



# Tooling Systems Innovations 2014–2017



# Tooling Systems

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**KM4X**.....

    KM4X 100.....

**KM4X and KM High-Pressure Coolant Adapted Cutting Units** .....

**ERICKSON HSK Shank Tooling System • HSK63A Series**.....

**ERICKSON HSK Shank Tooling System • HSK125 Series** .....

**HydroForce HT Hydraulic Chuck High Torque** .....

**ERICKSON HC Hydraulic Chuck Sleeves**.....

**Hydraulic Chuck Reducer Sleeves with ERICKSON Safe-Lock Smart Coolant**.....

**Synchro Plus Tap Holders** .....

**ERICKSON NG Induction Shrink Fit Unit**.....

**PSC Static and Rotating Tools** .....

**Global Contacts**.....

**Informational Icons Guide**.....

# KM™ Quick Change

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

The necessary tasks of changing, setting up, and gaging tools create an excess of machine downtime. For small batch manufacturing operations requiring these frequent setups, KM™ Quick Change Tooling is the most efficient method for reducing lost time and improving the overall quality of the machining process by generating greater productivity and increasing profits.

Aside from Quick Change Clamping units, KM™ has other economical means to improving machine utility. For example, Shrink Fit technology and Hydraulic Chucks are other methods offered for Quick Change Tooling.

There's no better way to begin maximising production than switching to KM™ Quick Change Tooling. Whether you're looking to purchase a new machine or to gain greater output from your current equipment, Kennametal offers a variety of methods to upgrade your tooling system. The cost of these improvements will be justified by time saved, production increased, and profits.

**The KM™ portfolio has three distinctive sub-families, KM Micro™ and KM Mini, KM-TS™ (ISO), and KM4X™:**

**KM Micro and KM Mini:** This unique quick-change system is specially designed to support and mount on Swiss-style turning centres, gang machines, and smaller lathes.

**KM-TS:** The ISO 26622 quick-change tooling system delivers the greatest value to customers by maximising downtime and gaining optimum productivity with rigidity, accuracy, and enabling pre-gaging off line. This tooling system supports both lathe and machining centres.

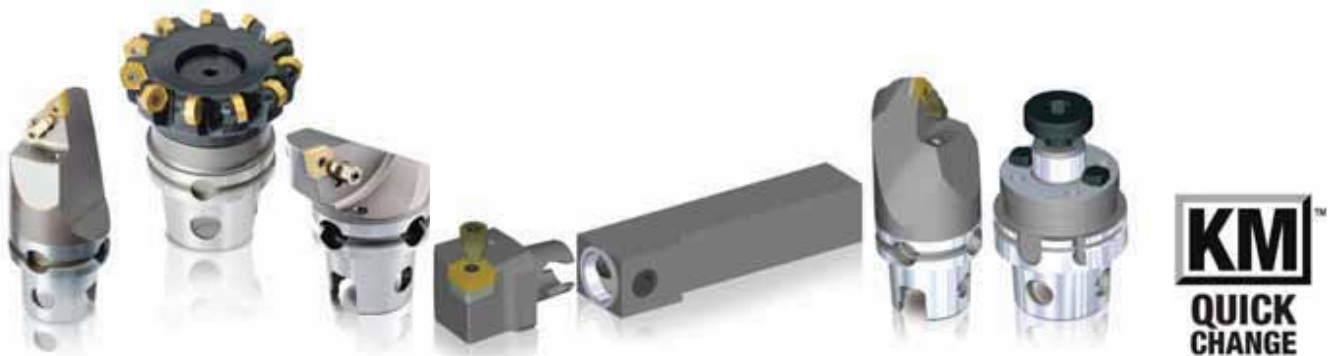
**KM4X:** The next generation of KM offers higher clamping forces and interference levels that lead to a robust connection and extremely high stiffness and bending load capacity resulting in unmatched performance from both lathe and machining centres.



## Uniquely Designed

A uniquely designed clamping mechanism is the driving force of KM™ Quick Change Tooling technology, which is designed around a single shank tapered at a shallow angle.

Using a simple mechanism involving lock rods and a ball track, a high clamping force is generated from a minimal amount of input force. This design is universal, and enables faster tool changes, reducing downtime.





**Extremely Rigid**

The most heavy-duty, rigid modular quick-change tooling available on the market today. The strength of the metal-to-metal locking device is extremely rigid, reducing vibration between components.



**Reliability**

Not only is KM™ Quick Change Tooling faster and more economical, it's also more reliable. The rigid coupling design enables a high degree of accuracy and repeatability. Low activation forces and decreased vibration provide longer life for clamping units and protect the mechanism in the event of a crash. Clamp strength enables operators to run machines at high maximum speeds without loss of force after continuous use.



**Versatility**

The KM™ System is a true modular system. It has been designed for all metalcutting operations and provides a standard platform for use throughout your shop. The KM™ clamping mechanism is designed to be used on all types of manufacturing equipment. Available in manual, VDI, KM-LOC II™, automatic, and rotating spindles.





## 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 utilise the capabilities of their machine and cutting tools when working with tough materials like titanium or during heavy machining. Increased metal removal rates optimise machine production and decrease overall manufacturing cost.

- Heavy-duty, rigid configuration.
- 3x more bending capacity than HSK.
- Increased metal removal rates.
- Full utilisation 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.

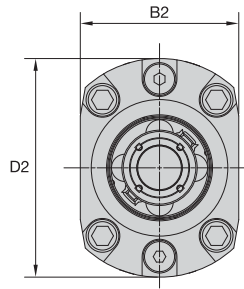
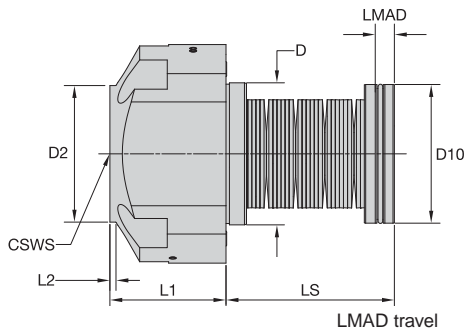


Four locking elements for power, drive, and uniform rigid locking. Provides even distribution of forces.

Systems secondary drive/location and orientation feature.

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

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



■ NACA

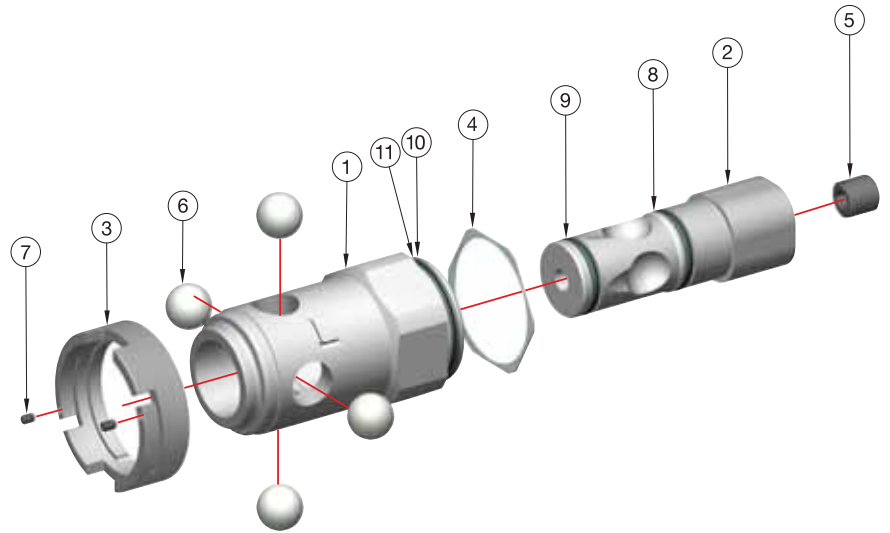
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5326071	KM4X100NCADS85	KM4X100	104	0	85,0	123	100	13,00

■ Actuating Force

catalogue number	actuating force (kN)	actuating force (lbs)
KM4X100NCADS85	70	15700

Tooling Systems



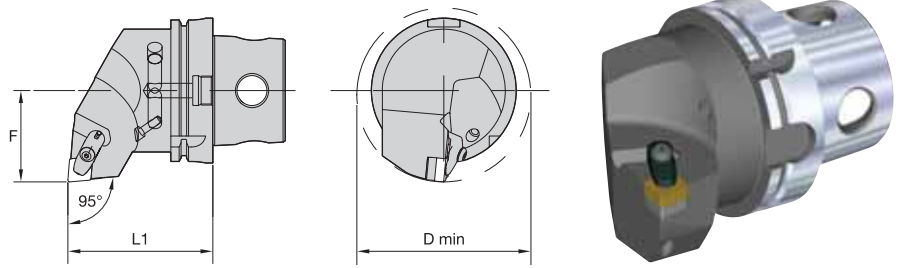


■ KIT

detail number	description	catalogue number	order number
1	canister	2699630	5408797
2	lockrod	2404270	5408798
3	canister ring	2404272	5408799
4	canister spacer	2699631	5413745
5	modified set screw	(M16 x 2,0)	5408990
6	chrome ball	LMB200025	5413539
7	set screw	S-1786	5413744
8	O-ring	OR01109139V75	5413740
9	O-ring	OR01046139V75	5413741
10	back-up ring	BUR135V90	5413742
11	O-ring	OR01925103V75	5413743



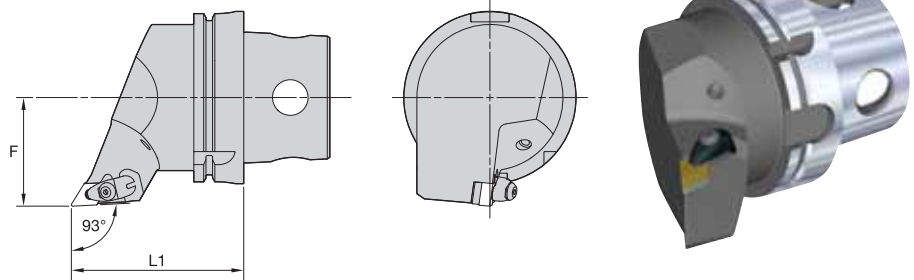
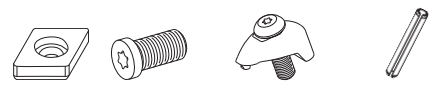
Tooling Systems



■ DCLN 95°

Tooling Systems

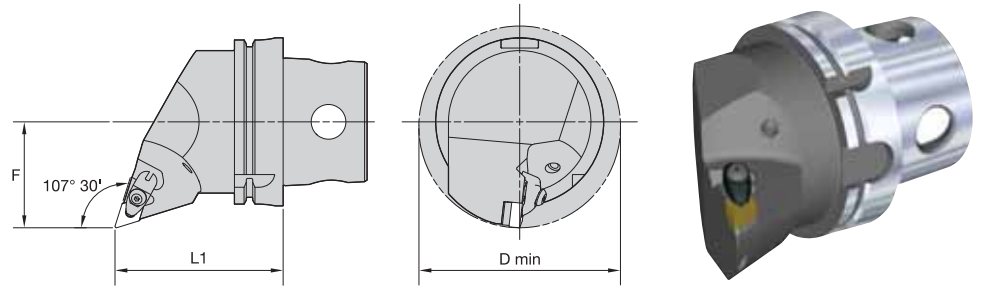
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		mm	in	mm	in	mm	in						
		right hand											
5345267	KM4X100DCLNR12KC04	100	3.937	63	2.480	120	4.72	CN..120408/CN..432	ICSN443	KMSP415IP	CM234R ASSY	SSP025016M	4,52
5345268	KM4X100DCLNR16KC06	100	3.937	63	2.480	120	4.72	CN..160612/CN..543	ICSN543	KMSP515IP	CM209R ASSY	SSP025018M	4,51
		left hand											
5345265	KM4X100DCLNL12KC04	100	3.937	63	2.480	120	4.72	CN..120408/CN..432	ICSN443	KMSP415IP	CM234R ASSY	SSP025016M	4,52
5345266	KM4X100DCLNL16KC06	100	3.937	63	2.480	120	4.72	CN..160612/CN..543	ICSN543	KMSP515IP	CM209R ASSY	SSP025018M	4,51



■ DDJN 93°

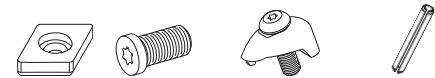
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		mm	in	mm	in						
		right hand									
5345310	KM4X100DDJNR15KC06	100	3.937	63	2.480	DN..150608/DN..442	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M	4,19
		left hand									
5345269	KM4X100DDJNL15KC06	100	3.937	63	2.480	DN..150608/DN..442	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M	4,19



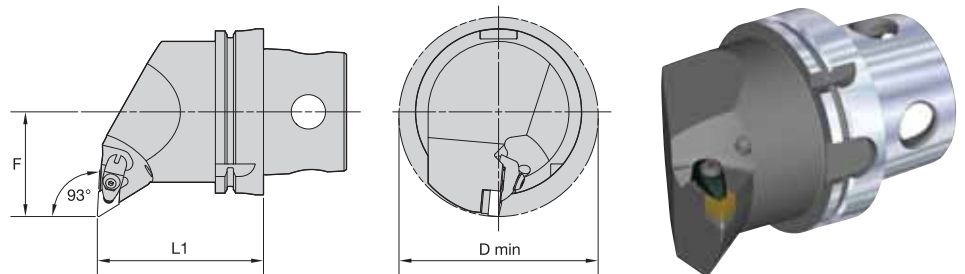


■ DDQN 107,5°

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		mm	in	mm	in	mm	in						
	right hand												
2265440	KM63TSDQNR15KC04	60	2.362	43	1.693	86	3.39	DN..150408/DN..432	IDSN443	KMSP415IP	CM234R ASSY	SSP025016M	1,11
2265442	KM63TSDQNR15KC06	60	2.362	43	1.693	86	3.39	DN..150608/DN..442	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M	1,11
	left hand												
2265441	KM63TSDQNL15KC04	60	2.362	43	1.693	86	3.39	DN..150408/DN..432	IDSN443	KMSP415IP	CM234R ASSY	SSP025016M	1,11
2265443	KM63TSDQNL15KC06	60	2.362	43	1.693	86	3.39	DN..150608/DN..442	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M	1,11



Tooling Systems



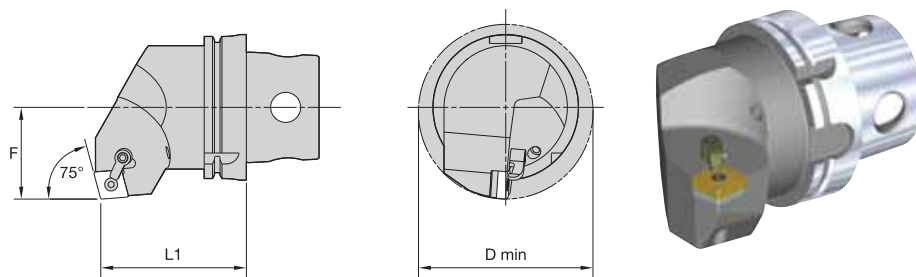
■ DDUN 93°

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		mm	in	mm	in	mm	in						
	right hand												
5345315	KM4X100DDUNR15KC06	100	3.937	63	2.480	120	4.72	DN..150608/DN..442	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M	4,56
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5345314	KM4X100DDUNL15KC06	100	3.937	63	2.480	120	4.72	DN..150608/DN..442	IDSN433	KMSP415IP	CM234R ASSY	SSP025016M	4,56



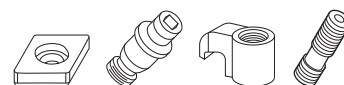


■ MCKN 75°

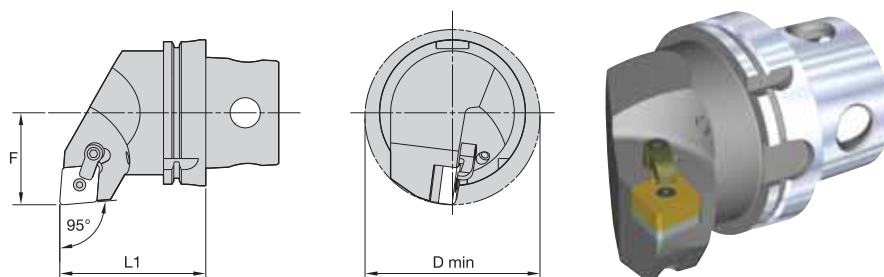


Tooling Systems

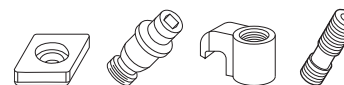
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		mm	in	mm	in	mm	in							
	right hand													
5337807	KM4X100MCKNR19	100	3.937	63	2.480	120	4.724	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	4,80	10.58
	left hand													
5337806	KM4X100MCKNL19	100	3.937	63	2.480	120	4.724	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	4,87	10.74

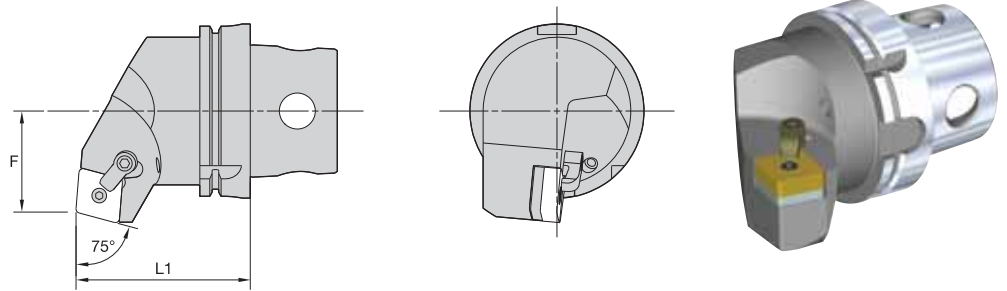


■ MCLN 95°



order number	catalogue number	L1		F		D min		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in							
	right hand													
5337810	KM4X100MCLNR19	100	3.937	63	2.480	120	4.724	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	4,45	9.82
5337811	KM4X100MCLNR25	100	3.937	63	2.480	120	4.724	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	4,48	9.88
	left hand													
5337808	KM4X100MCLNL19	100	3.937	63	2.480	120	4.724	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	4,49	9.89
5337809	KM4X100MCLNL25	100	3.937	63	2.480	120	4.724	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	4,53	9.98

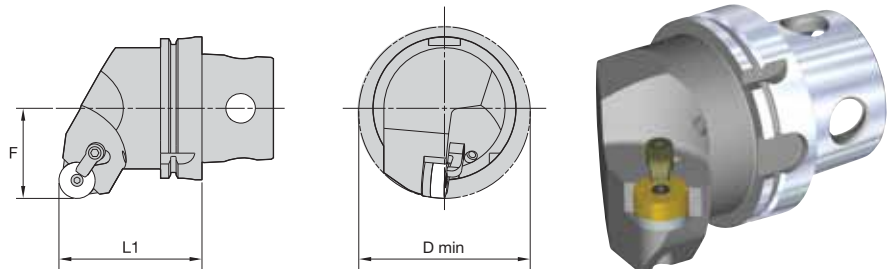



**MCRN 75°**

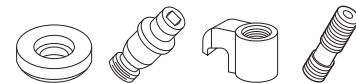
order number	catalogue number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
right hand												
5337814	KM4X100MCRNR19	100	3.937	58	2.283	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	4,47	9.86
5337815	KM4X100MCRNR25	100	3.937	58	2.283	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	4,58	10.09
left hand												
5337812	KM4X100MCRNL19	100	3.937	58	2.283	CN..190612/CN..643	ICSN633	KLM68	CKM12	STCM4	4,53	9.98
5337813	KM4X100MCRNL25	100	3.937	58	2.283	CN..250924/CN..866	ICSN846	KLM810	CKM24	STCM19	4,57	10.06

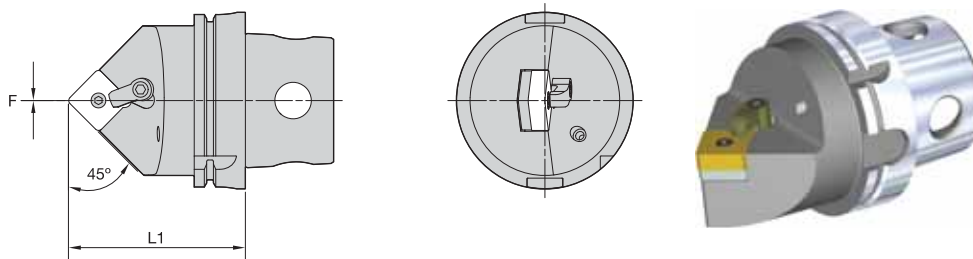


Tooling Systems


**MRGN 0°**

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		mm	in	mm	in	mm	in							
right hand														
5337734	KM4X100MRGNR12	100	3.937	63	2.480	120	4.724	RN..120400/RN..43	IRSN43	KLM46	CKM9	STCM4	1,52	9.97
5337735	KM4X100MRGNR19	100	3.937	63	2.480	120	4.724	RN..190600/RN..64	IRSN63	KLM68	CKM12	STCM4	4,52	9.97
5337736	KM4X100MRGNR25	100	3.937	63	2.480	120	4.724	RN..250900/RN..86	IRSN84	KLM810	CKM24	STCM19	4,55	10.03
left hand														
5337737	KM4X100MRGNL12	100	3.937	63	2.480	120	4.724	RN..120400/RN..43	IRSN43	KLM46	CKM9	STCM4	4,59	10.13
5337738	KM4X100MRGNL19	100	3.937	63	2.480	120	4.724	RN..190600/RN..64	IRSN63	KLM68	CKM20	STCM4	4,60	10.15
5337739	KM4X100MRGNL25	100	3.937	63	2.480	120	4.724	RN..250900/RN..86	IRSN84	KLM810	CKM24	STCM19	4,62	10.20





■ MSDN 45°

Tooling Systems



order number	catalogue number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
5337697	KM4X100MSDNN19	100	3.937	0	.000	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	3,97	8.76
5337698	KM4X100MSDNN25	100	3.937	0	.000	SN..250924/SN..856	ISSN846	KLM810	CKM24	STCM19	3,97	8.76

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

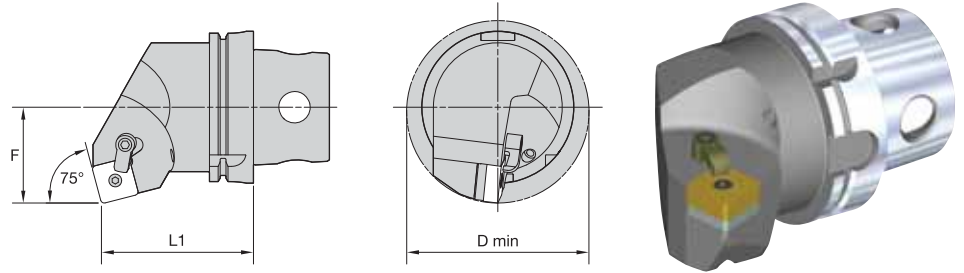


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■ MSKN 75°

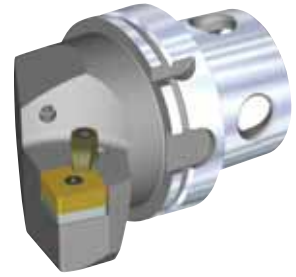
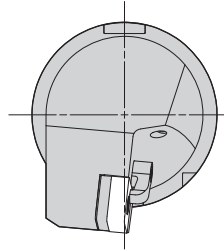
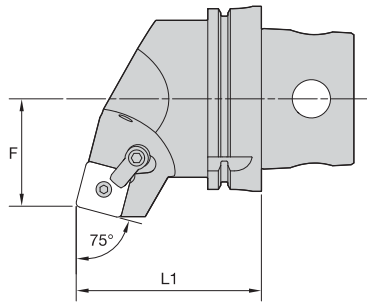


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		mm	in	mm	in	mm	in							
5337711	KM4X100MSKNR19	100	3.937	63	2.480	120	4.724	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	4,59	10.12

Tooling Systems



■ MSRN 75°

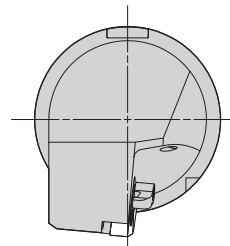
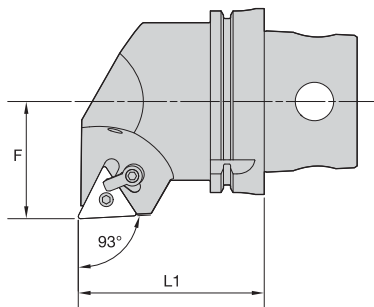


Tooling Systems

order number	catalogue number	L1		F		gage insert	shim	lock pin	clamp	clamp screw	kg	lbs
		mm	in	mm	in							
		right hand										
5337715	KM4X100MSRNR19	100	3.937	58	2.283	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	4,47	9.85
5337716	KM4X100MSRNR25	100	3.937	58	2.283	SN..250924/SN..856	ISSN846	KLM810	CKM24	STCM19	4,46	9.83
		left hand										
5337713	KM4X100MSRNL19	100	3.937	58	2.283	SN..190612/SN..643	ISSN633	KLM68	CKM12	STCM4	4,44	9.78
5337714	KM4X100MSRNL25	100	3.937	58	2.283	SN..250924/SN..856	ISSN846	KLM810	CKM24	STCM19	4,41	9.73

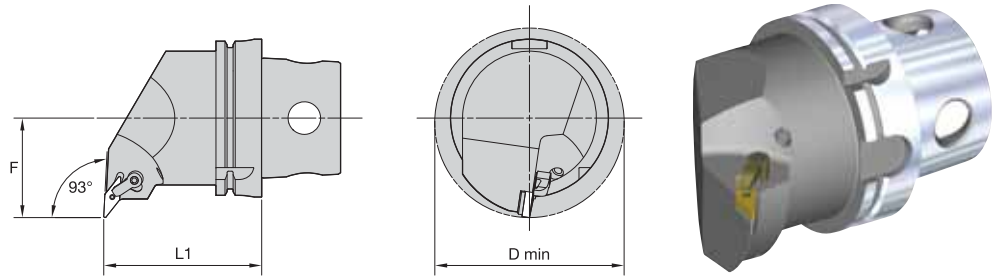


■ MTJN 93°



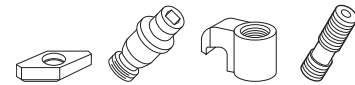
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		mm	in	mm	in							
		right hand										
5337717	KM4X100MTJNR27	100	3.937	63	2.480	TN..270612/TN..543	ITSN534	KLM58	CKM12	STCM4	4,75	10.49
5337718	KM4X100MTJNR33	100	3.937	63	2.480	TN..330912/TN..663	ITSN636	KLM68L	CKM12	STCM4	4,76	10.49
		left hand										
5337719	KM4X100MTJNL27	100	3.937	63	2.480	TN..270612/TN..543	ITSN534	KLM58	CKM12	STCM4	4,82	10.62
5337730	KM4X100MTJNL33	100	3.937	63	2.480	TN..330912/TN..663	ITSN636	KLM68L	CKM12	STCM4	4,79	10.57



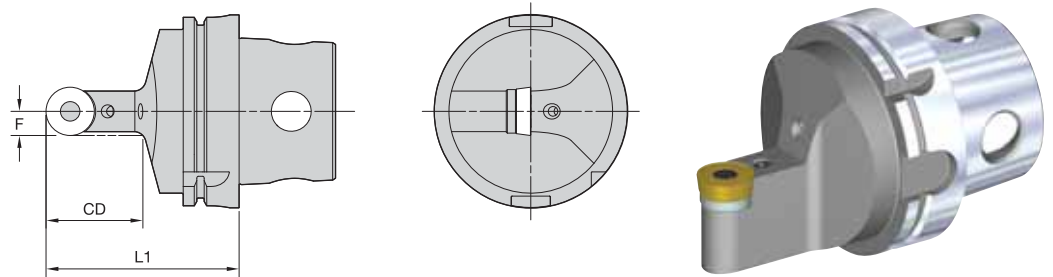


■ MVUN 93°

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		mm	in	mm	in	mm	in							
	right hand													
5337732	KM4X100MVUNR16	100	3.937	63	2.480	120	4.724	VN..160408/VN..332	IVSN322	KLM34L	CKM22	STCM20	4,57	10.08
	left hand													
5337731	KM4X100MVUNL16	100	3.937	63	2.480	120	4.724	VN..160408/VN..332	IVSN322	KLM34L	CKM22	STCM20	4,90	10.81

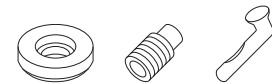


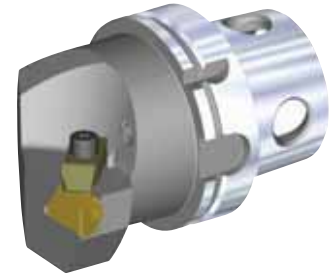
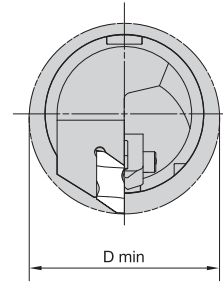
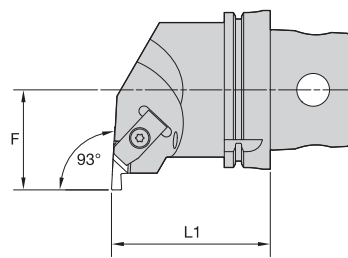
Tooling Systems



■ PRDCN

order number	catalogue number	L1		F		CD		gage insert	shim	clamp screw	clamp stud	kg	lbs
		mm	in	mm	in	mm	in						
	left hand												
5337750	KM4X100PRDCN20	100	3.937	10	.394	40	1.581	RCMT2006M0	169.333	121.820	119.073	3,63	8.00
5337751	KM4X100PRDCN25	100	3.937	13	.492	50	1.975	RCMT2507MORP	169.337	121.820	118.404	3,31	7.29
5337752	KM4X100PRDCN32	110	4.331	16	.630	60	2.368	RCMX3209MORP	169.339	121.030	118.604	3,50	7.93

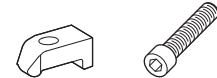


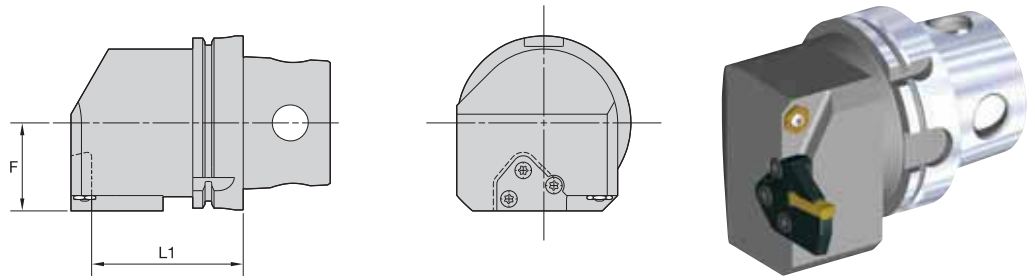


■ NE

Tooling Systems

order number	catalogue number	L1		F		D min		gage insert	clamp	clamp screw	kg	lbs
		mm	in	mm	in	mm	in					
right hand												
5337758	KM4X100NER3	100	3.937	63	2.480	120	4.724	NG3L	CM73	MS1489	4,44	9.79
5337759	KM4X100NER4	100	3.937	63	2.480	120	4.724	NG4L	CM73	MS1489	4,49	9.90
5337770	KM4X100NER5	100	3.937	63	2.480	120	4.724	NG5L	CM81	MS1490	4,59	10.13
5337771	KM4X100NER6	100	3.937	63	2.480	120	4.724	NG6L	CM121	MS1489	4,48	9.88
left hand												
5337754	KM4X100NEL3	100	3.937	63	2.480	120	4.724	NG3R	CM72	MS1489	4,44	9.79
5337755	KM4X100NEL4	100	3.937	63	2.480	120	4.724	NG4R	CM72	MS1489	4,49	9.90
5337756	KM4X100NEL5	100	3.937	63	2.480	120	4.724	NG5R	CM80	MS1490	4,59	10.13
5337757	KM4X100NEL6	100	3.937	63	2.480	120	4.724	NG6R	CM120	MS1489	4,48	9.88

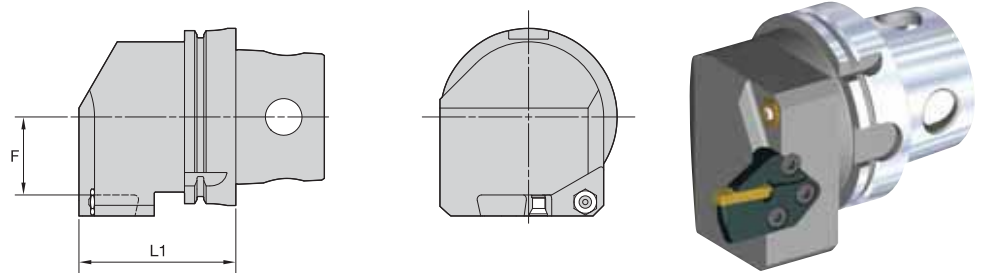



**■ KGME**

order number	catalogue number	L1		F		cartridge size	blade screw	clamp screw	nozzle	kg
		mm	in	mm	in					
right hand										
5337789	KM4X100KGMER50	88	3.47	50,5	1.988	50	—	—	—	4,89
5337800	KM4X100KGMER65C	87	3.43	50,5	1.988	65	—	—	—	5,73
left hand										
5337787	KM4X100KGMEL50	88	3.47	50,5	1.988	50	—	—	—	4,89
5337788	KM4X100KGMEL65C	87	3.43	50,5	1.988	65	—	—	—	5,73

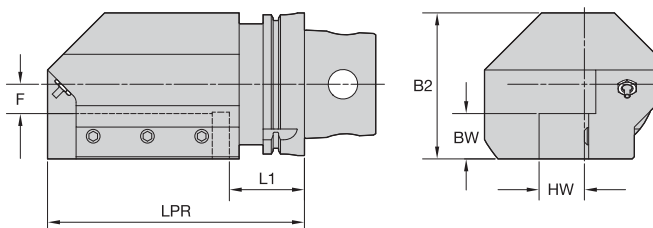
NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalogue Cutting Tools 2013.  
Right-hand cutting units use left-hand blades.

Tooling Systems


**■ KGMS**

order number	catalogue number	L1		F		cartridge size	blade screw	clamp screw	nozzle	kg
		mm	in	mm	in					
right hand										
5337803	KM4X100KGMSR50	89	3.48	51,0	2.008	50	MS1162	MS2002	PMT04525	4,17
5337804	KM4X100KGMSR65C	89	3.48	44,0	1.732	65	—	—	—	5,31
left hand										
5337801	KM4X100KGMSL50	89	3.48	51,0	2.008	50	MS1162	MS2002	PMT04525	4,17
5337802	KM4X100KGMSL65C	89	3.48	44,0	1.732	65	—	—	—	5,31

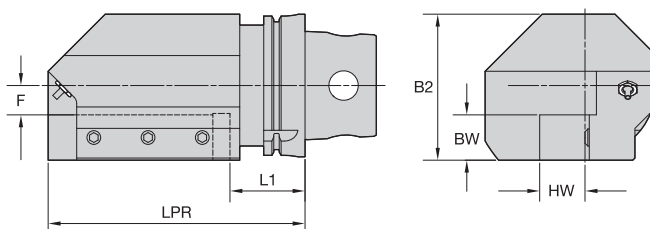
NOTE: For A3/A4 modular blades, see the Kennametal Innovations Master Catalogue Cutting Tools 2013.  
Right-hand cutting units use right-hand blades.



■ STA • Metric

Tooling Systems

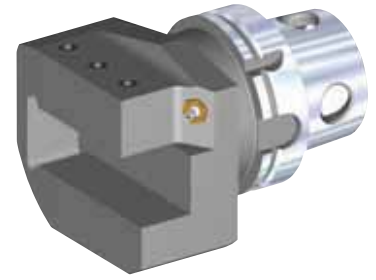
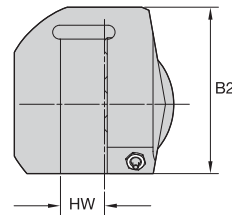
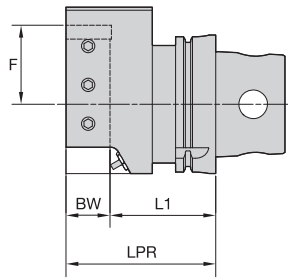
order number	catalogue number	B2	BW	F	HW	L1	LPR	nozzle	kg
right hand									
5337782	KM4X100STAR20	102	32	21	32	53	180	PMT04526	12,09
5337783	KM4X100STAR24	102	38	14	38	53	180	PMT04526	11,61
5337784	KM4X100STAR2525M	102	25	27	25	55	180	PMT04526	12,52
5337785	KM4X100STAR3232M	102	32	20	32	55	180	PMT04526	12,09
left hand									
5337779	KM4X100STAL24	102	38	14	38	53	180	PMT04526	11,61
5337780	KM4X100STAL2525M	102	25	27	25	55	180	PMT04526	12,52
5337781	KM4X100STAL3232M	102	32	20	32	55	180	PMT04526	12,09



■ STA • Inch

order number	catalogue number	B2	BW	F	HW	L1	LPR	nozzle	lbs
right hand									
5337782	KM4X100STAR20	4.028	1.250	.809	1.250	2.071	7.087	PMT04526	26.66
5337783	KM4X100STAR24	4.028	1.500	.559	1.500	2.071	7.087	PMT04526	25.60
5337784	KM4X100STAR2525M	4.028	.984	1.075	.984	2.165	7.087	PMT04526	27.60
5337785	KM4X100STAR3232M	4.028	1.260	.799	1.260	2.165	7.087	PMT04526	26.67
left hand									
5337779	KM4X100STAL24	4.028	1.500	.559	1.500	2.071	7.087	PMT04526	25.60
5337780	KM4X100STAL2525M	4.028	.984	1.075	.984	2.165	7.087	PMT04526	27.60
5337781	KM4X100STAL3232M	4.028	1.260	.799	1.260	2.165	7.087	PMT04526	26.67



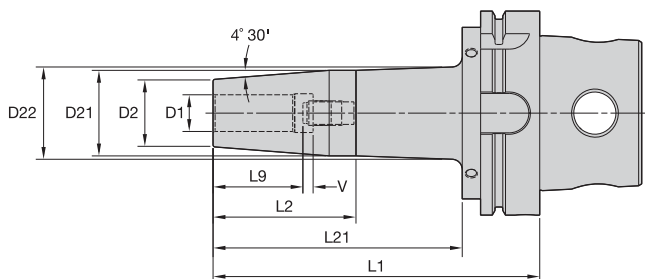


■ ETA • Inch



order number	catalogue number	B2	BW	F	HW	L1	LPR	nozzle	lbs
5337778	right hand KM4X100ETAR20	4.724	1.250	-2.244	1.250	3.002	4.252	PMT04526	16.52
5337777	left hand KM4X100ETAL20	4.724	1.250	-2.244	1.250	3.002	4.252	PMT04526	16.52

Tooling Systems



- 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

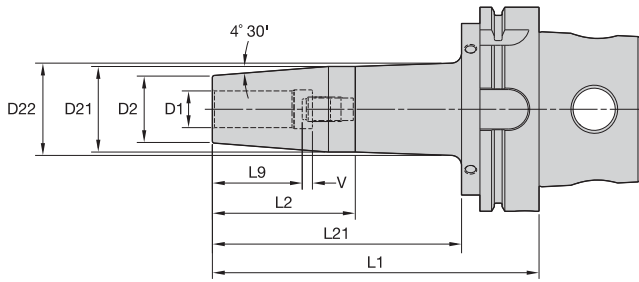
Tooling Systems

■ TT GP HPV MM-KM4X • Metric



order number	catalogue 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.



- 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/- .0004
7/16, 1/2, 9/16, 5/8, & 11/16	.0000/- .0004
3/4, 7/8, 1, 1-1/4, 1-1/2, & 2	.0000/- .0005

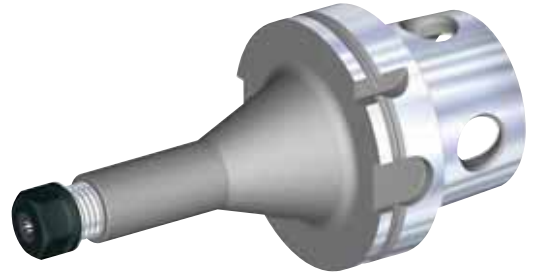
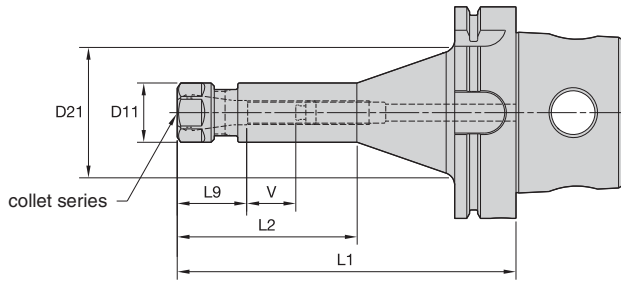
■ TT GP HPV IN-KM4X • Inch

order number	catalogue 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.

