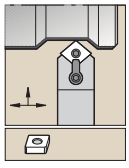
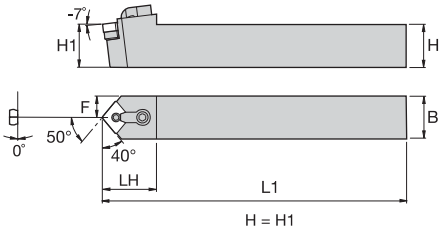


MCGN 0°



order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096110	**MCGNR124B**	.75	.75	1.000	4.50	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096111	**MCGNR164C**	1.00	1.00	1.250	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096112	**MCGNR164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
left hand													
1096113	**MCGNL124B**	.75	.75	1.000	4.50	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096114	**MCGNL164C**	1.00	1.00	1.250	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096115	**MCGNL164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8



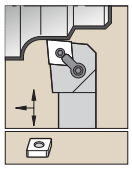


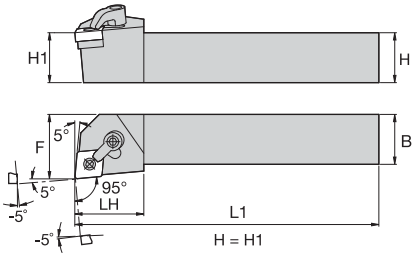


MCHN 50°



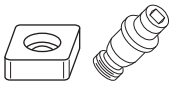
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1808120	**MCHNN164C**	1.00	1.00	.500	5.00	1.25	CN..432	**ICSN433**	**KL46**	3/32	**CK21**	**STC20**	1/8
1808121	**MCHNN205D**	1.25	1.25	.625	6.00	1.38	CN..543	**ICSN533**	**KL58**	1/8	**CK21**	**STC20**	1/8
1808122	**MCHNN246D**	1.50	1.50	.750	6.00	1.60	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32

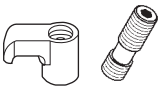






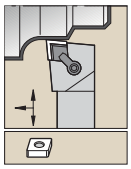
MCLN -5°

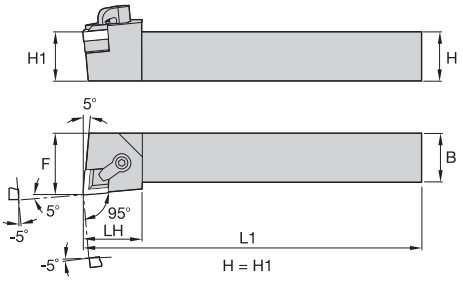




order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096086	**MCLNR083A**	.50	.50	.750	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096087	**MCLNR103A**	.63	.63	.875	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096066	**MCLNR123B**	.75	.75	1.000	4.50	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1808149	**MCLNR124A**	.75	.75	1.000	4.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096067	**MCLNR124B**	.75	.75	1.000	4.50	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096068	**MCLNR163C**	1.00	1.00	1.250	5.00	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1096069	**MCLNR163D**	1.00	1.00	1.250	6.00	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1083005	**MCLNR164C**	1.00	1.00	1.250	5.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096070	**MCLNR164D**	1.00	1.00	1.250	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096071	**MCLNR165C**	1.00	1.00	1.250	5.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096072	**MCLNR165D**	1.00	1.00	1.250	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808150	**MCLNR166C**	1.00	1.00	1.250	5.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096073	**MCLNR166D**	1.00	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096075	**MCLNR204D**	1.25	1.25	1.500	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096076	**MCLNR205D**	1.25	1.25	1.500	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096077	**MCLNR206D**	1.25	1.25	1.500	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096079	**MCLNR244D**	1.50	1.50	2.000	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1808151	**MCLNR245D**	1.50	1.50	2.000	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096080	**MCLNR245E**	1.50	1.50	2.000	7.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096081	**MCLNR246D**	1.50	1.50	2.000	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096082	**MCLNR246E**	1.50	1.50	2.000	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1808152	**MCLNR248E**	1.50	1.50	2.000	7.00	1.49	CN..866	**ICSN846**	**KL810**	5/32	**CK24**	**STC19**	3/16
1808153	**MCLNR326F**	2.00	2.00	2.500	8.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096083	**MCLNR854D**	1.25	1.00	1.250	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096084	**MCLNR856D**	1.25	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096085	**MCLNR866E**	1.50	1.00	1.250	7.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
left hand													
1096108	**MCLNL083A**	.50	.50	.750	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096109	**MCLNL103A**	.63	.63	.875	4.00	1.00	CN..322	**–**	**KL33**	5/64	**CK6**	**STC5**	3/32
1096088	**MCLNL123B**	.75	.75	1.000	4.50	1.00	CN..322	**ICSN332**	**KL34L**	5/64	**CK6**	**STC5**	3/32
1808143	**MCLNL124A**	.75	.75	1.000	4.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096089	**MCLNL124B**	.75	.75	1.000	4.50	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1016432	**MCLNL164C**	1.00	1.00	1.250	5.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096092	**MCLNL164D**	1.00	1.00	1.250	6.00	1.20	CNMA432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8
1096093	**MCLNL165C**	1.00	1.00	1.250	5.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096094	**MCLNL165D**	1.00	1.00	1.250	6.00	1.37	CN..543	**ICSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808144	**MCLNL166C**	1.00	1.00	1.250	5.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096095	**MCLNL166D**	1.00	1.00	1.250	6.00	1.49	CN..643	**ICSN633**	**KL68**	9/64	**CK12**	**STC4**	5/32
1096097	**MCLNL204D**	1.25	1.25	1.500	6.00	1.20	CN..432	**ICSN433**	**KL46**	3/32	**CK20**	**STC20**	1/8

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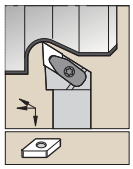


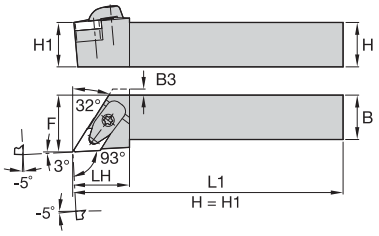


MCLN-C -5°



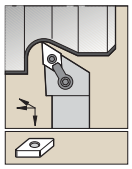
order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096643	**MCLNRC164D**	1.00	1.00	1.250	6.00	1.25	CN..432	**ICSN442**	**KL46L**	3/32	**CK21**	**STC20**	1/8

