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841.142.250	G22-24	B105A06600 K10	A12	B105F05500 K10	A14	B210A16500HP KC7515	A29
841.142.320	G22-24	B105A06700 K10	A12	B105F06000 K10	A14	B210A17000HP KC7515	A29
841.142.420	G22-24	B105A06800 K10	A12	B105F06500 K10	A14	B210A17500HP KC7515	A29
841.142.550	G22	B105A06800 KC7210	A15	B105F06800 K10	A14	B210A18000HP KC7515	A29
841.142.720	G22-24	B105A07000 K10	A12	B105F07000 K10	A14	B210A18500HP KC7515	A29
841.142.940	G22, G24	B105A07000 KC7210	A15	B105F08000 K10	A14	B210A19000HP KC7515	A29
841.342.200	G23-24	B105A07100 K10	A12	B105F08500 K10	A14	B210A19250HP KC7515	A29
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843.009.000	G19, G25-26	B105A07600 K10	A12	B105F10200 K10	A14	B210F05000HP KC7515	A30
843.012.000	G25-26	B105A07800 K10	A12	B105F10500 K10	A14	B210F05100HP KC7515	A30
844.012.000	G25-26	B105A08000 K10	A12	B105F11000 K10	A14	B210F05500HP KC7515	A30
844.016.000	G25-26	B105A08000 KC7210	A15	B105F11500 K10	A14	B210F06000HP KC7515	A30
845.012.000	G25-26	B105A08100 K10	A12	B105F12000 K10	A14	B210F06500HP KC7515	A30
845.016.000	G25-26	B105A08300 K10	A12	B105F13000 K10	A14	B210F06800HP KC7515	A30
846.012.000	G25-26	B105A08400 K10	A12	B105F13500 K10	A14	B210F06900HP KC7515	A30
846.016.000	G25-26	B105A08500 K10	A12	B105F14000 K10	A14	B210F07000HP KC7515	A30
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847.016.000	G25-26	B105A08600 K10	A12	B125A06500 K715	A18	B210F07800HP KC7515	A30
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848.720.005	G26	B105A10000 KC7210	A15	B125A11000 K715	A18	B210F10500HP KC7515	A30
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KSEM210R7WN25M	B71	KSEM2550HPM KC7235	B38	KSEM295R5WN32M	B70	KSEM361R1WD50M	B65
KSEM2115HPLM KC7320	B44	KSEM2550PCM KC7135	B49	KSEM295R7WN32M	B71	KSEM361R3WD50M	B68
KSEM2133HPLM KC7320	B44	KSEM2550R10WN32M	B73	KSEM3000HPGM KC7315	B42	KSEM361R5WD50M	B70
KSEM2150HPGM KC7315	B41	KSEM255R3WN32M	B68	KSEM3000HPLM KC7320	B45	KSEM3650HPGM KC7315	B42
KSEM2150HPLM KC7320	B44	KSEM255R5WN32M	B70	KSEM3000HPM KC7235	B39	KSEM3700HPGM KC7315	B42
KSEM2150HPM KC7235	B38	KSEM255R7WN32M	B71	KSEM3000HPM KC7315	B39	KSEM3700HPLM KC7320	B45
KSEM2150PCM KC7135	B48	KSEM2565HPLM KC7320	B44	KSEM3000PCM KC7135	B49	KSEM3700HPM KC7235	B39
KSEM215R10WN25M	B72	KSEM2600HPGM KC7315	B41	KSEM300R10WN32M	B73	KSEM3700HPM KC7315	B39
KSEM215R3WN25M	B67	KSEM2600HPLM KC7320	B44	KSEM300R3WN32M	B68	KSEM370R3WD50M	B68
KSEM215R5WN25M	B69	KSEM2600HPM KC7235	B38	KSEM300R5WN32M	B70	KSEM370R5WD50M	B70
KSEM215R7WN25M	B71	KSEM2600PCM KC7135	B49	KSEM300R7WN32M	B71	KSEM3750HPGM KC7315	B42
KSEM2200HPGM KC7315	B41	KSEM2600HPM KC7315	B38	KSEM301R10WN32M	B73	KSEM3750HPLM KC7320	B45
KSEM2200HPLM KC7320	B44	KSEM2600PCM KC7135	B49	KSEM301R1WN32F45M	B66	KSEM3750HPM KC7235	B39