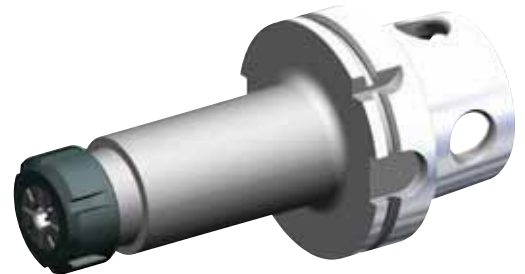
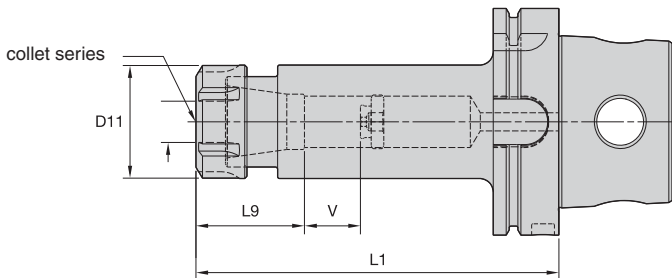


- Grip (2:1 advantage).

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

### ER Hex-KM4X

order number	catalogue 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	LNHSER16M	OEW25M	56	SS044038G	4mm & 5/32
4160000	KM4X100ER16160M	ER16	28	60	160	85	32	68	LNHSER16M	OEW25M	56	SS044038G	4mm & 5/32
4160001	KM4X100ER20100M	ER20	34	—	100	—	36	35	LNHSER20M	OEW30M	80	SS056041G	4mm & 5/32

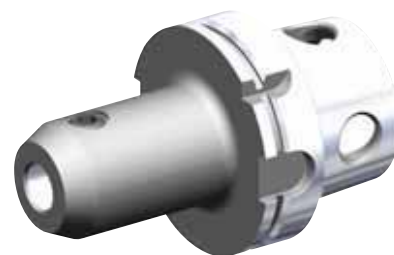
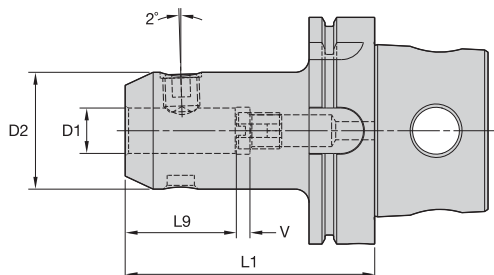


### ER Round-KM4X

order number	catalogue number	collet series	D11	L1	L9	V	locknut	locknut wrench	Nm	stop screw	wrench size stop screw
4160002	KM4X100ER25100M	ER25	42	100	40	33	LNSER25M	ER25WM	104	SS075041G	4mm & 5/32
4160043	KM4X100ER32100M	ER32	50	100	45	32	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
4160044	KM4X100ER32160M	ER32	50	160	45	92	LNSER32M	ER32WM	136	SS094041G	4mm & 5/32
4160045	KM4X100ER40120M	ER40	63	120	52	38	LNSER40M	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.



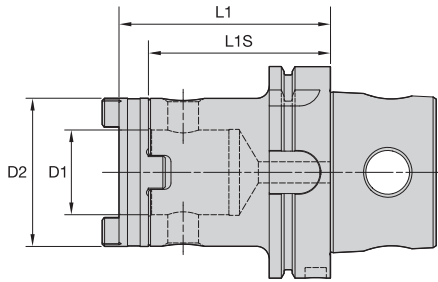


■ WN MM-KM4X • Metric

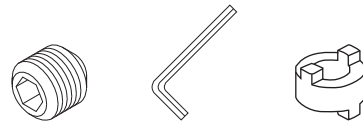
Tooling Systems

order number	catalogue 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.



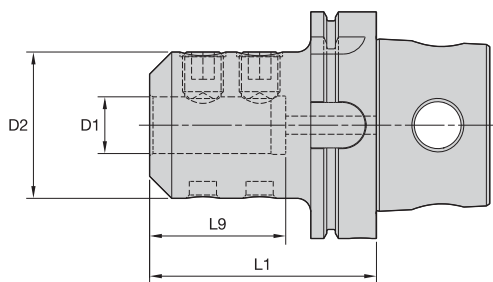
■ HTS-KM4X



order number	catalogue 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.

Tooling Systems

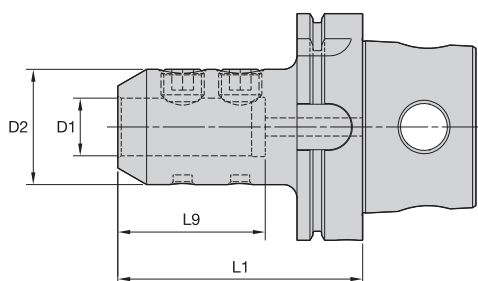


■ **EM MM-KM4X • Metric**



order number	catalogue 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

Tooling Systems

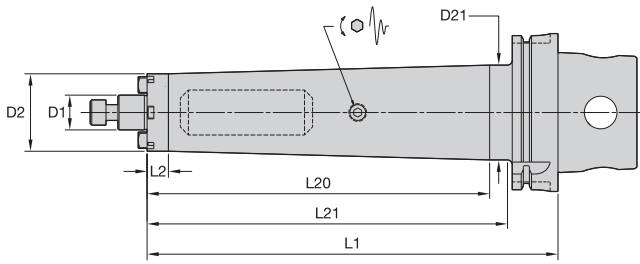


■ **EM IN-KM4X • Inch**



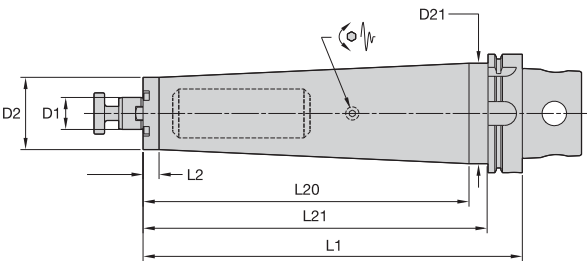
order number	catalogue number	D1	D2	L1	L9	clamp screw	wrench size clamp screw	ft. lbs.
4160518	KM4X100EM025300	1/4	1.000	3.000	1.89	ELS025025	1/8	8
4160519	KM4X100EM038300	3/8	1.000	3.000	1.89	ELS038031	3/16	15
4160520	KM4X100EM050325	1/2	1.375	3.250	1.97	ELS044038	7/32	20
4160521	KM4X100EM062375	5/8	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.



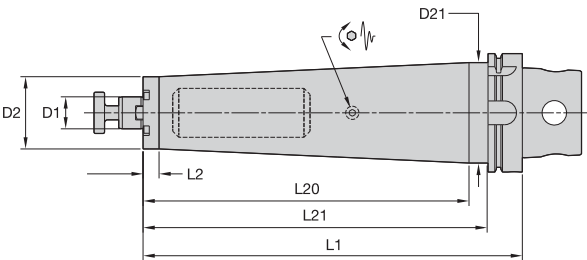
■ SMC TD CAP MM-KM4X • Metric

order number	catalogue 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	catalogue 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



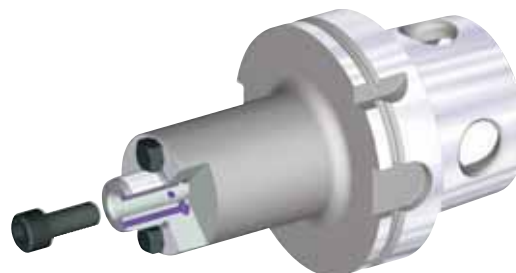
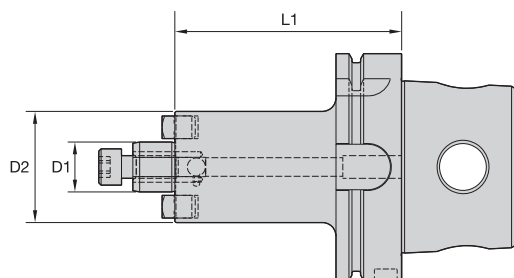
■ SMC TD Lock IN-KM4X • Inch

order number	catalogue 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.

Tooling Systems

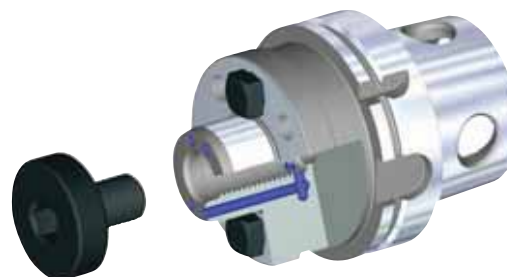
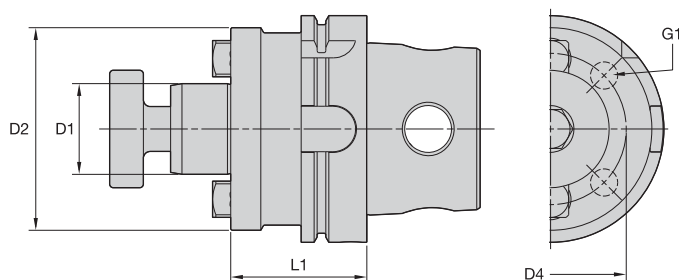


■ **SMC CAP MM-KM4X • Metric**

order number	catalogue 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



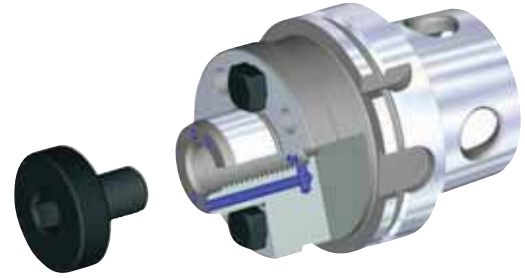
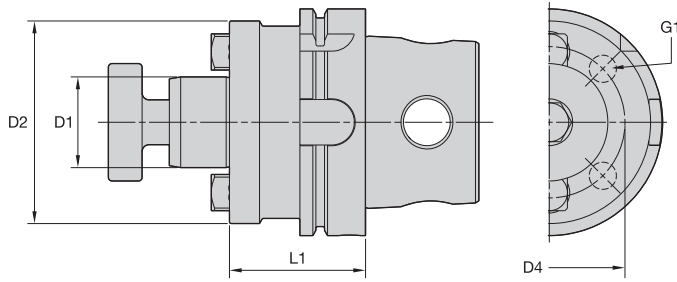
Tooling Systems



■ **SMC Lock MM-KM4X • Metric**

order number	catalogue 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	KLS50M	SMW50M
4160351	KM4X100SMC50100M	50	98	—	—	100	KLS50M	SMW50M
4160352	KM4X100SMC50160M	50	98	—	—	160	KLS50M	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	—	—





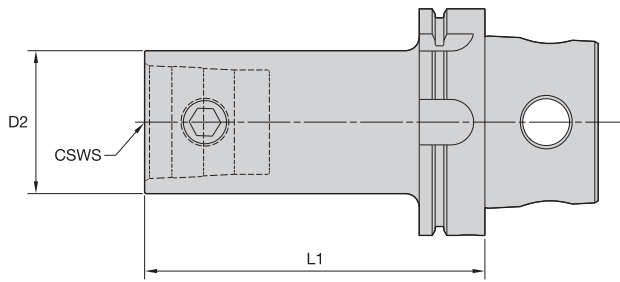
■ SMC Lock IN-KM4X • Inch



order number	catalogue 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.

Tooling Systems

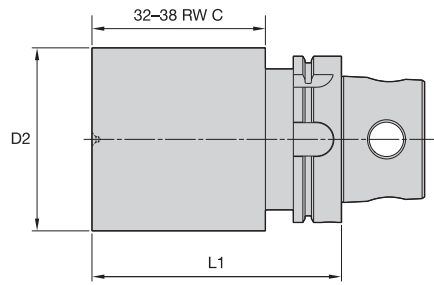


**KM-KM4X**

Tooling Systems

order number	catalogue 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

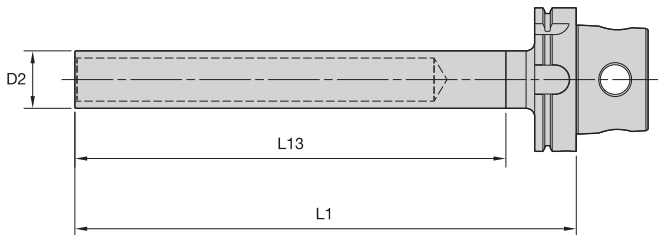
NOTE: Do not overtorque actuation screw; use torque recommendations above.  
Supplied with KM actuation mechanism.



- Machinable front 32–38 RW C.

■ **BB-KM4X**

order number	catalogue 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.

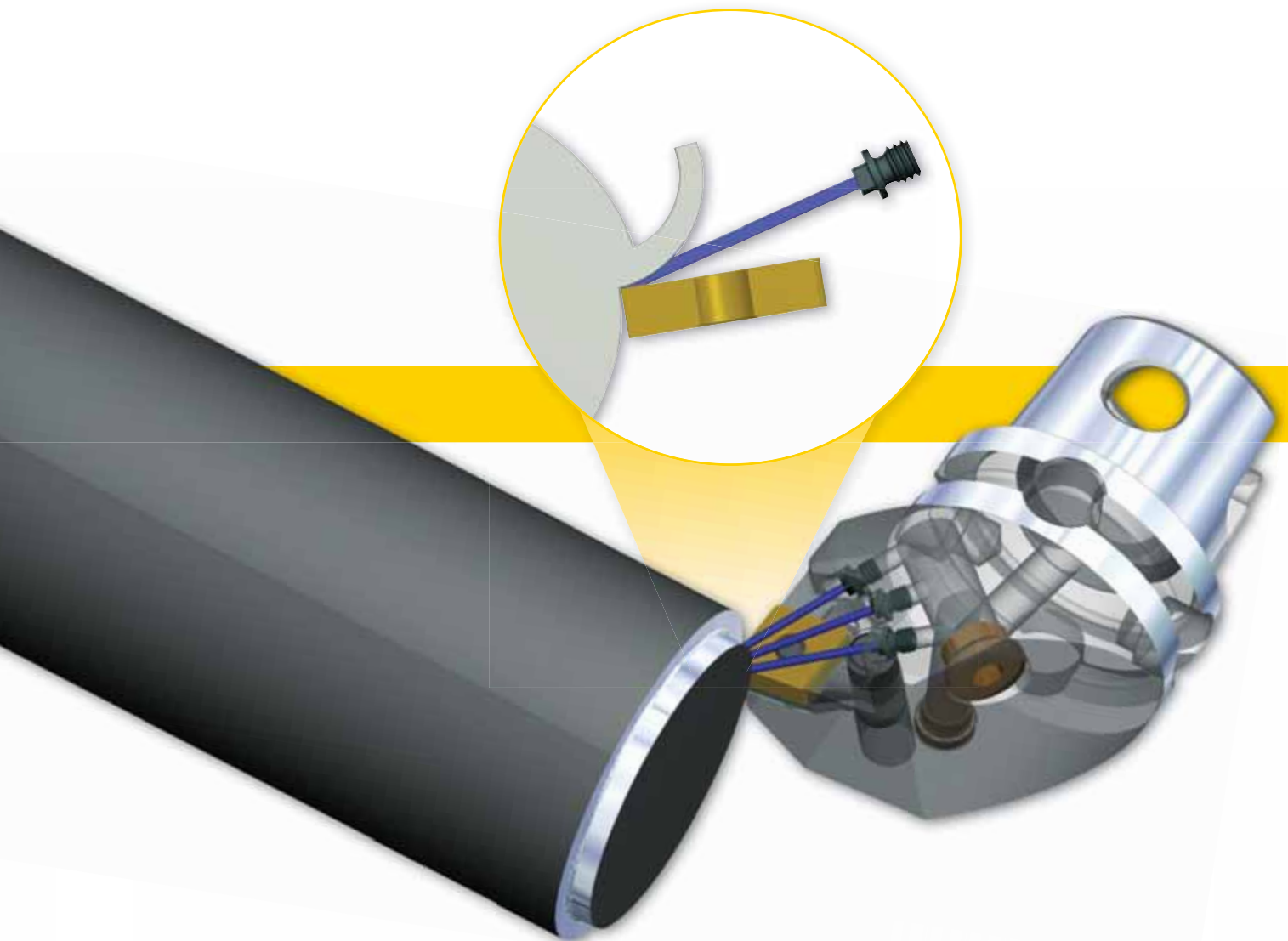
■ **GB-KM4X**

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



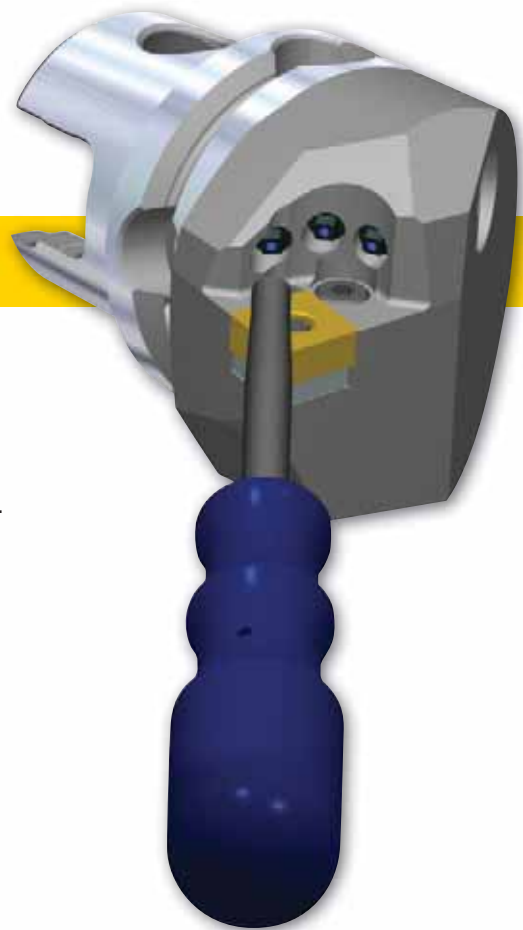


# KM4X™ and KM™ High-Pressure Coolant Adapted Cutting Units



## KM™ High-Pressure Cutting Unit Aspects and Metal Removal Benefits

- Directional coolant streams create enhanced chip evacuation.
  - Less re-cutting of chips promotes longer tool life.
- Strength and rigidity of industry-leading KM4X™ and ISO KM clamping.
  - Increased cutting speeds and finished part quality.
- Increased insert edge security.
  - Predictable tool life and reliability for worry-free operation.
- KM4X and KM Quick Change capability.
  - Dramatically reduces insert indexing time.
- Significant increases in tool life.
  - Considerable reduction in cost per piece enhancing profitability.
- Replaceable nozzles for continued effective operation.
  - Longer lifecycle of tool promotes lower replacement costs.

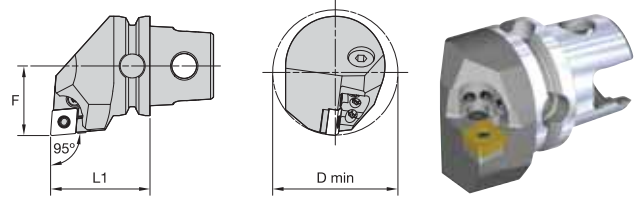


### Machine Integration

- Industry-leading KM4X and ISO KM clamping units.
- Simple machine adaptability with standard turret adapted clamping blocks.
- Designed for coolant pressures up to 150 bar (2200 psi).

### Application

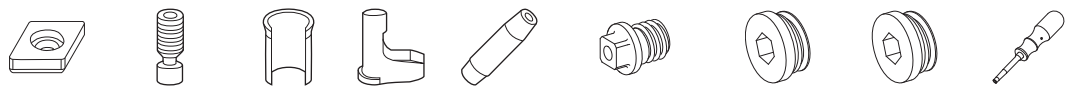
- High-performance metal removal operations with coolant.



■ PCLN 95° • HPC

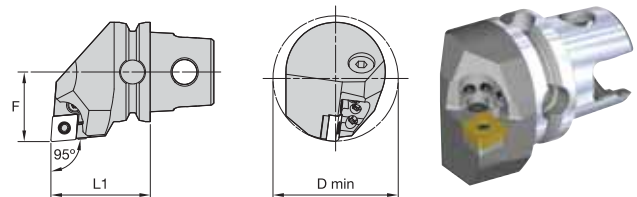
order number	catalogue number	L1		F		D min		gage insert	kg	lbs
		mm	in	mm	in	mm	in			
right hand 5697126	KM50TSPCLNR12HPC	50	1.969	35	1.378	63	2.480	CN..120408/CN..432	0,67	1.49
left hand 5697127	KM50TSPCLNL12HPC	50	1.969	35	1.378	63	2.480	CN..120408/CN..432	0,67	1.49

■ Spare Parts



catalogue number	shim	lever screw	shim pin	toggle lever	punch	coolant nozzle	coolant plug	coolant plug	nozzle driver
right hand KM50TSPCLNR12HPC	512.112	514.123	513.023	511.023	515.018	NZLM4060140	PMP08360	PMP08361	NDS027M
left hand KM50TSPCLNL12HPC	512.112	514.123	513.023	511.023	515.018	NZLM4060140	PMP08360	PMP08361	NDS027M

NOTE: Nozzle driver must be purchased separately.  
Coolant nozzles with various orifice diameters are available.



■ PCLN 95° • HPC

order number	catalogue number	L1		F		D min		gage insert	kg	lbs
		mm	in	mm	in	mm	in			
right hand 5697235	KM63TSPCLNR12HPC	60	2.362	43	1.693	80	3.150	CN..120408/CN..432	1,33	2.93
5697237	KM63TSPCLNR16HPC	60	2.362	43	1.693	80	3.150	CN..160612/CN..543	1,31	2.88
left hand 5697236	KM63TSPCLNL12HPC	60	2.362	43	1.693	80	3.150	CN..120408/CN..432	1,33	2.93
5697238	KM63TSPCLNL16HPC	60	2.362	43	1.693	80	3.150	CN..160612/CN..543	1,31	2.88

(continued)

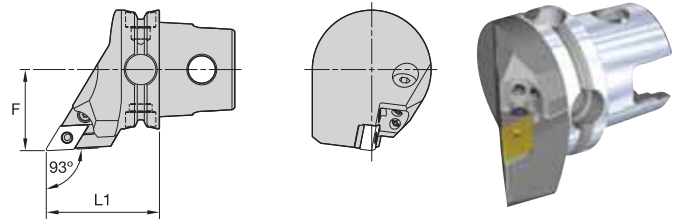
(PCLN 95° • HPC – continued)

**Spare Parts**

catalogue number	shim	lever screw	shim pin	toggle lever	punch	coolant nozzle	coolant plug	coolant plug	nozzle driver
<b>right hand</b>									
KM63TSPCLNR12HPC	512.112	514.123	513.023	511.023	515.018	NZLM4060140	PMP08352	PMP08360	NDS027M
KM63TSPCLNR16HPC	512.117	514.125	513.025	511.025	515.022	NZLM4060140	PMP08352	PMP08360	NDS027M
<b>left hand</b>									
KM63TSPCLNL12HPC	512.112	514.123	513.023	511.023	515.018	NZLM4060140	PMP08352	PMP08360	NDS027M
KM63TSPCLNL16HPC	512.117	514.125	513.025	511.025	515.022	NZLM4060140	PMP08352	PMP08360	NDS027M

 NOTE: Nozzle driver must be purchased separately.  
 Coolant nozzles with various orifice diameters are available.

P-Clamping

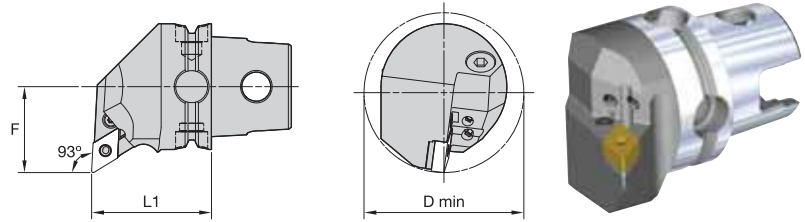

**PDJN 93° • HPC**

order number	catalogue number	L1		F		gage insert	kg	lbs
		mm	in	mm	in			
<b>right hand</b>								
5697239	KM63TSPDJNR15HPC	60	2.362	43	1.693	DN..150608/DN..442	1,01	2.22
<b>left hand</b>								
5697260	KM63TSPDJNL15HPC	60	2.362	43	1.693	DN..150608/DN..442	1,01	2.22

**Spare Parts**

catalogue number	shim	lever screw	shim pin	toggle lever	punch	coolant nozzle	coolant plug	coolant plug	nozzle driver
<b>right hand</b>									
KM63TSPDJNR15HPC	512.153	514.128	513.023	511.024	515.018	NZLM4060140	PMP08360	PMP08361	NDS027M
<b>left hand</b>									
KM63TSPDJNL15HPC	512.153	514.128	513.023	511.024	515.018	NZLM4060140	PMP08360	PMP08361	NDS027M

 NOTE: Nozzle driver must be purchased separately.  
 Coolant nozzles with various orifice diameters are available.



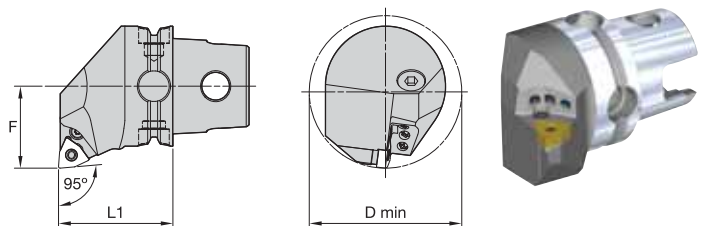
■ **PDUN 93° • HPC**

order number	catalogue number	L1		F		D min		gage insert	kg	lbs
		mm	in	mm	in	mm	in			
right hand 5697261	KM63TSPDUNR15HPC	60	2.362	43	1.693	80	3.150	DN..150608/DN..442	1,28	2.83
left hand 5697262	KM63TSPDUNL15HPC	60	2.362	43	1.693	80	3.150	DN..150608/DN..442	1,28	2.83

■ **Spare Parts**

catalogue number	shim	lever screw	shim pin	toggle lever	punch	coolant nozzle	coolant plug	coolant plug	nozzle driver
right hand KM63TSPDUNR15HPC	512.153	514.128	513.023	511.024	515.018	NZLM4060140	PMP08352	PMP08360	NDS027M
left hand KM63TSPDUNL15HPC	512.153	514.128	513.023	511.024	515.018	NZLM4060140	PMP08352	PMP08360	NDS027M

NOTE: Nozzle driver must be purchased separately.  
Coolant nozzles with various orifice diameters are available.



■ **PWLN 95° • HPC**

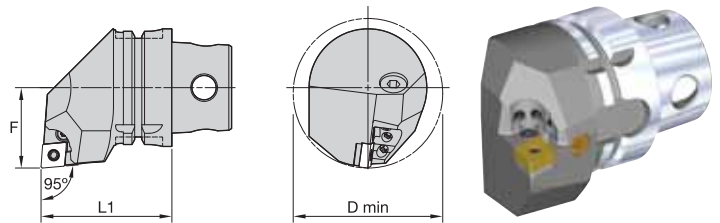
order number	catalogue number	L1		F		D min		gage insert	kg	lbs
		mm	in	mm	in	mm	in			
right hand 5697263	KM63TSPWLNRO8HPC	60	2.362	43	1.693	80	3.150	WN..080408/WN..432	1,34	2.96
left hand 5697264	KM63TSPWLNLO8HPC	60	2.362	43	1.693	80	3.150	WN..080408/WN..432	1,34	2.96

(continued)

(PWLN 95° • HPC – continued)

**Spare Parts**

catalogue number	shim	lever screw	shim pin	toggle lever	punch	coolant nozzle	coolant plug	coolant plug	coolant plug	nozzle driver
<b>right hand</b>										
KM63TSPWLN08HPC	512.135	514.123	513.023	511.023	515.018	NZLM4060140	PMP08352	PMP08360	PMP08360	NDS027M
<b>left hand</b>										
KM63TSPWLN08HPC	512.135	514.123	513.023	511.023	515.018	NZLM4060140	PMP08352	PMP08360	PMP08360	NDS027M

 NOTE: Nozzle driver must be purchased separately.  
 Coolant nozzles with various orifice diameters are available.


Tooling Systems

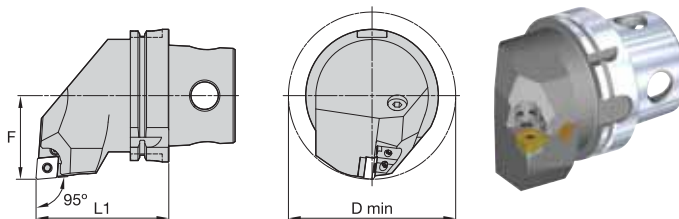
**PCLN 95° • HPC**

order number	catalogue number	L1		F		D min		gage insert	kg	lbs
		mm	in	mm	in	mm	in			
<b>right hand</b>										
5720353	KM4X63PCLNR12HPC	70	2.756	43	1.693	80	3.150	CN..120408/CN..432	1,51	3.33
5720355	KM4X63PCLNR16HPC	70	2.756	43	1.693	80	3.150	CN..160612/CN..543	1,49	3.28
<b>left hand</b>										
5720354	KM4X63PCLNL12HPC	70	2.756	43	1.693	80	3.150	CN..120408/CN..432	1,51	3.33
5720356	KM4X63PCLNL16HPC	70	2.756	43	1.693	80	3.150	CN..160612/CN..543	1,49	3.28

**Spare Parts**

catalogue number	shim	lever screw	shim pin	toggle lever	punch	coolant nozzle	coolant plug	coolant plug	coolant plug	nozzle driver
<b>right hand</b>										
KM4X63PCLNR12HPC	512.112	514.123	513.023	511.023	515.018	NZLM4060140	PMP08352	PMP08360	PMP08361	NDS027M
KM4X63PCLNR16HPC	512.117	514.125	513.025	511.025	515.022	NZLM4060140	PMP08352	PMP08360	PMP08361	NDS027M
<b>left hand</b>										
KM4X63PCLNL12HPC	512.112	514.123	513.023	511.023	515.018	NZLM4060140	PMP08352	PMP08360	PMP08361	NDS027M
KM4X63PCLNL16HPC	512.117	514.125	513.025	511.025	515.022	NZLM4060140	PMP08352	PMP08360	PMP08361	NDS027M

 NOTE: Nozzle driver must be purchased separately.  
 Coolant nozzles with various orifice diameters are available.



■ PCLN 95° • HPC

order number	catalogue number	L1		F		D min		gage insert	kg	lbs
		mm	in	mm	in	mm	in			
right hand										
5697311	KM4X100PCLNR16HPC	100	3.937	63	2.480	120	4.724	CN..160612/CN..543	4,81	10.60
5697313	KM4X100PCLNR19HPC	100	3.937	63	2.480	120	4.724	CN..190612/CN..643	4,76	10.50
left hand										
5697312	KM4X100PCLNL16HPC	100	3.937	63	2.480	120	4.724	CN..160612/CN..543	4,81	10.60
5697314	KM4X100PCLNL19HPC	100	3.937	63	2.480	120	4.724	CN..190612/CN..643	4,76	10.50

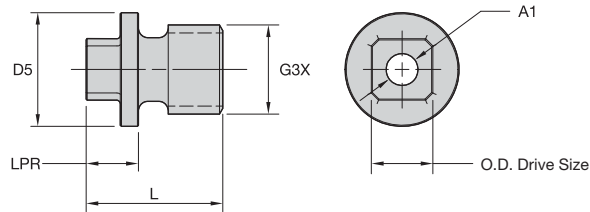
■ Spare Parts

catalogue number	shim	lever screw	shim pin	toggle lever	punch	coolant nozzle	coolant plug	coolant plug	nozzle driver
right hand									
KM4X100PCLNR16HPC	512.117	514.125	513.025	511.025	515.022	NZLM4060140	PMP08352	PMP08360	NDS027M
KM4X100PCLNR19HPC	512.123	514.133	513.033	511.033	515.022	NZLM4060140	PMP08352	PMP08360	NDS027M
left hand									
KM4X100PCLNL16HPC	512.117	514.125	513.025	511.025	515.022	NZLM4060140	PMP08352	PMP08360	NDS027M
KM4X100PCLNL19HPC	512.123	514.133	513.033	511.033	515.022	NZLM4060140	PMP08352	PMP08360	NDS027M

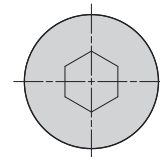
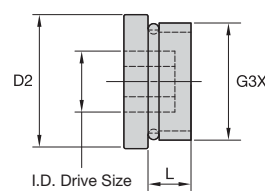
NOTE: Nozzle driver must be purchased separately.  
Coolant nozzles with various orifice diameters are available.

Tooling Systems

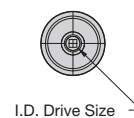
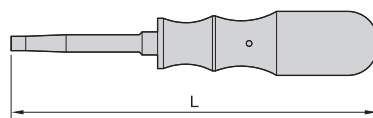



**■ NZL • Coolant Nozzles**

order number	catalogue number	D5		G3X	L		LPR		A1		O.D. drive size
		mm	in		mm	in	mm	in	mm	in	
5903994	NZLM4060080	5	.20	M4X0.7	6	.24	2	.09	0,8	.031	2.7 mm Sq
5903918	NZLM4060100	5	.20	M4X0.7	6	.24	2	.09	1,0	.039	2.7 mm Sq
5903919	NZLM4060120	5	.20	M4X0.7	6	.24	2	.09	1,2	.047	2.7 mm Sq
5903920	NZLM4060140	5	.20	M4X0.7	6	.24	2	.09	1,4	.055	2.7 mm Sq
5903991	NZLM4060160	5	.20	M4X0.7	6	.24	2	.09	1,6	.063	2.7 mm Sq
5903992	NZLM4060180	5	.20	M4X0.7	6	.24	2	.09	1,8	.071	2.7 mm Sq


**■ PMP • Coolant Plugs**

order number	catalogue number	D2		G3X	L		I.D. drive size	in. lbs.	Nm
		mm	in		mm	in			
5903996	PMP08361	10	.38	5/16-24 UNJF	6	.23	4 mm	40	4
5903995	PMP08360	13	.50	7/16-20 UNJF	6	.25	5 mm	40	4
5903993	PMP08352	14	.56	1/2-20 UNJF	6	.25	6 mm	60	6


**■ NDS • Nozzle Driver**

order number	catalogue number	L		I.D. drive size
		mm	in	
5882329	NDS027M	127	5.00	2.7 mm Sq

## ERICKSON™ HSK Shank Tooling System • HSK63A Series

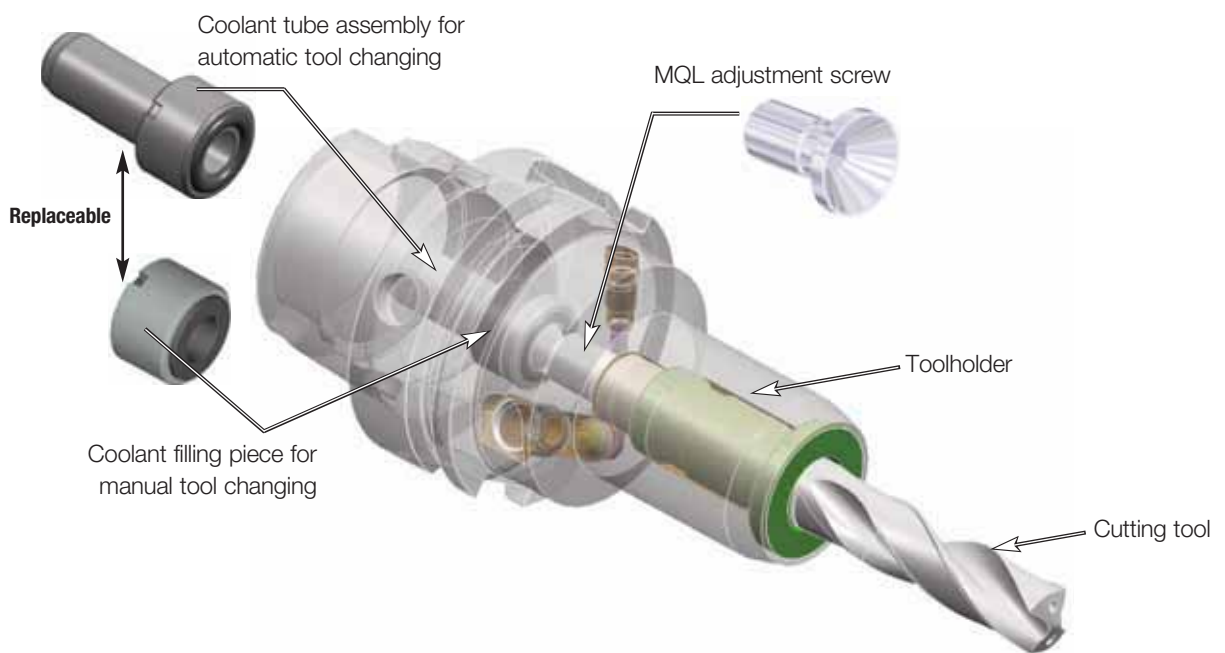
### Primary Application

Kennametal has further developed their successful products, hydraulic chucks and Shrink Fit toolholders, by replacing the individual components for use in wet, dry, and MQL (Minimum Quantity Lubrication) machining applications. The HSK63A Series, well known in the automotive industry, is mainly used for holemaking applications. In dry/MQL machining, more than 70% of the heat is dissipated by the chips, creating less abrasive wear.

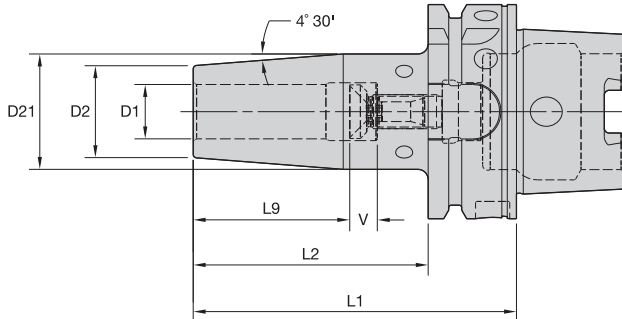
## Features and Benefits

- DIN 69090 1–3 standard.
- Open-source solution.
- Universal for wet, MQL, or dry machining.
- Designed for all straight shanks.
- Equal dimensions for wet and MQL tools.





- 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
3	h4 0,000/-0,003
4	h4 0,000/-0,004
5	h5 0,000/-0,005
6	h6 0,000/-0,008
8 & 10	h6 0,000/-0,009
12, 14, 16, & 18	h6 0,000/-0,011
20 & 25	h6 0,000/-0,013
32	h6 0,000/-0,016

## ERICKSON

■ HPVTT • MQL • Metric



order number	catalogue number	D1	D2	D21	L1	L2	L9	V	screw	wrench size stop screw	kg
5008181	HSK63AHPVTTMQL1C06080M	6	21	27	80	54	26	10,0	06ASMQL1C05170M	2.5 mm	0,82
5008182	HSK63AHPVTTMQL1C08080M	8	21	27	80	54	26	10,0	08ASMQL1C06180M	3 mm	0,82
5008183	HSK63AHPVTTMQL1C10085M	10	24	32	85	59	31	10,0	10ASMQL1C08180M	4 mm	0,90
5008184	HSK63AHPVTTMQL1C12090M	12	24	32	90	64	36	10,0	12ASMQL1C10180M	5 mm	0,91
5008185	HSK63AHPVTTMQL1C14090M	14	27	34	90	64	36	10,0	14ASMQL1C10195M	5 mm	0,96
5008186	HSK63AHPVTTMQL1C16095M	16	27	34	95	69	39	10,0	16ASMQL1C10220M	5 mm	0,97
5008187	HSK63AHPVTTMQL1C18095M	18	33	42	95	69	39	10,0	18ASMQL1C10220M	5 mm	1,14
5008188	HSK63AHPVTTMQL1C20100M	20	33	42	100	74	41	10,0	20ASMQL1C10235M	5 mm	1,16
5008189	HSK63AHPVTTMQL1C25115M	25	44	53	115	89	47	10,0	25ASMQL1C10275M	5 mm	1,73
5008210	HSK63AHPVTTMQL1C32120M	32	44	53	120	94	51	10,0	32ASMQL1C10305M	5 mm	1,61

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

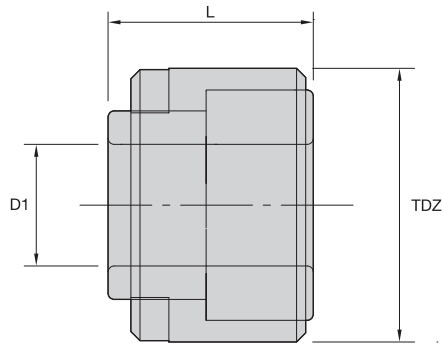
Supplied with adjusting stop screw.

