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Class	Feature	Type	Appearance	No. of Teeth	Item	App.	EDP. No.	Page	
ZAMUS STAR	* Hardened Steels (~ HRC 70) * High Speed Cutting	SQUARE		2 FLUTE	LONG NECK	HSC	ZSLNS20	37	
				4 FLUTE	LONG NECK	HSC	ZSLNS40	42	
		BALL		2 FLUTE	LONG NECK	HSC	ZSLNB	44	
		RADIUS		2 FLUTE	LONG NECK & BACK DRAFT TYPE	HSC	ZSLNR	48	
				2 FLUTE	TAPER NECK & BACK DRAFT TYPE	HSC	ZSTNB20	52	
		BALL		3 FLUTE	TAPER NECK & BACK DRAFT TYPE	HSC	ZSTNB30	56	
				2 FLUTE	TAPER NECK & BACK DRAFT TYPE	HSC	ZSTNR	57	
		SQUARE		4 FLUTE	LONG CUT LENGTH BROKEN INDEX	HSC	ZS124	59	
		SQUARE & RADIUS		4 FLUTE	CORNER RADIUS BROKEN INDEX	HSC	ZS1(2)04	60	
				4 FLUTE	CORNER RADIUS BROKEN INDEX	HSC	ZS204	61	
		* High speed & High feed rates	RADIUS		4 FLUTE	STUB CUT LENGTH, with EXTENDED NECK	HSC	ZSPM4	63
		* Hardened Steels (~ HRC 70) * High Speed Cutting	BALL		2 FLUTE	STUB CUT LENGTH, BALL NOSE with EXTENDED NECK	HSC	DB702	64
					2 FLUTE	REGULAR LENGTH, BALL NOSE	HSC	DB712	65
					3 FLUTE	BALL NOSE for FINISHING MOLD & DIE	HSC	DB703	66
				4 FLUTE	TAPER NECK for FINISHING MOLD & DIE	HSC	DB734	67	
	RADIUS			2 FLUTE	STUB CUT LENGTH, with EXTENDED NECK	HSC	ZE702	68	
				4 FLUTE	STUB CUT LENGTH, with EXTENDED NECK	HSC	ZE704	69	
				4&6 FLUTE	FINISHING for MOLD & DIE	HSC	ZE724(6)	70	
				2 FLUTE	STUB CUT LENGTH, CORNER RADIUS with EXTENDED NECK	HSC	ZR702	71	
				2 FLUTE	CORNER RADIUS with LONG SHANK	HSC	ZR732	76	
				4 FLUTE	STUB CUT LENGTH, CORNER RADIUS with EXTENDED NECK	HSC	ZR704	78	
				4 FLUTE	45° HELIX FINISHING MOLD & DIE	HSC	ZR714	81	
				4 FLUTE	STUB CUT LENGTH, CORNER RADIUS with LONG SHANK	HSC	ZR724	82	
				4 FLUTE	CORNER RADIUS with LONG SHANK	HSC	ZR734	83	
				6 FLUTE	45° HELIX STUB CUT LENGTH, CORNER RADIUS with EXTENDED NECK	HSC	ZR706	85	
				6 FLUTE	45° HELIX, LONG SHANK, CORNER RADIUS	HSC	ZR736	86	
			SQUARE		2 FLUTE	35° HELIX REGULAR LENGTH	HSC	ZE712	87
				4 FLUTE	45° HELIX REGULAR LENGTH	HSC	ZE714	88	
				6 FLUTE	50° HELIX REGULAR LENGTH	HSC	ZE716	89	
NEO CLASSIC X-STAR	* High performance & High efficiency (~HRC45)		SQUARE		5 FLUTE	STUB CUT LENGTH		XE505A	93
					5 FLUTE	REGULAR CUT LENGTH		XE515A	94
		RADIUS		5 FLUTE	STUB CUT LENGTH CORNER RADIUS		XR505A	95	
				5 FLUTE	REGULAR CUT LENGTH CORNER RADIUS		XR515A	96	



































	Carbon Steels (S45C,S55C...) ~ HB225	Alloy Steels (SCM,SK...) HB225~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
				~HRc55 SKD61	HRc55~ SKD11					
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ENDMILL SERIES METRIC SIZE