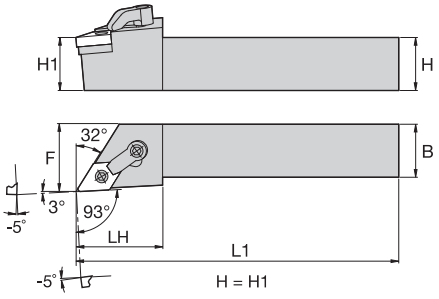


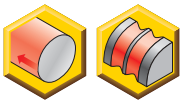


DDJN-KC -3°

order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	clamp assembly	Torx Plus	slotted pin
right hand														
2273014	**DDJNR123BKC3**	.75	.75	1.000	4.50	1.25	.06	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273065	**DDJNR163CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273016	**DDJNR163DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273018	**DDJNR203DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875140	**DDJNR164CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875136	**DDJNR164DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875148	**DDJNR204DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875170	**DDJNR165DKC4**	1.00	1.00	1.250	6.00	1.38	.15	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875178	**DDJNR245DKC4**	1.50	1.50	2.000	6.00	1.38	—	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
left hand														
2273015	**DDJNL123BKC3**	.75	.75	1.000	4.50	1.25	.06	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273066	**DDJNL163CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
2273017	**DDJNL163DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..332	**IDSN322**	**KMSP315IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875149	**DDJNL164CKC3**	1.00	1.00	1.250	5.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875139	**DDJNL164DKC3**	1.00	1.00	1.250	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875151	**DDJNL204DKC3**	1.25	1.25	1.500	6.00	1.25	—	DN..432	**IDSN443**	**KMSP415IP**	15 IP	**CM234R ASSY**	15 IP	**SSP025016M**
1875167	**DDJNL165DKC4**	1.00	1.00	1.250	6.00	1.38	.15	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**
1875177	**DDJNL205DKC4**	1.25	1.25	1.500	6.00	1.38	—	DN..543	**IDSN543**	**KMSP515IP**	15 IP	**CM209R ASSY**	15 IP	**SSP025016M**



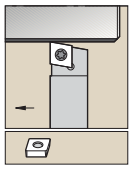


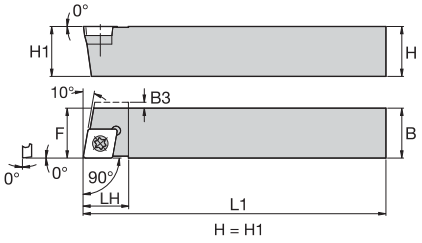


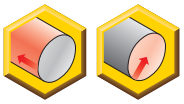
MDJN -3°



order number	catalog number	H	B	F	L1	LH	gage insert	shim	lock pin	hex	clamp	clamp screw	hex
right hand													
1096240	**MDJNR123B**	.75	.75	1.000	4.50	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096242	**MDJNR163C**	1.00	1.00	1.250	5.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096243	**MDJNR163D**	1.00	1.00	1.250	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096247	**MDJNR203D**	1.25	1.25	1.500	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1808169	**MDJNR124A**	.75	.75	1.000	4.00	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096241	**MDJNR124B**	.75	.75	1.000	4.50	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096244	**MDJNR164C**	1.00	1.00	1.250	5.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096245	**MDJNR164D**	1.00	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096251	**MDJNR854D**	1.25	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1016454	**MDJNR204D**	1.25	1.25	1.500	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096246	**MDJNR165D**	1.00	1.00	1.250	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096248	**MDJNR205D**	1.25	1.25	1.500	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096250	**MDJNR245D**	1.50	1.50	2.000	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808170	**MDJNR245E**	1.50	1.50	2.000	7.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
left hand													
1096252	**MDJNL123B**	.75	.75	1.000	4.50	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096254	**MDJNL163C**	1.00	1.00	1.250	5.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096255	**MDJNL163D**	1.00	1.00	1.250	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1096259	**MDJNL203D**	1.25	1.25	1.500	6.00	1.25	DN..332	**IDSN322**	**KL34L**	5/64	**CK7**	**STC5**	3/32
1808167	**MDJNL124A**	.75	.75	1.000	4.00	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096253	**MDJNL124B**	.75	.75	1.000	4.50	1.38	DN..432	**IDSN443**	**KL46L**	3/32	**CK23**	**STC20**	1/8
1096256	**MDJNL164C**	1.00	1.00	1.250	5.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096257	**MDJNL164D**	1.00	1.00	1.250	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096260	**MDJNL204D**	1.25	1.25	1.500	6.00	1.24	DN..432	**IDSN443**	**KL46L**	3/32	**CK20**	**STC20**	1/8
1096261	**MDJNL205D**	1.25	1.25	1.500	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1096263	**MDJNL245D**	1.50	1.50	2.000	6.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32
1808168	**MDJNL245E**	1.50	1.50	2.000	7.00	1.47	DN..543	**IDSN533**	**KL58**	1/8	**CK12**	**STC4**	5/32





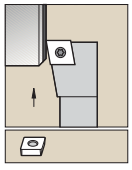


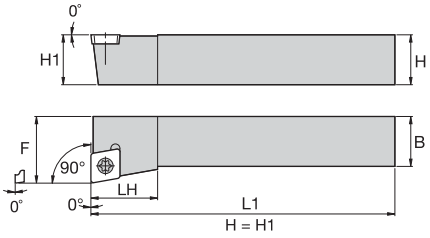
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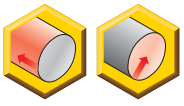




order number	catalog number	H	B	F	L1	LH	B3	gage insert	shim	shim screw	Torx Plus	wrench size insert screw
right hand												
1094433	**SCACR052D**	.31	.31	.313	6.00	.44	.09	CC..2151	–	–	–	**MS1153**
1094435	**SCACR062D**	.38	.38	.375	6.00	.44	–	CC..2151	–	–	–	**MS1153**
1094437	**SCACR083D**	.50	.50	.500	6.00	.62	–	CC..3252	–	–	–	**MS1155**
1094589	**SCACR103B**	.63	.63	.625	4.50	.62	–	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**
left hand												
1094436	**SCACL062D**	.38	.38	.375	6.00	.44	–	CC..2151	–	–	–	**MS1153**
1094438	**SCACL083D**	.50	.50	.500	6.00	.62	–	CC..3252	–	–	–	**MS1155**
1094590	**SCACL103B**	.63	.63	.625	4.50	.62	–	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**



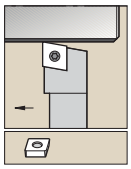


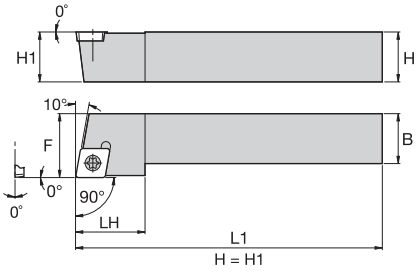


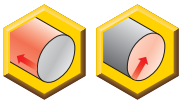
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order number	catalog number	H	B	F	L1	LH	gage insert	insert screw	Torx
right hand									
1094443	**SCFCR082**	.50	.50	.625	3.50	.50	CC..2151	**MS1153**	T7
left hand									
1094444	**SCFCL082**	.50	.50	.625	3.50	.50	CC..2151	**MS1153**	T7





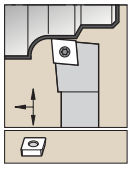


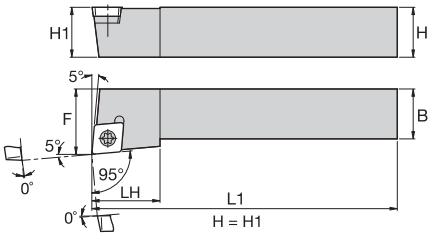
SCGC 0°





order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094453	**SCGCR062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094455	**SCGCR082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094457	**SCGCR102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094459	**SCGCR103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094461	**SCGCR123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094572	**SCGCR163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
left hand												
1094462	**SCGCL123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094573	**SCGCL163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15