Optional M6~1.0P x 5mm 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.

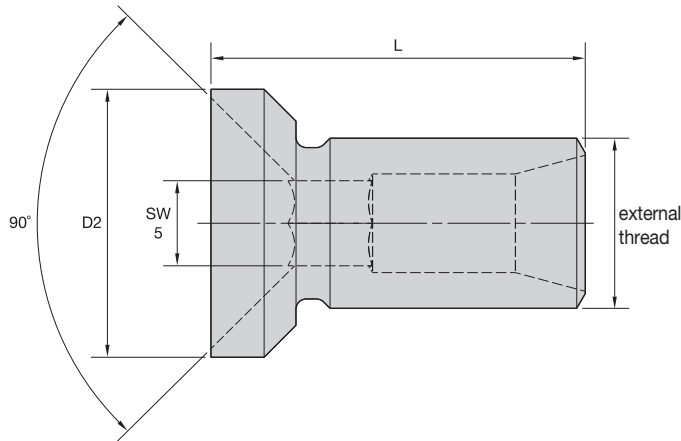
Shank of the cutting tool according to DIN 69090.



■ FP • MQL

order number	catalogue number	D1		L		TDZ
		mm	in	mm	in	
5086819	HSK40AFPMQL1C050095M	5,00	.197	9,50	.374	M12 X 1.0
5086840	HSK50AFPMQL1C064115M	6,40	.252	11,50	.453	M16 X 1.0
5086841	HSK63AFPMQL1C080135M	8,00	.315	13,50	.532	M18 X 1.0
5086842	HSK80AFPMQL1C080155M	8,00	.315	15,50	.610	M20 X 1.5
5086843	HSK100AFPMQL1C080175M	8,00	.315	17,50	.689	M24 X 1.5

Tooling Systems



■ AS • MQL

order number	catalogue number	D2		L		external thread size	I.D. drive size
		mm	in	mm	in		
5086710	06ASML1C05170M	6	.226	17,00	.669	M5	2.5 mm
5086711	08ASML1C06180M	8	.305	18,00	.709	M6	3 mm
5086712	10ASML1C08180M	10	.384	18,00	.709	M8 X 1	4 mm
5086713	12ASML1C10180M	12	.463	18,00	.709	M10 X 1	5 mm
5086714	14ASML1C10195M	14	.541	19,50	.768	M10 X 1	5 mm
5086715	16ASML1C10220M	16	.620	22,00	.866	M10 X 1	5 mm
5086716	18ASML1C10220M	18	.699	22,00	.866	M10 X 1	5 mm
5086717	20ASML1C10235M	20	.778	23,50	.925	M10 X 1	5 mm
5086718	25ASML1C10275M	25	1.026	27,50	1.083	M10 X 1	5 mm
5086719	32ASML1C10305M	32	1.250	30,50	1.201	M10 X 1	5 mm

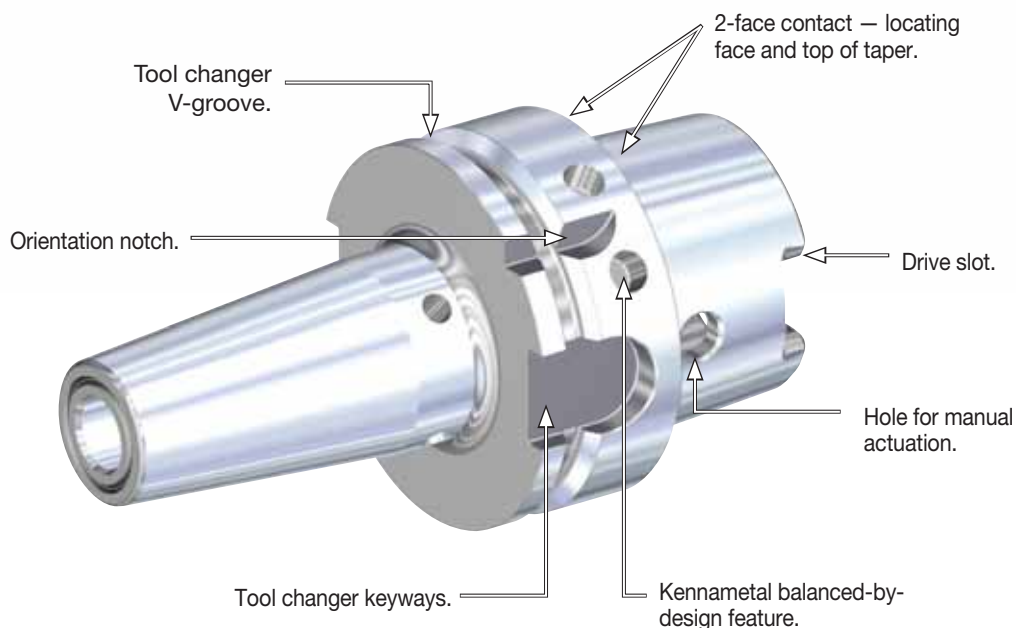
## ERICKSON™ HSK Shank Tooling System • HSK125 Series

### Primary Application

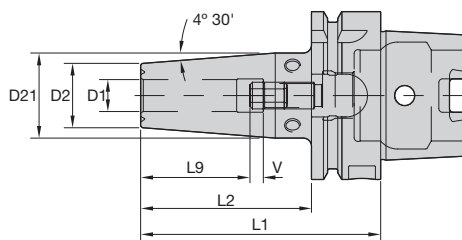
ERICKSON HSK Face Contact Short Taper Tooling is manufactured from premium materials and to the latest DIN/ISO specification standards. Form A versions are generally used in machining centres and milling machines with automatic tool changers. The HSK125 tools are either pre-balanced to a high specification or balanced by design. For high-speed applications Kennametal recommends that the complete toolholder assembly (toolholder, coolant tubes, collets, hardware, and cutting tools) be balanced as one entity. Exact RPM limits can only be determined by considering machine and spindle configurations in conjunction with tooling design and safety limits factored as a complete system.

### Features and Benefits

- ISO 12164-1/DIN 69893-1 Form A 1:10 short taper.
- High axial and radial repeatability compared to CAT, BT, and DV V-flange 7/24 taper tooling.
- Maximum 100 bar (1,500 psi) coolant pressure.



- 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
20 & 25	h6	0,000/-0,013
32	h6	0,000/-0,016

Tooling Systems

**ERICKSON**

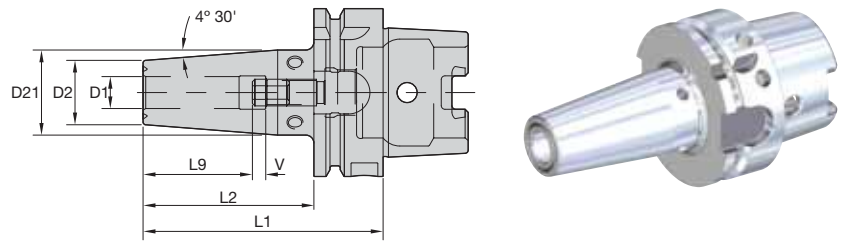
■ HPVTT HT • Metric

order number	catalogue number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	kg
5884436	HSK125AHPVTHT20115M	20	33	42	115	86	41	10	TTSS16014M	8 mm	3,94
5884437	HSK125AHPVTHT25115M	25	44	53	115	86	47	10	TTSS16014M	8 mm	4,37
5884438	HSK125AHPVTHT32120M	32	44	53	120	91	51	10	TTSS16014M	8 mm	4,29



NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.  
 Shrink Fit technical section, see page M78 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Supplied with stop screw.  
 Adjusting stop screw gage, see page M81 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Shrink Fit accessories, see pages L2–L13 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Optional M6~1.0P x 5mm 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 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.

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



Cutting Tool Shank Requirements  
inch (industry standard)

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

## ERICKSON

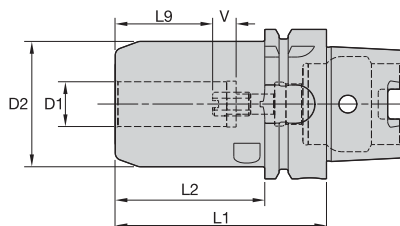
### ■ HPVTT HT • Inch

order number	catalogue number	D1	D2	D21	L1	L2	L9	V	stop screw	wrench size stop screw	lbs
5884439	HSK125AHPVTTHT075453	3/4	1.30	1.65	4.53	3.39	1.61	.39	TTSS16014M	8 mm	8.72
5884440	HSK125AHPVTTHT100453	1	1.73	2.08	4.53	3.39	1.85	.39	TTSS16014M	8 mm	9.63
5884551	HSK125AHPVTTHT125472	1 1/4	1.73	2.08	4.72	3.59	2.01	.39	TTSS16014M	8 mm	9.35
5884552	HSK125AHPVTTHT150551	1 1/2	2.36	2.75	5.51	4.37	2.01	.39	TTSS20014M	10 mm	12.59
5884553	HSK125AHPVTTHT200551	2	2.72	3.11	5.51	4.37	2.20	.39	TTSS20014M	10 mm	13.43

NOTE: Do not overheat. Overheating will destroy the accuracy and functionality of the toolholder.  
 Shrink Fit technical section, see page M78 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Supplied with stop screw.  
 Adjusting stop screw gage, see page M81 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Shrink Fit accessories, see pages L2–L13 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Optional M6-1.0P x 5mm 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 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.








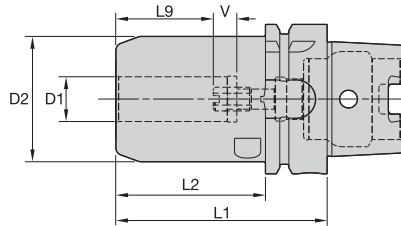
**ERICKSON**

■ HCT HT • Metric

Tooling Systems


order number	catalogue number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	wrench size stop screw	kg
5883440	HSK125AHCTHT20095M	20	65,0	95	66	41	10		5 mm	5 mm	4,77
5883511	HSK125AHCTHT32105M	32	80,0	105	76	51	10		6 mm	6 mm	5,76

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
 Hydraulic chuck technical section, see page M84 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Supplied with stop screw.  
 Actuation wrench must be ordered separately.  
 Reduction sleeves are available and must be ordered separately; see page J2 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 HSK coolant unit and wrench are available and must be ordered separately; see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm (7.90").



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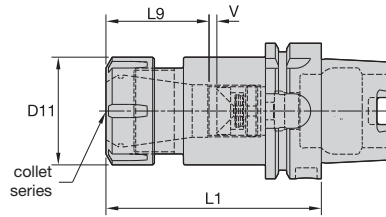
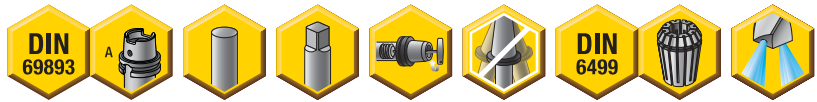
■ HCT HT • Inch

order number	catalogue number	D1	D2	L1	L2	L9	V	actuation wrench	wrench size actuation screw	wrench size stop screw	lbs	
5883512	HSK125AHCTHT125420	1.250	3.150	4.201	3.061	2.008	.394		170.136	6 mm	6 mm	12.87
5883513	HSK125AHCTHT200450	2.000	4.331	4.500	3.360	2.362	.394		170.136	6 mm	6 mm	18.40

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
 Hydraulic chuck technical section, see page M84 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Supplied with stop screw.  
 Actuation wrench must be ordered separately.  
 Reduction sleeves are available and must be ordered separately; see page J2 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 HSK coolant unit and wrench are available and must be ordered separately; see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm (7.90").



Tooling Systems



### ERICKSON™

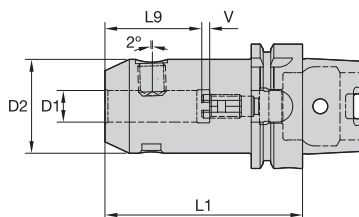
#### ■ ER

order number	catalogue number	collet series	D11	L1	L9	V	kg
5967354	HSK125AER40120M	ER40	63	120	49	17	4,77

#### ■ Spare Parts

catalogue number	locknut	wrench	locknut maximum torque (Nm)	stop screw	wrench size stop screw
HSK125AER40120M	LNSER40M	ER40WM	176	SS112041G	4 mm & 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 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Supplied with locknut and stop screw.  
 Locknut wrench must be ordered separately.  
 ER standard straight-bore collets, see page J54 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 ER tap collets, see pages J58–J59 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 ER TCT tension-only tap collets, see page J60 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 HSK coolant unit and wrench are available and must be ordered separately; see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.



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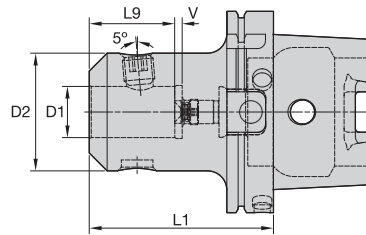
■ WN • Metric



Tooling Systems

order number	catalogue number	D1	D2	L1	L9	V	lock screw	wrench size lock screw	lock screw maximum torque (Nm)	stop screw	wrench size stop screw	kg
5885002	HSK125AWN20120M	20	52	120	45	10	SS03M026	8 mm	95	571.076	6 mm	4,57
5885003	HSK125AWN25130M	25	65	130	50	10	SS03M027	10 mm	135	571.077	6 mm	5,53
5885004	HSK125AWN32130M	32	72	130	55	10	SS03M029	10 mm	160	571.077	6 mm	5,97
5885005	HSK125AWN40140M	40	90	140	65	10	SS03M029	10 mm	160	571.077	6 mm	7,83

NOTE: Do not overtighten lock screw; use torque recommendations above.  
 Supplied with lock screw and stop screw.  
 Lock screw or stop screw wrench not included.  
 HSK coolant unit and wrench are available and must be ordered separately; see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.


**ERICKSON™**

## ■ WN • Inch

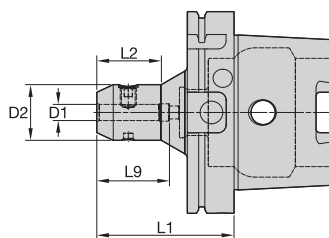
order number	catalogue number	D1		D2	L1	L9	V
		mm	in				
5885007	HSK125AWNA100450	25,4	1.000	51	114	47	10
5885008	HSK125AWNA125450	31,8	1.250	73	114	48	10
5885009	HSK125AWNA200600	50,8	2.000	102	152	75	9
5885010	HSK125AWNA250600	63,5	2.500	127	152	76	10

NOTE: Do not overtighten lock screw; use torque recommendations above.  
 Supplied with lock screw.  
 Lock screw wrench not included.  
 HSK coolant unit and wrench are available and must be ordered separately; see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.

## ■ Spare Parts

catalogue number	lock screw	lock screw maximum torque (ft. lbs.)	stop screw	stop screw cone cap
HSK125AWNA100450	ELS075050	110	SS062041G	SSCC062
HSK125AWNA125450	ELS075069PKG	110	SS062041G	SSCC062
HSK125AWNA200600	ELS075069PKG	110	SS062041G	SSCC062
HSK125AWNA250600	ELS075069PKG	110	SS062041G	SSCC062





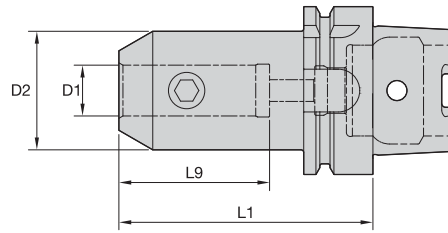
**ERICKSON**

■ EM • Metric

Tooling Systems

order number	catalogue number	D1	D2	L1	L2	L9	lock screw	lock screw maximum torque (Nm)	wrench size lock screw	kg
5964623	HSK125AEM10085M	10	35	85	40	45	SS03M018	25	5 mm	3,67
5964624	HSK125AEM12090M	12	42	90	61	50	SS03M023	35	6 mm	3,84
5964625	HSK125AEM14090M	14	44	90	61	50	SS03M023	35	6 mm	3,89
5964626	HSK125AEM16095M	16	48	95	66	53	SS03M025	50	6 mm	4,06
5964627	HSK125AEM20095M	20	52	95	66	55	SS03M026	95	8 mm	4,17
5964628	HSK125AEM25100M	25	65	100	71	60	SS03M027	135	10 mm	4,78
5964629	HSK125AEM32105M	32	72	105	76	65	SS03M029	160	10 mm	5,15
5964630	HSK125AEM40120M	40	90	120	91	75	SS03M032	160	10 mm	6,88
5964641	HSK125AEM50130M	50	100	130	101	85	SS03M030	250	12 mm	7,92

NOTE: Do not overtighten lock screw; use torque recommendations above.  
Supplied with lock screw.  
Lock screw wrench not included.  
HSK coolant unit and wrench are available and must be ordered separately; see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.



**ERICKSON**

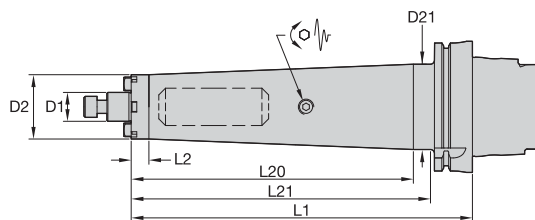
■ EM • Inch

order number	catalogue number	D1	D2	L1	L9	lock screw	lock screw maximum torque (ft. lbs.)	wrench size clamp screw	lbs
5886150	HSK125AEM050350	1/2	1.38	3.50	1.97	ELS044038	20	7/32	8.11
5886191	HSK125AEM062375	5/8	1.63	3.75	2.09	ELS056050PKG	40	1/4	8.45
5886192	HSK125AEM075375	3/4	1.75	3.75	2.22	ELS062050PKG	40	5/16	8.60
5886193	HSK125AEM100425	1	2.00	4.25	2.56	ELS075056	110	3/8	9.28
5886194	HSK125AEM125425	1 1/4	2.50	4.25	2.51	ELS075062PKG	110	3/8	10.41
5886195	HSK125AEM150450	1 1/2	2.75	4.50	2.93	ELS075069PKG	110	3/8	11.17
5886196	HSK125AEM200550	2	3.75	5.50	3.53	ELS100088PKG	150	1/2	17.30



NOTE: Do not overtighten lock screw; use torque recommendations above.  
 Supplied with lock screw.  
 Lock screw wrench not included.  
 HSK coolant unit and wrench are available and must be ordered separately; see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.

Tooling Systems



**ERICKSON**

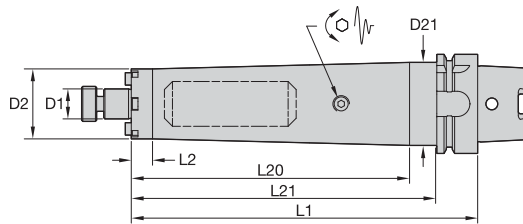
■ TDSMC • Metric

Tooling Systems

order number	catalogue number	D1	D2	D21	L1	L2	L20	L21	lock screw	drive key	wrench size lock screw	kg
5894903	HSK125ATDSMC22300M	22	49	66	300	14	250	271	MS1234	KDK22M	8 mm	8,51
5894904	HSK125ATDSMC27300M	27	61	77	300	14	250	271	KLSS27M	—	10 mm	10,94
5894905	HSK125ATDSMC32300M	32	78	94	300	20	250	271	KLSS32M	KDK32M	14 mm	17,29

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 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Lock screw wrench not included.  
 For HSK coolant unit and wrench, see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.

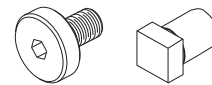




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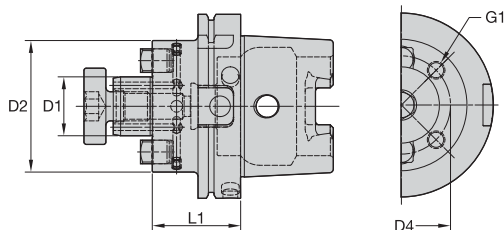
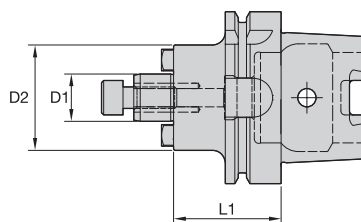
■ TDSMC • Inch

order number	catalogue number	D1	D2	D21	L1	L2	L20	L21	lock screw	drive key	wrench size lock screw	lbs
5894906	HSK125ATDSMC0751050	3/4	1.75	2.31	10.50	.53	8.53	9.36	KLS07	KDK05	1/4	15.33
5894907	HSK125ATDSMC1001250	1	2.75	3.45	12.50	.53	10.53	11.36	KLS10	KDK06	5/16	30.66
5894908	HSK125ATDSMC1251300	1 1/4	2.88	3.60	13.00	.63	11.03	11.86	KLS12	KDK08	5/16	38.64



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 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Lock screw wrench not included.  
 For HSK coolant unit and wrench, see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.





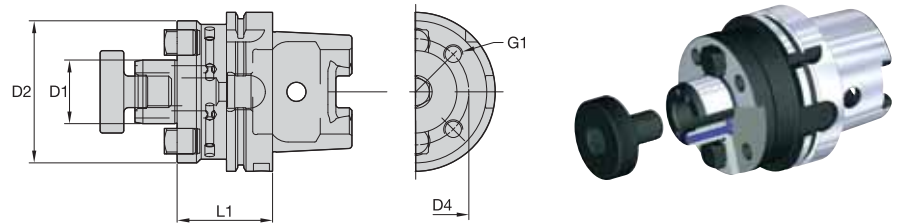
Tooling Systems

**ERICKSON**

■ SMC • Metric

order number	catalogue number	D1	D2	D4	G1	L1	lock screw	lock screw	lock screw	lock screw wrench	drive key	wrench size lock screw	kg
5902743	HSK125ASMC22050M	22	49	—	—	50	—	MS1234	—	—	KDK22M	8 mm	3,62
5968225	HSK125ASMC27055M	27	60	—	—	55	—	—	KLSS27M	—	KDK27M	10 mm	3,96
5968226	HSK125ASMC27100M	27	60	—	—	100	—	—	KLSS27M	—	KDK27M	10 mm	4,90
5902744	HSK125ASMC32070M	32	78	—	—	70	—	—	KLSS32M	—	KDK32M	14 mm	5,00
5902745	HSK125ASMC32100M	32	78	—	—	100	—	—	KLSS32M	—	KDK32M	14 mm	6,09
5968227	HSK125ASMC40060M	40	89	67	M12 X 1.75	60	—	—	KLSS40M	—	KDK40M	17 mm	5,13
5968228	HSK125ASMC40100M	40	89	67	M12 X 1.75	100	—	—	KLSS40M	—	KDK40M	17 mm	7,04
5968229	HSK125ASMC50070M	50	98	—	—	70	KLS50M	—	—	SMW50M	KDK50M	—	6,24

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 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 Lock screw wrench not included.  
 For HSK coolant unit and wrench, see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.



## ERICKSON

■ SMC • Inch

order number	catalogue number	D1	D2	D4	G1	L1	lock screw	drive key	wrench size lock screw	lbs
5902746	HSK125ASMC075225	3/4	1.75	—	—	2.25	KLS07	KDK05	1/4	8.01
5902747	HSK125ASMC100225	1	2.75	—	—	2.25	KLS10	KDK06	5/16	9.23
5902748	HSK125ASMC100400	1	2.75	—	—	4.00	KLS10	KDK06	5/16	12.06
5902749	HSK125ASMC125400	1 1/4	2.88	—	—	4.00	KLS12	KDK08	5/16	12.74
5902750	HSK125ASMC150225	1 1/2	3.81	—	—	2.25	KLS15	KDK10	3/8	11.51
5902751	HSK125ASMC150400	1 1/2	3.81	—	—	4.00	KLS15	KDK10	3/8	17.04
5902752	HSK125ASMC200300	2	4.88	4.00	5/8-11	3.00	KLS20	KDK12	9/16	17.19
5902753	HSK125ASMC200400	2	4.88	4.00	5/8-11	4.00	KLS20	KDK12	9/16	21.54
5902754	HSK125ASMC250350	2 1/2	4.88	4.00	5/8-11	3.50	—	KDK16	9/16	21.78

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 of the Kennametal Innovations Master Catalogue Tooling Systems A-12-02809.

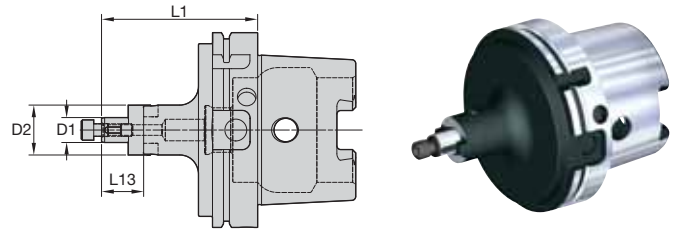
Lock screw wrench not included.

For HSK coolant unit and wrench, see page L44 of the Kennametal Innovations Master Catalogue Tooling Systems A-12-02809.

Order number 5902754 (HSK125ASMC250350) supplied with four locking bolts.

Order number 1020580 (KLS25) lock screw is available and must be ordered separately.





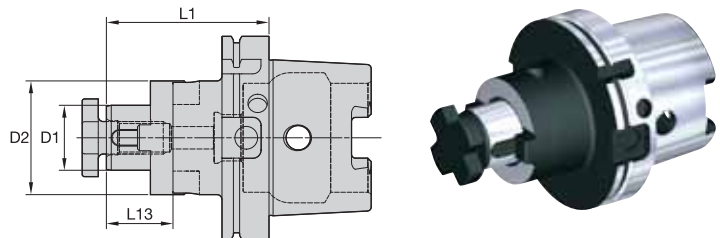
**ERICKSON**

■ CS • Metric

Tooling Systems

order number	catalogue number	D1	D2	L1	L13	lock screw	wrench size lock screw	combi driver ring	combi drive key	kg
5964528	HSK125ACS16083M	16	32	83	27	MS1294	6 mm	CDR16M	CDK16M	4,23
5964529	HSK125ACS22081M	22	40	81	31	MS1234	8 mm	CDR22M	CDK22M	4,41

NOTE: Do not overtighten lock screw.  
Supplied with lock screw and drive keys.  
Lock screw wrench not included.  
For HSK coolant unit and wrench, see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.

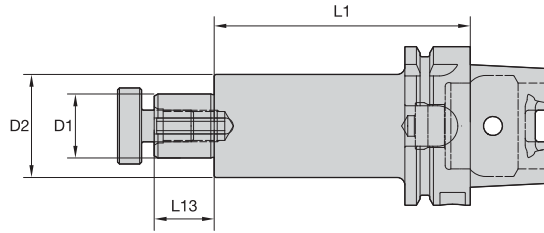


**ERICKSON**

■ CS • Cap Screw Design • HSK Form A

order number	catalogue number	D1	D2	L1	L13	lock screw	locknut wrench	combi driver ring	combi drive key	kg
5964530	HSK125ACS27079M	27	48	79	33	KLS27M	SMW27M	CDR27M	CDK27M	4,05
5964621	HSK125ACS40073M	40	70	73	41	KLS40M	SMW40M	CDR40M	CDK40M	4,91

NOTE: Do not overtighten lock screw.  
Supplied with lock screw and drive keys.  
Lock screw wrench not included.  
For HSK coolant unit and wrench, see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.



**ERICKSON**

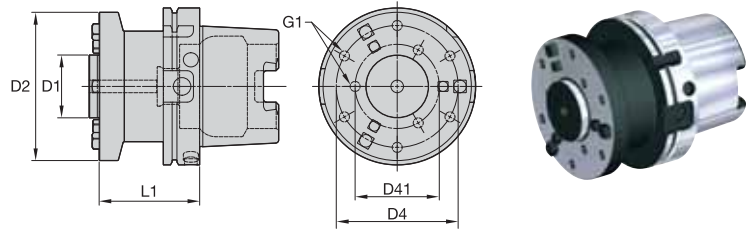
■ SA • Inch

order number	catalogue number	D1	D2	L1	L13	lock screw	wrench size lock screw	lbs
5884633	HSK125ASA100400	1	1.61	4.00	.94	KLS10	5/16	9.23
5884634	HSK125ASA125600	1 1/4	1.86	6.00	1.09	KLS12	5/16	11.30
5884635	HSK125ASA150600	1 1/2	2.11	6.00	1.70	KLS15	3/8	13.01



NOTE: Do not overtighten lock screw.  
Supplied with lock screw and drive keys.  
Lock screw wrench not included.  
For HSK coolant unit and wrench, see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.

Tooling Systems



**ERICKSON**

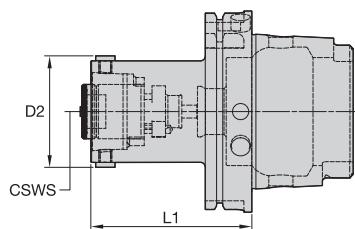
■ AF



Tooling Systems

order number	catalogue number	D1	D2	D4	D41	G1	L1	drive key	drive key	kg
5561880	HSK125AFM63	50	118	67	97	M8 X 1.25	80	KDK16M	KDK22M	6,47

NOTE: For HSK coolant unit and wrench, see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.

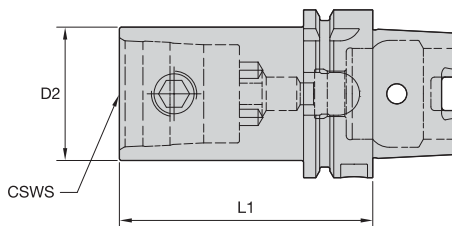


**ERICKSON**


■ HSK • HSK Form A

order number	catalogue number	CSWS system size	D2	L1	kg
5968156	HSK125AHSK63100M	HSK63	63	100	4,42

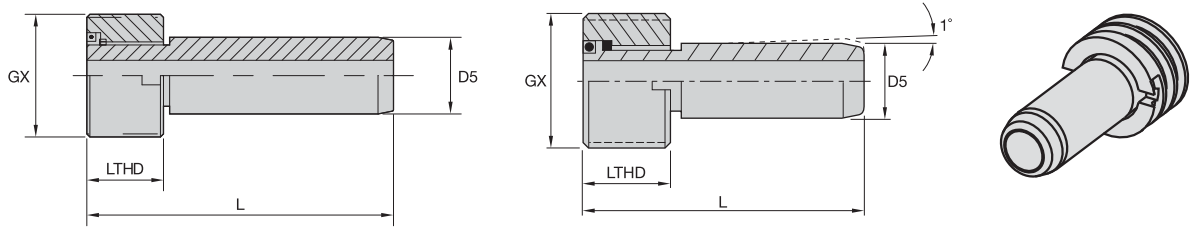
NOTE: Do not overtorque actuation screw; use torque recommendations above.  
 Supplied with KM actuation mechanism.  
 HSK coolant unit and wrench are available and must be ordered separately;  
 see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.



■ HSK Form A • KM

order number	catalogue number	CSWS system size	D2	L1	 spare parts package	recommended torque (Nm)	kg
5969111	HSK125AKM63120M	KM63	63	120	KM63PKG3S	47-54	5,11
5969112	HSK125AKM80130M	KM80	80	130	KM80PKG3S	—	6,62

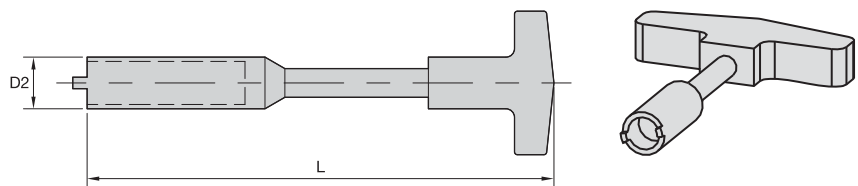
NOTE: Do not overtorque actuation screw; use torque recommendations above.  
 Supplied with actuation mechanism and sealing ring.  
 HSK coolant unit and wrench are available and must be ordered separately;  
 see page L44 of the Kennametal Innovations Master catalogue Tooling Systems A-12-02809.  
 With HSK adaptors to DIN 69893-1 Form A or Form C, coolant pipe must be removed.



### ■ HSK Coolant Supply Unit

order number	catalogue number	system size	D5		L		LTHD		GX	recommended torque (Nm)	recommended torque (ft. lbs.)
			mm	in	mm	in	mm	in			
1132083	193.158	40A & 40E	8,0	.3	29,5	1.2	7,5	.30	M12 X 1	10	7
1132144	193.159	50A & 50E & 63F	10,0	.4	32,7	1.3	9,5	.37	M16 X 1	15	11
1132145	193.160	63A & 63T & 80F	12,0	.5	36,2	1.4	11,5	.45	M18 X 1	20	14
1132146	193.161	80A	14,0	.6	40,2	1.6	13,5	.53	M20 X 1.5	25	18
1132147	193.162	100A	16,0	.6	44,2	1.7	15,5	.61	M24 X 1.5	30	22
5983451	CAHSK125	125A	18,0	.7	48,0	1.9	17,5	.69	M30 X 1.5	30	22

Tooling Systems



### ■ HSK Wrench

order number	catalogue number	CSWS	D2		L		recommended torque (Nm)	recommended torque (ft. lbs.)
			mm	in	mm	in		
1176487	170.195	40A & 40E	13,0	.51	120	4.72	10	7
1132992	170.196	50A & 50E & 63F	14,5	.57	114	4.49	15	11
1134161	170.197	63A & 63T & 80F	16,5	.65	122	4.80	20	14
1127524	170.198	80A	19,0	.75	130	5.12	25	18
1132993	170.199	100A	22,0	.87	141	5.55	30	22
5983452	CAHSK125WR	HSK125A	24,5	.96	178	7.01	30	22





# HydroForce™ HT Hydraulic Chuck High Torque

## Primary Application

- First choice solution for rotating applications.
- HydroForce HT gives you an unparalleled combination of accuracy and clamping force.
- HydroForce HT requires only two clamping sizes for all of your tooling applications.

## Features, Functions, and Benefits

### Compact and Stable Design

- Shorter projection length and thicker front wall cross section result in higher rigidity. This allows higher cutting parameters and better surface quality.

### Advanced Hydraulic Clamping

- Three times better clamping force than regular hydraulic chucks, runout of 3 microns at 2.5 times diameter overhang vibration dampening. This results in up to 50% longer tool life and improved workpiece surface quality.

### Balance Quality at G2.5 at 25.000 RPM

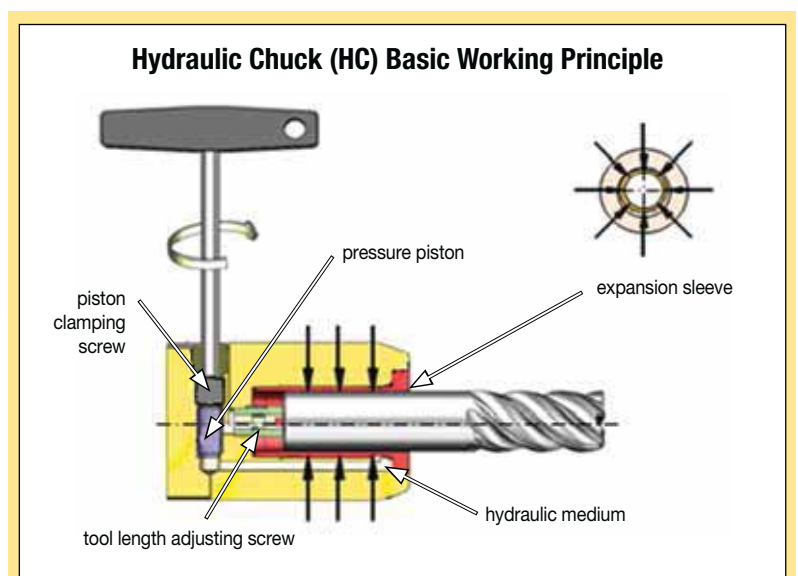
- Lower vibration, particularly at high speeds. This results in higher productivity.

### Easy Side Access for Clamping/Unclamping

- Mechanical stop for clamping and 10mm (3/8") length adjustment. This results in reliable, consistent clamping and no over torque. No torque wrench required.

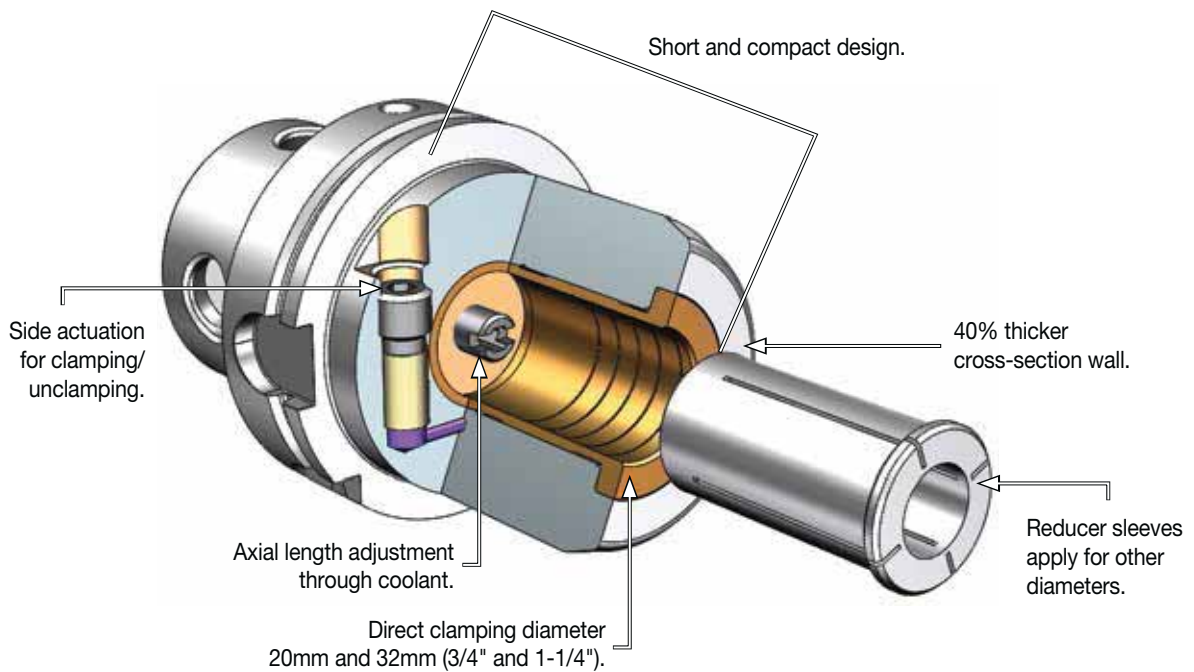
### Focused and Flexible Product Offering

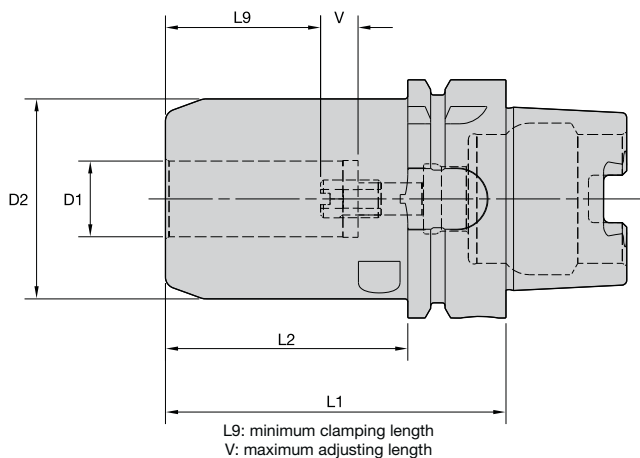
- Allows direct clamping for 20mm and 32mm (3/4" and 1-1/4"). Reducer sleeves available for all combinations metric/inch, which results in reduced toolholder inventory, maximum flexibility, and minimum cost.





