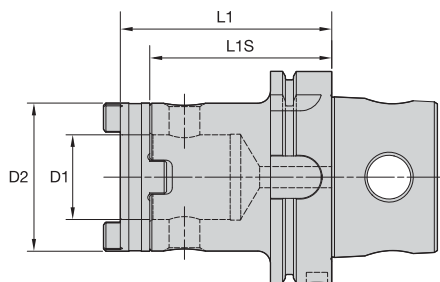
NOTE: First, load collet into locknut. Before loading into the chuck body, insert cutting tool, then tighten to recommended tightening torque.
 Supplied with locknut and stop screw.
 Locknut wrench must be ordered separately.



■ WN MM-KM4X • Metric

order number	catalog number	D1	D2	L1	L9	V	clamp screw	wrench size clamp screw	Nm	stop screw	wrench size stop screw
4160047	KM4X100WN06090M	6	24,5	90	30	10	SS03M012	3mm	7	571.060	2,5mm
4160048	KM4X100WN08090M	8	27,5	90	30	10	SS03M014	4mm	15	571.067	3mm
4160049	KM4X100WN10090M	10	34,5	90	35	10	SS03M018	5mm	25	571.068	4mm
4160050	KM4X100WN12100M	12	41,5	100	40	10	SS03M023	6mm	35	571.074	5mm
4160051	KM4X100WN14100M	14	43,5	100	40	10	SS03M023	6mm	35	571.074	5mm
4160052	KM4X100WN16100M	16	47,5	100	43	10	SS03M025	6mm	50	571.069	6mm
4160073	KM4X100WN18100M	18	49,5	100	43	10	SS03M025	6mm	50	571.069	6mm
4160074	KM4X100WN20110M	20	51,5	110	45	10	SS03M026	8mm	95	571.076	6mm
4160075	KM4X100WN25120M	25	64,5	120	50	10	SS03M027	10mm	135	571.077	6mm
4160076	KM4X100WN32120M	32	71,5	120	54	10	SS03M029	10mm	160	571.077	6mm

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw and stop screw.
Clamp screw and stop screw wrenches not included.



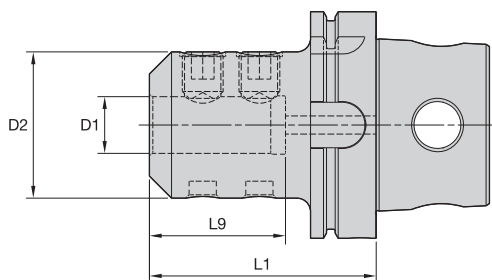
KM4X 100 Shank Tools

■ HTS-KM4X



order number	catalog number	D1	D2	L1	L1S	clamp screw	hex wrench	drive ring	ft. lbs.	kg
4159439	KM4X100HTS40085M	40	70	99	85	191.728	170.008	192.424	26	3.80
4159440	KM4X100HTS50090M	50	80	106	90	191.728	170.008	192.425	26	4.27

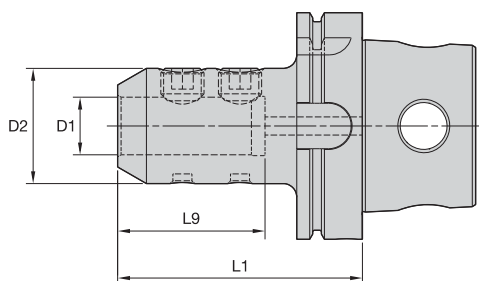
NOTE: Shipped with drive ring and clamping screw.
Assemble components using recommended torque values.