Class	Feature	Type	Appearance	No. of Teeth	Item	App.	EDP. No.	Page
NEO CLASSIC X-STAR	* High performance & High efficiency (~HRc45)	SQUARE		5 FLUTE	REGULAR CUT LENGTH WITH EXTENDED NECK		XR525A	97
		CHAMFER		5 FLUTE	REGULAR CUT LENGTH WITH LONG EXTENDED NECK		XR535A	98
		SQUARE		5 FLUTE	REGULAR CUT LENGTH		XE505	99
				5 FLUTE	LONG CUT LENGTH		XE515	100
		RADIUS		5 FLUTE	REGULAR CUT LENGTH CORNER RADIUS		XR505	101
		BALL		4 FLUTE	REGULAR LENGTH, BALL NOSE		XXB504	102
		SQUARE		4 FLUTE	REGULAR LENGTH		XCE504	103
				4 FLUTE	REGULAR LENGTH		XCC504	104
				4 FLUTE	REGULAR LENGTH		XCR504	105
				3 FLUTE	REGULAR LENGTH		XCE503	106
				3 FLUTE	REGULAR LENGTH		XCC503	107
				3 FLUTE	REGULAR LENGTH		XCR503	108
				4 FLUTE	REGULAR LENGTH		XE504	109
		RADIUS		4 FLUTE	REGULAR LENGTH		XR504	110
		CHAMFER		4 FLUTE	STUB CUT LENGTH with EXTENDED NECK		XE514	111
				4 FLUTE	STUB CUT LENGTH with EXTENDED LONG NECK		XE524	112
		RADIUS		4 FLUTE	REGULAR LENGTH		XR514	113
ZAMUS CLASSIC	* Hardened Steels (~ HRc 55) * High Speed Cutting * General Speed Cutting	BALL		2 FLUTE	SHORT LENGTH, BALL NOSE	HSC	DB402	118
				2 FLUTE	15° HELIX STUB CUT LENGTH, BALL NOSE with EXTENDED NECK	HSC	DB412	119
				2 FLUTE	LONG LENGTH, BALL NOSE	HSC	DB512	120
				4 FLUTE	LONG LENGTH, BALL NOSE	HSC	DB514	121
				2 FLUTE	STUB CUT LENGTH, BALL NOSE with EXTENDED NECK	HSC	DB502	122
				2 FLUTE	EXTENDED NECK-LONG SHANK	HSC	DB522	123
				2 FLUTE	MMC-SPHERE TYPE	HSC	DB532	124
				4 FLUTE	MMC-SPHERE TYPE	HSC	DB534	125
		SQUARE		2 FLUTE	BALL NOSE with TAPER NECK	HSC	DB54(5)2	126
				2 FLUTE	REGULAR LENGTH	HSC	ZE502	127
				4 FLUTE	REGULAR LENGTH	HSC	ZE504	128
				3 FLUTE	REGULAR LENGTH	HSC	ZE503	129
				6 FLUTE	REGULAR & LONG LENGTH	HSC	ZE506	130
				2 FLUTE	MEDIUM LENGTH	HSC	ZM502	131
				4 FLUTE	MEDIUM LENGTH	HSC	ZM504	132
	2 FLUTE	MEDIUM CUT, LONG SHANK TYPE	HSC	ZM522	133			

	Carbon Steels (S45C,S55C...) ~ HB225	Alloy Steels (SCM,SK...) HB225~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
				~HRc55 SKD61	HRc55~ SKD11					
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ENDMILL SERIES METRIC SIZE