### HydroForce™ Advanced Features





Tooling Systems

**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	h6 0,000/-0,013

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

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

**ERICKSON™**

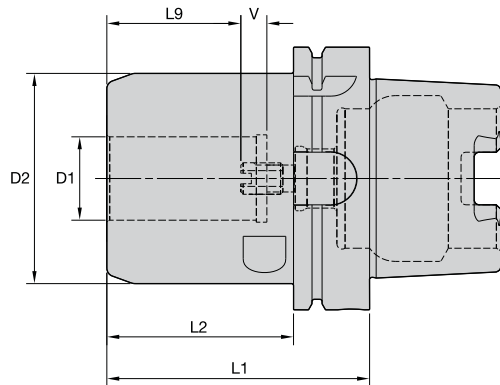
■ HCTHT • Metric • HSK Form A

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520975	HSK63AHCTHT20090M	20	52,5	90	64	41	10	5 mm	5 mm	1,54

■ HCTHT • Inch • HSK Form A

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5520958	HSK63AHCTHT075350	.750	2.067	3.500	2.478	1.614	.394	5 mm	5 mm	3.39

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Wrenches must be ordered separately.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
HSK coolant unit and wrench are available and must be ordered separately; see page L44 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.



**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	h6 0,000/-0,013

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

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

## ERICKSON™

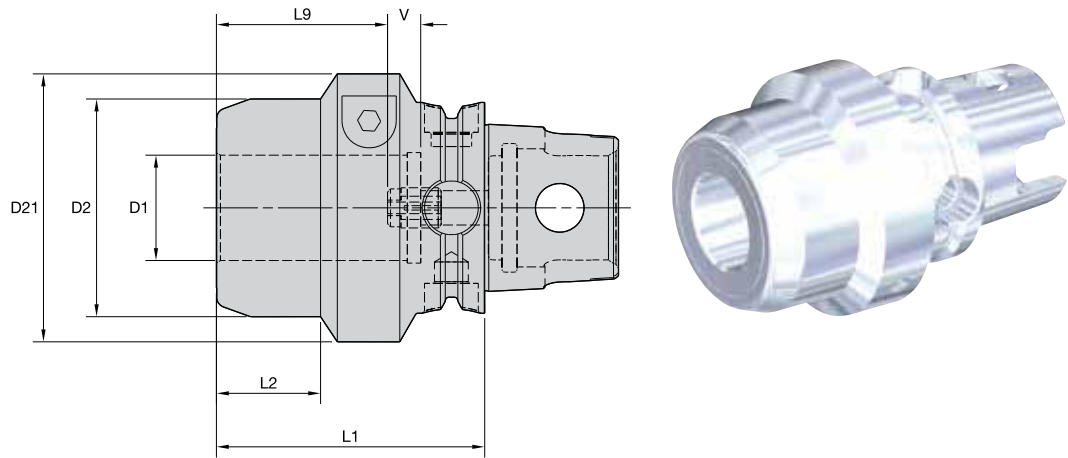
### ■ HCTHT • Metric • HSK Form A

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520976	HSK100AHCTHT20090M	20	65,0	90	61	41	10	5 mm	5 mm	3,38
5520977	HSK100AHCTHT32100M	32	80,0	100	71	51	10	6 mm	6 mm	4,29

### ■ HCTHT • Inch • HSK Form A

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5520959	HSK100AHCTHT125400	1.250	3.150	4.000	2.860	2.008	.394	6 mm	6 mm	9.61

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
 Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
 Supplied with stop screw.  
 Actuation wrench must be ordered separately.  
 Reduction sleeves are available and must be ordered separately; see page E18.  
 HSK coolant unit and wrench are available and must be ordered separately;  
 see page L44 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
 For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm.



Tooling Systems

**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	h6 0,000/-0,013

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

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



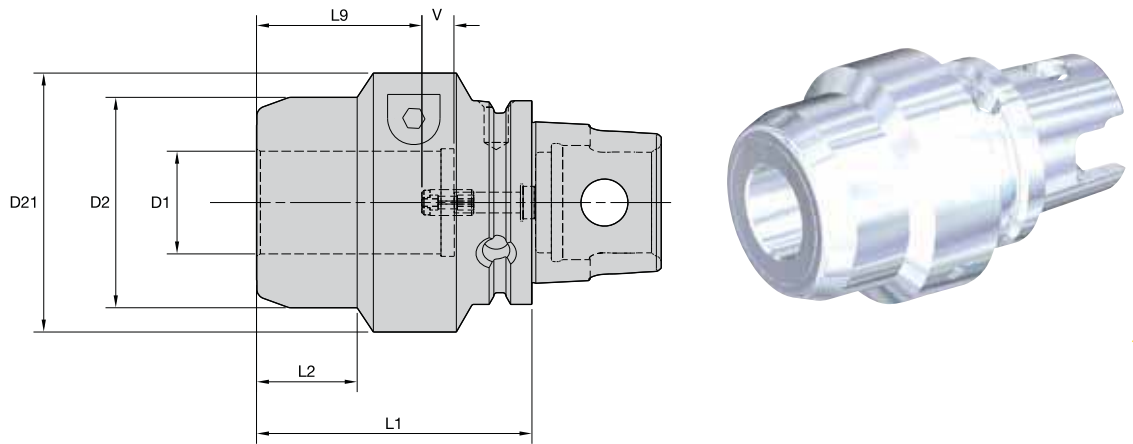
■ HCTHT • Metric • KM63TS

order number	catalogue number	D1	D2	D21	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520979	KM63TSHCTHT32080M	32	65,0	80	80	31	51	10	6 mm	6 mm	2,00

■ HCTHT • Inch • KM63TS

order number	catalogue number	D1	D2	D21	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521070	KM63TSHCTHT125315	1.250	2.559	3.150	3.150	1.220	2.008	.394	6 mm	6 mm	4.42

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
 Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
 Supplied with stop screw.  
 Actuation wrench must be ordered separately.  
 Reduction sleeves are available and must be ordered separately; see page E18.  
 For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm.



Tooling Systems

**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	h6 0,000/-0,013

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

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



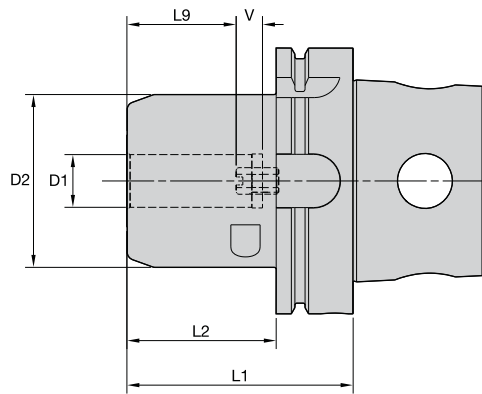
■ HCTHT • Metric • KM63XMZ

order number	catalogue number	D1	D2	D21	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520978	KM63XMZHCTHT32085M	32	65,0	80	85	31	51	10	6 mm	4 mm	2,27

■ HCTHT • Inch • KM63XMZ

order number	catalogue number	D1	D2	D21	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521079	KM63XMZHCTHT125315	1.250	2.559	3.150	3.150	1.260	2.008	.394	6 mm	4 mm	4.59

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm.



L9: minimum clamping length  
V: maximum adjusting length



Tooling Systems

**Cutting Tool Shank Requirements**

**metric (ISO standard)**

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

**Cutting Tool Shank Requirements**

**inch (industry standard)**

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



■ HCTHT • Metric • KM4X

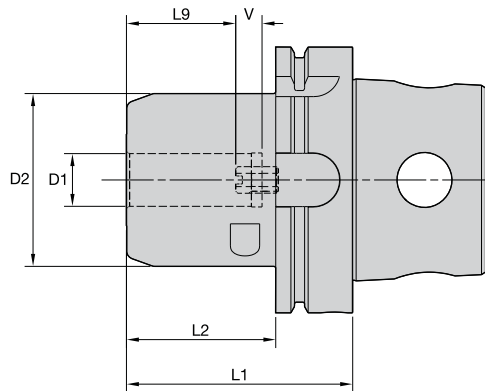
order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520990	KM4X63HCTHT20090M	20	52,5	90	64	41	10	5 mm	5 mm	1,63

■ HCTHT • Inch • KM4X

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521071	KM4X63HCTHT075350	.750	2.067	3.500	2.478	1.614	.394	5 mm	5 mm	3.57

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
KM4X63 coolant unit and wrench are available and must be ordered separately; order numbers 5572428 and 1134161.





Tooling Systems

**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	h6	0,000/-0,013

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

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



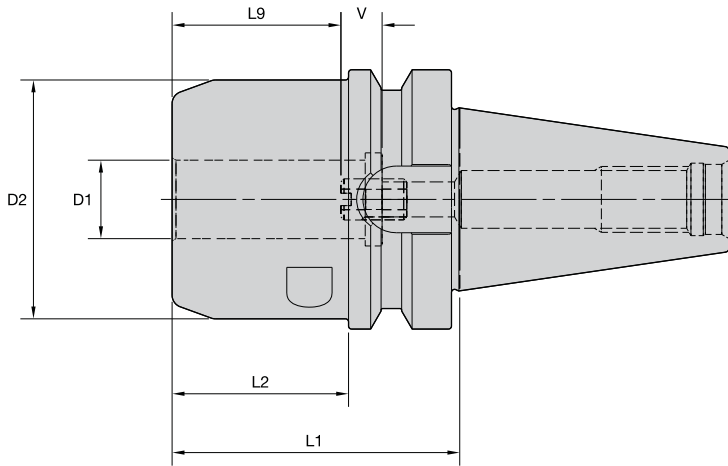
■ HCTHT • Metric • KM4X

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520991	KM4X100HCTHT20085M	20	65,0	85	56	41	10	5 mm	5 mm	3,53
5520992	KM4X100HCTHT32095M	32	80,0	95	66	51	10	6 mm	6 mm	4,37

■ HCTHT • Inch • KM4X

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521072	KM4X100HCTHT125375	1.250	3.150	3.750	2.630	2.008	.394	6 mm	6 mm	9.66

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
KM4X100 coolant unit and wrench are available and must be ordered separately; order numbers 5572427 and 1132993.



L9: minimum clamping length  
V: maximum adjusting length



Tooling Systems

**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	h6 0,000/-0,013

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

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

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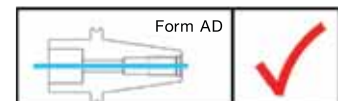
■ HCTHT • Metric • BT40

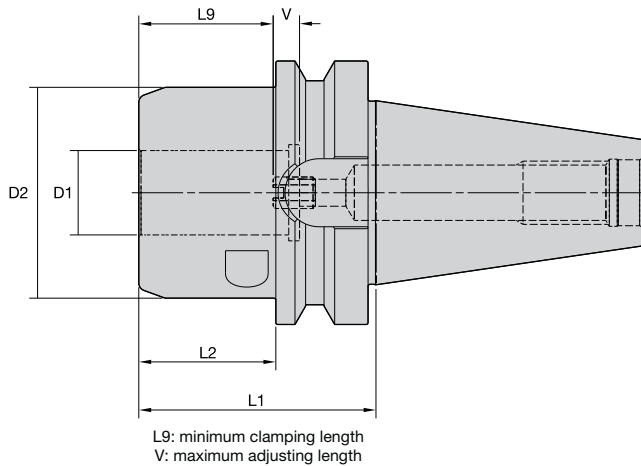
order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520971	BT40HCTHT20070M	20	58	70	43	41	10	5 mm	5 mm	1,67

■ HCTHT • Inch • BT40

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521073	BT40HCTHT075275	3/4	2.283	2.750	1.687	1.614	.394	5 mm	5 mm	3.70

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
For retention knobs, see pages L45–L50 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.





Tooling Systems

**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	h6 0,000/-0,013

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

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

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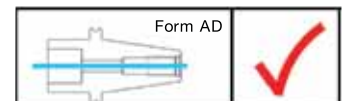
■ HCTHT • Metric • BT50

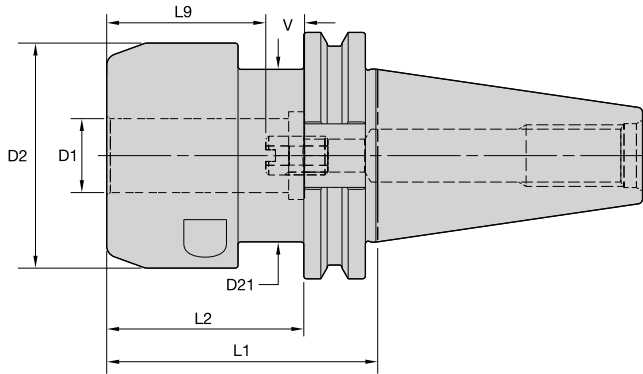
order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520972	BT50HCTHT32090M	32	80	90	52	51	10	6 mm	6 mm	5,09

■ HCTHT • Inch • BT50

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521074	BT50HCTHT125350	1 1/4	3.150	3.500	2.004	2.008	.394	6 mm	6 mm	11.14

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
For retention knobs, see pages L45–L50 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
For D1 of 32mm (1,25"), please use 6mm Allen wrench with minimum length of 180mm.





L9: minimum clamping length  
V: maximum adjusting length



Cutting Tool Shank Requirements  
inch (industry standard)

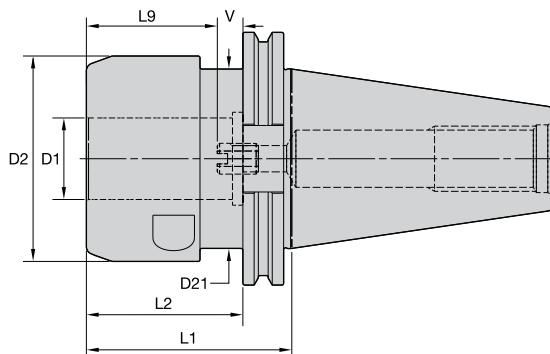
cutting tool shank diameters	tolerance
1/4, 5/16 & 3/8	.0000/-0.0004
7/16, 1/2, 9/16, 5/8, & 11/16	.0000/-0.0004
3/4, 7/8, 1, & 1-1/4	.0000/-0.0005

Tooling Systems

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■ HCTHT • Inch • CV40

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521075	CV40HCTHT075275	3/4	2.283	2.750	2.000	1.614	.394	5 mm	5 mm	3.41



L9: minimum clamping length  
V: maximum adjusting length

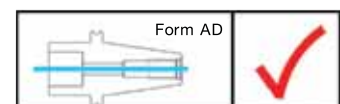


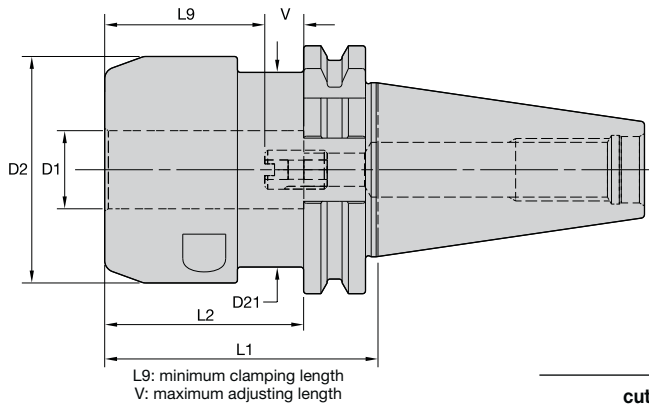
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■ HCTHT • Inch • CV50

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521076	CV50HCTHT125315	1 1/4	3.150	3.150	2.400	2.008	.394	6 mm	6 mm	9.48

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
For retention knobs, see pages L45–L50 Kennametal Innovations Master Catalogue Tooling Systems 2013.  
For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm.





**Cutting Tool Shank Requirements**

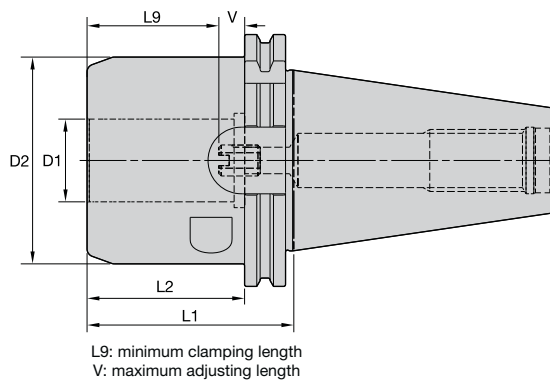
metric (ISO standard)

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

**ERICKSON™**

■ HCTHT • Metric • DV40

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520973	DV40HCTHT20070M	20	58	70	51	41	10	5 mm	5 mm	1,58

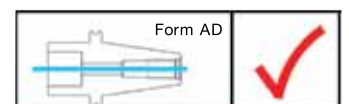


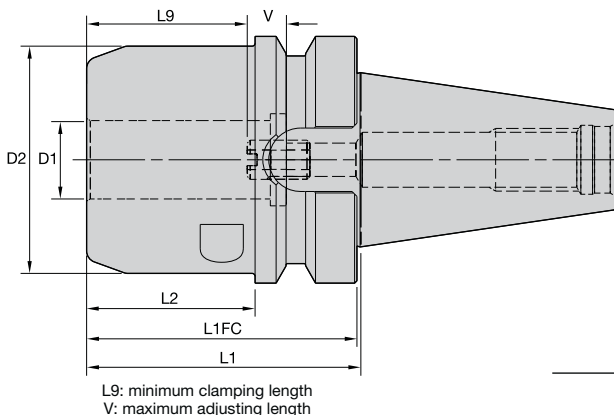
**ERICKSON™**

■ HCTHT • Metric • DV50

order number	catalogue number	D1	D2	L1	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520974	DV50HCTHT32080M	32	80	80	61	51	10	6 mm	6 mm	4,45

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
For retention knobs, see pages L45–L50 Kennametal Innovations Master Catalogue Tooling Systems 2013.  
For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm.





**Cutting Tool Shank Requirements**  
metric (ISO standard)

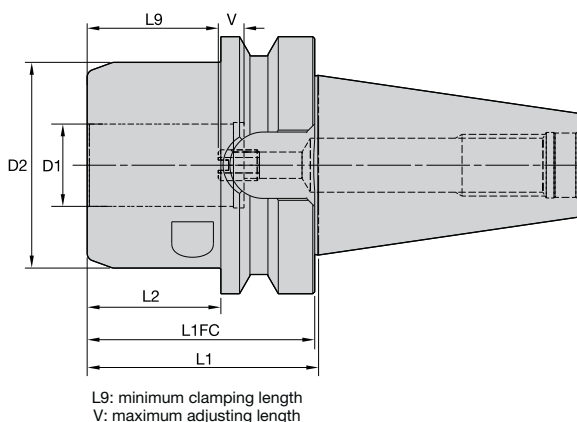
cutting tool shank diameter	tolerance	
6	h6	0,000/-0,008
8 & 10	h6	0,000/-0,009
12, 14, 16, & 18	h6	0,000/-0,011
20	h6	0,000/-0,013

Tooling Systems

**ERICKSON™**

■ HCTHT • Metric • BTKV40

order number	catalogue number	D1	D2	L1	L1FC	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520993	BTKV40HCTHT20070M	20	58	70	69	43	41	10	5 mm	5 mm	1,62

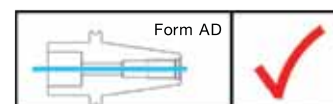


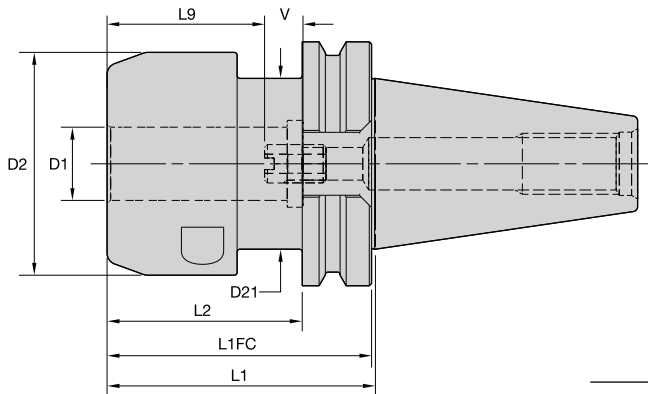
**ERICKSON™**

■ HCTHT • Metric • BTKV50

order number	catalogue number	D1	D2	L1	L1FC	L2	L9	V	wrench size actuation screw	wrench size stop screw	kg
5520994	BTKV50HCTHT32090M	32	80	90	89	52	51	10	6 mm	6 mm	5,13

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
Supplied with stop screw.  
Actuation wrench must be ordered separately.  
Reduction sleeves are available and must be ordered separately; see page E18.  
For retention knobs, see page L45–L50 Kennametal Innovations Master Catalogue Tooling Systems 2013.  
For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm.





L9: minimum clamping length  
 V: maximum adjusting length



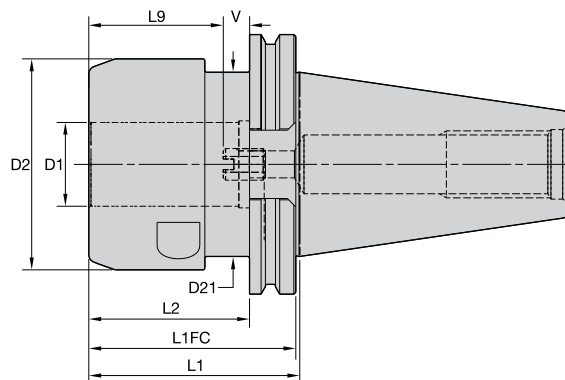
**Cutting Tool Shank Requirements**  
 inch (industry standard)

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

**ERICKSON™**

■ HCTHT • Inch • CVKV40

order number	catalogue number	D1	D2	D21	L1	L1FC	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521077	CVKV40HCTHT075275	.750	2.283	1.750	2.750	2.711	2.000	1.614	.394	5 mm	5 mm	3.43



L9: minimum clamping length  
 V: maximum adjusting length

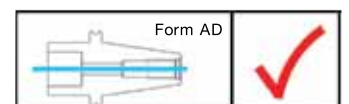


**ERICKSON™**

■ HCTHT • Inch • CVKV50

order number	catalogue number	D1	D2	D21	L1	L1FC	L2	L9	V	wrench size actuation screw	wrench size stop screw	lbs
5521078	CVKV50HCTHT125315	1.250	3.150	2.750	3.150	3.091	2.400	2.008	.394	6 mm	6 mm	9.52

NOTE: Do not overtorque actuation screw. Tighten by hand until stop is felt.  
 Hydraulic chuck technical section, see pages M84–M87 of the Kennametal Innovations Master Catalogue Tooling Systems 2013.  
 Supplied with stop screw.  
 Actuation wrench must be ordered separately.  
 Reduction sleeves are available and must be ordered separately; see page E18.  
 For retention knobs, see page L45–L50 Kennametal Innovations Master Catalogue Tooling Systems 2013.  
 For diameter D1 32mm (1-1/4"), use an L-shape Allen wrench with side length of approximately 200mm.



# ERICKSON™ HC Hydraulic Chuck Sleeves

## Primary Application

ERICKSON Hydraulic Reduction Sleeves are specially designed for high-precision clamping of straight cylindrical cutting tool shanks. The self-sealing design enables efficient use of through-coolant cutting tools when the cutting tool shank completely engages the full gripping length of the sleeve.

## Features and Benefits

- One-piece design with slot configuration to seal coolant.
- Cutting tool must be cylindrical and have a through hole when using coolant.
- Capable of up to 100 bar (1,500 psi) coolant pressure.
- Cutting tool shank requirement tolerance is h6 and Ra  $\geq 0,3 \mu\text{m}$  (12  $\mu\text{in}$ ) surface finish.
- Maximum collapse is h6.





## How Do Catalogue Numbers Work?

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



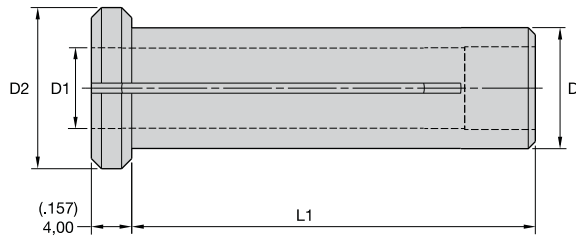
**ERICKSON**

<b>20</b>	<b>M</b>	<b>HC</b>	<b>160</b>	<b>M</b>
System Size	System Value	Sleeve Style	Sleeve Bore Size	Identification Value
<p>12 = 12mm                  20 = 20mm                  32 = 32mm                  50 = 1/2"                  75 = 3/4"                  12 = 1-1/4"</p>	<p><b>M</b> = Previous two numbers built in metric values</p>	<p><b>HC</b> = Hydraulic Chuck</p>	<p><b>metric (xx.x)</b>                  010 = 1mm                  010 = 16mm                  010 = 25mm  <b>inch (x.xxx)</b>                  0125 = 1/8"                  0500 = 1/2"                  1000 = 1"</p>	<p><b>M</b> = Sleeve bore size built to metric values</p> <p><b>(blank)</b> = Sleeve bore size built to inch values</p>

Tooling Systems



- One-piece design with slot configuration to seal coolant.
- Cutting tool must be cylindrical and have a through hole when using coolant.
- Sleeve must be inserted completely into the hydraulic chuck until shoulder mates against the hydraulic chuck front face.
- Cutting tools must be in full contact with the sleeve bore length (L1).



Tooling Systems

**ERICKSON**

■ Metric with Metric Bores

D1	20HC D = 20mm D2 = 25mm L1 = 50mm	32HC D = 32mm D2 = 36mm L1 = 60mm
3,0	20MHC030M	—
4,0	20MHC040M	—
5,0	20MHC050M	—
6,0	20MHC060M	32MHC060M
7,0	20MHC070M	32MHC070M
8,0	20MHC080M	32MHC080M
9,0	20MHC090M	32MHC090M
10,0	20MHC100M	32MHC100M
11,0	20MHC110M	32MHC110M
12,0	20MHC120M	32MHC120M
13,0	20MHC130M	32MHC130M
14,0	20MHC140M	32MHC140M
15,0	20MHC150M	32MHC150M
16,0	20MHC160M	32MHC160M
17,0	—	32MHC170M
18,0	—	32MHC180M
19,0	—	32MHC190M
20,0	—	32MHC200M
22,0	—	32MHC220M
25,0	—	32MHC250M

(continued)

(HC Hydraulic Chuck Sleeves — continued)

■ **Metric with Inch Bores**

D1	20HC D = 20mm D2 = 25mm L1 = 50mm	32HC D = 32mm D2 = 36mm L1 = 60mm
3/16	20HCM0188	—
1/4	20HCM0250	—
5/16	20HCM0312	—
3/8	20HCM0375	—
7/16	20HCM0438	—
1/2	20HCM0500	32HCM0500
9/16	20HCM0562	32HCM0562
5/8	20HCM0625	32HCM0625
11/16	—	32HCM0688
3/4	—	32HCM0750
7/8	—	32HCM0875
1	—	32HCM1000

■ **Inch with Metric Bores**

D1	75HC D = .750 D2 = .984 L1 = 1.969	12HC D = 1.250 D2 = 1.417 L1 = 2.362
3,0	75HC030M	—
4,0	75HC040M	—
5,0	75HC050M	—
6,0	75HC060M	—
8,0	75HC080M	—
10,0	75HC100M	—
12,0	75HC120M	—
14,0	75HC140M	—
16,0	75HC160M	—
18,0	—	12HC180M
20,0	—	12HC200M
25,0	—	12HC250M

■ **Inch with Inch Bores**

D1	75HC D = .750 D2 = .945 L1 = 1.969	12HC D = 1.250 D2 = 1.417 L1 = 2.362
1/8	75HC0125	—
3/16	75HC0188	—
1/4	75HC0250	—
5/16	75HC0312	—
3/8	75HC0375	—
7/16	75HC0438	—
1/2	75HC0500	12HC0500
9/16	75HC0562	12HC0562
5/8	75HC0625	12HC0625
11/16	—	12HC0688
3/4	—	12HC0750
13/16	—	12HC0812
7/8	—	12HC0875
1	—	12HC1000

NOTE: Inserting the cutting tool less than the full gripping length (L1) of the sleeve can permanently damage the sleeve and hydraulic chuck.  
Full length of the gripping bore needs to be maintained to achieve maximum accuracy, safety, and coolant sealing feature.



### HydroForce HT Torque Comparison



Torque Capacity of Toolholders, Nm

bore diameter (mm)	shank diameter (mm)	adaptor type				
		regular hydraulic chuck	Shrink Fit holder* GP	Shrink Fit holder* HT	HydroForce hydraulic chuck	milling chuck (bearing type)
20	20	220	410-1050	650-1290	<b>800</b>	1120
32	32	700	1030-2080	1340-2380	<b>2000</b>	2350
32 with sleeve	20	440	-	-	<b>1500</b>	1460

\*Torque is highly influenced by shank diameter of cutting tool and bore size.  
All above torque values are for solid carbide shanks in dry condition at minimum clamping length.

## How Do Catalogue Numbers Work?

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



KM4X100HCTHT32095M

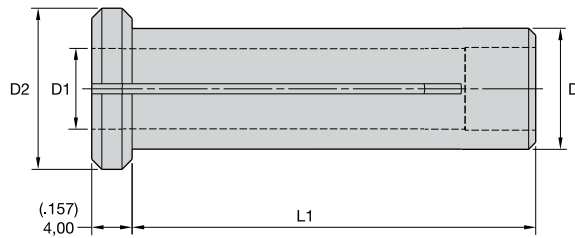
<b>KM4X</b>	<b>100</b>	<b>HCTHT</b>	<b>32</b>	<b>095</b>	<b>M</b>
Shank Style	System Size	Toolholder Style (Hydraulic Chuck Trend Line High Torque)	Toolholder Size (Bore Size)	Tool Length	Metric
		<p><b>HC</b> = Hydraulic Chuck standard line</p> <p><b>HCB</b> = Hydraulic Chuck basic line</p> <p><b>HCSLT</b> = Hydraulic Chuck – Slim Line – Trend</p> <p><b>HCT</b> = Hydraulic Chuck – Trend Line</p>			

Tooling Systems



### Reducer Sleeve Product Portfolio

Reducer Sleeves		
d	D (metric)	D (inch)
12mm	3-10	-
20mm	3-16	3/16-5/8"
25mm	3-20	-
32mm	6-25	1/2-1"
1/2"	3-10	1/8-3/8"
3/4"	3-16	1/8-5/8"
1-1/4"	6-25	1/2-1"



Reduction sleeves available in metric and inch bores.

### Applying the Product

High Torque Hydraulic chuck is a new solution developed by Kennametal to address holding in all types of applications in all types of material.

These chucks have great gripping torque comparable to Shrinkers and Power grip chucks.

They can be used to hold shank diameters having h4 (3–4mm), h5 (5mm), h6 (>6mm) tolerance in rough milling, tapping, drilling, and reaming applications recommended to hold solid carbide shanks.

Parameters as recommended in solid carbide end milling catalogues can be used.

NOTE: Check if spindle connections can support the bending loads.

### One Powerful Chuck — Best Suited for All Operations.

3D Profiling	Coolant — Through Coolant 100 bar (1500 psi) Maximum	Drilling into Solid	Drilling — Through Coolant
Plunge Milling	Ramping: Blank	Reaming: Through Hole	Shank — Cylindrical Plain
Side/Shoulder Milling: Square End with AE/AP Dimensions	Slotting: Square End	Tapping: Through Hole	

- Cutting tool must be cylindrical and have a through hole when using coolant.
- Sleeve must be inserted completely into the hydraulic chuck until shoulder mates against the hydraulic chuck front face.

### Benchmark Toolholders

technical data/characteristics	toolholders				
	HydroForce high torque	Shrink Fit	milling chuck	ER collet chuck	Weldon® adaptor
torque transmission	★★★★★	★★★★	★★★★★	★★	★★★★★
radial runout (T.I.R.) <sup>1</sup>	★★★★★	★★★★★	★★★★	★★★	★
radial rigidity <sup>2</sup>	★★★	★★★★★	★★★	★★★	★★★
tool length adjustment	★★★★★	★★★★	★	★★★★	★★
tool shank tolerance requirement	★★★	★★	★★★	★★★★★	★★★
through coolant	★★★★★	★★★★★	★★★	★★★	★★
minimum quantity lubrication (MQL)	★★★★★	★★★★★	★	★	★
dampening capability	★★★★★	★	★★★	★★★	★★★
shank diameter range <sup>3</sup>	★★★★★	★	★★★★★	★★★★★	★
cost of toolholder	★★	★★★	★	★★★★	★★★★★
low requirement of external devices <sup>4</sup>	★★★★★	★	★★★★	★★★★	★★★★★
ease of handling	★★★★★	★★★	★★	★★★★	★★★★
dust resistance	★★★★★	★★★★★	★★★	★★★	★★★★
high-speed capability	★★★★★	★★★★★	★★★	★★★	★
balancing accuracy	★★★★★	★★★★★	★★★	★★★	★

<sup>1</sup> Radial runout may affect tool life.

<sup>2</sup> Radial rigidity for Weldon holder is low at a direction perpendicular to the screw.

<sup>3</sup> Accepts different shank diameters through the use of reduction sleeves or due to collapse range.

<sup>4</sup> Collet chucks and milling chucks may require the use of a torque or special wrench; Shrink Fit adaptor requires a shrinking unit.

Tooling Systems



\$25,000 estimated savings per year	2.3x longer tool life	Exceptional surface quality
<b>Field Test 1</b>	<b>Field Test 2</b>	<b>Field Test 3</b>
<b>S650 Cylinder Head</b>	<b>Mill Mounting &amp; Pump Flange</b>	<b>Straightness Test with INCONEL® 718</b>
<p><b>CHALLENGE</b></p> <ul style="list-style-type: none"> <li>• Operation — End milling inside of rocker valley</li> <li>• Material — Varifer cast iron</li> <li>• Coolant type — External emulsion</li> </ul>	<p><b>CHALLENGE</b></p> <ul style="list-style-type: none"> <li>• Operation — Side/face milling and slotting</li> <li>• Material — 80-55-06 (grey cast iron)</li> <li>• Coolant type — External emulsion</li> </ul>	<p><b>CHALLENGE</b></p> <ul style="list-style-type: none"> <li>• Operation — Slotting</li> <li>• Material — INCONEL 718</li> <li>• Coolant type — External emulsion</li> </ul>
<p><b>SOLUTION</b></p> <ul style="list-style-type: none"> <li>• Adaptor — CV50BHCHTHT32080M; used 1" reduction sleeve</li> <li>• Base line — CV50BHPMC100650</li> <li>• End mill — HPHV1000S4400R030 KCPM15™</li> </ul>	<p><b>SOLUTION</b></p> <ul style="list-style-type: none"> <li>• Adaptor — CV50BHCHTHT32080M; used 3/4" reduction sleeve</li> <li>• Base line — CV50EM075575</li> <li>• End mill — UCDE750K5ARB KCPM15</li> </ul>	<p><b>SOLUTION</b></p> <ul style="list-style-type: none"> <li>• Adaptor — DV40BHCHTHT20090M; direct clamp</li> <li>• Base line — D = 20mm, GPL = 82mm</li> </ul>
<p><b>CUTTING DATA</b></p> <ul style="list-style-type: none"> <li>• vc — 116 m/min (380 SFM)</li> <li>• fz — 0,114 mm/U (.0045 IPT)</li> <li>• Ap — 5,08mm (.2")</li> <li>• Ae — 2,54mm (.1")</li> <li>• Spindle speed — 1451 rev/min</li> </ul>	<p><b>CUTTING DATA</b></p> <ul style="list-style-type: none"> <li>• vc — 105,1 m/min (344 SFM)</li> <li>• F — 0,116 mm/U (.0046 IPT)</li> <li>• Ap — 17,526mm (.69")</li> <li>• Ae — 3,81mm (.15")</li> <li>• Spindle speed — 1750 rev/min</li> </ul>	<p><b>CUTTING DATA</b></p> <ul style="list-style-type: none"> <li>• vc — 26 m/min (85.09 SFM)</li> <li>• F — 120 m/min</li> <li>• Ap — 20mm (.787")</li> <li>• Ae — 4mm (.15")</li> <li>• Ran for 20 minutes</li> </ul>
<p><b>RESULT</b></p> <ul style="list-style-type: none"> <li>• Standard HPMC chuck — 63 minute tool life.</li> <li>• New HydroForce HT — 101 minute tool life.</li> <li>• 299 m (984 ft) increment in tool life distance.</li> </ul>	<p><b>RESULT</b></p> <ul style="list-style-type: none"> <li>• Standard end mill adaptor — 80.9 minute tool life.</li> <li>• New HydroForce HT — 213.1 minute tool life.</li> <li>• 1612 m (5290 ft) increment in tool life distance.</li> </ul>	<p><b>RESULT</b></p> <ul style="list-style-type: none"> <li>• Straightness measured — 0,05mm.</li> <li>• No chip off and no wear found on cutting edges.</li> </ul>
<p><b>BENEFIT</b></p> <ul style="list-style-type: none"> <li>• 80% more tool life compared to competition.</li> <li>• Estimated savings of \$25,893 per year.</li> <li>• Exceptional surface finish.</li> <li>• Easy handling and tool presetting.</li> </ul>	<p><b>BENEFIT</b></p> <ul style="list-style-type: none"> <li>• 2.3x more tool life compared to competition.</li> <li>• Estimated savings of \$14,840 per year.</li> <li>• Exceptional surface finish.</li> <li>• Easy handling and tool presetting.</li> </ul>	<p><b>BENEFIT</b></p> <ul style="list-style-type: none"> <li>• Better quality of straightness.</li> <li>• No pullout.</li> <li>• Exceptional surface finish.</li> <li>• Easy handling and tool presetting.</li> </ul>



# ➤ Hydraulic Chuck Reducer Sleeves

with ERICKSON™ SAFE-LOCK® Smart Coolant

## Primary Application

ERICKSON™ Safe-Lock™ Smart Coolant reducer sleeves are specially designed for high-precision and secure clamping of Safe-Lock™ tool shanks. The special drive feature in the reducer sleeve and grooves in the tool shank prevent the end mill from spinning and pullout during extreme machining conditions. The Smart Coolant feature enhances efficient cooling and easy chip evacuation, which leads to increased tool life. In addition, the rear locking feature, which engages with a basic holder, provides bonus security for reducer sleeves against slippage and pullout.

Low vibration, in combination with pullout protection, excellent runout accuracy, and the hydraulic system's dampening property, results in very efficient machining with reduced and uniform tool wear. Due to the increased cutting depths and feeds, the metal removal rates can be increased up to the maximum limits of the tool and machine.

We are the first in the market to introduce the Safe-Lock™ with Smart Coolant feature in the high torque hydraulic chuck portfolio.