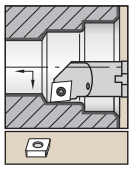


SCLC -5°

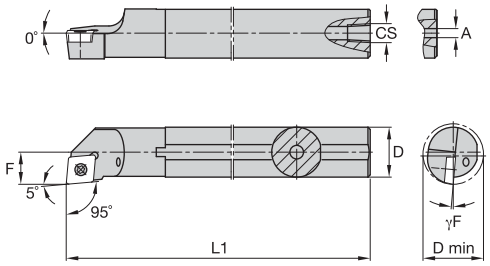




order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	hex	insert screw	Torx
right hand												
1094475	**SCLCR052**	.31	.31	.375	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094477	**SCLCR062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094479	**SCLCR082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094481	**SCLCR102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094483	**SCLCR103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094485	**SCLCR123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094576	**SCLCR163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1843875	**SCLCR124B**	.75	.75	1.000	4.50	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1843877	**SCLCR164D**	1.00	1.00	1.250	6.00	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
left hand												
1094476	**SCLCL052**	.31	.31	.375	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094478	**SCLCL062**	.38	.38	.500	2.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094480	**SCLCL082**	.50	.50	.625	3.50	.50	CC..2151	–	–	–	**MS1153**	T7
1094482	**SCLCL102**	.63	.63	.750	4.00	.50	CC..2151	–	–	–	**MS1153**	T7
1094484	**SCLCL103**	.63	.63	.750	4.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094486	**SCLCL123**	.75	.75	1.000	4.50	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1094577	**SCLCL163**	1.00	1.00	1.250	6.00	.62	CC..3252	**SKCP343**	**SRS3**	3.5 mm	**MS1156**	T15
1843874	**SCLCL124B**	.75	.75	1.000	4.50	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15
1843876	**SCLCL164D**	1.00	1.00	1.250	6.00	.75	CC..432	**SKCP453**	**SRS4**	4 mm	**MS1158**	T15



Steel shank with through coolant.

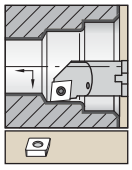




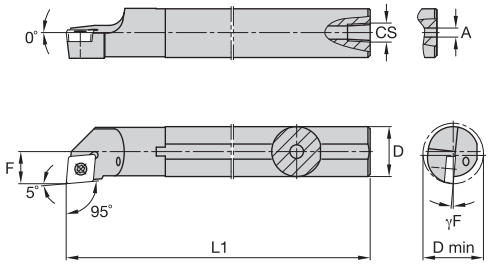
A-SCLC -5°



order number	catalog number	D	D min	F	L1	A	CS	γF°	gage insert	insert screw	Torx
right hand											
1328582	**A06MSCLCR2**	.375	.480	.250	6.00	.13	—	-8.0	CC..2151	**MS1939**	T7
1328584	**A08RSCLCR2**	.500	.600	.312	8.00	—	1/16-27 NPT	-7.0	CC..2151	**MS1153**	T7
1328586	**A10SSCLCR2**	.625	.770	.406	10.00	—	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328588	**A10SSCLCR3**	.625	.770	.406	10.00	—	1/8-27 NPT	-8.0	CC..3252	**MS1155**	T15
1328590	**A12SSCLCR3**	.750	.930	.500	10.00	—	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15
1328592	**A16TSCLCR3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	CC..3252	**MS1155**	T15
left hand											
1328583	**A06MSCLCL2**	.375	.480	.250	6.00	.13	—	-8.0	CC..2151	**MS1939**	T7
1328585	**A08RSCLCL2**	.500	.600	.312	8.00	—	1/16-27 NPT	-7.0	CC..2151	**MS1153**	T7
1328587	**A10SSCLCL2**	.625	.770	.406	10.00	—	1/8-27 NPT	-5.0	CC..2151	**MS1153**	T7
1328589	**A10SSCLCL3**	.625	.770	.406	10.00	—	1/8-27 NPT	-8.0	CC..3252	**MS1155**	T15
1328591	**A12SSCLCL3**	.750	.930	.500	10.00	—	1/8-27 NPT	-5.0	CC..3252	**MS1155**	T15
1328593	**A16TSCLCL3**	1.000	1.200	.640	12.00	—	1/4-18 NPT	-4.0	CC..3252	**MS1155**	T15



Steel shank with through coolant.





E-SCLC -5°



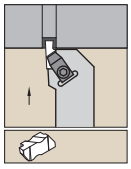
order number	catalog number	D	D min	F	L1	A	γF°	gage insert	insert screw	Torx
right hand										
2598552	**E06MSCLCR2**	.375	.480	.250	6.00	.13	-8.0	CC..2151	**MS2066**	7 IP
2598694	**E08RSCLCR2**	.500	.600	.312	8.00	.19	-7.0	CC..2151	**MS2066**	7 IP
2598696	**E10SSCLCR2**	.625	.770	.406	10.00	.22	-4.0	CC..2151	**MS2066**	7 IP
2598698	**E10SSCLCR3**	.625	.770	.406	10.00	.22	-7.0	CC..3252	**MS2055**	15 IP
2598700	**E12SSCLCR3**	.750	.930	.500	10.00	.28	-5.0	CC..3252	**MS2055**	15 IP
2598702	**E16TSCLCR3**	1.000	1.200	.640	12.00	.31	-4.0	CC..3252	**MS2055**	15 IP
left hand										
2598551	**E06MSCLCL2**	.375	.480	.250	6.00	.13	-8.0	CC..2151	**MS2066**	7 IP
2598697	**E10SSCLCL3**	.625	.770	.406	10.00	.22	-7.0	CC..3252	**MS2055**	15 IP
2598699	**E12SSCLCL3**	.750	.930	.500	10.00	.28	-5.0	CC..3252	**MS2055**	15 IP

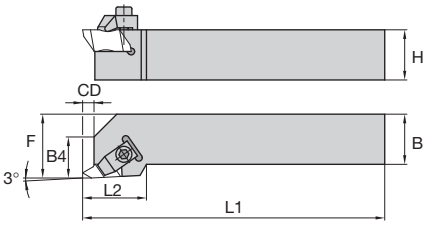
(Integral Straight • Inch — continued)