KSEM2200HPM KC7235	B38	KSEM260R10WN32M	B73	KSEM301R1WN32M	B65	KSEM3750HPM KC7315	B39
KSEM2200HPM KC7315	B38	KSEM260R3WN32M	B68	KSEM301R5WN32M	B70	KSEM3800HPGM KC7315	B42
KSEM2200PCM KC7135	B48	KSEM260R5WN32M	B70	KSEM3050HPGM KC7315	B45	KSEM3800HPLM KC7320	B45
KSEM220R10WN25M	B72	KSEM260R7WN32M	B71	KSEM3050HPLM KC7320	B45	KSEM3800HPM KC7235	B39
KSEM220R3WN25M	B67	KSEM261R10WN32M	B73	KSEM3050HPM KC7235	B39	KSEM3800HPM KC7315	B39
KSEM220R5WN25M	B69	KSEM261R1WN32F45M	B66	KSEM3050HPM KC7315	B39	KSEM380R3WD50M	B68
KSEM220R7WN25M	B71	KSEM261R1WN32M	B65	KSEM3050PCM KC7135	B49	KSEM380R5WD50M	B70
KSEM221R10WN25M	B72	KSEM261R5WN32M	B70	KSEM305R3WN32M	B68	KSEM3850HPGM KC7315	B42
KSEM221R1WN25F45M	B66	KSEM2650HPGM KC7315	B41	KSEM305R5WN32M	B70	KSEM3850HPM KC7315	B39
KSEM221R1WN25M	B65	KSEM2650HPLM KC7320	B44	KSEM305R7WN32M	B71	KSEM3900HPGM KC7315	B42
KSEM221R5WN25M	B69	KSEM2650HPM KC7235	B38	KSEM3100HPGM KC7315	B42	KSEM3900HPLM KC7320	B45
KSEM2250HPGM KC7315	B41	KSEM2650HPM KC7315	B38	KSEM3100HPLM KC7320	B45	KSEM3900HPM KC7235	B39
KSEM2250HPLM KC7320	B44	KSEM2650PCM KC7135	B49	KSEM3100HPM KC7235	B39	KSEM3900HPM KC7315	B39
KSEM2250HPM KC7235	B38	KSEM265R10WN32M	B73	KSEM3100HPM KC7315	B39	KSEM390R3WD50M	B68
KSEM2250HPM KC7315	B38	KSEM265R3WN32M	B68	KSEM3100PCM KC7135	B49	KSEM390R5WD50M	B70
KSEM2250PCM KC7135	B48	KSEM265R5WN32M	B70	KSEM310R10WN32M	B73	KSEM3950HPGM KC7315	B42
KSEM225R10WN25M	B72	KSEM265R7WN32M	B71	KSEM310R3WN32M	B68	KSEM3950HPLM KC7320	B45
KSEM225R3WN25M	B67	KSEM2670HPLM KC7320	B45	KSEM310R5WN32M	B70	KSEM3950HPM KC7315	B39
KSEM225R5WN25M	B69	KSEM2700HPGM KC7315	B41	KSEM310R7WN32M	B71	KSEM4000HPGM KC7315	B42
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KSEM227R7HPLM KC7320	B44	KSEM2700HPM KC7235	B38	KSEM3150HPLM KC7320	B45	KSEM4000HPM KC7235	B39
KSEM2300HPGM KC7315	B41	KSEM2700HPM KC7315	B38	KSEM3150HPM KC7235	B39	KSEM4000HPM KC7315	B39
KSEM2300HPLM KC7320	B44	KSEM2700PCM KC7135	B49	KSEM3150HPM KC7315	B39	KSEM4000PCM KC7135	B49
KSEM2300HPM KC7235	B38	KSEM270R10WN32M	B73	KSEM3150PCM KC7135	B49	KSEM400R3WD50M	B68
KSEM2300HPM KC7315	B38	KSEM270R3WN32M	B68	KSEM315R3WN32M	B68	KSEM400R5WD50M	B70
KSEM2300PCM KC7135	B48	KSEM270R5WN32M	B70	KSEM315R5WN32M	B71	KT15	G54, G66, G69, G70
KSEM230R10WN25M	B72	KSEM270R7WN32M	B71	KSEM315R7WN32M	B71	KT27	G52, G56-57, G66, G68, G71
KSEM230R3WN25M	B67	KSEM2750HPGM KC7315	B41	KSEM3200HPGM KC7315	B42	KT8	G51, G66
KSEM230R5WN25M	B69	KSEM2750HPLM KC7320	B45	KSEM3200HPLM KC7320	B45	KTIP03125HP KC7315	B11, B15-20
KSEM230R7WN25M	B71	KSEM2750HPM KC7235	B38	KSEM3200HPM KC7235	B39	KTIP0313R3SS038	B21
KSEM2350HPGM KC7315	B41	KSEM2750HPM KC7315	B38	KSEM3200HPM KC7315	B39	KTIP0313R5SS038	B22
KSEM2350HPLM KC7320	B44	KSEM2750PCM KC7135	B49	KSEM3200PCM KC7135	B49	KTIP0313R8SS038	B23