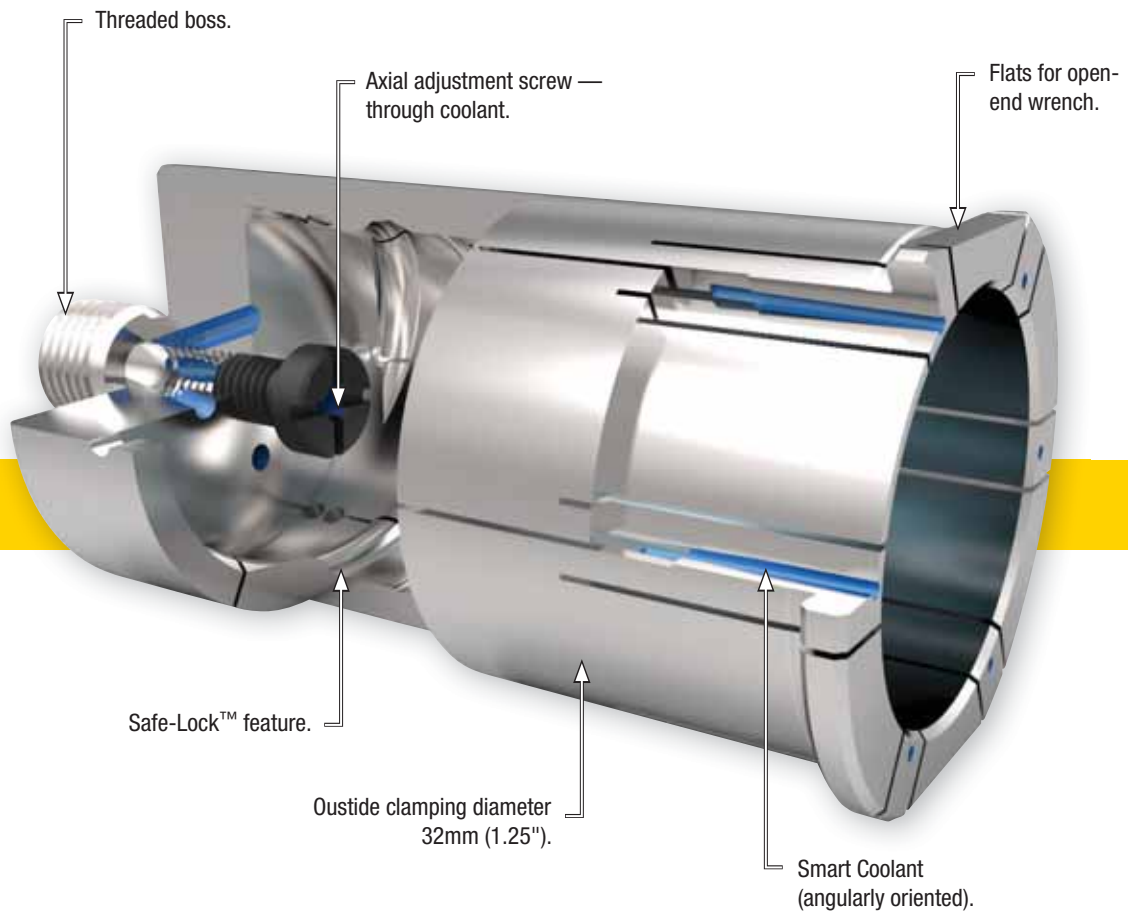
## Features and Benefits

### Stay Safe with Safe-Lock™ Smart Coolant

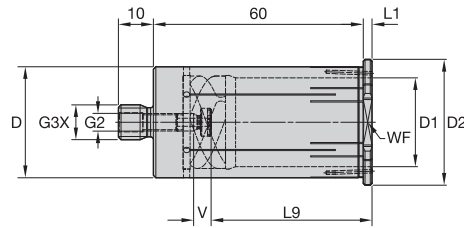
- For High-Performance Cutting (HPC).
- Highly accurate clamping due to hydraulic technology.
- High torque due to form-closed clamping.
- Highest stiffness by robust construction of HydroForce™.
- No loss of accuracy.
- No pullout of the tool.
- No spinning of the tool.
- No damage on workpiece or machine.
- Easy and quick clamping and unclamping cycles.
- Safe-Lock™ Smart Coolant reducer sleeves are available for shank diameters 12, 14, 16, 20, and 25mm (.5, .625, .75, and 1").







- One-piece design with slot configuration to seal coolant.
- Cutting tool must be cylindrical and have the Safe-Lock™ grooves on the shank.
- Sleeve must be screwed completely into the hydraulic chuck until shoulder mates against the hydraulic chuck front face.
- Cutting tool shank holding requirement at least to L9 dimension.



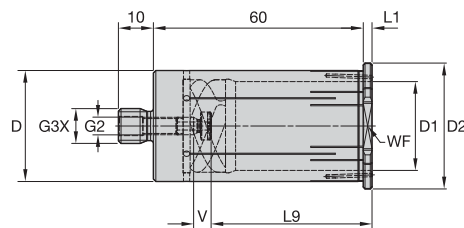
### ERICKSON™

#### MHCSFC • Metric

order number	catalogue number	D1	D2	D	L1	L9	V	G3X	G2	WF
5998607	32MHCSFC120M	12	36	32	2,5	41	4	M12	M6	32
5998608	32MHCSFC140M	14	36	32	2,5	41	4	M12	M6	32
5998609	32MHCSFC160M	16	36	32	2,5	44	4	M12	M6	32
5998610	32MHCSFC200M	20	36	32	2,5	46	4	M12	M6	32
5998751	32MHCSFC250M	25	36	32	2,5	47	4	M12	M6	32

NOTE: Inserting the cutting tool less than the gripping length (L9) of the sleeve can permanently damage the sleeve and hydraulic chuck. Recommended to clean coolant holes periodically with air.

- One-piece design with slot configuration to seal coolant.
- Cutting tool must be cylindrical and have the Safe-Lock™ grooves on the shank.
- Sleeve must be screwed completely into the hydraulic chuck until shoulder mates against the hydraulic chuck front face.
- Cutting tool shank holding requirement at least to L9 dimension.



### ERICKSON™

#### HCSFC • Inch

order number	catalogue number	D1	D2	D	L1	L9	V	G3X	G2	WF
5998754	12HCSFC0500	.500	1.417	1.250	.098	1.614	.154	M12	M6	1.260
5998755	12HCSFC0625	.625	1.417	1.250	.098	1.732	.154	M12	M6	1.260
5998756	12HCSFC0750	.750	1.417	1.250	.098	1.811	.154	M12	M6	1.260
5998757	12HCSFC1000	1.000	1.417	1.250	.098	1.850	.154	M12	M6	1.260

NOTE: Inserting the cutting tool less than the gripping length (L9) of the sleeve can permanently damage the sleeve and hydraulic chuck. Recommended to clean coolant holes periodically with air.

### ■ Safe-Lock™ Smart Coolant

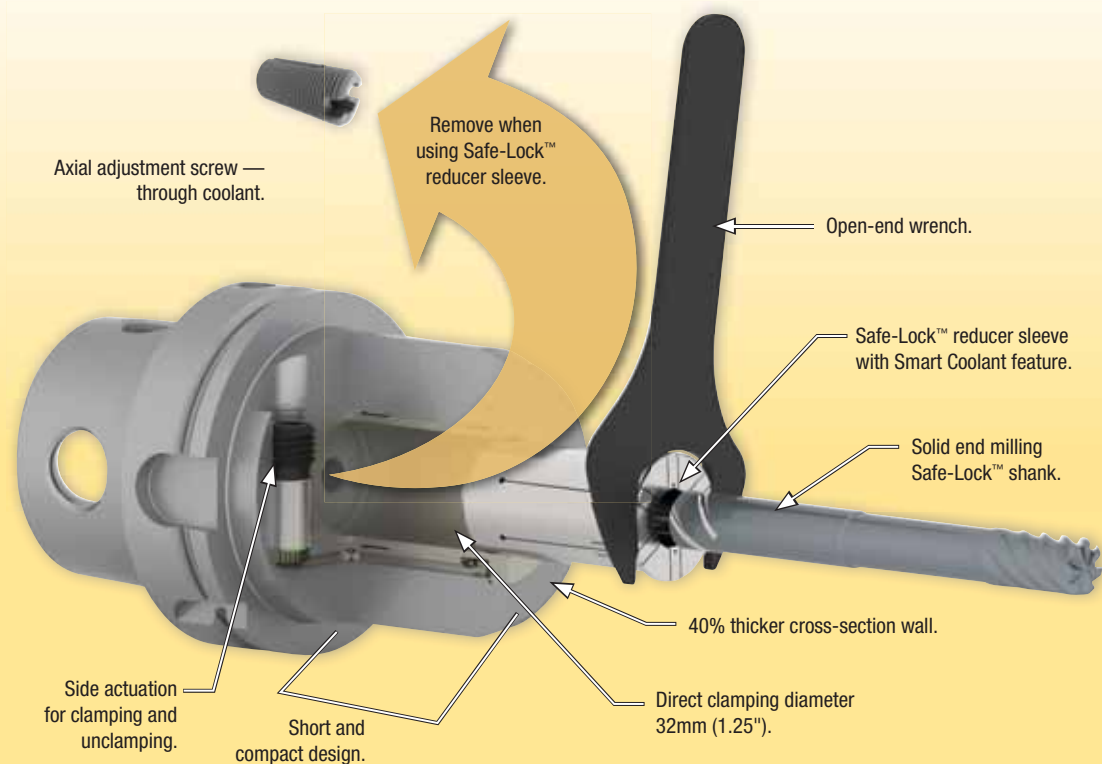
The Safe-Lock™ Smart Coolant feature is a pullout protection system with an effective cooling feature for high-performance machining, in particular for heavy-duty machining. This is achieved by helical grooves that are ground into the tool shank. These, in combination with the drive feature in a Safe-Lock™ Smart Coolant reducer sleeve, prevent the tool from being pulled out during extreme machining conditions.

In addition, the rear-locking feature, which engages with a basic holder, provides bonus security for reducer sleeves against slippage and pullout.

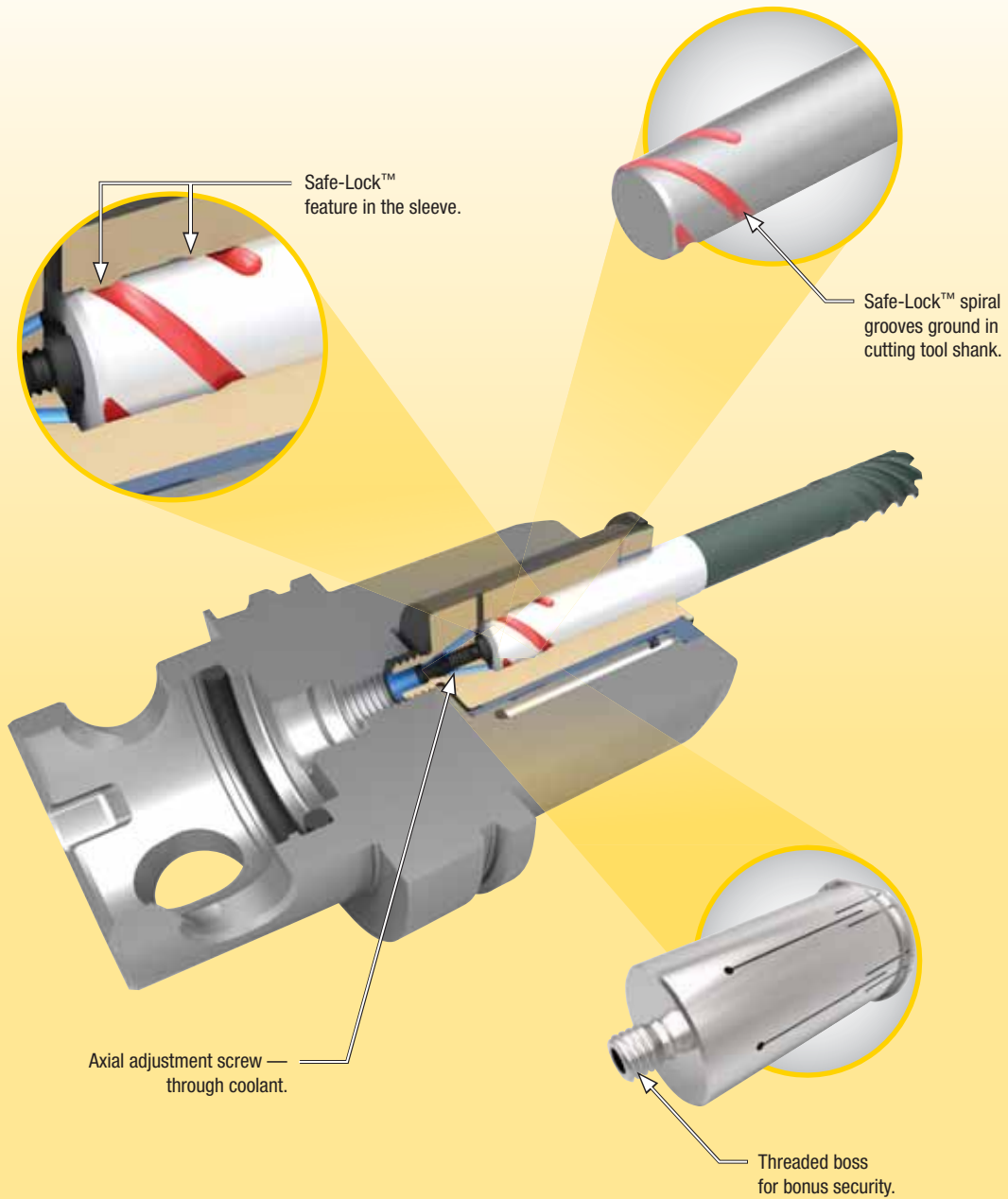
By locking the cutting tool in the Safe-Lock™ Smart Coolant reducer sleeve, the pullout security ensures optimum process reliability in conjunction with the HydroForce™ HT, which has benefits such as runout accuracy, excellent torque, and a unique dampening property. This makes for longer tool life, higher productivity, and excellent part accuracy for our customers.

- Optimum process reliability and security.
- Higher productivity.
- Greater cutting depths and higher feed rates.
- Time-saving and longer cutting tool life.
- Less vibration.
- Optimises the cutting edge technology.
- Able to fully utilise potential of machine tool.
- Minimises potential scrap.
- High accuracy clamping.
- Excellent runout.
- Helical grooves.
- Adjustable clamping length.
- No need to change NC programme after regrinding.

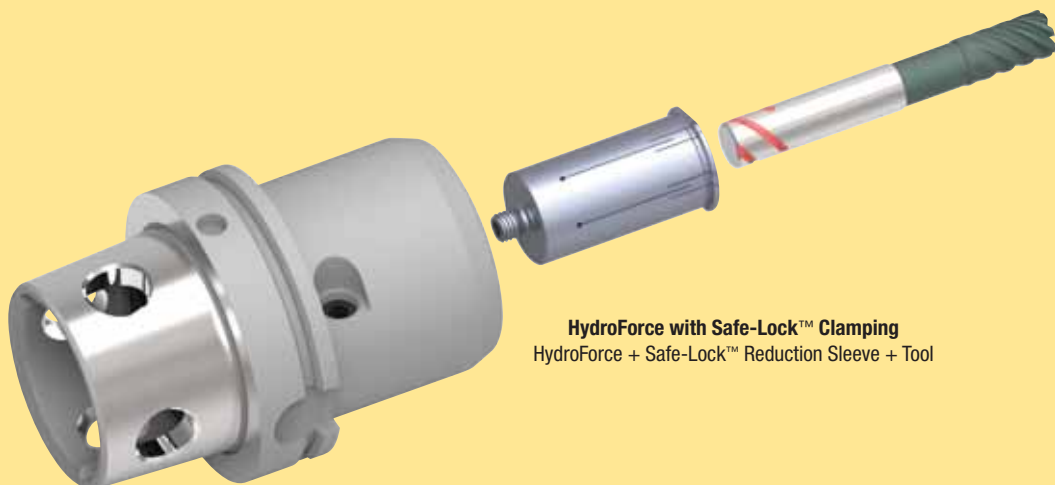
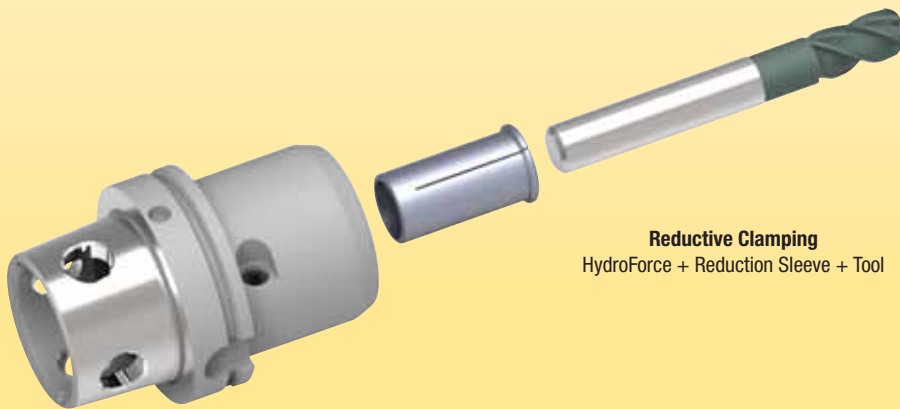
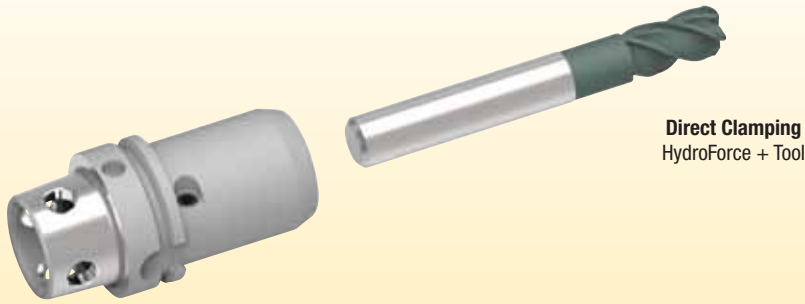
### ■ HydroForce – Conversion from Standard to Safe-Lock™



■ Product Construction and Assembly



■ Clamping Combinations with HydroForce™



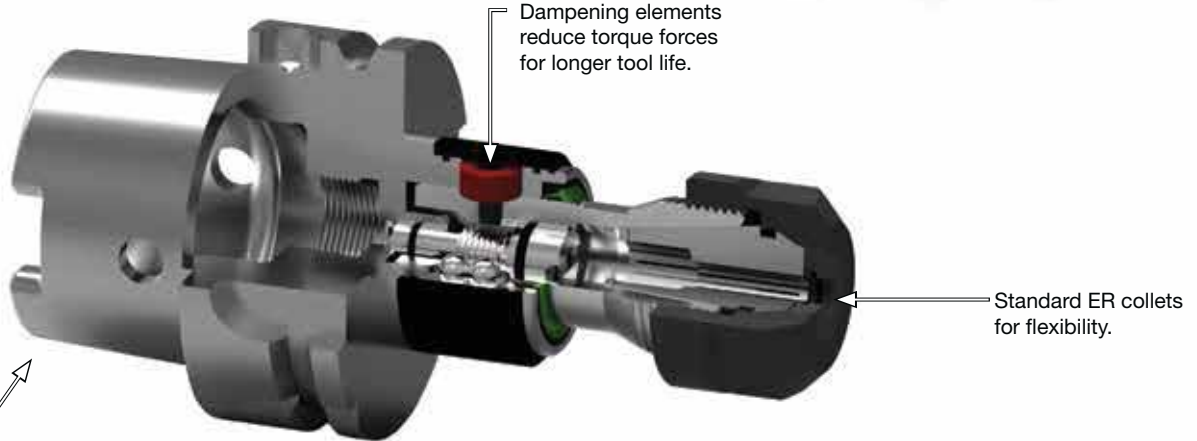
# Synchro Plus™ Tap Holders

## Primary Application

- First choice for rotating tapping applications.
- Synchronise your tapping application to achieve unparalleled thread quality with the new Synchro Plus.
- Utilises standard ER collets for reliable and repeatable production processes.
- Modular system provides maximum flexibility.

## Features and Benefits

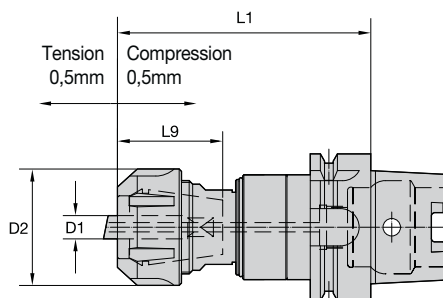
Features	Benefits
<ul style="list-style-type: none"><li>• Uses standard ER tapping collets (DIN ISO 15488).</li></ul>	<ul style="list-style-type: none"><li>• Interchangeable and easily replaced.</li></ul>
<ul style="list-style-type: none"><li>• Length compensation.</li></ul>	<ul style="list-style-type: none"><li>• Better tool life and thread quality.</li></ul>
<ul style="list-style-type: none"><li>• Elastomer springs.</li></ul>	<ul style="list-style-type: none"><li>• No swing up of cutting edge.</li></ul>
<ul style="list-style-type: none"><li>• Internal coolant and MQL capability.</li></ul>	<ul style="list-style-type: none"><li>• Better tool life.</li></ul>
<ul style="list-style-type: none"><li>• Modular system.</li></ul>	<ul style="list-style-type: none"><li>• Works with existing end mill and Whistle Notch™ adaptors.</li></ul>



Through-coolant capability.

Dampening elements reduce torque forces for longer tool life.

Standard ER collets for flexibility.



### HSK63A Synchro Plus • Metric

order number	catalogue number	collet size	D1	D2	L1	L9	tap size	max torque Nm (ft. lbs.)
5525685	HSK63ASYTER20095M	ER20	4,5–10	34.000	99.100	45.000	M4 – M12	40 (29)
5525686	HSK63ASYTER32108M	ER32	4,5–16	45.000	112.400	52.000	M4 – M20	170 (125)

NOTE: For ER collets, see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages J58–J59.  
 Coolant tube must be ordered separately; see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) page L44.  
 Need two adjustment wrenches to properly tighten; option to use tightening device with new torque wrench possible.  
 Adjustment screws ordered separately.  
 Adjustment range for length adjusting screw is +2mm for both ER20 and ER32.  
 Place one wrench on flat below the nut and the other wrench on the nut and use opposing force to tighten or loosen.  
 Sealing disks sold separately; see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages L23–L29.

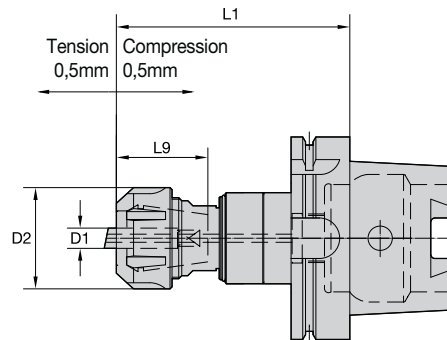
### Optional Accessories

holder description	locknut	locknut wrench set	tightening device	torque wrench	torque wrench adaptor	HSK coolant tube	HSK wrench for coolant assembly
HSK63ER20	1859410	CWER20SYT -SET	TFSYT	TWTF2	TWAHEX	1132145	1134161
HSK63ER32	1128857	CWER32SYT -SET	TFSYT	TWTF2	TWAROUND	1132145	1134161

### Length Adjustment

	adjustment range	adjustment screw catalogue number	adjustment screw wrench
ER 20:	6–7mm	ASER20006M	TWASER20
	8–9mm	ASER20008M	TWASER20
	10mm	ASER20010M	TWASER20
ER 32:	9mm	ASER32009M	TWASER32
	10–12mm	ASER32010M	TWASER32
	14–16mm	ASER32014M	TWASER32





## ■ HSK100A Synchro Plus • Metric

order number	catalogue number	collet size	D1	D2	L1	L9	tap size	max torque Nm (ft. lbs.)
5525687	HSK100ASYTER20102M	ER20	4,5–10	34.000	105.600	45.000	M4 – M12	40 (29)
5525688	HSK100ASYTER32115M	ER32	4,5–16	45.000	118.900	52.000	M4 – M20	170 (125)

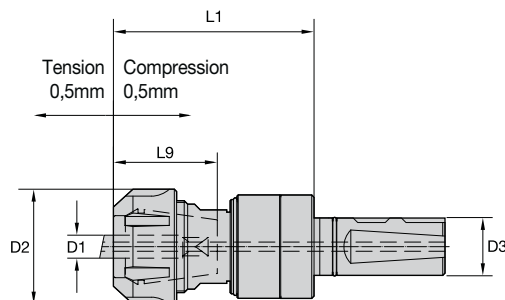
NOTE: For ER collets, see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages J58–J59.  
 Coolant tube must be ordered separately; see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) page L44.  
 Need two adjustment wrenches to properly tighten; option to use tightening device with new torque wrench possible.  
 Adjustment screws ordered separately.  
 Adjustment range for length adjusting screw is +2mm for both ER20 and ER32.  
 Place one wrench on flat below the nut and the other wrench on the nut and use opposing force to tighten or loosen.  
 Sealing disks sold separately; see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages L23–L29.

## ■ Optional Accessories

holder description	locknut	locknut wrench set	tightening device	torque wrench	torque wrench adaptor	HSK coolant tube	HSK wrench for coolant assembly
HSK100ER20	1859410	CWER20SYT -SET	TFSYT	TWTF2	TWAHEX	1132147	1132993
HSK100ER32	1128857	CWER32SYT -SET	TFSYT	TWTF2	TWAROUND	1132147	1132993

## ■ Length Adjustment

	adjustment range	adjustment screw catalogue number	adjustment screw wrench
ER 20:	6–7mm	ASER20006M	TWASER20
	8–9mm	ASER20008M	TWASER20
	10mm	ASER20010M	TWASER20
ER 32:	9mm	ASER32009M	TWASER32
	10–12mm	ASER32010M	TWASER32
	14–16mm	ASER32014M	TWASER32



### Straight Shank Synchro Plus • Metric

Tooling Systems

order number	catalogue number	collet size	D1	D2	D3	L1	L9	tap size	max torque Nm (ft. lbs.)
5525781	SS25SYTER20073M	ER20	4,5-10	34.000	25,00	76.600	45.000	M4 – M12	40 (29)
5525782	SS25SYTER32087M	ER32	4,5-16	45.000	25,00	90.900	52.000	M4 – M20	170 (125)

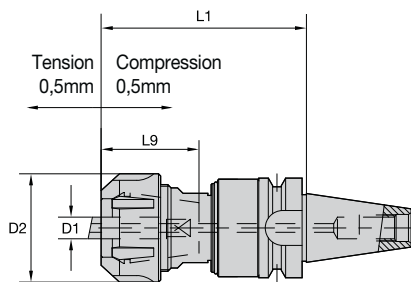
NOTE: For ER collets, see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages J58–J59.  
 Coolant tube must be ordered separately; see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) page L44.  
 Need two adjustment wrenches to properly tighten; option to use tightening device with new torque wrench possible.  
 Adjustment screws ordered separately.  
 Adjustment range for length adjusting screw is +2mm for both ER20 and ER32.  
 Place one wrench on flat below the nut and the other wrench on the nut and use opposing force to tighten or loosen.  
 For Whistle Notch™ and end mill adaptors in every spindle connection, see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809).  
 Sealing disks sold separately; see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages L23–L29.

### Optional Accessories

holder description	locknut	locknut wrench set	tightening device	torque wrench	torque wrench adaptor
SS25ER20	1859410	CWER20SYT -SET	TFSYT	TWTF2	TWAHEX
SS25ER32	1128857	CWER32SYT -SET	TFSYT	TWTF2	TWAROUND

### Length Adjustment

	adjustment range	adjustment screw catalogue number	adjustment screw wrench
ER 20:	6–7mm	ASER20006M	TWASER20
	8–9mm	ASER20008M	TWASER20
	10mm	ASER20010M	TWASER20
ER 32:	9mm	ASER32009M	TWASER32
	10–12mm	ASER32010M	TWASER32
	14–16mm	ASER32014M	TWASER32



### ■ BT Synchro Plus • Metric

order number	catalogue number	collet size	D1	D2	L1	L9	tap size	max torque Nm (ft. lbs.)
5525689	BT30BSYTER20085M	ER20	4,5-10	34.000	90.100	45.000	M4 – M12	40 (29)
5525780	BT30BSYTER32073M	ER32	4,5-10	45.000	98.400	52.000	M4 – M20	170 (125)

NOTE: For ER collets, see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages J58–J59.  
 Coolant tube must be ordered separately; see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) page L44.  
 Need two adjustment wrenches to properly tighten; option to use tightening device with new torque wrench possible.  
 Adjustment screws ordered separately.  
 Adjustment range for length adjusting screw is +2mm for both ER20 and ER32.  
 Place one wrench on flat below the nut and the other wrench on the nut and use opposing force to tighten or loosen.  
 Sealing disks sold separately; see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages L23–L29.  
 For complete list of retention knobs, see the Kennametal Innovations Master Catalogue Tooling Systems 2013 (A-12-02809) pages L45–L50.

### ■ Optional Accessories

holder description	locknut	locknut wrench set	tightening device	torque wrench	torque wrench adaptor
BT30ER20	1859410	CWER20SYT -SET	TFSYT	TWTF2	TWAHEX
BT30ER32	1128857	CWER32SYT -SET	TFSYT	TWTF2	TWAROUND

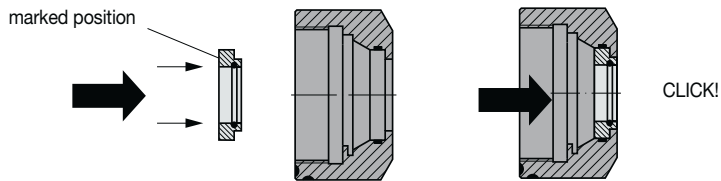
### ■ Length Adjustment

	adjustment range	adjustment screw catalogue number	adjustment screw wrench
ER 20:	6–7mm	ASER20006M	TWASER20
	8–9mm	ASER20008M	TWASER20
	10mm	ASER20010M	TWASER20
ER 32:	9mm	ASER32009M	TWASER32
	10–12mm	ASER32010M	TWASER32
	14–16mm	ASER32014M	TWASER32

## Assembly Instructions for Synchro Plus

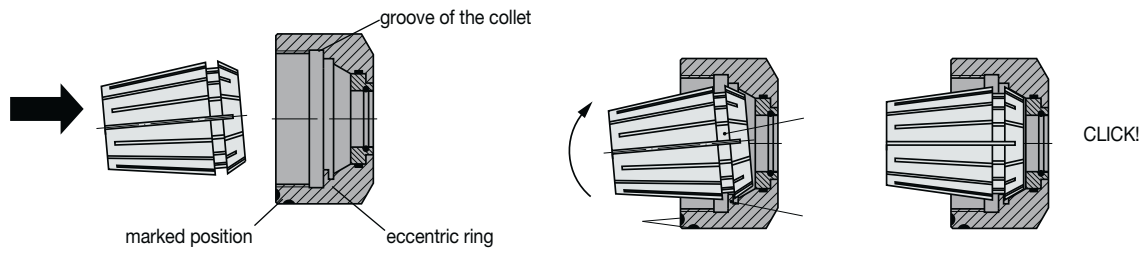
### Assembly of the Sealing Disk

1



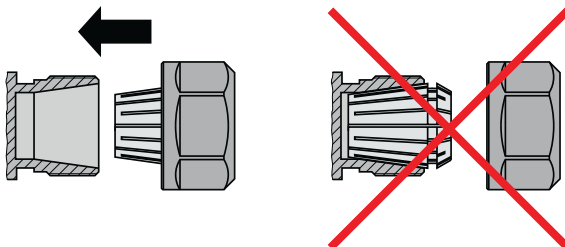
### Assembly of the Collet

2

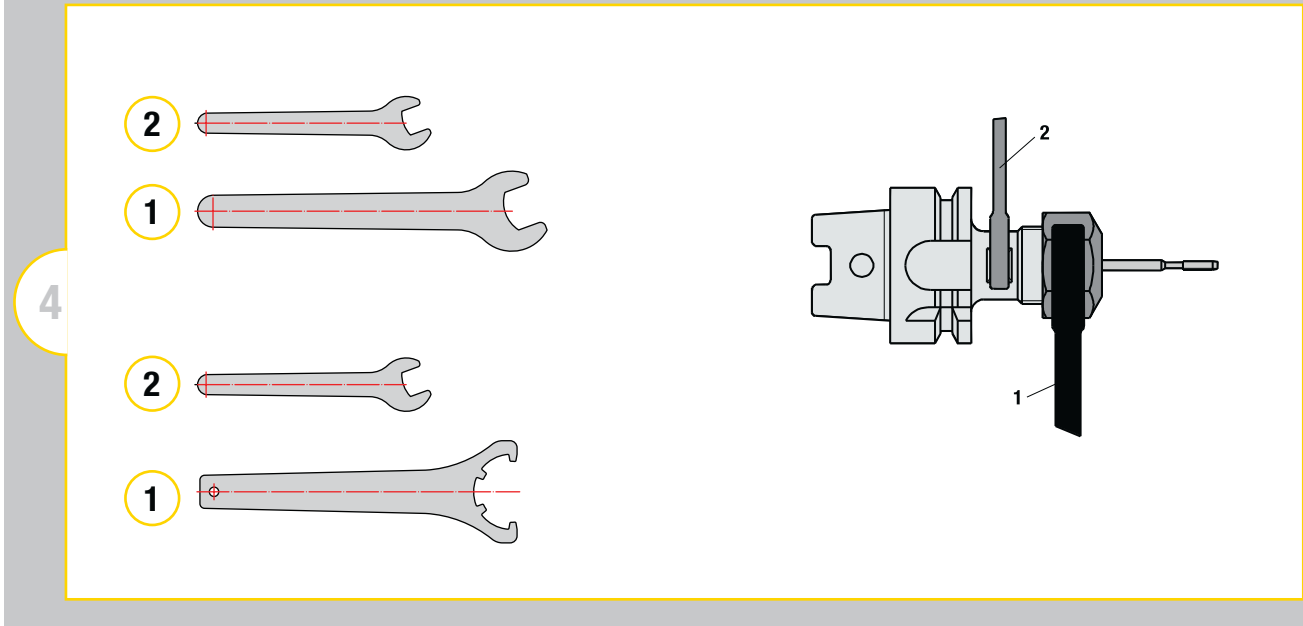


### Screw Clamping Nut with Engaged Collet onto the Thread Holder

3



**Tool Set for Synchro Plus 1 + 3**



Tooling Systems

# ➤ ERICKSON™ NG Induction Shrink Fit Unit

A complete Shrink Fit unit to fully support your thermo-tool needs!

- High-performance Shrink Fit machine for all tools.
- With intelligent new generation coil.
- With integrated contact cooling system.

## Features and Benefits

- Tool exchanges in 3–5 seconds.
- Complete tool cooling in 30 seconds.
- Simultaneous shrinking and cooling in record time (3 stations).
- Reduction of tool assembly cost.
- Adaptable to multi-clamping.

### Delivery Includes:

- Intelligent NG coil VS32-h.
- Integrated contact cooling.
- Speed cooler.
- Cooling manager.
- Rotary table with 3 stations.
- 2 chuck supports for rotary table for your selection.
- Craning boxes.
- System cart.
- Inserts for system cart.
- TME Cooling System for safe handling.
  - 2 cooling adaptors for Shrink Fit extensions.
  - 1 cooling body for Shrink Fit chucks.
- Protection gloves.
- Safe packaging.



**ERICKSON NG Induction Shrink Fit Unit comes complete, ready to work!**



### Enhanced Coil Technology

- Coil is flexible and adjustable by diameter.
- Coils can be set to the size of the diameter with one turn.
- Stop disks are no longer necessary.
- Chucks are only heated where it is intended.
- Intelligent coil to protect from overheating of the chuck.

Select the back ends of the holders you need to shrink and the pots you need will be included with your unit.

**Technical Details**

- Power: 13 kW
- Main voltage: 3 x 400–480 V, 16 A
- Tools: solid carbide and HSS from Ø 3–32mm
- Maximum length of shrink fit chuck = 570mm
- Dimensions W x D x H = 860 x 600 x 990mm
- Weight 70 kg
- HD kit for diameters up to 50 mm/2"

**US Version**

- Order No. **5905657**
- Cat No. **TTPWCNGNA**

**EU Version**

- Order No. **5906168**
- Cat No. **TTPWCNGEU**



**Your first choice for fast, reliable heating and cooling of your Shrink Fit tools.**





■ Shrink Fit Unit Complete

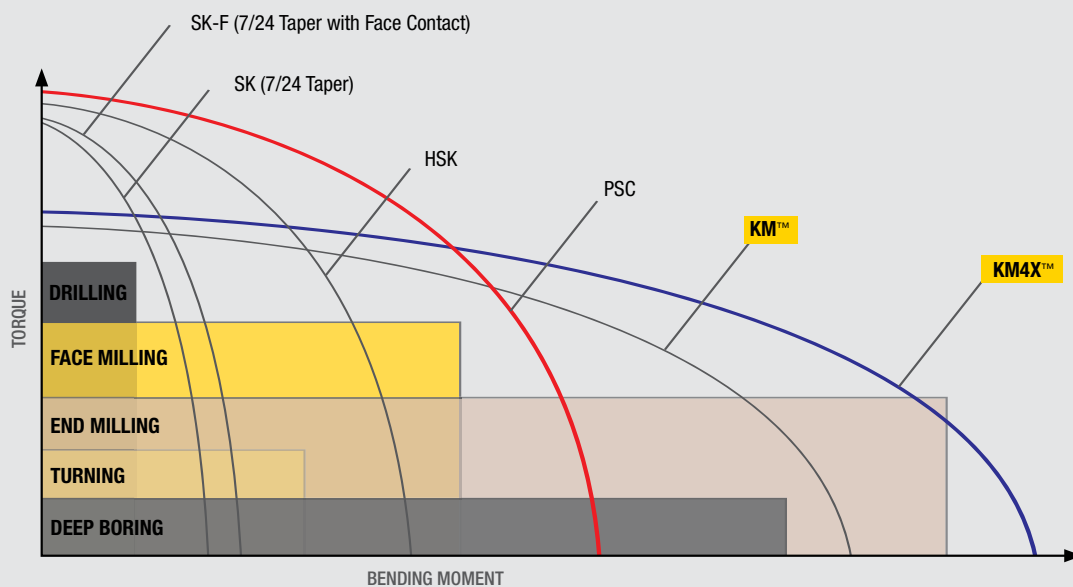
order number	catalogue number	description
5905657	TTPWCNGNA	POWER CLAMP NEW GEN SHRINK FIT (UL and CSA approved) for North America
5906168	TTPWCNGEU	POWER CLAMP NEXT GEN SHRINK FIT (CE and FC approved) for Europe/ROW



Tooling Systems

# PSC50

## Static and Rotating Tools



The Polygonal Shank Coupling (PSC) is an established ISO 26623 standard connection, offering modular flexibility and utility for lathe and multi-axis machine tool applications.

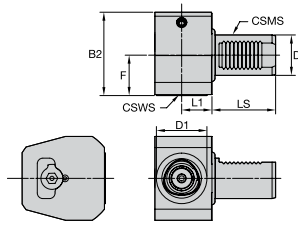
While modular KM™ and KM4X™ connections can achieve higher speeds, greater clamping forces, and bending moment stability, PSC provides an alternative option compared to traditional steep taper or HSK connections.



## **ERICKSON™**

- Rotating holders include collet chucks, Shrink Fit chucks, hydraulic chucks, end mill holders, and drill holders.
- Extensions to build custom-length tools.
- Static cutting heads for a wide variety of ANSI/ISO turning inserts.
- Modular units to hold Beyond™ Evolution™ cutting blades for grooving, cut-off, face grooving, and multi-directional turning.
- Modular units to hold Top Notch™ cutting blades for grooving and threading.
- ISO 26623 compliant. Polygonal taper.
- High torque transmission.
- Compatible with all PSC50 machines and tooling.
- Through-coolant enabled.

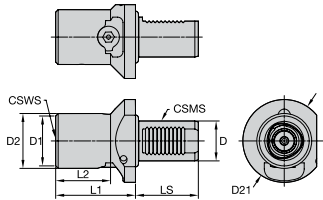
### CLAMPING UNITS • VDI ADAPTERS



#### ■ CLRR/L • VDI Right Angle

order number	catalog number	CSMS system size	CSWS system size	D	D1	F	B2	L1	LS	wrench size	kg						
				mm	in	mm	in	mm	in	mm	in						
<b>right hand</b>																	
6344521	PSC50CLRRVDI4040	VDI40	PSC50	40	1.575	50	1.969	40	1.575	83	3.250	30	1.181	63	2.480	10 mm	2,99
6344439	PSC50CLRRVDI5050	VDI50	PSC50	50	1.969	50	1.969	50	1.969	100	3.940	30	1.181	78	3.071	10 mm	2,99
<b>left hand</b>																	
6344522	PSC50CLRLVDI4040	VDI40	PSC50	40	1.575	50	1.969	40	1.575	83	3.250	30	1.181	63	2.480	10 mm	2,99
6344440	PSC50CLRLVDI5050	VDI50	PSC50	50	1.969	50	1.969	50	1.969	100	3.940	30	1.181	78	3.071	10 mm	2,99

NOTE: Spare parts information can be found on kennametal.com.

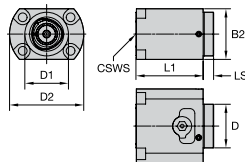


#### ■ CLAN/V • VDI Axial

order number	catalog number	CSMS system size	CSWS system size	D	D2	D1	D21	L1	L2	LS	wrench size	kg							
				mm	in	mm	in	mm	in	mm	in								
6344525	PSC50CLANVDI4080	VDI40	PSC50	40	1.575	55	2.165	50	1.969	83	3.268	80	3.150	55	2.165	63	2.480	10 mm	2,13
6344523	PSC50CLANVDI5080	VDI50	PSC50	50	1.969	55	2.165	50	1.969	98	3.858	80	3.150	55	2.165	78	3.070	10 mm	2,13
6344524	PSC50CLAVVDI5080	VDI50	PSC50	50	1.969	55	2.165	50	1.969	98	3.858	80	3.150	55	2.165	78	3.070	10 mm	2,13

NOTE: Spare parts information can be found on kennametal.com.