■ EM MM-KM4X • Metric



order number	catalog number	D1	D2	L1	L9	clamp screw	wrench size clamp screw	Nm
4160510	KM4X100EM06080M	6	24,5	80	52	SS03M012	3mm	7
4160511	KM4X100EM08080M	8	27,5	80	52	SS03M014	4mm	15
4160512	KM4X100EM10080M	10	34,5	80	52	SS03M018	5mm	25
4160533	KM4X100EM12080M	12	41,5	80	49	SS03M023	6mm	35
4160534	KM4X100EM14080M	14	43,5	80	49	SS03M023	6mm	35
4160535	KM4X100EM16100M	16	47,5	100	53	SS03M025	6mm	50
4160536	KM4X100EM18100M	18	49,5	100	53	SS03M025	6mm	50
4160537	KM4X100EM20100M	20	51,5	100	55	SS03M026	8mm	95
4160538	KM4X100EM25100M	25	64,5	100	60	SS03M027	10mm	135
4160539	KM4X100EM32100M	32	71,5	100	65	SS03M029	10mm	160
4160540	KM4X100EM40120M	40	89,5	120	75	SS03M032	10mm	160
4160541	KM4X100EM50130M	50	99,5	130	85	SS03M030	12mm	200

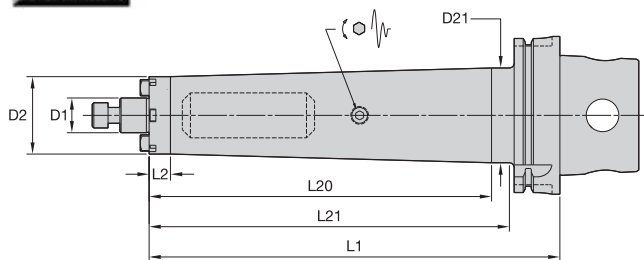


■ EM IN-KM4X • Inch



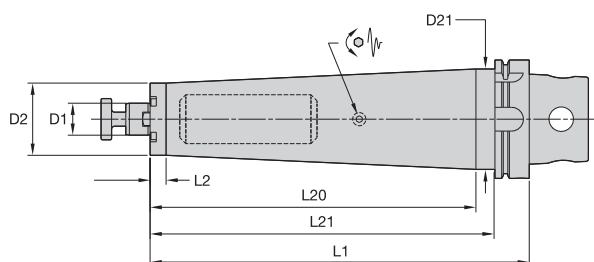
order number	catalog number	D1	D2	L1	L9	clamp screw	wrench size clamp screw	ft. lbs.
4160518	KM4X100EM025300	1/4	1.000	3.000	1.89	ELS025025	1/8	8
4160519	KM4X100EM038300	3/8	1.000	3.000	1.89	ELS038031	3/16	15
4160520	KM4X100EM050325	1/2	1.375	3.250	1.97	ELS044038	7/32	20
4160521	KM4X100EM062375	5/8	1.625	3.750	2.09	ELS056050	1/4	40
4160522	KM4X100EM075375	3/4	1.750	3.750	2.22	ELS062050	5/16	70
4160573	KM4X100EM100425	1	2.000	4.250	2.46	ELS075056	3/8	110
4160574	KM4X100EM125425	1 1/4	2.500	4.250	2.51	ELS075062	3/8	110
4160575	KM4X100EM150450	1 1/2	2.750	4.500	2.93	ELS075069	3/8	110
4160576	KM4X100EM200550	2	3.750	5.500	3.53	ELS100088	1/2	150
4160577	KM4X100EM250575	2 1/2	4.188	5.750	3.63	ELS100088	1/2	150

NOTE: Do not overtighten clamp screw; use torque recommendations above.
Supplied with clamp screw.
Clamp screw wrench not included.



