

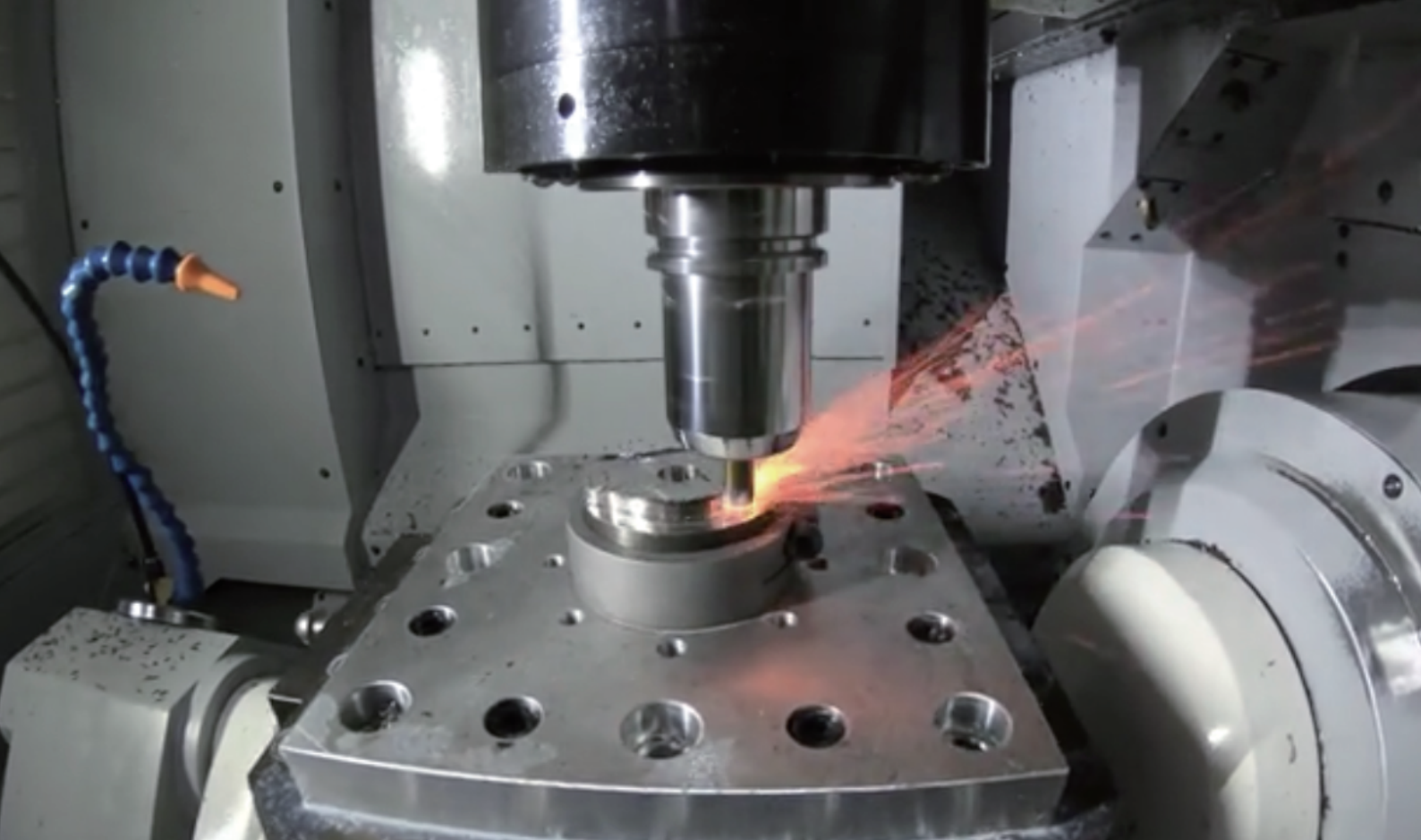


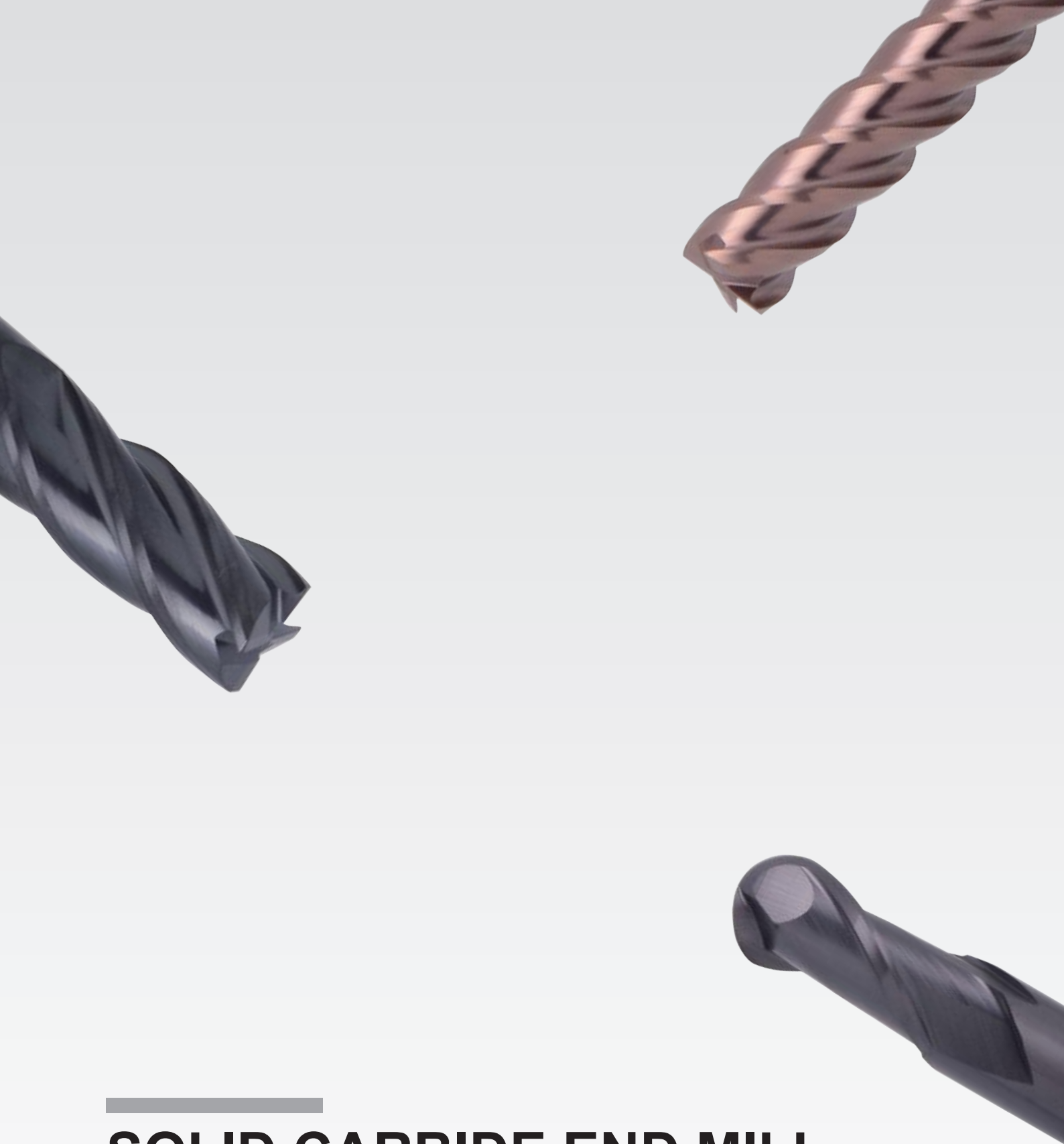
NH CERAMLC MILLING

NH陶瓷铣刀

High efficient to process of nickel - based heat - resistant alloy, titanium alloy, superalloy materials.
高效加工镍基耐热合金，钛合金，高温合金材料。

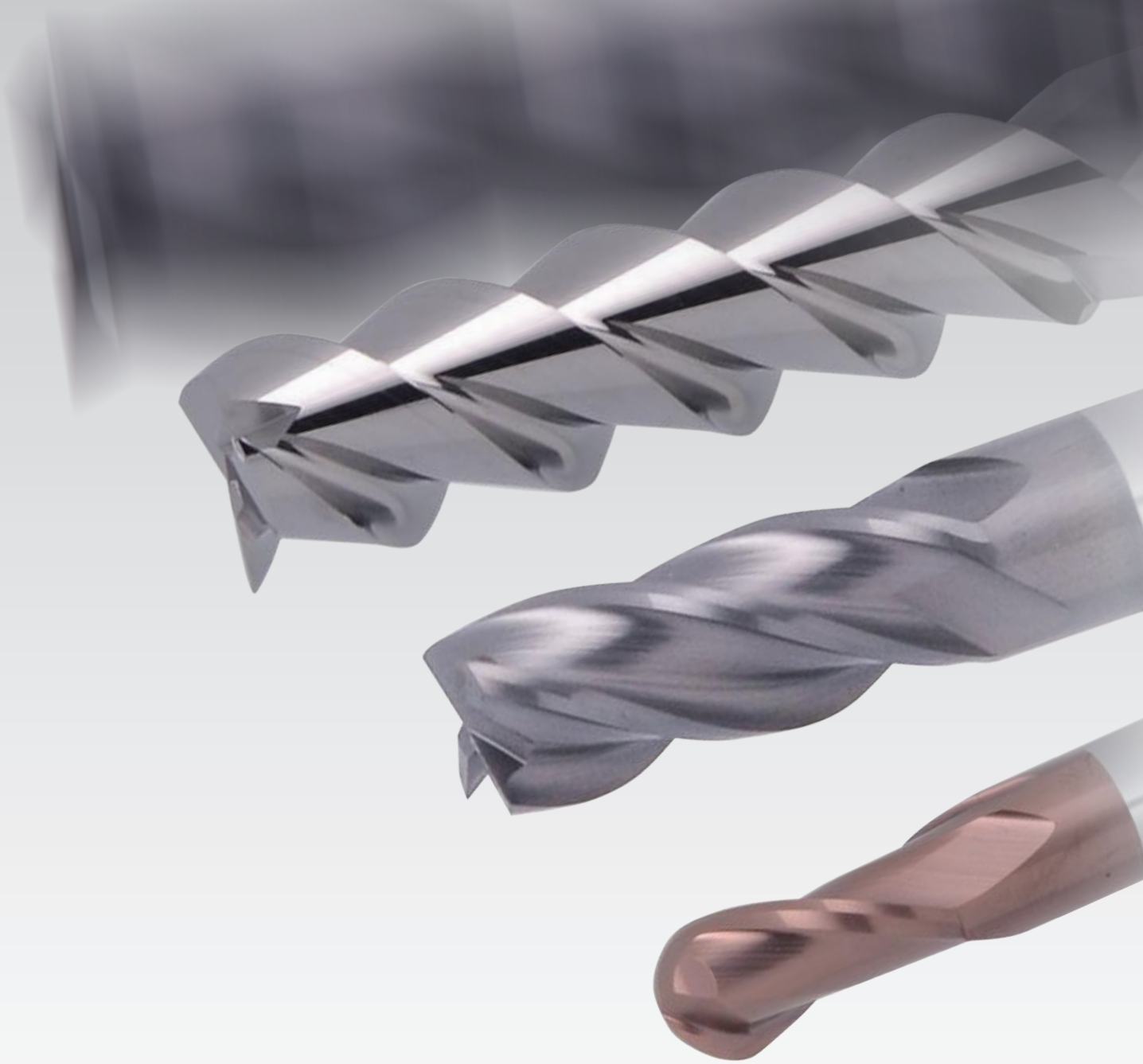
The efficiency is more than 10 times of carbide milling cutter.
效率是硬质合金铣刀的10倍以上。





SOLID CARBIDE END MILL

硬质合金铣刀



N450 Series

N450 系列

Tungsten steel 4flutes flat milling cutter 钨钢四刃标准平铣刀	P265
Long shank tungsten steel 4flutes flat milling cutter 钨钢四刃长柄平铣刀	P266
Tungsten steel 4flutes long flat milling cutter 钨钢四刃长刃平铣刀	P268
Tungsten steel 2flutes flat milling cutter 钨钢二刃标准平铣刀	P270
Long shank tungsten steel 2flutes flat milling cutter 钨钢二刃长柄平铣刀	P271
Tungsten steel 2flutes long flat milling cutter 钨钢二刃长刃平铣刀	P273
Tungsten steel 3flutes flat milling cutter 钨钢三刃标准平铣刀	P275
Long shank tungsten steel 3flutes flat milling cutter 钨钢三刃长柄平铣刀	P276
Tungsten steel 2flutes ballnose milling cutter 钨钢二刃标准球铣刀	P277
Tungsten steel 2flutes long ballnose milling cutter 钨钢二刃加长球铣刀	P278
Tungsten steel 4flutes ballnose milling cutter 钨钢四刃标准球铣刀	P280
Tungsten steel 4flutes long ballnose milling cutter 钨钢四刃加长球铣刀	P281
Tungsten steel 4flutes corner radius milling cutter 钨钢四刃标准圆鼻铣刀	P283
Tungsten steel 4flutes long corner radius milling cutter 钨钢四刃加长圆鼻铣刀	P284
Tungsten steel 2flutes corner radius milling cutter 钨钢二刃标准圆鼻铣刀	P285
Tungsten steel 2flutes long corner radius milling cutter 钨钢二刃加长圆鼻铣刀	P286
Tungsten steel 2flutes ballnose aluminium milling cutter 钨钢二刃标准铝用球铣刀	P287
Tungsten steel 2flutes long ballnose aluminium milling cutter 钨钢二刃加长铝用球铣刀	P288
Tungsten steel 2flutes aluminium flat milling cutter 钨钢二刃标准铝用平铣刀	P290
Tungsten steel 2flutes long aluminium flat milling cutter 钨钢二刃加长铝用平铣刀	P291
Long shank tungsten steel 2flutes aluminium flat milling cutter 钨钢二刃长刃铝用平铣刀	P293

N450 Series

N450 系列

Tungsten steel 3flutes aluminium flat milling cutter 钨钢三刃标准铝用平铣刀	P295
Tungsten steel 3flutes long aluminium milling cutter 钨钢三刃加长铝用铣刀	P296
Long shank tungsten steel 3flutes aluminium milling cutter 钨钢三刃长刃铝用铣刀	P298
Tungsten steel 3flutes aluminium corner radius milling cutter 钨钢三刃标准铝用圆鼻铣刀	P300
Tungsten steel 3flutes long aluminium corner radius milling cutter 钨钢三刃加长铝用圆鼻铣刀	P301
Tungsten steel 3flutes aluminium rough milling cutter 钨钢三刃标准铝用粗皮铣刀	P302
Tungsten steel 4flutes rough milling cutter 钨钢四刃标准粗皮铣刀	P303
Tungsten steel 2 flutes deep hook flat milling cutter 钨钢二刃深勾标准平铣刀	P304
Tungsten steel 4flutes deep hook flat milling cutter 钨钢四刃深勾标准平铣刀	P305
Tungsten steel 4flutes deep hook ballnose milling cutter 钨钢四刃深勾标准球铣刀	P306
Tungsten steel 2 flutes deep hook ballnose milling cutter 钨钢二刃深勾标准球铣刀	P307

N550 Series

N550 系列

Tungsten steel 4flutes flat milling cutter 钨钢四刃标准平铣刀	P309
Long shank tungsten steel 4flutes flat milling cutter 钨钢四刃长柄平铣刀	P310
Tungsten steel 4flutes long flat milling cutter 钨钢四刃长刃平铣刀	P312
Tungsten steel 2flutes flat milling cutter 钨钢二刃标准平铣刀	P314
Long shank tungsten steel 2flutes flat milling cutter 钨钢二刃长柄平铣刀	P315
Tungsten steel 2flutes long flat milling cutter 钨钢二刃长刃平铣刀	P317
Tungsten steel 3flutes flat milling cutter 钨钢三刃标准平铣刀	P319
Long shank tungsten steel 3flutes flat milling cutter 钨钢三刃长柄平铣刀	P320
Tungsten steel 6flutes flat milling cutter 钨钢六刃标准平铣刀	P321
Tungsten steel 2flutes ballnose milling cutter 钨钢二刃标准球铣刀	P322
Tungsten steel 2flutes long ballnose milling cutter 钨钢二刃加长球铣刀	P323
Tungsten steel 4flutes ballnose milling cutter 钨钢四刃标准球铣刀	P325
Tungsten steel 4flutes long ballnose milling cutter 钨钢四刃加长球铣刀	P326
Tungsten steel 2flutes ballnose aluminium milling cutter 钨钢二刃标准铝用球铣刀	P328
Tungsten steel 2flutes long ballnose aluminium milling cutter 钨钢二刃加长铝用球铣刀	P329
Tungsten steel 2flutes aluminium flat milling cutter 钨钢二刃标准铝用平铣刀	P331
Tungsten steel 2flutes long aluminium flat milling cutter 钨钢二刃加长铝用平铣刀	P332
Long shank tungsten steel 2flutes aluminium flat milling cutter 钨钢二刃长刃铝用平铣刀	P334
Tungsten steel 3flutes aluminium flat milling cutter 钨钢三刃标准铝用平铣刀	P336
Tungsten steel 3flutes long aluminium flat milling cutter 钨钢三刃加长铝用平铣刀	P337
Long shank tungsten steel 3flutes aluminium flat milling cutter 钨钢三刃长刃铝用平铣刀	P339
Tungsten steel 3flutes aluminium corner radius milling cutter 钨钢三刃标准铝用圆鼻铣刀	P341

N550 Series

N550 系列

Tungsten steel 3flutes long aluminium corner radius milling cutter 钨钢三刃加长铝用圆鼻铣刀	P342
Tungsten steel 4flutes corner radius milling cutter 钨钢四刃标准圆鼻铣刀	P343
Tungsten steel 4flutes long corner radius milling cutter 钨钢四刃加长圆鼻铣刀	P345
Tungsten steel 4flutes long neck deep groove corner radius milling cutter 钨钢四刃长颈深沟圆鼻铣刀	P347
Tungsten steel 2flutes corner radius milling cutter 钨钢二刃标准圆鼻铣刀	P349
Tungsten steel 2flutes long corner radius milling cutter 钨钢二刃加长圆鼻铣刀	P351
Tungsten steel 2flutes long neck deep groove corner radius milling cutter 钨钢二刃长颈深沟圆鼻铣刀	P353
Tungsten steel 3flutes aluminium rough milling cutter 钨钢三刃标准铝用粗皮铣刀	P355
Tungsten steel 4flutes rough milling cutter 钨钢四刃标准粗皮铣刀	P356
Tungsten steel 2flutes deep hook flat milling cutter 钨钢二刃深勾标准平铣刀	P357
Tungsten steel 4flutes deep hook flat milling cutter 钨钢四刃深勾标准平铣刀	P358
Tungsten steel 2flutes deep hook ballnose milling cutter 钨钢二刃深勾标准球铣刀	P359

N600 Series

N600 系列

Tungsten steel 4flutes flat milling cutter 钨钢四刃标准平铣刀	P362
Long shank tungsten steel 4flutes flat milling cutter 钨钢四刃长柄平铣刀	P363
Tungsten steel 4flutes long flat milling cutter 钨钢四刃长刃平铣刀	P365
Tungsten steel 2flutes flat milling cutter 钨钢二刃标准平铣刀	P367
Long shank tungsten steel 2flutes flat milling cutter 钨钢二刃长柄平铣刀	P368
Tungsten steel 2flutes long flat milling cutter 钨钢二刃长刃平铣刀	P370
Tungsten steel 3flutes flat milling cutter 钨钢三刃标准平铣刀	P372
Long shank tungsten steel 3flutes flat milling cutter 钨钢三刃长柄平铣刀	P373
Tungsten steel 2flutes ballnose milling cutter 钨钢二刃标准球铣刀	P374
Tungsten steel 2flutes long ballnose milling cutter 钨钢二刃加长球铣刀	P375
Tungsten steel 4flutes ballnose milling cutter 钨钢四刃标准球铣刀	P377
Tungsten steel 4flutes long ballnose milling cutter 钨钢四刃加长球铣刀	P378
Tungsten steel 4flutes corner radius milling cutter 钨钢四刃标准圆鼻铣刀	P380
Tungsten steel 4flutes long corner radius milling cutter 钨钢四刃加长圆鼻铣刀	P382
Tungsten steel 2flutes long neck deep groove corner radius milling cutter 钨钢四刃长颈深沟圆鼻铣刀	P384
Tungsten steel 2flutes corner radius milling cutter 钨钢二刃标准圆鼻铣刀	P386
Tungsten steel 2flutes long corner radius milling cutter 钨钢二刃加长圆鼻铣刀	P388
Tungsten steel 2flutes long neck deep groove corner radius milling cutter 钨钢二刃长颈深沟圆鼻铣刀	P390
Tungsten steel 2 flutes deep hook flat milling cutter 钨钢二刃深勾标准平铣刀	P392
Tungsten steel 4 flutes deep hook flat milling cutter 钨钢四刃深勾标准平铣刀	P393
Tungsten steel 2 flutes deep hook ballnose milling cutter 钨钢二刃深勾标准球铣刀	P394

N650 Series

N650 系列

Tungsten steel 4flutes flat milling cutter 钨钢四刃标准平铣刀	P397
Long shank tungsten steel 4flutes flat milling cutter 钨钢四刃长柄平铣刀	P398
Tungsten steel 2flutes flat milling cutter 钨钢二刃标准平铣刀	P399
Long shank tungsten steel 2flutes flat milling cutter 钨钢二刃长柄平铣刀	P400
Tungsten steel 3flutes flat milling cutter 钨钢三刃标准平铣刀	P401
Tungsten steel 6flutes flat milling cutter 钨钢六刃标准平铣刀	P402
Tungsten steel 2flutes ballnose milling cutter 钨钢二刃标准球铣刀	P403
Tungsten steel 4flutes ballnose milling cutter 钨钢四刃标准球铣刀	P404
Tungsten steel 4flutes corner radius milling cutter 钨钢四刃标准圆鼻铣刀	P405
Tungsten steel 4flutes long corner radius milling cutter 钨钢四刃加长圆鼻铣刀	P407
Tungsten steel 4flutes long neck deep groove corner radius milling cutter 钨钢四刃长颈深沟圆鼻铣刀	P409
Tungsten steel 2flutes corner radius milling cutter 钨钢二刃标准圆鼻铣刀	P411
Tungsten steel 2flutes long corner radius milling cutter 钨钢二刃加长圆鼻铣刀	P413
Tungsten steel 2flutes long neck deep groove corner radius milling cutter 钨钢二刃长颈深沟圆鼻铣刀	P415
Tungsten steel 2 flutes deep hook flat milling cutter 钨钢二刃深勾标准平铣刀	P417
Tungsten steel 4 flutes deep hook flat milling cutter 钨钢四刃深勾标准平铣刀	P418
Tungsten steel 2 flutes deep hook ballnose milling cutter 钨钢二刃深勾标准球铣刀	P419
Tungsten steel 4 flutes deep hook ballnose milling cutter 钨钢四刃深勾标准球铣刀	P420

N680 Series

N680 系列

Tungsten steel 2flutes flat milling cutter 钨钢二刃标准平铣刀	P422
Tungsten steel 4flutes flat milling cutter 钨钢四刃标准平铣刀	P423
Tungsten steel 2flutes ballnose milling cutter 钨钢二刃标准球铣刀	P424
Tungsten steel 4flutes ballnose milling cutter 钨钢四刃标准球铣刀	P425
Tungsten steel 4flutes corner radius milling cutter 钨钢四刃标准圆鼻铣刀	P426
Tungsten steel 4flutes long corner radius milling cutter 钨钢四刃加长圆鼻铣刀	P428
Tungsten steel 2flutes corner radius milling cutter 钨钢二刃标准圆鼻铣刀	P429
Tungsten steel 2flutes long corner radius milling cutter 钨钢二刃加长圆鼻铣刀	P431
Tungsten steel 2flutes long neck deep groove corner radius milling cutter 钨钢二刃长颈深沟圆鼻铣刀	P432
Tungsten steel 4flutes long neck deep groove corner radius milling cutter 钨钢四刃长颈深沟圆鼻铣刀	P433
Tungsten steel 2 flutes deep hook flat milling cutter 钨钢二刃深勾标准平铣刀	P434
Tungsten steel 4 flutes deep hook flat milling cutter 钨钢四刃深勾标准平铣刀	P435
Tungsten steel 2 flutes deep hook ballnose milling cutter 钨钢二刃深勾标准球铣刀	P436
Tungsten steel 4 flutes deep hook ballnose milling cutter 钨钢四刃深勾标准球铣刀	P437

Micro-diameter Milling Cutter

微小径刀

N550 tungsten steel 2 flutes micro-diameter flat milling cutter N550 钨钢微小径二刃标准平铣刀	P439
N550 Tungsten steel micro-diameter -diameter deep hook 2 flutes flat milling cutter N550 钨钢微小径深沟二刃标准平铣刀	P440
N550 Tungsten steel 2 flutes micro-diameter ballnose milling cutter N550 钨钢微小径二刃球铣刀	P441
N550 Tungsten steel micro-diameter deep hook 2 flutes ballnose milling cutter N550 钨钢微小径深沟二刃球铣刀	P442
N650 Tungsten steel 2 flutes micro-diameter flat milling cutter N650 钨钢微小径二刃标准平铣刀	P443
N650 Tungsten steel micro-diameter deep hook 2 flutes flat milling cutter N650 钨钢微小径深沟二刃标准平铣刀	P444
N650 Tungsten steel 2 flutes micro-diameter ballnose milling cutter N650 钨钢微小径二刃球铣刀	P445
N650 Tungsten steel micro-diameter deep hook 2 flutes ballnose milling cutter N650 钨钢微小径深沟二刃球铣刀	P446
N680 Tungsten steel 2 flutes micro-diameter flat milling cutter N680 钨钢微小径二刃标准平铣刀	P447
N680 Tungsten steel micro-diameter deep hook 2 flutes ballnose milling cutter N680 钨钢微小径深沟二刃球铣刀	P448

NL High polishing aluminum end mill Series

NL 高光洁度铝用系列

High polishing 2flutes aluminum alloy flat bottom end mill 高光洁度二刃标准铝用铣刀	P449
High polishing 3flutes aluminum alloy flat bottom end mill 高光洁度三刃标准铝用铣刀	P450
High polishing 2flutes aluminum alloy corner radius end mill 高光洁度二刃标准铝用圆鼻铣刀	P451
High polishing 3flutes aluminum alloy corner radius end mill 高光洁度三刃标准铝用圆鼻铣刀	P452
High polishing Aluminum ball nose endm mill 高光洁度铝用球头铣刀	P453

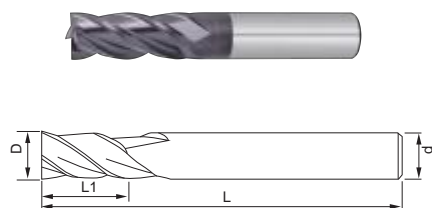
NH Ceramic Series

NH 陶瓷系列

Comparison shows that 对比说明	P455
Integral ceramic milling cutter 整体陶瓷铣刀	P456
Cutting parameters 切削参数	P456

Tungsten steel 4flutes flat milling cutter

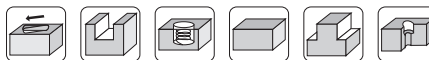
钨钢四刃标准平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC20 to ~ HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy
适用于HRC20 ~ HRC45钢、合金钢、铸铁、铝合金；

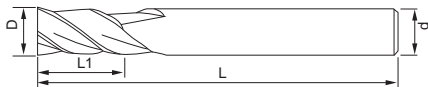
High precision cutting , excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PPX4101	1.0	3	50	4	4
N45PPX4102	1.5	4.5	50	4	4
N45PPX4103	2.0	6	50	4	4
N45PPX4104	2.5	7.5	50	4	4
N45PPX4105	3.0	9	50	4	4
N45PPX4106	3.0	9	50	3	4
N45PPX4107	3.5	10	50	4	4
N45PPX4108	4.0	12	50	4	4
N45PPX4109	4.5	13	50	6	4
N45PPX4110	5.0	15	50	6	4
N45PPX4111	5.0	15	50	5	4
N45PPX4112	5.5	16	50	6	4
N45PPX4113	6.0	15	50	6	4
N45PPX4114	6.0	18	50	6	4
N45PPX4115	7.0	20	60	8	4
N45PPX4116	8.0	20	60	8	4
N45PPX4117	8.0	25	60	8	4
N45PPX4118	9.0	27	75	10	4
N45PPX4119	10.0	25	75	10	4
N45PPX4120	10.0	30	75	10	4
N45PPX4121	11.0	30	75	12	4
N45PPX4122	12.0	30	75	12	4
N45PPX4123	12.0	35	75	12	4
N45PPX4124	13.0	40	100	14	4
N45PPX4125	14.0	40	100	14	4
N45PPX4126	15.0	42	100	16	4
N45PPX4127	16.0	45	100	16	4
N45PPX4128	17.0	45	100	18	4
N45PPX4129	18.0	45	100	18	4
N45PPX4130	19.0	45	100	20	4
N45PPX4131	20.0	48	100	20	4

Long shank tungsten steel 4flutes flat milling cutter

钨钢四刃长柄平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PPX4132	1.5	6	75	4	4
N45PPX4133	1.5	6	75	6	4
N45PPX4134	1.5	6	100	4	4
N45PPX4135	1.5	6	100	6	4
N45PPX4136	2.0	6	50	6	4
N45PPX4137	2.0	8	75	4	4
N45PPX4138	2.0	8	100	6	4
N45PPX4139	2.0	8	100	4	4
N45PPX4140	2.0	8	100	6	4
N45PPX4141	2.5	8	50	6	4
N45PPX4142	2.5	10	75	4	4
N45PPX4143	2.5	10	75	6	4
N45PPX4144	2.5	10	100	4	4
N45PPX4145	2.5	10	100	6	4
N45PPX4146	3.0	12	75	3	4
N45PPX4147	3.0	12	100	3	4
N45PPX4148	3.0	12	50	6	4
N45PPX4149	3.0	12	75	4	4
N45PPX4150	3.0	12	75	6	4
N45PPX4151	3.0	12	100	4	4
N45PPX4152	3.0	12	100	6	4
N45PPX4153	3.5	10	50	6	4
N45PPX4154	4.0	12	50	6	4
N45PPX4155	4.0	16	75	4	4
N45PPX4156	4.0	16	75	6	4
N45PPX4157	4.0	16	100	4	4
N45PPX4158	4.0	16	100	6	4
N45PPX4159	5.0	18	75	5	4
N45PPX4160	5.0	18	100	5	4
N45PPX4161	5.0	18	75	6	4
N45PPX4162	5.0	18	100	6	4
N45PPX4163	6.0	22	75	6	4
N45PPX4164	6.0	22	100	6	4
N45PPX4165	6.0	25	150	6	4
N45PPX4166	8.0	25	75	8	4
N45PPX4167	8.0	30	100	8	4



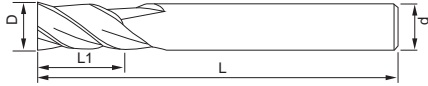
Long shank tungsten steel 4flutes flat milling cutter

钨钢四刃长柄平铣刀

Code No.	D	L1	L	d	T
N45PPX4168	8.0	35	150	8	4
N45PPX4169	8.0	40	200	8	4
N45PPX4170	10.0	30	100	10	4
N45PPX4171	10.0	40	150	10	4
N45PPX4172	10.0	45	200	10	4
N45PPX4173	12.0	35	100	12	4
N45PPX4174	12.0	45	150	12	4
N45PPX4175	12.0	45	200	12	4
N45PPX4176	14.0	45	150	14	4
N45PPX4177	14.0	50	200	14	4
N45PPX4178	16.0	50	150	16	4
N45PPX4179	16.0	55	200	16	4
N45PPX4180	18.0	55	150	18	4
N45PPX4181	20.0	55	150	20	4
N45PPX4182	20.0	55	200	20	4

Tungsten steel 4flutes long flat milling cutter

钨钢四刃长刃平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PPX4183	1.0	6	50	4	4
N45PPX4184	1.0	6	50	6	4
N45PPX4185	1.0	8	50	4	4
N45PPX4186	1.0	8	50	6	4
N45PPX4187	1.0	10	50	4	4
N45PPX4188	1.0	10	50	6	4
N45PPX4189	1.5	7	50	4	4
N45PPX4190	1.5	7	50	6	4
N45PPX4191	1.5	9	50	4	4
N45PPX4192	1.5	9	50	6	4
N45PPX4193	1.5	11	50	4	4
N45PPX4194	1.5	11	50	6	4
N45PPX4195	2.0	10	50	4	4
N45PPX4196	2.0	10	50	6	4
N45PPX4197	2.0	13	50	4	4
N45PPX4198	2.0	13	50	6	4
N45PPX4199	2.0	16	50	4	4
N45PPX4200	2.0	16	50	6	4
N45PPX4201	2.5	10	50	4	4
N45PPX4202	2.5	10	50	6	4
N45PPX4203	2.5	14	50	4	4
N45PPX4204	2.5	14	50	6	4
N45PPX4205	2.5	18	50	4	4
N45PPX4206	2.5	18	50	6	4
N45PPX4207	3.0	12	50	4	4
N45PPX4208	3.0	12	50	6	4
N45PPX4209	3.0	16	50	4	4
N45PPX4210	3.0	16	50	6	4
N45PPX4211	3.0	20	50	4	4
N45PPX4212	3.0	20	50	6	4
N45PPX4213	4.0	20	75	4	4
N45PPX4214	4.0	25	100	4	4
N45PPX4215	5.0	23	75	6	4
N45PPX4216	5.0	25	100	6	4
N45PPX4217	6.0	35	100	6	4
N45PPX4218	6.0	40	100	6	4

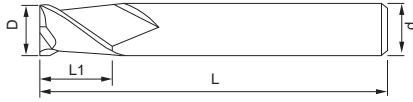
Tungsten steel 4flutes long flat milling cutter

钨钢四刃长刃平铣刀

Code No.	D	L1	L	d	T
N45PPX4219	6.0	40	150	6	4
N45PPX4220	8.0	35	100	8	4
N45PPX4221	8.0	40	100	8	4
N45PPX4222	8.0	40	150	8	4
N45PPX4223	10.0	45	100	10	4
N45PPX4224	10.0	50	100	10	4
N45PPX4225	10.0	50	150	10	4
N45PPX4226	12.0	45	100	12	4
N45PPX4227	12.0	50	100	12	4
N45PPX4228	12.0	50	150	12	4
N45PPX4229	14.0	65	150	14	4
N45PPX4230	14.0	75	150	14	4
N45PPX4231	16.0	65	150	16	4
N45PPX4232	16.0	75	150	16	4
N45PPX4233	20.0	65	150	20	4
N45PPX4234	20.0	75	150	20	4

Tungsten steel 2flutes flat milling cutter

钨钢二刃标准平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

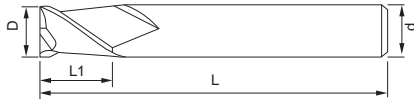
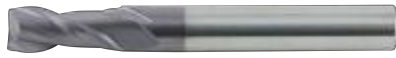
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PPX2101	1.0	3	50	4	2
N45PPX2102	1.5	4.5	50	4	2
N45PPX2103	2.0	6	50	4	2
N45PPX2104	2.5	7.5	50	4	2
N45PPX2105	3.0	9	50	4	2
N45PPX2106	3.0	9	50	3	2
N45PPX2107	3.5	10	50	4	2
N45PPX2108	4.0	12	50	4	2
N45PPX2109	4.5	13	50	6	2
N45PPX2110	5.0	13	50	6	2
N45PPX2111	5.0	15	50	5	2
N45PPX2112	5.5	15	50	6	2
N45PPX2113	6.0	15	50	6	2
N45PPX2114	7.0	20	60	8	2
N45PPX2115	8.0	20	60	8	2
N45PPX2116	9.0	25	75	10	2
N45PPX2117	10.0	25	75	10	2
N45PPX2118	11.0	30	75	12	2
N45PPX2119	12.0	30	75	12	2
N45PPX2120	14.0	40	100	14	2
N45PPX2121	15.0	42	100	16	2
N45PPX2122	16.0	45	100	16	2
N45PPX2123	17.0	45	100	18	2
N45PPX2124	18.0	45	100	18	2
N45PPX2125	20.0	48	100	20	2

Long shank tungsten steel 2flutes flat milling cutter

钨钢二刃长柄平铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金；

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Code No.	D	L1	L	d	T
N45PPX2130	1.5	4.5	50	6	2
N45PPX2131	1.5	6	75	4	2
N45PPX2132	1.5	6	75	6	2
N45PPX2133	1.5	6	100	4	2
N45PPX2134	1.5	6	100	6	2
N45PPX2135	2.0	6	50	6	2
N45PPX2136	2.0	8	75	4	2
N45PPX2137	2.0	8	100	6	2
N45PPX2138	2.0	8	100	4	2
N45PPX2139	2.0	8	100	6	2
N45PPX2140	2.5	7.5	50	6	2
N45PPX2141	2.5	10	75	4	2
N45PPX2142	2.5	10	75	6	2
N45PPX2143	2.5	10	100	4	2
N45PPX2144	2.5	10	100	6	2
N45PPX2145	3.0	12	75	3	2
N45PPX2146	3.0	12	100	3	2
N45PPX2147	3.0	9	50	6	2
N45PPX2148	3.0	12	75	4	2
N45PPX2149	3.0	12	75	6	2
N45PPX2150	3.0	12	100	4	2
N45PPX2151	3.0	12	100	6	2
N45PPX2152	3.5	10	50	6	2
N45PPX2153	4.0	12	50	6	2
N45PPX2154	4.0	16	75	4	2
N45PPX2155	4.0	16	75	6	2
N45PPX2156	4.0	16	100	4	2
N45PPX2157	4.0	16	100	6	2
N45PPX2158	5.0	18	75	5	2
N45PPX2159	5.0	18	100	5	2
N45PPX2160	5.0	18	75	6	2
N45PPX2161	5.0	18	100	6	2
N45PPX2162	6.0	22	75	6	2
N45PPX2163	6.0	22	100	6	2
N45PPX2164	6.0	25	150	6	2
N45PPX2165	8.0	25	75	8	2

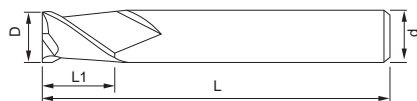
Long shank tungsten steel 2flutes flat milling cutter

钨钢二刃长柄平铣刀

Code No.	D	L1	L	d	T
N45PPX2166	8.0	30	100	8	2
N45PPX2167	8.0	35	150	8	2
N45PPX2168	8.0	40	200	8	2
N45PPX2169	10.0	30	100	10	2
N45PPX2170	10.0	40	150	10	2
N45PPX2171	10.0	45	200	10	2
N45PPX2172	12.0	35	100	12	2
N45PPX2173	12.0	45	150	12	2
N45PPX2174	12.0	45	200	12	2
N45PPX2175	14.0	45	150	14	2
N45PPX2176	14.0	50	200	14	2
N45PPX2177	16.0	50	150	16	2
N45PPX2178	16.0	55	200	16	2
N45PPX2179	18.0	55	150	18	2
N45PPX2180	20.0	55	150	20	2
N45PPX2181	20.0	55	200	20	2