### CLAMPING UNITS • FLANGE MOUNT

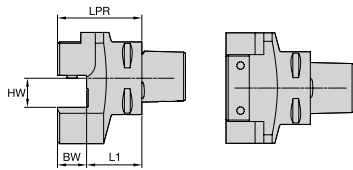


#### ■ CLNS-EF • Flange Mount, Side Access

order number	catalog number	CSWS system size	D	D1	D2	B2	L1	LS	wrench size	kg						
			mm	in	mm	in	mm	in	mm	in						
6344438	PSC50CLNSEF	PSC50	50	1.967	50	1.969	85	3.347	58	2.280	77	3.032	12	.472	10 mm	2,32

NOTE: Spare parts information can be found on kennametal.com.

### ETA SQUARE SHANK ADAPTERS



#### ETA • Metric

order number	catalog number	BW	HW	L1	LPR	kg
6334584	PSC50ETAN2020M	20	20	38	58	1,44

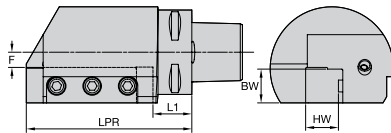
NOTE: Spare parts information can be found on kennametal.com.

#### ETA • Inch

order number	catalog number	BW	HW	L1	LPR	lbs
6334583	PSC50ETAN12	.744	.750	1.500	2.244	3.39

NOTE: Spare parts information can be found on kennametal.com.

### STA SQUARE SHANK ADAPTERS



#### STA • Metric

order number	catalog number	BW	F	HW	L1	LPR	kg
right hand 6334585	PSC50STAR2020M	20	10	20	23	98	2,05
left hand 6334588	PSC50STAL2020M	20	10	20	23	98	2,01

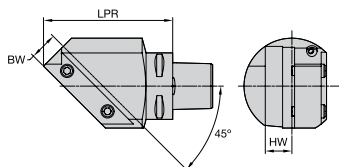
NOTE: Spare parts information can be found on kennametal.com.

#### STA • Inch

order number	catalog number	BW	HW	L1	F	LPR	lbs
right hand 6334586	PSC50STAR12	.750	.750	.906	.431	3.858	4.66
left hand 6334589	PSC50STAL12	.750	.750	.906	.431	3.858	4.43

NOTE: Spare parts information can be found on kennametal.com.

### 45° TA SQUARE SHANK ADAPTERS



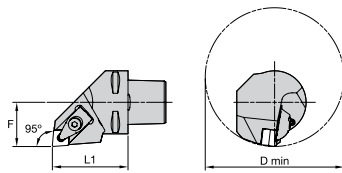
#### 45° TA • Metric

order number	catalog number	BW	HW	LPR	kg
right hand 6334587	PSC5045STAR2020M	20	20	98	1,75
left hand 6334590	PSC5045TAL2020M	20	20	98	2,01

NOTE: Spare parts information can be found on kennametal.com.

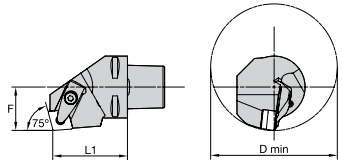


## CUTTING UNITS • D-CLAMPING



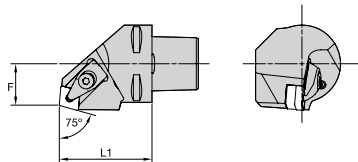
## ■ DCLN 95°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6319659	PSC50DCLNR12	60	2.362	35	1.378	110	4.331	CN..120408/CN..432	0,80	PSCSPD4PKG
6319660	PSC50DCLNR16	60	2.362	35	1.378	125	4.921	CN..160612/CN..543	0,94	PSCSPD5PKG
6319691	PSC50DCLNR19	60	2.362	35	1.378	125	4.921	CN..190612/CN..643	0,91	PSCSPD6PKG
<b>left hand</b>										
6319656	PSC50DCLNL12	60	2.362	35	1.378	110	4.331	CN..120408/CN..432	0,92	PSCSPD4PKG
6319657	PSC50DCLNL16	60	2.362	35	1.378	125	4.921	CN..160612/CN..543	0,94	PSCSPD5PKG
6319658	PSC50DCLNL19	60	2.362	35	1.378	125	4.921	CN..190612/CN..643	0,91	PSCSPD6PKG



## ■ DCKN 75°

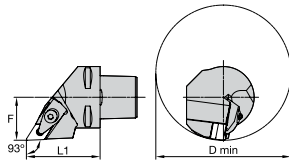
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6319655	PSC50DCKNR12	60	2.362	35	1.378	110	4.331	CN..120408/CN..432	0,94	PSCSPD4PKG
<b>left hand</b>										
6319654	PSC50DCKNL12	60	2.362	35	1.378	110	4.331	CN..120408/CN..432	0,94	PSCSPD4PKG



## ■ DCRN 75°

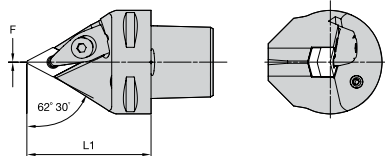
order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
<b>right hand</b>								
6319693	PSC50DCRNR12	60	2.362	27	1.063	CN..120408/CN..432	0,81	PSCSPD4PKG
6319694	PSC50DCRNR16	60	2.362	27	1.063	CN..160612/CN..543	0,90	PSCSPD5PKG
<b>left hand</b>								
6319692	PSC50DCRNL12	60	2.362	27	1.063	CN..120408/CN..432	0,92	PSCSPD4PKG

## CUTTING UNITS • D-CLAMPING



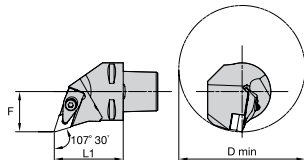
## ■ DDJN 93°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6319738	PSC50DDJNR11	60	2.362	35	1.378	65	2.559	DN..110408/DN..332	0,85	PSCSPD3PKG
6319740	PSC50DDJNR1504	60	2.362	35	1.378	110	4.331	DN..150408/DN..432	0,70	PSCSPD4PKG
6319739	PSC50DDJNR1506	60	2.362	35	1.378	110	4.331	DN..150608/DN..442	0,87	PSCSPD4PKG
<b>left hand</b>										
6319735	PSC50DDJNL11	60	2.362	35	1.378	65	2.559	DN..110408/DN..332	0,85	PSCSPD3PKG
6319737	PSC50DDJNL1504	60	2.362	35	1.378	110	4.331	DN..150408/DN..432	0,70	PSCSPD4PKG
6319736	PSC50DDJNL1506	60	2.362	35	1.378	110	4.331	DN..150608/DN..442	0,87	PSCSPD4PKG



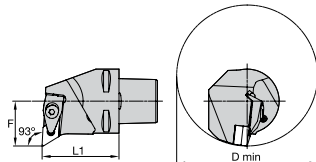
## ■ DDNN 62° 30'

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6334639	PSC50DDNN1504	60	2.362	0	.000	DN..150408/DN..432	0,55	PSCSPD4PKG
6334638	PSC50DDNN1506	60	2.362	0	.000	DN..150608/DN..442	0,74	PSCSPD4PKG



## ■ DDHN 107° 30'

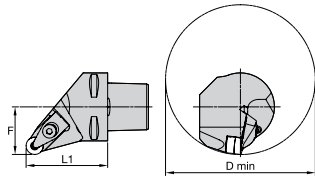
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6319734	PSC50DDHNR1504	60	2.362	35	1.378	110	4.331	DN..150408/DN..432	0,70	PSCSPD4PKG
6319733	PSC50DDHNR1506	60	2.362	35	1.378	110	4.331	DN..150608/DN..442	0,92	PSCSPD4PKG
<b>left hand</b>										
6319732	PSC50DDHNL1504	60	2.362	35	1.378	110	4.331	DN..150408/DN..432	0,70	PSCSPD4PKG
6319731	PSC50DDHNL1506	60	2.362	35	1.378	110	4.331	DN..150608/DN..442	0,91	PSCSPD4PKG



## ■ DDUN 93°

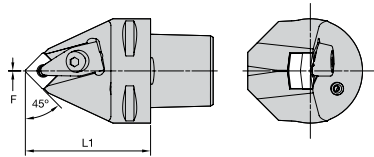
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6319744	PSC50DDUNR1504	60	2.362	35	1.378	110	4.331	DN..150408/DN..432	0,70	PSCSPD4PKG
6319743	PSC50DDUNR1506	60	2.362	35	1.378	110	4.331	DN..150608/DN..442	1,01	PSCSPD4PKG
<b>left hand</b>										
6319742	PSC50DDUNL1504	60	2.362	35	1.378	110	4.331	DN..150408/DN..432	0,70	PSCSPD4PKG
6319741	PSC50DDUNL1506	60	2.362	35	1.378	110	4.331	DN..150608/DN..442	1,01	PSCSPD4PKG

### CUTTING UNITS • D-CLAMPING



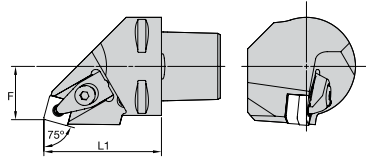
■ DRSN

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand										
6319616	PSC50DRSNR12	60	2.362	35	1.378	110	4.331	RN..1204002/RN..43	0,87	PSCSPD4PKG
left hand										
6319615	PSC50DRSNL12	60	2.362	35	1.378	110	4.331	RN..120400/RN..43	0,87	PSCSPD4PKG



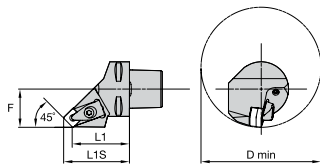
■ DSDN 45°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6319619	PSC50DSDNN12	60	2.362	0	.000	SN..120408/SN..432	0,79	PSCSPD4PKG
6319620	PSC50DSDNN19	65	2.559	0	.000	SN..190612/SN..643	0,77	PSCSPD6PKG



■ DSRN 75°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6334520	PSC50DSRNR12	60	2.362	27	1.063	SN..120408/SN..432	0,89	PSCSPD4PKG
6334571	PSC50DSRNR15	60	2.362	27	1.063	SN..150612/SN..543	0,82	PSCSPD5PKG

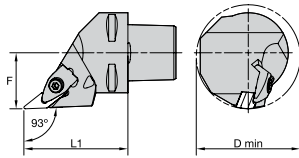


■ DSSN 45°

order number	catalog number	L1		L1S		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in			
right hand												
6334574	PSC50DSSNR12	52	2.047	60	2.374	35	1.378	110	4.331	SN..120408/SN..432	0,81	PSCSPD4PKG
6334573	PSC50DSSNR15	50	1.969	60	2.370	35	1.378	125	4.921	SN..150612/SN..543	0,89	PSCSPD5PKG
left hand												
6334572	PSC50DSSNL12	52	2.047	60	2.374	35	1.378	110	4.331	SN..120408/SN..432	0,81	PSCSPD4PKG

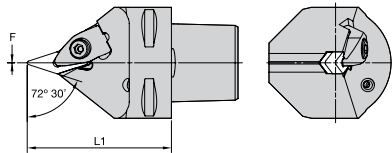


## CUTTING UNITS • D-CLAMPING



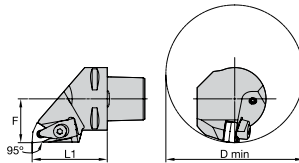
## ■ DVJN 93°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand										
6319618	PSC50DVJNR16	65	2.559	35	1.378	65	2.559	VN..160408/VN..332	0,87	PSCSPD3PKG
left hand										
6319617	PSC50DVJNL16	65	2.559	35	1.378	65	2.559	VN..160408/VN..332	0,87	PSCSPD3PKG



## ■ DVVN 72° 30'

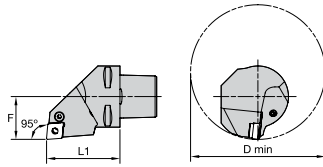
order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6319801	PSC50DVVNN16	65	2.559	0	.000	VN..160408/VN..332	0,79	PSCSPD3PKG



## ■ DWLN 95°

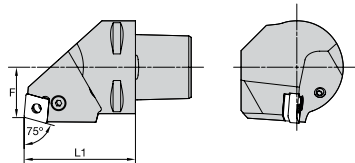
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand										
6334577	PSC50DWLNR06	60	2.362	35	1.378	65	2.559	WN..060408/WN..332	0,70	PSCSPD3PKG
6334579	PSC50DWLNR08	60	2.362	35	1.378	110	4.331	WN..080408/WN..432	0,77	PSCSPD4PKG
left hand										
6334575	PSC50DWLNL06	60	2.362	35	1.378	65	2.559	WN..060408/WN..332	0,81	PSCSPD3PKG
6334576	PSC50DWLNL08	60	2.362	35	1.378	110	4.331	WN..080408/WN..432	0,70	PSCSPD4PKG

CUTTING UNITS • P-CLAMPING



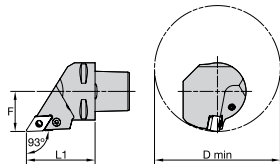
■ PCLN 95°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6329971	PSC50PCLNR12	60	2.362	35	1.378	110	4.331	CN..120408/CN..432	0,91	PSCSPP4PKG
6329972	PSC50PCLNR19	60	2.362	35	1.378	125	4.921	CN..190612/CN..643	0,90	PSCSPP6PKG
<b>left hand</b>										
6329949	PSC50PCLNL12	60	2.362	35	1.378	110	4.331	CN..120408/CN..432	0,91	PSCSPP4PKG
6329950	PSC50PCLNL19	60	2.362	35	1.378	125	4.921	CN..190612/CN..643	0,90	PSCSPP6PKG



■ PCRN 75°

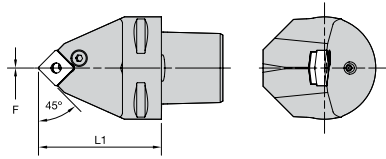
order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
<b>right hand</b>								
6316680	PSC50PCRR12	60	2.362	27	1.063	CN..120408/CN..432	0,90	PSCSPP4PKG
<b>left hand</b>								
6316677	PSC50PCRN12	60	2.362	27	1.063	CN..120408/CN..432	0,90	PSCSPP4PKG
6316678	PSC50PCRN16	60	2.362	27	1.063	CN..160612/CN..543	0,93	PSCSPP5PKG
6316679	PSC50PCRN19	60	2.362	27	1.063	CN..190612/CN..643	0,92	PSCSPP6PKG



■ PDJN 93°

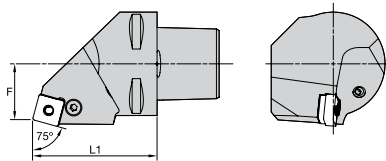
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6329916	PSC50PDJNR11	60	2.362	35	1.378	110	4.331	DN..110408/DN..332	0,84	PSCSPP3PKG
6329917	PSC50PDJNR15	60	2.362	35	1.378	110	4.331	DN..150608/DN..442	0,85	PSCSPP4PKG
<b>left hand</b>										
6329913	PSC50PDJNL11	60	2.362	35	1.378	110	4.331	DN..110408/DN..332	0,84	PSCSPP3PKG
6329914	PSC50PDJNL15	60	2.362	35	1.378	110	4.331	DN..150608/DN..442	0,84	PSCSPP4PKG

CUTTING UNITS • P-CLAMPING



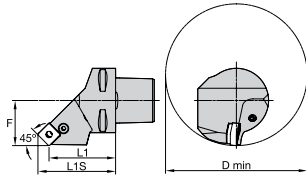
■ PSDN 45°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6329918	PSC50PSDNN12	60	2.362	0	.000	SN..120408/SN..432	0,78	PSCSPP4PKG
6329919	PSC50PSDNN19	60	2.362	0	.000	SN..190612/SN..643	0,80	PSCSPP6PKG



■ PSRN 75°

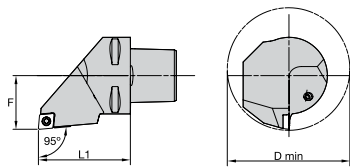
order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
<b>right hand</b>								
6329941	PSC50PSRNR19	60	2.362	27	1.063	SN..190612/SN..643	0,82	PSCSPP6PKG
<b>left hand</b>								
6329920	PSC50PSRNL19	60	2.362	27	1.063	SN..190612/SN..643	0,82	PSCSPP6PKG



■ PSSN 45°

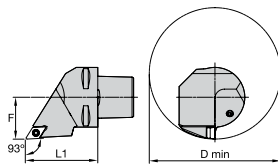
order number	catalog number	L1		L1S		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>												
6329943	PSC50PSSNR12	52	2.047	60	2.374	35	1.378	110	4.331	SN..120408/SN..432	0,80	PSCSPP4PKG
<b>left hand</b>												
6329942	PSC50PSSNL12	52	2.047	60	2.374	35	1.378	110	4.331	SN..120408/SN..432	0,80	PSCSPP4PKG

## CUTTING UNITS • S-CLAMPING



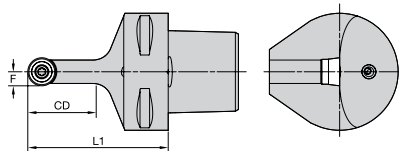
## ■ SCLC 95°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand										
6330430	PSC50SCLCR09	60	2.362	35	1.378	80	3.150	CC..09T308/CC..3252	0,84	PSCSP3SPKG
6330451	PSC50SCLCR12	60	2.362	35	1.378	110	4.331	CC..120408/CC..432	0,86	PSCSP3SPKG
left hand										
6330428	PSC50SCLCL09	60	2.362	35	1.378	80	3.150	CC..09T308/CC..3252	0,84	PSCSP3SPKG
6330429	PSC50SCLCL12	60	2.362	35	1.378	110	4.331	CC..120408/CC..432	0,86	PSCSP3SPKG



## ■ SDJC 93°

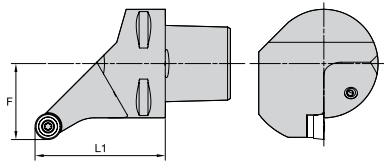
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand										
6330453	PSC50SDJCR11	60	2.362	35	1.378	110	4.331	DC..11T308/DC..3252	0,85	PSCSP2SPKG
left hand										
6330452	PSC50SDJCL11	60	2.362	35	1.378	110	4.331	DC..11T308/DC..3252	0,85	PSCSP2SPKG



## ■ SRDC

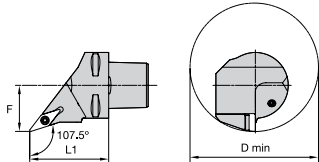
order number	catalog number	L1		F		CD		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
6334640	PSC50SRDCN08	60	2.362	4	.158	16	.630	RC..0803M0	0,67	PSCSP1SPKG
6334781	PSC50SRDCN10	60	2.362	5	.197	25	.984	RC..10T3M0	0,63	PSCSP1SPKG
6334782	PSC50SRDCN12	60	2.362	6	.236	28	1.102	RC..1204M0	0,63	PSCSP1SPKG
6334783	PSC50SRDCN16	60	2.362	8	.315	32	1.260	RC..1606M0	0,63	PSCSP1SPKG

CUTTING UNITS • S-CLAMPING



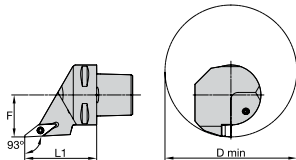
■ SRSC

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
<b>right hand</b>								
6330458	PSC50SRSCR12	60	2.362	35	1.378	RC..1204N0	0,74	PSCSP1SPKG
6330459	PSC50SRSCR16	60	2.362	35	1.378	RC..1606M0	0,76	PSCSP1SPKG
6330460	PSC50SRSCR20	60	2.362	35	1.378	RC..2006M0	0,81	PSCSP1SPKG
<b>left hand</b>								
6330454	PSC50SRSCL10	60	2.362	35	1.378	RC..10T3M0	0,73	PSCSP1SPKG
6330455	PSC50SRSCL12	60	2.362	35	1.378	RC..1204M0	0,74	PSCSP1SPKG
6330456	PSC50SRSCL16	60	2.362	35	1.378	RC..1606M0	0,76	PSCSP1SPKG
6330457	PSC50SRSCL20	60	2.362	35	1.378	RC..2006M0	0,81	PSCSP1SPKG



■ SVHB 107° 30'

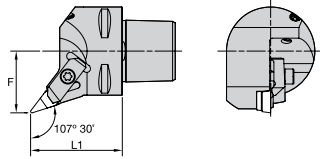
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6330472	PSC50SVHBR16	60	2.362	35	1.378	110	4.331	VB..160408/VB..332	0,76	PSCSP2SPKG
<b>left hand</b>										
6330471	PSC50SVHBL16	60	2.362	35	1.378	110	4.331	VB..160408/VB..332	0,75	PSCSP2SPKG



■ SVJB 93°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6330474	PSC50SVJBR16	60	2.362	35	1.378	110	4.331	VB..160408/VB..332	0,77	PSCSP2SPKG
<b>left hand</b>										
6330473	PSC50SVJBL16	60	2.362	35	1.378	110	4.331	VB..160408/VB..332	0,77	PSCSP2SPKG

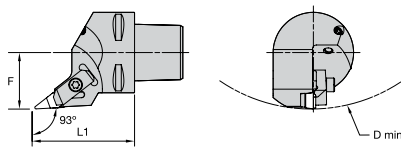
### CUTTING UNITS • TOP NOTCH™ PROFILING



■ NVHC 107° 30'

order number	catalog number	L1		F		gage insert		kg
		mm	in	mm	in			
<b>right hand</b>								
6338317	PSC50NVHCR16	52	2.047	35	1.378	VC..160408/VP..332		0,63
<b>left hand</b>								
6338314	PSC50NVHCL16	52	2.047	35	1.378	VC..160408/VP..332		0,62

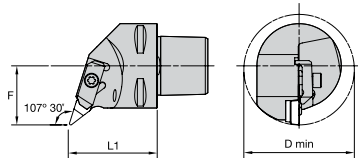
NOTE: Spare parts information can be found on kennametal.com.



■ NVJC 93°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6338320	PSC50NVJCR16	62	2.441	35	1.378	223	8.780	VC..160408/VP..332	0,67
<b>left hand</b>									
6338315	PSC50NVJCL16	62	2.441	35	1.378	223	8.780	VC..160408/VP..332	0,68

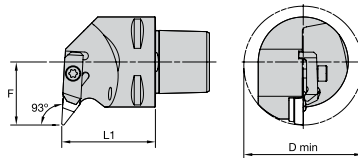
NOTE: Spare parts information can be found on kennametal.com.



■ NVQC 107° 30'

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6338316	PSC50NVQCR16	52	2.047	35	1.378	66	2.579	VC..160408/VP..332	0,64
<b>left hand</b>									
6338313	PSC50NVQCL16	52	2.047	35	1.378	66	2.598	VC..160408/VP..332	0,64

NOTE: Spare parts information can be found on kennametal.com.

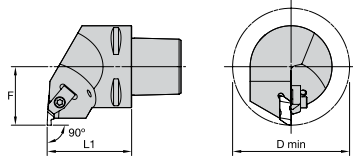


■ NVUC 93°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6338319	PSC50NVUCR16	52	2.047	35	1.378	66	2.598	VC..160408/VP..332	0,70
<b>left hand</b>									
6338318	PSC50NVUCL16	52	2.047	35	1.378	68	2.677	VC..160408/VP..332	0,71

NOTE: Spare parts information can be found on kennametal.com.

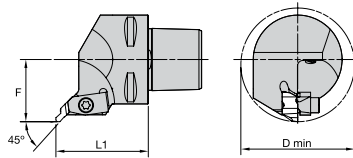
## CUTTING UNITS • TOP NOTCH™ THREADING AND GROOVING



### ■ NE 90°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6338254	PSC50NER3	52,0	2.047	35,0	1.378	62,0	2.441	NG3L	0,69
6338257	PSC50NER4	52,0	2.047	35,0	1.378	62,0	2.441	NG4L	0,69
<b>left hand</b>									
6338255	PSC50NEL3	52,0	2.047	35,0	1.378	62,0	2.441	NG3R	0,69
6338256	PSC50NEL4	52,0	2.047	35,0	1.378	62,0	2.441	NG4R	0,69

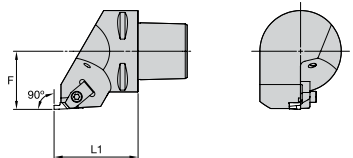
NOTE: Spare parts information can be found on kennametal.com.



### ■ NR 45°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6338312	PSC50NRR3	52,0	2.047	35,0	1.378	64,0	2.520	NU3L	0,69
<b>left hand</b>									
6338311	PSC50NRL3	52,0	2.047	35,0	1.378	64,0	2.520	NU3R	0,69

NOTE: Spare parts information can be found on kennametal.com.

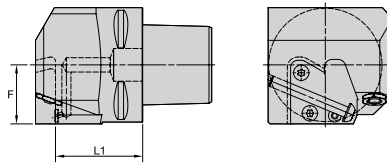


### ■ NS 90°

order number	catalog number	L1		F		gage insert	kg
		mm	in	mm	in		
<b>right hand</b>							
6338253	PSC50NSR3	52	2.047	35	1.378	NG3R	0,79
6338259	PSC50NSR4	62	2.441	35	1.378	NG4R	0,68
<b>left hand</b>							
6338258	PSC50NSL3	52	2.047	35	1.378	NG3L	0,69
6338260	PSC50NSL4	62	2.441	35	1.378	NG4L	0,69

NOTE: Spare parts information can be found on kennametal.com.

## CUTTING UNITS • BEYOND™ EVOLUTION™ • GROOVING AND CUT-OFF



### ■ KGME End Mount

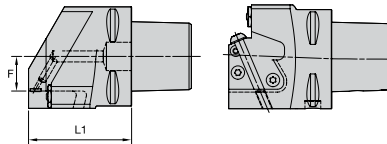
order number	catalog number	L1		F		blade size	kg
		mm	in	mm	in		
<b>right hand</b>							
6000030	PSC50KGMER50C	43,0	1.693	25,5	1.004	50	1,11
5405652	PSC50KGMER65C	55,5	2.185	22,0	.866	65	1,27
<b>left hand</b>							
6000151	PSC50KGME50C	43,0	1.693	25,5	1.004	50	1,11
5405653	PSC50KGME65C	55,5	2.185	22,0	.866	65	1,27

NOTE: Blades are ordered separately. See Kennametal Innovations Catalog 2017 A-16-05000.

Right hand holder uses left hand blades.

M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).

M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).



### ■ KGMS Side Mount

order number	catalog number	L1		F		blade size	kg
		mm	in	mm	in		
<b>right hand</b>							
5405654	PSC50KGMSR65C	49,0	1.929	25,5	1.004	65	1,39
6000152	PSC50KGMSR50C	63,5	2.500	15,0	.591	50	1,06
<b>left hand</b>							
5405655	PSC50KGMSL65C	49,0	1.929	25,5	1.004	65	1,39
6000153	PSC50KGMSL50C	63,5	2.500	15,0	.591	50	1,06

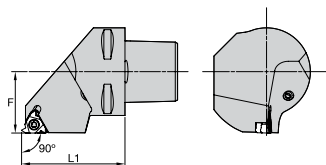
NOTE: Blades are ordered separately. See Kennametal Innovations Catalog 2017 A-16-05000.

Right hand holder uses left hand blades.

M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).

M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

## CUTTING UNITS • LAYDOWN THREADING

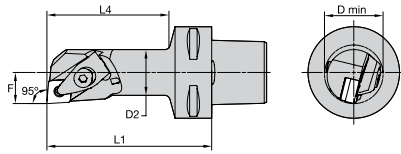


### ■ LSS 90°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
<b>right hand</b>								
6319793	PSC50LSSR16	60	2.362	35	1.378	LT16ER	0,88	PSCSPLTPKG
6319794	PSC50LSSR22	60	2.362	35	1.378	LT22ER	0,89	PSCSPLTPKG
<b>left hand</b>								
6319791	PSC50LSSL16	60	2.362	35	1.378	LT16EL	0,88	PSCSPLTPKG
6319792	PSC50LSSL22	60	2.362	35	1.378	LT22EL	0,89	PSCSPLTPKG

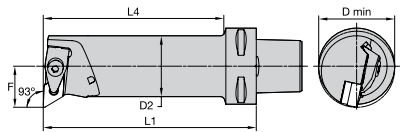


### INTERNAL CUTTING UNITS • D-CLAMPING



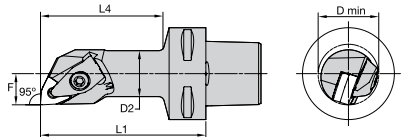
■ DCLN 95°

order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6330409	PSC50S20FDCLNR09	20,0	.787	80	3.150	56	2.205	13	.512	25	.984	CN..090308/CN..322	0,68	PSCSPD3PKG
6330410	PSC50S25GDCLNR12	25,0	.984	90	3.543	66	2.598	17	.669	32	1.260	CN..120408/CN..432	0,80	PSCSPD4PKG
<b>left hand</b>														
6330407	PSC50S20FDCLNL09	20,0	.787	80	3.150	56	2.205	13	.512	25	.984	CN..090308/CN..322	0,68	PSCSPD3PKG
6330408	PSC50S25GDCLNL12	25,0	.984	90	3.543	66	2.598	17	.669	32	1.260	CN..120408/CN..432	0,80	PSCSPD4PKG



■ DDUN 93°

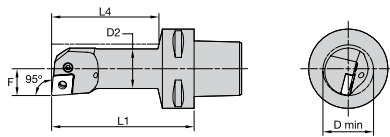
order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6330423	PSC50S25GDDUNR11	25,0	.984	90	3.543	66	2.598	17	.669	32	1.260	DN..110408/DN..332	0,95	PSCSPD3PKG
6330424	PSC50S40LDDUNR15	40,0	1.575	140	5.512	118	4.646	27	1.063	50	1.969	DN..150608/DN..442	1,64	PSCSPD4PKG
<b>left hand</b>														
6330421	PSC50S25GDDUNL11	25,0	.984	90	3.543	66	2.598	17	.669	32	1.260	DN..110408/DN..332	0,95	PSCSPD3PKG
6330422	PSC50S40LDDUNL15	40,0	1.575	140	5.512	118	4.646	27	1.063	50	1.969	DN..150608/DN..442	1,64	PSCSPD4PKG



■ DWLN 95°

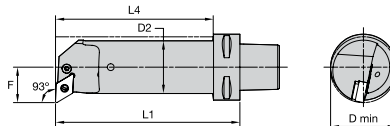
order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6330426	PSC50S25GDWLNRO8	25,0	.984	90	3.543	66	2.598	17	.669	33	1.299	WN..080408/WN..432	0,80	PSCSPD4PKG
<b>left hand</b>														
6330425	PSC50S25GDWLNLO8	25,0	.984	90	3.543	66	2.598	17	.669	33	1.299	WN..080408/WN..432	0,80	PSCSPD4PKG

## INTERNAL CUTTING UNITS • P-CLAMPING



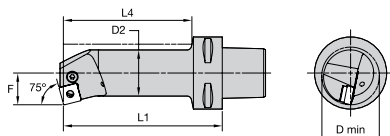
## ■ PCLN 95°

order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6320410	PSC50S20FPCLNR09	20,0	.787	80	3.150	56	2.205	13	.512	25	.984	CN..090308/CN..322	0,67	PSCSPP3NSPKG
6320531	PSC50S25GPCLNR12	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	CN..120408/CN..432	0,79	PSCSPP4NSPKG
6320532	PSC50S32JPCLNR12	32,0	1.260	110	4.331	88	3.465	22	.866	40	1.575	CN..120408/CN..432	1,05	PSCSPP4PKG
6320533	PSC50S40LPCLNR12	40,0	1.575	140	5.512	119	4.685	27	1.063	50	1.969	CN..120408/CN..432	1,60	PSCSPP4PKG
6320534	PSC50S50HPCLNR12	50,0	1.969	100	3.937	100	3.937	35	1.378	63	2.480	CN..120408/CN..432	1,57	PSCSPP4PKG
6320535	PSC50S50MPCLNR16	50,0	1.969	150	5.906	150	5.906	35	1.378	63	2.480	CN..160612/CN..543	2,37	PSCSPP5PKG
<b>left hand</b>														
6320404	PSC50S20FPCLNL09	20,0	.787	80	3.150	56	2.205	13	.512	25	.984	CN..090308/CN..322	1,34	PSCSPP3NSPKG
6320405	PSC50S25GPCLNL12	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	CN..120408/CN..432	0,79	PSCSPP4NSPKG
6320406	PSC50S32JPCLNL12	32,0	1.260	110	4.331	88	3.465	22	.866	40	1.575	CN..120408/CN..432	1,05	PSCSPP4PKG
6320407	PSC50S40LPCLNL12	40,0	1.575	140	5.512	119	4.685	27	1.063	50	1.969	CN..120408/CN..432	1,60	PSCSPP4PKG
6320408	PSC50S50HPCLNL12	50,0	1.969	100	3.937	100	3.937	35	1.378	63	2.480	CN..120408/CN..432	1,56	PSCSPP4PKG
6320409	PSC50S50MPCLNL16	50,0	1.969	150	5.906	150	5.906	35	1.378	63	2.480	CN..160612/CN..543	2,37	PSCSPP5PKG



## ■ PDUN 93°

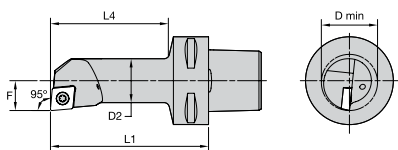
order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6320541	PSC50S25GPDUNR11	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	DN..110408/DN..332	0,78	PSCSPP3PKG
6320542	PSC50S32JPDUNR11	32,0	1.260	110	4.331	88	3.465	22	.866	40	1.575	DN..110408/DN..332	1,04	PSCSPP3PKG
6320543	PSC50S40LPDUNR15	40,0	1.575	140	5.512	119	4.685	27	1.063	50	1.969	DN..150608/DN..442	1,61	PSCSPP4PKG
6320544	PSC50S50HPDUNR15	50,0	1.969	100	3.937	100	3.937	35	1.378	63	2.480	DN..150608/DN..442	1,57	PSCSPP4PKG
6320545	PSC50S50MPDUNR15	50,0	1.969	150	5.906	150	5.906	35	1.378	63	2.480	DN..150608/DN..442	2,33	PSCSPP4PKG
<b>left hand</b>														
6320536	PSC50S25GPDUNL11	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	DN..110408/DN..332	0,78	PSCSPP3PKG
6320537	PSC50S32JPDUNL11	32,0	1.260	110	4.331	88	3.465	22	.866	40	1.575	DN..110408/DN..332	1,04	PSCSPP3PKG
6320538	PSC50S40LPDUNL15	40,0	1.575	140	5.512	119	4.685	27	1.063	50	1.969	DN..150608/DN..442	1,61	PSCSPP4PKG
6320539	PSC50S50HPDUNL15	50,0	1.969	100	3.937	100	3.937	35	1.378	63	2.480	DN..150608/DN..442	1,57	PSCSPP4PKG
6320540	PSC50S50MPDUNL15	50,0	1.969	150	5.906	150	5.906	35	1.378	63	2.480	DN..150608/DN..442	2,33	PSCSPP4PKG



## ■ PSKN 75°

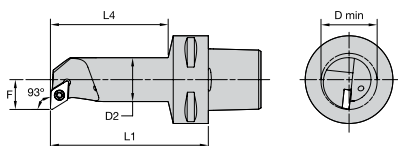
order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6320547	PSC50S25GPSKNR12	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	SN..120408/SN..432	0,79	PSCSPP4NSPKG
6320548	PSC50S32JPSKNR12	32,0	1.260	110	4.331	88	3.465	22	.870	40	1.575	SN..120408/SN..432	1,03	PSCSPP4PKG
6320549	PSC50S40LPSKNR12	40,0	1.575	140	5.512	119	4.685	27	1.067	50	1.969	SN..120408/SN..432	1,64	PSCSPP4PKG
<b>left hand</b>														
6320546	PSC50S40LPSKNL12	40,0	1.575	140	5.512	119	4.685	27	1.067	50	1.969	SN..120408/SN..432	1,64	PSCSPP4PKG

### INTERNAL CUTTING UNITS • S-CLAMPING



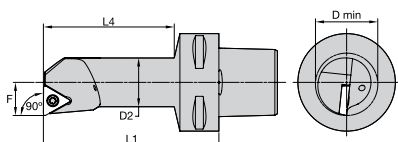
■ SCLC 95°

order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6319871	PSC50S16ESCLCR09	16,0	.630	70	2.756	46	1.811	11	.433	20	.787	CC..09T308/CC..3252	0,61	PSCSP4SPKG
6319872	PSC50S20FSCLCR09	20,0	.787	80	3.150	56	2.205	13	.512	25	.984	CC..09T308/CC..3252	0,68	PSCSP5SPKG
6319873	PSC50S25GSCLCR09	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	CC..09T308/CC..3252	0,77	PSCSP4SPKG
6319874	PSC50S25GSCLCR12	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	CC..120408/CC..432	0,78	PSCSP6SPKG
6319875	PSC50S32JSCLCR12	32,0	1.260	110	4.331	88	3.465	22	.866	40	1.575	CC..120408/CC..432	1,05	PSCSP3SPKG
6319876	PSC50S40LSCLCR12	40,0	1.575	140	5.512	119	4.685	27	1.063	50	1.969	CC..120408/CC..432	1,60	PSCSP3SPKG
6319877	PSC50S50HSCLCR12	49,7	1.957	100	3.937	80	3.150	35	1.378	63	2.480	CC..120408/CC..432	1,57	PSCSP3SPKG
<b>left hand</b>														
6319836	PSC50S16ESCLCL09	16,0	.630	70	2.756	46	1.811	11	.433	20	.787	CC..09T308/CC..3252	0,61	PSCSP4SPKG
6319837	PSC50S20FSCLCL09	20,0	.787	80	3.150	56	2.205	13	.512	25	.984	CC..09T308/CC..3252	0,68	PSCSP5SPKG
6319838	PSC50S25GSCLCL09	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	CC..09T308/CC..3252	0,77	PSCSP4SPKG
6319839	PSC50S25GSCLCL12	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	CC..120408/CC..432	0,78	PSCSP6SPKG
6319840	PSC50S40LSCLCL12	40,0	1.575	140	5.512	119	4.685	27	1.063	50	1.969	CC..120408/CC..432	1,60	PSCSP3SPKG



■ SDUC 93°

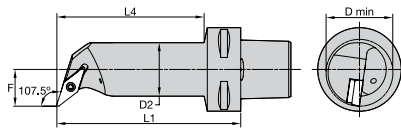
order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6319891	PSC50S25GSDUCR11	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	DC..11T308/DC..3252	0,77	PSCSP4SPKG
<b>left hand</b>														
6319879	PSC50S16ESDUCL07	16,0	.630	70	2.756	46	1.811	11	.433	20	.787	DC..070204/DC..2151	0,61	PSCSP7SPKG
6319880	PSC50S20FSDUCL11	20,0	.787	80	3.150	56	2.205	13	.512	25	.984	DC..11T308/DC..3252	0,67	PSCSP4SPKG



■ STFC 90°

order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
6330338	PSC50S16ESTFCR11	16,0	.630	70	2.756	46	1.811	11	.433	20	.787	TC..110204/TC..2151	0,61	PSCSP7SPKG
6330339	PSC50S25GSTFCR16	25,0	.984	90	3.543	67	2.638	17	.669	32	1.260	TC..16T308/TC..3252	0,78	PSCSP1SPKG
6330340	PSC50S32JSTFCR16	32,0	1.260	110	4.331	88	3.465	22	.866	40	1.575	TC..16T308/TC..3252	1,05	PSCSP1SPKG

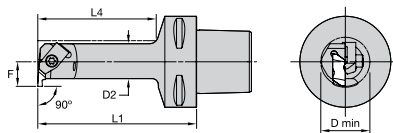
## INTERNAL CUTTING UNITS • S-CLAMPING



## ■ SVQB 107° 30'

order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6330403	PSC50S25GSVQBR16	25,0	.984	90	3.543	67	2.638	18	.709	33	1.299	VB..160408/VB..332	0,73	PSCSP2SPKG
6330404	PSC50S32JSVQBR16	32,0	1.260	110	4.331	88	3.465	22	.866	40	1.575	VB..160408/VB..332	1,02	PSCSP2SPKG
6330405	PSC50S40LSVQBR16	40,0	1.575	140	5.512	119	4.685	27	1.063	50	1.969	VB..160408/VB..332	1,54	PSCSP2SPKG
6330406	PSC50S50MSVQBR16	50,0	1.969	150	5.906	150	5.906	35	1.378	63	2.480	VB..160408/VB..332	2,24	PSCSP2SPKG
<b>left hand</b>														
6330401	PSC50S25GSVQBL16	25,0	.984	90	3.543	67	2.638	18	.709	33	1.299	VB..160408/VB..332	0,73	PSCSP2SPKG
6330402	PSC50S32JSVQBL16	32,0	1.260	110	4.331	88	3.465	22	.866	40	1.575	VB..160408/VB..332	1,02	PSCSP2SPKG

## INTERNAL CUTTING UNITS • TOP NOTCH™ THREADING AND GROOVING

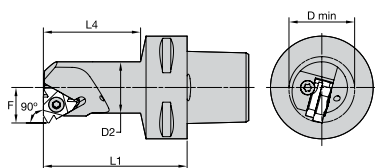


## ■ NE 90°

order number	catalog number	D2		L1		L4		F		D min		gage insert	kg
		mm	in	mm	in	mm	in	mm	in	mm	in		
<b>right hand</b>													
6338408	PSC50S12ENER2	12,0	.472	70	2.756	37	1.449	11	.433	19	.728	NG2L	0,51
6338409	PSC50S16FNER2	16,0	.630	80	3.151	51	2.008	11	.433	20	.787	NG2L	0,53
6338407	PSC50S20HNER2	20,0	.787	100	3.937	64	2.520	13	.512	24	.945	NG2L	0,66
6338406	PSC50S25JNER3	25,0	.984	110	4.331	88	3.480	17	.669	34	1.319	NG3L	1,18
6338402	PSC50S32GNER3	32,0	1.260	90	3.543	64	2.520	22	.866	39	1.516	NG3L	0,79
6338405	PSC50S32KNER3	32,0	1.260	125	4.921	89	3.504	22	.866	39	1.516	NG3L	1,18
6338403	PSC50S40JNER4	40,0	1.575	110	4.331	84	3.307	27	1.063	48	1.890	NG4L	1,18
6338401	PSC50S40LNER3	40,0	1.575	140	5.512	113	4.449	27	1.063	53	2.067	NG3L	1,48
6338417	PSC50S40LNER4	40,0	1.575	140	5.512	113	4.449	27	1.063	49	1.909	NG4L	0,79
<b>left hand</b>													
6338413	PSC50S12ENEL2	12,0	.472	70	2.756	37	1.449	11	.433	19	.728	NG2R	0,53
6338414	PSC50S16FNEL2	16,0	.630	80	3.150	51	2.008	11	.433	20	.787	NG2R	0,53
6338412	PSC50S20HNEL2	20,0	.787	100	3.937	64	2.520	13	.512	24	.945	NG2R	0,66
6338410	PSC50S25JNEL3	25,0	.984	110	4.319	88	3.480	17	.669	34	1.319	NG3R	1,18
6338404	PSC50S32GNEL3	32,0	1.260	90	3.543	64	2.520	22	.866	39	1.516	NG3R	1,18
6338415	PSC50S32KNEL3	32,0	1.260	125	4.921	89	3.504	22	.866	39	1.516	NG3R	1,18
6338411	PSC50S40JNEL4	40,0	1.575	110	4.331	84	3.307	27	1.063	49	1.909	NG4R	1,18
6338416	PSC50S40LNEL4	40,0	1.575	140	5.512	113	4.449	27	1.063	49	1.909	NG4R	1,48

NOTE: Spare parts information can be found on [kennametal.com](http://kennametal.com).