KSEM2350HPM KC7235	B38	KSEM275R10WN32M	B73	KSEM320R10WN32M	B73	KTIP03214HP KC7315	B11, B15, B18, B46
KSEM2350HPM KC7315	B38	KSEM275R3WN32M	B68	KSEM320R3WN32M	B68	KTIP03230HP KC7315	B11, B15, B18, B46
KSEM2350PCM KC7135	B48	KSEM275R5WN32M	B70	KSEM320R5WN32M	B70	KTIP03281HP KC7315	B11, B15, B18, B46
KSEM235R10WN25M	B72	KSEM275R7WN32M	B71	KSEM320R7WN32M	B71	KTIP03320HP KC7315	B11, B15, B18, B46
KSEM235R3WN25M	B67	KSEM2800HPGM KC7315	B41	KSEM321R1WD50F45M	B66	KTIP0335R3SS038	B21
KSEM235R5WN25M	B69	KSEM2800HPLM KC7320	B45	KSEM321R1WD50M	B65	KTIP0335R5SS038	B22
KSEM235R7WN25M	B71	KSEM2800HPM KC7235	B38	KSEM321R3WD50M	B68	KTIP0335R8SS038	B23
KSEM2400HPGM KC7315	B41	KSEM2800HPM KC7315	B38	KSEM321R5WD50M	B70	KTIP03390HP KC7315	B11, B15, B18, B46
KSEM2400HPLM KC7320	B44	KSEM2800PCM KC7135	B49	KSEM3250HPGM KC7315	B42	KTIP03438HP KC7315	B11, B15, B18, B46
KSEM2400HPM KC7235	B38	KSEM280R10WN32M	B73	KSEM3250HPM KC7235	B39	KTIP03480HP KC7315	B11, B15, B18, B46
KSEM2400HPM KC7315	B38	KSEM280R3WN32M	B68	KSEM3250HPM KC7315	B39	KTIP0354R3SS038	B21
KSEM2400PCM KC7135	B48	KSEM280R5WN32M	B70	KSEM3300HPGM KC7315	B45	KTIP0354R5SS038	B22
KSEM240R10WN25M	B72	KSEM280R7WN32M	B71	KSEM3300HPLM KC7320	B42	KTIP0354R8SS038	B23
KSEM240R3WN25M	B67	KSEM2810HPLM KC7320	B45	KSEM3300HPM KC7235	B39	KTIP03580HP KC7315	B11, B15, B18, B46
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KSEM240R7WN25M	B71	KSEM281R1WN32F45M	B66	KSEM330R3WD50M	B68	KTIP03680HP KC7315	B11, B15, B18, B46
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KSEM241R1WN32F45M	B66	KSEM281R5WN32M	B70	KSEM3350HPGM KC7315	B42	KTIP0374R5SS044	B21
KSEM241R1WN32M	B65	KSEM2850HPGM KC7315	B41	KSEM3350HPM KC7235	B39	KTIP0374R5SS038	B22
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KSEM2450HPGM KC7315	B41	KSEM2850HPM KC7235	B38	KSEM3400HPLM KC7320	B45	KTIP0374R8SS038	B23
KSEM2450HPLM KC7320	B44	KSEM2850HPM KC7315	B38	KSEM3400HPM KC7235	B39	KTIP0374R8SS044	B23
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KSEM2450HPM KC7315	B38	KSEM285R10WN32M	B73	KSEM340R3WD50M	B68	KTIP03763HP KC7315	B11, B15, B18, B46
KSEM2450PCM KC7135	B49	KSEM285R3WN32M	B68	KSEM340R5WD50M	B70	KTIP03770HP KC7315	B11, B15, B18, B46
KSEM245R10WN32M	B73	KSEM285R5WN32M	B70	KSEM3450HPGM KC7315	B42	KTIP03820HP KC7315	B11, B15, B18, B46
KSEM245R3WN32M	B68	KSEM285R7WN32M	B71	KSEM3450HPM KC7235	B39	KTIP03860HP KC7315	B11, B15, B18, B46
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KSEM245R7WN32M	B71	KSEM2900HPLM KC7320	B45	KSEM3500HPGM KC7315	B45	KTIP03946HP KC7315	B11, B15, B18, B46
KSEM2500HPGM KC7315	B41	KSEM2900HPM KC7235	B38	KSEM3500HPM KC7320	B42	KTIP03946HP KC7315	B11, B15, B18, B46
KSEM2500HPLM KC7320	B44	KSEM2900HPM KC7315	B38	KSEM3500HPM KC7235	B39	KTIP0394R3SS044	B21
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KSEM2500HPM KC7315	B38	KSEM290R10WN32M	B73	KSEM350R3WD50M	B68	KTIP0394R8SS044	B23