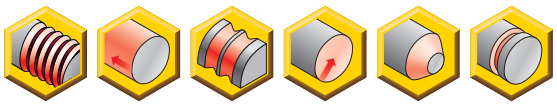

order number	catalog number	seat size	CD	H1	B	H2	L1	FS	LH	CF	CS	Torx clamp screw	Torx clamp screw	Torx
left hand														
5956543	**EVSML120216**	2	.63	.750	.750	1.03	4.50	.71	1.22	—	—	**—**	**MS1160**	T20
5956545	**EVSML160216**	2	.63	1.000	1.000	1.28	6.00	.96	1.22	—	—	**—**	**MS1160**	T20
5956544	**EVSML120222**	2	.87	.750	.750	1.10	4.50	.71	1.50	—	—	**MS2091**	**—**	25 IP
5956546	**EVSML160226**	2	1.02	1.000	1.000	1.35	6.00	.96	1.65	—	—	**MS2091**	**—**	25 IP
5939464	**EVSML120316C**	3	.63	.750	.750	1.09	4.50	.69	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5939466	**EVSML160316C**	3	.63	1.000	1.000	1.34	6.00	.94	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5939465	**EVSML120322C**	3	.87	.750	.750	1.10	4.50	.69	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5939467	**EVSML160326C**	3	1.02	1.000	1.000	1.35	6.00	.94	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5939468	**EVSML120416C**	4	.63	.750	.750	1.09	4.50	.68	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5939470	**EVSML160416C**	4	.63	1.000	1.000	1.34	6.00	.93	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5939469	**EVSML120422C**	4	.87	.750	.750	1.10	4.50	.68	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5939471	**EVSML160426C**	4	1.02	1.000	1.000	1.35	6.00	.93	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1595**	**—**	T30
5939472	**EVSML200426C**	4	1.02	1.250	1.250	1.62	6.00	1.18	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5939453	**EVSML200432C**	4	1.26	1.250	1.250	1.62	6.00	1.18	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5955456	**EVSML120516C**	5	.63	.750	.750	1.09	4.50	.66	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5955459	**EVSML160516C**	5	.63	1.000	1.000	1.34	6.00	.91	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5955457	**EVSML120522C**	5	.87	.750	.750	1.10	4.50	.66	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5955460	**EVSML160526C**	5	1.02	1.000	1.000	1.35	6.00	.91	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5955426	**EVSML200526C**	5	1.02	1.250	1.250	1.62	6.00	1.16	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5955461	**EVSML200532C**	5	1.26	1.250	1.250	1.62	6.00	1.16	2.09	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5955462	**EVSML120616C**	6	.63	.750	.750	1.09	4.50	.64	1.46	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5955464	**EVSML160616C**	6	.63	1.000	1.000	1.34	6.00	.89	1.46	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5955463	**EVSML120622C**	6	.87	.750	.750	1.10	4.50	.64	1.69	1/16 - 27 NPTF	1/16 - 27 NPTF	**MS1595**	**—**	T30
5955465	**EVSML160626C**	6	1.02	1.000	1.000	1.35	6.00	.89	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5955466	**EVSML200626C**	6	1.02	1.250	1.250	1.62	6.00	1.14	1.85	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1970**	**—**	T30
5955467	**EVSML200632C**	6	1.26	1.250	1.250	1.66	6.00	1.14	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
5955468	**EVSML240640C**	6	1.58	1.500	1.500	1.93	7.00	1.39	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
5955469	**EVSML160826C**	8	1.02	1.000	1.000	1.39	6.00	.86	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
5955470	**EVSML200826C**	8	1.02	1.250	1.250	1.66	6.00	1.11	1.93	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
5955471	**EVSML200832C**	8	1.26	1.250	1.250	1.66	6.00	1.11	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
5955472	**EVSML240840C**	8	1.58	1.500	1.500	1.93	7.00	1.36	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
5955473	**EVSML201032C**	10	1.26	1.250	1.250	1.69	6.00	1.08	2.17	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45
5955474	**EVSML241040C**	10	1.58	1.500	1.500	1.94	7.00	1.33	2.48	1/8 - 27 NPTF	1/8 - 27 NPTF	**MS1490**	**—**	T45

screw	screw	torque				wrench	wrench
catalog number	order number	Nm	in. lbs.	thread	socket	catalog number	order number
MS1160	**1099645**	7	62	M5	T20	**KT20**	**1022703**
MS1162	**1127019**	9	80	M6	T25	**KT25**	**1022725**
MS1163	**1124104**	18	159	M8	T30	**KT30L**	**1099676**
MS1273	**1020977**	4	35.4	M4	T15	**KT15**	**1022701**
MS1490	**2263299**	17	151	M8	T45	**KT45**	**1018227**
MS1595	**1094300**	12	106	M6	T30	**KT30**	**1099676**
MS1970	**1106668**	12	106	M6	T30	**KT30**	**1099676**
MS2002	**1621087**	9	80	M6	T25	**KT25**	**1022725**
MS2091	**1931147**	9	80	M5	25IP	**K25IP**	**2050113**

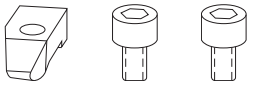




Right Hand

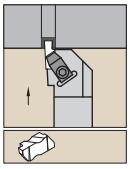


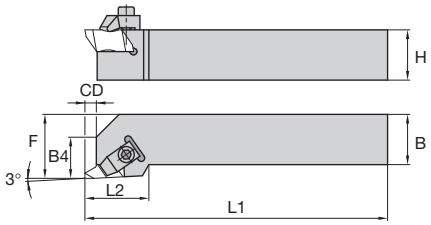
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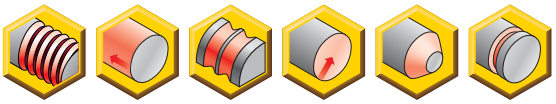
order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex/ Torx Plus
right hand													
1095583	**NSR062**	.375	.375	.562	2.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097608	**NSR082V**	.500	.500	.750	3.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097609	**NSR102B**	.625	.625	.875	4.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097584	**NSR122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097585	**NSR162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2R	**CM74**	**—**	**S310**	7/64
1097590	**NSR123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097586	**NSR123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097587	**NSR163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1016462	**NSR163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097588	**NSR203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097589	**NSR243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097596	**NSR243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097591	**NSR853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1097601	**NSR205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5R	**CM80**	**—**	**S352**	1/4
1016474	**NSR245D**	1.500	1.500	2.000	6.00	2.00	.61	.415	N.5R	**CM80**	**—**	**S352**	1/4
left hand													
1095582	**NSL062**	.375	.375	.562	2.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097278	**NSL082V**	.500	.500	.750	3.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097279	**NSL102B**	.625	.625	.875	4.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097254	**NSL122B**	.750	.750	1.000	4.50	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097255	**NSL162C**	1.000	1.000	1.250	5.00	.75	.35	.138	N.2L	**CM75**	**—**	**S310**	7/64
1097261	**NSL123A**	.750	.750	1.000	4.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097256	**NSL123B**	.750	.750	1.000	4.50	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097257	**NSL163C**	1.000	1.000	1.250	5.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097260	**NSL163D**	1.000	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097258	**NSL203D**	1.250	1.250	1.500	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097259	**NSL243D**	1.500	1.500	2.000	6.00	1.38	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097267	**NSL243E**	1.500	1.500	2.000	7.00	1.38	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097262	**NSL853D**	1.250	1.000	1.250	6.00	1.25	.50	.210	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1097272	**NSL205D**	1.250	1.250	1.500	6.00	2.00	.61	.415	N.5L	**CM81**	**—**	**S352**	1/4

NOTE: F dimension measured over sharp point of N-style threading insert.