Tungsten steel 2flutes long flat milling cutter

钨钢二刃长刃平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PPX2182	1.0	6	50	4	2
N45PPX2183	1.0	6	50	6	2
N45PPX2184	1.0	8	50	4	2
N45PPX2185	1.0	8	50	6	2
N45PPX2186	1.0	10	50	4	2
N45PPX2187	1.0	10	50	6	2
N45PPX2188	1.5	7	50	5	2
N45PPX2189	1.5	7	50	6	2
N45PPX2190	1.5	9	50	4	2
N45PPX2191	1.5	9	50	6	2
N45PPX2192	1.5	11	50	4	2
N45PPX2193	1.5	11	50	6	2
N45PPX2194	2.0	10	50	4	2
N45PPX2195	2.0	10	50	6	2
N45PPX2196	2.0	13	50	4	2
N45PPX2197	2.0	13	50	6	2
N45PPX2198	2.0	16	50	4	2
N45PPX2199	2.0	16	50	6	2
N45PPX2200	2.5	10	50	4	2
N45PPX2201	2.5	10	50	6	2
N45PPX2202	2.5	14	50	4	2
N45PPX2203	2.5	14	50	6	2
N45PPX2204	2.5	18	50	4	2
N45PPX2205	2.5	18	50	6	2
N45PPX2206	3.0	12	50	4	2
N45PPX2207	3.0	12	50	6	2
N45PPX2208	3.0	16	50	4	2
N45PPX2209	3.0	16	50	6	2
N45PPX2210	3.0	20	50	4	2
N45PPX2211	3.0	20	50	6	2
N45PPX2212	4.0	20	75	4	2
N45PPX2213	4.0	25	100	4	2
N45PPX2214	5.0	23	75	6	2
N45PPX2215	5.0	25	100	6	2
N45PPX2216	6.0	35	100	6	2
N45PPX2217	6.0	40	100	6	2

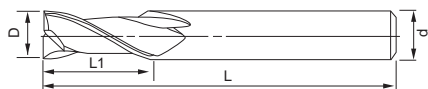
Tungsten steel 2flutes long flat milling cutter

钨钢二刃长刃平铣刀

Code No.	D	L1	L	d	T
N45PPX2218	6.0	40	150	6	2
N45PPX2219	8.0	35	100	8	2
N45PPX2220	8.0	40	100	8	2
N45PPX2221	8.0	40	150	8	2
N45PPX2222	10.0	40	100	10	2
N45PPX2223	10.0	45	100	10	2
N45PPX2224	10.0	45	150	10	2
N45PPX2225	12.0	45	100	12	2
N45PPX2226	12.0	50	100	12	2
N45PPX2227	12.0	50	150	12	2
N45PPX2228	14.0	65	150	14	2
N45PPX2229	14.0	75	150	14	2
N45PPX2230	16.0	65	150	16	2
N45PPX2231	16.0	75	150	16	2
N45PPX2232	20.0	65	150	20	2
N45PPX2233	20.0	75	150	20	2

Tungsten steel 3flutes flat milling cutter

钨钢三刃标准平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金；

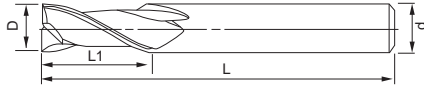
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PPX3101	1.0	3	50	4	3
N45PPX3102	1.5	4.5	50	4	3
N45PPX3103	2.0	6	50	4	3
N45PPX3104	2.5	7.5	50	4	3
N45PPX3105	3.0	9	50	4	3
N45PPX3106	3.0	9	50	3	3
N45PPX3107	4.0	12	50	4	3
N45PPX3108	4.5	14	50	6	3
N45PPX3109	5.0	15	50	6	3
N45PPX3110	5.0	15	50	5	3
N45PPX3111	5.5	16	50	6	3
N45PPX3112	6.0	18	50	6	3
N45PPX3113	7.0	21	60	8	3
N45PPX3114	8.0	25	60	8	3
N45PPX3115	9.0	27	75	10	3
N45PPX3116	10.0	30	75	10	3
N45PPX3117	11.0	30	75	12	3
N45PPX3118	12.0	32	75	12	3
N45PPX3119	14.0	40	100	14	3
N45PPX3120	15.0	42	100	16	3
N45PPX3121	16.0	45	100	16	3
N45PPX3122	17.0	45	100	18	3
N45PPX3123	18.0	45	100	18	3
N45PPX3124	20.0	48	100	20	3

Long shank tungsten steel 3flutes flat milling cutter

钨钢三刃长柄平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

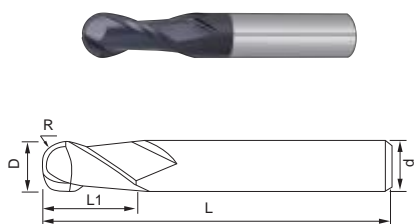
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PPX3125	4.0	12	50	6	3
N45PPX3126	4.0	16	75	4	3
N45PPX3127	4.0	16	75	6	3
N45PPX3128	4.0	16	100	4	3
N45PPX3129	4.0	16	100	6	3
N45PPX3130	5.0	18	75	5	3
N45PPX3131	5.0	18	100	5	3
N45PPX3132	5.0	18	75	6	3
N45PPX3133	5.0	18	100	6	3
N45PPX3134	6.0	22	75	6	3
N45PPX3135	6.0	22	100	6	3
N45PPX3136	6.0	25	150	6	3
N45PPX3137	8.0	25	75	8	3
N45PPX3138	8.0	30	100	8	3
N45PPX3139	8.0	35	150	8	3
N45PPX3140	8.0	40	200	8	3
N45PPX3141	10.0	30	100	10	3
N45PPX3142	10.0	40	150	10	3
N45PPX3143	10.0	45	200	10	3
N45PPX3144	12.0	35	100	12	3
N45PPX3145	12.0	45	150	12	3
N45PPX3146	12.0	45	200	12	3
N45PPX3147	14.0	45	150	14	3
N45PPX3148	14.0	50	200	14	3
N45PPX3149	16.0	50	150	16	3
N45PPX3150	16.0	55	200	16	3
N45PPX3151	18.0	55	150	18	3
N45PPX3152	20.0	55	150	20	3

Tungsten steel 2flutes ballnose milling cutter

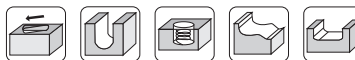
钨钢二刃标准球铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;

UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;

适用于HRC20 ~ HRC45钢、合金钢、铸铁、铝合金；

High precision cutting, excellent cutting ability of cutting edges;

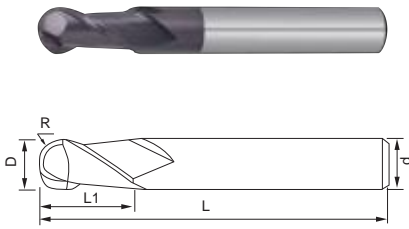
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45QPX2101	1.0	0.50R	2	50	4
N45QPX2102	1.5	0.75R	3	50	4
N45QPX2103	2.0	1.00R	4	50	4
N45QPX2104	2.5	1.25R	5	50	4
N45QPX2105	3.0	1.50R	6	50	4
N45QPX2106	3.5	1.75R	7	50	4
N45QPX2107	4.0	2.00R	8	50	4
N45QPX2108	5.0	2.50R	10	50	6
N45QPX2109	6.0	3.00R	12	50	6
N45QPX2110	7.0	3.50R	14	60	8
N45QPX2111	8.0	4.00R	16	60	8
N45QPX2112	9.0	4.50R	18	75	10
N45QPX2113	10.0	5.00R	20	75	10
N45QPX2114	11.0	5.50R	22	75	12
N45QPX2115	12.0	6.00R	24	75	12
N45QPX2116	13.0	6.50R	26	100	14
N45QPX2117	14.0	7.00R	28	100	14
N45QPX2118	15.0	7.50R	30	100	16
N45QPX2119	16.0	8.00R	32	100	16
N45QPX2120	17.0	8.50R	34	100	18
N45QPX2121	18.0	9.00R	35	100	18
N45QPX2122	20.0	10.00R	36	100	20

Tungsten steel 2flutes long ballnose milling cutter

钨钢二刃加长球铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45QPX2123	1.0	0.50R	2	50	6
N45QPX2124	1.0	0.50R	2	75	4
N45QPX2125	1.0	0.50R	2	75	6
N45QPX2126	1.0	0.50R	2	100	4
N45QPX2127	1.0	0.50R	2	100	6
N45QPX2128	1.5	0.75R	3	50	4
N45QPX2129	1.5	0.75R	3	75	4
N45QPX2130	1.5	0.75R	3	75	6
N45QPX2131	1.5	0.75R	3	100	4
N45QPX2132	1.5	0.75R	3	100	6
N45QPX2133	2.0	1.00R	4	50	6
N45QPX2134	2.0	1.00R	4	75	4
N45QPX2135	2.0	1.00R	4	75	6
N45QPX2136	2.0	1.00R	4	100	4
N45QPX2137	2.0	1.00R	4	100	6
N45QPX2138	2.5	1.25R	5	50	6
N45QPX2139	2.5	1.25R	5	75	4
N45QPX2140	2.5	1.25R	5	75	6
N45QPX2141	2.5	1.25R	5	100	4
N45QPX2142	2.5	1.25R	5	100	6
N45QPX2143	3.0	1.50R	6	50	6
N45QPX2144	3.0	1.50R	6	75	4
N45QPX2145	3.0	1.50R	6	75	6
N45QPX2146	3.0	1.50R	6	100	4
N45QPX2147	3.0	1.50R	6	100	6
N45QPX2148	3.5	1.75R	7	50	6
N45QPX2149	3.5	1.75R	7	75	4
N45QPX2150	3.5	1.75R	7	75	6
N45QPX2151	3.5	1.75R	7	100	4
N45QPX2152	3.5	1.75R	7	100	6
N45QPX2153	4.0	2.00R	8	50	4
N45QPX2154	4.0	2.00R	10	75	6
N45QPX2155	4.0	2.00R	10	75	6
N45QPX2156	4.0	2.00R	10	100	4
N45QPX2157	4.0	2.00R	10	100	6
N45QPX2158	5.0	2.50R	12	75	6

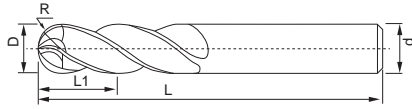
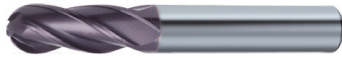
Tungsten steel 2flutes long ballnose milling cutter

钨钢二刃加长球铣刀

Code No.	D	R	L1	L	d
N45QPX2159	5.0	2.50R	12	100	6
N45QPX2160	6.0	3.00R	14	75	6
N45QPX2161	6.0	3.00R	16	100	6
N45QPX2162	6.0	3.00R	20	150	6
N45QPX2163	8.0	4.00R	18	75	8
N45QPX2164	8.0	4.00R	20	100	8
N45QPX2165	8.0	4.00R	22	150	8
N45QPX2166	8.0	4.00R	25	200	8
N45QPX2167	10.0	5.00R	24	100	10
N45QPX2168	10.0	5.00R	26	150	10
N45QPX2169	10.0	5.00R	30	200	10
N45QPX2170	12.0	6.00R	26	100	12
N45QPX2171	12.0	6.00R	30	150	12
N45QPX2172	12.0	6.00R	35	200	12
N45QPX2173	14.0	7.00R	34	150	14
N45QPX2174	14.0	7.00R	40	200	14
N45QPX2175	16.0	8.00R	36	150	16
N45QPX2176	16.0	8.00R	40	200	16
N45QPX2177	20.0	10.00R	40	150	20
N45QPX2178	20.0	10.00R	50	200	20

Tungsten steel 4flutes ballnose milling cutter

钨钢四刃标准球铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

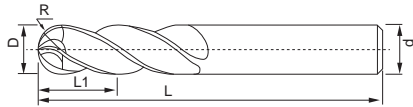
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45QPX4101	1.0	0.50R	2	50	4
N45QPX4102	1.5	0.75R	3	50	4
N45QPX4103	2.0	1.00R	4	50	4
N45QPX4104	2.5	1.25R	5	50	4
N45QPX4105	3.0	1.50R	6	50	4
N45QPX4106	3.5	1.75R	7	50	4
N45QPX4107	4.0	2.00R	8	50	4
N45QPX4108	5.0	2.50R	10	50	6
N45QPX4109	6.0	3.00R	12	50	6
N45QPX4110	7.0	3.50R	14	60	8
N45QPX4111	8.0	4.00R	16	60	8
N45QPX4112	9.0	4.50R	18	75	10
N45QPX4113	10.0	5.00R	20	75	10
N45QPX4114	11.0	5.50R	22	75	12
N45QPX4115	12.0	6.00R	24	75	12
N45QPX4116	13.0	6.50R	26	100	14
N45QPX4117	14.0	7.00R	28	100	14
N45QPX4118	15.0	7.50R	30	100	16
N45QPX4119	16.0	8.00R	32	100	16
N45QPX4120	17.0	8.50R	34	100	18
N45QPX4121	18.0	9.00R	35	100	18
N45QPX4122	20.0	10.00R	36	100	20

Tungsten steel 4flutes long ballnose milling cutter

钨钢四刃加长球铣刀

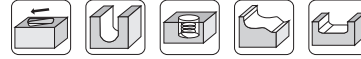


Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金；

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Code No.	D	R	L1	L	d
N45QPX4123	1.0	0.50R	2	50	6
N45QPX4124	1.0	0.50R	2	75	4
N45QPX4125	1.0	0.50R	2	75	6
N45QPX4126	1.0	0.50R	2	100	4
N45QPX4127	1.0	0.50R	2	100	6
N45QPX4128	1.5	0.75R	3	50	4
N45QPX4129	1.5	0.75R	3	75	4
N45QPX4130	1.5	0.75R	3	75	6
N45QPX4131	1.5	0.75R	3	100	4
N45QPX4132	1.5	0.75R	3	100	6
N45QPX4133	2.0	1.00R	4	50	6
N45QPX4134	2.0	1.00R	4	75	4
N45QPX4135	2.0	1.00R	4	75	6
N45QPX4136	2.0	1.00R	4	100	4
N45QPX4137	2.0	1.00R	4	100	6
N45QPX4138	2.5	1.25R	5	50	6
N45QPX4139	2.5	1.25R	5	75	4
N45QPX4140	2.5	1.25R	5	75	6
N45QPX4141	2.5	1.25R	5	100	4
N45QPX4142	2.5	1.25R	5	100	6
N45QPX4143	3.0	1.50R	6	50	6
N45QPX4144	3.0	1.50R	6	75	4
N45QPX4145	3.0	1.50R	6	75	6
N45QPX4146	3.0	1.50R	6	100	4
N45QPX4147	3.0	1.50R	6	100	6
N45QPX4148	3.5	1.75R	7	50	6
N45QPX4149	3.5	1.75R	7	75	4
N45QPX4150	3.5	1.75R	7	75	6
N45QPX4151	3.5	1.75R	7	100	4
N45QPX4152	3.5	1.75R	7	100	6
N45QPX4153	4.0	2.00R	8	50	4
N45QPX4154	4.0	2.00R	10	75	6
N45QPX4155	4.0	2.00R	10	75	6
N45QPX4156	4.0	2.00R	10	100	4
N45QPX4157	4.0	2.00R	10	100	6
N45QPX4158	5.0	2.50R	12	75	6

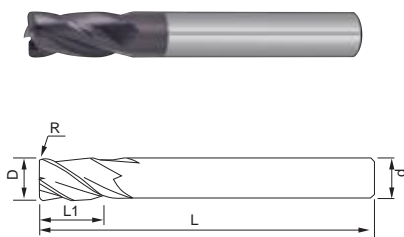
Tungsten steel 4flutes long ballnose milling cutter

钨钢四刃加长球铣刀

Code No.	D	R	L1	L	d
N45QPX4159	5.0	2.50R	12	100	6
N45QPX4160	6.0	3.00R	14	75	6
N45QPX4161	6.0	3.00R	16	100	6
N45QPX4162	6.0	3.00R	20	150	6
N45QPX4163	8.0	4.00R	18	75	8
N45QPX4164	8.0	4.00R	20	100	8
N45QPX4165	8.0	4.00R	22	150	8
N45QPX4166	8.0	4.00R	25	200	8
N45QPX4167	10.0	5.00R	24	100	10
N45QPX4168	10.0	5.00R	26	150	10
N45QPX4169	10.0	5.00R	30	200	10
N45QPX4170	12.0	6.00R	26	100	12
N45QPX4171	12.0	6.00R	30	150	12
N45QPX4172	12.0	6.00R	35	200	12
N45QPX4173	14.0	7.00R	34	150	14
N45QPX4174	14.0	7.00R	40	200	14
N45QPX4175	16.0	8.00R	36	150	16
N45QPX4176	16.0	8.00R	40	200	16
N45QPX4177	20.0	10.00R	40	150	20
N45QPX4178	20.0	10.00R	50	200	20

Tungsten steel 4flutes corner radius milling cutter

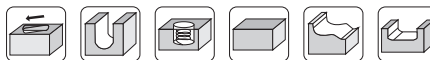
钨钢四刃标准圆鼻铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20 ~ HRC45钢、合金钢、铸铁、铝合金;

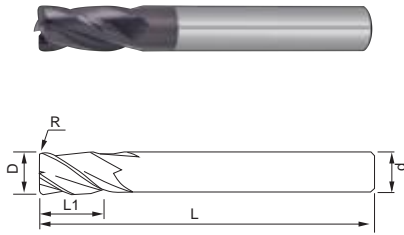
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45YPX4101	1.0	0.20R	3	50	4
N45YPX4102	1.5	0.20R	4.5	50	4
N45YPX4103	2.0	0.20R	6	50	4
N45YPX4104	3.0	0.20R	9	50	4
N45YPX4105	4.0	0.20R	12	50	4
N45YPX4106	4.0	0.50R	12	50	4
N45YPX4107	5.0	0.20R	13	50	6
N45YPX4108	5.0	0.50R	13	50	6
N45YPX4109	6.0	0.20R	15	50	6
N45YPX4110	6.0	0.50R	15	50	6
N45YPX4111	6.0	1.00R	15	50	6
N45YPX4112	8.0	0.50R	20	60	8
N45YPX4113	8.0	1.00R	20	60	8
N45YPX4114	10.0	0.50R	25	75	10
N45YPX4115	10.0	1.00R	25	75	10
N45YPX4116	12.0	0.50R	30	75	12
N45YPX4117	12.0	1.00R	30	75	12
N45YPX4118	14.0	0.50R	40	100	14
N45YPX4119	16.0	0.50R	45	100	16
N45YPX4120	16.0	1.00R	45	100	16
N45YPX4121	20.0	0.50R	45	100	20
N45YPX4122	20.0	1.00R	45	100	20

Tungsten steel 4flutes long corner radius milling cutter

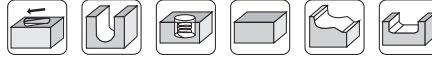
钨钢四刃加长圆鼻铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金；

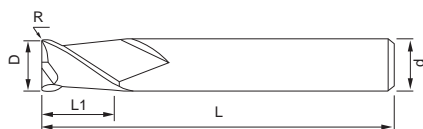
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45YPX4123	1.0	0.20R	4	75	4
N45YPX4124	1.5	0.20R	6	75	4
N45YPX4125	2.0	0.20R	8	75	4
N45YPX4126	3.0	0.20R	12	75	4
N45YPX4127	4.0	0.20R	16	75	4
N45YPX4128	4.0	0.50R	16	75	4
N45YPX4129	5.0	0.20R	18	75	6
N45YPX4130	5.0	0.20R	18	100	6
N45YPX4131	5.0	0.50R	18	75	6
N45YPX4132	5.0	0.50R	18	100	6
N45YPX4133	6.0	0.20R	20	75	6
N45YPX4134	6.0	0.20R	20	100	6
N45YPX4135	6.0	0.50R	20	75	6
N45YPX4136	6.0	0.50R	20	100	6
N45YPX4137	6.0	1.00R	20	75	6
N45YPX4138	6.0	1.00R	20	100	6
N45YPX4139	8.0	0.50R	25	75	8
N45YPX4140	8.0	0.50R	30	100	8
N45YPX4141	8.0	1.00R	25	75	8
N45YPX4142	8.0	1.00R	30	100	8
N45YPX4143	10.0	0.50R	30	100	10
N45YPX4144	10.0	1.00R	30	100	10
N45YPX4145	12.0	0.50R	35	100	12
N45YPX4146	12.0	1.00R	35	100	12
N45YPX4147	16.0	0.50R	55	150	16
N45YPX4148	16.0	1.00R	55	150	16
N45YPX4149	20.0	0.50R	55	150	20
N45YPX4150	20.0	1.00R	55	150	20

Tungsten steel 2flutes corner radius milling cutter

钨钢二刃标准圆鼻铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

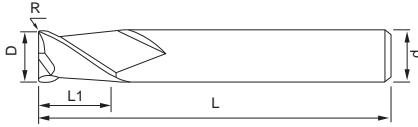
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45YPX2101	1.0	0.20R	3	50	4
N45YPX2102	1.5	0.20R	4.5	50	4
N45YPX2103	2.0	0.20R	6	50	4
N45YPX2104	3.0	0.20R	9	50	4
N45YPX2105	4.0	0.20R	12	50	4
N45YPX2106	4.0	0.50R	12	50	4
N45YPX2107	5.0	0.20R	13	50	6
N45YPX2108	5.0	0.50R	13	50	6
N45YPX2109	6.0	0.20R	15	50	6
N45YPX2110	6.0	0.50R	15	50	6
N45YPX2111	6.0	1.00R	15	50	6
N45YPX2112	8.0	0.50R	20	60	8
N45YPX2113	8.0	1.00R	20	60	8
N45YPX2114	10.0	0.50R	25	75	10
N45YPX2115	10.0	1.00R	25	75	10
N45YPX2116	12.0	0.50R	30	75	12
N45YPX2117	12.0	1.00R	30	75	12
N45YPX2118	14.0	0.50R	40	100	14
N45YPX2119	16.0	0.50R	45	100	16
N45YPX2120	16.0	1.00R	45	100	16
N45YPX2121	20.0	0.50R	45	100	20
N45YPX2122	20.0	1.00R	45	100	20

Tungsten steel 2flutes long corner radius milling cutter

钨钢二刃加长圆鼻铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金；

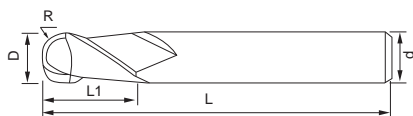
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45YPX2123	1.0	0.20R	4	75	4
N45YPX2124	1.5	0.20R	6	75	4
N45YPX2125	2.0	0.20R	8	75	4
N45YPX2126	3.0	0.20R	12	75	4
N45YPX2127	4.0	0.20R	16	75	4
N45YPX2128	4.0	0.50R	16	75	4
N45YPX2129	5.0	0.20R	18	75	6
N45YPX2130	5.0	0.20R	18	100	6
N45YPX2131	5.0	0.50R	18	75	6
N45YPX2132	5.0	0.50R	18	100	6
N45YPX2133	6.0	0.20R	20	75	6
N45YPX2134	6.0	0.20R	20	100	6
N45YPX2135	6.0	0.50R	20	75	6
N45YPX2136	6.0	0.50R	20	100	6
N45YPX2137	6.0	1.00R	20	75	6
N45YPX2138	6.0	1.00R	20	100	6
N45YPX2139	8.0	0.50R	25	75	8
N45YPX2140	8.0	0.50R	30	100	8
N45YPX2141	8.0	1.00R	25	75	8
N45YPX2142	8.0	1.00R	30	100	8
N45YPX2143	10.0	0.50R	30	100	10
N45YPX2144	10.0	1.00R	30	100	10
N45YPX2145	12.0	0.50R	35	100	12
N45YPX2146	12.0	1.00R	35	100	12
N45YPX2147	16.0	0.50R	55	150	16
N45YPX2148	16.0	1.00R	55	150	16
N45YPX2149	20.0	0.50R	55	150	20
N45YPX2150	20.0	1.00R	55	150	20

Tungsten steel 2flutes ballnose aluminium milling cutter

钨钢二刃标准铝用球铣刀

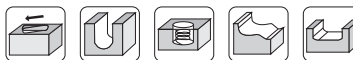


Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;

采用优质钨钢，高亮度研磨，具有良好的排削性能；

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;

适合加工铝，铝合金，其它有色金属；

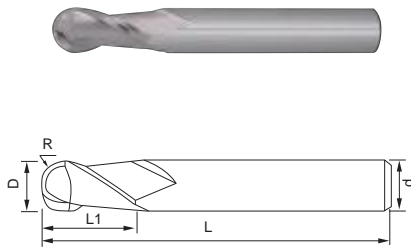
Cutter tip is treated by micro chamfering to reduce machining vibration;

刀尖经过微倒角处理，减少加工震动；

Code No.	D	R	L1	L	d
N45QLX2101	1.0	0.50R	2	50	4
N45QLX2102	1.5	0.75R	3	50	4
N45QLX2103	2.0	1.00R	4	50	4
N45QLX2104	2.5	1.25R	5	50	4
N45QLX2105	3.0	1.50R	6	50	4
N45QLX2106	3.5	1.75R	7	50	4
N45QLX2107	4.0	2.00R	8	50	4
N45QLX2108	5.0	2.50R	10	50	6
N45QLX2109	6.0	3.00R	12	50	6
N45QLX2110	7.0	3.50R	14	60	8
N45QLX2111	8.0	4.00R	16	60	8
N45QLX2112	9.0	4.50R	18	75	10
N45QLX2113	10.0	5.00R	20	75	10
N45QLX2114	11.0	5.50R	22	75	12
N45QLX2115	12.0	6.00R	24	75	12
N45QLX2116	13.0	6.50R	26	100	14
N45QLX2117	14.0	7.00R	28	100	14
N45QLX2118	15.0	7.50R	30	100	16
N45QLX2119	16.0	8.00R	32	100	16
N45QLX2120	17.0	8.50R	34	100	18
N45QLX2121	18.0	9.00R	35	100	18
N45QLX2122	20.0	10.00R	36	100	20

Tungsten steel 2flutes long ballnose aluminium milling cutter

钨钢二刃加长铝用球铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排削性能；

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属；

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45QLX2123	1.0	0.50R	2	50	6
N45QLX2124	1.0	0.50R	2	75	4
N45QLX2125	1.0	0.50R	2	75	6
N45QLX2126	1.0	0.50R	2	100	4
N45QLX2127	1.0	0.50R	2	100	6
N45QLX2128	1.5	0.75R	3	50	6
N45QLX2129	1.5	0.75R	3	75	4
N45QLX2130	1.5	0.75R	3	75	6
N45QLX2131	1.5	0.75R	3	100	4
N45QLX2132	1.5	0.75R	3	100	6
N45QLX2133	2.0	1.00R	4	50	6
N45QLX2134	2.0	1.00R	4	75	4
N45QLX2135	2.0	1.00R	4	75	6
N45QLX2136	2.0	1.00R	4	100	4
N45QLX2137	2.0	1.25R	5	100	6
N45QLX2138	2.5	1.25R	5	50	6
N45QLX2139	2.5	1.25R	5	75	4
N45QLX2140	2.5	1.25R	5	75	6
N45QLX2141	2.5	1.25R	5	100	4
N45QLX2142	2.5	1.25R	5	100	6
N45QLX2143	3.0	1.5R	6	50	6
N45QLX2144	3.0	1.5R	6	75	4
N45QLX2145	3.0	1.5R	6	75	6
N45QLX2146	3.0	1.5R	6	100	4
N45QLX2147	3.0	1.75R	7	100	6
N45QLX2148	3.5	1.75R	7	50	6
N45QLX2149	3.5	1.75R	7	75	4
N45QLX2150	3.5	1.75R	7	75	6
N45QLX2151	3.5	1.75R	7	100	4
N45QLX2152	3.5	1.75R	7	100	6
N45QLX2153	4.0	2.00R	8	50	6
N45QLX2154	4.0	2.00R	10	75	4
N45QLX2155	4.0	2.00R	10	75	6
N45QLX2156	4.0	2.00R	10	100	4
N45QLX2157	4.0	2.00R	10	100	6
N45QLX2158	5.0	2.50R	12	75	6

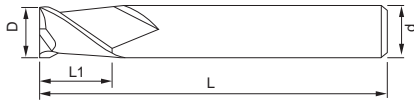
Tungsten steel 2flutes long ballnose aluminium milling cutter

钨钢二刃加长铝用球铣刀

Code No.	D	R	L1	L	d
N45QLX2159	5.0	2.50R	12	100	6
N45QLX2160	6.0	3.00R	14	75	6
N45QLX2161	6.0	3.00R	16	100	6
N45QLX2162	6.0	3.00R	20	150	6
N45QLX2163	8.0	4.00R	18	75	8
N45QLX2164	8.0	4.00R	20	100	8
N45QLX2165	8.0	4.00R	22	150	8
N45QLX2166	8.0	4.00R	25	200	8
N45QLX2167	10.0	5.00R	24	100	10
N45QLX2168	10.0	5.00R	26	150	10
N45QLX2169	10.0	5.00R	30	200	10
N45QLX2170	12.0	6.00R	26	100	12
N45QLX2171	12.0	6.00R	30	150	12
N45QLX2172	12.0	6.00R	35	200	12
N45QLX2173	14.0	7.00R	34	150	14
N45QLX2174	14.0	7.00R	40	200	14
N45QLX2175	16.0	8.00R	36	150	16
N45QLX2176	16.0	8.00R	40	200	16
N45QLX2177	20.0	10.00R	40	150	20
N45QLX2178	20.0	10.00R	50	200	20

Tungsten steel 2flutes aluminium flat milling cutter

钨钢二刃标准铝用平铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排削性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

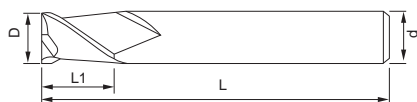
Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PLX2101	1.0	3	50	4	2
N45PLX2102	1.5	5	50	4	2
N45PLX2103	2.0	6	50	4	2
N45PLX2104	2.5	8	50	4	2
N45PLX2105	3.0	9	50	4	2
N45PLX2106	3.5	10	50	4	2
N45PLX2107	4.0	12	50	4	2
N45PLX2108	4.5	14	50	6	2
N45PLX2109	5.0	13	50	6	2
N45PLX2110	5.5	15	50	6	2
N45PLX2111	6.0	18	50	6	2
N45PLX2112	7.0	20	60	8	2
N45PLX2113	8.0	25	60	8	2
N45PLX2114	9.0	25	75	10	2
N45PLX2115	10.0	30	75	10	2
N45PLX2116	11.0	30	75	12	2
N45PLX2117	12.0	30	75	12	2
N45PLX2118	14.0	40	100	14	2
N45PLX2119	15.0	42	100	16	2
N45PLX2120	16.0	45	100	16	2
N45PLX2121	17.0	45	100	18	2
N45PLX2122	18.0	45	100	18	2
N45PLX2123	20.0	48	100	20	2
N45PLX2124	3.0	9	50	3	2
N45PLX2125	5.0	15	50	5	2

Tungsten steel 2flutes long aluminium flat milling cutter

钨钢二刃加长铝用平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Code No.	D	L1	L	d	T
N45PLX2126	1.0	4	75	4	2
N45PLX2127	1.0	4	75	6	2
N45PLX2128	1.0	4	100	4	2
N45PLX2129	1.0	4	100	6	2
N45PLX2130	1.5	4.5	50	6	2
N45PLX2131	1.5	6	75	4	2
N45PLX2132	1.5	6	75	6	2
N45PLX2133	1.5	6	100	4	2
N45PLX2134	1.5	6	100	6	2
N45PLX2135	2.0	6	50	6	2
N45PLX2136	2.0	8	75	4	2
N45PLX2137	2.0	8	100	6	2
N45PLX2138	2.0	8	100	4	2
N45PLX2139	2.0	8	100	6	2
N45PLX2140	2.5	7.5	50	6	2
N45PLX2141	2.5	10	75	4	2
N45PLX2142	2.5	10	75	6	2
N45PLX2143	2.5	10	100	4	2
N45PLX2144	2.5	10	100	6	2
N45PLX2145	3.0	12	75	3	2
N45PLX2146	3.0	12	100	3	2
N45PLX2147	3.0	9	50	6	2
N45PLX2148	3.0	12	75	4	2
N45PLX2149	3.0	12	75	6	2
N45PLX2150	3.0	12	100	4	2
N45PLX2151	3.0	12	100	6	2
N45PLX2152	3.5	10	50	6	2
N45PLX2153	4.0	12	50	6	2
N45PLX2154	4.0	16	75	4	2
N45PLX2155	4.0	16	75	6	2
N45PLX2156	4.0	16	100	4	2
N45PLX2157	4.0	16	100	6	2
N45PLX2158	5.0	18	75	5	2
N45PLX2159	5.0	18	100	5	2
N45PLX2160	5.0	18	75	6	2
N45PLX2161	5.0	18	100	6	2

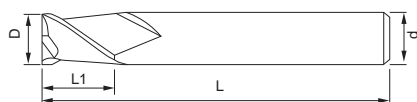
Tungsten steel 2flutes long aluminium flat milling cutter

钨钢二刃加长铝用平铣刀

Code No.	D	L1	L	d	T
N45PLX2162	6.0	22	75	6	2
N45PLX2163	6.0	22	100	6	2
N45PLX2164	6.0	25	150	6	2
N45PLX2165	8.0	30	75	8	2
N45PLX2166	8.0	40	100	8	2
N45PLX2167	8.0	50	150	8	2
N45PLX2168	8.0	50	200	8	2
N45PLX2169	10.0	40	100	10	2
N45PLX2170	10.0	50	150	10	2
N45PLX2171	10.0	50	200	10	2
N45PLX2172	12.0	40	100	12	2
N45PLX2173	12.0	50	150	12	2
N45PLX2174	12.0	50	200	12	2
N45PLX2175	14.0	55	150	14	2
N45PLX2176	14.0	60	200	14	2
N45PLX2177	16.0	60	150	16	2
N45PLX2178	16.0	60	200	16	2
N45PLX2179	18.0	60	150	18	2
N45PLX2180	20.0	60	150	20	2
N45PLX2181	20.0	60	200	20	2

Long shank tungsten steel 2flutes aluminium flat milling cutter

钨钢二刃长刃铝用平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Code No.	D	L1	L	d	T
N45PLX2182	1.0	6	50	4	2
N45PLX2183	1.0	6	50	6	2
N45PLX2184	1.0	8	50	4	2
N45PLX2185	1.0	8	50	6	2
N45PLX2186	1.0	10	50	4	2
N45PLX2187	1.0	10	50	6	2
N45PLX2188	1.5	7	50	5	2
N45PLX2189	1.5	7	50	6	2
N45PLX2190	1.5	9	50	4	2
N45PLX2191	1.5	9	50	6	2
N45PLX2192	1.5	11	50	4	2
N45PLX2193	1.5	11	50	6	2
N45PLX2194	2.0	10	50	4	2
N45PLX2195	2.0	10	50	6	2
N45PLX2196	2.0	13	50	4	2
N45PLX2197	2.0	13	50	6	2
N45PLX2198	2.0	16	50	4	2
N45PLX2199	2.0	16	50	6	2
N45PLX2200	2.5	10	50	4	2
N45PLX2201	2.5	10	50	6	2
N45PLX2202	2.5	14	50	4	2
N45PLX2203	2.5	14	50	6	2
N45PLX2204	2.5	18	50	4	2
N45PLX2205	2.5	18	50	6	2
N45PLX2206	3.0	12	50	4	2
N45PLX2207	3.0	12	50	6	2
N45PLX2208	3.0	16	50	4	2
N45PLX2209	3.0	16	50	6	2
N45PLX2210	3.0	20	50	4	2
N45PLX2211	3.0	20	50	6	2
N45PLX2212	4.0	20	75	4	2
N45PLX2213	4.0	25	100	4	2
N45PLX2214	5.0	23	75	6	2
N45PLX2215	5.0	25	100	6	2
N45PLX2216	6.0	35	100	6	2
N45PLX2217	6.0	40	100	6	2

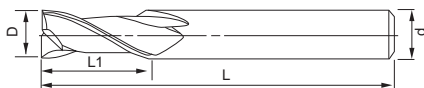
Long shank tungsten steel 2flutes aluminium flat milling cutter

钨钢二刃长刃铝用平铣刀

Code No.	D	L1	L	d	T
N45PLX2218	6.0	50	150	6	2
N45PLX2219	8.0	60	150	8	2
N45PLX2220	10.0	65	150	10	2
N45PLX2221	12.0	75	150	12	2
N45PLX2222	14.0	75	150	14	2
N45PLX2223	16.0	75	150	16	2
N45PLX2224	20.0	75	150	20	2

Tungsten steel 3flutes aluminium flat milling cutter

钨钢三刃标准铝用平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

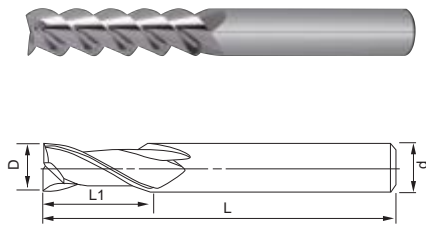
Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Code No.	D	L1	L	d	T
N45PLX3101	1.0	3	50	4	3
N45PLX3102	1.5	4.5	50	4	3
N45PLX3103	2.0	6	50	4	3
N45PLX3104	2.5	7.5	50	4	3
N45PLX3105	3.0	9	50	4	3
N45PLX3106	3.5	10	50	4	3
N45PLX3107	4.0	12	50	4	3
N45PLX3108	4.5	14	50	6	3
N45PLX3109	5.0	13	50	6	3
N45PLX3110	5.5	15	50	6	3
N45PLX3111	6.0	18	50	6	3
N45PLX3112	7.0	20	60	8	3
N45PLX3113	8.0	25	60	8	3
N45PLX3114	9.0	25	75	10	3
N45PLX3115	10.0	30	75	10	3
N45PLX3116	11.0	30	75	12	3
N45PLX3117	12.0	30	75	12	3
N45PLX3118	14.0	40	100	14	3
N45PLX3119	15.0	42	100	16	3
N45PLX3120	16.0	45	100	16	3
N45PLX3121	17.0	45	100	18	3
N45PLX3122	18.0	45	100	18	3
N45PLX3123	20.0	48	100	20	3
N45PLX3124	3.0	9	50	3	3
N45PLX3125	5.0	15	50	5	3

Tungsten steel 3flutes long aluminium milling cutter

钨钢三刃加长铝用铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排削性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PLX3126	1.0	4	75	4	3
N45PLX3127	1.0	4	75	6	3
N45PLX3128	1.0	4	100	4	3
N45PLX3129	1.0	4	100	6	3
N45PLX3130	1.5	6	50	6	3
N45PLX3131	1.5	6	75	4	3
N45PLX3132	1.5	6	75	6	3
N45PLX3133	1.5	6	100	4	3
N45PLX3134	1.5	6	100	6	3
N45PLX3135	2.0	6	50	6	3
N45PLX3136	2.0	8	75	4	3
N45PLX3137	2.0	8	100	6	3
N45PLX3138	2.0	8	100	4	3
N45PLX3139	2.0	8	100	6	3
N45PLX3140	2.5	10	50	6	3
N45PLX3141	2.5	10	75	4	3
N45PLX3142	2.5	10	75	6	3
N45PLX3143	2.5	10	100	4	3
N45PLX3144	2.5	10	100	6	3
N45PLX3145	3.0	12	75	3	3
N45PLX3146	3.0	12	100	3	3
N45PLX3147	3.0	12	50	6	3
N45PLX3148	3.0	12	75	4	3
N45PLX3149	3.0	12	75	6	3
N45PLX3150	3.0	12	100	4	3
N45PLX3151	3.0	12	100	6	3
N45PLX3152	3.5	10	50	6	3
N45PLX3153	4.0	12	50	6	3
N45PLX3154	4.0	16	75	4	3
N45PLX3155	4.0	16	75	6	3
N45PLX3156	4.0	16	100	4	3
N45PLX3157	4.0	16	100	6	3
N45PLX3158	5.0	18	75	5	3
N45PLX3159	5.0	18	100	5	3
N45PLX3160	5.0	18	75	6	3
N45PLX3161	5.0	18	100	6	3