KSEM2500PCM KC7135	B49	KSEM290R3WN32M	B68	KSEM350R5WD50M	B70	KTIP03970HP KC7315	B11, B15, B18, B46
KSEM2507HPLM KC7320	B44	KSEM290R5WN32M	B70	KSEM3550HPGM KC7315	B42	KTIP04040HP KC7315	B11, B15, B19, B46
		KSEM290R7WN32M	B71	KSEM3550HPM KC7315	B39	KTIP04062HP KC7315	B11, B15, B19, B46
		KSEM2950HPGM KC7315	B42	KSEM3600HPGM KC7315	B42	KTIP04130HP KC7315	B12, B16, B19, B46
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KTIP1900HPM KC7315	B14	R40FBHSRB	G21	SPGX060304RHP KC7140	H6	SS100KR32043	G81
KTIP190R3SCF25M	B27	R44FBHSRB	G21	SPGX060304RHP KC7815	H6	SS125DS2118	G114
KTIP190R3SS20M	B24	R48FBHS06	G19	SPGX060304RHP KC7815	H6	SS125DS3118	G114
KTIP190R5SCF25M	B28	R51FBHS06	G19	SPGX070304FP KC7210	H6	SS125KR32023	G81
KTIP190R5SS20M	B25	R51FBHS06LF	G19	SPGX070304FP KC7215	H6	SS125KR50033	G81
KTIP190R8SCF25M	B29	R51FBHSRB	G21	SPGX070304FP KC7815	H6	SS150DS4130	G114
KTIP190R8SS20M	B26	R53FBHSRB	G21	SPGX070304MD KC7815	H6	SS150DS5130	G114
KTIP1910HPM KC7315	B14	R60FBHSRB	G21	SPGX070304RHP KC7140	H6	SS200DS6148	G114
KTIP1920HPM KC7315	B14	R64FBHSRB	G21	SPGX070304RHP KC7215	H6	SS200DS7148	G114
KTIP1930HPM KC7315	B14	R65FBHS06	G19	SPGX070304RHP KC7815	H6	SS225DS8148	G114
KTIP1940HPM KC7315	B14	R67FBHS06	G19	SPHX060202R20 KC7215	H7	SSE075FBHS24	G18
KTIP1950HPM KC7315	B14	R67FBHS09	G19	SPHX060202R21 KC7215	H8	SSE100FBHS31	G18
KTIP1960HPM KC7315	B14	R67FBHS09LF	G19	SPHX060204R20 KC7140	H7	SSI25FBHS40	G18
KTIP1970HPM KC7315	B14	R75FBHSRB	G21	SPHX060204R20 KC7215	H7	SSF150HTS130239	E95
KTIP1980HPM KC7315	B14	R85FBHS06	G19	SPHX060204R21 KC7210	H8	SSF150HTS130664	E95
KTIP1990HPM KC7315	B14	R85FBHS09	G19	SPHX060204R21 KC7215	H8	SSF150HTS131114	E95
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KTIP200R5SCF25M	B28	RS1605	G30	SPHX060208R20 KC7215	H7	SSF200HTS131114	E95
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KTIP200R8SS25M	B26	RS1608	G30	SPHX070304R20 KC7140	H7	SSF200HTS160714	E95
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KTIP2070HPM KC7315	B14	SEF080100RHSK63AM	C22	SPHX070308R20 KC7215	H7	SSF200HTS270297	E95
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KTIP2090HPM KC7315	B14	SEF100120RHSK63AM	C22	SPHX070310R20 KC7215	H7	SSF200HTS271922	E95
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MB115RBHT12F	G25	SEF120140RHSK63AM	C22	SPHX070312R20 KC7215	H7	SSF200HTS320305	E95
MB115RBHT16LF	G25	SEF120140RSS125M	C20	SPHX090304R20 KC7140	H7	SSF200HTS320805	E95
MB115RBHT16LK	G25	SEF140160RHSK63AM	C22	SPHX090304R20 KC7215	H7	SSF200HTS321305	E95
MB24RBHT06F	G25	SEF140160RSS125M	C20	SPHX090304R21 KC7210	H8	SSF200HTS321805	E95
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MB30RBHT06F	G25	SEF160180RSS125M	C20	SPHX090304R22 KM1	H9	SSF250HTS401055	E95