Right Hand

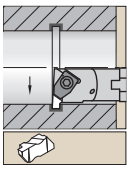


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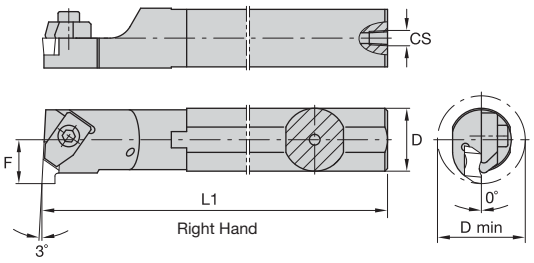


order number	catalog number	H	B	F	L1	LH	B4	CD	gage insert	clamp	clamp screw	clamp screw	hex (mm)/ Torx Plus
right hand													
1098790	**NSR1010E2**	10	10	14	70	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098791	**NSR1212F2**	12	12	16	80	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098792	**NSR1616H2**	16	16	20	100	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098793	**NSR2020K2**	20	20	25	125	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098794	**NSR2525M2**	25	25	32	150	19	9	3,5	N.2R	**CM74**	**MS1200**	**–**	T10
1098795	**NSR2020K3**	20	20	25	125	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098796	**NSR2525M3**	25	25	32	150	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098797	**NSR3225P3**	32	25	32	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098798	**NSR3232P3**	32	32	40	170	32	13	5,3	N.3R	**CM72LP**	**–**	**MS2111**	25 IP
1098799	**NSR2525M4**	25	25	32	150	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098800	**NSR3225P4**	32	25	32	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
1098801	**NSR3232P4**	32	32	40	170	35	14	7,5	N.4R	**CM72LP**	**–**	**MS2111**	25 IP
left hand													
1098861	**NSL1010E2**	10	10	14	70	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098862	**NSL1212F2**	12	12	16	80	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098863	**NSL1616H2**	16	16	20	100	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098864	**NSL2020K2**	20	20	25	125	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098865	**NSL2525M2**	25	25	32	150	19	9	3,5	N.2L	**CM75**	**MS1200**	**–**	T10
1098866	**NSL2020K3**	20	20	25	125	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098867	**NSL2525M3**	25	25	32	150	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098868	**NSL3225P3**	32	25	32	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098869	**NSL3232P3**	32	32	40	170	32	13	5,3	N.3L	**CM73LP**	**–**	**MS2111**	25 IP
1098870	**NSL2525M4**	25	25	32	150	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098871	**NSL3225P4**	32	25	32	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP
1098872	**NSL3232P4**	32	32	40	170	35	14	7,5	N.4L	**CM73LP**	**–**	**MS2111**	25 IP

NOTE: F dimension measured over sharp point of N-style threading insert.

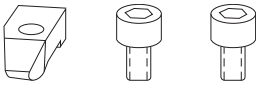


Steel shank with through coolant.



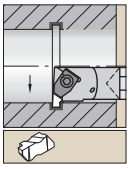


Steel Boring Bar • Inch

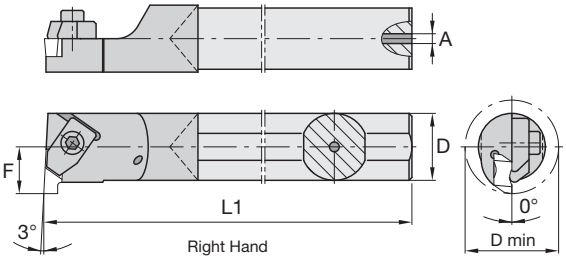


order number	catalog number	D min	D	L1	F	CS	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand											
1094824	**A08NER2**	.730	.500	8	.437	1/16-27 NPT	N.2L	**CM147**	**—**	**S39**	7/64
1094829	**A10SNER2**	1.000	.625	10	.500	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094831	**A12SNER2**	1.125	.750	10	.562	1/8-27 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094833	**A16TNER2**	1.375	1.000	12	.688	1/4-18 NPT	N.2L	**CM75**	**—**	**S310**	7/64
1094835	**A16NER3**	1.375	1.000	12	.688	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094837	**A20NER3**	1.750	1.250	14	.875	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094839	**A24NER3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094841	**A28NER3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094843	**A32NER3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094845	**A40NER3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3L	**CM73LP**	**S2112**	**—**	25 IP
1094847	**A28NER4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094849	**A32NER4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094853	**A40NER4**	3.250	2.500	16	1.625	1/4-18 NPT	N.4L	**CM73LP**	**S2112**	**—**	25 IP
1094859	**A32NER6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6L	**CM121**	**S2112**	**—**	5/32
left hand											
1094825	**A08NEL2**	.730	.500	8	.437	1/16-27 NPT	N.2R	**CM146**	**—**	**S39**	7/64
1094830	**A10SNEL2**	1.000	.625	10	.500	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094832	**A12NEL2**	1.125	.750	10	.562	1/8-27 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094834	**A16TNEL2**	1.375	1.000	12	.688	1/4-18 NPT	N.2R	**CM74**	**—**	**S310**	7/64
1094836	**A16NEL3**	1.375	1.000	12	.688	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094838	**A20NEL3**	1.750	1.250	14	.875	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094840	**A24NEL3**	2.000	1.500	14	1.000	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094842	**A28NEL3**	2.250	1.750	14	1.125	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094844	**A32NEL3**	2.500	2.000	16	1.250	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094846	**A40NEL3**	3.000	2.500	16	1.500	1/4-18 NPT	N.3R	**CM72LP**	**S2112**	**—**	25 IP
1094848	**A28NEL4**	2.500	1.750	14	1.250	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094850	**A32NEL4**	2.750	2.000	16	1.375	1/4-18 NPT	N.4R	**CM72LP**	**S2112**	**—**	25 IP
1094856	**A32NEL5**	2.812	2.000	16	1.406	1/4-18 NPT	N.5R	**CM80**	**—**	**S352**	1/4
1094860	**A32NEL6**	2.750	2.000	16	1.375	1/4-18 NPT	N.6R	**CM120**	**S2112**	**—**	5/32

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Carbide shank with through coolant.



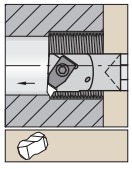


Carbide Boring Bar • Inch

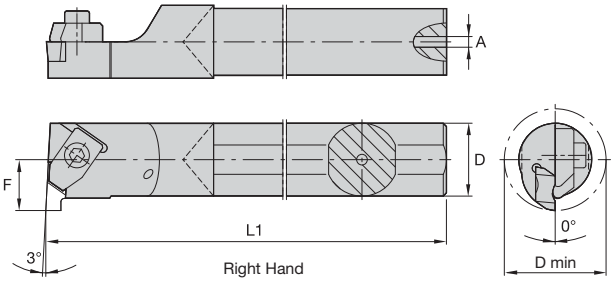



order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	hex (inch)/ Torx Plus
right hand										
1152688	**E08NER2**	.730	.500	8	.437	.19	N.2L	**CM147**	**S39**	7/64
1152606	**E10NER2**	1.000	.625	10	.500	.22	N.2L	**CM75**	**S310**	7/64
1152608	**E12NER2**	1.125	.750	10	.562	.28	N.2L	**CM75**	**S310**	7/64
1152610	**E16NER3**	1.375	1.000	12	.688	.31	N.3L	**CM73**	**S412**	25 IP
left hand										
1152689	**E08NEL2**	.730	.500	8	.437	.19	N.2R	**CM146**	**S39**	7/64
1152607	**E10NEL2**	1.000	.625	10	.500	.22	N.2R	**CM74**	**S310**	7/64
1152609	**E12NEL2**	1.125	.750	10	.562	.28	N.2R	**CM74**	**S310**	7/64
1152611	**E16NEL3**	1.375	1.000	12	.688	.31	N.3R	**CM-72**	**S412**	25 IP

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Carbide shank with through coolant.