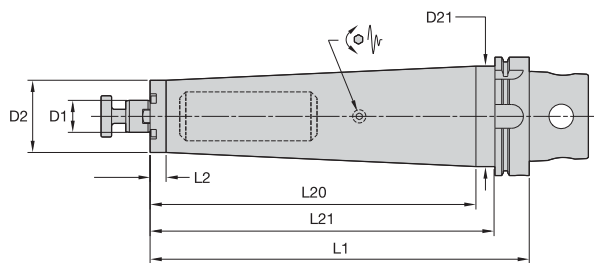
■ SMC TD CAP MM-KM4X • Metric

order number	catalog number	D1	D2	D21	L1	L2	L20	L21	lock screw	wrench size lock screw
4169583	KM4X100TDSMC22260M	22	49	65	260	13,5	215	231	MS-1234	8mm



■ SMC TD Lock MM-KM4X • Metric

order number	catalog number	D1	D2	D21	L1	L2	L20	L21	lock screw	wrench size lock screw
4169584	KM4X100TDSMC27320M	27	61	85	320	13,5	275	291	KLSS27M	10mm
4169585	KM4X100TDSMC32330M	32	78	—	330	299	—	—	KLSS32M	14mm

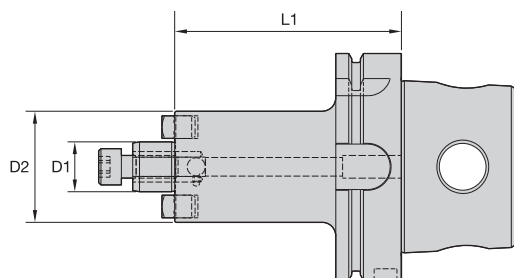


■ SMC TD Lock IN-KM4X • Inch

order number	catalog number	D1	D2	D21	L1	L2	L20	L21	clamp screw	wrench size clamp screw
4169586	KM4X100TDSMC0751050	3/4	1.75	2.56	10.5	.53	8.73	9.24	KLS07	1/4
4169587	KM4X100TDSMC1001250	1	2.75	3.33	12.5	.53	10.73	11.36	KLS10	5/16
4169588	KM4X100TDSMC1251300	1 1/4	2.88	3.33	13	.63	11.23	11.86	KLS12	5/16

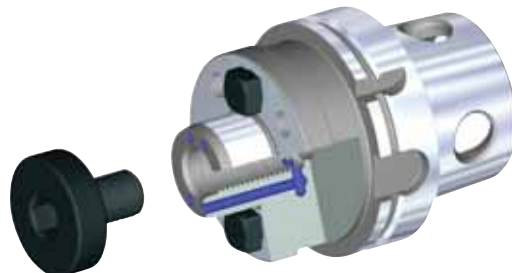
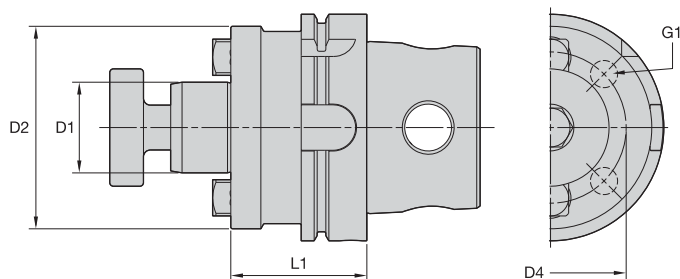
NOTE: Do not overtighten lock screw; use torque recommendations above.
 Supplied with lock screw and drive keys.
 Lock screw wrench not included.





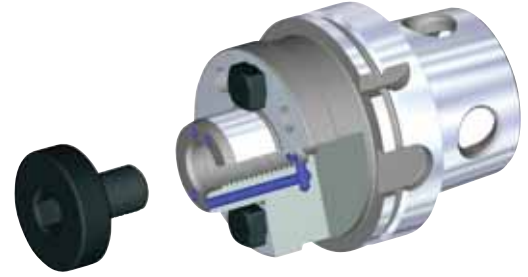
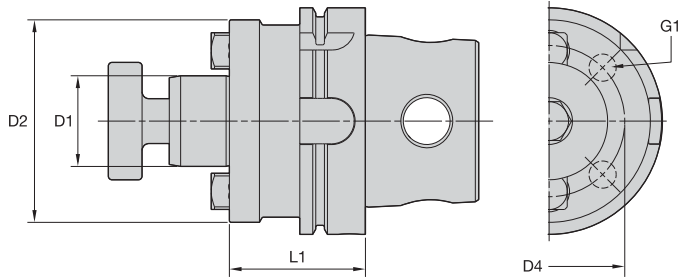
■ SMC CAP MM-KM4X • Metric