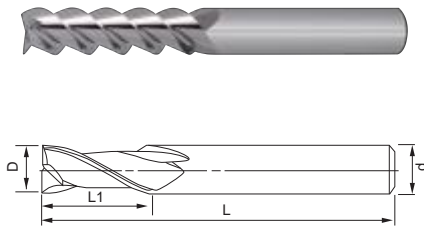
Tungsten steel 3flutes long aluminium milling cutter

钨钢三刃加长铝用铣刀

Code No.	D	L1	L	d	T
N45PLX3162	6.0	22	75	6	3
N45PLX3163	6.0	22	100	6	3
N45PLX3164	6.0	25	150	6	3
N45PLX3165	8.0	30	75	8	3
N45PLX3166	8.0	40	100	8	3
N45PLX3167	8.0	50	150	8	3
N45PLX3168	8.0	50	200	8	3
N45PLX3169	10.0	40	100	10	3
N45PLX3170	10.0	50	150	10	3
N45PLX3171	10.0	50	200	10	3
N45PLX3172	12.0	40	100	12	3
N45PLX3173	12.0	50	150	12	3
N45PLX3174	12.0	50	200	12	3
N45PLX3175	14.0	55	150	14	3
N45PLX3176	14.0	60	200	14	2
N45PLX3177	16.0	60	150	16	3
N45PLX3178	16.0	60	200	16	3
N45PLX3179	18.0	60	150	18	3
N45PLX3180	20.0	60	150	20	3
N45PLX3181	20.0	60	200	20	3

Long shank tungsten steel 3flutes aluminium milling cutter

钨钢三刃长刃铝用铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能；

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属；

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PLX3182	1.0	6	50	4	3
N45PLX3183	1.0	6	50	6	3
N45PLX3184	1.0	8	50	4	3
N45PLX3185	1.0	8	50	6	3
N45PLX3186	1.0	10	50	4	3
N45PLX3187	1.0	10	50	6	3
N45PLX3188	1.5	7	50	5	3
N45PLX3189	1.5	7	50	6	3
N45PLX3190	1.5	9	50	4	3
N45PLX3191	1.5	9	50	6	3
N45PLX3192	1.5	11	50	4	3
N45PLX3193	1.5	11	50	6	3
N45PLX3194	2.0	10	50	4	3
N45PLX3195	2.0	10	50	6	3
N45PLX3196	2.0	13	50	4	3
N45PLX3197	2.0	13	50	6	3
N45PLX3198	2.0	16	50	4	3
N45PLX3199	2.0	16	50	6	3
N45PLX3200	2.5	10	50	4	3
N45PLX3201	2.5	10	50	6	3
N45PLX3202	2.5	14	50	4	3
N45PLX3203	2.5	14	50	6	3
N45PLX3204	2.5	18	50	4	3
N45PLX3205	2.5	18	50	6	3
N45PLX3206	3.0	12	50	4	3
N45PLX3207	3.0	12	50	6	3
N45PLX3208	3.0	16	50	4	3
N45PLX3209	3.0	16	50	6	3
N45PLX3210	3.0	20	50	4	3
N45PLX3211	3.0	20	50	6	3
N45PLX3212	4.0	20	75	4	3
N45PLX3213	4.0	25	100	4	3
N45PLX3214	5.0	23	75	6	3
N45PLX3215	5.0	25	100	6	3
N45PLX3216	6.0	35	100	6	3
N45PLX3217	6.0	40	100	6	3

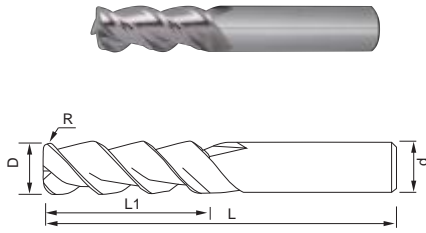
Long shank tungsten steel 3flutes aluminium milling cutter

钨钢三刃长刃铝用铣刀

Code No.	D	L1	L	d	T
N45PLX3218	6.0	50	150	6	3
N45PLX3219	8.0	60	150	8	3
N45PLX3220	10.0	65	150	10	3
N45PLX3221	12.0	75	150	12	3
N45PLX3222	14.0	75	150	14	3
N45PLX3223	16.0	75	150	16	3
N45PLX3224	20.0	75	150	20	3

Tungsten steel 3flutes aluminium corner radius milling cutter

钨钢三刃标准铝用圆鼻铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

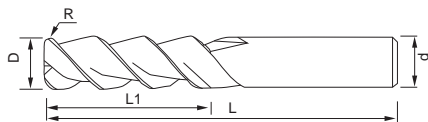
Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
N45YLX3101	4.0	0.50R	12	50	4
N45YLX3102	5.0	0.50R	13	50	6
N45YLX3103	6.0	0.50R	15	50	6
N45YLX3104	6.0	1.00R	15	50	6
N45YLX3105	8.0	0.50R	20	60	8
N45YLX3106	8.0	1.00R	20	60	8
N45YLX3107	8.0	1.50R	20	60	8
N45YLX3108	8.0	2.00R	20	60	8
N45YLX3109	10.0	0.50R	25	75	10
N45YLX3110	10.0	1.00R	25	75	10
N45YLX3111	10.0	1.50R	25	75	10
N45YLX3112	10.0	2.00R	25	75	10
N45YLX3113	12.0	0.50R	30	75	12
N45YLX3114	12.0	1.00R	30	75	12
N45YLX3115	12.0	1.50R	30	75	12
N45YLX3116	12.0	2.00R	30	75	12
N45YLX3117	14.0	0.50R	40	100	14
N45YLX3118	16.0	0.50R	45	100	16
N45YLX3119	16.0	1.00R	45	100	16
N45YLX3120	16.0	2.00R	45	100	16
N45YLX3121	20.0	1.00R	45	100	20
N45YLX3122	20.0	2.00R	45	100	20

Tungsten steel 3flutes long aluminium corner radius milling cutter

钨钢三刃加长铝用圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;

采用优质钨钢，高亮度研磨，具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;

适合加工铝，铝合金，其它有色金属;

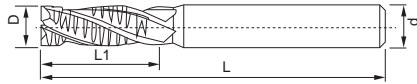
Cutter tip is treated by micro chamfering to reduce machining vibration;

刀尖经过微倒角处理，减少加工震动;

Code No.	D	R	L1	L	d
N45YLX3123	4.0	0.50R	16	75	4
N45YLX3124	5.0	0.50R	18	75	6
N45YLX3125	5.0	0.50R	18	100	6
N45YLX3126	6.0	0.50R	20	75	6
N45YLX3127	6.0	0.50R	20	100	6
N45YLX3128	6.0	1.00R	20	75	6
N45YLX3129	6.0	1.00R	20	100	6
N45YLX3130	8.0	0.50R	25	75	8
N45YLX3131	8.0	0.50R	30	100	8
N45YLX3132	8.0	1.00R	25	75	8
N45YLX3133	8.0	1.00R	30	100	8
N45YLX3134	8.0	1.50R	25	75	8
N45YLX3135	8.0	1.50R	30	100	8
N45YLX3136	8.0	2.00R	25	75	8
N45YLX3137	8.0	2.00R	30	100	8
N45YLX3138	10.0	0.50R	30	100	10
N45YLX3139	10.0	1.00R	30	100	10
N45YLX3140	10.0	1.50R	30	100	10
N45YLX3141	10.0	2.00R	30	100	10
N45YLX3142	12.0	0.50R	35	100	12
N45YLX3143	12.0	1.00R	35	100	12
N45YLX3144	12.0	1.50R	35	100	12
N45YLX3145	12.0	2.00R	35	100	12
N45YLX3146	16.0	0.50R	55	150	16
N45YLX3147	16.0	1.00R	55	150	16
N45YLX3148	16.0	2.00R	55	150	16
N45YLX3149	20.0	0.50R	55	150	20
N45YLX3150	20.0	1.00R	55	150	20
N45YLX3151	20.0	2.00R	55	150	20

Tungsten steel 3flutes aluminium rough milling cutter

钨钢三刃标准铝用粗皮铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

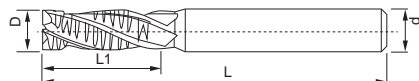
Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N45PLC3101	4.0	12	50	4	3
N45PLC3102	6.0	18	50	6	3
N45PLC3103	7.0	20	60	8	3
N45PLC3104	8.0	25	60	8	3
N45PLC3105	9.0	25	75	10	3
N45PLC3106	10.0	30	75	10	3
N45PLC3107	11.0	30	75	12	3
N45PLC3108	12.0	30	75	12	3
N45PLC3109	14.0	40	100	14	3
N45PLC3110	16.0	45	100	16	3
N45PLC3111	20.0	48	100	20	3
N45PLC3112	8.0	30	100	8	3
N45PLC3113	8.0	35	150	8	3
N45PLC3114	10.0	35	100	10	3
N45PLC3115	10.0	40	150	10	3
N45PLC3116	12.0	40	100	12	3
N45PLC3117	12.0	50	150	12	3
N45PLC3118	16.0	60	150	16	3
N45PLC3119	16.0	70	200	16	3
N45PLC3120	20.0	60	150	20	3
N45PLC3121	20.0	75	200	20	3

Tungsten steel 4flutes rough milling cutter

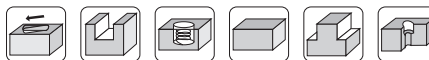
钨钢四刃标准粗皮铣刀



Material



Processing graphics



Using high quality tungsten steel, special coating has good cutting performance;

采用优质钨钢，特殊涂层具有良好的排屑性能；

Suitable for processing hardness HRC20~HRC45, steel, cast iron, alloy steel;

适合加工硬度HRC20~HRC45，钢，铸铁，合金钢；

Large cutting depth, large feed, rough processing, effectively improve production efficiency;

大切深，大进给，粗加工，有效提高生产效率；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

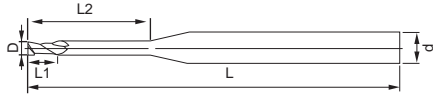
Code No.	D	L1	L	d	T
N45PPC4101	4.0	12	50	4	4
N45PPC4102	6.0	18	50	6	4
N45PPC4103	7.0	20	60	8	4
N45PPC4104	8.0	25	60	8	4
N45PPC4105	9.0	25	75	10	4
N45PPC4106	10.0	30	75	10	4
N45PPC4107	11.0	30	75	12	4
N45PPC4108	12.0	30	75	12	4
N45PPC4109	14.0	40	100	14	4
N45PPC4110	16.0	45	100	16	4
N45PPC4111	20.0	48	100	20	4
N45PPC4112	8.0	30	100	8	4
N45PPC4113	8.0	35	150	8	4
N45PPC4114	10.0	35	100	10	4
N45PPC4115	10.0	40	150	10	4
N45PPC4116	12.0	40	100	12	4
N45PPC4117	12.0	50	150	12	4
N45PPC4118	16.0	60	150	16	4
N45PPC4119	16.0	70	200	16	4
N45PPC4120	20.0	60	150	20	4
N45PPC4121	20.0	75	200	20	4

N450 deep groove cutter Series



Tungsten steel 2 flutes deep hook flat milling cutter

钨钢二刃深沟标准平铣刀



Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used, Can be processed the materials below HRC45, It belongs to general material processing, such as steel, cast iron, and other non-ferrous metals;

应用广泛, HRC45以下材料加工, 属于通用型材料加工, 如钢、铸铁、和其它非铁金属;

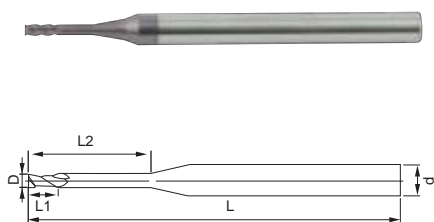
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L2	L	d	T
N45PSX2101	1.0	3	6	50	4	2
N45PSX2102	1.0	3	6	75	4	2
N45PSX2103	1.0	3	9	50	4	2
N45PSX2104	1.0	3	9	75	4	2
N45PSX2105	1.0	3	12	50	4	2
N45PSX2106	1.0	3	12	75	4	2
N45PSX2107	1.5	4	9	50	4	2
N45PSX2108	1.5	4	9	75	4	2
N45PSX2109	1.5	4	12	50	4	2
N45PSX2110	1.5	4	12	75	4	2
N45PSX2111	1.5	4	15	50	4	2
N45PSX2112	1.5	4	15	75	4	2
N45PSX2113	2.0	6	9	50	4	2
N45PSX2114	2.0	6	9	75	4	2
N45PSX2115	2.0	6	12	50	4	2
N45PSX2116	2.0	6	12	75	4	2
N45PSX2117	2.0	6	15	50	4	2
N45PSX2118	2.0	6	15	75	4	2
N45PSX2119	2.5	7	12	50	4	2
N45PSX2120	2.5	7	12	75	4	2
N45PSX2121	2.5	7	16	50	4	2
N45PSX2122	2.5	7	16	75	4	2
N45PSX2123	3.0	9	15	50	4	2
N45PSX2124	3.0	9	15	75	4	2
N45PSX2125	3.0	9	20	50	4	2
N45PSX2126	3.0	9	20	75	4	2
N45PSX2127	4.0	10	20	50	4	2
N45PSX2128	4.0	10	20	75	4	2
N45PSX2129	4.0	10	25	75	4	2
N45PSX2130	4.0	10	20	50	4	2
N45PSX2131	4.0	10	20	75	4	2
N45PSX2132	4.0	10	25	75	4	2

Tungsten steel 4 flutes deep hook flat milling cutter

钨钢四刃深勾标准平铣刀



Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used, Can be processed the materials below HRC45, It belongs to general material processing, such as steel, cast iron, and other non-ferrous metals;

应用广泛，HRC45以下材料加工，属于通用型材料加工，如钢、铸铁、和其它非铁金属；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

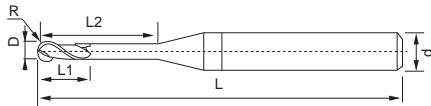
Code No.	D	L1	L2	L	d	T
N45PSX4101	1.0	3	6	50	4	4
N45PSX4102	1.0	3	6	75	4	4
N45PSX4103	1.0	3	9	50	4	4
N45PSX4104	1.0	3	9	75	4	4
N45PSX4105	1.0	3	12	50	4	4
N45PSX4106	1.0	3	12	75	4	4
N45PSX4107	1.5	4	9	50	4	4
N45PSX4108	1.5	4	9	75	4	4
N45PSX4109	1.5	4	12	50	4	4
N45PSX4110	1.5	4	12	75	4	4
N45PSX4111	1.5	4	15	50	4	4
N45PSX4112	1.5	4	15	75	4	4
N45PSX4113	2.0	6	9	50	4	4
N45PSX4114	2.0	6	9	75	4	4
N45PSX4115	2.0	6	12	50	4	4
N45PSX4116	2.0	6	12	75	4	4
N45PSX4117	2.0	6	15	50	4	4
N45PSX4118	2.0	6	15	75	4	4
N45PSX4119	2.5	7	12	50	4	4
N45PSX4120	2.5	7	12	75	4	4
N45PSX4121	2.5	7	16	50	4	4
N45PSX4122	2.5	7	16	75	4	4
N45PSX4123	3.0	9	15	50	4	4
N45PSX4124	3.0	9	15	75	4	4
N45PSX4125	3.0	9	20	50	4	4
N45PSX4126	3.0	9	20	75	4	4
N45PSX4127	4.0	10	20	50	4	4
N45PSX4128	4.0	10	20	75	4	4
N45PSX4129	4.0	10	25	75	4	4
N45PSX4130	4.0	10	20	50	4	4
N45PSX4131	4.0	10	20	75	4	4
N45PSX4132	4.0	10	25	75	4	4

N450 deep groove cutter Series



Tungsten steel 4 flutes deep hook ballnose milling cutter

钨钢四刃深勾标准球铣刀

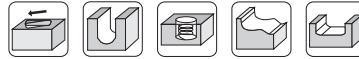


Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔模具加工，特殊涂层具有优异的耐磨性，减少了摩擦系数;

It is widely used, Can be processed the materials below HRC45, It belongs to general material processing, such as steel, cast iron, and other non-ferrous metals;

应用广泛，HRC45以下材料加工，属于通用型材料加工，如钢、铸铁、和其它非铁金属;

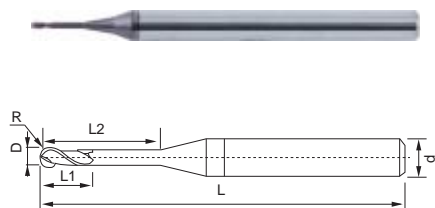
The R angle is lapped with high precision, and the product has high precision;

R角经过高精密度研磨，产品精度较高;

Code No.	D	R	L1	L2	L	d	T
N45QSX4101	1.0	0.50R	3	6	50	4	4
N45QSX4102	1.0	0.50R	3	6	75	4	4
N45QSX4103	1.0	0.50R	3	9	50	4	4
N45QSX4104	1.0	0.50R	3	9	75	4	4
N45QSX4105	1.0	0.50R	3	12	50	4	4
N45QSX4106	1.0	0.50R	3	12	75	4	4
N45QSX4107	1.5	0.75R	4	9	50	4	4
N45QSX4108	1.5	0.75R	4	9	75	4	4
N45QSX4109	1.5	0.75R	4	12	50	4	4
N45QSX4110	1.5	0.75R	4	12	75	4	4
N45QSX4111	1.5	0.75R	4	15	50	4	4
N45QSX4112	1.5	0.75R	4	15	75	4	4
N45QSX4113	2.0	1.00R	6	9	50	4	4
N45QSX4114	2.0	1.00R	6	9	75	4	4
N45QSX4115	2.0	1.00R	6	12	50	4	4
N45QSX4116	2.0	1.00R	6	12	75	4	4
N45QSX4117	2.0	1.00R	6	15	50	4	4
N45QSX4118	2.0	1.00R	6	15	75	4	4
N45QSX4119	2.5	1.25R	7	12	50	4	4
N45QSX4120	2.5	1.25R	7	12	75	4	4
N45QSX4121	2.5	1.25R	7	16	50	4	4
N45QSX4122	2.5	1.25R	7	16	75	4	4
N45QSX4123	3.0	1.50R	9	15	50	4	4
N45QSX4124	3.0	1.50R	9	15	75	4	4
N45QSX4125	3.0	1.50R	9	20	50	4	4
N45QSX4126	3.0	1.50R	9	20	75	4	4
N45QSX4127	4.0	2.00R	10	20	50	4	4
N45QSX4128	4.0	2.00R	10	20	75	4	4
N45QSX4129	4.0	2.00R	10	25	75	4	4
N45QSX4130	4.0	2.00R	10	20	50	4	4
N45QSX4131	4.0	2.00R	10	20	75	4	4
N45QSX4132	4.0	2.00R	10	25	75	4	4

Tungsten steel 2 flutes deep hook ballnose milling cutter

钨钢二刃深勾标准球铣刀



Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔模具加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used, Can be processed the materials below HRC45, It belongs to general material processing, such as steel, cast iron, and other non-ferrous metals;

应用广泛, HRC45以下材料加工, 属于通用型材料加工, 如钢、铸铁、和其它非铁金属;

The R angle is lapped with high precision, and the product has high precision;

R角经过高精度研磨, 产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L2	L	d	T
N45QSX2101	1.0	0.50R	3	6	50	4	2
N45QSX2102	1.0	0.50R	3	6	75	4	2
N45QSX2103	1.0	0.50R	3	9	50	4	2
N45QSX2104	1.0	0.50R	3	9	75	4	2
N45QSX2105	1.0	0.50R	3	12	50	4	2
N45QSX2106	1.0	0.50R	3	12	75	4	2
N45QSX2107	1.5	0.75R	4	9	50	4	2
N45QSX2108	1.5	0.75R	4	9	75	4	2
N45QSX2109	1.5	0.75R	4	12	50	4	2
N45QSX2110	1.5	0.75R	4	12	75	4	2
N45QSX2111	1.5	0.75R	4	15	50	4	2
N45QSX2112	1.5	0.75R	4	15	75	4	2
N45QSX2113	2.0	1.00R	6	9	50	4	2
N45QSX2114	2.0	1.00R	6	9	75	4	2
N45QSX2115	2.0	1.00R	6	12	50	4	2
N45QSX2116	2.0	1.00R	6	12	75	4	2
N45QSX2117	2.0	1.00R	6	15	50	4	2
N45QSX2118	2.0	1.00R	6	15	75	4	2
N45QSX2119	2.5	1.25R	7	12	50	4	2
N45QSX2120	2.5	1.25R	7	12	75	4	2
N45QSX2121	2.5	1.25R	7	16	50	4	2
N45QSX2122	2.5	1.25R	7	16	75	4	2
N45QSX2123	3.0	1.50R	9	15	50	4	2
N45QSX2124	3.0	1.50R	9	15	75	4	2
N45QSX2125	3.0	1.50R	9	20	50	4	2
N45QSX2126	3.0	1.50R	9	20	75	4	2
N45QSX2127	4.0	2.00R	10	20	50	4	2
N45QSX2128	4.0	2.00R	10	20	75	4	2
N45QSX2129	4.0	2.00R	10	25	75	4	2
N45QSX2130	4.0	2.00R	10	20	50	4	2
N45QSX2131	4.0	2.00R	10	20	75	4	2
N45QSX2132	4.0	2.00R	10	25	75	4	2

Recommended Cutting Conditions

推荐切削参数

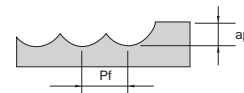
Working material	Carbon steel (S45C、S55C、Q235)		Alloy steel (HRC25-35 SCM、SKT、SKS、SKD)		Non-ferrous metal (AL、ADC、CU)		Cast iron (HT250、QT450)	
Vc	80-150(m/min)		60-100(m/min)		300-500(m/min)		60-120(m/min)	
Diameter	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)
1.0mm	41,000	0.013	27,000	0.011	95,000	0.013	31,000	0.013
1.5mm	27,600	0.015	18,000	0.012	63,000	0.014	21,000	0.014
2.0mm	20,700	0.016	13,500	0.013	47,000	0.015	16,000	0.015
2.5mm	16,500	0.016	10,800	0.015	38,000	0.018	12,700	0.016
3.0mm	1,380	0.017	9,000	0.160	31,000	0.021	10,600	0.017
4.0mm	10,300	0.023	6,700	0.021	23,000	0.290	8,000	0.023
5.0mm	8,200	0.030	5,400	0.025	19,000	0.035	63,000	0.025
6.0mm	6,900	0.034	4,500	0.031	16,000	0.043	53,000	0.035
8.0mm	5,100	0.046	3,300	0.041	12,000	0.057	3,900	0.046
10.0mm	4,100	0.066	2,700	0.058	95,000	0.088	3,100	0.066
12.0mm	3,400	0.079	2,200	0.069	8,000	0.106	2,600	0.079
14.0mm	2,900	0.090	1,900	0.080	6,800	0.120	2,200	0.090
16.0mm	2,500	0.110	1,600	0.090	5,900	0.140	2,000	0.110
20.0mm	2,000	0.130	1,300	0.120	47,000	0.180	1,600	0.130

Milling Amount (mm)



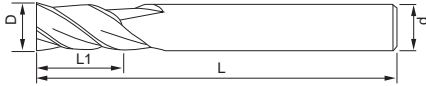
ap	ae	ap	ae	ap	ae
1.5D	0.05D	1.5D	0.03D	1.0D	0.02D
aeMax ≤ 1.0mm		aeMax ≤ 0.5mm		aeMax ≤ 0.5mm	

	ap	Pf
R ≤ 8	0.02D	0.1D
R > 8	0.32mm	0.1D



Tungsten steel 4flutes flat milling cutter

钨钢四刃标准平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, stainless steel, Cast Iron, stainless steel;
适用于HRC30 ~ HRC45钢、合金钢、铸铁、不锈钢;

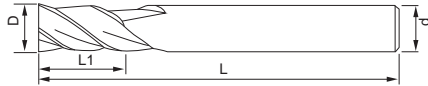
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PPX4101	1.0	3	50	4	4
N55PPX4102	1.5	4.5	50	4	4
N55PPX4103	2.0	6	50	4	4
N55PPX4104	2.5	7.5	50	4	4
N55PPX4105	3.0	9	50	4	4
N55PPX4106	3.0	9	50	3	4
N55PPX4107	3.5	10	50	4	4
N55PPX4108	4.0	12	50	4	4
N55PPX4109	4.5	13	50	6	4
N55PPX4110	5.0	15	50	6	4
N55PPX4111	5.0	15	50	5	4
N55PPX4112	5.5	16	50	6	4
N55PPX4113	6.0	15	50	6	4
N55PPX4114	6.0	18	50	6	4
N55PPX4115	7.0	20	60	8	4
N55PPX4116	8.0	20	60	8	4
N55PPX4117	8.0	25	60	8	4
N55PPX4118	9.0	27	75	10	4
N55PPX4119	10.0	25	75	10	4
N55PPX4120	10.0	30	75	10	4
N55PPX4121	11.0	30	75	12	4
N55PPX4122	12.0	30	75	12	4
N55PPX4123	12.0	35	75	12	4
N55PPX4124	13.0	40	100	13	4
N55PPX4125	14.0	40	100	14	4
N55PPX4126	15.0	42	100	16	4
N55PPX4127	16.0	45	100	16	4
N55PPX4128	17.0	45	100	18	4
N55PPX4129	18.0	45	100	18	4
N55PPX4130	19.0	45	100	20	4
N55PPX4131	20.0	48	100	20	4

Long shank tungsten steel 4flutes flat milling cutter

钨钢四刃长柄平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢；

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PPX4132	1.0	3	50	6	4
N55PPX4133	1.0	4	75	4	4
N55PPX4134	1.0	4	75	6	4
N55PPX4135	1.0	4	100	4	4
N55PPX4136	1.0	4	100	6	4
N55PPX4137	1.5	5	50	6	4
N55PPX4138	1.5	6	75	4	4
N55PPX4139	1.5	6	75	6	4
N55PPX4140	1.5	6	100	4	4
N55PPX4141	1.5	6	100	6	4
N55PPX4142	2.0	6	50	6	4
N55PPX4143	2.0	8	75	4	4
N55PPX4144	2.0	8	100	6	4
N55PPX4145	2.0	8	100	4	4
N55PPX4146	2.0	8	100	6	4
N55PPX4147	2.5	8	50	6	4
N55PPX4148	2.5	10	75	4	4
N55PPX4149	2.5	10	75	6	4
N55PPX4150	2.5	10	100	4	4
N55PPX4151	2.5	10	100	6	4
N55PPX4152	3.0	12	75	3	4
N55PPX4153	3.0	12	100	3	4
N55PPX4154	3.0	9	50	6	4
N55PPX4155	3.0	12	75	4	4
N55PPX4156	3.0	12	75	6	4
N55PPX4157	3.0	12	100	4	4
N55PPX4158	3.0	12	100	6	4
N55PPX4159	3.5	10	50	6	4
N55PPX4160	4.0	12	50	6	4
N55PPX4161	4.0	16	75	4	4
N55PPX4162	4.0	16	75	6	4
N55PPX4163	4.0	16	100	4	4
N55PPX4164	4.0	16	100	6	4
N55PPX4165	5.0	18	75	5	4
N55PPX4166	5.0	18	100	5	4
N55PPX4167	5.0	18	75	6	4



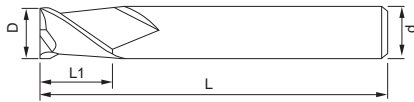
Long shank tungsten steel 4flutes flat milling cutter

钨钢四刃长柄平铣刀

Code No.	D	L1	L	d	T
N55PPX4168	5.0	18	100	6	4
N55PPX4169	6.0	22	75	6	4
N55PPX4170	6.0	22	100	6	4
N55PPX4171	6.0	25	150	6	4
N55PPX4172	8.0	25	75	8	4
N55PPX4173	8.0	30	100	8	4
N55PPX4174	8.0	35	150	8	4
N55PPX4175	8.0	40	200	8	4
N55PPX4176	10.0	30	100	10	4
N55PPX4177	10.0	40	150	10	4
N55PPX4178	10.0	45	200	10	4
N55PPX4179	12.0	35	100	12	4
N55PPX4180	12.0	45	150	12	4
N55PPX4181	12.0	45	200	12	4
N55PPX4182	14.0	45	150	14	4
N55PPX4183	14.0	50	200	14	4
N55PPX4184	16.0	50	150	16	4
N55PPX4185	16.0	55	200	16	4
N55PPX4186	18.0	55	150	18	4
N55PPX4187	20.0	55	150	20	4
N55PPX4188	20.0	55	200	20	4

Tungsten steel 4flutes long flat milling cutter

钨钢四刃长刃平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢；

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PPX4189	1.0	6	50	4	4
N55PPX4190	1.0	6	50	6	4
N55PPX4191	1.0	8	50	4	4
N55PPX4192	1.0	8	50	6	4
N55PPX4193	1.0	10	50	4	4
N55PPX4194	1.0	10	50	6	4
N55PPX4195	1.5	7	50	4	4
N55PPX4196	1.5	7	50	6	4
N55PPX4197	1.5	9	50	4	4
N55PPX4198	1.5	9	50	6	4
N55PPX4199	1.5	11	50	4	4
N55PPX4200	1.5	11	50	6	4
N55PPX4201	2.0	10	50	4	4
N55PPX4202	2.0	10	50	6	4
N55PPX4203	2.0	13	50	4	4
N55PPX4204	2.0	13	50	6	4
N55PPX4205	2.0	16	50	4	4
N55PPX4206	2.0	16	50	6	4
N55PPX4207	2.5	10	50	4	4
N55PPX4208	2.5	10	50	6	4
N55PPX4209	2.5	14	50	4	4
N55PPX4210	2.5	14	50	6	4
N55PPX4211	2.5	18	50	4	4
N55PPX4212	2.5	18	50	6	4
N55PPX4213	3.0	12	50	4	4
N55PPX4214	3.0	12	50	6	4
N55PPX4215	3.0	16	50	4	4
N55PPX4216	3.0	16	50	6	4
N55PPX4217	3.0	20	50	4	4
N55PPX4218	3.0	20	50	6	4
N55PPX4219	4.0	20	75	4	4
N55PPX4220	4.0	25	100	4	4
N55PPX4221	5.0	23	75	6	4
N55PPX4222	5.0	25	100	6	4
N55PPX4223	6.0	35	100	6	4
N55PPX4224	6.0	40	100	6	4



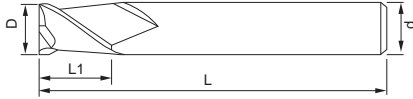
Tungsten steel 4flutes long flat milling cutter

钨钢四刃长刃平铣刀

Code No.	D	L1	L	d	T
N55PPX4225	6.0	40	150	6	4
N55PPX4226	8.0	35	100	8	4
N55PPX4227	8.0	40	100	8	4
N55PPX4228	8.0	40	150	8	4
N55PPX4229	10.0	45	100	10	4
N55PPX4230	10.0	50	100	10	4
N55PPX4231	10.0	50	150	10	4
N55PPX4232	12.0	45	100	12	4
N55PPX4233	12.0	50	100	12	4
N55PPX4234	12.0	50	150	12	4
N55PPX4235	14.0	65	150	14	4
N55PPX4236	14.0	75	150	14	4
N55PPX4237	16.0	65	150	16	4
N55PPX4238	16.0	75	150	16	4
N55PPX4239	20.0	65	150	20	4
N55PPX4240	20.0	75	150	20	4

Tungsten steel 2flutes flat milling cutter

钨钢二刃标准平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC30 to ~ HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30 ~ HRC45钢、合金钢、铸铁、不锈钢；

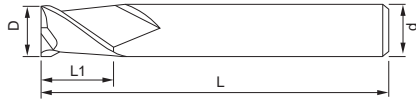
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PPX2101	1.0	3	50	4	2
N55PPX2102	1.5	4.5	50	4	2
N55PPX2103	2.0	6	50	4	2
N55PPX2104	2.5	7.5	50	4	2
N55PPX2105	3.0	9	50	4	2
N55PPX2106	3.0	9	50	3	2
N55PPX2107	4.0	12	50	4	2
N55PPX2108	4.5	13	50	6	2
N55PPX2109	5.0	13	50	6	2
N55PPX2110	5.0	15	50	5	2
N55PPX2111	5.5	15	50	6	2
N55PPX2112	6.0	15	50	6	2
N55PPX2113	7.0	20	60	8	2
N55PPX2114	8.0	20	60	8	2
N55PPX2115	9.0	25	75	10	2
N55PPX2116	10.0	25	75	10	2
N55PPX2117	11.0	30	75	12	2
N55PPX2118	12.0	30	75	12	2
N55PPX2119	14.0	40	100	14	2
N55PPX2120	15.0	42	100	16	2
N55PPX2121	16.0	45	100	16	2
N55PPX2122	17.0	45	100	18	2
N55PPX2123	18.0	45	100	18	2
N55PPX2124	20.0	48	100	20	2

Long shank tungsten steel 2flutes flat milling cutter

钨钢二刃长柄平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30 ~ HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PPX2125	1.0	4	75	4	2
N55PPX2126	1.0	4	75	6	2
N55PPX2127	1.0	4	100	4	2
N55PPX2128	1.0	4	100	6	2
N55PPX2129	1.5	4.5	50	6	2
N55PPX2130	1.5	6	75	4	2
N55PPX2131	1.5	6	75	6	2
N55PPX2132	1.5	6	100	4	2
N55PPX2133	1.5	6	100	6	2
N55PPX2134	2.0	6	50	6	2
N55PPX2135	2.0	8	75	4	2
N55PPX2136	2.0	8	100	6	2
N55PPX2137	2.0	8	100	4	2
N55PPX2138	2.0	8	100	6	2
N55PPX2139	2.5	7.5	50	6	2
N55PPX2140	2.5	10	75	4	2
N55PPX2141	2.5	10	75	6	2
N55PPX2142	2.5	10	100	4	2
N55PPX2143	2.5	10	100	6	2
N55PPX2144	3.0	12	75	3	2
N55PPX2145	3.0	12	100	3	2
N55PPX2146	3.0	9	50	6	2
N55PPX2147	3.0	12	75	4	2
N55PPX2148	3.0	12	75	6	2
N55PPX2149	3.0	12	100	4	2
N55PPX2150	3.0	12	100	6	2
N55PPX2151	3.5	10	50	6	2
N55PPX2152	4.0	12	50	6	2
N55PPX2153	4.0	16	75	4	2
N55PPX2154	4.0	16	75	6	2
N55PPX2155	4.0	16	100	4	2
N55PPX2156	4.0	16	100	6	2
N55PPX2157	5.0	18	75	5	2
N55PPX2158	5.0	18	100	5	2
N55PPX2159	5.0	18	75	6	2
N55PPX2160	5.0	18	100	6	2

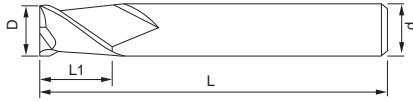
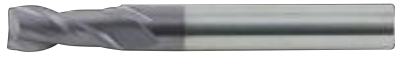
Long shank tungsten steel 2flutes flat milling cutter

钨钢二刃长柄平铣刀

Code No.	D	L1	L	d	T
N55PPX2161	6.0	22	75	6	2
N55PPX2162	6.0	22	100	6	2
N55PPX2163	6.0	25	150	6	2
N55PPX2164	8.0	25	75	8	2
N55PPX2165	8.0	30	100	8	2
N55PPX2166	8.0	35	150	8	2
N55PPX2167	8.0	40	200	8	2
N55PPX2168	10.0	30	100	10	2
N55PPX2169	10.0	40	150	10	2
N55PPX2170	10.0	45	200	10	2
N55PPX2171	12.0	35	100	12	2
N55PPX2172	12.0	45	150	12	2
N55PPX2173	12.0	45	200	12	2
N55PPX2174	14.0	45	150	14	2
N55PPX2175	14.0	50	200	14	2
N55PPX2176	16.0	50	150	16	2
N55PPX2177	16.0	55	200	16	2
N55PPX2178	18.0	55	150	18	2
N55PPX2179	20.0	55	150	20	2
N55PPX2180	20.0	55	200	20	2

Tungsten steel 2flutes long flat milling cutter

钨钢二刃长刃平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Code No.	D	L1	L	d	T
N55PPX2181	1.0	6	50	4	2
N55PPX2182	1.0	6	50	6	2
N55PPX2183	1.0	8	50	4	2
N55PPX2184	1.0	8	50	6	2
N55PPX2185	1.0	10	50	4	2
N55PPX2186	1.0	10	50	6	2
N55PPX2187	1.5	7	50	4	2
N55PPX2188	1.5	7	50	6	2
N55PPX2189	1.5	9	50	4	2
N55PPX2190	1.5	9	50	6	2
N55PPX2191	1.5	11	50	4	2
N55PPX2192	1.5	11	50	6	2
N55PPX2193	2.0	10	50	4	2
N55PPX2194	2.0	10	50	6	2
N55PPX2195	2.0	13	50	4	2
N55PPX2196	2.0	13	50	6	2
N55PPX2197	2.0	16	50	4	2
N55PPX2198	2.0	16	50	6	2
N55PPX2199	2.5	10	50	4	2
N55PPX2200	2.5	10	50	6	2
N55PPX2201	2.5	14	50	4	2
N55PPX2202	2.5	14	50	6	2
N55PPX2203	2.5	18	50	4	2
N55PPX2204	2.5	18	50	6	2
N55PPX2205	3.0	12	50	4	2
N55PPX2206	3.0	12	50	6	2
N55PPX2207	3.0	16	50	4	2
N55PPX2208	3.0	16	50	6	2
N55PPX2209	3.0	20	50	4	2
N55PPX2210	3.0	20	50	6	2
N55PPX2211	4.0	20	75	4	2
N55PPX2212	4.0	25	100	4	2
N55PPX2213	5.0	23	75	6	2
N55PPX2214	5.0	25	100	6	2
N55PPX2215	6.0	35	100	6	2
N55PPX2216	6.0	40	100	6	2

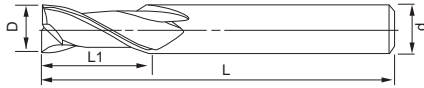
Tungsten steel 2flutes long flat milling cutter

钨钢二刃长刃平铣刀

Code No.	D	L1	L	d	T
N55PPX2217	6.0	40	150	6	2
N55PPX2218	8.0	35	100	8	2
N55PPX2219	8.0	40	100	8	2
N55PPX2220	8.0	40	150	8	2
N55PPX2221	10.0	45	100	10	2
N55PPX2222	10.0	50	100	10	2
N55PPX2223	10.0	50	150	10	2
N55PPX2224	12.0	45	100	12	2
N55PPX2225	12.0	50	100	12	2
N55PPX2226	12.0	50	150	12	2
N55PPX2227	14.0	65	150	14	2
N55PPX2228	14.0	75	150	14	2
N55PPX2229	16.0	65	150	16	2
N55PPX2230	16.0	75	150	16	2
N55PPX2231	20.0	65	150	20	2
N55PPX2232	20.0	75	150	20	2