Class	Feature	Type	Appearance	No. of Teeth	Item	App.	EDP. No.	Page
ZAMUS CLASSIC	* Hardened Steels (~ HRC 55) * High Speed Cutting * General Speed Cutting	SQUARE		4 FLUTE	MEDIUM CUT, LONG SHANK TYPE	HSC	ZM524	134
				2 FLUTE	LONG LENGTH	HSC	ZE522	135
				4 FLUTE	LONG LENGTH	HSC	ZE524	136
				4 FLUTE	EXTRA LONG LENGTH		ZE534	137
				2 FLUTE	35° HELIX REGULAR LENGTH	HSC	ZE512	138
				4 FLUTE	45° HELIX REGULAR LENGTH	HSC	ZE514	139
				6 FLUTE	50° HELIX REGULAR LENGTH	HSC	ZE516	140
		LONG NECK SQUARE		2 FLUTE	for RIB PROCESSING	HSC	ZE612	141
		LONG NECK BALL		2 FLUTE	for RIB PROCESSING	HSC	DB612	145
		RADIUS		2 FLUTE	STUB CUT LENGTH, CORNER RADIUS with EXTENDED NECK		ZR502	149
				4 FLUTE	STUB CUT LENGTH, CORNER RADIUS with EXTENDED NECK		ZR504	150
				2 FLUTE	REGULAR LENGTH, CORNER RADIUS		ZR512	151
				4 FLUTE	REGULAR LENGTH, CORNER RADIUS		ZR514	152
				2 FLUTE	LONG LENGTH, CORNER RADIUS		ZR522	153
				4 FLUTE	LONG LENGTH, CORNER RADIUS		ZR524	154
		BALL		MULTIPLE	TAPER BALL, RIB PROCESSING	HSC	TPRB4-050	155
				MULTIPLE	TAPER BALL, RIB PROCESSING	HSC	TPRB4-075	156
				MULTIPLE	TAPER BALL, RIB PROCESSING	HSC	TPRB4-100	157
				MULTIPLE	TAPER BALL, RIB PROCESSING	HSC	TPRB4-150	159
				MULTIPLE	TAPER BALL, RIB PROCESSING	HSC	TPRB4-200	161
		SQUARE		MULTIPLE	TAPER, RIB PROCESSING	HSC	TPRE4-050	163
				MULTIPLE	TAPER, RIB PROCESSING	HSC	TPRE4-075	165
				MULTIPLE	TAPER, RIB PROCESSING	HSC	TPRE4-100	167
				MULTIPLE	TAPER, RIB PROCESSING	HSC	TPRE4-150	169
				MULTIPLE	TAPER, RIB PROCESSING	HSC	TPRE4-200	171
				MULTIPLE	TAPER, RIB PROCESSING	HSC	TPRE4-300	173
		TAPER		3 FLUTE	TAPER END MILL		TE503	174
		TAPER BALL		3 FLUTE	TAPER BALL END MILL		TB503	175
				4 FLUTE	TAPER BALL END MILL		TB504	176
		ROUGHING		3-6 FLUTE	ROUGHING END MILL		ZF60	177
				3-5 FLUTE	ROUGHING END MILL - FINE PITCH		ZF61	178
				3 FLUTE	Z - AXIS ROUGHING END MILL		PK503	179























Carbon Steels (S45C,S55C...) ~ HB225	Alloy Steels (SCM,SK...) HB225~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	HRc55~ SKD11					
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ENDMILL SERIES METRIC SIZE