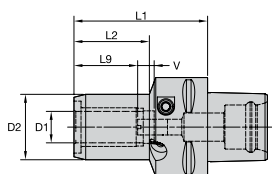
## INTERNAL CUTTING UNITS • LAYDOWN THREADING



### LSE 90°

order number	catalog number	D2	L1	L4	F	D min	gage insert	kg	spare parts package					
		mm	in	mm	in	mm	in							
<b>right hand</b>														
6319814	PSC50S16DLSER16	15,5	.610	60	2.362	36	1.417	12	.472	20	.787	LT16NR	0,59	PSCSPLTPKG
6319815	PSC50S18DLSER16	18,5	.728	60	2.362	36	1.417	14	.551	25	.984	LT16NR	0,62	PSCSPLTPKG
6319816	PSC50S18DLSER22	18,5	.728	65	2.559	42	1.654	15	.591	25	.984	LT22NR	0,63	PSCSPLTPKG
6319817	PSC50S24ELSER16	24,5	.965	70	2.756	47	1.850	17	.669	32	1.260	LT16NR	0,69	PSCSPLTPKG
6319818	PSC50S25ELSER22	25,0	.984	70	2.756	47	1.850	19	.748	32	1.260	LT22NR	0,71	PSCSPLTPKG
6319819	PSC50S32GLSER16	32,0	1.260	90	3.543	68	2.677	22	.866	40	1.575	LT16NR	0,93	PSCSPLTPKG
6319820	PSC50S32GLSER22	32,0	1.260	90	3.543	68	2.677	22	.866	40	1.575	LT22NR	0,91	PSCSPLTPKG
6319832	PSC50S40HLSER16	40,0	1.575	105	4.134	80	3.150	27	1.063	50	1.969	LT16NR	1,31	PSCSPLTPKG
6319833	PSC50S40HLSER22	40,0	1.575	105	4.134	80	3.150	27	1.063	50	1.969	LT22NR	1,29	PSCSPLTPKG
<b>left hand</b>														
6319795	PSC50S16DLSEL16	15,5	.610	60	2.362	36	1.417	12	.472	20	.787	LT16NL	0,59	PSCSPLTPKG
6319796	PSC50S18DLSEL16	18,5	.728	60	2.362	36	1.417	14	.551	25	.984	LT16NL	0,62	PSCSPLTPKG
6319797	PSC50S18DLSEL22	18,5	.728	65	2.559	42	1.654	15	.591	25	.984	LT22NL	0,63	PSCSPLTPKG
6319798	PSC50S24ELSEL16	24,5	.965	70	2.756	47	1.850	17	.669	32	1.260	LT16NL	0,69	PSCSPLTPKG
6319799	PSC50S25ELSEL22	25,0	.984	70	2.756	47	1.850	19	.748	32	1.260	LT22NL	0,71	PSCSPLTPKG
6319800	PSC50S32GLSEL16	32,0	1.260	90	3.543	68	2.677	22	.866	40	1.575	LT16NL	0,93	PSCSPLTPKG
6319811	PSC50S32GLSEL22	32,0	1.260	90	3.543	68	2.677	22	.866	40	1.575	LT22NL	0,91	PSCSPLTPKG
6319812	PSC50S40HLSEL16	40,0	1.575	105	4.134	80	3.150	27	1.063	50	1.969	LT16NL	1,31	PSCSPLTPKG
6319813	PSC50S40HLSEL22	40,0	1.575	105	4.134	80	3.150	27	1.063	50	1.969	LT22NL	1,29	PSCSPLTPKG

## HYDRAULIC CHUCKS HP LINE

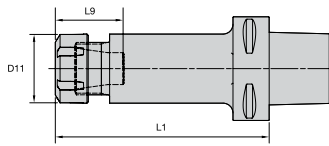


### HC • Metric

order number	catalog number	D1	D2	L1	L2	L9	V	kg
6338251	PSC50HC06065M	6	26	65	30	27	10	0,69
6338148	PSC50HC08065M	8	28	65	30	27	10	0,71
6338147	PSC50HC10070M	10	30	70	36	31	10	0,75
6338146	PSC50HC12075M	12	32	75	40	36	10	0,80
6338149	PSC50HC14075M	14	34	75	43	36	10	0,79
6338145	PSC50HC16080M	16	38	80	47	39	10	0,90
6338150	PSC50HC18080M	18	40	80	47	39	10	0,92
6338144	PSC50HC20085M	20	42	80	47	41	10	1,01

NOTE: Stop screw must be ordered separately. For technical information and spare parts, visit [kennametal.com](http://kennametal.com).

### ER COLLET CHUCKS

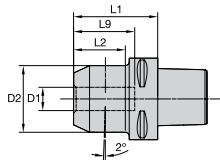


■ ER

order number	catalog number	collet size	D11		L1		L9		kg
			mm	in	mm	in	mm	in	
6320152	PSC50ER16100M	ER16	28	1.102	100	3.937	33	1.315	0,77
6320153	PSC50ER20060M	ER20	34	1.339	60	2.362	38	1.488	0,64
6320154	PSC50ER20100M	ER20	34	1.339	100	3.937	38	1.496	0,87
6320155	PSC50ER25060M	ER25	42	1.654	60	2.362	41	1.614	0,76
6320156	PSC50ER25100M	ER25	42	1.654	100	3.937	41	1.614	1,10
6320157	PSC50ER32060M	ER32	50	1.969	60	2.362	47	1.850	0,93
6320158	PSC50ER32100M	ER32	50	1.969	100	3.937	47	1.850	1,42
6320159	PSC50ER40060M	ER40	63	2.480	60	2.362	48	1.890	1,22

NOTE: Stop screw must be ordered separately. For technical information and spare parts, visit kennametal.com.

### END MILL/WHISTLE NOTCH ADAPTERS



■ EMWN • Metric

order number	catalog number	D1	D2	L1	L2	L9	kg
6330475	PSC50EMWN14065M	14	42	65	45	40	0,85
6330476	PSC50EMWN16065M	16	48	65	45	47	0,98
6330477	PSC50EMWN18065M	18	48	65	45	47	0,95
6330478	PSC50EMWN20065M	20	52	65	65	49	1,02
6330479	PSC50EMWN25080M	25	63	80	80	54	1,62

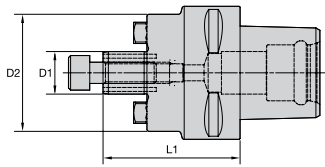
NOTE: Stop screw must be ordered separately. For technical information and spare parts, visit kennametal.com.

■ EMWN • Inch

order number	catalog number	D1	D2	L1	L2	L9	lbs
6330480	PSC50EMWN038217	.375	1.000	2.165	1.378	1.400	1.09
6330491	PSC50EMWN050236	.500	1.250	2.362	1.575	1.380	1.31
6330492	PSC50EMWN062236	.625	1.625	2.362	1.575	1.560	1.65
6330493	PSC50EMWN075236	.750	1.752	2.362	1.575	1.750	1.70
6330494	PSC50EMWN100335	1.000	2.244	3.350	3.350	2.150	3.18
6330495	PSC50EMWN125335	1.250	2.480	3.350	3.350	2.280	3.44

NOTE: Stop screw must be ordered separately. For technical information and spare parts, visit kennametal.com.

## SHELL MILL ADAPTERS



### SMC • Metric

order number	catalog number	D1	D2	L1	kg
6338975	PSC50SMC16035M	16	44	35	0,64
6338976	PSC50SMC22025M	22	49	25	0,56
6338977	PSC50SMC22150M	22	49	150	2,35
6338978	PSC50SMC27034M	27	60	34	0,86
6338979	PSC50SMC32040M	32	78	40	1,31

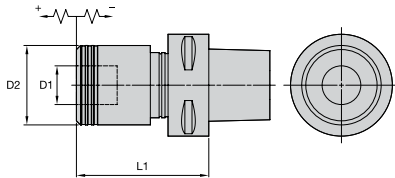
NOTE: For technical information and spare parts, visit [kennametal.com](http://kennametal.com).

### SMC • Inch

order number	catalog number	D1	D2	L1	lbs
6338980	PSC50SMC075102	.750	1.752	1.024	1.22
6338991	PSC50SMC075590	.750	1.752	5.906	4.50
6338992	PSC50SMC100134	1.000	2.752	1.339	2.01
6338993	PSC50SMC125165	1.250	2.878	1.654	2.79
6338994	PSC50SMC150192	1.500	3.811	1.917	4.58

NOTE: For technical information and spare parts, visit [kennametal.com](http://kennametal.com).

## TAP CHUCKS

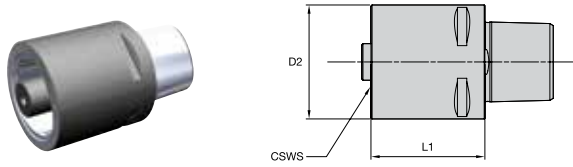


### TC Tension and Compression

order number	catalog number	D1		D2		L1		tap size		adapter size	kg
		mm	in	mm	in	mm	in	mm	in		
6332758	PSC50TC1065M	19	.748	39	1.535	65	2.559	M1 - M14	#.000 - 9/16	1	0,69

NOTE: RC tap adapters must be ordered separately. See Kennametal Innovations Master Catalog 2013 Tooling Systems A-12-02809 or NOVO™ applications.

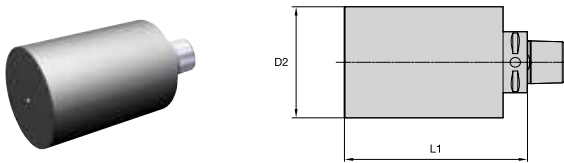
### PSC EXTENSIONS



■ S • PSC Extensions

order number	catalog number	CSWS system size	D2		L1		kg
			mm	in	mm	in	
6329838	PSC50S50050M	PSC50	50	1.969	50	1.969	0,71
6329839	PSC50S50080M	PSC50	50	1.969	80	3.150	1,13

### PSC BLANKS



■ BN Blanks

order number	catalog number	D2		L1		hardness range	kg
		mm	in	mm	in		
6335392	PSC50BN050150M	50	1.969	150	5.906	28 - 32 RC	2,42
6335393	PSC50BN091150M	91	3.583	150	5.906	28 - 32 RC	7,05





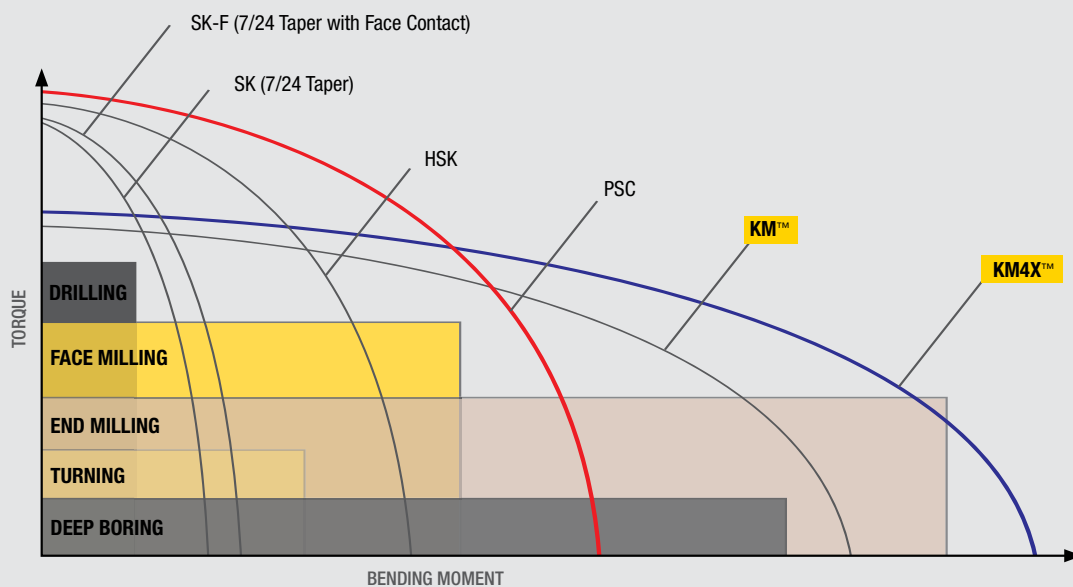
**PSC63**

**Tooling Systems**

[kennametal.com](http://kennametal.com)

# PSC63

## Static and Rotating Tools



The Polygonal Shank Coupling (PSC) is an established ISO 26623 standard connection, offering modular flexibility and utility for lathe and multi-axis machine tool applications.

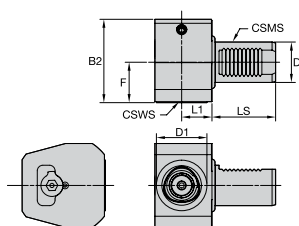
While modular KM™ and KM4X™ connections can achieve higher speeds, greater clamping forces, and bending moment stability, PSC provides an alternative option compared to traditional steep taper or HSK connections.



**ERICKSON™**

- Rotating holders include collet chucks, Shrink Fit chucks, hydraulic chucks, end mill holders, and drill holders.
- Extensions to build custom-length tools.
- Static cutting heads for a wide variety of ANSI/ISO turning inserts.
- Modular units to hold Beyond™ Evolution™ cutting blades for grooving, cut-off, face grooving, and multi-directional turning.
- Modular units to hold Top Notch™ cutting blades for grooving and threading.
- ISO 26623 compliant. Polygonal taper.
- High torque transmission.
- Compatible with all PSC63 machines and tooling.
- Through-coolant enabled.

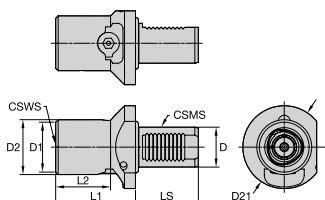
### CLAMPING UNITS • VDI ADAPTERS



#### ■ CLRR/L • VDI Right Angle

order number	catalog number	CSMS system size	CSWS system size	D		D1		F		B2		L1		LS		wrench size	kg
				mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	actuation screw	
<b>right hand</b>																	
6348976	PSC63CLRRVDI5060	VDI50	PSC63	50	1.969	63	2.480	60	2.362	110	4.331	40	1.575	78	3.071	12 mm	6,89
6348980	PSC63CLRRVDI6060	VDI60	PSC63	60	2.362	63	2.480	60	2.362	123	4.823	40	1.575	94	3.701	12 mm	9,76
<b>left hand</b>																	
6348977	PSC63CLRLVDI5060	VDI50	PSC63	50	1.969	63	2.480	60	2.362	110	4.331	40	1.575	78	3.071	12 mm	6,89
6348981	PSC63CLRLVDI6060	VDI60	PSC63	60	2.362	63	2.480	60	2.362	123	4.823	40	1.575	94	3.701	12 mm	9,76

NOTE: Spare parts information can be found on kennametal.com.

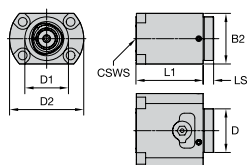


#### ■ CLAN/V • VDI Axial

order number	catalog number	CSMS system size	CSWS system size	D		D2		D1		D21		L1		L2		LS		wrench size	kg
				mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	actuation screw	
6348978	PSC63CLANVDI5095	VDI50	PSC63	50	1.969	66	2.598	63	2.480	98	3.858	95	3.740	70	2.756	78	3.071	12 mm	3,79
6348982	PSC63CLANVDI6095	VDI60	PSC63	60	2.362	66	2.598	63	2.480	123	4.843	95	3.740	70	2.756	94	3.701	12 mm	5,25

NOTE: Spare parts information can be found on kennametal.com.

### CLAMPING UNITS • FLANGE MOUNT

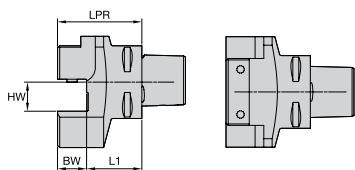


#### ■ CLNS-EF • Flange Mount, Side Access

order number	catalog number	CSWS system size	D		D1		D2		B2		L1		LS		wrench size	kg
			mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	actuation screw	
6348979	PSC63CLNSEF	PSC63	63	2.479	63	2.480	110	4.331	72	2.835	88	3.465	20	.787	12 mm	4,47

NOTE: Spare parts information can be found on kennametal.com.

### ETA SQUARE SHANK ADAPTERS



#### ETA • Metric

order number	catalog number	BW	HW	L1	LPR	kg
6341348	PSC63ETAN2020M	20	20	40	60	1,77
6341350	PSC63ETAN2525M	25	25	45	71	2,81
6341381	PSC63ETAN3225M	32	32	45	71	3,30

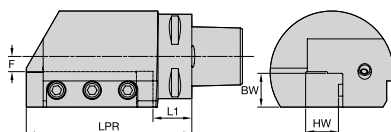
NOTE: Spare parts information can be found on kennametal.com.

#### ETA • Inch

order number	catalog number	BW	HW	L1	LPR	lbs
6341347	PSC63ETAN12	.750	.750	1.612	2.360	4.34
6341349	PSC63ETAN16	1.000	1.000	1.795	2.760	6.23

NOTE: Spare parts information can be found on kennametal.com.

### STA SQUARE SHANK ADAPTERS



#### STA • Metric

order number	catalog number	BW	F	HW	L1	LPR	kg
<b>right hand</b>							
6341387	PSC63STAR2020M	20	10	20	25	100	2,52
6341389	PSC63STAR2525M	25	13	25	28	130	3,57
<b>left hand</b>							
6341383	PSC63STAL2020M	20	10	20	25	100	2,52
6341385	PSC63STAL2525M	25	13	25	28	130	3,57

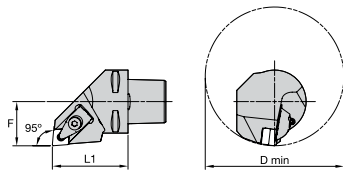
NOTE: Spare parts information can be found on kennametal.com.

#### STA • Inch

order number	catalog number	BW	F	HW	L1	LPR	lbs
<b>right hand</b>							
6341386	PSC63STAR12	.750	.350	.750	.980	3.940	6.00
6341384	PSC63STAR16	1.000	.490	1.000	1.100	5.120	8.25
<b>left hand</b>							
6341382	PSC63STAL12	.750	.350	.750	.980	3.940	6.00
6341388	PSC63STAL16	1.000	.490	1.000	1.100	5.120	8.26

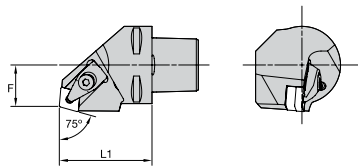
NOTE: Spare parts information can be found on kennametal.com.

CUTTING UNITS • D-CLAMPING



■ DCLN 95°

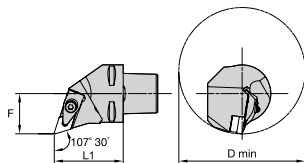
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6340001	PSC63DCLNR12	65	2.559	45	1.772	110	4.331	CN..120408/CN..432	1,60	PSCSPD4PKG
6340002	PSC63DCLNR16	65	2.559	45	1.772	125	4.921	CN..160612/CN..543	1,64	PSCSPD5PKG
6340003	PSC63DCLNR19	65	2.559	45	1.772	125	4.921	CN..190612/CN..643	1,66	PSCSPD6PKG
<b>left hand</b>										
6339686	PSC63DCLNL12	65	2.559	45	1.772	110	4.331	CN..120408/CN..432	1,60	PSCSPD4PKG
6339687	PSC63DCLNL16	65	2.559	45	1.772	125	4.921	CN..160612/CN..543	1,64	PSCSPD5PKG
6339688	PSC63DCLNL19	65	2.559	45	1.772	125	4.921	CN..190612/CN..643	1,66	PSCSPD6PKG



■ DCRN 75°



order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
<b>right hand</b>								
6340007	PSC63DCRNR12	65	2.559	35	1.378	CN..120408/CN..432	1,37	PSCSPD4PKG
6340008	PSC63DCRNR16	65	2.559	35	1.378	CN..160612/CN..543	1,66	PSCSPD5PKG
6340009	PSC63DCRNR19	65	2.559	35	1.378	CN..190612/CN..643	1,59	PSCSPD6PKG
<b>left hand</b>								
6340004	PSC63DCRNL12	65	2.559	35	1.378	CN..120408/CN..432	1,38	PSCSPD4PKG
6340005	PSC63DCRNL16	65	2.559	35	1.378	CN..160612/CN..543	1,66	PSCSPD5PKG
6340006	PSC63DCRNL19	65	2.559	35	1.378	CN..190612/CN..643	1,59	PSCSPD6PKG

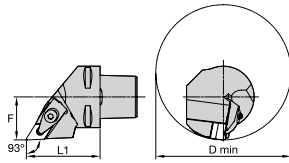


■ DDHN 107° 30'



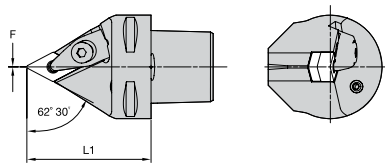
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6340077	PSC63DDHNR1504	65	2.559	45	1.772	110	4.331	DN..150408/DN..432	1,59	PSCSPD4PKG
6340076	PSC63DDHNR1506	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,59	PSCSPD4PKG
<b>left hand</b>										
6340075	PSC63DDHNL1504	65	2.559	45	1.772	110	4.331	DN..150408/DN..432	1,10	PSCSPD4PKG
6340074	PSC63DDHNL1506	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,60	PSCSPD4PKG

## CUTTING UNITS • D-CLAMPING



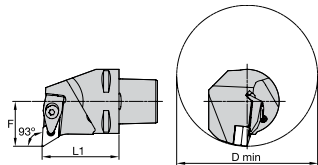
## ■ DDJN 93°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand										
6340079	PSC63DDJNR11	65	2.559	45	1.772	81	3.189	DN..110408/DN..332	1,48	PSCSPD3PKG
6340080	PSC63DDJNR1504	65	2.559	45	1.772	110	4.331	DN..150408/DN..432	1,31	PSCSPD4PKG
left hand										
6340078	PSC63DDJNL1504	65	2.559	45	1.772	110	4.331	DN..150408/DN..432	1,31	PSCSPD4PKG



## ■ DDNN 62° 30'

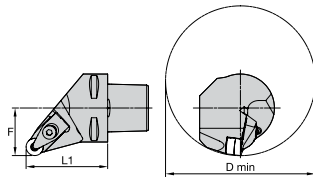
order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6340877	PSC63DDNN1504	65	2.559	0	.000	DN..150612/DN..443	1,31	PSCSPD4PKG
6340876	PSC63DDNN1506	65	2.559	0	.000	DN..150612/DN..443	1,10	PSCSPD4PKG



## ■ DDUN 93°

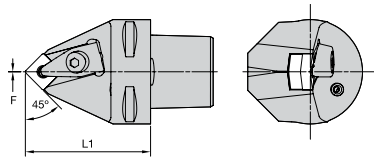
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand										
6340134	PSC63DDUNR1504	65	2.559	45	1.772	110	4.331	DN..150408/DN..432	1,31	PSCSPD4PKG
6340133	PSC63DDUNR1506	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,31	PSCSPD4PKG
left hand										
6340132	PSC63DDUNL1504	65	2.559	45	1.772	110	4.331	DN..150408/DN..432	1,31	PSCSPD4PKG
6340131	PSC63DDUNL1506	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,31	PSCSPD4PKG

CUTTING UNITS • D-CLAMPING



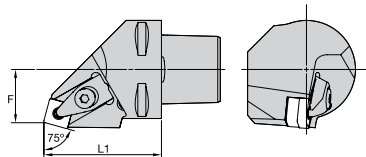
■ DRSN

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand										
6340878	PSC63DRSNR12	65	2.559	45	1.772	110	4.331	RN..120400/RN..43	1,20	PSCSPD4PKG
left hand										
6340895	PSC63DRSNL12	65	2.559	45	1.772	110	4.331	RN..120400/RN..43	1,15	PSCSPD4PKG



■ DSDN 45°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6341390	PSC63DSDNN19	70	2.756	0	.000	SN..190612/SN..643	1,49	PSCSPD6PKG

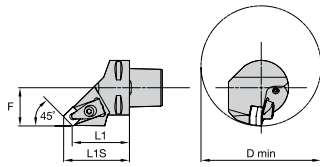


■ DSRN 75°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
right hand								
6340880	PSC63DSRNR19	65	2.559	35	1.378	SN..190612/SN..643	1,32	PSCSPD6PKG
left hand								
6340879	PSC63DSRNL19	65	2.559	35	1.378	SN..190612/SN..643	1,34	PSCSPD6PKG

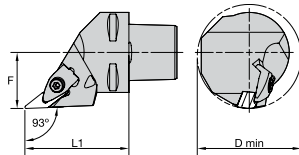


CUTTING UNITS • D-CLAMPING



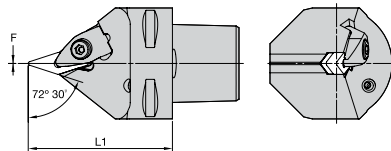
■ DSSN 45°

order number	catalog number	L1		L1S		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>												
6341411	PSC63DSSNR19	52	2.047	64	2.535	45	1.772	125	4.921	SN..190612/SN..643	1,38	PSCPD6PKG
6341412	PSC63DSSNR15	54	2.126	64	2.528	45	1.772	125	4.921	SN..150608/SN..542	1,37	PSCSPD5PKG
6341413	PSC63DSSNR12	56	2.205	64	2.532	45	1.772	110	4.331	SN..120408/SN..432	1,34	PSCSPD4PKG
<b>left hand</b>												
6340891	PSC63DSSNL19	52	2.047	64	2.535	45	1.772	125	4.921	SN..190612/SN..643	1,38	PSCSPD6PKG
6340892	PSC63DSSNL15	54	2.126	64	2.528	45	1.772	125	4.921	SN..150608/SN..543	1,37	PSCSPD5PKG
6340893	PSC63DSSNL12	56	2.205	64	2.532	45	1.772	110	4.331	SN..120408/SN..432	1,34	PSCSPD4PKG



■ DVJN 93°

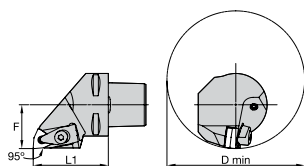
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6340894	PSC63DVJNR16	65	2.559	45	1.772	81	3.189	VN..160408/VN..332	1,34	PSCSPD3PKG
<b>left hand</b>										
6340896	PSC63DVJNL16	65	2.559	45	1.772	81	3.189	VN..160408/VN..332	1,34	PSCSPD3PKG



■ DVVN 72° 30'

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6341414	PSC63DVVNR16	65	2.559	0	.000	VN..160408/VN..332	1,25	PSCSPD3PKG

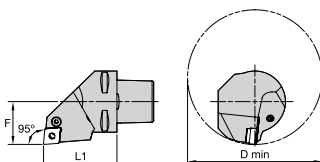
## CUTTING UNITS • D-CLAMPING



## ■ DWLN 95°

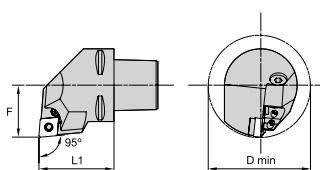
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6341416	PSC63DWLNR08	65	2.559	45	1.772	110	4.331	WN..080408/WN..432	1,66	PSCSPD4PKG
<b>left hand</b>										
6341415	PSC63DWLNL08	65	2.559	45	1.772	110	4.331	WN..080408/WN..432	1,66	PSCSPD4PKG

## CUTTING UNITS • P-CLAMPING



## ■ PCLN 95°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6340801	PSC63PCLNR12	65	2.559	45	1.772	110	4.331	CN..120408/CN..432	1,80	PSCSPP4PKG
6340802	PSC63PCLNR16	65	2.559	45	1.772	125	4.921	CN..160612/CN..543	1,76	PSCSPP5PKG
6340803	PSC63PCLNR19	65	2.559	45	1.772	125	4.921	CN..190612/CN..643	1,76	PSCSPP6PKG
<b>left hand</b>										
6340778	PSC63PCLNL12	65	2.559	45	1.772	110	4.331	CN..120408/CN..432	1,80	PSCSPP4PKG
6340779	PSC63PCLNL16	65	2.559	45	1.772	125	4.921	CN..160612/CN..543	1,76	PSCSPP5PKG
6340780	PSC63PCLNL19	65	2.559	45	1.772	125	4.921	CN..190612/CN..643	1,76	PSCSPP6PKG

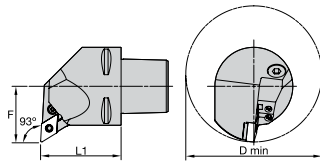


## ■ PCLN 95° HPC

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6340042	PSC63PCLNR12HPC	65	2.559	45	1.772	110	4.331	CN..120408/CN..432	1,58
6340044	PSC63PCLNR16HPC	65	2.559	45	1.772	125	4.921	CN..160612/CN..543	1,55
<b>left hand</b>									
6340043	PSC63PCLNL12HPC	65	2.559	45	1.772	110	4.331	CN..120408/CN..432	1,58
6340045	PSC63PCLNL16HPC	65	2.559	45	1.772	125	4.921	CN..160612/CN..543	1,55

NOTE: Spare parts information can be found on [kennametal.com](http://kennametal.com).

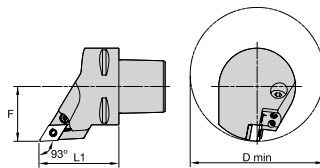
CUTTING UNITS • P-CLAMPING



■ PDUN 93° HPC

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6340048	PSC63PDUNR15HPC	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,46
<b>left hand</b>									
6340049	PSC63PDUNL15HPC	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,46

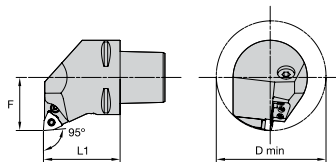
NOTE: Spare parts information can be found on kennametal.com.



■ PDJN 93° HPC

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6340046	PSC63PDJNR15HPC	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,22
<b>left hand</b>									
6340047	PSC63PDJNL15HPC	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,22

NOTE: Spare parts information can be found on kennametal.com.

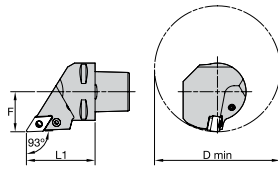


■ PWLN 95° HPC

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6340050	PSC63PWLNR08HPC	65	2.559	45	1.772	110	4.331	WN..080408/WN..432	1,58
<b>left hand</b>									
6340101	PSC63PWLNL08HPC	65	2.559	45	1.772	110	4.331	WN..080408/WN..432	1,58

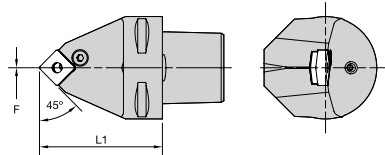
NOTE: Spare parts information can be found on kennametal.com.

## CUTTING UNITS • P-CLAMPING



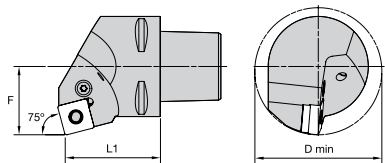
## ■ PDJN 93°

order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand 6340807	PSC63PDJNR15	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,76	PSCSPP4PKG
left hand 6340806	PSC63PDJNL15	65	2.559	45	1.772	110	4.331	DN..150608/DN..442	1,76	PSCSPP4PKG



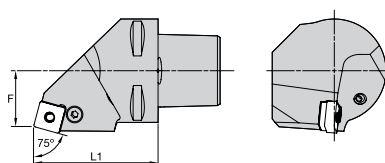
## ■ PSDN 45°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6340817	PSC63PSDNN19	65	2.559	0	.000	SN..190612/SN..643	1,40	PSCSPP6PKG



## ■ PSKN 75°

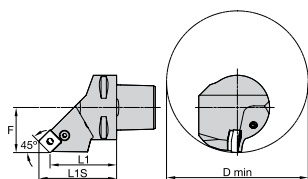
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
right hand 6340811	PSC63PSKNR19	65	2.559	45	1.772	125	4.921	SN..190612/SN..643	1,87	PSCSPP6PKG
left hand 6340809	PSC63PSKNL19	65	2.559	45	1.772	125	4.921	SN..190612/SN..643	1,87	PSCSPP6PKG



## ■ PSRN 75°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
right hand 6340813	PSC63PSRNR19	65	2.559	35	1.378	SN..190612/SN..643	1,87	PSCSPP6PKG
left hand 6340812	PSC63PSRNL19	65	2.559	35	1.378	SN..190612/SN..643	1,87	PSCSPP6PKG

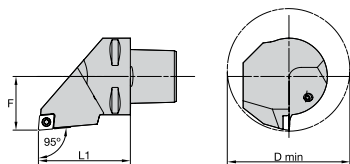
## CUTTING UNITS • P-CLAMPING



## ■ PSSN 45°

order number	catalog number	L1 mm	L1S in	F mm	D min in	gage insert	kg	spare parts package		
right hand 6340815	PSC63PSSNR19	52	2.047	64	2.535	45 1.772	125 4.921	SN..190612/SN..643	1,41	PSCSPP6PKG
left hand 6340814	PSC63PSSNL19	52	2.047	64	2.535	45 1.772	125 4.921	SN..190612/SN..643	1,41	PSCSPP6PKG

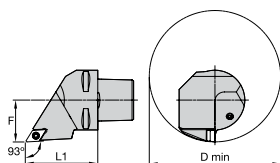
## CUTTING UNITS • S-CLAMPING



## ■ SCLC 95°

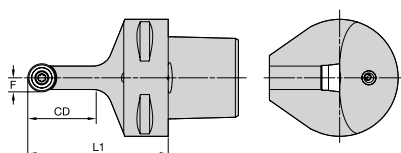
order number	catalog number	L1 mm	F mm	D min mm	gage insert	kg		
right hand 4109536	PSC63SCLCR12	65	2.559	45	1.772	90 3.543	CC..120408/CC..432	1,41
left hand 4109537	PSC63SCLCL12	65	2.559	45	1.772	90 3.543	CC..120408/CC..432	1,41

NOTE: Spare parts information can be found on kennametal.com.



## ■ SDJC 93°

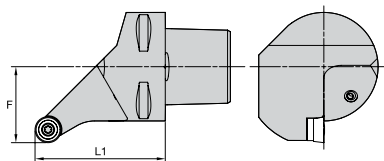
order number	catalog number	L1 mm	F mm	D min mm	gage insert	kg	spare parts package		
right hand 6341316	PSC63SDJCR11	65	2.559	45	1.772	110 4.331	DC..11T308/DC..3252	1,29	PSCSP2SPKG
left hand 6341315	PSC63SDJCL11	65	2.559	45	1.772	110 4.331	DC..11T308/DC..3252	1,28	PSCSP2SPKG



## ■ SRDC

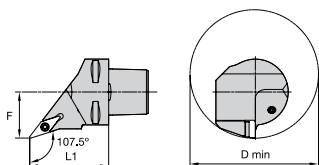
order number	catalog number	L1 mm	F mm	CD mm	gage insert	kg	spare parts package			
6341556	PSC63SRDCN10	65	2.559	5	.197	25	.984	RCMT10T3M0	1,15	PSCSP1SPKG
6341557	PSC63SRDCN12	65	2.559	6	.236	28	1.102	RCMT1204M0	1,14	PSCSP1SPKG
6341558	PSC63SRDCN16	65	2.559	8	.315	35	1.378	RCMT1606M0	1,12	PSCSP1SPKG

### CUTTING UNITS • S-CLAMPING



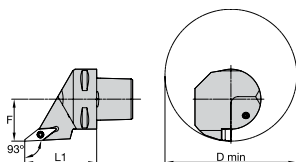
#### SRSC

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
<b>right hand</b>								
6341341	PSC63SRSCR10	65	2.559	45	1.772	RC..10T3M0	1,42	PSCSP1SPKG
6341342	PSC63SRSCR12	65	2.559	45	1.772	RC..1204M0	1,44	PSCSP1SPKG
6341343	PSC63SRSCR16	65	2.559	45	1.772	RC..1606M0	1,47	PSCSP1SPKG
6341344	PSC63SRSCR20	65	2.559	45	1.772	RC..2006M0	1,54	PSCSP1SPKG
<b>left hand</b>								
6341317	PSC63SRSCL10	65	2.559	45	1.772	RC..10T3M0	1,42	PSCSP1SPKG
6341318	PSC63SRSCL12	65	2.559	45	1.772	RC..1204M0	1,44	PSCSP1SPKG
6341319	PSC63SRSCL16	65	2.559	45	1.772	RC..1606M0	1,47	PSCSP1SPKG
6341320	PSC63SRSCL20	65	2.559	45	1.772	RC..2006M0	1,54	PSCSP1SPKG



#### SVHB 107° 30'

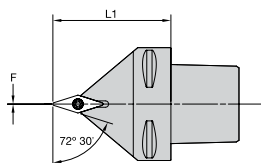
order number	catalog number	L1		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6341346	PSC63SVHBR16	65	2.559	45	1.772	110	4.331	VB..160408/VB..332	1,25	PSCSP1SPKG
<b>left hand</b>										
6341345	PSC63SVHBL16	65	2.559	45	1.772	110	4.331	VB..160408/VB..332	1,25	PSCSP1SPKG



#### SVJB 93°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
4109538	PSC63SVJBR11	65	2.559	45	1.772	180	7.087	VB..110304/VB..221	1,28
4109540	PSC63SVJBR16	65	2.559	45	1.772	215	8.465	VB..160408/VB..332	1,21
<b>left hand</b>									
4109539	PSC63SVJBL11	65	2.559	45	1.772	180	7.087	VB..110304/VB..221	1,28
4109541	PSC63SVJBL16	65	2.559	45	1.772	215	8.465	VB..160408/VB..332	1,21

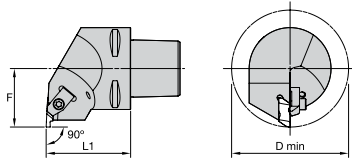
NOTE: Spare parts information can be found on kennametal.com.