Tungsten steel 3flutes flat milling cutter

钨钢三刃标准平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

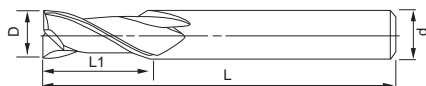
Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Code No.	D	L1	L	d	T
N55PPX3101	1.0	3	50	4	3
N55PPX3102	1.5	4.5	50	4	3
N55PPX3103	2.0	6	50	4	3
N55PPX3104	2.5	7.5	50	4	3
N55PPX3105	3.0	9	50	4	3
N55PPX3106	3.0	9	50	3	3
N55PPX3107	3.5	10	50	4	3
N55PPX3108	4.0	12	50	4	3
N55PPX3109	4.5	13	50	6	3
N55PPX3110	5.0	13	50	6	3
N55PPX3111	5.0	15	50	5	3
N55PPX3112	5.5	15	50	6	3
N55PPX3113	6.0	15	50	6	3
N55PPX3114	7.0	20	60	8	3
N55PPX3115	8.0	20	60	8	3
N55PPX3116	9.0	25	75	10	3
N55PPX3117	10.0	25	75	10	3
N55PPX3118	11.0	30	75	12	3
N55PPX3119	12.0	30	75	12	3
N55PPX3120	14.0	40	100	14	3
N55PPX3121	15.0	42	100	16	3
N55PPX3122	16.0	45	100	16	3
N55PPX3123	17.0	45	100	18	3
N55PPX3124	18.0	45	100	18	3
N55PPX3125	20.0	48	100	20	3

Long shank tungsten steel 3flutes flat milling cutter

钨钢三刃长柄平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢；

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

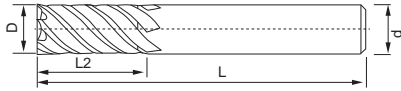
Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PPX3126	4.0	12	50	6	3
N55PPX3127	4.0	16	75	4	3
N55PPX3128	4.0	16	75	6	3
N55PPX3129	4.0	16	100	4	3
N55PPX3130	4.0	16	100	6	3
N55PPX3131	5.0	18	75	5	3
N55PPX3132	5.0	18	100	5	3
N55PPX3133	5.0	18	75	6	3
N55PPX3134	5.0	18	100	6	3
N55PPX3135	6.0	22	75	6	3
N55PPX3136	6.0	22	100	6	3
N55PPX3137	6.0	25	150	6	3
N55PPX3138	8.0	25	75	8	3
N55PPX3139	8.0	30	100	8	3
N55PPX3140	8.0	35	150	8	3
N55PPX3141	8.0	40	200	8	3
N55PPX3142	10.0	30	100	10	3
N55PPX3143	10.0	40	150	10	3
N55PPX3144	10.0	45	200	10	3
N55PPX3145	12.0	35	100	12	3
N55PPX3146	12.0	45	150	12	3
N55PPX3147	12.0	45	200	12	3
N55PPX3148	14.0	45	150	14	3
N55PPX3149	14.0	50	200	14	3
N55PPX3150	16.0	50	150	16	3
N55PPX3151	16.0	55	200	16	3
N55PPX3152	18.0	55	150	18	3
N55PPX3153	20.0	55	150	20	3



Tungsten steel 6flutes flat milling cutter

钨钢六刃标准平铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

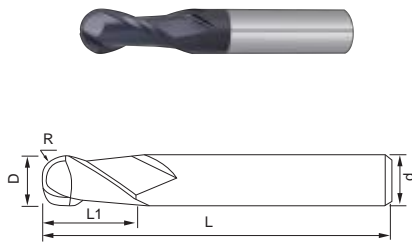
High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PPX6101	6.0	18	50	6	6
N55PPX6102	6.0	25	75	6	6
N55PPX6103	8.0	25	60	8	6
N55PPX6104	8.0	35	75	8	6
N55PPX6105	9.0	25	75	10	6
N55PPX6106	10.0	30	75	10	6
N55PPX6107	10.0	40	100	10	6
N55PPX6108	11.0	30	75	12	6
N55PPX6109	12.0	30	75	12	6
N55PPX6110	12.0	45	100	12	6
N55PPX6111	14.0	50	100	14	6
N55PPX6112	14.0	65	150	14	6
N55PPX6113	16.0	50	100	16	6
N55PPX6114	16.0	65	150	16	6
N55PPX6115	20.0	50	100	20	6
N55PPX6116	20.0	75	150	20	6

Tungsten steel 2flutes ballnose milling cutter

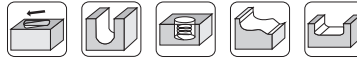
钨钢二刃标准球铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力;

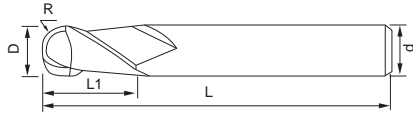
Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N55QPX2101	1.0	0.50R	2	50	4	2
N55QPX2102	1.5	0.75R	3	50	4	2
N55QPX2103	2.0	1.00R	4	50	4	2
N55QPX2104	2.5	1.25R	5	50	4	2
N55QPX2105	3.0	1.50R	6	50	4	2
N55QPX2106	3.5	1.75R	7	50	4	2
N55QPX2107	4.0	2.00R	8	50	4	2
N55QPX2108	5.0	2.50R	10	50	6	2
N55QPX2109	6.0	3.00R	12	50	6	2
N55QPX2110	7.0	3.50R	14	60	8	2
N55QPX2111	8.0	4.00R	16	60	8	2
N55QPX2112	9.0	4.50R	18	75	10	2
N55QPX2113	10.0	5.00R	20	75	10	2
N55QPX2114	11.0	5.50R	22	75	12	2
N55QPX2115	12.0	6.00R	24	75	12	2
N55QPX2116	13.0	6.50R	26	100	14	2
N55QPX2117	14.0	7.00R	28	100	14	2
N55QPX2118	15.0	7.50R	30	100	16	2
N55QPX2119	16.0	8.00R	32	100	16	2
N55QPX2120	17.0	8.50R	34	100	18	2
N55QPX2121	18.0	9.00R	35	100	18	2
N55QPX2122	20.0	10.00R	36	100	20	2



Tungsten steel 2flutes long ballnose milling cutter

钨钢二刃加长球铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Code No.	D	R	L1	L	d	T
N55QPX2123	1.0	0.50R	2	50	6	2
N55QPX2124	1.0	0.50R	2	75	4	2
N55QPX2125	1.0	0.50R	2	75	6	2
N55QPX2126	1.0	0.50R	2	100	4	2
N55QPX2127	1.0	0.50R	2	100	6	2
N55QPX2128	1.5	0.75R	3	50	4	2
N55QPX2129	1.5	0.75R	3	75	4	2
N55QPX2130	1.5	0.75R	3	75	6	2
N55QPX2131	1.5	0.75R	3	100	4	2
N55QPX2132	1.5	0.75R	3	100	6	2
N55QPX2133	2.0	1.00R	4	50	6	2
N55QPX2134	2.0	1.00R	4	75	4	2
N55QPX2135	2.0	1.00R	4	75	6	2
N55QPX2136	2.0	1.00R	4	100	4	2
N55QPX2137	2.0	1.00R	4	100	6	2
N55QPX2138	2.5	1.25R	5	50	6	2
N55QPX2139	2.5	1.25R	5	75	4	2
N55QPX2140	2.5	1.25R	5	75	6	2
N55QPX2141	2.5	1.25R	5	100	4	2
N55QPX2142	2.5	1.25R	5	100	6	2
N55QPX2143	3.0	1.50R	6	50	6	2
N55QPX2144	3.0	1.50R	6	75	4	2
N55QPX2145	3.0	1.50R	6	75	6	2
N55QPX2146	3.0	1.50R	6	100	4	2
N55QPX2147	3.0	1.50R	6	100	6	2
N55QPX2148	3.5	1.75R	7	50	6	2
N55QPX2149	3.5	1.75R	7	75	4	2
N55QPX2150	3.5	1.75R	7	75	6	2
N55QPX2151	3.5	1.75R	7	100	4	2
N55QPX2152	3.5	1.75R	7	100	6	2
N55QPX2153	4.0	2.00R	8	50	4	2
N55QPX2154	4.0	2.00R	10	75	6	2
N55QPX2155	4.0	2.00R	10	75	6	2
N55QPX2156	4.0	2.00R	10	100	4	2
N55QPX2157	4.0	2.00R	10	100	6	2
N55QPX2158	5.0	2.50R	12	75	6	2

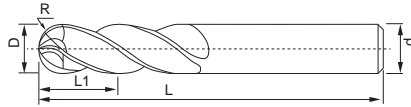
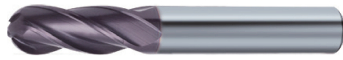
Tungsten steel 2flutes long ballnose milling cutter

钨钢二刃加长球铣刀

Code No.	D	R	L1	L	d	T
N55QPX2159	5.0	2.50R	12	100	6	2
N55QPX2160	6.0	3.00R	14	75	6	2
N55QPX2161	6.0	3.00R	16	100	6	2
N55QPX2162	6.0	3.00R	20	150	6	2
N55QPX2163	8.0	4.00R	18	75	8	2
N55QPX2164	8.0	4.00R	20	100	8	2
N55QPX2165	8.0	4.00R	22	150	8	2
N55QPX2166	8.0	4.00R	25	200	8	2
N55QPX2167	10.0	5.00R	24	100	10	2
N55QPX2168	10.0	5.00R	26	150	10	2
N55QPX2169	10.0	5.00R	30	200	10	2
N55QPX2170	12.0	6.00R	26	100	12	2
N55QPX2171	12.0	6.00R	30	150	12	2
N55QPX2172	12.0	6.00R	35	200	12	2
N55QPX2173	14.0	7.00R	34	150	14	2
N55QPX2174	14.0	7.00R	40	200	14	2
N55QPX2175	16.0	8.00R	36	150	16	2
N55QPX2176	16.0	8.00R	40	200	16	2
N55QPX2177	20.0	10.00R	40	150	20	2
N55QPX2178	20.0	10.00R	50	200	20	2

Tungsten steel 4flutes ballnose milling cutter

钨钢四刃标准球铣刀

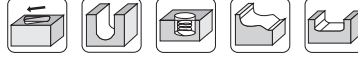


Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

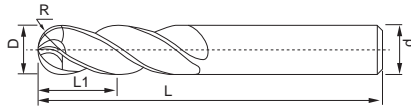
Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Code No.	D	R	L1	L	d	T
N55QPX4101	1.0	0.50R	2	50	4	4
N55QPX4102	1.5	0.75R	3	50	4	4
N55QPX4103	2.0	1.00R	4	50	4	4
N55QPX4104	2.5	1.25R	5	50	4	4
N55QPX4105	3.0	1.50R	6	50	4	4
N55QPX4106	3.5	1.75R	7	50	4	4
N55QPX4107	4.0	2.00R	8	50	4	4
N55QPX4108	5.0	2.50R	10	50	6	4
N55QPX4109	6.0	3.00R	12	50	6	4
N55QPX4110	7.0	3.50R	14	60	8	4
N55QPX4111	8.0	4.00R	16	60	8	4
N55QPX4112	9.0	4.50R	18	75	10	4
N55QPX4113	10.0	5.00R	20	75	10	4
N55QPX4114	11.0	5.50R	22	75	12	4
N55QPX4115	12.0	6.00R	24	75	12	4
N55QPX4116	13.0	6.50R	26	100	14	4
N55QPX4117	14.0	7.00R	28	100	14	4
N55QPX4118	15.0	7.50R	30	100	16	4
N55QPX4119	16.0	8.00R	32	100	16	4
N55QPX4120	17.0	8.50R	34	100	18	4
N55QPX4121	18.0	9.00R	35	100	18	4
N55QPX4122	20.0	10.00R	36	100	20	4

Tungsten steel 4flutes long ballnose milling cutter

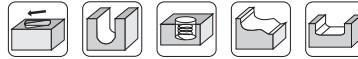
钨钢四刃加长球铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC30 to ~ HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30 ~ HRC45钢、合金钢、铸铁、不锈钢；

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切割能力；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N55QPX4123	1.0	0.50R	2	50	6	4
N55QPX4124	1.0	0.50R	2	75	4	4
N55QPX4125	1.0	0.50R	2	75	6	4
N55QPX4126	1.0	0.50R	2	100	4	4
N55QPX4127	1.0	0.50R	2	100	6	4
N55QPX4128	1.5	0.75R	3	50	4	4
N55QPX4129	1.5	0.75R	3	75	4	4
N55QPX4130	1.5	0.75R	3	75	6	4
N55QPX4131	1.5	0.75R	3	100	4	4
N55QPX4132	1.5	0.75R	3	100	6	4
N55QPX4133	2.0	1.00R	4	50	6	4
N55QPX4134	2.0	1.00R	4	75	4	4
N55QPX4135	2.0	1.00R	4	75	6	4
N55QPX4136	2.0	1.00R	4	100	4	4
N55QPX4137	2.0	1.00R	4	100	6	4
N55QPX4138	2.5	1.25R	5	50	6	4
N55QPX4139	2.5	1.25R	5	75	4	4
N55QPX4140	2.5	1.25R	5	75	6	4
N55QPX4141	2.5	1.25R	5	100	4	4
N55QPX4142	2.5	1.25R	5	100	6	4
N55QPX4143	3.0	1.50R	6	50	6	4
N55QPX4144	3.0	1.50R	6	75	4	4
N55QPX4145	3.0	1.50R	6	75	6	4
N55QPX4146	3.0	1.50R	6	100	4	4
N55QPX4147	3.0	1.50R	6	100	6	4
N55QPX4148	3.5	1.75R	7	50	6	4
N55QPX4149	3.5	1.75R	7	75	4	4
N55QPX4150	3.5	1.75R	7	75	6	4
N55QPX4151	3.5	1.75R	7	100	4	4
N55QPX4152	3.5	1.75R	7	100	6	4
N55QPX4153	4.0	2.00R	8	50	4	4
N55QPX4154	4.0	2.00R	10	75	6	4
N55QPX4155	4.0	2.00R	10	75	6	4
N55QPX4156	4.0	2.00R	10	100	4	4
N55QPX4157	4.0	2.00R	10	100	6	4
N55QPX4158	5.0	2.50R	12	75	6	4



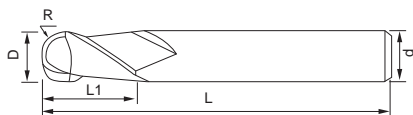
Tungsten steel 4flutes long ballnose milling cutter

钨钢四刃加长球铣刀

Code No.	D	R	L1	L	d	T
N55QPX4159	5.0	2.50R	12	100	6	4
N55QPX4160	6.0	3.00R	14	75	6	4
N55QPX4161	6.0	3.00R	16	100	6	4
N55QPX4162	6.0	3.00R	20	150	6	4
N55QPX4163	8.0	4.00R	18	75	8	4
N55QPX4164	8.0	4.00R	20	100	8	4
N55QPX4165	8.0	4.00R	22	150	8	4
N55QPX4166	8.0	4.00R	25	200	8	4
N55QPX4167	10.0	5.00R	24	100	10	4
N55QPX4168	10.0	5.00R	26	150	10	4
N55QPX4169	10.0	5.00R	30	200	10	4
N55QPX4170	12.0	6.00R	26	100	12	4
N55QPX4171	12.0	6.00R	30	150	12	4
N55QPX4172	12.0	6.00R	35	200	12	4
N55QPX4173	14.0	7.00R	34	150	14	4
N55QPX4174	14.0	7.00R	40	200	14	4
N55QPX4175	16.0	8.00R	36	150	16	4
N55QPX4176	16.0	8.00R	40	200	16	4
N55QPX4177	20.0	10.00R	40	150	20	4
N55QPX4178	20.0	10.00R	50	200	20	4

Tungsten steel 2flutes ballnose aluminium milling cutter

钨钢二刃标准铝用球铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

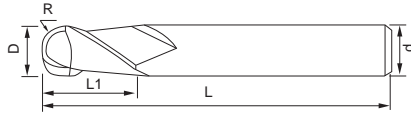
Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Code No.	D	R	L1	L	d	T
N55QLX2101	1.0	0.50R	2	50	4	2
N55QLX2102	1.5	0.75R	3	50	4	2
N55QLX2103	2.0	1.00R	4	50	4	2
N55QLX2104	2.5	1.25R	5	50	4	2
N55QLX2105	3.0	1.50R	6	50	4	2
N55QLX2106	3.5	1.75R	7	50	4	2
N55QLX2107	4.0	2.00R	8	50	4	2
N55QLX2108	5.0	2.50R	10	50	6	2
N55QLX2109	6.0	3.00R	12	50	6	2
N55QLX2110	7.0	3.50R	14	60	8	2
N55QLX2111	8.0	4.00R	16	60	8	2
N55QLX2112	9.0	4.50R	18	75	10	2
N55QLX2113	10.0	5.00R	20	75	10	2
N55QLX2114	11.0	5.50R	22	75	12	2
N55QLX2115	12.0	6.00R	24	75	12	2
N55QLX2116	13.0	6.50R	26	100	14	2
N55QLX2117	14.0	7.00R	28	100	14	2
N55QLX2118	15.0	7.50R	30	100	16	2
N55QLX2119	16.0	8.00R	32	100	16	2
N55QLX2120	17.0	8.50R	34	100	18	2
N55QLX2121	18.0	9.00R	35	100	18	2
N55QLX2122	20.0	10.00R	36	100	20	2

Tungsten steel 2flutes long ballnose aluminium milling cutter

钨钢二刃加长铝用球铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢, 高亮度研磨, 具有良好的排削性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝, 铝合金, 其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理, 减少加工震动;

Code No.	D	R	L1	L	d	T
N55QLX2123	1.0	0.50R	2	50	6	2
N55QLX2124	1.0	0.50R	2	75	4	2
N55QLX2125	1.0	0.50R	2	75	6	2
N55QLX2126	1.0	0.50R	2	100	4	2
N55QLX2127	1.0	0.50R	2	100	6	2
N55QLX2128	1.5	0.75R	3	50	6	2
N55QLX2129	1.5	0.75R	3	75	4	2
N55QLX2130	1.5	0.75R	3	75	6	2
N55QLX2131	1.5	0.75R	3	100	4	2
N55QLX2132	1.5	0.75R	3	100	6	2
N55QLX2133	2.0	1.00R	4	50	6	2
N55QLX2134	2.0	1.00R	4	75	4	2
N55QLX2135	2.0	1.00R	4	75	6	2
N55QLX2136	2.0	1.00R	4	100	4	2
N55QLX2137	2.0	1.25R	5	100	6	2
N55QLX2138	2.5	1.25R	5	50	6	2
N55QLX2139	2.5	1.25R	5	75	4	2
N55QLX2140	2.5	1.25R	5	75	6	2
N55QLX2141	2.5	1.25R	5	100	4	2
N55QLX2142	2.5	1.25R	5	100	6	2
N55QLX2143	3.0	1.5R	6	50	6	2
N55QLX2144	3.0	1.5R	6	75	4	2
N55QLX2145	3.0	1.5R	6	75	6	2
N55QLX2146	3.0	1.5R	6	100	4	2
N55QLX2147	3.0	1.75R	7	100	6	2
N55QLX2148	3.5	1.75R	7	50	6	2
N55QLX2149	3.5	1.75R	7	75	4	2
N55QLX2150	3.5	1.75R	7	75	6	2
N55QLX2151	3.5	1.75R	7	100	4	2
N55QLX2152	3.5	1.75R	7	100	6	2
N55QLX2153	4.0	2.00R	8	50	6	2
N55QLX2154	4.0	2.00R	10	75	4	2
N55QLX2155	4.0	2.00R	10	75	6	2
N55QLX2156	4.0	2.00R	10	100	4	2
N55QLX2157	4.0	2.00R	10	100	6	2
N55QLX2158	5.0	2.50R	12	75	6	2

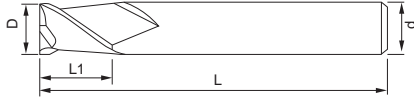
Tungsten steel 2flutes long ballnose aluminium milling cutter

钨钢二刃加长铝用球铣刀

Code No.	D	R	L1	L	d	T
N55QLX2159	5.0	2.50R	12	100	6	2
N55QLX2160	6.0	3.00R	14	75	6	2
N55QLX2161	6.0	3.00R	16	100	6	2
N55QLX2162	6.0	3.00R	20	150	6	2
N55QLX2163	8.0	4.00R	18	75	8	2
N55QLX2164	8.0	4.00R	20	100	8	2
N55QLX2165	8.0	4.00R	22	150	8	2
N55QLX2166	8.0	4.00R	25	200	8	2
N55QLX2167	10.0	5.00R	24	100	10	2
N55QLX2168	10.0	5.00R	26	150	10	2
N55QLX2169	10.0	5.00R	30	200	10	2
N55QLX2170	12.0	6.00R	26	100	12	2
N55QLX2171	12.0	6.00R	30	150	12	2
N55QLX2172	12.0	6.00R	35	200	12	2
N55QLX2173	14.0	7.00R	34	150	14	2
N55QLX2174	14.0	7.00R	40	200	14	2
N55QLX2175	16.0	8.00R	36	150	16	2
N55QLX2176	16.0	8.00R	40	200	16	2
N55QLX2177	20.0	10.00R	40	150	20	2
N55QLX2178	20.0	10.00R	50	200	20	2

Tungsten steel 2flutes aluminium flat milling cutter

钨钢二刃标准铝用平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

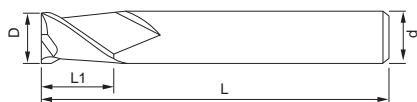
Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Code No.	D	L1	L	d	T
N55PLX2101	1.0	3	50	4	2
N55PLX2102	1.5	4.5	50	4	2
N55PLX2103	2.0	6	50	4	2
N55PLX2104	2.5	7.5	50	4	2
N55PLX2105	3.0	9	50	4	2
N55PLX2106	3.5	10	50	4	2
N55PLX2107	4.0	12	50	4	2
N55PLX2108	4.5	13.5	50	6	2
N55PLX2109	5.0	13	50	6	2
N55PLX2110	5.5	15	50	6	2
N55PLX2111	6.0	18	50	6	2
N55PLX2112	7.0	20	60	8	2
N55PLX2113	8.0	25	60	8	2
N55PLX2114	9.0	25	75	10	2
N55PLX2115	10.0	30	75	10	2
N55PLX2116	11.0	30	75	12	2
N55PLX2117	12.0	30	75	12	2
N55PLX2118	14.0	40	100	14	2
N55PLX2119	15.0	42	100	16	2
N55PLX2120	16.0	45	100	16	2
N55PLX2121	17.0	45	100	18	2
N55PLX2122	18.0	45	100	18	2
N55PLX2123	20.0	48	100	20	2
N55PLX2124	3.0	9	50	3	2
N55PLX2125	5.0	15	50	5	2

Tungsten steel 2flutes long aluminium flat milling cutter

钨钢二刃加长铝用平铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;

采用优质钨钢，高亮度研磨，具有良好的排屑性能；

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;

适合加工铝，铝合金，其它有色金属；

Cutter tip is treated by micro chamfering to reduce machining vibration;

刀尖经过微倒角处理，减少加工震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PLX2126	1.0	4	75	4	2
N55PLX2127	1.0	4	75	6	2
N55PLX2128	1.0	4	100	4	2
N55PLX2129	1.0	4	100	6	2
N55PLX2130	1.5	4.5	50	6	2
N55PLX2131	1.5	6	75	4	2
N55PLX2132	1.5	6	75	6	2
N55PLX2133	1.5	6	100	4	2
N55PLX2134	1.5	6	100	6	2
N55PLX2135	2.0	6	50	6	2
N55PLX2136	2.0	8	75	4	2
N55PLX2137	2.0	8	100	6	2
N55PLX2138	2.0	8	100	4	2
N55PLX2139	2.0	8	100	6	2
N55PLX2140	2.5	7.5	50	6	2
N55PLX2141	2.5	10	75	4	2
N55PLX2142	2.5	10	75	6	2
N55PLX2143	2.5	10	100	4	2
N55PLX2144	2.5	10	100	6	2
N55PLX2145	3.0	12	75	3	2
N55PLX2146	3.0	12	100	3	2
N55PLX2147	3.0	9	50	6	2
N55PLX2148	3.0	12	75	4	2
N55PLX2149	3.0	12	75	6	2
N55PLX2150	3.0	12	100	4	2
N55PLX2151	3.0	12	100	6	2
N55PLX2152	3.5	10	50	6	2
N55PLX2153	4.0	12	50	6	2
N55PLX2154	4.0	16	75	4	2
N55PLX2155	4.0	16	75	6	2
N55PLX2156	4.0	16	100	4	2
N55PLX2157	4.0	16	100	6	2
N55PLX2158	5.0	18	75	5	2
N55PLX2159	5.0	18	100	5	2
N55PLX2160	5.0	18	75	6	2
N55PLX2161	5.0	18	100	6	2

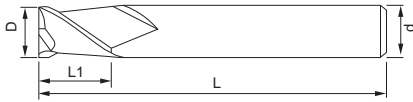
Tungsten steel 2flutes long aluminium flat milling cutter

钨钢二刃加长铝用平铣刀

Code No.	D	L1	L	d	T
N55PLX2162	6.0	22	75	6	2
N55PLX2163	6.0	22	100	6	2
N55PLX2164	6.0	25	150	6	2
N55PLX2165	8.0	30	75	8	2
N55PLX2166	8.0	40	100	8	2
N55PLX2167	8.0	50	150	8	2
N55PLX2168	8.0	50	200	8	2
N55PLX2169	10.0	40	100	10	2
N55PLX2170	10.0	50	150	10	2
N55PLX2171	10.0	50	200	10	2
N55PLX2172	12.0	40	100	12	2
N55PLX2173	12.0	50	150	12	2
N55PLX2174	12.0	50	200	12	2
N55PLX2175	14.0	55	150	14	2
N55PLX2176	14.0	60	200	14	2
N55PLX2177	16.0	60	150	16	2
N55PLX2178	16.0	60	200	16	2
N55PLX2179	18.0	60	150	18	2
N55PLX2180	20.0	60	150	20	2
N55PLX2181	20.0	60	200	20	2

Long shank tungsten steel 2flutes aluminium flat milling cutter

钨钢二刃长刃铝用平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Code No.	D	L1	L	d	T
N55PLX2182	1.0	6	50	4	2
N55PLX2183	1.0	6	50	6	2
N55PLX2184	1.0	8	50	4	2
N55PLX2185	1.0	8	50	6	2
N55PLX2186	1.0	10	50	4	2
N55PLX2187	1.0	10	50	6	2
N55PLX2188	1.5	7	50	5	2
N55PLX2189	1.5	7	50	6	2
N55PLX2190	1.5	9	50	4	2
N55PLX2191	1.5	9	50	6	2
N55PLX2192	1.5	11	50	4	2
N55PLX2193	1.5	11	50	6	2
N55PLX2194	2.0	10	50	4	2
N55PLX2195	2.0	10	50	6	2
N55PLX2196	2.0	13	50	4	2
N55PLX2197	2.0	13	50	6	2
N55PLX2198	2.0	16	50	4	2
N55PLX2199	2.0	16	50	6	2
N55PLX2200	2.5	10	50	4	2
N55PLX2201	2.5	10	50	6	2
N55PLX2202	2.5	14	50	4	2
N55PLX2203	2.5	14	50	6	2
N55PLX2204	2.5	18	50	4	2
N55PLX2205	2.5	18	50	6	2
N55PLX2206	3.0	12	50	4	2
N55PLX2207	3.0	12	50	6	2
N55PLX2208	3.0	16	50	4	2
N55PLX2209	3.0	16	50	6	2
N55PLX2210	3.0	20	50	4	2
N55PLX2211	3.0	20	50	6	2
N55PLX2212	4.0	20	75	4	2
N55PLX2213	4.0	25	100	4	2
N55PLX2214	5.0	23	75	6	2
N55PLX2215	5.0	25	100	6	2
N55PLX2216	6.0	35	100	6	2
N55PLX2217	6.0	40	100	6	2

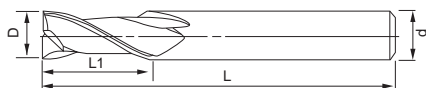
Long shank tungsten steel 2flutes aluminium flat milling cutter

钨钢二刃长刃铝用平铣刀

Code No.	D	L1	L	d	T
N55PLX2218	6.0	50	150	6	2
N55PLX2219	8.0	60	150	8	2
N55PLX2220	10.0	65	150	10	2
N55PLX2221	12.0	75	150	12	2
N55PLX2222	14.0	75	150	14	2
N55PLX2223	16.0	75	150	16	2
N55PLX2224	20.0	75	150	20	2

Tungsten steel 3flutes aluminium flat milling cutter

钨钢三刃标准铝用平铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

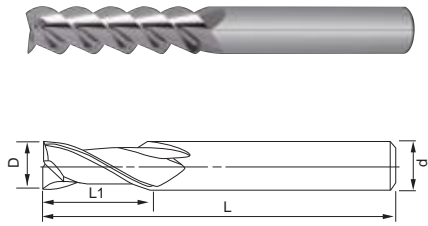
Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PLX3101	1.0	3	50	4	3
N55PLX3102	1.5	4.5	50	4	3
N55PLX3103	2.0	6	50	4	3
N55PLX3104	2.5	7.5	50	4	3
N55PLX3105	3.0	9	50	4	3
N55PLX3106	3.0	9	50	3	3
N55PLX3107	4.0	12	50	4	3
N55PLX3108	4.5	13.5	50	6	3
N55PLX3109	5.0	13	50	6	3
N55PLX3110	5.0	15	50	5	3
N55PLX3111	5.5	15	50	6	3
N55PLX3112	6.0	18	50	6	3
N55PLX3113	7.0	20	60	8	3
N55PLX3114	8.0	25	60	8	3
N55PLX3115	9.0	25	75	10	3
N55PLX3116	10.0	30	75	10	3
N55PLX3117	11.0	30	75	12	3
N55PLX3118	12.0	30	75	12	3
N55PLX3119	14.0	40	100	14	3
N55PLX3120	15.0	42	100	16	3
N55PLX3121	16.0	45	100	16	3
N55PLX3122	17.0	45	100	18	3
N55PLX3123	18.0	45	100	18	3
N55PLX3124	20.0	48	100	20	3

Tungsten steel 3flutes long aluminium flat milling cutter

钨钢三刃加长铝用平铣刀



Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢, 高亮度研磨, 具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝, 铝合金, 其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理, 减少加工震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PLX3125	1.0	4	75	4	3
N55PLX3126	1.0	4	75	6	3
N55PLX3127	1.0	4	100	4	3
N55PLX3128	1.0	4	100	6	3
N55PLX3129	1.5	4.5	50	6	3
N55PLX3130	1.5	6	75	4	3
N55PLX3131	1.5	6	75	6	3
N55PLX3132	1.5	6	100	4	3
N55PLX3133	1.5	6	100	6	3
N55PLX3134	2.0	6	50	6	3
N55PLX3135	2.0	8	75	4	3
N55PLX3136	2.0	8	100	6	3
N55PLX3137	2.0	8	100	4	3
N55PLX3138	2.0	8	100	6	3
N55PLX3139	2.5	7.5	50	6	3
N55PLX3140	2.5	10	75	4	3
N55PLX3141	2.5	10	75	6	3
N55PLX3142	2.5	10	100	4	3
N55PLX3143	2.5	10	100	6	3
N55PLX3144	3.0	12	75	3	3
N55PLX3145	3.0	12	100	3	3
N55PLX3146	3.0	12	50	6	3
N55PLX3147	3.0	12	75	4	3
N55PLX3148	3.0	12	75	6	3
N55PLX3149	3.0	12	100	4	3
N55PLX3150	3.0	12	100	6	3
N55PLX3151	3.5	10	50	6	3
N55PLX3152	4.0	12	50	6	3
N55PLX3153	4.0	16	75	4	3
N55PLX3154	4.0	16	75	6	3
N55PLX3155	4.0	16	100	4	3
N55PLX3156	4.0	16	100	6	3
N55PLX3157	5.0	18	75	5	3
N55PLX3158	5.0	18	100	5	3
N55PLX3159	5.0	18	75	6	3
N55PLX3160	5.0	18	100	6	3

Tungsten steel 3flutes long aluminium flat milling cutter

钨钢三刃加长铝用平铣刀

Code No.	D	L1	L	d	T
N55PLX3161	6.0	22	75	6	3
N55PLX3162	6.0	22	100	6	3
N55PLX3163	6.0	25	150	6	3
N55PLX3164	8.0	30	75	8	3
N55PLX3165	8.0	40	100	8	3
N55PLX3166	8.0	50	150	8	3
N55PLX3167	8.0	50	200	8	3
N55PLX3168	10.0	40	100	10	3
N55PLX3169	10.0	50	150	10	3
N55PLX3170	10.0	50	200	10	3
N55PLX3171	12.0	40	100	12	3
N55PLX3172	12.0	50	150	12	3
N55PLX3173	12.0	50	200	12	3
N55PLX3174	14.0	55	150	14	3
N55PLX3175	14.0	60	200	14	2
N55PLX3176	16.0	60	150	16	3
N55PLX3177	16.0	60	200	16	3
N55PLX3178	18.0	60	150	18	3
N55PLX3179	20.0	60	150	20	3
N55PLX3180	20.0	60	200	20	3

Long shank tungsten steel 3flutes aluminium flat milling cutter

钨钢三刃长刃铝用平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢, 高亮度研磨, 具有良好的排削性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝, 铝合金, 其它有色金属;

Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理, 减少加工震动;

Code No.	D	L1	L	d	T
N55PLX3181	1.0	6	50	4	3
N55PLX3182	1.0	6	50	6	3
N55PLX3183	1.0	8	50	4	3
N55PLX3184	1.0	8	50	6	3
N55PLX3185	1.0	10	50	4	3
N55PLX3186	1.0	10	50	6	3
N55PLX3187	1.5	7	50	5	3
N55PLX3188	1.5	7	50	6	3
N55PLX3189	1.5	9	50	4	3
N55PLX3190	1.5	9	50	6	3
N55PLX3191	1.5	11	50	4	3
N55PLX3192	1.5	11	50	6	3
N55PLX3193	2.0	10	50	4	3
N55PLX3194	2.0	10	50	6	3
N55PLX3195	2.0	13	50	4	3
N55PLX3196	2.0	13	50	6	3
N55PLX3197	2.0	16	50	4	3
N55PLX3198	2.0	16	50	6	3
N55PLX3199	2.5	10	50	4	3
N55PLX3200	2.5	10	50	6	3
N55PLX3201	2.5	14	50	4	3
N55PLX3202	2.5	14	50	6	3
N55PLX3203	2.5	18	50	4	3
N55PLX3204	2.5	18	50	6	3
N55PLX3205	3.0	12	50	4	3
N55PLX3206	3.0	12	50	6	3
N55PLX3207	3.0	16	50	4	3
N55PLX3208	3.0	16	50	6	3
N55PLX3209	3.0	20	50	4	3
N55PLX3210	3.0	20	50	6	3
N55PLX3211	4.0	20	75	4	3
N55PLX3212	4.0	25	100	4	3
N55PLX3213	5.0	23	75	6	3
N55PLX3214	5.0	25	100	6	3
N55PLX3215	6.0	35	100	6	3
N55PLX3216	6.0	40	100	6	3

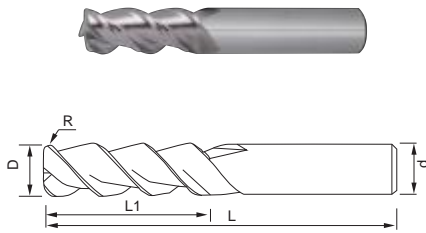
Long shank tungsten steel 3flutes aluminium flat milling cutter

钨钢三刃长刃铝用平铣刀

Code No.	D	L1	L	d	T
N55PLX3217	6.0	50	150	6	3
N55PLX3218	8.0	60	150	8	3
N55PLX3219	10.0	65	150	10	3
N55PLX3220	12.0	75	150	12	3
N55PLX3221	14.0	75	150	14	3
N55PLX3222	16.0	75	150	16	3
N55PLX3223	20.0	75	150	20	3

Tungsten steel 3flutes aluminium corner radius milling cutter

钨钢三刃标准铝用圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material

N

Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

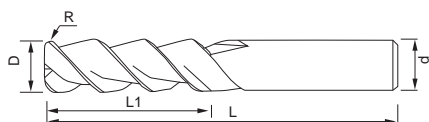
Suitable for HRC20 to ~HRC45 Steel, Alloy Steel, Cast Iron, Aluminum Alloy;
适用于HRC20~HRC45钢、合金钢、铸铁、铝合金;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Code No.	D	R	L1	L	d	T
N55YLX3101	4.0	0.50R	12	50	4	3
N55YLX3102	5.0	0.50R	13	50	6	3
N55YLX3103	6.0	0.50R	15	50	6	3
N55YLX3104	6.0	1.00R	15	50	6	3
N55YLX3105	8.0	0.50R	20	60	8	3
N55YLX3106	8.0	1.00R	20	60	8	3
N55YLX3107	8.0	1.50R	20	60	8	3
N55YLX3108	8.0	2.00R	20	60	8	3
N55YLX3109	10.0	0.50R	25	75	10	3
N55YLX3110	10.0	1.00R	25	75	10	3
N55YLX3111	10.0	1.50R	25	75	10	3
N55YLX3112	10.0	2.00R	25	75	10	3
N55YLX3113	12.0	0.50R	30	75	12	3
N55YLX3114	12.0	1.00R	30	75	12	3
N55YLX3115	12.0	1.50R	30	75	12	3
N55YLX3116	12.0	2.00R	30	75	12	3
N55YLX3117	14.0	0.50R	40	100	14	3
N55YLX3118	16.0	0.50R	45	100	16	3
N55YLX3119	16.0	1.00R	45	100	16	3
N55YLX3120	16.0	2.00R	45	100	16	3
N55YLX3121	20.0	1.00R	45	100	20	3
N55YLX3122	20.0	2.00R	45	100	20	3

Tungsten steel 3flutes long aluminium corner radius milling cutter

钨钢三刃加长铝用圆鼻铣刀



Size(mm) Tolerance(mm)

R≤2.5	±0.015
R>2.5	±0.020

Material

N

Processing graphics



Using high quality tungsten steel, with high brightness grinding, have good cutting performance;
采用优质钨钢，高亮度研磨，具有良好的排屑性能;

Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝，铝合金，其它有色金属;

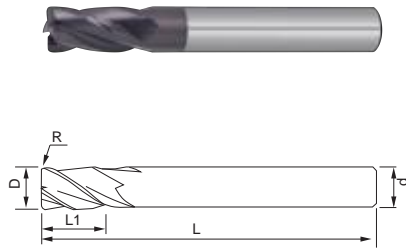
Cutter tip is treated by micro chamfering to reduce machining vibration;
刀尖经过微倒角处理，减少加工震动;

Code No.	D	R	L1	L	d	T
N55YLX3123	4.0	0.50R	16	75	4	3
N55YLX3124	5.0	0.50R	18	75	6	3
N55YLX3125	5.0	0.50R	18	100	6	3
N55YLX3126	6.0	0.50R	20	75	6	3
N55YLX3127	6.0	0.50R	20	100	6	3
N55YLX3128	6.0	1.00R	20	75	6	3
N55YLX3129	6.0	1.00R	20	100	6	3
N55YLX3130	8.0	0.50R	25	75	8	3
N55YLX3131	8.0	0.50R	30	100	8	3
N55YLX3132	8.0	1.00R	25	75	8	3
N55YLX3133	8.0	1.00R	30	100	8	3
N55YLX3134	8.0	1.50R	25	75	8	3
N55YLX3135	8.0	1.50R	30	100	8	3
N55YLX3136	8.0	2.00R	25	75	8	3
N55YLX3137	8.0	2.00R	30	100	8	3
N55YLX3138	10.0	0.50R	30	100	10	3
N55YLX3139	10.0	1.00R	30	100	10	3
N55YLX3140	10.0	1.50R	30	100	10	3
N55YLX3141	10.0	2.00R	30	100	10	3
N55YLX3142	12.0	0.50R	35	100	12	3
N55YLX3143	12.0	1.00R	35	100	12	3
N55YLX3144	12.0	1.50R	35	100	12	3
N55YLX3145	12.0	2.00R	35	100	12	3
N55YLX3146	16.0	0.50R	55	150	16	3
N55YLX3147	16.0	1.00R	55	150	16	3
N55YLX3148	16.0	2.00R	55	150	16	3
N55YLX3149	20.0	0.50R	55	150	20	3
N55YLX3150	20.0	1.00R	55	150	20	3
N55YLX3151	20.0	2.00R	55	150	20	3