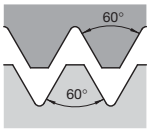


Carbide Boring Bar • Metric

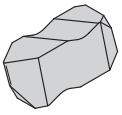


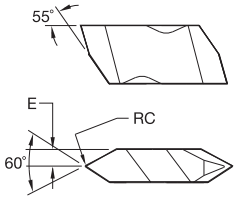

order number	catalog number	D min	D	L1	F	A	gage insert	clamp	clamp screw	Torx/ Torx Plus
right hand										
1152834	**E16RNNTOR2**	22,0	16	200	11	5,537	N.2L	**CM75**	**MS1200**	T10
1152836	**E20SNNTOR2**	26,0	20	250	13	7,137	N.2L	**CM75**	**MS1200**	T10
left hand										
1152835	**E16RNNTOL2**	22,0	16	200	11	5,537	N.2R	**CM74**	**MS1200**	T10

NOTE: Minimum bore capability varies with depth of groove. See page C197 for details.



Partial Profile 60°



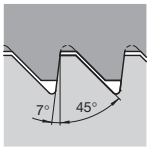


● first choice
○ alternate choice

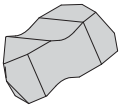
P			●	●	●	●	
M			●	●	●	●	
K		○	●	●	●	●	
N		●	●	○	○	○	●
S		●	●	●	●	●	○
H			○		○		

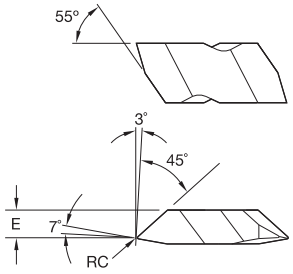
NT

catalog number	insert size	RC mm	RC in	E mm	E in	external thread pitch mm	internal thread pitch mm	external TPI	internal TPI	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand															
NT2R	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3R	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4R	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–
left hand															
NT2L	2	0,10	.0040	1,90	.075	0,70-3,0	1,25-3,5	8-36	7-20	●	●	●	●	●	–
NT3L	3	0,17	.0065	2,49	.098	1,25-4,0	2,0-5,0	6-20	5-12	●	●	●	●	●	–
NT4L	4	0,17	.0065	3,25	.128	1,25-6,25	2,0-6,25	4-20	4-12	●	●	●	●	●	–



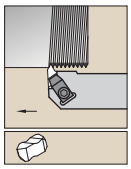
American Buttress-Push

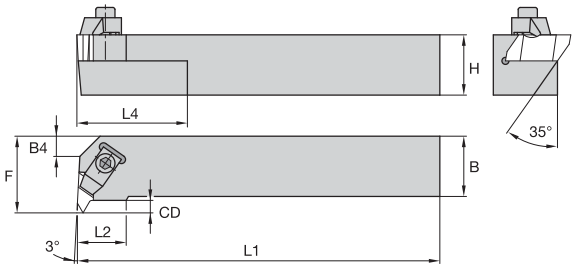


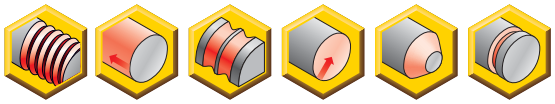


NTB-A

catalog number	insert size	RC mm	RC in	E mm	E in	TPI	TPF	K68	KCU10	KCU25	KC5010	KC5025	KC5410
right hand													
NTB2RA	2	0,08	.0030	3,20	.126	16-20	—	●	–	–	–	–	–
NTB3RA	3	0,17	.0065	4,17	.164	8-16	—	–	●	–	–	●	–
NTB4RA	4	0,25	.0100	5,23	.206	4-6	—	–	●	–	–	–	–
left hand													
NTB3LA	3	0,17	.0065	4,17	.164	8-16	—	●	–	–	●	●	–







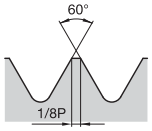
NE



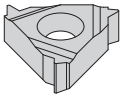


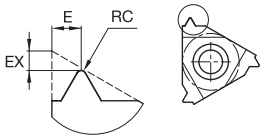
order number	catalog number	H	B	F	L1	LH	B4	CD	L4	gage insert	clamp	clamp screw	clamp screw	hex (inch)/ Torx Plus
right hand														
1095581	**NER062**	.375	.375	.750	2.50	.50	–	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097577	**NER082V**	.500	.500	.750	3.50	.50	–	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097578	**NER102B**	.625	.625	.750	4.50	–	–	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097559	**NER122B**	.750	.750	1.000	4.50	.50	.29	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097560	**NER162C**	1.000	1.000	1.250	5.00	.50	.41	.138	1.000	N.2L	**CM75**	**S310**	–	7/64
1097561	**NER123B**	.750	.750	1.125	4.50	.75	–	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097562	**NER163C**	1.000	1.000	1.250	5.00	.75	–	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097565	**NER163D**	1.000	1.000	1.250	6.00	.75	–	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097563	**NER203D**	1.250	1.250	1.500	6.00	.75	.26	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097566	**NER853D**	1.250	1.000	1.250	6.00	.75	–	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097564	**NER243D**	1.500	1.500	2.000	6.00	.75	.76	.210	2.000	N.3L	**CM73LP**	–	**S2112**	25 IP
1097567	**NER164C**	1.000	1.000	1.375	5.00	.75	–	.294	2.000	N.4L	**CM73LP**	–	**S2112**	25 IP
1097570	**NER164D**	1.000	1.000	1.375	6.00	.75	–	.294	2.000	N.4L	**CM73LP**	–	**S2112**	25 IP
1097568	**NER204D**	1.250	1.250	1.625	6.00	.75	.27	.294	2.000	N.4L	**CM73LP**	–	**S2112**	25 IP
1097569	**NER244D**	1.500	1.500	2.000	6.00	.75	.65	.294	2.000	N.4L	**CM73LP**	–	**S2112**	25 IP
1097575	**NER205D**	1.250	1.250	2.000	6.00	1.44	–	.415	2.000	N.5L	**CM81**	**S352**	–	1/4
1097571	**NER206D**	1.250	1.250	1.625	6.00	.75	.27	.300	2.000	N.6L	**CM121**	**S412**	–	5/32
left hand														
1095580	**NEL062**	.375	.375	.750	2.50	.50	–	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097247	**NEL082V**	.500	.500	.750	3.50	.50	–	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097248	**NEL102B**	.625	.625	.750	4.50	–	–	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097231	**NEL122B**	.750	.750	1.000	4.50	.50	.29	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097232	**NEL162C**	1.000	1.000	1.250	5.00	.50	.41	.138	1.000	N.2R	**CM74**	**S310**	–	7/64
1097233	**NEL123B**	.750	.750	1.125	4.50	.75	–	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097234	**NEL163C**	1.000	1.000	1.250	5.00	.75	–	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097237	**NEL163D**	1.000	1.000	1.250	6.00	.75	–	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097235	**NEL203D**	1.250	1.250	1.500	6.00	.75	.26	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097238	**NEL853D**	1.250	1.000	1.250	6.00	.75	–	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097236	**NEL243D**	1.500	1.500	2.000	6.00	.75	.76	.210	2.000	N.3R	**CM72LP**	–	**S2112**	25 IP
1097239	**NEL164C**	1.000	1.000	1.375	5.00	.75	–	.294	2.000	N.4R	**CM72LP**	–	**S2112**	25 IP
1097242	**NEL164D**	1.000	1.000	1.375	6.00	.75	–	.294	2.000	N.4R	**CM72LP**	–	**S2112**	25 IP
1097240	**NEL204D**	1.250	1.250	1.625	6.00	.75	.27	.294	2.000	N.4R	**CM72LP**	–	**S2112**	25 IP
1097241	**NEL244D**	1.500	1.500	2.000	6.00	.75	.65	.294	2.000	N.4R	**CM72LP**	–	**S2112**	25 IP
1097246	**NEL205D**	1.250	1.250	2.000	6.00	1.44	–	.415	2.000	N.5R	**CM80**	**S352**	–	1/4
1097243	**NEL206D**	1.250	1.250	1.625	6.00	.75	.27	.300	2.000	N.6R	**CM120**	**S412**	–	5/32

NOTE: F dimension measured over sharp point of N-style threading insert.