MB30RBHT06K	G25	SEF180200RSS125M	C20	SPHX090308R20 KC7215	H7	SSF250HTS401555	E95
MB40RBHT09F	G25	SEF218250RSS075	C19	SPHX090308R21 KC7215	H8	SSF250HTS402555	E95
MB40RBHT09K	G25	SEF265312RSS075	C19	SPHX090310R20 KC7215	H7	SSF300HTS500413	E95
MB50RBHT09F	G25	SEF328375RSS075	C19	SPHX090310R21 KC7215	H8	SSF300HTS501313	E95
MB50RBHT09K	G25	SEF390437RSS100	C19	SPHX090312R20 KC7215	H7	SSF300HTS502113	E95
MB66RBHT12F	G25	SEF445350RSS100	C19	SPHX090312R21 KC7215	H8	SSF300HTS503113	E95
MB66RBHT12K	G25	SEF500562RSS100	C19	SPHX090316R20 KC7215	H7	STB115RBHT16LF	G26
MB66RBHT12LF	G25	SEF562625RSS125	C19	SPHX090316R21 KC7215	H8	STB24RBHT06F	G26
MB66RBHT12LK	G25	SEF625687RSS125	C19	SPHX120404R20 KC7140	H7	STB30RBHT06F	G26
MB87RBHT12F	G25	SEF687750RSS125	C19	SPHX120404R20 KC7215	H7	STB40RBHT09F	G26
MB87RBHT12K	G25	SEF750812RSS125	C19	SPHX120404R21 KC7210	H8	STB50RBHT09F	G26
MB87RBHT16LF	G25	SEF812875RSS150	C19	SPHX120404R21 KC7215	H8	STB66RBHT12F	G26
MB87RBHT16LK	G25	SEF875937RSS150	C19	SPHX120404R22 KM1	H9	STB66RBHT12F	G26
MS1023	G116-117	SEF9371010RSS150	C19	SPHX120408R20 KC7215	H7	STB87RBHT12F	G26
MS1027	G116-117	SF075FBHS24	G17	SPHX120408R21 KC7215	H8	STB87RBHT16LF	G26
MS1085PKG	G33-34	SF075RBHT24	G24	SPHX120410R20 KC7215	H7	SYB115RBHT16LF	G26
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MS1153	B53-54, B66, G52, G55, G57, G59, G66, G69, G72	SF100FBHS31	G17	SPHX120412R20 KC7215	H7	SYB30RBHT06F	G26
MS1155	B53-54, B66	SF100FBHS51	G17	SPHX120412R21 KC7215	H8	SYB40RBHT09F	G26
MS1375	G66, G69, G72	SF100RBHT30	G24	SPHX120416R20 KC7215	H7	SYB50RBHT09F	G26
MS1454	G55, G57	SF100RBHT50	G24	SPHX120416R21 KC7215	H8	SYB66RBHT12F	G26
MS1896PKG	G66	SF125FBHS40	G17	SPHX120420R20 KC7215	H7	SYB66RBHT12LF	G26
MS1897	G52, G66	SF125FBHS67	G17	SPHX120420R21 KC7215	H8	SYB87RBHT12F	G26
MS1898PKG	G68, G71	SF125RBHT40	G24	SPHX150504R22 KM1	H9	SYB87RBHT16LF	G26
MS2005PKG	G51, G66	SF125RBHT66	G24	SPHX150508R20 KC7215	H7	T320M060X100R6H KC7542	D3
MS2006PKG	G51-52, G66	SF150FBHT01660	G29	SPHX150512R20 KC7215	H7	T320M080X125R6H KC7542	D3
PKG0002	G35	SF150FBHS87	G17	SPHX150516R20 KC7215	H7	T320M100X150R6H KC7542	D3
PKG0010	G32	SF150RBHT87	G24	SPHX150520R20 KC7215	H7	T320M120X175R6H KC7542	D3
PKG0011	G31	SF200FBHS116	G17	SPPX09T308FP KC7210	H6	T320M140X200R6H KC7542	D3
PKG1402	G32	SF200RBHT115	G24	SPPX09T308FP KC7215	H6	T320M160X200R6H KC7542	D3
PKG1565	G33-34	SNGH432 KC850	H23	SPPX09T308FP KC7815	H6	T320MF120X150R6H KC7542	D3
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A large grid of graph paper with a yellow header bar at the top. The grid consists of small squares and is intended for taking notes.

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 Kennametal's 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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