Tungsten steel 4flutes corner radius milling cutter

钨钢四刃标准圆鼻铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数；

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30 ~ HRC45钢、合金钢、铸铁、不锈钢；

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N55YPX4101	1.0	0.10R	3	50	4	4
N55YPX4102	1.0	0.20R	3	50	4	4
N55YPX4103	1.5	0.10R	4.5	50	4	4
N55YPX4104	1.5	0.20R	4.5	50	4	4
N55YPX4105	1.5	0.50R	4.5	50	4	4
N55YPX4106	2.0	0.10R	6	50	4	4
N55YPX4107	2.0	0.20R	6	50	4	4
N55YPX4108	2.0	0.30R	6	50	4	4
N55YPX4109	2.0	0.50R	6	50	4	4
N55YPX4110	2.5	0.10R	7.5	50	4	4
N55YPX4111	2.5	0.20R	7.5	50	4	4
N55YPX4112	2.5	0.30R	7.5	50	4	4
N55YPX4113	2.5	0.50R	7.5	50	4	4
N55YPX4114	3.0	0.20R	9	50	4	4
N55YPX4115	3.0	0.30R	9	50	4	4
N55YPX4116	3.0	0.50R	9	50	4	4
N55YPX4117	3.0	1.00R	9	50	4	4
N55YPX4118	4.0	0.20R	12	50	4	4
N55YPX4119	4.0	0.30R	12	50	4	4
N55YPX4120	4.0	0.50R	12	50	4	4
N55YPX4121	4.0	1.00R	12	50	4	4
N55YPX4122	4.0	1.50R	12	50	4	4
N55YPX4123	5.0	0.20R	13	50	6	4
N55YPX4124	5.0	0.50R	13	50	6	4
N55YPX4125	5.0	1.00R	13	50	6	4
N55YPX4126	6.0	0.20R	15	50	6	4
N55YPX4127	6.0	0.30R	15	50	6	4
N55YPX4128	6.0	0.50R	15	50	6	4
N55YPX4129	6.0	1.00R	15	50	6	4
N55YPX4130	6.0	1.50R	15	50	6	4
N55YPX4131	6.0	2.00R	15	50	6	4
N55YPX4132	8.0	0.20R	20	50	8	4
N55YPX4133	8.0	0.30R	20	60	8	4
N55YPX4134	8.0	0.50R	20	60	8	4
N55YPX4135	8.0	1.00R	20	60	8	4
N55YPX4136	8.0	1.50R	20	60	8	4

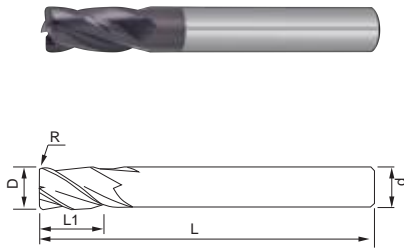
Tungsten steel 4flutes corner radius milling cutter

钨钢四刃标准圆鼻铣刀

Code No.	D	R	L1	L	d	T
N55YPX4137	8.0	2.00R	20	60	8	4
N55YPX4138	10.0	0.20R	25	75	10	4
N55YPX4139	10.0	0.30R	25	75	10	4
N55YPX4140	10.0	0.50R	25	75	10	4
N55YPX4141	10.0	1.00R	25	75	10	4
N55YPX4142	10.0	1.50R	25	75	10	4
N55YPX4143	10.0	2.00R	25	75	10	4
N55YPX4144	12.0	0.50R	30	75	12	4
N55YPX4145	12.0	1.00R	30	75	12	4
N55YPX4146	12.0	1.50R	30	75	12	4
N55YPX4147	12.0	2.00R	30	75	12	4
N55YPX4148	14.0	0.50R	40	100	14	4
N55YPX4149	14.0	1.00R	40	100	14	4
N55YPX4150	16.0	0.50R	45	100	16	4
N55YPX4151	16.0	1.00R	45	100	16	4
N55YPX4152	20.0	0.50R	45	100	20	4
N55YPX4153	20.0	1.00R	45	100	20	4

Tungsten steel 4flutes long corner radius milling cutter

钨钢四刃加长圆鼻铣刀



Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N55YPX4154	1.0	0.20R	4	75	4	4
N55YPX4155	1.0	0.20R	4	100	4	4
N55YPX4156	1.5	0.20R	6	75	4	4
N55YPX4157	1.5	0.20R	6	100	4	4
N55YPX4158	2.0	0.20R	8	75	4	4
N55YPX4159	2.0	0.20R	8	100	4	4
N55YPX4160	3.0	0.20R	12	75	4	4
N55YPX4161	3.0	0.20R	12	100	4	4
N55YPX4162	4.0	0.20R	16	75	4	4
N55YPX4163	4.0	0.20R	16	100	4	4
N55YPX4164	4.0	0.50R	16	75	4	4
N55YPX4165	4.0	0.50R	16	100	4	4
N55YPX4166	5.0	0.20R	18	75	6	4
N55YPX4167	5.0	0.20R	18	100	6	4
N55YPX4168	5.0	0.50R	18	75	6	4
N55YPX4169	5.0	0.50R	18	100	6	4
N55YPX4170	6.0	0.20R	20	75	6	4
N55YPX4171	6.0	0.20R	20	100	6	4
N55YPX4172	6.0	0.20R	25	150	6	4
N55YPX4173	6.0	0.50R	20	75	6	4
N55YPX4174	6.0	0.50R	20	100	6	4
N55YPX4175	6.0	0.50R	25	150	6	4
N55YPX4176	6.0	1.00R	20	75	6	4
N55YPX4177	6.0	1.00R	20	100	6	4
N55YPX4178	6.0	1.00R	25	150	6	4
N55YPX4179	8.0	0.20R	25	75	8	4
N55YPX4180	8.0	0.20R	30	100	8	4
N55YPX4181	8.0	0.20R	35	150	8	4
N55YPX4182	8.0	0.50R	25	75	8	4
N55YPX4183	8.0	0.50R	30	100	8	4
N55YPX4184	8.0	0.50R	35	150	8	4
N55YPX4185	8.0	1.00R	25	75	8	4
N55YPX4186	8.0	1.00R	30	100	8	4
N55YPX4187	8.0	1.00R	35	150	8	4
N55YPX4188	10.0	0.20R	30	100	10	4
N55YPX4189	10.0	0.20R	35	150	10	4

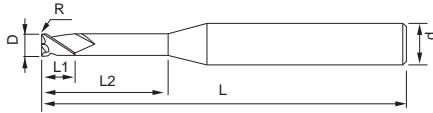
Tungsten steel 4flutes long corner radius milling cutter

钨钢四刃加长圆鼻铣刀

Code No.	D	R	L1	L	d	T
N55YPX4190	10.0	0.50R	30	100	10	4
N55YPX4191	10.0	0.50R	35	150	10	4
N55YPX4192	10.0	1.00R	30	100	10	4
N55YPX4193	10.0	1.00R	35	150	10	4
N55YPX4194	12.0	0.50R	35	100	12	4
N55YPX4195	12.0	0.50R	40	150	12	4
N55YPX4196	12.0	1.00R	35	100	12	4
N55YPX4197	12.0	1.00R	40	150	12	4
N55YPX4198	16.0	0.50R	55	150	16	4
N55YPX4199	16.0	1.00R	55	150	16	4
N55YPX4200	20.0	0.50R	55	150	20	4
N55YPX4201	20.0	1.00R	55	150	20	4

Tungsten steel 4flutes long neck deep groove corner radius milling cutter

钨钢四刃长颈深沟圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

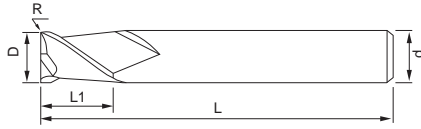
Code No.	D	R	L1	L2	L	d	T
N55YPX4202	1.0	0.20R	3	6	50	4	4
N55YPX4203	1.0	0.20R	3	6	75	4	4
N55YPX4204	1.0	0.20R	3	9	50	4	4
N55YPX4205	1.0	0.20R	3	9	75	4	4
N55YPX4206	1.0	0.20R	3	12	50	4	4
N55YPX4207	1.0	0.20R	3	12	75	4	4
N55YPX4208	1.5	0.20R	4	9	50	4	4
N55YPX4209	1.5	0.20R	4	9	75	4	4
N55YPX4210	1.5	0.20R	4	12	50	4	4
N55YPX4211	1.5	0.20R	4	12	75	4	4
N55YPX4212	1.5	0.20R	4	15	50	4	4
N55YPX4213	1.5	0.20R	4	15	75	4	4
N55YPX4214	2.0	0.20R	6	9	50	4	4
N55YPX4215	2.0	0.20R	6	9	75	4	4
N55YPX4216	2.0	0.20R	6	12	50	4	4
N55YPX4217	2.0	0.20R	6	12	75	4	4
N55YPX4218	2.0	0.20R	6	15	50	4	4
N55YPX4219	2.0	0.20R	6	15	75	4	4
N55YPX4220	2.5	0.20R	7	12	50	4	4
N55YPX4221	2.5	0.20R	7	12	75	4	4
N55YPX4222	2.5	0.20R	7	16	50	4	4
N55YPX4223	2.5	0.20R	7	16	75	4	4
N55YPX4224	3.0	0.20R	9	15	50	4	4
N55YPX4225	3.0	0.20R	9	15	75	4	4
N55YPX4226	3.0	0.20R	9	20	50	4	4
N55YPX4227	3.0	0.20R	9	20	75	4	4
N55YPX4228	4.0	0.20R	10	20	50	4	4
N55YPX4229	4.0	0.20R	10	20	75	4	4
N55YPX4230	4.0	0.20R	10	25	75	4	4
N55YPX4231	4.0	0.50R	10	20	50	4	4
N55YPX4232	4.0	0.50R	10	20	75	4	4
N55YPX4233	4.0	0.50R	10	25	75	4	4
N55YPX4234	5.0	0.20R	12	20	50	6	4
N55YPX4235	5.0	0.20R	12	20	75	6	4
N55YPX4236	5.0	0.20R	12	25	75	6	4
N55YPX4237	5.0	0.50R	12	20	50	6	4

Tungsten steel 4flutes long neck deep groove corner radius milling cutter 钨钢四刃长颈深沟圆鼻铣刀

Code No.	D	R	L1	L2	L	d	T
N55YPX4238	5.0	0.50R	12	20	75	6	4
N55YPX4239	5.0	0.50R	12	25	75	6	4
N55YPX4240	6.0	0.20R	12	30	75	6	4
N55YPX4241	6.0	0.20R	12	30	100	6	4
N55YPX4242	6.0	0.50R	12	30	75	6	4
N55YPX4243	6.0	0.50R	12	30	100	6	4
N55YPX4244	6.0	1.00R	12	30	75	6	4
N55YPX4245	6.0	1.00R	12	30	100	6	4
N55YPX4246	8.0	0.50R	16	40	75	8	4
N55YPX4247	8.0	0.50R	16	40	100	8	4
N55YPX4248	8.0	0.50R	16	40	150	8	4
N55YPX4249	8.0	1.00R	16	40	100	8	4
N55YPX4250	8.0	1.00R	16	40	150	8	4
N55YPX4251	10.0	0.50R	20	50	100	10	4
N55YPX4252	10.0	0.50R	20	50	150	10	4
N55YPX4253	10.0	1.00R	20	50	100	10	4
N55YPX4254	10.0	1.00R	20	50	150	10	4
N55YPX4255	12.0	0.50R	24	50	100	12	4
N55YPX4256	12.0	0.50R	24	50	150	12	4
N55YPX4257	12.0	1.00R	24	50	100	12	4
N55YPX4258	12.0	1.00R	24	50	150	12	4
N55YPX4259	16.0	0.50R	32	50	150	16	4
N55YPX4260	16.0	1.00R	32	50	150	16	4
N55YPX4261	20.0	0.50R	40	60	150	20	4
N55YPX4262	20.0	1.00R	40	60	150	20	4

Tungsten steel 2flutes corner radius milling cutter

钨钢二刃标准圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



UNICO coatings have excellent wear resistance and reduce friction coefficient;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to ~HRC45 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30~HRC45钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Code No.	D	R	L1	L	d	T
N55YPX2101	1.0	0.10R	3	50	4	2
N55YPX2102	1.0	0.20R	3	50	4	2
N55YPX2103	1.5	0.10R	4.5	50	4	2
N55YPX2104	1.5	0.20R	4.5	50	4	2
N55YPX2105	1.5	0.50R	4.5	50	4	2
N55YPX2106	2.0	0.10R	6	50	4	2
N55YPX2107	2.0	0.20R	6	50	4	2
N55YPX2108	2.0	0.30R	6	50	4	2
N55YPX2109	2.0	0.50R	6	50	4	2
N55YPX2110	2.5	0.10R	7.5	50	4	2
N55YPX2111	2.5	0.20R	7.5	50	4	2
N55YPX2112	2.5	0.30R	7.5	50	4	2
N55YPX2113	2.5	0.50R	7.5	50	4	2
N55YPX2114	3.0	0.20R	9	50	4	2
N55YPX2115	3.0	0.30R	9	50	4	2
N55YPX2116	3.0	0.50R	9	50	4	2
N55YPX2117	3.0	1.00R	9	50	4	2
N55YPX2118	4.0	0.20R	12	50	4	2
N55YPX2119	4.0	0.30R	12	50	4	2
N55YPX2120	4.0	0.50R	12	50	4	2
N55YPX2121	4.0	1.00R	12	50	4	2
N55YPX2122	4.0	1.50R	12	50	4	2
N55YPX2123	5.0	0.20R	13	50	6	2
N55YPX2124	5.0	0.50R	13	50	6	2
N55YPX2125	5.0	1.00R	13	50	6	2
N55YPX2126	6.0	0.20R	15	50	6	2
N55YPX2127	6.0	0.30R	15	50	6	2
N55YPX2128	6.0	0.50R	15	50	6	2
N55YPX2129	6.0	1.00R	15	50	6	2
N55YPX2130	6.0	1.50R	15	50	6	2
N55YPX2131	6.0	2.00R	15	50	6	2
N55YPX2132	8.0	0.20R	20	50	8	2
N55YPX2133	8.0	0.30R	20	60	8	2
N55YPX2134	8.0	0.50R	20	60	8	2
N55YPX2135	8.0	1.00R	20	60	8	2
N55YPX2136	8.0	1.50R	20	60	8	2

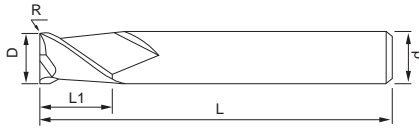
Tungsten steel 2flutes corner radiuse milling cutter

钨钢二刃标准圆鼻铣刀

Code No.	D	R	L1	L	d	T
N55YPX2137	8.0	2.00R	20	60	8	2
N55YPX2138	10.0	0.20R	25	75	10	2
N55YPX2139	10.0	0.30R	25	75	10	2
N55YPX2140	10.0	0.50R	25	75	10	2
N55YPX2141	10.0	1.00R	25	75	10	2
N55YPX2142	10.0	1.50R	25	75	10	2
N55YPX2143	10.0	2.00R	25	75	10	2
N55YPX2144	12.0	0.50R	30	75	12	2
N55YPX2145	12.0	1.00R	30	75	12	2
N55YPX2146	12.0	1.50R	30	75	12	2
N55YPX2147	12.0	2.00R	30	75	12	2
N55YPX2148	14.0	0.50R	40	100	14	2
N55YPX2149	14.0	1.00R	40	100	14	2
N55YPX2150	16.0	0.50R	45	100	16	2
N55YPX2151	16.0	1.00R	45	100	16	2
N55YPX2152	20.0	0.50R	45	100	20	2
N55YPX2153	20.0	1.00R	45	100	20	2

Tungsten steel 2flutes long corner radius milling cutter

钨钢二刃加长圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



UNICO Coating provides superior wear resistance and reduces the coefficient of friction;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to HRC55 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30 ~ HRC55钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

Code No.	D	R	L1	L	d	T
N55YPX2154	1.0	0.20R	4	75	4	2
N55YPX2155	1.0	0.20R	4	100	4	2
N55YPX2156	1.5	0.20R	6	75	4	2
N55YPX2157	1.5	0.20R	6	100	4	2
N55YPX2158	2.0	0.20R	8	75	4	2
N55YPX2159	2.0	0.20R	8	100	4	2
N55YPX2160	3.0	0.20R	12	75	4	2
N55YPX2161	3.0	0.20R	12	100	4	2
N55YPX2162	4.0	0.20R	16	75	4	2
N55YPX2163	4.0	0.20R	16	100	4	2
N55YPX2164	4.0	0.50R	16	75	4	2
N55YPX2165	4.0	0.50R	16	100	4	2
N55YPX2166	5.0	0.20R	18	75	6	2
N55YPX2167	5.0	0.20R	18	100	6	2
N55YPX2168	5.0	0.50R	18	75	6	2
N55YPX2169	5.0	0.50R	18	100	6	2
N55YPX2170	6.0	0.20R	20	75	6	2
N55YPX2171	6.0	0.20R	20	100	6	2
N55YPX2172	6.0	0.20R	25	150	6	2
N55YPX2173	6.0	0.50R	20	75	6	2
N55YPX2174	6.0	0.50R	20	100	6	2
N55YPX2175	6.0	0.50R	25	150	6	2
N55YPX2176	6.0	1.00R	20	75	6	2
N55YPX2177	6.0	1.00R	20	100	6	2
N55YPX2178	6.0	1.00R	25	150	6	2
N55YPX2179	8.0	0.20R	25	75	8	2
N55YPX2180	8.0	0.20R	30	100	8	2
N55YPX2181	8.0	0.20R	35	150	8	2
N55YPX2182	8.0	0.50R	25	75	8	2
N55YPX2183	8.0	0.50R	30	100	8	2
N55YPX2184	8.0	0.50R	35	150	8	2
N55YPX2185	8.0	1.00R	25	75	8	2
N55YPX2186	8.0	1.00R	30	100	8	2
N55YPX2187	8.0	1.00R	35	150	8	2
N55YPX2188	10.0	0.20R	30	100	10	2
N55YPX2189	10.0	0.20R	35	150	10	2

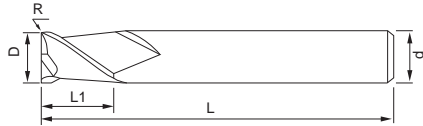
Tungsten steel 2flutes long corner radius milling cutter

钨钢二刃加长圆鼻铣刀

Code No.	D	R	L1	L	d	T
N55YPX2190	10.0	0.50R	30	100	10	2
N55YPX2191	10.0	0.50R	35	150	10	2
N55YPX2192	10.0	1.00R	30	100	10	2
N55YPX2193	10.0	1.00R	35	150	10	2
N55YPX2194	12.0	0.50R	35	100	12	2
N55YPX2195	12.0	0.50R	40	150	12	2
N55YPX2196	12.0	1.00R	35	100	12	2
N55YPX2197	12.0	1.00R	40	150	12	2
N55YPX2198	14.0	0.50R	40	150	14	2
N55YPX2199	14.0	1.00R	40	150	14	2
N55YPX2200	16.0	0.50R	55	150	16	2
N55YPX2201	16.0	1.00R	55	150	16	2
N55YPX2202	20.0	0.50R	55	150	20	2
N55YPX2203	20.0	1.00R	55	150	20	2

Tungsten steel 2flutes long neck deep groove corner radius milling cutter

钨钢二刃长颈深沟圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



UNICO Coating provides superior wear resistance and reduces the coefficient of friction;
UNICO涂层具有优异的耐磨性，减少了摩擦系数;

Suitable for HRC30 to HRC55 Steel, Alloy Steel, Cast Iron, Stainless steel;
适用于HRC30 ~ HRC55钢、合金钢、铸铁、不锈钢;

High precision cutting, excellent cutting ability of cutting edges;
高精度切削，具有良好的刃口切削能力;

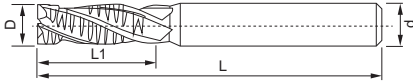
Code No.	D	R	L1	L2	L	d	T
N55YPX2204	1.0	0.20R	3	6	50	4	4
N55YPX2205	1.0	0.20R	3	6	75	4	4
N55YPX2206	1.0	0.20R	3	9	50	4	4
N55YPX2207	1.0	0.20R	3	9	75	4	4
N55YPX2208	1.0	0.20R	3	12	50	4	4
N55YPX2209	1.0	0.20R	3	12	75	4	4
N55YPX2210	1.5	0.20R	4	9	50	4	4
N55YPX2211	1.5	0.20R	4	9	75	4	4
N55YPX2212	1.5	0.20R	4	12	50	4	4
N55YPX2213	1.5	0.20R	4	12	75	4	4
N55YPX2214	1.5	0.20R	4	15	50	4	4
N55YPX2215	1.5	0.20R	4	15	75	4	4
N55YPX2216	2.0	0.20R	6	9	50	4	4
N55YPX2217	2.0	0.20R	6	9	75	4	4
N55YPX2218	2.0	0.20R	6	12	50	4	4
N55YPX2219	2.0	0.20R	6	12	75	4	4
N55YPX2220	2.0	0.20R	6	15	50	4	4
N55YPX2221	2.0	0.20R	6	15	75	4	4
N55YPX2222	2.5	0.20R	7	12	50	4	4
N55YPX2223	2.5	0.20R	7	12	75	4	4
N55YPX2224	2.5	0.20R	7	16	50	4	4
N55YPX2225	2.5	0.20R	7	16	75	4	4
N55YPX2226	3.0	0.20R	9	15	50	4	4
N55YPX2227	3.0	0.20R	9	15	75	4	4
N55YPX2228	3.0	0.20R	9	20	50	4	4
N55YPX2229	3.0	0.20R	9	20	75	4	4
N55YPX2230	4.0	0.20R	10	20	50	4	4
N55YPX2231	4.0	0.20R	10	20	75	4	4
N55YPX2232	4.0	0.20R	10	25	75	4	4
N55YPX2233	4.0	0.50R	10	20	50	4	4
N55YPX2234	4.0	0.50R	10	20	75	4	4
N55YPX2235	4.0	0.50R	10	25	75	4	4
N55YPX2236	5.0	0.20R	12	20	50	6	4
N55YPX2237	5.0	0.20R	12	20	75	6	4
N55YPX2238	5.0	0.20R	12	25	75	6	4
N55YPX2239	5.0	0.50R	12	20	50	6	4

Tungsten steel 2flutes long neck deep groove corner radius milling cutter 钨钢二刃长颈深沟圆鼻铣刀

Code No.	D	R	L1	L2	L	d	T
N55YPX2240	5.0	0.50R	12	20	75	6	2
N55YPX2241	5.0	0.50R	12	25	75	6	2
N55YPX2242	6.0	0.20R	12	30	75	6	2
N55YPX2243	6.0	0.20R	12	30	100	6	2
N55YPX2244	6.0	0.50R	12	30	75	6	2
N55YPX2245	6.0	0.50R	12	30	100	6	2
N55YPX2246	6.0	1.00R	12	30	75	6	2
N55YPX2247	6.0	1.00R	12	30	100	6	2
N55YPX2248	8.0	0.50R	16	40	75	8	2
N55YPX2249	8.0	0.50R	16	40	100	8	2
N55YPX2250	8.0	0.50R	16	40	150	8	2
N55YPX2251	8.0	1.00R	16	40	75	8	2
N55YPX2252	8.0	1.00R	16	40	100	8	2
N55YPX2253	8.0	1.00R	16	40	150	8	2
N55YPX2254	10.0	0.50R	20	50	100	10	2
N55YPX2255	10.0	0.50R	20	50	150	10	2
N55YPX2256	10.0	1.00R	20	50	100	10	2
N55YPX2257	10.0	1.00R	20	50	150	10	2
N55YPX2258	12.0	0.50R	24	50	100	12	2
N55YPX2259	12.0	0.50R	24	50	150	12	2
N55YPX2260	12.0	1.00R	24	50	100	12	2
N55YPX2261	12.0	1.00R	24	50	150	12	2
N55YPX2262	16.0	0.50R	32	50	150	16	2
N55YPX2263	16.0	1.00R	32	50	150	16	2
N55YPX2264	20.0	0.50R	40	60	150	20	2
N55YPX2265	20.0	1.00R	40	60	150	20	2

Tungsten steel 3flutes aluminium rough milling cutter

钨钢三刃标准铝用粗皮铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material

N

Processing graphics



Using high quality tungsten steel, special coating has good cutting performance;
采用优质钨钢, 具有良好的排削性能;

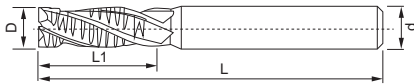
Suitable for processing aluminium, aluminium alloy, other non-ferrous metals;
适合加工铝, 铝合金, 其它有色金属;

Large cutting depth, large feed, rough processing, effectively improve production efficiency;
大切深, 大进给, 粗加工, 有效提高生产效率;

Code No.	D	L1	L	d	T
N55PLC3101	4.0	12	50	4	3
N55PLC3102	6.0	18	50	6	3
N55PLC3103	7.0	20	60	8	3
N55PLC3104	8.0	25	60	8	3
N55PLC3105	9.0	25	75	10	3
N55PLC3106	10.0	30	75	10	3
N55PLC3107	11.0	30	75	12	3
N55PLC3108	12.0	30	75	12	3
N55PLC3109	14.0	40	100	14	3
N55PLC3110	16.0	45	100	16	3
N55PLC3111	20.0	48	100	20	3
N55PLC3112	8.0	30	100	8	3
N55PLC3113	8.0	35	150	8	3
N55PLC3114	10.0	35	100	10	3
N55PLC3115	10.0	40	150	10	3
N55PLC3116	12.0	40	100	12	3
N55PLC3117	12.0	50	150	12	3
N55PLC3118	16.0	60	150	16	3
N55PLC3119	16.0	70	200	16	3
N55PLC3120	20.0	60	150	20	3
N55PLC3121	20.0	75	200	20	3

Tungsten steel 4flutes rough milling cutter

钨钢四刃标准粗皮铣刀



Material

N

Processing graphics



Using high quality tungsten steel, special coating has good cutting performance;
采用优质钨钢，特殊涂层具有良好的排屑性能;

Suitable for processing hardness HRC30~HRC55, steel, cast iron, stainless steel;
适合加工硬度HRC20~HRC45，钢，铸铁，不锈钢;

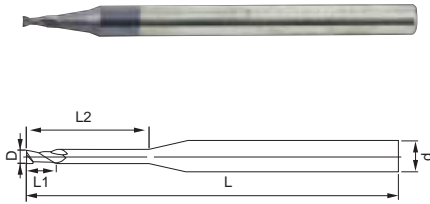
Large cutting depth, large feed, rough processing, effectively improve production efficiency;
大切深，大进给，粗加工，有效提高生产效率;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PPC3101	4.0	12	50	4	4
N55PPC3102	6.0	18	50	6	4
N55PPC3103	7.0	20	60	8	4
N55PPC3104	8.0	25	60	8	4
N55PPC3105	9.0	25	75	10	4
N55PPC3106	10.0	30	75	10	4
N55PPC3107	11.0	30	75	12	4
N55PPC3108	12.0	30	75	12	4
N55PPC3109	14.0	40	100	14	4
N55PPC3110	16.0	45	100	16	4
N55PPC3111	20.0	48	100	20	4
N55PPC3112	8.0	30	100	8	4
N55PPC3113	8.0	35	150	8	4
N55PPC3114	10.0	35	100	10	4
N55PPC3115	10.0	40	150	10	4
N55PPC3116	12.0	40	100	12	4
N55PPC3117	12.0	50	150	12	4
N55PPC3118	16.0	60	150	16	4
N55PPC3119	16.0	70	200	16	4
N55PPC3120	20.0	60	150	20	4
N55PPC3121	20.0	75	200	20	4

Tungsten steel 2flutes deep hook flat milling cutter

钨钢二刃深沟标准平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC55. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛, HRC55以下材料加工, 属于通用型材料加工, 如钢、铸铁、和其它非铁金属;

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

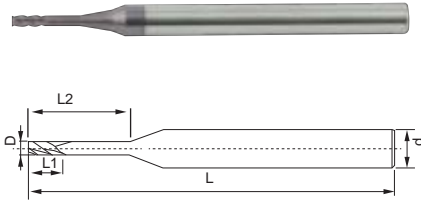
Code No.	D	L1	L2	L	d	T
N55PSX2101	1.0	3	6	50	4	2
N55PSX2102	1.0	3	6	75	4	2
N55PSX2103	1.0	3	9	50	4	2
N55PSX2104	1.0	3	9	75	4	2
N55PSX2105	1.0	3	12	50	4	2
N55PSX2106	1.0	3	12	75	4	2
N55PSX2107	1.5	4	9	50	4	2
N55PSX2108	1.5	4	9	75	4	2
N55PSX2109	1.5	4	12	50	4	2
N55PSX2110	1.5	4	12	75	4	2
N55PSX2111	1.5	4	15	50	4	2
N55PSX2112	1.5	4	15	75	4	2
N55PSX2113	2.0	6	9	50	4	2
N55PSX2114	2.0	6	9	75	4	2
N55PSX2115	2.0	6	12	50	4	2
N55PSX2116	2.0	6	12	75	4	2
N55PSX2117	2.0	6	15	50	4	2
N55PSX2118	2.0	6	15	75	4	2
N55PSX2119	2.5	7	12	50	4	2
N55PSX2120	2.5	7	12	75	4	2
N55PSX2121	2.5	7	16	50	4	2
N55PSX2122	2.5	7	16	75	4	2
N55PSX2123	3.0	9	15	50	4	2
N55PSX2124	3.0	9	15	75	4	2
N55PSX2125	3.0	9	20	50	4	2
N55PSX2126	3.0	9	20	75	4	2
N55PSX2127	4.0	10	20	50	4	2
N55PSX2128	4.0	10	20	75	4	2
N55PSX2129	4.0	10	25	75	4	2
N55PSX2130	4.0	10	20	50	4	2
N55PSX2131	4.0	10	20	75	4	2
N55PSX2132	4.0	10	25	75	4	2

N550 deep groove cutter Series



Tungsten steel 4flutes deep hook flat milling cutter

钨钢四刃深勾标准平铣刀



Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC55. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛，HRC55以下材料加工，属于通用型材料加工，如钢、铸铁、和其它非铁金属；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

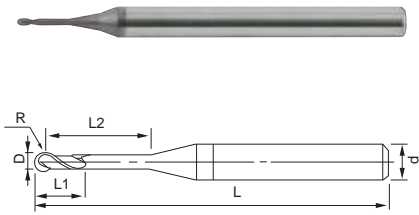
Code No.	D	L1	L2	L	d	T
N55PSX4101	1.0	3	6	50	4	4
N55PSX4102	1.0	3	6	75	4	4
N55PSX4103	1.0	3	9	50	4	4
N55PSX4104	1.0	3	9	75	4	4
N55PSX4105	1.0	3	12	50	4	4
N55PSX4106	1.0	3	12	75	4	4
N55PSX4107	1.5	4	9	50	4	4
N55PSX4108	1.5	4	9	75	4	4
N55PSX4109	1.5	4	12	50	4	4
N55PSX4110	1.5	4	12	75	4	4
N55PSX4111	1.5	4	15	50	4	4
N55PSX4112	1.5	4	15	75	4	4
N55PSX4113	2.0	6	9	50	4	4
N55PSX4114	2.0	6	9	75	4	4
N55PSX4115	2.0	6	12	50	4	4
N55PSX4116	2.0	6	12	75	4	4
N55PSX4117	2.0	6	15	50	4	4
N55PSX4118	2.0	6	15	75	4	4
N55PSX4119	2.5	7	12	50	4	4
N55PSX4120	2.5	7	12	75	4	4
N55PSX4121	2.5	7	16	50	4	4
N55PSX4122	2.5	7	16	75	4	4
N55PSX4123	3.0	9	15	50	4	4
N55PSX4124	3.0	9	15	75	4	4
N55PSX4125	3.0	9	20	50	4	4
N55PSX4126	3.0	9	20	75	4	4
N55PSX4127	4.0	10	20	50	4	4
N55PSX4128	4.0	10	20	75	4	4
N55PSX4129	4.0	10	25	75	4	4
N55PSX4130	4.0	10	20	50	4	4
N55PSX4131	4.0	10	20	75	4	4
N55PSX4132	4.0	10	25	75	4	4

N550 deep groove cutter Series



Tungsten steel 2flutes flat milling cutter

钨钢二刃深沟标准球铣刀



Material



Processing graphics



Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material is HRC55;
适合模具加工，加工材料硬度HRC55;

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

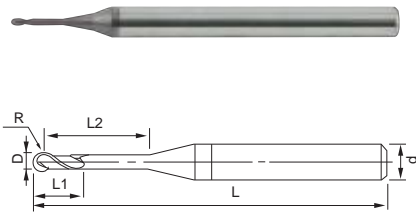
Code No.	D	R	L1	L2	L	d	T
N55QSX2101	1.0	0.50R	3	6	50	4	2
N55QSX2102	1.0	0.50R	3	6	75	4	2
N55QSX2103	1.0	0.50R	3	9	50	4	2
N55QSX2104	1.0	0.50R	3	9	75	4	2
N55QSX2105	1.0	0.50R	3	12	50	4	2
N55QSX2106	1.0	0.50R	3	12	75	4	2
N55QSX2107	1.5	0.75R	4	9	50	4	2
N55QSX2108	1.5	0.75R	4	9	75	4	2
N55QSX2109	1.5	0.75R	4	12	50	4	2
N55QSX2110	1.5	0.75R	4	12	75	4	2
N55QSX2111	1.5	0.75R	4	15	50	4	2
N55QSX2112	1.5	0.75R	4	15	75	4	2
N55QSX2113	2.0	1.00R	6	9	50	4	2
N55QSX2114	2.0	1.00R	6	9	75	4	2
N55QSX2115	2.0	1.00R	6	12	50	4	2
N55QSX2116	2.0	1.00R	6	12	75	4	2
N55QSX2117	2.0	1.00R	6	15	50	4	2
N55QSX2118	2.0	1.00R	6	15	75	4	2
N55QSX2119	2.5	1.25R	7	12	50	4	2
N55QSX2120	2.5	1.25R	7	12	75	4	2
N55QSX2121	2.5	1.25R	7	16	50	4	2
N55QSX2122	2.5	1.25R	7	16	75	4	2
N55QSX2123	3.0	1.50R	9	15	50	4	2
N55QSX2124	3.0	1.50R	9	15	75	4	2
N55QSX2125	3.0	1.50R	9	20	50	4	2
N55QSX2126	3.0	1.50R	9	20	75	4	2
N55QSX2127	4.0	2.00R	10	20	50	4	2
N55QSX2128	4.0	2.00R	10	20	75	4	2
N55QSX2129	4.0	2.00R	10	25	75	4	2
N55QSX2130	4.0	2.00R	10	20	50	4	2
N55QSX2131	4.0	2.00R	10	20	75	4	2
N55QSX2132	4.0	2.00R	10	25	75	4	2

N550 deep groove cutter Series



Tungsten steel 2flutes deep hook ballnose milling cutter

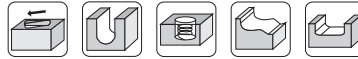
钨钢二刃深勾标准球铣刀



Material



Processing graphics



Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material is HRC55;
适合模具加工，加工材料硬度HRC55；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L2	L	d	T
N55QSX4101	1.0	0.50R	3	6	50	4	4
N55QSX4102	1.0	0.50R	3	6	75	4	4
N55QSX4103	1.0	0.50R	3	9	50	4	4
N55QSX4104	1.0	0.50R	3	9	75	4	4
N55QSX4105	1.0	0.50R	3	12	50	4	4
N55QSX4106	1.0	0.50R	3	12	75	4	4
N55QSX4107	1.5	0.75R	4	9	50	4	4
N55QSX4108	1.5	0.75R	4	9	75	4	4
N55QSX4109	1.5	0.75R	4	12	50	4	4
N55QSX4110	1.5	0.75R	4	12	75	4	4
N55QSX4111	1.5	0.75R	4	15	50	4	4
N55QSX4112	1.5	0.75R	4	15	75	4	4
N55QSX4113	2.0	1.00R	6	9	50	4	4
N55QSX4114	2.0	1.00R	6	9	75	4	4
N55QSX4115	2.0	1.00R	6	12	50	4	4
N55QSX4116	2.0	1.00R	6	12	75	4	4
N55QSX4117	2.0	1.00R	6	15	50	4	4
N55QSX4118	2.0	1.00R	6	15	75	4	4
N55QSX4119	2.5	1.25R	7	12	50	4	4
N55QSX4120	2.5	1.25R	7	12	75	4	4
N55QSX4121	2.5	1.25R	7	16	50	4	4
N55QSX4122	2.5	1.25R	7	16	75	4	4
N55QSX4123	3.0	1.50R	9	15	50	4	4
N55QSX4124	3.0	1.50R	9	15	75	4	4
N55QSX4125	3.0	1.50R	9	20	50	4	4
N55QSX4126	3.0	1.50R	9	20	75	4	4
N55QSX4127	4.0	2.00R	10	20	50	4	4
N55QSX4128	4.0	2.00R	10	20	75	4	4
N55QSX4129	4.0	2.00R	10	25	75	4	4
N55QSX4130	4.0	2.00R	10	20	50	4	4
N55QSX4131	4.0	2.00R	10	20	75	4	4
N55QSX4132	4.0	2.00R	10	25	75	4	4



Recommended Cutting Conditions

推荐切削参数

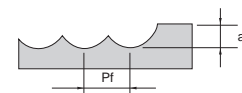
Working material	Hardened steel (HRC35-40 SKT、SKD)		Stainless steel (HRC25-30 SUS)		Cast iron (HRC25-30 HT250、QT450)	
Vc	100-140(m/min)		60-100(m/min)		60-120(m/min)	
Diameter	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)
1.0mm	38,200	0.010	25,400	0.010	31,000	0.013
1.5mm	25,400	0.010	16,900	0.011	21,000	0.014
2.0mm	19,100	0.012	12,700	0.012	16,000	0.015
2.5mm	15,200	0.013	10,000	0.012	12,700	0.016
3.0mm	12,700	0.014	8,400	0.013	10,600	0.017
4.0mm	9,500	0.018	6,300	0.014	8,000	0.023
5.0mm	7,600	0.020	5,000	0.016	6,300	0.025
6.0mm	6,300	0.027	4,200	0.021	5,300	0.035
8.0mm	4,700	0.036	3,100	0.028	4,000	0.046
10.0mm	3,800	0.050	2,500	0.040	3,100	0.066
12.0mm	3,100	0.060	2,100	0.048	2,600	0.079
14.0mm	2,700	0.070	1,800	0.052	2,200	0.090
16.0mm	2,380	0.080	1,600	0.060	2,000	0.110
20.0mm	1,900	0.100	1,200	0.080	1,600	0.130

Milling Amount
(mm)



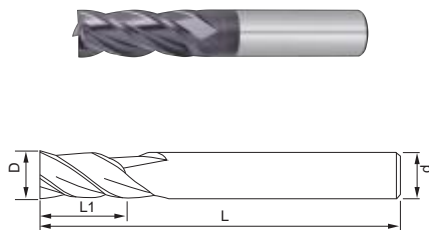
ap	ae	ap	ae	ap	ae
1.5D	0.05D	1.5D	0.03D	1.0D	0.02D
aeMax ≤ 1.0mm		aeMax ≤ 0.5mm		aeMax ≤ 0.5mm	

	ap	Pf
R ≤ 8	0.02D	0.1D
R > 8	0.32mm	0.1D



Tungsten steel 4flutes flat milling cutter

钨钢四刃标准平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC 45-60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛, HRC45-60均可加工, 属于通用型材料加工, 如钢、铸铁、不锈钢、钛合金和其它非铁金属;

Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm) Tolerance(mm)

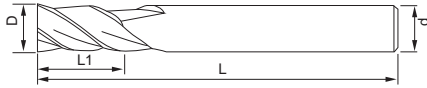
D≤5.5 +0~-0.015

D>5.5 +0~-0.020

Code No.	D	L1	L	d	T
N60PPX4101	1.0	3	50	4	4
N60PPX4102	1.5	4.5	50	4	4
N60PPX4103	2.0	6	50	4	4
N60PPX4104	2.5	7.5	50	4	4
N60PPX4105	3.0	9	50	4	4
N60PPX4106	3.5	10	50	4	4
N60PPX4107	4.0	12	50	4	4
N60PPX4108	4.5	13	50	6	4
N60PPX4109	5.0	15	50	6	4
N60PPX4110	5.5	16	50	6	4
N60PPX4111	6.0	15	50	6	4
N60PPX4112	6.0	18	50	6	4
N60PPX4113	7.0	20	60	8	4
N60PPX4114	8.0	20	60	8	4
N60PPX4115	8.0	25	60	8	4
N60PPX4116	9.0	27	75	10	4
N60PPX4117	10.0	25	75	10	4
N60PPX4118	10.0	30	75	10	4
N60PPX4119	11.0	30	75	12	4
N60PPX4120	12.0	30	75	12	4
N60PPX4121	12.0	35	75	12	4
N60PPX4122	13.0	40	100	13	4
N60PPX4123	14.0	40	100	14	4
N60PPX4124	15.0	42	100	16	4
N60PPX4125	16.0	45	100	16	4
N60PPX4126	17.0	45	100	18	4
N60PPX4127	18.0	45	100	18	4
N60PPX4128	19.0	45	100	20	4
N60PPX4129	20.0	48	100	20	4
N60PPX4130	3.0	9	50	3	4
N60PPX4131	5.0	15	50	5	4

Long shank tungsten steel 4flutes flat milling cutter

钨钢四刃长柄平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 45-60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛，HRC45-60均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could reduce vibration during processing;
不等螺旋角设计，减少加工过程中的震动；

Code No.	D	L1	L	d	T
N60PPX4132	1.0	3	50	6	4
N60PPX4133	1.0	4	75	4	4
N60PPX4134	1.0	4	75	6	4
N60PPX4135	1.0	4	100	4	4
N60PPX4136	1.0	4	100	6	4
N60PPX4137	1.5	4.5	50	6	4
N60PPX4138	1.5	6	75	4	4
N60PPX4139	1.5	6	75	6	4
N60PPX4140	1.5	6	100	4	4
N60PPX4141	1.5	6	100	6	4
N60PPX4142	2.0	6	50	6	4
N60PPX4143	2.0	8	75	4	4
N60PPX4144	2.0	8	100	6	4
N60PPX4145	2.0	8	100	4	4
N60PPX4146	2.0	8	100	6	4
N60PPX4147	2.5	7.5	50	6	4
N60PPX4148	2.5	10	75	4	4
N60PPX4149	2.5	10	75	6	4
N60PPX4150	2.5	10	100	4	4
N60PPX4151	2.5	10	100	6	4
N60PPX4152	3.0	12	75	3	4
N60PPX4153	3.0	12	100	3	4
N60PPX4154	3.0	9	50	6	4
N60PPX4155	3.0	12	75	4	4
N60PPX4156	3.0	12	75	6	4
N60PPX4157	3.0	12	100	4	4
N60PPX4158	3.0	12	100	6	4
N60PPX4159	3.5	10	50	6	4
N60PPX4160	4.0	12	50	6	4
N60PPX4161	4.0	16	75	4	4
N60PPX4162	4.0	16	75	6	4
N60PPX4163	4.0	16	100	4	4
N60PPX4164	4.0	16	100	6	4
N60PPX4165	5.0	18	75	5	4
N60PPX4166	5.0	18	100	5	4
N60PPX4167	5.0	18	75	6	4

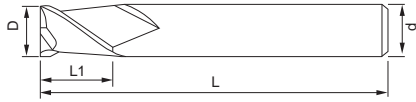
Long shank tungsten steel 4flutes flat milling cutter

钨钢四刃长柄平铣刀

Code No.	D	L1	L	d	T
N60PPX4168	5.0	18	100	6	4
N60PPX4169	6.0	22	75	6	4
N60PPX4170	6.0	22	100	6	4
N60PPX4171	6.0	25	150	6	4
N60PPX4172	8.0	25	75	8	4
N60PPX4173	8.0	30	100	8	4
N60PPX4174	8.0	35	150	8	4
N60PPX4175	8.0	40	200	8	4
N60PPX4176	10.0	30	100	10	4
N60PPX4177	10.0	40	150	10	4
N60PPX4178	10.0	45	200	10	4
N60PPX4179	12.0	35	100	12	4
N60PPX4180	12.0	45	150	12	4
N60PPX4181	12.0	45	200	12	4
N60PPX4182	14.0	45	150	14	4
N60PPX4183	14.0	50	200	14	4
N60PPX4184	16.0	50	150	16	4
N60PPX4185	16.0	55	200	16	4
N60PPX4186	18.0	55	150	18	4
N60PPX4187	20.0	55	150	20	4
N60PPX4188	20.0	55	200	20	4

Tungsten steel 4flutes long flat milling cutter

钨钢四刃长刃平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 45-60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛，HRC45-60均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Code No.	D	L1	L	d	T
N60PPX4189	1.0	6	50	4	4
N60PPX4190	1.0	6	50	6	4
N60PPX4191	1.0	8	50	4	4
N60PPX4192	1.0	8	50	6	4
N60PPX4193	1.0	10	50	4	4
N60PPX4194	1.0	10	50	6	4
N60PPX4195	1.5	7	50	4	4
N60PPX4196	1.5	7	50	6	4
N60PPX4197	1.5	9	50	4	4
N60PPX4198	1.5	9	50	6	4
N60PPX4199	1.5	11	50	4	4
N60PPX4200	1.5	11	50	6	4
N60PPX4201	2.0	10	50	4	4
N60PPX4202	2.0	10	50	6	4
N60PPX4203	2.0	13	50	4	4
N60PPX4204	2.0	13	50	6	4
N60PPX4205	2.0	16	50	4	4
N60PPX4206	2.0	16	50	6	4
N60PPX4207	2.5	10	50	4	4
N60PPX4208	2.5	10	50	6	4
N60PPX4209	2.5	14	50	4	4
N60PPX4210	2.5	14	50	6	4
N60PPX4211	2.5	18	50	4	4
N60PPX4212	2.5	18	50	6	4
N60PPX4213	3.0	12	50	4	4
N60PPX4214	3.0	12	50	6	4
N60PPX4215	3.0	16	50	4	4
N60PPX4216	3.0	16	50	6	4
N60PPX4217	3.0	20	50	4	4
N60PPX4218	3.0	20	50	6	4
N60PPX4219	4.0	20	75	4	4
N60PPX4220	4.0	25	100	4	4
N60PPX4221	5.0	23	75	6	4
N60PPX4222	5.0	25	100	6	4
N60PPX4223	6.0	35	100	6	4
N60PPX4224	6.0	40	100	6	4

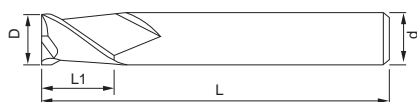
Tungsten steel 4flutes long flat milling cutter

钨钢四刃长刃平铣刀

Code No.	D	L1	L	d	T
N60PPX4225	6.0	40	150	6	4
N60PPX4226	8.0	35	100	8	4
N60PPX4227	8.0	40	100	8	4
N60PPX4228	8.0	40	150	8	4
N60PPX4229	10.0	45	100	10	4
N60PPX4230	10.0	50	100	10	4
N60PPX4231	10.0	50	150	10	4
N60PPX4232	12.0	45	100	12	4
N60PPX4233	12.0	50	100	12	4
N60PPX4234	12.0	50	150	12	4
N60PPX4235	14.0	65	150	14	4
N60PPX4236	14.0	75	150	14	4
N60PPX4237	16.0	65	150	16	4
N60PPX4238	16.0	75	150	16	4
N60PPX4239	20.0	65	150	20	4
N60PPX4240	20.0	75	150	20	4

Tungsten steel 2flutes flat milling cutter

钨钢二刃标准平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 45-60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

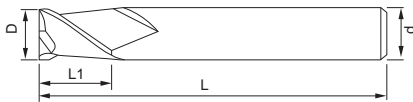
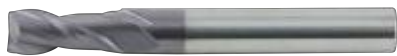
应用广泛，HRC45-60均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Code No.	D	L1	L	d	T
N60PPX2101	1.0	3	50	4	2
N60PPX2102	1.5	4.5	50	4	2
N60PPX2103	2.0	6	50	4	2
N60PPX2104	2.5	7.5	50	4	2
N60PPX2105	3.0	9	50	4	2
N60PPX2106	3.5	10	50	4	2
N60PPX2107	4.0	12	50	4	2
N60PPX2108	4.5	13	50	6	2
N60PPX2109	5.0	13	50	6	2
N60PPX2110	5.5	15	50	6	2
N60PPX2111	6.0	15	50	6	2
N60PPX2112	7.0	20	60	8	2
N60PPX2113	8.0	20	60	8	2
N60PPX2114	9.0	25	75	10	2
N60PPX2115	10.0	25	75	10	2
N60PPX2116	11.0	30	75	12	2
N60PPX2117	12.0	30	75	12	2
N60PPX2118	14.0	40	100	14	2
N60PPX2119	15.0	42	100	16	2
N60PPX2120	16.0	45	100	16	2
N60PPX2121	17.0	45	100	18	2
N60PPX2122	18.0	45	100	18	2
N60PPX2123	20.0	48	100	20	2
N60PPX2124	3.0	9	50	3	2
N60PPX2125	5.0	15	50	5	2

Long shank tungsten steel 2flutes flat milling cutter

钨钢二刃长柄平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 45-60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛，HRC45-60均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm) Tolerance(mm)

D≤5.5 +0~-0.015

D>5.5 +0~-0.020

Code No.	D	L1	L	d	T
N60PPX2126	1.0	4	50	6	2
N60PPX2127	1.0	4	75	4	2
N60PPX2128	1.0	4	75	6	2
N60PPX2129	1.0	4	100	4	2
N60PPX2130	1.0	4	100	6	2
N60PPX2131	1.5	4.5	50	6	2
N60PPX2132	1.5	6	75	4	2
N60PPX2133	1.5	6	75	6	2
N60PPX2134	1.5	6	100	4	2
N60PPX2135	1.5	6	100	6	2
N60PPX2136	2.0	6	50	6	2
N60PPX2137	2.0	8	75	4	2
N60PPX2138	2.0	8	100	6	2
N60PPX2139	2.0	8	100	4	2
N60PPX2140	2.0	8	100	6	2
N60PPX2141	2.5	7.5	50	6	2
N60PPX2142	2.5	10	75	4	2
N60PPX2143	2.5	10	75	6	2
N60PPX2144	2.5	10	100	4	2
N60PPX2145	2.5	10	100	6	2
N60PPX2146	3.0	12	75	3	2
N60PPX2147	3.0	12	100	3	2
N60PPX2148	3.0	9	50	6	2
N60PPX2149	3.0	12	75	4	2
N60PPX2150	3.0	12	75	6	2
N60PPX2151	3.0	12	100	4	2
N60PPX2152	3.0	12	100	6	2
N60PPX2153	3.5	10	50	6	2
N60PPX2154	4.0	12	50	6	2
N60PPX2155	4.0	16	75	4	2
N60PPX2156	4.0	16	75	6	2
N60PPX2157	4.0	16	100	4	2
N60PPX2158	4.0	16	100	6	2
N60PPX2159	5.0	18	75	5	2
N60PPX2160	5.0	18	100	5	2
N60PPX2161	5.0	18	75	6	2

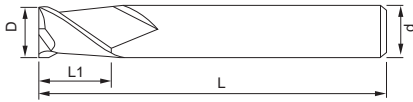
Long shank tungsten steel 2flutes flat milling cutter

钨钢二刃长柄平铣刀

Code No.	D	L1	L	d	T
N60PPX2162	5.0	18	100	6	2
N60PPX2163	6.0	22	75	6	2
N60PPX2164	6.0	22	100	6	2
N60PPX2165	6.0	25	150	6	2
N60PPX2166	8.0	25	75	8	2
N60PPX2167	8.0	30	100	8	2
N60PPX2168	8.0	35	150	8	2
N60PPX2169	8.0	40	200	8	2
N60PPX2170	10.0	30	100	10	2
N60PPX2171	10.0	40	150	10	2
N60PPX2172	10.0	45	200	10	2
N60PPX2173	12.0	35	100	12	2
N60PPX2174	12.0	45	150	12	2
N60PPX2175	12.0	45	200	12	2
N60PPX2176	14.0	45	150	14	2
N60PPX2177	14.0	50	200	14	2
N60PPX2178	16.0	50	150	16	2
N60PPX2179	16.0	55	200	16	2
N60PPX2180	18.0	55	150	18	2
N60PPX2181	20.0	55	150	20	2
N60PPX2182	20.0	55	200	20	2

Tungsten steel 2flutes long flat milling cutter

钨钢二刃长刃平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC 45-60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛, HRC45-60均可加工, 属于通用型材料加工, 如钢、铸铁、不锈钢、钛合金和其它非铁金属;

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm) Tolerance(mm)

D≤5.5 +0~-0.015

D>5.5 +0~-0.020

Code No.	D	L1	L	d	T
N60PPX2183	1.0	6	50	4	2
N60PPX2184	1.0	6	50	6	2
N60PPX2185	1.0	8	50	4	2
N60PPX2186	1.0	8	50	6	2
N60PPX2187	1.0	10	50	4	2
N60PPX2188	1.0	10	50	6	2
N60PPX2189	1.5	7	50	5	2
N60PPX2190	1.5	7	50	6	2
N60PPX2191	1.5	9	50	4	2
N60PPX2192	1.5	9	50	6	2
N60PPX2193	1.5	11	50	4	2
N60PPX2194	1.5	11	50	6	2
N60PPX2195	2.0	10	50	4	2
N60PPX2196	2.0	10	50	6	2
N60PPX2197	2.0	13	50	4	2
N60PPX2198	2.0	13	50	6	2
N60PPX2199	2.0	16	50	4	2
N60PPX2200	2.0	16	50	6	2
N60PPX2201	2.5	10	50	4	2
N60PPX2202	2.5	10	50	6	2
N60PPX2203	2.5	14	50	4	2
N60PPX2204	2.5	14	50	6	2
N60PPX2205	2.5	18	50	4	2
N60PPX2206	2.5	18	50	6	2
N60PPX2207	3.0	12	50	4	2
N60PPX2208	3.0	12	50	6	2
N60PPX2209	3.0	16	50	4	2
N60PPX2210	3.0	16	50	6	2
N60PPX2211	3.0	20	50	4	2
N60PPX2212	3.0	20	50	6	2
N60PPX2213	4.0	20	75	4	2
N60PPX2214	4.0	25	100	4	2
N60PPX2215	5.0	23	75	6	2
N60PPX2216	5.0	25	100	6	2
N60PPX2217	6.0	35	100	6	2
N60PPX2218	6.0	40	100	6	2

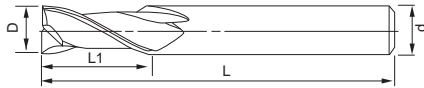
Tungsten steel 2flutes long flat milling cutter

钨钢二刃长刃平铣刀

Code No.	D	L1	L	d	T
N60PPX2219	6.0	40	150	6	2
N60PPX2220	8.0	35	100	8	2
N60PPX2221	8.0	40	100	8	2
N60PPX2222	8.0	40	150	8	2
N60PPX2223	10.0	40	100	10	2
N60PPX2224	10.0	45	100	10	2
N60PPX2225	10.0	45	150	10	2
N60PPX2226	12.0	45	100	12	2
N60PPX2227	12.0	50	100	12	2
N60PPX2228	12.0	50	150	12	2
N60PPX2229	14.0	65	150	14	2
N60PPX2230	14.0	75	150	14	2
N60PPX2231	16.0	65	150	16	2
N60PPX2232	16.0	75	150	16	2
N60PPX2233	20.0	65	150	20	2
N60PPX2234	20.0	75	150	20	2

Tungsten steel 3flutes flat milling cutter

钨钢三刃标准平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 45-60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛，HRC45-60均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm) Tolerance(mm)

D≤5.5 +0~-0.015

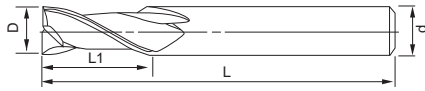
D>5.5 +0~-0.020

Code No.	D	L1	L	d	T
N60PPX3101	1.0	3	50	4	3
N60PPX3102	1.5	4.5	50	4	3
N60PPX3103	2.0	6	50	4	3
N60PPX3104	2.5	7.5	50	4	3
N60PPX3105	3.0	9	50	4	3
N60PPX3106	4.0	12	50	4	3
N60PPX3107	5.0	15	50	6	3
N60PPX3108	6.0	18	50	6	3
N60PPX3109	8.0	25	60	8	3
N60PPX3110	10.0	30	75	10	3
N60PPX3111	12.0	32	75	12	3
N60PPX3112	14.0	40	100	14	3
N60PPX3113	16.0	45	100	16	3
N60PPX3114	18.0	45	100	18	3
N60PPX3115	20.0	48	100	20	3
N60PPX3116	3.0	9	50	3	3
N60PPX3117	5.0	15	50	5	3
N60PPX3118	4.0	16	75	4	3
N60PPX3119	4.0	16	100	4	3
N60PPX3120	5.0	18	75	6	3
N60PPX3121	5.0	18	100	6	3
N60PPX3122	6.0	22	75	6	3
N60PPX3123	6.0	22	100	6	3
N60PPX3124	6.0	25	150	6	3
N60PPX3125	8.0	25	75	8	3
N60PPX3126	8.0	30	100	8	3
N60PPX3127	8.0	35	150	8	3
N60PPX3128	10.0	30	100	10	3
N60PPX3129	10.0	40	150	10	3
N60PPX3130	12.0	35	100	12	3
N60PPX3131	12.0	45	150	12	3
N60PPX3132	14.0	45	150	14	3
N60PPX3133	16.0	50	150	16	3
N60PPX3134	20.0	55	150	20	3



Long shank tungsten steel 3flutes flat milling cutter

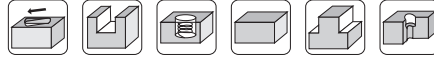
钨钢三刃长柄平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 45-60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛，HRC45-60均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

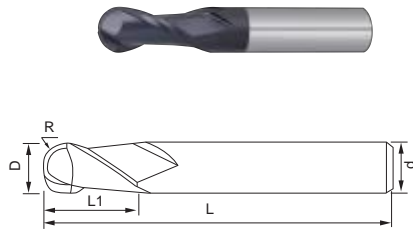
Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N60PPX3135	4.0	12	50	6	3
N60PPX3136	4.0	16	75	4	3
N60PPX3137	4.0	16	75	6	3
N60PPX3138	4.0	16	100	4	3
N60PPX3139	4.0	16	100	6	3
N60PPX3140	5.0	18	75	5	3
N60PPX3141	5.0	18	100	5	3
N60PPX3142	5.0	18	75	6	3
N60PPX3143	5.0	18	100	6	3
N60PPX3144	6.0	22	75	6	3
N60PPX3145	6.0	22	100	6	3
N60PPX3146	6.0	25	150	6	3
N60PPX3147	8.0	25	75	8	3
N60PPX3148	8.0	30	100	8	3
N60PPX3149	8.0	35	150	8	3
N60PPX3150	8.0	40	200	8	3
N60PPX3151	10.0	30	100	10	3
N60PPX3152	10.0	40	150	10	3
N60PPX3153	10.0	45	200	10	3
N60PPX3154	12.0	35	100	12	3
N60PPX3155	12.0	45	150	12	3
N60PPX3156	12.0	45	200	12	3
N60PPX3157	14.0	45	150	14	3
N60PPX3158	14.0	50	200	14	3
N60PPX3159	16.0	50	150	16	3
N60PPX3160	16.0	55	200	16	3
N60PPX3161	18.0	55	150	18	3
N60PPX3162	20.0	55	150	20	3

Tungsten steel 2flutes ballnose milling cutter

钨钢二刃标准球铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工，加工材料硬度HRC45-60；

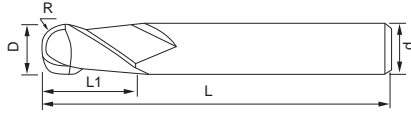
The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨，产品精度较高；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N60QPX2101	1.0	0.50R	2	50	4	2
N60QPX2102	1.5	0.75R	3	50	4	2
N60QPX2103	2.0	1.00R	4	50	4	2
N60QPX2104	2.5	1.25R	5	50	4	2
N60QPX2105	3.0	1.50R	6	50	4	2
N60QPX2106	3.5	1.75R	7	50	4	2
N60QPX2107	4.0	2.00R	8	50	4	2
N60QPX2108	5.0	2.50R	10	50	6	2
N60QPX2109	6.0	3.00R	12	50	6	2
N60QPX2110	7.0	3.50R	14	60	8	2
N60QPX2111	8.0	4.00R	16	60	8	2
N60QPX2112	9.0	4.50R	18	75	10	2
N60QPX2113	10.0	5.00R	20	75	10	2
N60QPX2114	11.0	5.50R	22	75	12	2
N60QPX2115	12.0	6.00R	24	75	12	2
N60QPX2116	13.0	6.50R	26	100	14	2
N60QPX2117	14.0	7.00R	28	100	14	2
N60QPX2118	15.0	7.50R	30	100	16	2
N60QPX2119	16.0	8.00R	32	100	16	2
N60QPX2120	17.0	8.50R	34	100	18	2
N60QPX2121	18.0	9.00R	35	100	18	2
N60QPX2122	20.0	10.00R	36	100	20	2

Tungsten steel 2flutes long ballnose milling cutter

钨钢二刃加长球铣刀

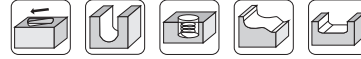


Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工，加工材料硬度HRC45-60；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨，产品精度较高；

Code No.	D	R	L1	L	d	T
N60QPX2123	1.0	0.50R	2	50	6	2
N60QPX2124	1.0	0.50R	2	75	4	2
N60QPX2125	1.0	0.50R	2	75	6	2
N60QPX2126	1.0	0.50R	2	100	4	2
N60QPX2127	1.0	0.50R	2	100	6	2
N60QPX2128	1.5	0.75R	3	50	6	2
N60QPX2129	1.5	0.75R	3	75	4	2
N60QPX2130	1.5	0.75R	3	75	6	2
N60QPX2131	1.5	0.75R	3	100	4	2
N60QPX2132	1.5	0.75R	3	100	6	2
N60QPX2133	2.0	1.00R	4	50	6	2
N60QPX2134	2.0	1.00R	4	75	4	2
N60QPX2135	2.0	1.00R	4	75	6	2
N60QPX2136	2.0	1.00R	4	100	4	2
N60QPX2137	2.0	1.00R	4	100	6	2
N60QPX2138	2.5	1.25R	5	50	6	2
N60QPX2139	2.5	1.25R	5	75	4	2
N60QPX2140	2.5	1.25R	5	75	6	2
N60QPX2141	2.5	1.25R	5	100	4	2
N60QPX2142	2.5	1.25R	5	100	6	2
N60QPX2143	3.0	1.50R	6	50	6	2
N60QPX2144	3.0	1.50R	6	75	4	2
N60QPX2145	3.0	1.50R	6	75	6	2
N60QPX2146	3.0	1.50R	6	100	4	2
N60QPX2147	3.0	1.50R	6	100	6	2
N60QPX2148	3.5	1.75R	7	50	6	2
N60QPX2149	3.5	1.75R	7	75	4	2
N60QPX2150	3.5	1.75R	7	75	6	2
N60QPX2151	3.5	1.75R	7	100	4	2
N60QPX2152	3.5	1.75R	7	100	6	2
N60QPX2153	4.0	2.00R	8	50	6	2
N60QPX2154	4.0	2.00R	10	75	4	2
N60QPX2155	4.0	2.00R	10	75	6	2
N60QPX2156	4.0	2.00R	10	100	4	2
N60QPX2157	4.0	2.00R	10	100	6	2
N60QPX2158	5.0	2.50R	12	75	6	2

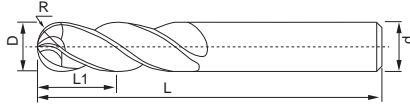
Tungsten steel 2flutes ballnose milling cutter

钨钢二刃加长球铣刀

Code No.	D	R	L1	L	d	T
N60QPX2159	5.0	2.50R	12	100	6	2
N60QPX2160	6.0	3.00R	14	75	6	2
N60QPX2161	6.0	3.00R	16	100	6	2
N60QPX2162	6.0	3.00R	20	150	6	2
N60QPX2163	8.0	4.00R	18	75	8	2
N60QPX2164	8.0	4.00R	20	100	8	2
N60QPX2165	8.0	4.00R	22	150	8	2
N60QPX2166	8.0	4.00R	25	200	8	2
N60QPX2167	10.0	5.00R	24	100	10	2
N60QPX2168	10.0	5.00R	26	150	10	2
N60QPX2169	10.0	5.00R	30	200	10	2
N60QPX2170	12.0	6.00R	26	100	12	2
N60QPX2171	12.0	6.00R	30	150	12	2
N60QPX2172	12.0	6.00R	35	200	12	2
N60QPX2173	14.0	7.00R	34	150	14	2
N60QPX2174	16.0	8.00R	36	150	16	2
N60QPX2175	20.0	10.00R	40	150	20	2

Tungsten steel 4flutes ballnose milling cutter

钨钢四刃标准球铣刀

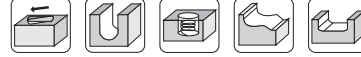


Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

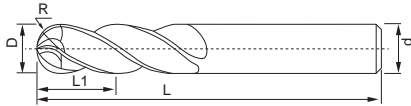
Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工，加工材料硬度HRC45-60；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨，产品精度较高；

Code No.	D	R	L1	L	d	T
N60QPX4101	1.0	0.50R	2	50	4	4
N60QPX4102	1.5	0.75R	3	50	4	4
N60QPX4103	2.0	1.00R	4	50	4	4
N60QPX4104	2.5	1.25R	5	50	4	4
N60QPX4105	3.0	1.50R	6	50	4	4
N60QPX4106	3.5	1.75R	7	50	4	4
N60QPX4107	4.0	2.00R	8	50	4	4
N60QPX4108	5.0	2.50R	10	50	6	4
N60QPX4109	6.0	3.00R	12	50	6	4
N60QPX4110	8.0	4.00R	16	60	8	4
N60QPX4111	10.0	5.00R	20	75	10	4
N60QPX4112	12.0	6.00R	24	75	12	4
N60QPX4113	14.0	7.00R	28	100	14	4
N60QPX4114	16.0	8.00R	32	100	16	4
N60QPX4115	20.0	10.00R	36	100	20	4
N60QPX4116	4.0	2.00R	10	75	4	4
N60QPX4117	4.0	2.00R	10	100	4	4
N60QPX4118	5.0	2.50R	12	75	6	4
N60QPX4119	5.0	2.50R	12	100	6	4
N60QPX4120	6.0	3.00R	14	75	6	4
N60QPX4121	6.0	3.00R	16	100	6	4
N60QPX4122	6.0	3.00R	20	150	6	4
N60QPX4123	8.0	4.00R	18	75	6	4
N60QPX4124	8.0	4.00R	20	100	8	4
N60QPX4125	8.0	4.00R	22	150	8	4
N60QPX4126	10.0	5.00R	24	100	10	4
N60QPX4127	10.0	5.00R	26	150	10	4
N60QPX4128	12.0	6.00R	26	100	12	4
N60QPX4129	12.0	6.00R	30	150	12	4
N60QPX4130	14.0	7.00R	34	150	14	4
N60QPX4131	16.0	8.00R	36	150	16	4
N60QPX4132	20.0	10.00R	40	150	20	4

Tungsten steel 4flutes long ballnose milling cutter

钨钢四刃加长球铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工, 加工材料硬度HRC45-60;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨, 产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N60QPX4133	1.0	0.50R	2	50	6	4
N60QPX4134	1.0	0.50R	2	75	4	4
N60QPX4135	1.0	0.50R	2	75	6	4
N60QPX4136	1.0	0.50R	2	100	4	4
N60QPX4137	1.0	0.50R	2	100	6	4
N60QPX4138	1.5	0.75R	3	50	6	4
N60QPX4139	1.5	0.75R	3	75	4	4
N60QPX4140	1.5	0.75R	3	75	6	4
N60QPX4141	1.5	0.75R	3	100	4	4
N60QPX4142	1.5	0.75R	3	100	6	4
N60QPX4143	2.0	1.00R	4	50	6	4
N60QPX4144	2.0	1.00R	4	75	4	4
N60QPX4145	2.0	1.00R	4	75	6	4
N60QPX4146	2.0	1.00R	4	100	4	4
N60QPX4147	2.0	1.00R	4	100	6	4
N60QPX4148	2.5	1.25R	5	50	6	4
N60QPX4149	2.5	1.25R	5	75	4	4
N60QPX4150	2.5	1.25R	5	75	6	4
N60QPX4151	2.5	1.25R	5	100	4	4
N60QPX4152	2.5	1.25R	5	100	6	4
N60QPX4153	3.0	1.50R	6	50	6	4
N60QPX4154	3.0	1.50R	6	75	4	4
N60QPX4155	3.0	1.50R	6	75	6	4
N60QPX4156	3.0	1.50R	6	100	4	4
N60QPX4157	3.0	1.50R	6	100	6	4
N60QPX4158	3.5	1.75R	7	50	6	4
N60QPX4159	3.5	1.75R	7	75	4	4
N60QPX4160	3.5	1.75R	7	75	6	4
N60QPX4161	3.5	1.75R	7	100	4	4
N60QPX4162	3.5	1.75R	7	100	6	4
N60QPX4163	4.0	2.00R	8	50	6	4
N60QPX4164	4.0	2.00R	10	75	4	4
N60QPX4165	4.0	2.00R	10	75	6	4
N60QPX4166	4.0	2.00R	10	100	4	4
N60QPX4167	4.0	2.00R	10	100	6	4
N60QPX4168	5.0	2.50R	12	75	6	4

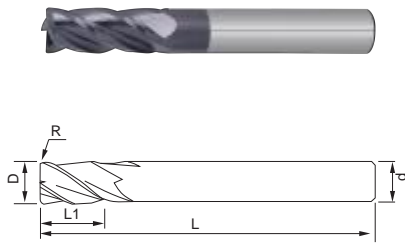
Tungsten steel 4flutes long ballnose milling cutter

钨钢四刃加长球铣刀

Code No.	D	R	L1	L	d	T
N60QPX4169	5.0	2.50R	12	100	6	4
N60QPX4170	6.0	3.00R	14	75	6	4
N60QPX4171	6.0	3.00R	16	100	6	4
N60QPX4172	6.0	3.00R	20	150	6	4
N60QPX4173	8.0	4.00R	18	75	8	4
N60QPX4174	8.0	4.00R	20	100	8	4
N60QPX4175	8.0	4.00R	22	150	8	4
N60QPX4176	8.0	4.00R	25	200	8	4
N60QPX4177	10.0	5.00R	24	100	10	4
N60QPX4178	10.0	5.00R	26	150	10	4
N60QPX4179	10.0	5.00R	30	200	10	4
N60QPX4180	12.0	6.00R	26	100	12	4
N60QPX4181	12.0	6.00R	30	150	12	4
N60QPX4182	12.0	6.00R	35	200	12	4
N60QPX4183	14.0	7.00R	34	150	14	4
N60QPX4184	16.0	8.00R	36	150	16	4
N60QPX4185	20.0	10.00R	40	150	20	4

Tungsten steel 4flutes corner radius milling cutter

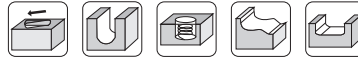
钨钢四刃标准圆鼻铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工, 加工材料硬度HRC45-60;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨, 产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N60YPX4101	1.0	0.10R	3	50	4	4
N60YPX4102	1.0	0.20R	3	50	4	4
N60YPX4103	1.5	0.10R	4.5	50	4	4
N60YPX4104	1.5	0.20R	4.5	50	4	4
N60YPX4105	1.5	0.50R	4.5	50	4	4
N60YPX4106	2.0	0.10R	6	50	4	4
N60YPX4107	2.0	0.20R	6	50	4	4
N60YPX4108	2.0	0.30R	6	50	4	4
N60YPX4109	2.0	0.50R	6	50	4	4
N60YPX4110	2.5	0.10R	7.5	50	4	4
N60YPX4111	2.5	0.20R	7.5	50	4	4
N60YPX4112	2.5	0.30R	7.5	50	4	4
N60YPX4113	2.5	0.50R	7.5	50	4	4
N60YPX4114	3.0	0.20R	9	50	4	4
N60YPX4115	3.0	0.30R	9	50	4	4
N60YPX4116	3.0	0.50R	9	50	4	4
N60YPX4117	3.0	1.00R	9	50	4	4
N60YPX4118	4.0	0.20R	12	50	4	4
N60YPX4119	4.0	0.30R	12	50	4	4
N60YPX4120	4.0	0.50R	12	50	4	4
N60YPX4121	4.0	1.00R	12	50	4	4
N60YPX4122	4.0	1.50R	12	50	4	4
N60YPX4123	5.0	0.20R	13	50	6	4
N60YPX4124	5.0	0.50R	13	50	6	4
N60YPX4125	5.0	1.00R	13	50	6	4
N60YPX4126	6.0	0.20R	15	50	6	4
N60YPX4127	6.0	0.30R	15	50	6	4
N60YPX4128	6.0	0.50R	15	50	6	4
N60YPX4129	6.0	1.00R	15	50	6	4
N60YPX4130	6.0	1.50R	15	50	6	4
N60YPX4131	6.0	2.00R	15	50	6	4
N60YPX4132	8.0	0.20R	20	60	8	4
N60YPX4133	8.0	0.30R	20	60	8	4
N60YPX4134	8.0	0.50R	20	60	8	4
N60YPX4135	8.0	1.00R	20	60	8	4
N60YPX4136	8.0	1.50R	20	60	8	4

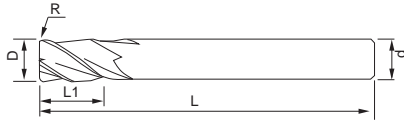
Tungsten steel 4flutes corner radius milling cutter

钨钢四刃标准圆鼻铣刀

Code No.	D	R	L1	L	d	T
N60YPX4137	8.0	2.00R	20	60	8	4
N60YPX4138	10.0	0.20R	25	75	10	4
N60YPX4139	10.0	0.30R	25	75	10	4
N60YPX4140	10.0	0.50R	25	75	10	4
N60YPX4141	10.0	1.00R	25	75	10	4
N60YPX4142	10.0	1.50R	25	75	10	4
N60YPX4143	10.0	2.00R	25	75	10	4
N60YPX4144	12.0	0.50R	30	75	12	4
N60YPX4145	12.0	1.00R	30	75	12	4
N60YPX4146	12.0	1.50R	30	75	12	4
N60YPX4147	12.0	2.00R	30	75	12	4
N60YPX4148	14.0	0.50R	40	100	14	4
N60YPX4149	14.0	1.00R	40	100	14	4
N60YPX4150	16.0	0.50R	45	100	16	4
N60YPX4151	16.0	1.00R	45	100	16	4
N60YPX4152	20.0	0.50R	45	100	20	4
N60YPX4153	20.0	1.00R	45	100	20	4

Tungsten steel 4flutes long corner radius milling cutter

钨钢四刃加长圆鼻铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工，加工材料硬度HRC45-60；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨，产品精度较高；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N60YPX4154	1.0	0.20R	4	75	4	4
N60YPX4155	1.0	0.20R	4	100	4	4
N60YPX4156	1.5	0.20R	6	75	4	4
N60YPX4157	1.5	0.20R	6	100	4	4
N60YPX4158	2.0	0.20R	8	75	4	4
N60YPX4159	2.0	0.20R	8	100	4	4
N60YPX4160	3.0	0.20R	12	75	4	4
N60YPX4161	3.0	0.20R	12	100	4	4
N60YPX4162	4.0	0.20R	16	75	4	4
N60YPX4163	4.0	0.20R	16	100	4	4
N60YPX4164	4.0	0.50R	16	75	4	4
N60YPX4165	4.0	0.50R	16	100	4	4
N60YPX4166	5.0	0.20R	18	75	6	4
N60YPX4167	5.0	0.20R	18	100	6	4
N60YPX4168	5.0	0.50R	18	75	6	4
N60YPX4169	5.0	0.50R	18	100	6	4
N60YPX4170	6.0	0.20R	20	75	6	4
N60YPX4171	6.0	0.20R	20	100	6	4
N60YPX4172	6.0	0.20R	25	150	6	4
N60YPX4173	6.0	0.50R	20	75	6	4
N60YPX4174	6.0	0.50R	20	100	6	4
N60YPX4175	6.0	0.50R	25	150	6	4
N60YPX4176	6.0	1.00R	20	75	6	4
N60YPX4177	6.0	1.00R	20	100	6	4
N60YPX4178	6.0	1.00R	25	150	6	4
N60YPX4179	8.0	0.20R	25	75	8	4
N60YPX4180	8.0	0.20R	30	100	8	4
N60YPX4181	8.0	0.20R	35	150	8	4
N60YPX4182	8.0	0.50R	25	75	8	4
N60YPX4183	8.0	0.50R	30	100	8	4
N60YPX4184	8.0	0.50R	35	150	8	4
N60YPX4185	8.0	1.00R	25	75	8	4
N60YPX4186	8.0	1.00R	30	100	8	4
N60YPX4187	8.0	1.00R	35	150	8	4
N60YPX4188	10.0	0.20R	30	100	10	4
N60YPX4189	10.0	0.20R	35	150	10	4

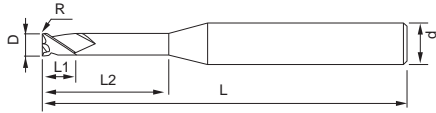
Tungsten steel 4flutes long corner radius milling cutter

钨钢四刃加长圆鼻铣刀

Code No.	D	R	L1	L	d	T
N60YPX4190	10.0	0.50R	30	100	10	4
N60YPX4191	10.0	0.50R	35	150	10	4
N60YPX4192	10.0	0.50R	30	100	10	4
N60YPX4193	10.0	1.00R	35	150	10	4
N60YPX4194	12.0	0.50R	35	100	12	4
N60YPX4195	12.0	0.50R	40	150	12	4
N60YPX4196	12.0	1.00R	35	100	12	4
N60YPX4197	12.0	1.00R	40	150	12	4
N60YPX4198	16.0	0.50R	55	150	16	4
N60YPX4199	16.0	1.00R	55	150	16	4
N60YPX4200	20.0	0.50R	55	150	20	4
N60YPX4201	20.0	1.00R	55	150	20	4