order number	catalog number	D1	D2	L1	lock screw	wrench size lock screw
4160335	KM4X100SMC22050M	22	49	50	MS1234	8mm
4160337	KM4X100SMC22100M	22	49	100	MS1234	8mm
4160338	KM4X100SMC22160M	22	49	160	MS1234	8mm



■ SMC Lock MM-KM4X • Metric

order number	catalog number	D1	D2	D4	G1	L1	lock screw	wrench size lock screw
4160340	KM4X100SMC27050M	27	60	—	—	50	KLSS27M	10mm
4160341	KM4X100SMC27100M	27	60	—	—	100	KLSS27M	10mm
4160342	KM4X100SMC27160M	27	60	—	—	160	KLSS27M	10mm
4160343	KM4X100SMC32050M	32	78	—	—	50	KLSS32M	14mm
4160344	KM4X100SMC32100M	32	78	—	—	100	KLSS32M	14mm
4160345	KM4X100SMC32160M	32	78	—	—	160	KLSS32M	14mm
4160346	KM4X100SMC40060M	40	89	67	M12x1,75	60	KLSS40M	17mm
4160347	KM4X100SMC40100M	40	89	67	M12x1,75	100	KLSS40M	17mm
4160348	KM4X100SMC40160M	40	89	67	M12x1,75	160	KLSS40M	17mm
4160350	KM4X100SMC50070M	50	98	—	—	70	KLSS50M	SMW50M
4160351	KM4X100SMC50100M	50	98	—	—	100	KLSS50M	SMW50M
4160352	KM4X100SMC50160M	50	98	—	—	160	KLSS50M	SMW50M
4160353	KM4X100SMC60070M	60	129	102	M16x2,0	70	—	—
4160354	KM4X100SMC60100M	60	129	102	M16x2,0	100	—	—
4160355	KM4X100SMC60160M	60	129	102	M16x2,0	160	—	—

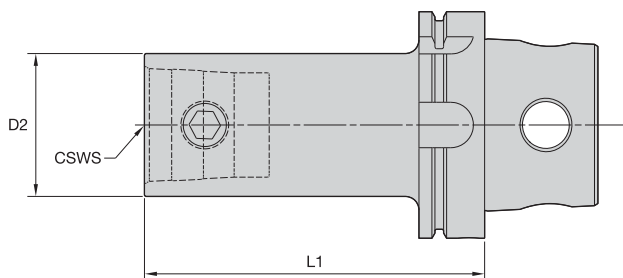


■ SMC Lock IN-KM4X • Inch



order number	catalog number	D1	D2	D4	G1	L1	lock screw	wrench size lock screw
4160286	KM4X100SMC075400	3/4	1.75	—	—	4.00	KLS07	1/4
4160287	KM4X100SM2C075400	3/4	1.46	—	—	4.00	KLS07	1/4
4160289	KM4X100SMC075600	3/4	1.75	—	—	6.00	KLS07	1/4
4160290	KM4X100SM2C075600	3/4	1.46	—	—	6.00	KLS07	1/4
4160291	KM4X100SMC100400	1	2.75	—	—	4.00	KLS10	5/16
4160292	KM4X100SM2C100400	1	2.19	—	—	4.00	KLS10	5/16
4160313	KM4X100SMC100600	1	2.75	—	—	6.00	KLS10	5/16
4160314	KM4X100SM2C100600	1	2.19	—	—	6.00	KLS10	5/16
4160315	KM4X100SMC125400	1 1/4	2.88	—	—	4.00	KLS12	5/16
4160316	KM4X100SMC125600	1 1/4	2.88	—	—	6.00	KLS12	5/16
4160317	KM4X100SMC150400	1 1/2	3.81	—	—	4.00	KLS15	3/8
4160318	KM4X100SMC150600	1 1/2	3.81	—	—	6.00	KLS15	3/8
4160319	KM4X100SMC200400	2	4.88	4.00	5/8 - 11	4.00	KLS20	9/16
4160320	KM4X100SMC200600	2	4.88	4.00	5/8 - 11	6.00	KLS20	9/16
4160321	KM4X100SMC250400	2 1/2	4.88	4.00	5/8 - 11	4.00	—	1/2
4160322	KM4X100SMC250600	2 1/2	4.88	4.00	5/8 - 11	6.00	—	1/2

