

ADVANCED PERFORMANCE

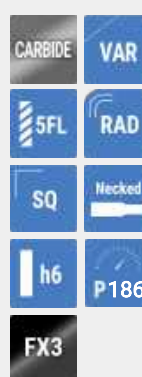
Solid Carbide End Mills For Stainless, Titanium, Steel And Other Ferrous Alloys



PYSTL

Unequal Index End Mill

- Premium sub-micron grade carbide substrate for wear resistance
- Unequal index tool for Titanium, stainless and other gummy materials
- Ideal for HEM profiling milling operations
- Specialized edge honing
- Reduced neck
- SafeLock® shank available upon request



STEEL			STAINLESS		CAST IRON		NON-FERROUS		HSSA		HARDENED STEEL	
P1	P2	P3	M1	M2	K1	K2	N1	N2	S1	S2	H1	H2
●	●	○	○	●	○	○	●	●	○	○	○	○

● Best ○ Good

Series 2213 538RN | 5FL | Reduced Neck | Square and Radius | PYSTL

Diameter(D ₁)	LOC(L ₁)	LBS(L ₂)	OAL(L)	Shank(D)	Radius(R)	EDP
1/8	3/16	3/8	2	1/8	0.020	312009
1/8	3/16	3/8	2	1/8	0.030	312011
1/8	3/16	1/2	2	1/8	-	312013
1/8	3/16	1/2	2	1/8	0.010	312015
1/8	3/16	1/2	2	1/8	0.020	312018
1/8	3/16	1/2	2	1/8	0.030	312022
1/8	3/16	3/4	2-1/2	1/8	-	312025
1/8	3/16	3/4	2-1/2	1/8	0.010	312029
1/8	3/16	3/4	2-1/2	1/8	0.020	312033
1/8	3/16	3/4	2-1/2	1/8	0.030	312036
3/16	1/4	1/2	2	3/16	-	312038
3/16	1/4	1/2	2	3/16	0.010	312041
3/16	1/4	1/2	2	3/16	0.020	312044
3/16	1/4	1/2	2	3/16	0.030	312046
3/16	1/4	3/4	2-1/2	3/16	-	312050
3/16	1/4	3/4	2-1/2	3/16	0.010	312053
3/16	1/4	3/4	2-1/2	3/16	0.020	312056
3/16	1/4	3/4	2-1/2	3/16	0.030	312060
3/16	1/4	1-1/8	2-1/2	3/16	-	312064
3/16	1/4	1-1/8	2-1/2	3/16	0.010	312066
3/16	1/4	1-1/8	2-1/2	3/16	0.020	312068
3/16	1/4	1-1/8	2-1/2	3/16	0.030	312071
1/4	3/8	3/4	4	1/4	-	312073
1/4	3/8	3/4	4	1/4	0.010	312075
1/4	3/8	3/4	4	1/4	0.020	312079
1/4	3/8	3/4	4	1/4	0.030	312082
1/4	3/8	3/4	4	1/4	0.060	312086
1/4	3/8	1-1/8	4	1/4	-	312090
1/4	3/8	1-1/8	4	1/4	0.010	312093
1/4	3/8	1-1/8	4	1/4	0.020	312096
1/4	3/8	1-1/8	4	1/4	0.030	312099
1/4	3/8	1-1/8	4	1/4	0.060	312103
1/4	3/8	2-1/8	4	1/4	-	312106
1/4	3/8	2-1/8	4	1/4	0.010	312109
1/4	3/8	2-1/8	4	1/4	0.020	312113
1/4	3/8	2-1/8	4	1/4	0.030	312116
1/4	3/8	2-1/8	4	1/4	0.060	312118
3/8	1/2	1-1/8	4	3/8	-	312122
3/8	1/2	1-1/8	4	3/8	0.020	312126
3/8	1/2	1-1/8	4	3/8	0.030	312130
3/8	1/2	1-1/8	4	3/8	0.060	312134
3/8	1/2	1-1/8	4	3/8	0.090	312137
3/8	1/2	2-1/8	4	3/8	-	312140
3/8	1/2	2-1/8	4	3/8	0.020	312143
3/8	1/2	2-1/8	4	3/8	0.030	312145