Tungsten steel 4flutes long neck deep groove corner radius milling cutter

钨钢四刃长颈深沟圆鼻铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工，加工材料硬度HRC45-60；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨，产品精度较高；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L2	L	d	T
N60YPX4202	1	0.20R	3	6	50	4	4
N60YPX4203	1	0.20R	3	9	50	4	4
N60YPX4204	1	0.20R	3	12	50	4	4
N60YPX4205	1.5	0.20R	4	9	50	4	4
N60YPX4206	1.5	0.20R	4	12	50	4	4
N60YPX4207	1.5	0.20R	4	15	50	4	4
N60YPX4208	2	0.20R	6	9	50	4	4
N60YPX4209	2	0.20R	6	12	50	4	4
N60YPX4210	2	0.20R	6	15	50	4	4
N60YPX4211	2.5	0.20R	7	12	50	4	4
N60YPX4212	2.5	0.20R	7	16	50	4	4
N60YPX4213	3	0.20R	9	15	50	4	4
N60YPX4214	3	0.20R	9	20	50	4	4
N60YPX4215	4	0.20R	10	20	50	4	4
N60YPX4216	4	0.20R	10	25	75	4	4
N60YPX4217	4	0.50R	10	20	50	4	4
N60YPX4218	4	0.50R	10	25	75	4	4
N60YPX4219	5	0.20R	12	20	50	6	4
N60YPX4220	5	0.20R	12	25	75	6	4
N60YPX4221	5	0.50R	12	20	50	6	4
N60YPX4222	5	0.50R	12	25	75	6	4
N60YPX4223	6	0.20R	12	30	75	6	4
N60YPX4224	6	0.20R	12	30	100	6	4
N60YPX4225	6	0.50R	12	30	75	6	4
N60YPX4226	6	0.50R	12	30	100	6	4
N60YPX4227	6	1.00R	12	30	75	6	4
N60YPX4228	6	1.00R	12	30	100	6	4
N60YPX4229	8	0.50R	16	40	75	8	4
N60YPX4230	8	0.50R	16	40	100	8	4
N60YPX4231	8	0.50R	16	40	150	8	4
N60YPX4232	8	1.00R	16	40	75	8	4
N60YPX4233	8	1.00R	16	40	100	8	4
N60YPX4234	8	1.00R	16	40	150	8	4
N60YPX4235	10	0.50R	20	50	100	10	4
N60YPX4236	10	0.50R	20	50	150	10	4
N60YPX4237	10	1.00R	20	50	100	10	4

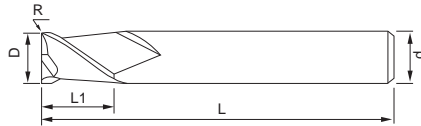
Tungsten steel 4flutes long neck deep groove corner radius milling cutter

钨钢四刃长颈深沟圆鼻铣刀

Code No.	D	R	L1	L2	L	d	T
N60YPX4238	10	1.00R	20	50	150	10	4
N60YPX4239	12	0.50R	24	50	100	12	4
N60YPX4240	12	0.50R	24	50	150	12	4
N60YPX4241	12	1.00R	24	50	100	12	4
N60YPX4242	12	1.00R	24	50	150	12	4
N60YPX4243	16	0.50R	32	50	150	16	4
N60YPX4244	16	1.00R	32	50	150	16	4
N60YPX4245	20	0.50R	40	60	150	20	4
N60YPX4246	20	1.00R	40	60	150	20	4

Tungsten steel 2flutes corner radiuse milling cutter

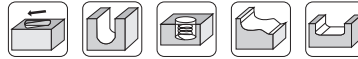
钨钢二刃标准圆鼻铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工, 加工材料硬度HRC45-60;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨, 产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N60YPX2101	1.0	0.10R	3	50	4	4
N60YPX2102	1.0	0.20R	3	50	4	4
N60YPX2103	1.5	0.10R	4.5	50	4	4
N60YPX2104	1.5	0.20R	4.5	50	4	4
N60YPX2105	1.5	0.50R	4.5	50	4	4
N60YPX2106	2.0	0.10R	6	50	4	4
N60YPX2107	2.0	0.20R	6	50	4	4
N60YPX2108	2.0	0.30R	6	50	4	4
N60YPX2109	2.0	0.50R	6	50	4	4
N60YPX2110	2.5	0.10R	7.5	50	4	4
N60YPX2111	2.5	0.20R	7.5	50	4	4
N60YPX2112	2.5	0.30R	7.5	50	4	4
N60YPX2113	2.5	0.50R	7.5	50	4	4
N60YPX2114	3.0	0.20R	9	50	4	4
N60YPX2115	3.0	0.30R	9	50	4	4
N60YPX2116	3.0	0.50R	9	50	4	4
N60YPX2117	3.0	1.00R	9	50	4	4
N60YPX2118	4.0	0.20R	12	50	4	4
N60YPX2119	4.0	0.30R	12	50	4	4
N60YPX2120	4.0	0.50R	12	50	4	4
N60YPX2121	4.0	1.00R	12	50	4	4
N60YPX2122	4.0	1.50R	12	50	4	4
N60YPX2123	5.0	0.20R	13	50	6	4
N60YPX2124	5.0	0.50R	13	50	6	4
N60YPX2125	5.0	1.00R	13	50	6	4
N60YPX2126	6.0	0.20R	15	50	6	4
N60YPX2127	6.0	0.30R	15	50	6	4
N60YPX2128	6.0	0.50R	15	50	6	4
N60YPX2129	6.0	1.00R	15	50	6	4
N60YPX2130	6.0	1.50R	15	50	6	4
N60YPX2131	6.0	2.00R	15	50	6	4
N60YPX2132	8.0	0.20R	20	60	8	4
N60YPX2133	8.0	0.30R	20	60	8	4
N60YPX2134	8.0	0.50R	20	60	8	4
N60YPX2135	8.0	1.00R	20	60	8	4
N60YPX2136	8.0	1.50R	20	60	8	4

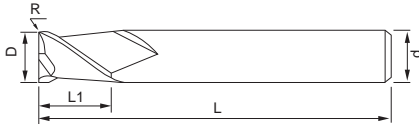
Tungsten steel 2flutes corner radius milling cutter

钨钢二刃标准圆鼻铣刀

Code No.	D	R	L1	L	d	T
N60YPX2137	8.0	2.00R	20	60	8	2
N60YPX2138	10.0	0.20R	25	75	10	2
N60YPX2139	10.0	0.30R	25	75	10	2
N60YPX2140	10.0	0.50R	25	75	10	2
N60YPX2141	10.0	1.00R	25	75	10	2
N60YPX2142	10.0	1.50R	25	75	10	2
N60YPX2143	10.0	2.00R	25	75	10	2
N60YPX2144	12.0	0.50R	30	75	12	2
N60YPX2145	12.0	1.00R	30	75	12	2
N60YPX2146	12.0	1.50R	30	75	12	2
N60YPX2147	12.0	2.00R	30	75	12	2
N60YPX2148	14.0	0.50R	40	100	14	2
N60YPX2149	14.0	1.00R	40	100	14	2
N60YPX2150	16.0	0.50R	45	100	16	2
N60YPX2151	16.0	1.00R	45	100	16	2
N60YPX2152	20.0	0.50R	45	100	20	2
N60YPX2153	20.0	1.00R	45	100	20	2

Tungsten steel 2flutes long corner radius milling cutter

钨钢二刃加长圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工, 加工材料硬度HRC45-60;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨, 产品精度较高;

Code No.	D	R	L1	L	d	T
N60YPX2154	1.0	0.20R	4	75	4	2
N60YPX2155	1.0	0.20R	4	100	4	2
N60YPX2156	1.5	0.20R	6	75	4	2
N60YPX2157	1.5	0.20R	6	100	4	2
N60YPX2158	2.0	0.20R	8	75	4	2
N60YPX2159	2.0	0.20R	8	100	4	2
N60YPX2160	3.0	0.20R	12	75	4	2
N60YPX2161	3.0	0.20R	12	100	4	2
N60YPX2162	4.0	0.20R	16	75	4	2
N60YPX2163	4.0	0.20R	16	100	4	2
N60YPX2164	4.0	0.50R	16	75	4	2
N60YPX2165	4.0	0.50R	16	100	4	2
N60YPX2166	5.0	0.20R	18	75	6	2
N60YPX2167	5.0	0.20R	18	100	6	2
N60YPX2168	5.0	0.50R	18	75	6	2
N60YPX2169	5.0	0.50R	18	100	6	2
N60YPX2170	6.0	0.20R	20	75	6	2
N60YPX2171	6.0	0.20R	20	100	6	2
N60YPX2172	6.0	0.20R	25	150	6	2
N60YPX2173	6.0	0.50R	20	75	6	2
N60YPX2174	6.0	0.50R	20	100	6	2
N60YPX2175	6.0	0.50R	25	150	6	2
N60YPX2176	6.0	1.00R	20	75	6	2
N60YPX2177	6.0	1.00R	20	100	6	2
N60YPX2178	6.0	1.00R	25	150	6	2
N60YPX2179	8.0	0.20R	25	75	8	2
N60YPX2180	8.0	0.20R	30	100	8	2
N60YPX2181	8.0	0.20R	35	150	8	2
N60YPX2182	8.0	0.50R	25	75	8	2
N60YPX2183	8.0	0.50R	30	100	8	2
N60YPX2184	8.0	0.50R	35	150	8	2
N60YPX2185	8.0	1.00R	25	75	8	2
N60YPX2186	8.0	1.00R	30	100	8	2
N60YPX2187	8.0	1.00R	35	150	8	2
N60YPX2188	10.0	0.20R	30	100	10	2
N60YPX2189	10.0	0.20R	35	150	10	2

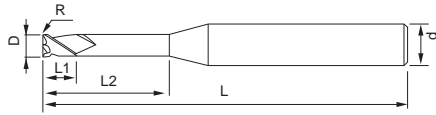
Tungsten steel 2flutes long corner radius milling cutter

钨钢二刃加长圆鼻铣刀

Code No.	D	R	L1	L	d	T
N60YPX2190	10.0	0.50R	30	100	10	2
N60YPX2191	10.0	0.50R	35	150	10	2
N60YPX2192	10.0	0.50R	30	100	10	2
N60YPX2193	10.0	1.00R	35	150	10	2
N60YPX2194	12.0	0.50R	35	100	12	2
N60YPX2195	12.0	0.50R	40	150	12	2
N60YPX2196	12.0	1.00R	35	100	12	2
N60YPX2197	12.0	1.00R	40	150	12	2
N60YPX2198	16.0	0.50R	55	150	16	2
N60YPX2199	16.0	1.00R	55	150	16	2
N60YPX2200	20.0	0.50R	55	150	20	2
N60YPX2201	20.0	1.00R	55	150	20	2

Tungsten steel 2flutes long neck deep groove corner radius milling cutter

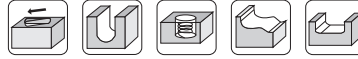
钨钢二刃长颈深沟圆鼻铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC45-60;
适合模具加工, 加工材料硬度HRC45-60;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨, 产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L2	L	d	T
N60YPX2202	1	0.20R	3	6	50	4	2
N60YPX2203	1	0.20R	3	9	50	4	2
N60YPX2204	1	0.20R	3	12	50	4	2
N60YPX2205	1.5	0.20R	4	9	50	4	2
N60YPX2206	1.5	0.20R	4	12	50	4	2
N60YPX2207	1.5	0.20R	4	15	50	4	2
N60YPX2208	2	0.20R	6	9	50	4	2
N60YPX2209	2	0.20R	6	12	50	4	2
N60YPX2210	2	0.20R	6	15	50	4	2
N60YPX2211	2.5	0.20R	7	12	50	4	2
N60YPX2212	2.5	0.20R	7	16	50	4	2
N60YPX2213	3	0.20R	9	15	50	4	2
N60YPX2214	3	0.20R	9	20	50	4	2
N60YPX2215	4	0.20R	10	20	50	4	2
N60YPX2216	4	0.20R	10	25	75	4	2
N60YPX2217	4	0.50R	10	20	50	4	2
N60YPX2218	4	0.50R	10	25	75	4	2
N60YPX2219	5	0.20R	12	20	50	6	2
N60YPX2220	5	0.20R	12	25	75	6	2
N60YPX2221	5	0.50R	12	20	50	6	2
N60YPX2222	5	0.50R	12	25	75	6	2
N60YPX2223	6	0.20R	12	30	75	6	2
N60YPX2224	6	0.20R	12	30	100	6	2
N60YPX2225	6	0.50R	12	30	75	6	2
N60YPX2226	6	0.50R	12	30	100	6	2
N60YPX2227	6	1.00R	12	30	75	6	2
N60YPX2228	6	1.00R	12	30	100	6	2
N60YPX2229	8	0.50R	16	40	75	8	2
N60YPX2230	8	0.50R	16	40	100	8	2
N60YPX2231	8	0.50R	16	40	150	8	2
N60YPX2232	8	1.00R	16	40	75	8	2
N60YPX2233	8	1.00R	16	40	100	8	2
N60YPX2234	8	1.00R	16	40	150	8	2
N60YPX2235	10	0.50R	20	50	100	10	2
N60YPX2236	10	0.50R	20	50	150	10	2
N60YPX2237	10	1.00R	20	50	100	10	2

Tungsten steel 2flutes long neck deep groove corner radius milling cutter

钨钢二刃长颈深沟圆鼻铣刀

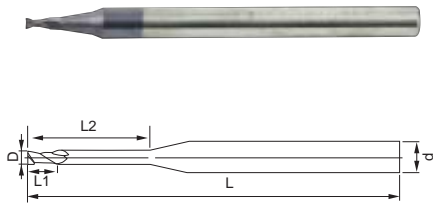
Code No.	D	R	L1	L2	L	d	T
N60YPX2238	10	1.00R	20	50	150	10	2
N60YPX2239	12	0.50R	24	50	100	12	2
N60YPX2240	12	0.50R	24	50	150	12	2
N60YPX2241	12	1.00R	24	50	100	12	2
N60YPX2242	12	1.00R	24	50	150	12	2
N60YPX2243	16	0.50R	32	50	150	16	2
N60YPX2244	16	1.00R	32	50	150	16	2
N60YPX2245	20	0.50R	40	60	150	20	2
N60YPX2246	20	1.00R	40	60	150	20	2

N600 deep groove cutter Series



Tungsten steel 2flutes flat milling cutter

钨钢二刃深沟标准平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工，特殊涂层具有优异的耐磨性，减少了摩擦系数;

It is widely used, Can be processed the materials below HRC60. It belongs to general material processing, such as steel, cast iron, and other non-ferrous metals;
应用广泛，HRC60以下材料加工，属于通用型材料加工，如钢、铸铁、和其它非铁金属;

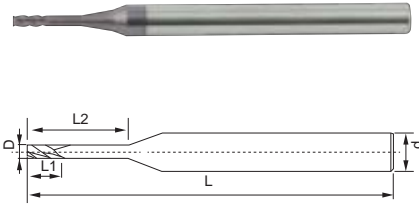
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动;

Code No.	D	L1	L2	L	d	T
N60PSX2101	1.0	3	6	50	4	2
N60PSX2102	1.0	3	6	75	4	2
N60PSX2103	1.0	3	9	50	4	2
N60PSX2104	1.0	3	9	75	4	2
N60PSX2105	1.0	3	12	50	4	2
N60PSX2106	1.0	3	12	75	4	2
N60PSX2107	1.5	4	9	50	4	2
N60PSX2108	1.5	4	9	75	4	2
N60PSX2109	1.5	4	12	50	4	2
N60PSX2110	1.5	4	12	75	4	2
N60PSX2111	1.5	4	15	50	4	2
N60PSX2112	1.5	4	15	75	4	2
N60PSX2113	2.0	6	9	50	4	2
N60PSX2114	2.0	6	9	75	4	2
N60PSX2115	2.0	6	12	50	4	2
N60PSX2116	2.0	6	12	75	4	2
N60PSX2117	2.0	6	15	50	4	2
N60PSX2118	2.0	6	15	75	4	2
N60PSX2119	2.5	7	12	50	4	2
N60PSX2120	2.5	7	12	75	4	2
N60PSX2121	2.5	7	16	50	4	2
N60PSX2122	2.5	7	16	75	4	2
N60PSX2123	3.0	9	15	50	4	2
N60PSX2124	3.0	9	15	75	4	2
N60PSX2125	3.0	9	20	50	4	2
N60PSX2126	3.0	9	20	75	4	2
N60PSX2127	4.0	10	20	50	4	2
N60PSX2128	4.0	10	20	75	4	2
N60PSX2129	4.0	10	25	75	4	2
N60PSX2130	4.0	10	20	50	4	2
N60PSX2131	4.0	10	20	75	4	2
N60PSX2132	4.0	10	25	75	4	2



Tungsten steel 4flutes deep groove corner radius milling cutter

钨钢四刃深沟标准平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC60. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛，HRC60以下材料加工，属于通用型材料加工，如钢、铸铁、和其它非铁金属；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

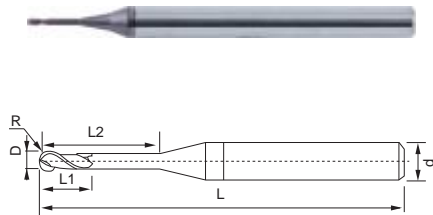
Code No.	D	L1	L2	L	d	T
N60PSX4101	1.0	3	6	50	4	4
N60PSX4102	1.0	3	6	75	4	4
N60PSX4103	1.0	3	9	50	4	4
N60PSX4104	1.0	3	9	75	4	4
N60PSX4105	1.0	3	12	50	4	4
N60PSX4106	1.0	3	12	75	4	4
N60PSX4107	1.5	4	9	50	4	4
N60PSX4108	1.5	4	9	75	4	4
N60PSX4109	1.5	4	12	50	4	4
N60PSX4110	1.5	4	12	75	4	4
N60PSX4111	1.5	4	15	50	4	4
N60PSX4112	1.5	4	15	75	4	4
N60PSX4113	2.0	6	9	50	4	4
N60PSX4114	2.0	6	9	75	4	4
N60PSX4115	2.0	6	12	50	4	4
N60PSX4116	2.0	6	12	75	4	4
N60PSX4117	2.0	6	15	50	4	4
N60PSX4118	2.0	6	15	75	4	4
N60PSX4119	2.5	7	12	50	4	4
N60PSX4120	2.5	7	12	75	4	4
N60PSX4121	2.5	7	16	50	4	4
N60PSX4122	2.5	7	16	75	4	4
N60PSX4123	3.0	9	15	50	4	4
N60PSX4124	3.0	9	15	75	4	4
N60PSX4125	3.0	9	20	50	4	4
N60PSX4126	3.0	9	20	75	4	4
N60PSX4127	4.0	10	20	50	4	4
N60PSX4128	4.0	10	20	75	4	4
N60PSX4129	4.0	10	25	75	4	4
N60PSX4130	4.0	10	20	50	4	4
N60PSX4131	4.0	10	20	75	4	4
N60PSX4132	4.0	10	25	75	4	4

N600 deep groove cutter Series



Tungsten steel 2 flutes deep hook ballnose milling cutter

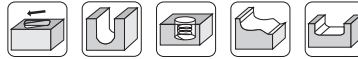
钨钢二刃深勾标准球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing, the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material is HRC60;
适合模具加工, 加工材料硬度HRC60;

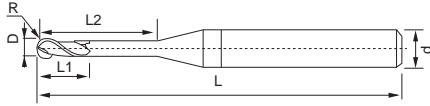
The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨, 产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L2	L	d	T
N60QSX2101	1.0	0.50	3	6	50	4	2
N60QSX2102	1.0	0.50	3	6	75	4	2
N60QSX2103	1.0	0.50	3	9	50	4	2
N60QSX2104	1.0	0.50	3	9	75	4	2
N60QSX2105	1.0	0.50	3	12	50	4	2
N60QSX2106	1.0	0.50	3	12	75	4	2
N60QSX2107	1.5	0.75	4	9	50	4	2
N60QSX2108	1.5	0.75	4	9	75	4	2
N60QSX2109	1.5	0.75	4	12	50	4	2
N60QSX2110	1.5	0.75	4	12	75	4	2
N60QSX2111	1.5	0.75	4	15	50	4	2
N60QSX2112	1.5	0.75	4	15	75	4	2
N60QSX2113	2.0	1.00	6	9	50	4	2
N60QSX2114	2.0	1.00	6	9	75	4	2
N60QSX2115	2.0	1.00	6	12	50	4	2
N60QSX2116	2.0	1.00	6	12	75	4	2
N60QSX2117	2.0	1.00	6	15	50	4	2
N60QSX2118	2.0	1.00	6	15	75	4	2
N60QSX2119	2.5	1.25	7	12	50	4	2
N60QSX2120	2.5	1.25	7	12	75	4	2
N60QSX2121	2.5	1.25	7	16	50	4	2
N60QSX2122	2.5	1.25	7	16	75	4	2
N60QSX2123	3.0	1.5	9	15	50	4	2
N60QSX2124	3.0	1.5	9	15	75	4	2
N60QSX2125	3.0	1.5	9	20	50	4	2
N60QSX2126	3.0	1.5	9	20	75	4	2
N60QSX2127	4.0	2.00	10	20	50	4	2
N60QSX2128	4.0	2.00	10	20	75	4	2
N60QSX2129	4.0	2.00	10	25	75	4	2
N60QSX2130	4.0	2.00	10	20	50	4	2
N60QSX2131	4.0	2.00	10	20	75	4	2
N60QSX2132	4.0	2.00	10	25	75	4	2

Tungsten steel 4 flutes deep hook ballnose milling cutter

钨钢四刃深沟标准球铣刀

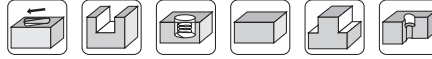


Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non - ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material is HRC60;
适合模具加工，加工材料硬度HRC60；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨，产品精度较高；

Code No.	D	R	L1	L2	L	d	T
N60QSX4101	1.0	0.50	3	6	50	4	4
N60QSX4102	1.0	0.50	3	6	75	4	4
N60QSX4103	1.0	0.50	3	9	50	4	4
N60QSX4104	1.0	0.50	3	9	75	4	4
N60QSX4105	1.0	0.50	3	12	50	4	4
N60QSX4106	1.0	0.50	3	12	75	4	4
N60QSX4107	1.5	0.75	4	9	50	4	4
N60QSX4108	1.5	0.75	4	9	75	4	4
N60QSX4109	1.5	0.75	4	12	50	4	4
N60QSX4110	1.5	0.75	4	12	75	4	4
N60QSX4111	1.5	0.75	4	15	50	4	4
N60QSX4112	1.5	0.75	4	15	75	4	4
N60QSX4113	2.0	1.00	6	9	50	4	4
N60QSX4114	2.0	1.00	6	9	75	4	4
N60QSX4115	2.0	1.00	6	12	50	4	4
N60QSX4116	2.0	1.00	6	12	75	4	4
N60QSX4117	2.0	1.00	6	15	50	4	4
N60QSX4118	2.0	1.00	6	15	75	4	4
N60QSX4119	2.5	1.25	7	12	50	4	4
N60QSX4120	2.5	1.25	7	12	75	4	4
N60QSX4121	2.5	1.25	7	16	50	4	4
N60QSX4122	2.5	1.25	7	16	75	4	4
N60QSX4123	3.0	1.5	9	15	50	4	4
N60QSX4124	3.0	1.5	9	15	75	4	4
N60QSX4125	3.0	1.5	9	20	50	4	4
N60QSX4126	3.0	1.5	9	20	75	4	4
N60QSX4127	4.0	2.00	10	20	50	4	4
N60QSX4128	4.0	2.00	10	20	75	4	4
N60QSX4129	4.0	2.00	10	25	75	4	4
N60QSX4130	4.0	2.00	10	20	50	4	4
N60QSX4131	4.0	2.00	10	20	75	4	4
N60QSX4132	4.0	2.00	10	25	75	4	4

Recommended Cutting Conditions

推荐切削参数

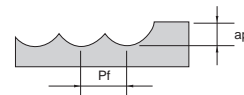
Working material	Hardened steel (HRC40-50 SKT、SKD)		Stainless steel (HRC25-30 SUS)		Cast iron (HRC25-30 HT250、QT450)		Non-ferrous metal (AL、ADC、CU)	
	80-120(m/min)		70-100(m/min)		80-120(m/min)		300-600(m/min)	
Vc	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)
1.0mm	38,200	0.010	2,700	0.010	31,000	0.013	95,000	0.013
1.5mm	21,000	0.010	18,000	0.011	2,100	0.014	63,000	0.016
2.0mm	16,000	0.012	13,500	0.012	16,000	0.015	47,000	0.017
2.5mm	12,700	0.013	10,800	0.012	12,700	0.016	38,000	0.018
3.0mm	10,600	0.014	9,000	0.013	10,600	0.017	31,000	0.022
4.0mm	8,000	0.018	6,700	0.014	8,000	0.023	23,000	0.030
5.0mm	6,300	0.020	5,400	0.016	6,300	0.025	19,000	0.040
6.0mm	5,300	0.027	4,500	0.021	5,300	0.035	16,000	0.045
7.0mm	4,500	0.030	3,800	0.025	4,500	0.040	136,000	0.050
8.0mm	4,000	0.036	3,300	0.028	4,000	0.046	12,000	0.060
9.0mm	3,500	0.400	3,000	0.030	3,500	0.050	10,600	0.075
10.0mm	3,200	0.050	2,700	0.040	3,100	0.066	9,500	0.092
12.0mm	2,600	0.060	2,200	0.048	2,600	0.079	7,900	0.110
14.0mm	2,200	0.070	1,900	0.052	2,200	0.090	6,800	0.130
16.0mm	2,000	0.080	1,600	0.060	2,000	0.110	5,900	0.150
18.0mm	1,700	0.090	1,500	0.070	1,700	0.120	5,300	0.170
20.0mm	1,600	0.100	1,200	0.080	1,600	0.130	4,700	0.180

Milling Amount (mm)



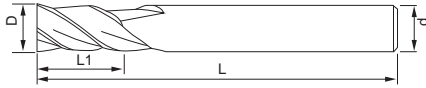
ap	ae	ap	ae	ap	ae
1.5D	0.05D	1.5D	0.03D	1.0D	0.02D
aeMax ≤ 1.0mm		aeMax ≤ 0.5mm		aeMax ≤ 0.5mm	

	ap	Pf
R ≤ 8	0.02D	0.1D
R > 8	0.32mm	0.1D



Tungsten steel 4flutes flat milling cutter

钨钢四刃标准平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 55-65. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛，HRC55-65均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

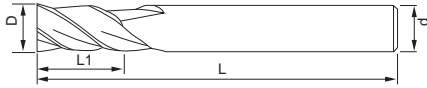
Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N65PPX4101	1.0	3	50	4	4
N65PPX4102	1.5	4.5	50	4	4
N65PPX4103	2.0	6	50	4	4
N65PPX4104	2.5	7.5	50	4	4
N65PPX4105	3.0	9	50	4	4
N65PPX4106	3.0	9	50	3	4
N65PPX4107	3.5	10	50	4	4
N65PPX4108	4.0	12	50	4	4
N65PPX4109	4.5	13	50	6	4
N65PPX4110	5.0	15	50	6	4
N65PPX4111	5.0	15	50	5	4
N65PPX4112	5.5	16	50	6	4
N65PPX4113	6.0	15	50	6	4
N65PPX4114	6.0	18	50	6	4
N65PPX4115	7.0	20	60	8	4
N65PPX4116	8.0	20	60	8	4
N65PPX4117	8.0	25	60	8	4
N65PPX4118	9.0	27	75	10	4
N65PPX4119	10.0	25	75	10	4
N65PPX4120	10.0	30	75	10	4
N65PPX4121	11.0	30	75	12	4
N65PPX4122	12.0	30	75	12	4
N65PPX4123	13.0	40	100	13	4
N65PPX4124	14.0	40	100	14	4
N65PPX4125	15.0	42	100	16	4
N65PPX4126	16.0	45	100	16	4
N65PPX4127	18.0	45	100	18	4
N65PPX4128	20.0	48	100	20	4

Long shank tungsten steel 4flutes flat milling cutter

钨钢四刃长柄平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC 55-65. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛, HRC55-65均可加工, 属于通用型材料加工, 如钢、铸铁、不锈钢、钛合金和其它非铁金属;

Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

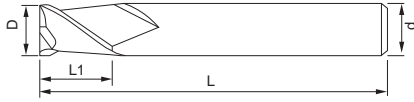
Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N65PPX4129	1.0	4	75	4	4
N65PPX4130	1.5	6	75	4	4
N65PPX4131	2.0	8	75	4	4
N65PPX4132	2.5	10	75	4	4
N65PPX4133	3.0	12	75	4	4
N65PPX4134	4.0	16	75	4	4
N65PPX4135	4.0	16	100	4	4
N65PPX4136	5.0	18	75	6	4
N65PPX4137	5.0	18	100	6	4
N65PPX4138	6.0	22	75	6	4
N65PPX4139	6.0	22	100	6	4
N65PPX4140	6.0	25	150	6	4
N65PPX4141	8.0	25	75	8	4
N65PPX4142	8.0	30	100	8	4
N65PPX4143	8.0	35	150	8	4
N65PPX4144	10.0	30	100	10	4
N65PPX4145	10.0	40	150	10	4
N65PPX4146	12.0	35	100	12	4
N65PPX4147	12.0	45	150	12	4
N65PPX4148	14.0	45	150	14	4
N65PPX4149	16.0	50	150	16	4
N65PPX4150	18.0	55	150	18	4
N65PPX4151	20.0	55	150	20	4



Tungsten steel 2flutes flat milling cutter

钨钢二刃标准平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 55-65. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

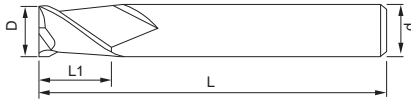
应用广泛，HRC55-65均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Code No.	D	L1	L	d	T
N65PPX2101	1.0	3	50	4	2
N65PPX2102	1.5	4.5	50	4	2
N65PPX2103	2.0	6	50	4	2
N65PPX2104	2.5	7.5	50	4	2
N65PPX2105	3.0	9	50	4	2
N65PPX2106	3.0	9	50	3	2
N65PPX2107	3.5	10	50	4	2
N65PPX2108	4.0	12	50	4	2
N65PPX2109	4.5	13	50	6	2
N65PPX2110	5.0	13	50	6	2
N65PPX2111	5.0	15	50	5	2
N65PPX2112	5.5	15	50	6	2
N65PPX2113	6.0	15	50	6	2
N65PPX2114	7.0	20	60	8	2
N65PPX2115	8.0	20	60	8	2
N65PPX2116	9.0	25	75	10	2
N65PPX2117	10.0	25	75	10	2
N65PPX2118	11.0	30	75	12	2
N65PPX2119	12.0	30	75	12	2
N65PPX2120	14.0	40	100	14	2
N65PPX2121	16.0	45	100	16	2
N65PPX2122	18.0	45	100	18	2
N65PPX2123	20.0	48	100	20	2
N65PPX2124	5.0	15	50	5	2

Long shank tungsten steel 2flutes flat milling cutter

钨钢二刃长柄平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC 55-65. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛, HRC55-65均可加工, 属于通用型材料加工, 如钢、铸铁、不锈钢、钛合金和其它非铁金属;

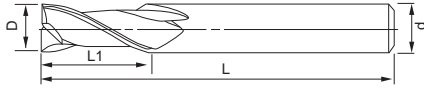
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N65PPX2125	1.0	4	75	4	2
N65PPX2126	1.5	6	75	4	2
N65PPX2127	2.0	8	75	4	2
N65PPX2128	2.5	10	75	4	2
N65PPX2129	3.0	12	75	4	2
N65PPX2130	4.0	16	75	4	2
N65PPX2131	4.0	16	100	4	2
N65PPX2132	5.0	18	75	6	2
N65PPX2133	5.0	18	100	6	2
N65PPX2134	6.0	22	75	6	2
N65PPX2135	6.0	22	100	6	2
N65PPX2136	6.0	25	150	6	2
N65PPX2137	8.0	25	75	8	2
N65PPX2138	8.0	30	100	8	2
N65PPX2139	8.0	35	150	8	2
N65PPX2140	10.0	30	100	10	2
N65PPX2141	10.0	40	150	10	2
N65PPX2142	12.0	35	100	12	2
N65PPX2143	12.0	45	150	12	2
N65PPX2144	14.0	45	150	14	2
N65PPX2145	16.0	50	150	16	2
N65PPX2146	18.0	55	150	18	2
N65PPX2147	20.0	55	150	20	2

Tungsten steel 3flutes flat milling cutter

钨钢三刃标准平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 55-65. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

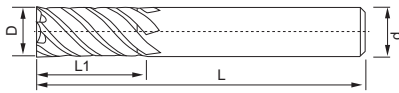
应用广泛，HRC55-65均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Code No.	D	L1	L	d	T
N65PPX3101	1.0	3	50	4	3
N65PPX3102	1.5	4.5	50	4	3
N65PPX3103	2.0	6	50	4	3
N65PPX3104	2.5	7.5	50	4	3
N65PPX3105	3.0	9	50	4	3
N65PPX3106	4.0	12	50	4	3
N65PPX3107	5.0	15	50	6	3
N65PPX3108	6.0	18	50	6	3
N65PPX3109	8.0	25	60	8	3
N65PPX3110	10.0	30	75	10	3
N65PPX3111	12.0	32	75	12	3
N65PPX3112	14.0	40	100	14	3
N65PPX3113	16.0	45	100	16	3
N65PPX3114	18.0	45	100	18	3
N65PPX3115	20.0	48	100	20	3
N65PPX3116	3.0	9	50	3	3
N65PPX3117	5.0	15	50	5	3
N65PPX3118	4.0	16	75	4	3
N65PPX3119	4.0	16	100	4	3
N65PPX3120	5.0	18	75	6	3
N65PPX3121	5.0	18	100	6	3
N65PPX3122	6.0	22	75	6	3
N65PPX3123	6.0	22	100	6	3
N65PPX3124	6.0	25	150	6	3
N65PPX3125	8.0	25	75	8	3
N65PPX3126	8.0	30	100	8	3
N65PPX3127	8.0	35	150	8	3
N65PPX3128	10.0	30	100	10	3
N65PPX3129	10.0	40	150	10	3
N65PPX3130	12.0	35	100	12	3
N65PPX3131	12.0	45	150	12	3
N65PPX3132	14.0	45	150	14	3
N65PPX3133	16.0	50	150	16	3
N65PPX3134	20.0	55	150	20	3

Tungsten steel 6flutes flat milling cutter

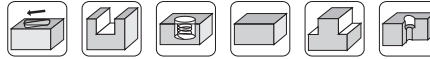
钨钢六刃铣刀



Material



Processing graphics



Special coatings have excellent wear resistance, reduced friction coefficient and have a good surface finish;

特殊涂层具有优异的耐磨性，减少了摩擦系数，有良好的表面光洁度；

Can be processed HRC 55-65. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

HRC55-65均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Six-edge design, suitable for high-speed processing, unequal helix angle design, reduce vibration in the process of processing;

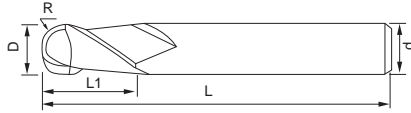
采用六刃设计，适合高速加工，不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N65PPX6105	10.0	30	75	10	6
N65PPX6106	11.0	30	75	12	6
N65PPX6107	12.0	30	75	12	6
N65PPX6108	14.0	50	100	14	6
N65PPX6109	16.0	50	100	16	6
N65PPX6110	20.0	50	100	20	6
N65PPX6111	6.0	25	75	6	6
N65PPX6112	8.0	35	75	8	6
N65PPX6113	8.0	35	100	8	6
N65PPX6114	10.0	40	100	10	6
N65PPX6115	12.0	45	100	12	6
N65PPX6116	14.0	65	150	14	6
N65PPX6117	16.0	65	150	16	6
N65PPX6118	20.0	75	150	20	6

Tungsten steel 2flutes ballnose milling cutter

钨钢二刃标准球铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC55-65;
适合模具加工, 加工材料硬度HRC55-65;

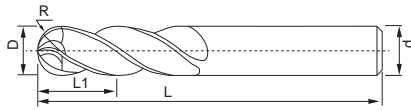
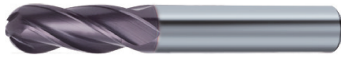
The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨, 产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N65QPX2101	1.0	0.5R	2	50	4	2
N65QPX2102	1.0	0.5R	2	75	4	2
N65QPX2103	1.5	0.75R	3	50	4	2
N65QPX2104	1.5	0.75R	3	75	4	2
N65QPX2105	2.0	1R	4	75	4	2
N65QPX2106	2.0	1R	4	50	4	2
N65QPX2107	2.5	1.25R	5	50	4	2
N65QPX2108	2.5	1.25R	5	75	4	2
N65QPX2109	3.0	1.5R	6	50	4	2
N65QPX2110	3.0	1.5R	6	75	4	2
N65QPX2111	3.5	1.75R	7	75	4	2
N65QPX2112	4.0	2R	8	50	4	2
N65QPX2113	4.0	2R	10	75	4	2
N65QPX2114	4.0	2R	10	100	4	2
N65QPX2115	5.0	2.5R	10	50	6	2
N65QPX2116	5.0	2.5R	12	75	6	2
N65QPX2117	5.0	2.5R	12	100	6	2
N65QPX2118	6.0	3R	12	50	6	2
N65QPX2119	6.0	3R	14	75	6	2
N65QPX2120	6.0	3R	16	100	6	2
N65QPX2121	6.0	3R	20	150	6	2
N65QPX2122	8.0	4R	16	60	8	2
N65QPX2123	8.0	4R	18	75	8	2
N65QPX2124	8.0	4R	20	100	8	2
N65QPX2125	8.0	4R	22	150	8	2
N65QPX2126	10.0	5R	20	75	10	2
N65QPX2127	10.0	5R	24	100	10	2
N65QPX2128	10.0	5R	26	150	10	2
N65QPX2129	12.0	6R	24	75	12	2
N65QPX2130	12.0	6R	26	100	12	2
N65QPX2131	12.0	6R	30	150	12	2
N65QPX2132	14.0	7R	28	100	14	2
N65QPX2133	16.0	8R	32	100	16	2
N65QPX2134	16.0	8R	36	150	16	2
N65QPX2135	20.0	10R	36	100	20	2
N65QPX2136	20.0	10R	40	150	20	2

Tungsten steel 4flutes ballnose milling cutter

钨钢四刃标准球铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material hardness HRC55-65;
适合模具加工，加工材料硬度HRC55-65；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨，产品精度较高；

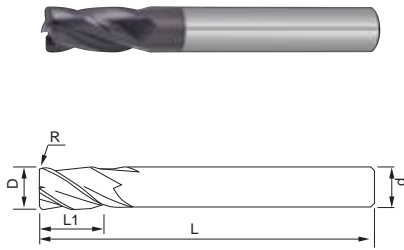
Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N65QPX4101	1.0	0.5R	2	50	4	4
N65QPX4102	1.5	0.75R	3	50	4	4
N65QPX4103	2.0	1R	4	50	4	4
N65QPX4104	2.5	1.25R	5	50	4	4
N65QPX4105	3.0	1.5R	6	50	4	4
N65QPX4106	2.5	1.75R	7	50	4	4
N65QPX4107	4.0	2R	8	50	4	4
N65QPX4108	4.0	2R	10	75	4	4
N65QPX4109	4.0	2R	10	100	4	4
N65QPX4110	5.0	2.5R	10	50	6	4
N65QPX4111	5.0	2.5R	12	75	6	4
N65QPX4112	5.0	2.5R	12	100	6	4
N65QPX4113	6.0	3R	12	50	6	4
N65QPX4114	6.0	3R	14	75	6	4
N65QPX4115	6.0	3R	16	100	6	4
N65QPX4116	6.0	3R	20	150	6	4
N65QPX4117	8.0	4R	16	60	8	4
N65QPX4118	8.0	4R	18	75	8	4
N65QPX4119	8.0	4R	20	100	8	4
N65QPX4120	8.0	4R	22	150	8	4
N65QPX4121	10.0	5R	20	75	10	4
N65QPX4122	10.0	5R	24	100	10	4
N65QPX4123	10.0	5R	26	150	10	4
N65QPX4124	12.0	6R	26	100	12	4
N65QPX4125	12.0	6R	30	150	12	4
N65QPX4126	12.0	6R	24	75	12	4
N65QPX4127	14.0	7R	28	100	14	4
N65QPX4128	14.0	7R	34	150	14	4
N65QPX4129	16.0	8R	32	100	16	4
N65QPX4130	16.0	8R	36	150	16	4
N65QPX4131	20.0	10R	36	100	20	4
N65QPX4132	20.0	10R	40	150	20	4