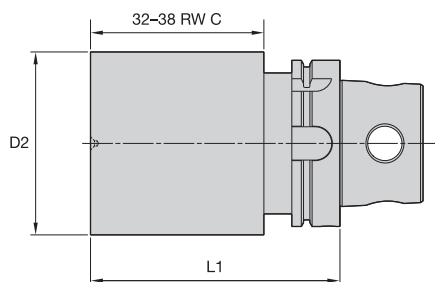
NOTE: Do not overtighten lock screw; use torque recommendations above.
Supplied with lock screw and drive keys.
Lock screw wrench not included.



KM-KM4X

order number	catalog number	CSWS	D2	L1	spare parts package	wrench size actuation screw	Nm
4161856	KM4X100KM32075M	32	32	75	KM32PKGS	5mm	8 - 11
4161858	KM4X100KM40080M	40	40	80	KM40PKGS	6mm	12 - 16
4161859	KM4X100KM40100M	40	40	100	KM40PKGS	6mm	12 - 16
4161860	KM4X100KM40150M	40	40	150	KM40PKGS	6mm	12 - 16
4161861	KM4X100KM50100M	50	50	100	KM50PKGS	10mm	27 - 34
4161862	KM4X100KM50150M	50	50	150	KM50PKGS	10mm	27 - 34
4161863	KM4X100KM50200M	50	50	200	KM50PKGS	10mm	27 - 34
4161864	KM4X100KM63100M	63	63	100	KM63PKGS	12mm	47 - 54
4161865	KM4X100KM63150M	63	63	150	KM63PKGS	12mm	47 - 54
4161866	KM4X100KM63200M	63	63	200	KM63PKGS	12mm	47 - 54
4161867	KM4X100KM80100M	80	80	100	KM80PKGS	14mm	79 - 85
4161868	KM4X100KM80150M	80	80	150	KM80PKGS	14mm	79 - 85
4161869	KM4X100KM80200M	80	80	200	KM80PKGS	14mm	79 - 85

NOTE: Do not overtorque actuation screw; use torque recommendations above.
Supplied with KM actuation mechanism.

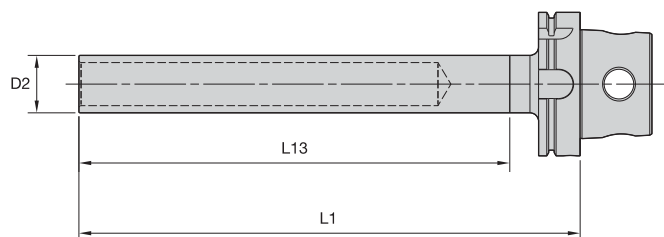


KM4X 100 Shank Tools

- Machinable front 32–38 RW C.

■ BB-KM4X

order number	catalog number	D2	L1
4160571	KM4X100BN080150M	80	150
4160572	KM4X100BN110150M	110	150
4160613	KM4X100BN130200M	130	200



- For acceptance testing on machine tool spindles.
- 0,003mm (.0001") maximum TIR.
- Precision ground.

■ GB-KM4X

order number	catalog number	D2	L1	L13
4160529	KM4X100GB40349M	40	349	330