Class	Feature	Type	Appearance	No. of Teeth	Item	App.	EDP. No.	Page
ZAMUS THUNDER	* Hardened Steels (~ HRC 45) * High Speed Cutting * General Speed Cutting	BALL		2 FLUTE	LONG LENGTH, BALL NOSE		DB312	183
				2 FLUTE	BALL NOSE with TAPER NECK		DB342	184
		SQUARE		2 FLUTE	REGULAR LENGTH		ZE302	185
				4 FLUTE	REGULAR LENGTH		ZE304	186
				2 FLUTE	LONG LENGTH		ZE322	187
				4 FLUTE	LONG LENGTH		ZE324	188
		RADIUS		2 FLUTE	CORNER RADIUS LONG LENGTH		ZR322	189
				4 FLUTE	CORNER RADIUS LONG LENGTH		ZR324	190
				4 FLUTE	45° HELIX STUB CUT LENGTH, CORNER RADIUS, EXTENDED NECK		ZR304H	191
				4 FLUTE	45° HELIX STUB CUT LENGTH, CORNER RADIUS, LONG SHANK		ZR324H	192
	* Hardened Steels (~ HRC 45) * High Speed Cutting * General Speed Cutting * Economic Type	SQUARE		2 FLUTE	REGULAR LENGTH		TX302	193
				4 FLUTE	REGULAR LENGTH		TX304	194
				4 FLUTE	45° HELIX, REGULAR LENGTH		TX304H	195
		BALL		2 FLUTE	REGULAR LENGTH, BALL NOSE		TXB302	196
				4 FLUTE	REGULAR LENGTH, BALL NOSE		TXB304	197
		SQUARE		2 FLUTE	SHORT LENGTH		TX202	198
	* Hardened Steels (~ HRC 45) * High Speed Cutting * General Speed Cutting * Economic Type	SQUARE		2 FLUTE	LONG LENGTH		TX222	199
				4 FLUTE	SHORT LENGTH		TX204	200
				4 FLUTE	LONG LENGTH		TX224	201
		BALL		2 FLUTE	REGULAR LENGTH, BALL NOSE		TXB202	202
			2 FLUTE	LONG LENGTH, BALL NOSE		TXB222	203	
			2 FLUTE	LONG REACH, BALL NOSE		TXB232	204	
			4 FLUTE	REGULAR LENGTH, BALL NOSE		TXB204	205	
ZAMUS SUS MATE	* Stainless Steels * Titanium * Inconell	BALL		2 FLUTE	BALL NOSE REGULAR & LONG LENGTH		DS502	208
		SQUARE		3 FLUTE	REGULAR LENGTH		SM503	209
				4 FLUTE	REGULAR LENGTH		SM504	210
		ROUGHING		4~6 FLUTE	ROUGHING END MILL		ZF62	211
ZAMUS COPPER-MATE	* Copper & non-ferrous material	BALL		2 FLUTE	STUB CUT with EXTENDED NECK		BC502	214
		RADIUS		2 FLUTE	STUB CUT with EXTENDED NECK		RC502	215
ZAMUS GRA-MATE	* Graphite & non-ferrous material	BALL		2 FLUTE	DIAMOND COATING BALL NOSE		G	218
		RADIUS		2 FLUTE	DIAMOND COATING END MILL		GE	221

	Carbon Steels (S45C,S55C...) ~ HB225	Alloy Steels (SCM,SK...) HB225~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
				~HRc55 SKD61	HRc55~ SKD11					
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ENDMILL SERIES METRIC SIZE

Class	Feature	Type	Appearance	No. of Teeth	Item	App.	EDP. No.	Page
ZAMUS AL-MATE	* Aluminum & non-ferrous material	SQUARE		2 FLUTE	LONG LENGTH - for Aluminum		AE302	224
				3 FLUTE	LONG & EXTRA LONG LENGTH		AE30(2)3	225
		BALL		2 FLUTE	CORNER RADIUS		AR302	227
				3 FLUTE	CORNER RADIUS		AR303	228
		RADIUS		2 FLUTE	STUB CUT BALL NOSE		AB312	229
				2 FLUTE	CORNER RADIUS with D.L.C. COATED		AR502	230
		ROUGHING		3 FLUTE	CORNER RADIUS with D.L.C. COATED		AR503	231
				3 FLUTE	ROUGHING END MILL - for Aluminum		AF303	232
STANDARD END MILL	* General & Multi-purpose	SQUARE		2 FLUTE	REGULAR LENGTH		E302	235
				4 FLUTE	REGULAR LENGTH		E304	237
		BALL		2 FLUTE	BALL NOSE LONG LENGTH		B302	238
				2 FLUTE	BALL NOSE EXTRA LONG LENGTH		BL422	239
				4 FLUTE	BALL NOSE LONG LENGTH		B304	240
		SQUARE		2 FLUTE	LONG LENGTH		E322	241
				4 FLUTE	LONG LENGTH		E324	242
				2 FLUTE	REGULAR LENGTH - BRAZED TYPE		EB302	243
				4 FLUTE	REGULAR LENGTH - BRAZED TYPE		EB304	244
				2 FLUTE	LONG LENGTH - BRAZED TYPE		EB322	245
				4 FLUTE	LONG LENGTH - BRAZED TYPE		EB324	246
		BALL		2 FLUTE	BALL NOSE REGULAR LENGTH - BRAZED TYPE		BB302	247

	Carbon Steels (S45C,S55C...) ~ HB225	Alloy Steels (SCM,SK...) HB225~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
				~HRc55 SKD61	HRc55~ SKD11					
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