#### SVB 72° 30'

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
6341559	PSC63SVBN16	65	2.559	0	.000	VB..160408/VB..332	1,25	PSCSP1SPKG

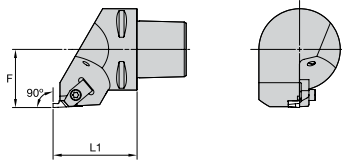
## CUTTING UNITS • TOP NOTCH™ THREADING AND GROOVING



### ■ NE 90°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
4092485	PSC63NER3	65	2.559	45	1.772	90	3.543	NG3L	1,43
4092487	PSC63NER4	65	2.559	45	1.772	90	3.543	NG4L	1,42
<b>left hand</b>									
4092486	PSC63NEL3	65	2.559	45	1.772	90	3.543	NG3R	1,43
4092488	PSC63NEL4	65	2.559	45	1.772	90	3.543	NG4R	1,42

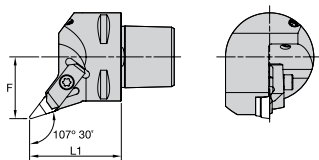
NOTE: Spare parts information can be found on kennametal.com.



### ■ NS 90°

order number	catalog number	L1		F		gage insert	kg
		mm	in	mm	in		
<b>right hand</b>							
4092489	PSC63NSR3	65	2.559	45	1.772	NG3R	1,31
4092491	PSC63NSR4	65	2.559	45	1.772	NG4R	1,30
<b>left hand</b>							
4092490	PSC63NSL3	65	2.559	45	1.772	NG3L	1,31
4092492	PSC63NSL4	65	2.559	45	1.772	NG4L	1,30

NOTE: Spare parts information can be found on kennametal.com.

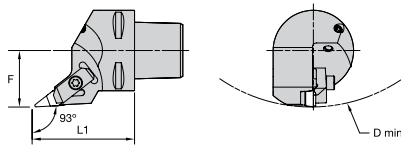


### ■ NVHC 107° 30'

order number	catalog number	L1		F		gage insert	kg
		mm	in	mm	in		
<b>right hand</b>							
6348718	PSC63NVHCR16	60	2.362	43	1.693	VC..160408/VP..332	1,15
<b>left hand</b>							
6348715	PSC63NVHCL16	60	2.362	43	1.693	VC..160408/VP..332	1,15

NOTE: Spare parts information can be found on kennametal.com.

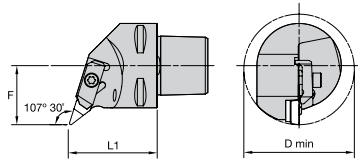
CUTTING UNITS • TOP NOTCH™ PROFILING



■ NVJC 93°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6348911	PSC63NVJCR16	60	2.362	43	1.693	510	8.268	VC..160408/VP..332	1,02
<b>left hand</b>									
6348716	PSC63NVJCL16	60	2.362	43	1.693	510	8.268	VC..160408/VP..332	1,02

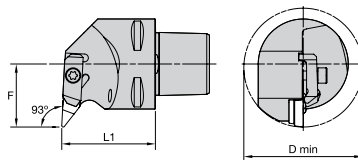
NOTE: Spare parts information can be found on kennametal.com.



■ NVQC 107° 30'

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6348717	PSC63NVQCR16	60	2.362	43	1.693	75	2.953	VC..160408/VP..332	1,19
<b>left hand</b>									
6348714	PSC63NVQCL16	60	2.362	43	1.693	75	2.953	VC..160408/VP..332	1,19

NOTE: Spare parts information can be found on kennametal.com.



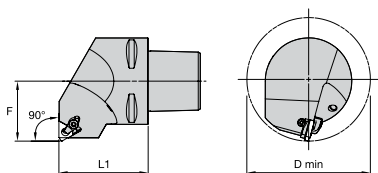
■ NVUC 93°

order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
6348720	PSC63NVUCR16	60	2.362	43	1.693	75	2.953	VC..160408/VP..332	1,38
<b>left hand</b>									
6348719	PSC63NVUCL16	60	2.362	43	1.693	75	2.953	VC..160408/VP..332	1,38

NOTE: Spare parts information can be found on kennametal.com.

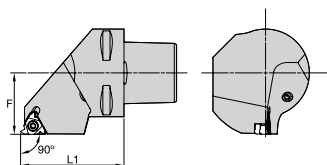


### CUTTING UNITS • LAYDOWN THREADING



■ LSE 90°

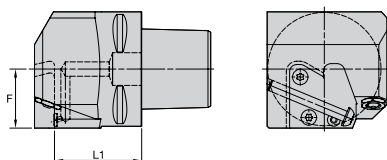
order number	catalog number	L1		F		D min		gage insert	kg
		mm	in	mm	in	mm	in		
<b>right hand</b>									
4100715	PSC63LSER16N	65	2.559	45	1.772	90	3.543	LT16NR	1,50
<b>left hand</b>									
4100716	PSC63LSEL16N	65	2.559	45	1.772	90	3.543	LT16NL	1,50



■ LSS 90°

order number	catalog number	L1		F		gage insert	kg	spare parts package
		mm	in	mm	in			
<b>right hand</b>								
6341537	PSC63LSSR16	65	2.559	45	1.772	LT16ER	1,81	PSCSPLTPKG
6341538	PSC63LSSR22	65	2.559	45	1.772	LT22ER	1,76	PSCSPLTPKG
<b>left hand</b>								
4100720	PSC63LSSL16	65	2.559	45	1.772	LT16EL	1,50	—
6341536	PSC63LSSL22	65	2.559	45	1.772	LT22EL	1,76	PSCSPLTPKG

### CUTTING UNITS • BEYOND™ EVOLUTION™ • GROOVING AND CUT-OFF

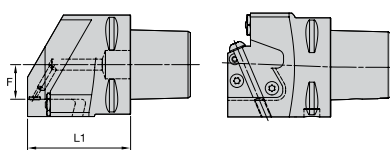


■ KGME End Mount

order number	catalog number	L1		F		blade size	kg
		mm	in	mm	in		
<b>right hand</b>							
6000159	PSC63KGMER50C	48,0	1.89	32,5	1.28	50	1,73
6000462	PSC63KGMER65C	49,0	1.93	32,5	1.28	65	1,78
<b>left hand</b>							
6000160	PSC63KGMEL50C	48,0	1.89	32,5	1.28	50	1,73
6000463	PSC63KGMEL65C	49,0	1.93	32,5	1.28	65	1,78

NOTE: Spare parts information can be found on [kennametal.com](http://kennametal.com).  
 Right hand holder uses right hand blades.  
 M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).  
 M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

## CUTTING UNITS • BEYOND™ EVOLUTION™ • GROOVING AND CUT-OFF

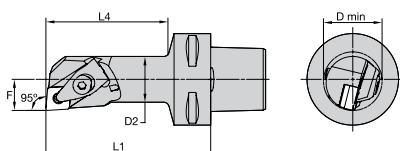


### ■ KGMS Side Mount

order number	catalog number	L1		F		blade size	kg
		mm	in	mm	in		
<b>right hand</b>							
6000211	PSC63KGMSR50C	65,5	2.58	22,0	.87	50	1,58
6000464	PSC63KGMSR65C	60,5	2.38	21,0	.83	65	1,71
<b>left hand</b>							
6000213	PSC63KGMSL50C	65,5	2.58	22,0	.87	50	1,58
6000465	PSC63KGMSL65C	60,5	2.38	21,0	.83	65	1,71

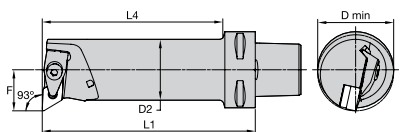
NOTE: Spare parts information can be found on kennametal.com.  
 Right hand holder uses right hand blades.  
 M50 blade and clamp screw torque equals 71–88 in. lbs. (8–10 Nm).  
 M65 blade and clamp screw torque equals 159–177 in. lbs. (18–20 Nm).

## INTERNAL CUTTING UNITS • D-CLAMPING



### ■ DCLN 95°

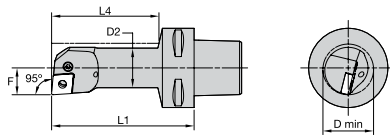
order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6339689	PSC63S25HDCLNR12	25,0	.984	100	3.937	72	2.835	17	.669	32	1.260	CN..120408/CN..432	1,29	PSCSPD4PKG
6339690	PSC63S40LDCLNR16	40,0	1.575	140	5.512	114	4.488	27	1.063	50	1.969	CN..160612/CN..543	2,07	PSCSPD5PKG
<b>left hand</b>														
6339684	PSC63S25HDCLNL12	25,0	.984	100	3.937	72	2.835	17	.669	32	1.260	CN..120408/CN..432	1,29	PSCSPD4PKG
6339685	PSC63S40LDCLNL16	40,0	1.575	140	5.512	114	4.488	27	1.063	50	1.969	CN..160612/CN..543	2,07	PSCSPD5PKG



### ■ DDUN 93°

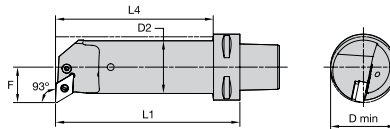
order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6341450	PSC63S40LDDUNR1506	40,0	1.575	140	5.512	114	4.488	27	1.063	50	1.969	DN..150608/DN..442	1,70	PSCSPD4PKG
<b>left hand</b>														
6341449	PSC63S40LDDUNL1506	40,0	1.575	140	5.512	114	4.488	27	1.063	50	1.969	DN..150608/DN..442	1,70	PSCSPD4PKG

## INTERNAL CUTTING UNITS • P-CLAMPING



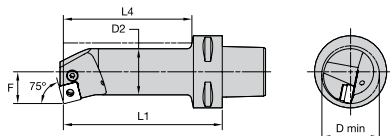
## ■ PCLN 95°

order number	catalog number	D2	L1	L4	F	D min	gage insert	kg	spare parts package					
		mm	in	mm	in	mm	in	mm	in					
<b>right hand</b>														
6342951	PSC63S25HPCLNR12	25,0	.984	100	3.937	74	2.913	17	.669	32	1.260	CN..120408/CN..432	1,27	PSCSPP4NSPKG
6342952	PSC63S32JPCLNR12	32,0	1.260	110	4.331	84	3.307	22	.866	40	1.575	CN..120408/CN..432	1,51	PSCSPP4PKG
6342953	PSC63S40LPCLNR16	40,0	1.575	140	5.512	115	4.528	27	1.063	50	1.969	CN..160612/CN..543	1,70	PSCSPP5PKG
6342954	PSC63S50XPCLNR16	50,0	1.969	175	6.890	152	5.984	35	1.378	63	2.480	CN..160612/CN..543	2,70	PSCSPP5PKG
<b>left hand</b>														
6342947	PSC63S25HPCLNL12	25,0	.984	100	3.937	74	2.913	17	.669	32	1.260	CN..120408/CN..432	1,27	PSCSPP4NSPKG
6342948	PSC63S32JPCLNL12	32,0	1.260	110	4.331	84	3.307	22	.866	40	1.575	CN..120408/CN..432	1,51	PSCSPP4PKG
6342949	PSC63S40LPCLNL16	40,0	1.575	140	5.512	115	4.528	27	1.063	50	1.969	CN..160612/CN..543	1,70	PSCSPP5PKG
6342950	PSC63S50XPCLNL16	50,0	1.969	175	6.890	152	5.984	35	1.378	63	2.480	CN..160612/CN..543	2,70	PSCSPP5PKG



## ■ PDUN 93°

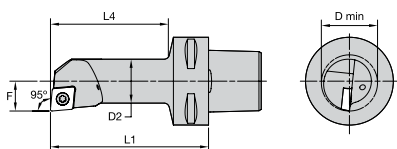
order number	catalog number	D2	L1	L4	F	D min	gage insert	kg	spare parts package					
		mm	in	mm	in	mm	in	mm	in					
<b>right hand</b>														
6342959	PSC63S25HPDUNR11	25,0	.984	100	3.937	74	2.913	17	.669	32	1.260	DN..110408/DN..332	1,26	PSCSPP3PKG
6342960	PSC63S32JPDUNR15	32,0	1.260	110	4.331	84	3.307	22	.866	40	1.575	DN..150608/DN..442	1,00	PSCSPP4PKG
6342961	PSC63S40LPDUNR15	40,0	1.575	140	5.512	115	4.528	27	1.063	50	1.969	DN..150608/DN..442	1,00	PSCSPP4PKG
6342962	PSC63S50XPDUNR15	50,0	1.969	175	6.890	152	5.984	35	1.378	63	2.480	DN..150608/DN..442	2,70	PSCSPP4PKG
<b>left hand</b>														
6342955	PSC63S25HPDUNL11	25,0	.984	100	3.937	74	2.913	17	.669	32	1.260	DN..110408/DN..332	1,26	PSCSPP3PKG
6342956	PSC63S32JPDUNL15	32,0	1.260	110	4.331	84	3.307	22	.866	40	1.575	DN..150608/DN..442	1,00	PSCSPP4PKG
6342957	PSC63S40LPDUNL15	40,0	1.575	140	5.512	115	4.528	27	1.063	50	1.969	DN..150608/DN..442	1,00	PSCSPP4PKG
6342958	PSC63S50XPDUNL15	50,0	1.969	175	6.890	152	5.984	35	1.378	63	2.480	DN..150608/DN..442	2,70	PSCSPP4PKG



## ■ PSKN 75°

order number	catalog number	D2	L1	L4	F	D min	gage insert	kg	spare parts package					
		mm	in	mm	in	mm	in	mm	in					
<b>right hand</b>														
6342964	PSC63S32JPSKNR12	32,0	1.260	110	4.331	84	3.307	22	.866	40	1.575	SN..120408/SN..432	1,20	PSCSPP4PKG
<b>left hand</b>														
6342965	PSC63S32JPSKNL12	32,0	1.260	110	4.331	84	3.307	22	.866	40	1.575	SN..120408/SN..432	1,20	PSCSPP4PKG

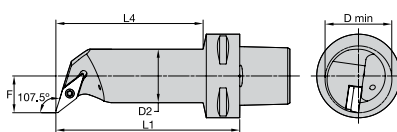
## INTERNAL CUTTING UNITS • S-CLAMPING



## ■ SCLC 95°

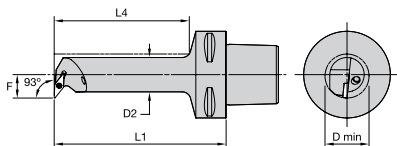
order number	catalog number	D2	L1	L4	F	D min	gage insert		kg				
		mm	in	mm	in	mm	in						
<b>right hand</b>													
4103000	PSC63S32GSCLCR12	32,0	1.260	90	3.543	64	2.524	22	.866	40	1.575	CC..120408/CC.432	1,14
4103002	PSC63S40LSCLCR12	40,0	1.575	140	5.512	115	4.531	27	1.063	50	1.969	CC..120408/CC.432	1,81
<b>left hand</b>													
4103001	PSC63S32GSCLCL12	32,0	1.260	90	3.543	64	2.524	22	.866	40	1.575	CC..120408/CC.432	1,14
4103003	PSC63S40LSCLCL12	40,0	1.575	140	5.512	115	4.531	27	1.063	50	1.969	CC..120408/CC.432	1,81

NOTE: Spare parts information can be found on kennametal.com.



## ■ SVQB 107° 30'

order number	catalog number	D2	L1	L4	F	D min	gage insert		kg	spare parts package				
		mm	in	mm	in	mm	in							
<b>right hand</b>														
6341447	PSC63S32XSVQBR16	32,0	1.260	120	4.724	94	3.701	22	.866	40	1.575	VB..160408/VB..332	1,51	PSCSP1SPKG
<b>left hand</b>														
6341443	PSC63S32XSVQBL16	32,0	1.260	120	4.724	94	3.701	22	.866	40	1.575	VB..160408/VB..332	1,51	PSCSP1SPKG
6341444	PSC63S40XSVQBL16	40,0	1.575	145	5.709	120	4.724	27	1.063	50	1.969	VB..160408/VB..332	2,04	PSCSP1SPKG
6341445	PSC63S50XSVQBL16	50,0	1.969	175	6.890	152	5.984	35	1.378	63	2.480	VB..160408/VB..332	3,05	PSCSP1SPKG

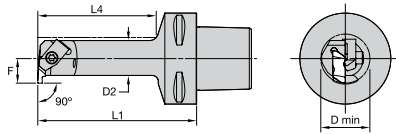


## ■ SVUB 93°

order number	catalog number	D2	L1	L4	F	D min	gage insert		kg				
		mm	in	mm	in	mm	in						
<b>right hand</b>													
4103004	PSC63S25KSVUBR11	25	.984	125	4.921	98	3.865	17	.669	32	1.260	VB..110304/VB..221	1,13
4103006	PSC63S32LSVUBR11	32	1.260	140	5.512	114	4.493	22	.866	40	1.575	VB..110304/VB..221	1,44
<b>left hand</b>													
4103005	PSC63S25KSVUBL11	25	.984	125	4.921	98	3.865	17	.669	32	1.260	VB..110304/VB..221	1,13
4103007	PSC63S32LSVUBL11	32	1.260	140	5.512	114	4.493	22	.866	40	1.575	VB..110304/VB..221	1,44

NOTE: Spare parts information can be found on kennametal.com.

## INTERNAL CUTTING UNITS • TOP NOTCH™ THREADING AND GROOVING

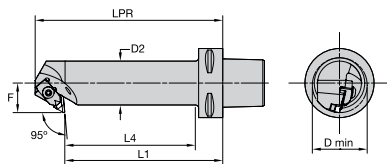


### ■ NE 90°

order number	catalog number	D2	L1	L4	F	D min	gage insert	kg		
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6348917	PSC63S12ENER2	12,0	.472	70	2.756	35	1.370	11 .433 19 .748	NG2L	0,87
6348918	PSC63S16FNER2	16,0	.630	80	3.150	49	1.924	11 .433 20 .787	NG2L	0,86
6348916	PSC63S20HNER2	20,0	.787	100	3.937	64	2.512	13 .512 24 .945	NG2L	1,01
4096060	PSC63S25JNER3	25,0	.984	110	4.331	83	3.279	17 .669 34 1.339	NG3L	1,10
6348913	PSC63S32GNER3	32,0	1.260	90	3.543	62	2.441	22 .866 39 1.516	NG3L	1,11
4096062	PSC63S32KNER3	32,0	1.260	125	4.921	99	3.910	22 .866 40 1.575	NG3L	1,34
6348914	PSC63S40JNER4	40,0	1.575	110	4.331	80	3.150	27 1.063 48 1.890	NG4L	1,50
6348912	PSC63S40LNER3	40,0	1.575	140	5.512	106	4.173	27 1.063 48 1.890	NG3L	1,84
6348945	PSC63S40LNER4	40,0	1.575	140	5.512	111	4.370	27 1.063 48 1.890	NG4L	1,79
<b>left hand</b>										
6348941	PSC63S12ENEL2	12,0	.472	70	2.756	35	1.370	11 .433 19 .748	NG2R	0,87
6348942	PSC63S16FNEL2	16,0	.630	80	3.150	49	1.923	11 .433 20 .787	NG2R	0,86
6348920	PSC63S20HNEL2	20,0	.787	100	3.937	64	2.512	13 .512 25 .965	NG2R	1,01
4096061	PSC63S25JNEL3	25,0	.984	110	4.331	83	3.279	17 .669 34 1.339	NG3R	1,10
6348915	PSC63S32GNEL3	32,0	1.260	90	3.543	62	2.441	22 .866 39 1.516	NG3R	1,11
4096073	PSC63S32KNEL3	32,0	1.260	125	4.921	99	3.910	22 .866 40 1.575	NG3R	1,34
6348919	PSC63S40JNEL4	40,0	1.575	110	4.331	80	3.161	27 1.063 49 1.909	NG4R	1,50
6348943	PSC63S40LNEL3	40,0	1.575	140	5.512	106	4.158	27 1.063 49 1.909	NG3R	1,84
6348944	PSC63S40LNEL4	40,0	1.575	140	5.512	111	4.371	27 1.063 49 1.909	NG4R	1,78

NOTE: Spare parts information can be found on kennametal.com.

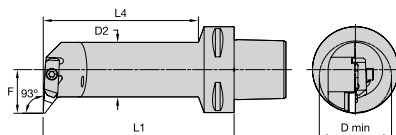
## INTERNAL CUTTING UNITS • TOP NOTCH PROFILING



### ■ NKXN 95°

order number	catalog number	D2	L1	L4	LPR	F	D min	gage insert	kg	
		mm	in	mm	in	mm	in	mm	in	
<b>right hand</b>										
6348948	PSC63S40LNKXNR15	40,0	1.575	140	5.512	110	4.339	169 6.669 27 1.063 50 1.969	KNGX150408R20/NPR132F	1,49
<b>left hand</b>										
6348947	PSC63S40LNKXNL15	40,0	1.575	140	5.512	110	4.339	169 6.669 27 1.063 50 1.969	KNGX150408L20/NPL132F	1,49

NOTE: Spare parts information can be found on kennametal.com.

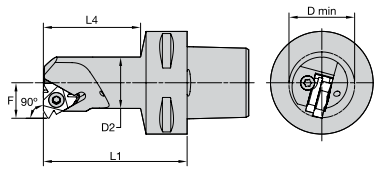


### ■ NVUC 93°

order number	catalog number	D2	L1	L4	F	D min	gage insert	kg		
		mm	in	mm	in	mm	in			
<b>right hand</b>										
6348946	PSC63S40LNVUCR16	40,0	1.575	140	5.512	113	4.449	32 1.260 53 2.087	VC..160408/VP..332	1,76
<b>left hand</b>										
6348949	PSC63S40LNVUCL16	40,0	1.575	140	5.512	113	4.449	32 1.260 53 2.087	VC..160408/VP..332	1,76

NOTE: Spare parts information can be found on kennametal.com.

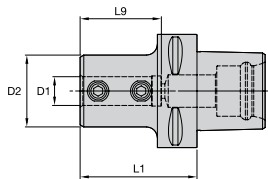
### INTERNAL CUTTING UNITS • LAYDOWN THREADING



■ LSE 90°

order number	catalog number	D2		L1		L4		F		D min		gage insert	kg	spare parts package
		mm	in	mm	in	mm	in	mm	in	mm	in			
<b>right hand</b>														
6341528	PSC63S18ELSER16	18,5	.728	70	2.756	42	1.654	14	.551	25	.984	LT16NR	1,11	PSCSPLTPKG
6341529	PSC63S25XLSER16	24,5	.965	75	2.953	48	1.890	17	.669	32	1.260	LT16NR	1,19	PSCSPLTPKG
6341530	PSC63S32GLSER22	31,5	1.240	90	3.543	64	2.520	22	.866	40	1.575	LT22NR	1,34	PSCSPLTPKG
6341531	PSC63S32GLSER16	32,0	1.260	90	3.543	64	2.520	22	.866	40	1.575	LT16NR	1,36	PSCSPLTPKG
6341533	PSC63S40XLSER16	40,0	1.575	105	4.134	80	3.150	27	1.063	50	1.969	LT16NR	1,75	PSCSPLTPKG
6341534	PSC63S40XLSER22	40,0	1.575	105	4.134	80	3.150	27	1.063	50	1.969	LT22NR	1,73	PSCSPLTPKG
<b>left hand</b>														
6341523	PSC63S18ELSEL16	18,5	.728	70	2.756	42	1.654	14	.551	25	.984	LT16NL	1,11	PSCSPLTPKG
6341524	PSC63S25XLSEL16	24,5	.965	75	2.953	48	1.890	17	.669	32	1.260	LT16NL	1,19	PSCSPLTPKG
6341532	PSC63S32GLSEL22	31,5	1.240	90	3.543	64	2.520	22	.866	40	1.575	LT22NL	1,19	PSCSPLTPKG
6341525	PSC63S32GLSEL16	32,0	1.260	90	3.543	64	2.520	22	.866	40	1.575	LT16NL	1,36	PSCSPLTPKG
6341526	PSC63S40XLSEL16	40,0	1.575	105	4.134	80	3.150	27	1.063	50	1.969	LT16NL	1,75	PSCSPLTPKG
6341527	PSC63S40XLSEL22	40,0	1.575	105	4.134	80	3.150	27	1.063	50	1.969	LT22NL	1,73	PSCSPLTPKG

### BORING BAR ADAPTERS

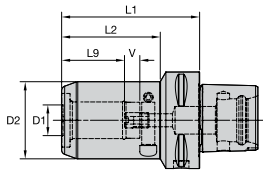


■ BAI Boring Bar Adapter Internal Coolant Only • Metric

order number	catalog number	D1	D2	L1	L9	kg
4099179	PSC63BAI16065M	16	40	65	45	1,10
4099180	PSC63BAI20070M	20	40	70	50	1,09
4099181	PSC63BAI25070M	25	50	70	50	1,29
4099182	PSC63BAI32075M	32	63	75	55	1,68

NOTE: For technical information and spare parts, visit [kennametal.com](http://kennametal.com).

## HYDROFORCE™ HYDRAULIC CHUCKS



### ■ HCTHT • Metric

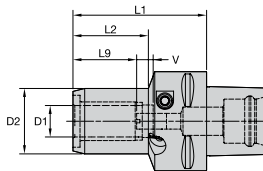
order number	catalog number	D1	D2	L1	L2	L9	V	kg
6048239	PSC63HCTHT20090M	20	50	90	64	41	10	1,64
6048251	PSC63HCTHT32095M	32	80	95	95	51	10	3,08

NOTE: For technical information and spare parts, visit kennametal.com.

### ■ HCTHT • Inch

order number	catalog number	D1	D2	L1	L2	L9	V	lbs
6048240	PSC63HCTHT075350	.750	1.980	3.500	2.490	1.614	.394	3.61
6048252	PSC63HCTHT125375	1.250	3.150	3.750	3.750	2.008	.394	6.83

NOTE: For technical information and spare parts, visit kennametal.com.

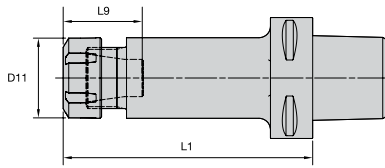


### ■ HC • Metric

order number	catalog number	D1	D2	L1	L2	L9	V	kg
4092131	PSC63HC06070M	6	26	70	33	27	10	1,15
4113745	PSC63HC08070M	8	28	70	33	27	10	1,17
4113746	PSC63HC10075M	10	30	75	36	31	10	1,24
4113747	PSC63HC12080M	12	32	80	41	36	10	1,28
4113748	PSC63HC14080M	14	34	80	43	36	10	1,27
4113749	PSC63HC16080M	16	38	80	48	39	10	1,26
4113750	PSC63HC18080M	18	40	80	47	39	10	1,29
4113751	PSC63HC20085M	20	42	85	48	41	10	1,41
4113752	PSC63HC25095M	25	50	95	51	47	10	1,74
4113803	PSC63HC32100M	32	60	100	59	51	10	2,02

NOTE: For technical information and spare parts, visit kennametal.com.

## ER COLLET CHUCKS

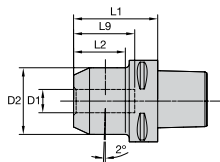


■ ER

order number	catalog number	collet size	D11		L1		L9		kg
			mm	in	mm	in	mm	in	
4098567	PSC63ER25060M	ER25	42	1.654	60	2.362	41	1.622	0,86
6341539	PSC63ER25100M	ER25	42	1.654	100	3.937	41	1.614	1,36
4098569	PSC63ER32060M	ER32	50	1.969	60	2.362	47	1.862	0,99
6341540	PSC63ER32100M	ER32	50	1.969	100	3.937	47	1.850	1,72
6341551	PSC63ER40070M	ER40	63	2.480	70	2.756	53	2.087	1,62
6341552	PSC63ER40120M	ER40	63	2.480	120	4.724	53	2.087	2,62

NOTE: Stop screw ordered separately.  
For technical information and spare parts, visit [kennametal.com](http://kennametal.com).

## END MILL/WHISTLE NOTCH ADAPTERS



■ EMWN • Metric

order number	catalog number	D1	D2	L1	L2	L9	kg
6350034	PSC63EMWN06080M	6	25	80	58	38	0,91
6350035	PSC63EMWN08080M	8	28	80	58	38	0,96
6350036	PSC63EMWN10080M	10	35	80	58	45	1,10
6350037	PSC63EMWN12080M	12	42	80	58	50	1,28
6341491	PSC63EMWN14080M	14	44	80	58	50	1,26
6350038	PSC63EMWN16080M	16	48	80	58	53	1,43
6341492	PSC63EMWN18080M	18	50	80	58	53	1,40
6350039	PSC63EMWN20080M	20	52	80	58	55	1,51
6350040	PSC63EMWN25090M	25	65	90	90	60	2,08
6350371	PSC63EMWN32090M	32	72	90	90	65	1,89
6341493	PSC63EMWN40095M	40	90	95	95	74	1,68

NOTE: For technical information and spare parts, visit [kennametal.com](http://kennametal.com).

■ EMWN • Inch

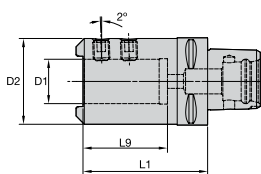
order number	catalog number	D1	D2	L1	L2	L9	lbs
6341494	PSC63EMWN038237	.375	1.000	2.370	1.500	2.010	1.84
6341495	PSC63EMWN050237	.500	1.250	2.370	1.500	2.010	1.98
6341496	PSC63EMWN063256	.625	1.625	2.560	1.690	2.200	2.38
6341497	PSC63EMWN075256	.750	1.750	2.560	1.690	2.090	2.47
6341498	PSC63EMWN088315	.875	1.970	3.150	2.280	2.050	3.09
6341499	PSC63EMWN100335	1.000	2.244	3.350	2.480	2.380	3.69
6341500	PSC63EMWN125335	1.250	2.480	3.350	3.350	2.480	3.78
6341521	PSC63EMWN150354	1.500	2.760	3.550	3.550	2.680	4.66

NOTE: For technical information and spare parts, visit [kennametal.com](http://kennametal.com).





## WHISTLE NOTCH ADAPTER WITH DRIVE

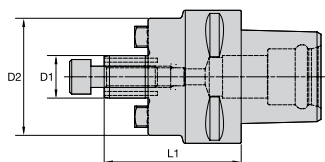


■ **WD • With Drive**

order number	catalog number	D1		L9		D2		L1		kg
		mm	in	mm	in	mm	in	mm	in	
4098571	PSC63WD32090M	32	1.260	61	2.402	62	2.435	90,0	3.543	1,98

NOTE: For technical information and spare parts, visit kennametal.com.

## SHELL MILL ADAPTERS



■ **SMC • Metric**

order number	catalog number	D1	D2	L1	kg
4091450	PSC63SMC22025M	22	63	25	1
4091451	PSC63SMC27025M	27	63	25	1

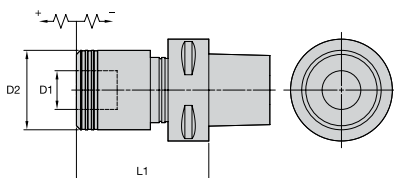
NOTE: For technical information and spare parts, visit kennametal.com.

■ **SMC • Inch**

order number	catalog number	D1	D2	L1	lbs
6348950	PSC63SMC075118	.750	2.480	1.181	2.20
6348971	PSC63SMC075480	.750	1.752	4.803	4.44
6348972	PSC63SMC075756	.750	1.752	7.559	6.25
6348973	PSC63SMC100118	1.000	2.752	1.181	2.38
6348974	PSC63SMC125157	1.250	2.878	1.575	3.35
6348975	PSC63SMC150197	1.500	3.811	1.969	5.31

NOTE: For technical information and spare parts, visit kennametal.com.

## TAP CHUCKS

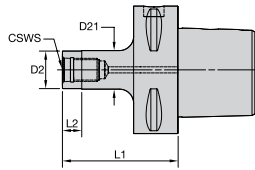


■ **TC Tension and Compression**

order number	catalog number	D1		D2		L1		adapter size	kg
		mm	in	mm	in	mm	in		
6341553	PSC63TC1069M	19	.748	39	1.535	69	2.717	1	0,97
6341554	PSC63TC2095M	31	1.221	53	2.087	95	3.740	2	1,71
6341555	PSC63TC3140M	48	1.890	73	2.874	140	5.512	3	3,55

NOTE: RC tap adapters must be ordered separately. See Kennametal Innovations Master Catalog 2013 Tooling Systems A-12-02809 or NOVO™ applications.

### DUO-LOCK® ADAPTERS



#### ■ Duo-Lock™ • Metric

order number	catalog number	CSWS system size	D2	D21	L1	L2	kg
6136955	PSC63DL10050M	DL10	10	10	50	5	0,77
6136956	PSC63DL12050M	DL12	12	12	50	6	0,77
6136957	PSC63DL16055M	DL16	16	16	55	8	0,78
6136958	PSC63DL20055M	DL20	19	20	55	10	0,80
6136959	PSC63DL25060M	DL25	24	25	60	12	0,83
6136960	PSC63DL32068M	DL32	31	32	68	16	0,91

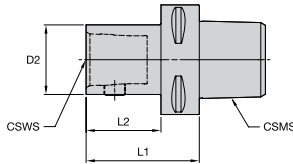
NOTE: For technical information and spare parts, visit kennametal.com.

#### ■ Duo-Lock™ • Inch

order number	catalog number	CSWS system size	D2	D21	L1	L2	lbs
6136931	PSC63DL10200	DL10	.36	.37	2.00	.19	1.69
6136932	PSC63DL12200	DL12	.48	.50	2.00	.25	1.70
6136933	PSC63DL16225	DL16	.61	.63	2.25	.31	1.73
6136934	PSC63DL20225	DL20	.73	.75	2.25	.37	1.75
6136935	PSC63DL25238	DL25	.96	1.00	2.38	.49	1.84
6136936	PSC63DL32275	DL32	1.21	1.25	2.75	.61	2.02

NOTE: For technical information and spare parts, visit kennametal.com.

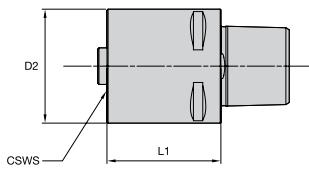
### PSC TO KM™ ADAPTERS



#### ■ PSC to KM • Adapter

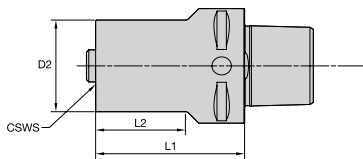
order number	catalog number	CSMS system size	CSWS system size	D2		L1		L2		kg	lbs
				mm	in	mm	in	mm	in		
3852030	PSC63KM40TS065M	PSC63	KM40TS	40	1.575	65	2.559	43	1.693	1,09	2.41
3852063	PSC63KM40TS090M	PSC63	KM40TS	40	1.575	90	3.543	68	2.677	1,32	2.91
3852031	PSC63KM50TS075M	PSC63	KM50TS	50	1.969	75	2.953	53	2.087	1,37	3.03
3852064	PSC63KM50TS090M	PSC63	KM50TS	50	1.969	90	3.543	68	2.677	1,59	3.50
3852032	PSC63KM63TS090M	PSC63	KM63TS	63	2.480	90	3.543	90	3.543	2,00	4.42
3852065	PSC63KM63TS105M	PSC63	KM63TS	63	2.480	105	4.134	105	4.134	2,34	5.17

### PSC EXTENSIONS AND REDUCERS



#### S PSC Extensions

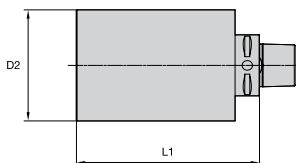
order number	catalog number	CSWS system size	D2		L1		kg
			mm	in	mm	in	
6341269	PSC63S63060M	PSC63	63	2.480	60	2.362	1,34
6341270	PSC63S63100M	PSC63	63	2.480	100	3.937	2,20
6341311	PSC63S63140M	PSC63	63	2.480	140	5.512	3,10



#### S PSC Reducers

order number	catalog number	CSWS system size	D2		L1		L2		kg
			mm	in	mm	in	mm	in	
6341313	PSC63S50080M	PSC50	50	1.969	80	3.150	51	1.996	0,78

### PSC BLANKS



#### BN Blanks

order number	catalog number	D2		L1		hardness range	kg
		mm	in	mm	in		
6346455	PSC63BN063180	63	2.480	180	7.087	28 - 32 HRC	4,61
6346457	PSC63BN091075	91	3.583	75	2.953	28 - 32 HRC	3,45
6346456	PSC63BN115100	115	4.528	100	3.937	28 - 32 HRC	7,10

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Visit [kennametal.com](http://kennametal.com) for additional contact information for locations.



### TOOLING SYSTEMS ICONS

 Shank: Cylindrical Plain	 Shank: Cylindrical Plain ≤h6	 Shank: Cylindrical Weldon®	 Shank – Cylindrical Weldon ≤h6	 Shank: Cylindrical Weldon 2 Flat
 Shank: Cylindrical Whistle Notch ≤h6	 Shank: Cylindrical Whistle Notch 2°	 Shank – Cylindrical with Flat	 Shank: SK BT JIS B 6339	 Shank: SK DV DIN 69871
 Shank: SK CV	 Shank – Cylindrical Whistle Notch with Drive and Flange	 Shank – HSK DIN 69893 Form A	 Shank: Shell Mill	 Shank – KM-TS™ ISO 26622
 Shank – Cylindrical with Square	 Shank: PSC	 Duo-Lock™ Connection	 Shank: VDI Shank	 Axial Adjustments: End
 Axial Adjustment – Side	 Balance G 2.5/25,000	 Balance – G 2.5@ 25,000 min <sup>-1</sup>	 DIN 6535/1835 DIN Number 6535/1835	 DIN 69893 DIN Number 69893
 DIN 1835/E DIN Number 1835/E	 Collet – ER DIN 6499	 Accuracy – 3µm or Less	 Compensation – Tension and Compression	 Drilling – Through Coolant
 Milling – Through Coolant	 Through Coolant	 Through Coolant: 80 Bar	 Through Coolant: 1200 psi	
 *Through Coolant	 Through Coolant: Multicoolant	 ISO 26622 ISO 26622	 ISO 26623 ISO 26623	

DIN – German Institute for Standardization  
ANSI – American National Standards Institute

\*Max. Coolant pressure = 10 Bar/150 psi for PSC units with this icon.

# METALCUTTING SAFETY

## IMPORTANT SAFETY INSTRUCTIONS

Read before using the tools in this catalog!

### Projectile and Fragmentation Hazards:

Modern metalcutting operations involve high spindle and cutter speeds and high temperatures and cutting forces. Hot metal chips may fly off the workpiece during metalcutting. Although cutting tools are designed and manufactured to withstand high cutting forces and temperatures, they can sometimes fragment, particularly if they are subjected to over-stress, severe impact, or other abuse.

To avoid injury:

- Always wear appropriate personal protective equipment, including safety goggles, when operating metalcutting machines or working nearby.
- Always make sure all machine guards are in place.

### Breathing and Skin Contact Hazards:

Grinding carbide or other advanced cutting tool materials produces dust or mist containing metallic particles. Breathing this dust or mist — especially over an extended period — can cause temporary or permanent lung disease or make existing medical conditions worse. Contact with this dust or mist can irritate eyes, skin, and mucous membranes and may make existing skin conditions worse.

To avoid injury:

- Always wear breathing protection and safety goggles when grinding.
- Provide ventilation control and collect and properly dispose of dust, mist, or sludge from grinding.
- Avoid skin contact with dust or mist.

For more information, read the applicable Material Safety Data Sheet provided by Kennametal and consult General Industry Safety and Health Regulations, Part 1910, Title 29 of the Code of Federal Regulations.

These safety instructions are general guidelines. Many variables affect machining operations. It is impossible to cover every specific situation. The technical information included in this catalog and recommendations on machining practices may not apply to your particular operation. For more information, consult the Kennametal Metalcutting Safety booklet, available free from Kennametal at 724 539 5747 or fax 724 539 5439. For specific product safety and environmental questions, contact our Corporate Environmental Health and Safety Office at 724 539 5066 or fax 724 539 5372.

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*INCONEL® is a registered trademarks of Special Metals Corporation.*

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*Weldon® is a registered trademark of Weldon Tool Company.*

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# Tooling Systems Innovations

## 2014–2017

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