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INTRO

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INSERTS

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3/8	1/2	2-1/8	4	3/8	0.060	312149
3/8	1/2	2-1/8	4	3/8	0.090	312153
3/8	1/2	3-1/8	6	3/8	-	312155
3/8	1/2	3-1/8	6	3/8	0.020	312157
3/8	1/2	3-1/8	6	3/8	0.030	312159
3/8	1/2	3-1/8	6	3/8	0.060	312161
3/8	1/2	3-1/8	6	3/8	0.090	312164
3/8	1/2	4-1/8	6	3/8	-	312168
3/8	1/2	4-1/8	6	3/8	0.020	312171
3/8	1/2	4-1/8	6	3/8	0.030	312174
3/8	1/2	4-1/8	6	3/8	0.060	312176
3/8	1/2	4-1/8	6	3/8	0.090	312180
1/2	5/8	1-1/2	4	1/2	-	312182
1/2	5/8	1-1/2	4	1/2	0.020	312184
1/2	5/8	1-1/2	4	1/2	0.060	312187
1/2	5/8	1-1/2	4	1/2	0.090	312190
1/2	5/8	1-1/2	4	1/2	0.120	312193
1/2	5/8	2-1/4	4	1/2	-	312197
1/2	5/8	2-1/4	4	1/2	0.020	312199
1/2	5/8	2-1/4	4	1/2	0.030	312203
1/2	5/8	2-1/4	4	1/2	0.060	312207
1/2	5/8	2-1/4	4	1/2	0.090	312209
1/2	5/8	2-1/4	4	1/2	0.120	312212
1/2	5/8	3-3/8	6	1/2	-	312214
1/2	5/8	3-3/8	6	1/2	0.020	312217
1/2	5/8	3-3/8	6	1/2	0.030	312220
1/2	5/8	3-3/8	6	1/2	0.060	312222
1/2	5/8	3-3/8	6	1/2	0.090	312226
1/2	5/8	3-3/8	6	1/2	0.120	312228
1/2	5/8	4-1/8	6	1/2	-	312230
1/2	5/8	4-1/8	6	1/2	0.020	312233
1/2	5/8	4-1/8	6	1/2	0.030	312237
1/2	5/8	4-1/8	6	1/2	0.060	312241
1/2	5/8	4-1/8	6	1/2	0.090	312244
1/2	5/8	4-1/8	6	1/2	0.120	312248
5/8	3/4	1-5/8	4	5/8	-	312251
5/8	3/4	1-5/8	4	5/8	0.030	312253
5/8	3/4	1-5/8	4	5/8	0.060	312256
5/8	3/4	1-5/8	4	5/8	0.090	312259
5/8	3/4	1-5/8	4	5/8	0.120	312261
5/8	3/4	2-3/8	6	5/8	-	312263
5/8	3/4	2-3/8	6	5/8	0.030	312267
5/8	3/4	2-3/8	6	5/8	0.060	312270
5/8	3/4	2-3/8	6	5/8	0.090	312273
5/8	3/4	2-3/8	6	5/8	0.120	312275
5/8	3/4	3-3/8	6	5/8	-	312277
5/8	3/4	3-3/8	6	5/8	0.030	312279
5/8	3/4	3-3/8	6	5/8	0.060	312282
5/8	3/4	3-3/8	6	5/8	0.090	312286
5/8	3/4	3-3/8	6	5/8	0.120	312290
5/8	3/4	4-1/8	6	5/8	-	312293
5/8	3/4	4-1/8	6	5/8	0.030	312297
5/8	3/4	4-1/8	6	5/8	0.060	312300
5/8	3/4	4-1/8	6	5/8	0.090	312302
5/8	3/4	4-1/8	6	5/8	0.120	312306
3/4	1	2	4	3/4	-	312309
3/4	1	2	4	3/4	0.030	312312
3/4	1	2	4	3/4	0.060	312314
3/4	1	2	4	3/4	0.090	312318
3/4	1	2	4	3/4	0.120	312322
3/4	1	2	4	3/4	0.190	312325
3/4	1	2	4	3/4	0.250	312329
3/4	1	2-1/2	6	3/4	-	312333
3/4	1	2-1/2	6	3/4	0.030	312335
3/4	1	2-1/2	6	3/4	0.060	312338
3/4	1	2-1/2	6	3/4	0.090	312340
3/4	1	2-1/2	6	3/4	0.120	312342
3/4	1	2-1/2	6	3/4	0.190	312345
3/4	1	2-1/2	6	3/4	0.250	312349
3/4	1	3-3/8	6	3/4	-	312353
3/4	1	3-3/8	6	3/4	0.030	312357
3/4	1	3-3/8	6	3/4	0.060	312360
3/4	1	3-3/8	6	3/4	0.090	312364
3/4	1	3-3/8	6	3/4	0.120	312366
3/4	1	3-3/8	6	3/4	0.190	312370
3/4	1	3-3/8	6	3/4	0.250	312372