ISO Metric-External



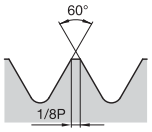


● first choice
○ alternate choice

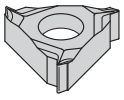
P	●	●	●
M	●	●	●
K	●	●	●
N	○	○	○
S	●	●	●
H	○		

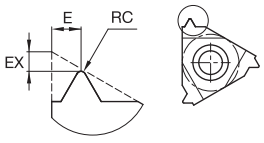
LT-ER/L-ISO

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER05ISO	16	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT16ER075ISO	16	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT16ER10ISO	16	–	–	0,7	.027	0,7	.027	1,0	–	–	●	●	–
LT16ER125ISO	16	–	–	0,8	.031	0,9	.035	1,25	–	–	●	●	–
LT16ER15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT16ER175ISO	16	–	–	0,9	.035	1,2	.047	1,75	–	–	●	●	–
LT16ER20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	●	●	–
LT16ER25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	●	●	–
LT16ER30ISO	16	–	–	1,2	.047	1,6	.063	3,0	–	–	●	●	–
LT22ER35ISO	22	–	–	1,6	.063	2,3	.090	3,5	–	–	–	●	–
LT22ER40ISO	22	–	–	1,6	.063	2,3	.090	4,0	–	–	–	●	–
LT22ER45ISO	22	–	–	1,7	.067	2,4	.094	4,5	–	–	–	●	–
LT22ER50ISO	22	–	–	1,7	.067	2,5	.098	5,0	–	–	–	●	–
left hand													
LT16EL15ISO	16	–	–	0,8	.031	1,0	.039	1,5	–	–	●	●	–
LT16EL175ISO	16	–	–	0,9	.035	1,2	.047	1,75	–	–	–	●	–
LT16EL20ISO	16	–	–	1,0	.039	1,3	.051	2,0	–	–	–	●	–
LT16EL25ISO	16	–	–	1,1	.043	1,5	.059	2,5	–	–	–	●	–
LT16EL30ISO	16	–	–	1,2	.047	1,6	.063	3,0	–	–	–	●	–
LT16EL05ISO	16	–	–	0,6	.024	0,4	.016	0,50	–	–	–	●	–
LT16EL075ISO	16	–	–	0,6	.024	0,6	.024	0,75	–	–	–	●	–
LT16EL10ISO	16	–	–	0,7	.027	0,7	.027	1,0	–	–	–	●	–
LT16EL125ISO	16	–	–	0,8	.031	0,9	.035	1,25	–	–	–	●	–
LT22EL35ISO	22	–	–	1,6	.063	2,3	.090	3,5	–	–	–	●	–



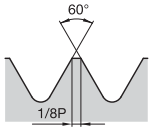
ISO Metric-External



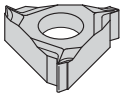


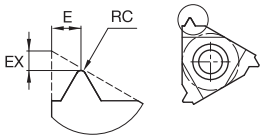
LT-ER-ISOCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER05ISOCB	16	–	–	1,2	.047	0,5	.020	0,50	–	–	●	●	–
LT16ER075ISOCB	16	–	–	1,2	.047	0,6	.024	0,75	–	–	●	●	–
LT16ER10ISOCB	16	–	–	0,7	.028	0,8	.031	1,0	–	–	●	●	–
LT16ER125ISOCB	16	–	–	0,7	.028	0,8	.031	1,25	–	–	●	●	–
LT16ER15ISOCB	16	–	–	0,7	.028	0,8	.031	1,5	–	–	●	●	–
LT16ER175ISOCB	16	–	–	1,2	.047	1,5	.059	1,75	–	–	●	●	–
LT16ER20ISOCB	16	–	–	1,2	.047	1,5	.059	2,0	–	–	●	●	–
LT16ER25ISOCB	16	–	–	1,2	.047	1,5	.059	2,5	–	–	–	●	–
LT16ER30ISOCB	16	–	–	1,3	.051	1,5	.059	3,0	–	–	●	●	–



American
UN-External



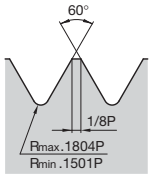


● first choice
○ alternate choice

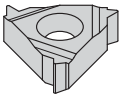
P		●	●	●
M		●	●	●
K		●	●	●
N		○	○	○
S		●	●	●
H		○		

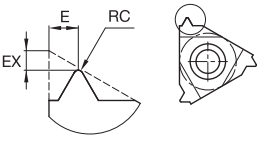
LT-ER-UNCB

catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER10UNCB	16	–	–	1,2	.047	1,5	.059	–	10	–	–	●	–
LT16ER12UNCB	16	–	–	1,2	.047	1,5	.059	–	12	–	●	●	–
LT16ER14UNCB	16	–	–	1,2	.047	1,5	.059	–	14	–	●	●	–
LT16ER16UNCB	16	–	–	0,8	.032	0,8	.031	–	16	–	●	●	–
LT16ER18UNCB	16	–	–	0,7	.028	0,8	.031	–	18	–	●	●	–
LT16ER20UNCB	16	–	–	0,7	.028	0,8	.031	–	20	–	●	●	–
LT16ER24UNCB	16	–	–	0,7	.028	0,8	.031	–	24	–	●	●	–
LT16ER28UNCB	16	–	–	0,7	.028	0,8	.031	–	28	–	●	●	–
LT16ER32UNCB	16	–	–	1,2	.047	0,5	.020	–	32	–	●	●	–
LT16ER8UNCB	16	–	–	1,3	.051	1,5	.059	–	8	–	●	●	–



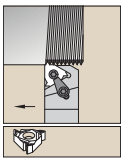
UNJ-External

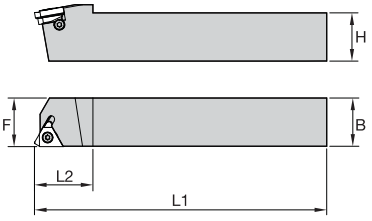




LT-ER/L-UNJ

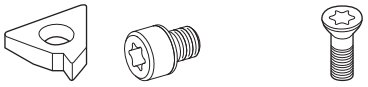
catalog number	insert size	RC mm	RC in	EX mm	EX in	E mm	E in	thread pitch mm	TPI	TPF	KC5010	KC5025	KU25T
right hand													
LT16ER12UNJ	16	–	–	1,1	.043	1,3	.051	–	12	–	●	●	–
LT16ER14UNJ	16	–	–	1,0	.039	1,2	.047	–	14	–	●	●	–
LT16ER16UNJ	16	–	–	0,9	.035	1,1	.043	–	16	–	●	●	–
LT16ER18UNJ	16	–	–	0,8	.031	1,0	.039	–	18	–	●	●	–
LT16ER20UNJ	16	–	–	0,8	.031	0,9	.035	–	20	–	●	●	–
LT16ER24UNJ	16	–	–	0,7	.027	0,8	.031	–	24	–	–	●	–
LT16ER28UNJ	16	–	–	0,7	.027	0,7	.027	–	28	–	–	●	–
LT16ER32UNJ	16	–	–	0,6	.024	0,7	.027	–	32	–	–	●	–
left hand													
LT16EL16UNJ	16	–	–	0,9	.035	1,1	.043	–	16	–	–	●	–