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Diameter(D ₁)	LOC(L ₁)	LBS(L ₂)	OAL(L)	Shank(D)	Radius(R)	EDP
3/4	1	4-1/8	6	3/4	-	312374
3/4	1	4-1/8	6	3/4	0.030	312378
3/4	1	4-1/8	6	3/4	0.060	312381
3/4	1	4-1/8	6	3/4	0.090	312385
3/4	1	4-1/8	6	3/4	0.120	312388
3/4	1	4-1/8	6	3/4	0.190	312391
3/4	1	4-1/8	6	3/4	0.250	312394
1	1-1/4	2-1/4	4	1	-	312398
1	1-1/4	2-1/4	4	1	0.030	312401
1	1-1/4	2-1/4	4	1	0.060	312404
1	1-1/4	2-1/4	4	1	0.090	312408
1	1-1/4	2-1/4	4	1	0.120	312411
1	1-1/4	2-1/4	4	1	0.190	312415
1	1-1/4	2-1/4	4	1	0.250	312417
1	1-1/4	2-5/8	6	1	-	312419
1	1-1/4	2-5/8	6	1	0.030	312423
1	1-1/4	2-5/8	6	1	0.060	312425
1	1-1/4	2-5/8	6	1	0.090	312428
1	1-1/4	2-5/8	6	1	0.120	312432
1	1-1/4	2-5/8	6	1	0.190	312436
1	1-1/4	2-5/8	6	1	0.250	312438
1	1-1/4	3-3/8	6	1	-	312441
1	1-1/4	3-3/8	6	1	0.030	312444
1	1-1/4	3-3/8	6	1	0.060	312448
1	1-1/4	3-3/8	6	1	0.090	312451
1	1-1/4	3-3/8	6	1	0.120	312455
1	1-1/4	3-3/8	6	1	0.190	312458
1	1-1/4	3-3/8	6	1	0.250	312461
1	1-1/4	4-1/8	6	1	-	312463
1	1-1/4	4-1/8	6	1	0.030	312467
1	1-1/4	4-1/8	6	1	0.060	312470
1	1-1/4	4-1/8	6	1	0.090	312474
1	1-1/4	4-1/8	6	1	0.120	312477
1	1-1/4	4-1/8	6	1	0.190	312480
1	1-1/4	4-1/8	6	1	0.250	312484
1-1/4	1-1/2	2-1/4	5	1-1/4	-	312487
1-1/4	1-1/2	2-1/4	5	1-1/4	0.030	312490
1-1/4	1-1/2	2-1/4	5	1-1/4	0.060	312493
1-1/4	1-1/2	2-1/4	5	1-1/4	0.090	312495
1-1/4	1-1/2	2-1/4	5	1-1/4	0.120	312499
1-1/4	1-1/2	2-1/4	5	1-1/4	0.190	312501
1-1/4	1-1/2	2-1/4	5	1-1/4	0.250	312505
1-1/4	1-1/2	2-5/8	6	1-1/4	-	312507
1-1/4	1-1/2	2-5/8	6	1-1/4	0.030	312510
1-1/4	1-1/2	2-5/8	6	1-1/4	0.060	312514
1-1/4	1-1/2	2-5/8	6	1-1/4	0.090	312517
1-1/4	1-1/2	2-5/8	6	1-1/4	0.120	312521
1-1/4	1-1/2	2-5/8	6	1-1/4	0.190	312525
1-1/4	1-1/2	2-5/8	6	1-1/4	0.250	312528
1-1/4	1-1/2	3-3/8	6	1-1/4	-	312532
1-1/4	1-1/2	3-3/8	6	1-1/4	0.030	312536
1-1/4	1-1/2	3-3/8	6	1-1/4	0.060	312540
1-1/4	1-1/2	3-3/8	6	1-1/4	0.090	312544
1-1/4	1-1/2	3-3/8	6	1-1/4	0.120	312547
1-1/4	1-1/2	3-3/8	6	1-1/4	0.190	312549
1-1/4	1-1/2	3-3/8	6	1-1/4	0.250	312551
1-1/4	1-1/2	4-1/8	6	1-1/4	-	312553
1-1/4	1-1/2	4-1/8	6	1-1/4	0.030	312556
1-1/4	1-1/2	4-1/8	6	1-1/4	0.060	312558
1-1/4	1-1/2	4-1/8	6	1-1/4	0.090	312560
1-1/4	1-1/2	4-1/8	6	1-1/4	0.120	312564
1-1/4	1-1/2	4-1/8	6	1-1/4	0.190	312568
1-1/4	1-1/2	4-1/8	6	1-1/4	0.250	312571

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