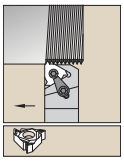


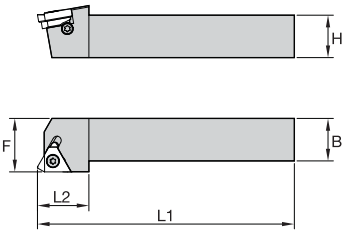


LSA



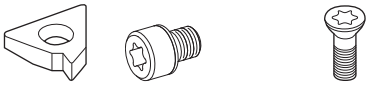
order number	catalog number	H	B	F	L1	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand											
1106230	**LSASR83**	.500	.500	.500	3.250	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281801	**LSASR103**	.625	.625	.630	5.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281802	**LSASR123**	.750	.750	.750	5.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281803	**LSASR163**	1.000	1.000	1.000	6.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281804	**LSASR164**	1.000	1.000	1.000	6.000	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1281805	**LSASR203**	1.250	1.250	1.250	7.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
left hand											
1281800	**LSASL83**	.500	.500	.500	3.250	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281796	**LSASL103**	.625	.625	.630	5.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281797	**LSASL123**	.750	.750	.750	5.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281798	**LSASL163**	1.000	1.000	1.000	6.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281799	**LSASL164**	1.000	1.000	1.000	6.000	LT22EL	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20



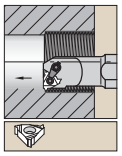




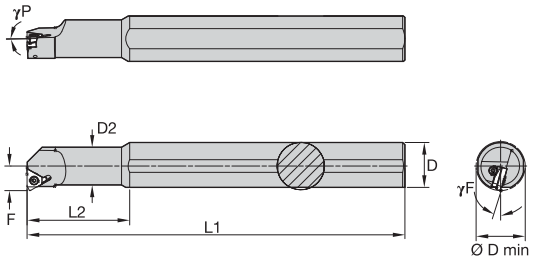
LSS



order number	catalog number	H	B	F	L1	LH	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand												
1281817	**LSSR123D**	.750	.750	1.000	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281818	**LSSR163D**	1.000	1.000	1.250	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1281819	**LSSR164D**	1.000	1.000	1.250	6.000	1.200	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
1281820	**LSSR203D**	1.250	1.250	1.500	6.000	1.000	LT16ER	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1192326	**LSSR204D**	1.250	1.250	1.500	6.000	1.200	LT22ER	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20
left hand												
1281812	**LSSL123D**	.750	.750	1.000	6.000	1.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281813	**LSSL163D**	1.000	1.000	1.250	6.000	1.000	LT16EL	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1281814	**LSSL164D**	1.000	1.000	1.250	6.000	1.200	LT22EL	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20



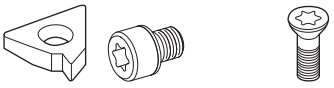
Steel shank without through coolant.





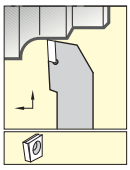


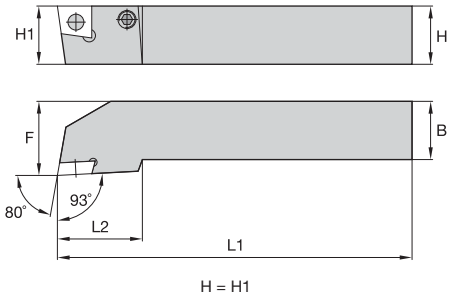
S-LSE



order number	catalog number	D	D min	D2	F	L1	L2	γF°	γP°	gage insert	shim	shim screw	Torx	insert screw	Torx
right hand															
1288896	**S0612LSER2**	.750	.500	.375	.280	7.000	1.000	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1288908	**S0812LSER2**	.750	.650	.500	.350	7.000	1.250	-15.0	-1.5	LT11NR	**–**	**–**	–	**SSN2T**	T8
1288921	**S1012LSER3**	.750	.800	.625	.460	7.000	1.500	-15.0	-1.5	LT16NR	**–**	**–**	–	**SN3TPKG**	T10
1288937	**S1212LSER3**	.750	.900	–	.510	7.000	–	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288961	**S1620LSER3**	1.250	1.200	1.000	.650	10.000	2.500	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288962	**S1620LSER4**	1.250	1.250	1.000	.710	10.000	2.500	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
1192442	**S2020LSER3**	1.250	1.450	–	.770	10.000	–	-15.0	-1.5	LT16NR	**SMYI3**	**SSY3T**	T10	**SSA3T**	T10
1288982	**S2020LSER4**	1.250	1.500	–	.850	10.000	–	-15.0	-1.5	LT22NR	**SMYI4**	**SSY4T**	T20	**SSA4T**	T20
left hand															
1288895	**S0612LSEL2**	.750	.500	.375	.280	7.000	1.000	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1288907	**S0812LSEL2**	.750	.650	.500	.350	7.000	1.250	-15.0	-1.5	LT11NL	**–**	**–**	–	**SSN2T**	T8
1288920	**S1012LSEL3**	.750	.800	.625	.460	7.000	1.500	-15.0	-1.5	LT16NL	**–**	**–**	–	**SN3TPKG**	T10
1288936	**S1212LSEL3**	.750	.900	–	.510	7.000	–	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1288958	**S1620LSEL3**	1.250	1.200	1.000	.650	10.000	2.500	-15.0	-1.5	LT16NL	**SMYE3**	**SSY3T**	T10	**SSA3T**	T10
1288960	**S1620LSEL4**	1.250	1.250	1.000	.710	10.000	2.500	-15.0	-1.5	LT22NL	**SMYE4**	**SSY4T**	T20	**SSA4T**	T20

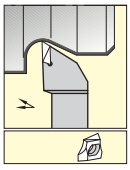
NOTE: Items listed without a shim are designed for a 1.5° inclination angle.

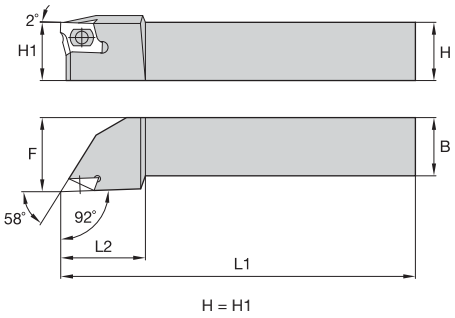




1.180...93° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
left hand								
1.18025L330	25	25	150,0	32,0	C2FIX15..L..	**112.404**	**121.616**	**170.003**





1.380...92° • Metric

catalog number	H	B	L1	F	gage insert	clamp stud	clamping screw	hex wrench
right hand								
1.38020R021	20	20	125,0	25,0	D4FIX..R..	**114.111**	**121.812**	**170.004**
1.38025R021	25	25	150,0	32,0	D4FIX..R..	**114.114**	**121.816**	**170.004**
left hand								
1.38025L021	25	25	150,0	32,0	D4FIX..L..	**114.114**	**121.816**	**170.004**