Tungsten steel 4flutes corner radius milling cutter

钨钢四刃标准圆鼻铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material hardness HRC55-65;
适合模具加工，加工材料硬度HRC55-65；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨，产品精度较高；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N65YPX4101	1.0	0.1R	3	50	4	4
N65YPX4102	1.0	0.2R	3	50	4	4
N65YPX4103	1.5	0.1R	4.5	50	4	4
N65YPX4104	1.5	0.2R	4.5	50	4	4
N65YPX4105	1.5	0.5R	4.5	50	4	4
N65YPX4106	2.0	0.1R	6	50	4	4
N65YPX4107	2.0	0.2R	6	50	4	4
N65YPX4108	2.0	0.3R	6	50	4	4
N65YPX4109	2.0	0.5R	6	50	4	4
N65YPX4110	2.5	0.1R	7.5	50	4	4
N65YPX4111	2.5	0.2R	7.5	50	4	4
N65YPX4112	2.5	0.3R	7.5	50	4	4
N65YPX4113	2.5	0.5R	7.5	50	4	4
N65YPX4114	3.0	0.2R	9	50	4	4
N65YPX4115	3.0	0.3R	9	50	4	4
N65YPX4116	3.0	0.5R	9	50	4	4
N65YPX4117	3.0	1R	9	50	4	4
N65YPX4118	4.0	0.2R	12	50	4	4
N65YPX4119	4.0	0.3R	12	50	4	4
N65YPX4120	4.0	0.5R	12	50	4	4
N65YPX4121	4.0	1R	12	50	4	4
N65YPX4122	4.0	1.5R	12	50	4	4
N65YPX4123	5.0	0.2R	13	50	6	4
N65YPX4124	5.0	0.5R	13	50	6	4
N65YPX4125	5.0	1R	13	50	6	4
N65YPX4126	6.0	0.2R	15	50	6	4
N65YPX4127	6.0	0.3R	15	50	6	4
N65YPX4128	6.0	0.5R	15	50	6	4
N65YPX4129	6.0	1R	15	50	6	4
N65YPX4130	6.0	1.5R	15	50	6	4
N65YPX4131	6.0	2R	15	50	6	4
N65YPX4132	8.0	0.2R	20	50	8	4
N65YPX4133	8.0	0.3R	20	60	8	4
N65YPX4134	8.0	0.5R	20	60	8	4
N65YPX4135	8.0	1R	20	60	8	4
N65YPX4136	8.0	1.5R	20	60	8	4

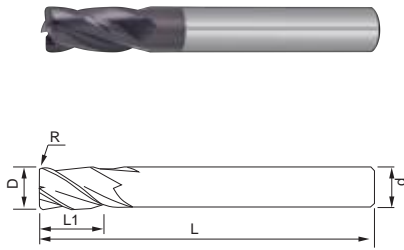
Tungsten steel 4flutes corner radius milling cutter

钨钢四刃标准圆鼻铣刀

Code No.	D	R	L1	L	d	T
N65YPX4137	8.0	2R	20	60	8	4
N65YPX4138	10.0	0.2R	25	75	10	4
N65YPX4139	10.0	0.3R	25	75	10	4
N65YPX4140	10.0	0.5R	25	75	10	4
N65YPX4141	10.0	1R	25	75	10	4
N65YPX4142	10.0	1.5R	25	75	10	4
N65YPX4143	10.0	2R	25	75	10	4
N65YPX4144	12.0	0.5R	30	75	12	4
N65YPX4145	12.0	1R	30	75	12	4
N65YPX4146	12.0	1.5R	30	75	12	4
N65YPX4147	12.0	2R	30	75	12	4
N65YPX4148	14.0	0.5R	40	100	14	4
N65YPX4149	14.0	1R	40	100	14	4
N65YPX4150	16.0	0.5R	45	100	16	4
N65YPX4151	16.0	1R	45	100	16	4
N65YPX4152	20.0	0.5R	45	100	20	4
N65YPX4153	20.0	1R	45	100	20	4

Tungsten steel 4flutes long corner radius milling cutter

钨钢四刃加长圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC55-65;
适合模具加工, 加工材料硬度HRC55-65;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨, 产品精度较高;

Code No.	D	R	L1	L	d	T
N65YPX4154	1.0	0.2R	4	75	4	4
N65YPX4155	1.0	0.2R	4	100	4	4
N65YPX4156	1.5	0.2R	6	75	4	4
N65YPX4157	1.5	0.2R	6	100	4	4
N65YPX4158	2.0	0.2R	8	75	4	4
N65YPX4159	2.0	0.2R	8	100	4	4
N65YPX4160	3.0	0.2R	12	75	4	4
N65YPX4161	3.0	0.2R	12	100	4	4
N65YPX4162	4.0	0.2R	16	75	4	4
N65YPX4163	4.0	0.2R	16	100	4	4
N65YPX4164	4.0	0.5R	16	75	4	4
N65YPX4165	4.0	0.5R	16	100	4	4
N65YPX4166	5.0	0.2R	18	75	6	4
N65YPX4167	5.0	0.2R	18	100	6	4
N65YPX4168	5.0	0.5R	18	75	6	4
N65YPX4169	5.0	0.5R	18	100	6	4
N65YPX4170	6.0	0.2R	20	75	6	4
N65YPX4171	6.0	0.2R	20	100	6	4
N65YPX4172	6.0	0.2R	25	150	6	4
N65YPX4173	6.0	0.5R	20	75	6	4
N65YPX4174	6.0	0.5R	20	100	6	4
N65YPX4175	6.0	0.5R	25	150	6	4
N65YPX4176	6.0	1R	20	75	6	4
N65YPX4177	6.0	1R	20	100	6	4
N65YPX4178	6.0	1R	25	150	6	4
N65YPX4179	8.0	0.2R	25	75	8	4
N65YPX4180	8.0	0.2R	30	100	8	4
N65YPX4181	8.0	0.2R	35	150	8	4
N65YPX4182	8.0	0.5R	25	75	8	4
N65YPX4183	8.0	0.5R	30	100	8	4
N65YPX4184	8.0	0.5R	35	150	8	4
N65YPX4185	8.0	1R	25	75	8	4
N65YPX4186	8.0	1R	30	100	8	4
N65YPX4187	8.0	1R	35	150	8	4
N65YPX4188	10.0	0.2R	30	100	10	4
N65YPX4189	10.0	0.2R	35	150	10	4

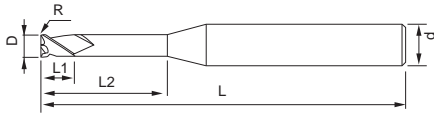
Tungsten steel 4flutes long corner radius milling cutter

钨钢四刃加长圆鼻铣刀

Code No.	D	R	L1	L	d	T
N65YPX4190	10.0	0.5R	30	100	10	4
N65YPX4191	10.0	0.5R	35	150	10	4
N65YPX4192	10.0	1R	30	100	10	4
N65YPX4193	10.0	1R	35	150	10	4
N65YPX4194	12.0	0.5R	35	100	12	4
N65YPX4195	12.0	0.5R	40	150	12	4
N65YPX4196	12.0	1R	35	100	12	4
N65YPX4197	12.0	1R	40	150	12	4
N65YPX4198	16.0	0.5R	55	150	16	4
N65YPX4199	16.0	1R	55	150	16	4
N65YPX4200	20.0	0.5R	55	150	20	4
N65YPX4201	20.0	1R	55	150	20	4

Tungsten steel 4flutes long neck deep groove corner radius milling cutter

钨钢四刃长颈深沟圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC55-65;
适合模具加工, 加工材料硬度HRC55-65;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨, 产品精度较高;

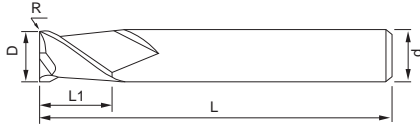
Code No.	D	R	L1	L2	L	d	T
N65YPX4202	1.0	0.2R	3	6	50	4	4
N65YPX4203	1.0	0.2R	3	9	50	4	4
N65YPX4204	1.0	0.2R	3	12	50	4	4
N65YPX4205	1.5	0.2R	4	9	50	4	4
N65YPX4206	1.5	0.2R	4	12	50	4	4
N65YPX4207	1.5	0.2R	4	15	50	4	4
N65YPX4208	2.0	0.2R	6	9	50	4	4
N65YPX4209	2.0	0.2R	6	12	50	4	4
N65YPX4210	2.0	0.2R	6	15	50	4	4
N65YPX4211	2.5	0.2R	7	12	50	4	4
N65YPX4212	2.5	0.2R	7	16	50	4	4
N65YPX4213	3.0	0.2R	9	15	50	4	4
N65YPX4214	3.0	0.2R	9	20	50	4	4
N65YPX4215	4.0	0.2R	10	20	50	4	4
N65YPX4216	4.0	0.2R	10	25	75	4	4
N65YPX4217	4.0	0.5R	10	20	50	4	4
N65YPX4218	4.0	0.5R	10	25	75	4	4
N65YPX4219	5.0	0.2R	12	20	50	6	4
N65YPX4220	5.0	0.2R	12	25	75	6	4
N65YPX4221	5.0	0.5R	12	20	50	6	4
N65YPX4222	5.0	0.5R	12	25	75	6	4
N65YPX4223	6.0	0.2R	12	30	75	6	4
N65YPX4224	6.0	0.2R	12	30	100	6	4
N65YPX4225	6.0	0.5R	12	30	75	6	4
N65YPX4226	6.0	0.5R	12	30	100	6	4
N65YPX4227	6.0	1R	12	30	75	6	4
N65YPX4228	6.0	1R	12	30	100	6	4
N65YPX4229	8.0	0.5R	16	40	75	8	4
N65YPX4230	8.0	0.5R	16	40	100	8	4
N65YPX4231	8.0	0.5R	16	40	150	8	4
N65YPX4232	8.0	1R	16	40	75	8	4
N65YPX4233	8.0	1R	16	40	100	8	4
N65YPX4234	8.0	1R	16	40	150	8	4
N65YPX4235	10.0	0.5R	20	50	100	10	4
N65YPX4236	10.0	0.5R	20	50	150	10	4
N65YPX4237	10.0	1R	20	50	100	10	4

Tungsten steel 4flutes long neck deep groove corner radius milling cutter 钨钢四刃长颈深沟圆鼻铣刀

Code No.	D	R	L1	L2	L	d	T
N65YPX4238	10.0	1R	20	50	150	10	4
N65YPX4239	12.0	0.5R	24	50	100	12	4
N65YPX4240	12.0	0.5R	24	50	150	12	4
N65YPX4241	12.0	1R	24	50	100	12	4
N65YPX4242	12.0	1R	24	50	150	12	4
N65YPX4243	16.0	0.5R	32	50	150	16	4
N65YPX4244	16.0	1R	32	50	150	16	4
N65YPX4245	20.0	0.5R	40	60	150	20	4
N65YPX4246	20.0	1R	40	60	150	20	4

Tungsten steel 2flutes corner radius milling cutter

钨钢二刃标准圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC55-65;
适合模具加工, 加工材料硬度HRC55-65;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨, 产品精度较高;

Code No.	D	R	L1	L	d	T
N65YPX2101	1.0	0.1R	3	50	4	2
N65YPX2102	1.0	0.2R	3	50	4	2
N65YPX2103	1.5	0.1R	4.5	50	4	2
N65YPX2104	1.5	0.2R	4.5	50	4	2
N65YPX2105	1.5	0.5R	4.5	50	4	2
N65YPX2106	2.0	0.1R	6	50	4	2
N65YPX2107	2.0	0.2R	6	50	4	2
N65YPX2108	2.0	0.3R	6	50	4	2
N65YPX2109	2.0	0.5R	6	50	4	2
N65YPX2110	2.5	0.1R	7.5	50	4	2
N65YPX2111	2.5	0.2R	7.5	50	4	2
N65YPX2112	2.5	0.3R	7.5	50	4	2
N65YPX2113	2.5	0.5R	7.5	50	4	2
N65YPX2114	3.0	0.2R	9	50	4	2
N65YPX2115	3.0	0.3R	9	50	4	2
N65YPX2116	3.0	0.5R	9	50	4	2
N65YPX2117	3.0	1R	9	50	4	2
N65YPX2118	4.0	0.2R	12	50	4	2
N65YPX2119	4.0	0.3R	12	50	4	2
N65YPX2120	4.0	0.5R	12	50	4	2
N65YPX2121	4.0	1R	12	50	4	2
N65YPX2122	4.0	1.5R	12	50	4	2
N65YPX2123	5.0	0.2R	13	50	6	2
N65YPX2124	5.0	0.5R	13	50	6	2
N65YPX2125	5.0	1R	13	50	6	2
N65YPX2126	6.0	0.2R	15	50	6	2
N65YPX2127	6.0	0.3R	15	50	6	2
N65YPX2128	6.0	0.5R	15	50	6	2
N65YPX2129	6.0	1R	15	50	6	2
N65YPX2130	6.0	1.5R	15	50	6	2
N65YPX2131	6.0	2R	15	50	6	2
N65YPX2132	8.0	0.2R	20	50	8	2
N65YPX2133	8.0	0.3R	20	60	8	2
N65YPX2134	8.0	0.5R	20	60	8	2
N65YPX2135	8.0	1R	20	60	8	2
N65YPX2136	8.0	1.5R	20	60	8	2

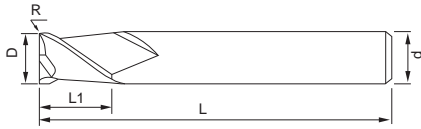
Tungsten steel 2flutes corner radiuse milling cutter

钨钢二刃标准圆鼻铣刀

Code No.	D	R	L1	L	d	T
N65YPX2137	8.0	2R	20	60	8	2
N65YPX2138	10.0	0.2R	25	75	10	2
N65YPX2139	10.0	0.3R	25	75	10	2
N65YPX2140	10.0	0.5R	25	75	10	2
N65YPX2141	10.0	1R	25	75	10	2
N65YPX2142	10.0	1.5R	25	75	10	2
N65YPX2143	10.0	2R	25	75	10	2
N65YPX2144	12.0	0.5R	30	75	12	2
N65YPX2145	12.0	1R	30	75	12	2
N65YPX2146	12.0	1.5R	30	75	12	2
N65YPX2147	12.0	2R	30	75	12	2
N65YPX2148	14.0	0.5R	40	100	14	2
N65YPX2149	14.0	1R	40	100	14	2
N65YPX2150	16.0	0.5R	45	100	16	2
N65YPX2151	16.0	1R	45	100	16	2
N65YPX2152	20.0	0.5R	45	100	20	2
N65YPX2153	20.0	1R	45	100	20	2

Tungsten steel 2flutes long corner radius milling cutter

钨钢二刃加长圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material hardness HRC55-65;
适合模具加工，加工材料硬度HRC55-65；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨，产品精度较高；

Code No.	D	R	L1	L	d	T
N65YPX2154	1.0	0.2R	4	75	4	2
N65YPX2155	1.0	0.2R	4	100	4	2
N65YPX2156	1.5	0.2R	6	75	4	2
N65YPX2157	1.5	0.2R	6	100	4	2
N65YPX2158	2.0	0.2R	8	75	4	2
N65YPX2159	2.0	0.2R	8	100	4	2
N65YPX2160	3.0	0.2R	12	75	4	2
N65YPX2161	3.0	0.2R	12	100	4	2
N65YPX2162	4.0	0.2R	16	75	4	2
N65YPX2163	4.0	0.2R	16	100	4	2
N65YPX2164	4.0	0.5R	16	75	4	2
N65YPX2165	4.0	0.5R	16	100	4	2
N65YPX2166	5.0	0.2R	18	75	6	2
N65YPX2167	5.0	0.2R	18	100	6	2
N65YPX2168	5.0	0.5R	18	75	6	2
N65YPX2169	5.0	0.5R	18	100	6	2
N65YPX2170	6.0	0.2R	20	75	6	2
N65YPX2171	6.0	0.2R	20	100	6	2
N65YPX2172	6.0	0.2R	25	150	6	2
N65YPX2173	6.0	0.5R	20	75	6	2
N65YPX2174	6.0	0.5R	20	100	6	2
N65YPX2175	6.0	0.5R	25	150	6	2
N65YPX2176	6.0	1R	20	75	6	2
N65YPX2177	6.0	1R	20	100	6	2
N65YPX2178	6.0	1R	25	150	6	2
N65YPX2179	8.0	0.2R	25	75	8	2
N65YPX2180	8.0	0.2R	30	100	8	2
N65YPX2181	8.0	0.2R	35	150	8	2
N65YPX2182	8.0	0.5R	25	75	8	2
N65YPX2183	8.0	0.5R	30	100	8	2
N65YPX2184	8.0	0.5R	35	150	8	2
N65YPX2185	8.0	1R	25	75	8	2
N65YPX2186	8.0	1R	30	100	8	2
N65YPX2187	8.0	1R	35	150	8	2
N65YPX2188	10.0	0.2R	30	100	10	2
N65YPX2189	10.0	0.2R	35	150	10	2

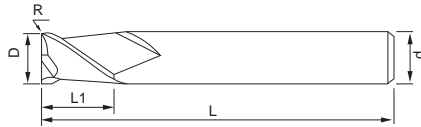
Tungsten steel 2flutes long corner radius milling cutter

钨钢二刃加长圆鼻铣刀

Code No.	D	R	L1	L	d	T
N65YPX2190	10.0	0.5R	30	100	10	2
N65YPX2191	10.0	0.5R	35	150	10	2
N65YPX2192	10.0	1R	30	100	10	2
N65YPX2193	10.0	1R	35	150	10	2
N65YPX2194	12.0	0.5R	35	100	12	2
N65YPX2195	12.0	0.5R	40	150	12	2
N65YPX2196	12.0	1R	35	100	12	2
N65YPX2197	12.0	1R	40	150	12	2
N65YPX2198	16.0	0.5R	55	150	16	2
N65YPX2199	16.0	1R	55	150	16	2
N65YPX2200	20.0	0.5R	55	150	20	2
N65YPX2201	20.0	1R	55	150	20	2

Tungsten steel 2flutes long neck deep groove corner radius milling cutter

钨钢二刃长颈深沟圆鼻铣刀

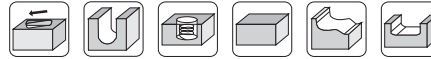


Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material hardness HRC55-65;
适合模具加工, 加工材料硬度HRC55-65;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨, 产品精度较高;

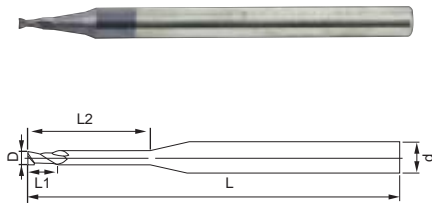
Code No.	D	R	L1	L	d	T
N65YPX2202	1.0	0.2R	3	50	4	2
N65YPX2203	1.0	0.2R	3	50	4	2
N65YPX2204	1.0	0.2R	3	50	4	2
N65YPX2205	1.5	0.2R	4	50	4	2
N65YPX2206	1.5	0.2R	4	50	4	2
N65YPX2207	1.5	0.2R	4	50	4	2
N65YPX2208	2.0	0.2R	6	50	4	2
N65YPX2209	2.0	0.2R	6	50	4	2
N65YPX2210	2.0	0.2R	6	50	4	2
N65YPX2211	2.5	0.2R	7	50	4	2
N65YPX2212	2.5	0.2R	7	50	4	2
N65YPX2213	3.0	0.2R	9	50	4	2
N65YPX2214	3.0	0.2R	9	50	4	2
N65YPX2215	4.0	0.2R	10	50	4	2
N65YPX2216	4.0	0.2R	10	75	4	2
N65YPX2217	4.0	0.5R	10	50	4	2
N65YPX2218	4.0	0.5R	10	75	4	2
N65YPX2219	5.0	0.2R	12	50	6	2
N65YPX2220	5.0	0.2R	12	75	6	2
N65YPX2221	5.0	0.5R	12	50	6	2
N65YPX2222	5.0	0.5R	12	75	6	2
N65YPX2223	6.0	0.2R	12	75	6	2
N65YPX2224	6.0	0.2R	12	100	6	2
N65YPX2225	6.0	0.5R	12	75	6	2
N65YPX2226	6.0	0.5R	12	100	6	2
N65YPX2227	6.0	1R	12	75	6	2
N65YPX2228	6.0	1R	12	100	6	2
N65YPX2229	8.0	0.5R	16	75	8	2
N65YPX2230	8.0	0.5R	16	100	8	2
N65YPX2231	8.0	0.5R	16	150	8	2
N65YPX2232	8.0	1R	16	75	8	2
N65YPX2233	8.0	1R	16	100	8	2
N65YPX2234	8.0	1R	16	150	8	2
N65YPX2235	10.0	0.5R	20	100	10	2
N65YPX2236	10.0	0.5R	20	150	10	2
N65YPX2237	10.0	1R	20	100	10	2

Tungsten steel 2flutes long neck deep groove corner radius milling cutter 钨钢二刃长颈深沟圆鼻铣刀

Code No.	D	R	L1	L	d	T
N65YPX2238	10.0	1R	20	150	10	2
N65YPX2239	12.0	0.5R	24	100	12	2
N65YPX2240	12.0	0.5R	24	150	12	2
N65YPX2241	12.0	1R	24	100	12	2
N65YPX2242	12.0	1R	24	150	12	2
N65YPX2243	16.0	0.5R	32	150	16	2
N65YPX2244	16.0	1R	32	150	16	2
N65YPX2245	20.0	0.5R	40	150	20	2
N65YPX2246	20.0	1R	40	150	20	2

Tungsten steel 2 flutes deep hook flat milling cutter

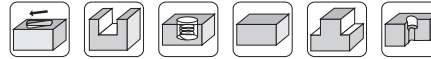
钨钢二刃深勾标准平铣刀



Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used, Can be processed the materials below HRC65, It belongs to general material processing, such as steel, cast iron, and other non-ferrous metals;

应用广泛, HRC65以下材料加工, 属于通用型材料加工, 如钢、铸铁、钛合金、耐热合金和其它非铁金属;

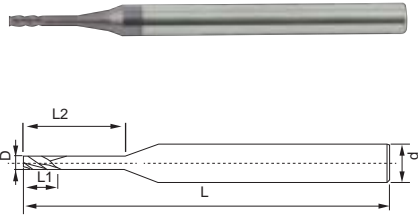
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L2	L	d	T
N65PSX2101	1.0	3	6	50	4	2
N65PSX2102	1.0	3	6	75	4	2
N65PSX2103	1.0	3	9	50	4	2
N65PSX2104	1.0	3	9	75	4	2
N65PSX2105	1.0	3	12	50	4	2
N65PSX2106	1.0	3	12	75	4	2
N65PSX2107	1.5	4	9	50	4	2
N65PSX2108	1.5	4	9	75	4	2
N65PSX2109	1.5	4	12	50	4	2
N65PSX2110	1.5	4	12	75	4	2
N65PSX2111	1.5	4	15	50	4	2
N65PSX2112	1.5	4	15	75	4	2
N65PSX2113	2.0	6	9	50	4	2
N65PSX2114	2.0	6	9	75	4	2
N65PSX2115	2.0	6	12	50	4	2
N65PSX2116	2.0	6	12	75	4	2
N65PSX2117	2.0	6	15	50	4	2
N65PSX2118	2.0	6	15	75	4	2
N65PSX2119	2.5	7	12	50	4	2
N65PSX2120	2.5	7	12	75	4	2
N65PSX2121	2.5	7	16	50	4	2
N65PSX2122	2.5	7	16	75	4	2
N65PSX2123	3.0	9	15	50	4	2
N65PSX2124	3.0	9	15	75	4	2
N65PSX2125	3.0	9	20	50	4	2
N65PSX2126	3.0	9	20	75	4	2
N65PSX2127	4.0	10	20	50	4	2
N65PSX2128	4.0	10	20	75	4	2
N65PSX2129	4.0	10	25	75	4	2
N65PSX2130	4.0	10	20	50	4	2
N65PSX2131	4.0	10	20	75	4	2
N65PSX2132	4.0	10	25	75	4	2

Tungsten steel 4 flutes deep hook flat milling cutter

钨钢四刃深勾标准平铣刀



Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used, Can be processed the materials below HRC65, It belongs to general material processing, such as steel, cast iron, and other non-ferrous metals;
应用广泛, HRC65以下材料加工, 属于通用型材料加工, 如钢、铸铁、钛合金、耐热合金和其它非铁金属;

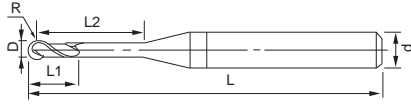
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L2	L	d	T
N65PSX4101	1.0	3	6	50	4	4
N65PSX4102	1.0	3	6	75	4	4
N65PSX4103	1.0	3	9	50	4	4
N65PSX4104	1.0	3	9	75	4	4
N65PSX4105	1.0	3	12	50	4	4
N65PSX4106	1.0	3	12	75	4	4
N65PSX4107	1.5	4	9	50	4	4
N65PSX4108	1.5	4	9	75	4	4
N65PSX4109	1.5	4	12	50	4	4
N65PSX4110	1.5	4	12	75	4	4
N65PSX4111	1.5	4	15	50	4	4
N65PSX4112	1.5	4	15	75	4	4
N65PSX4113	2.0	6	9	50	4	4
N65PSX4114	2.0	6	9	75	4	4
N65PSX4115	2.0	6	12	50	4	4
N65PSX4116	2.0	6	12	75	4	4
N65PSX4117	2.0	6	15	50	4	4
N65PSX4118	2.0	6	15	75	4	4
N65PSX4119	2.5	7	12	50	4	4
N65PSX4120	2.5	7	12	75	4	4
N65PSX4121	2.5	7	16	50	4	4
N65PSX4122	2.5	7	16	75	4	4
N65PSX4123	3.0	9	15	50	4	4
N65PSX4124	3.0	9	15	75	4	4
N65PSX4125	3.0	9	20	50	4	4
N65PSX4126	3.0	9	20	75	4	4
N65PSX4127	4.0	10	20	50	4	4
N65PSX4128	4.0	10	20	75	4	4
N65PSX4129	4.0	10	25	75	4	4
N65PSX4130	4.0	10	20	50	4	4
N65PSX4131	4.0	10	20	75	4	4
N65PSX4132	4.0	10	25	75	4	4

Tungsten steel 2 flutes deep hook ballnose milling cutter

钨钢二刃深勾标准球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non - ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material is HRC65;
适合模具加工，加工材料硬度HRC65;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨，产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

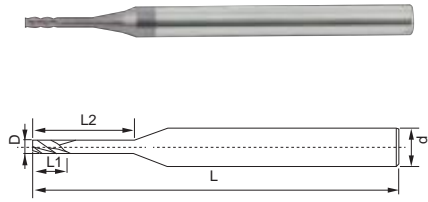
Code No.	D	R	L1	L2	L	d	T
N65QSX2101	1.0	0.50R	3	6	50	4	2
N65QSX2102	1.0	0.50R	3	6	75	4	2
N65QSX2103	1.0	0.50R	3	9	50	4	2
N65QSX2104	1.0	0.50R	3	9	75	4	2
N65QSX2105	1.0	0.50R	3	12	50	4	2
N65QSX2106	1.0	0.50R	3	12	75	4	2
N65QSX2107	1.5	0.75R	4	9	50	4	2
N65QSX2108	1.5	0.75R	4	9	75	4	2
N65QSX2109	1.5	0.75R	4	12	50	4	2
N65QSX2110	1.5	0.75R	4	12	75	4	2
N65QSX2111	1.5	0.75R	4	15	50	4	2
N65QSX2112	1.5	0.75R	4	15	75	4	2
N65QSX2113	2.0	1.00R	6	9	50	4	2
N65QSX2114	2.0	1.00R	6	9	75	4	2
N65QSX2115	2.0	1.00R	6	12	50	4	2
N65QSX2116	2.0	1.00R	6	12	75	4	2
N65QSX2117	2.0	1.00R	6	15	50	4	2
N65QSX2118	2.0	1.00R	6	15	75	4	2
N65QSX2119	2.5	1.25R	7	12	50	4	2
N65QSX2120	2.5	1.25R	7	12	75	4	2
N65QSX2121	2.5	1.25R	7	16	50	4	2
N65QSX2122	2.5	1.25R	7	16	75	4	2
N65QSX2123	3.0	1.50R	9	15	50	4	2
N65QSX2124	3.0	1.50R	9	15	75	4	2
N65QSX2125	3.0	1.50R	9	20	50	4	2
N65QSX2126	3.0	1.50R	9	20	75	4	2
N65QSX2127	4.0	2.00R	10	20	50	4	2
N65QSX2128	4.0	2.00R	10	20	75	4	2
N65QSX2129	4.0	2.00R	10	25	75	4	2
N65QSX2130	4.0	2.00R	10	20	50	4	2
N65QSX2131	4.0	2.00R	10	20	75	4	2
N65QSX2132	4.0	2.00R	10	25	75	4	2

N650 deep groove cutter Series



Tungsten steel 4 flutes deep hook ballnose milling cutter

钨钢四刃深勾标准球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material is HRC65;
适合模具加工，加工材料硬度HRC65;

The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨，产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L2	L	d	T
N65QSX4101	1.0	0.50R	3	6	50	4	4
N65QSX4102	1.0	0.50R	3	6	75	4	4
N65QSX4103	1.0	0.50R	3	9	50	4	4
N65QSX4104	1.0	0.50R	3	9	75	4	4
N65QSX4105	1.0	0.50R	3	12	50	4	4
N65QSX4106	1.0	0.50R	3	12	75	4	4
N65QSX4107	1.5	0.75R	4	9	50	4	4
N65QSX4108	1.5	0.75R	4	9	75	4	4
N65QSX4109	1.5	0.75R	4	12	50	4	4
N65QSX4110	1.5	0.75R	4	12	75	4	4
N65QSX4111	1.5	0.75R	4	15	50	4	4
N65QSX4112	1.5	0.75R	4	15	75	4	4
N65QSX4113	2.0	1.00R	6	9	50	4	4
N65QSX4114	2.0	1.00R	6	9	75	4	4
N65QSX4115	2.0	1.00R	6	12	50	4	4
N65QSX4116	2.0	1.00R	6	12	75	4	4
N65QSX4117	2.0	1.00R	6	15	50	4	4
N65QSX4118	2.0	1.00R	6	15	75	4	4
N65QSX4119	2.5	1.25R	7	12	50	4	4
N65QSX4120	2.5	1.25R	7	12	75	4	4
N65QSX4121	2.5	1.25R	7	16	50	4	4
N65QSX4122	2.5	1.25R	7	16	75	4	4
N65QSX4123	3.0	1.50R	9	15	50	4	4
N65QSX4124	3.0	1.50R	9	15	75	4	4
N65QSX4125	3.0	1.50R	9	20	50	4	4
N65QSX4126	3.0	1.50R	9	20	75	4	4
N65QSX4127	4.0	2.00R	10	20	50	4	4
N65QSX4128	4.0	2.00R	10	20	75	4	4
N65QSX4129	4.0	2.00R	10	25	75	4	4
N65QSX4130	4.0	2.00R	10	20	50	4	4
N65QSX4131	4.0	2.00R	10	20	75	4	4
N65QSX4132	4.0	2.00R	10	25	75	4	4

Recommended Cutting Conditions

推荐切削参数

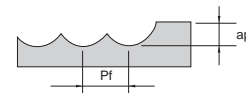
Working material	Hardened steel (HRC40-50 SKT、SKD)		Stainless steel (HRC25-30 SUS)		Cast iron (HRC25-30 HT250、 QT550)		Non-ferrous metal (AL、ADC、CU)	
Vc	60-100(m/min)		70-100(m/min)		80-120(m/min)		300-600(m/min)	
Diameter	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)
1.0mm	22,000	0.010	2,700	0.010	31,000	0.013	95,000	0.013
1.5mm	14,000	0.010	18,000	0.011	2,100	0.014	63,000	0.016
2.0mm	11,000	0.012	13,500	0.012	16,000	0.015	47,000	0.017
2.5mm	8,900	0.013	10,800	0.012	12,700	0.016	38,000	0.018
3.0mm	7,400	0.014	9,000	0.013	10,600	0.017	31,000	0.022
4.0mm	5,500	0.018	6,700	0.014	8,000	0.023	23,000	0.030
5.0mm	4,500	0.020	5,400	0.016	6,300	0.025	19,000	0.040
6.0mm	3,700	0.027	4,500	0.021	5,300	0.035	16,000	0.045
7.0mm	3,200	0.030	3,800	0.025	4,500	0.040	136,000	0.050
8.0mm	2,700	0.036	3,300	0.028	4,000	0.046	12,000	0.060
9.0mm	2,500	0.400	3,000	0.030	3,500	0.050	10,600	0.075
10.0mm	2,200	0.050	2,700	0.040	3,100	0.066	9,500	0.092
12.0mm	1,800	0.060	2,200	0.048	2,600	0.079	7,900	0.110
14.0mm	1,600	0.070	1,900	0.052	2,200	0.090	6,800	0.130
16.0mm	1,400	0.080	1,600	0.060	2,000	0.110	5,900	0.150
18.0mm	1,200	0.090	1,500	0.070	1,700	0.120	5,300	0.170
20.0mm	1,100	0.100	1,200	0.080	1,600	0.130	4,700	0.180

Milling Amount (mm)



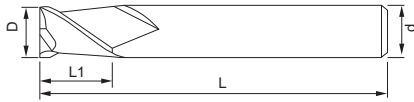
ap	ae	ap	ae	ap	ae
1.5D	0.05D	1.5D	0.03D	1.0D	0.02D
aeMax ≤ 1.0mm		aeMax ≤ 0.5mm		aeMax ≤ 0.5mm	

	ap	Pf
R ≤ 8	0.02D	0.1D
R > 8	0.32mm	0.1D



Tungsten steel 2flutes flat milling cutter

钨钢二刃标准平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛, HRC60-68均可加工, 属于通用型材料加工, 如钢、铸铁、不锈钢、钛合金和其它非铁金属;

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

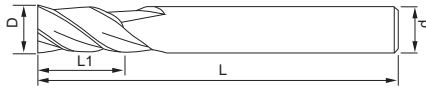
Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N68PPX2101	1.0	3	50	4	2
N68PPX2102	1.0	4	75	4	2
N68PPX2103	1.5	4.5	50	4	2
N68PPX2104	1.5	6	75	4	2
N68PPX2105	2.0	6	50	4	2
N68PPX2106	2.0	8	75	4	2
N68PPX2107	2.5	7.5	50	4	2
N68PPX2108	2.5	10	75	4	2
N68PPX2109	3.0	9	50	4	2
N68PPX2110	3.0	12	75	4	2
N68PPX2111	4.0	12	50	4	2
N68PPX2112	4.0	16	75	4	2
N68PPX2113	4.0	16	100	4	2
N68PPX2114	5.0	15	50	6	2
N68PPX2115	5.0	18	75	6	2
N68PPX2116	5.0	18	100	6	2
N68PPX2117	6.0	18	50	6	2
N68PPX2118	6.0	22	75	6	2
N68PPX2119	6.0	22	100	6	2
N68PPX2120	8.0	25	60	8	2
N68PPX2121	8.0	25	75	8	2
N68PPX2122	8.0	30	100	8	2
N68PPX2123	10.0	30	75	10	2
N68PPX2124	10.0	30	100	10	2
N68PPX2125	12.0	30	75	12	2
N68PPX2126	12.0	35	100	12	2
N68PPX2127	14.0	40	100	14	2
N68PPX2128	16.0	45	100	16	2
N68PPX2129	18.0	45	100	18	2
N68PPX2130	20.0	48	100	20	2



Tungsten steel 4flutes flat milling cutter

钨钢四刃标准平铣刀



Material



Processing graphics



Suitable for finishing and rough processing. The special coating has excellent wear resistance which can reduce friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;

应用广泛，HRC60-68均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

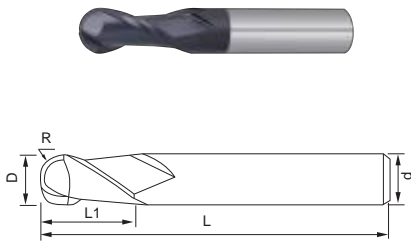
Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N68PPX4101	1.0	3	50	4	4
N68PPX4102	1.0	4	75	4	4
N68PPX4103	1.5	4.5	50	4	4
N68PPX4104	1.5	6	75	4	4
N68PPX4105	2.0	6	50	4	4
N68PPX4106	2.0	8	75	4	4
N68PPX4107	2.5	7.5	50	4	4
N68PPX4108	2.5	10	75	4	4
N68PPX4109	3.0	9	50	4	4
N68PPX4110	3.0	12	75	4	4
N68PPX4111	4.0	12	50	4	4
N68PPX4112	4.0	16	75	4	4
N68PPX4113	4.0	16	100	4	4
N68PPX4114	5.0	15	50	6	4
N68PPX4115	5.0	18	75	6	4
N68PPX4116	5.0	18	100	6	4
N68PPX4117	6.0	18	50	6	4
N68PPX4118	6.0	22	75	6	4
N68PPX4119	6.0	22	100	6	4
N68PPX4120	8.0	25	60	8	4
N68PPX4121	8.0	25	75	8	4
N68PPX4122	8.0	30	100	8	4
N68PPX4123	10.0	30	75	10	4
N68PPX4124	10.0	30	100	10	4
N68PPX4125	12.0	30	75	12	4
N68PPX4126	12.0	35	100	12	4
N68PPX4127	14.0	40	100	14	4
N68PPX4128	16.0	45	100	16	4
N68PPX4129	18.0	45	100	18	4
N68PPX4130	20.0	48	100	20	4

Tungsten steel 2flutes ballnose milling cutter

钨钢二刃标准球铣刀



Material



Processing graphics



Suitable for mould processing, special coating has excellent wear resistance, reducing friction coefficient;
适合模具加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛，HRC60-68均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

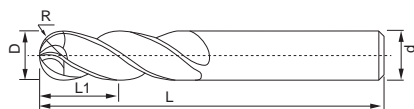
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N68QPX2101	1.0	0.50R	2	50	4	2
N68QPX2102	1.0	0.50R	2	75	4	2
N68QPX2103	1.5	0.75R	3	50	4	2
N68QPX2104	1.5	0.75R	3	75	4	2
N68QPX2105	2.0	1.00R	4	50	4	2
N68QPX2106	2.0	1.00R	4	75	4	2
N68QPX2107	2.5	1.25R	5	50	4	2
N68QPX2108	2.5	1.25R	5	75	4	2
N68QPX2109	3.0	1.50R	6	50	4	2
N68QPX2110	3.0	1.50R	6	75	4	2
N68QPX2111	4.0	2.00R	8	50	4	2
N68QPX2112	4.0	2.00R	8	75	4	2
N68QPX2113	4.0	2.00R	8	100	4	2
N68QPX2114	5.0	2.50R	10	50	6	2
N68QPX2115	5.0	2.50R	10	75	6	2
N68QPX2116	5.0	2.50R	10	100	6	2
N68QPX2117	6.0	3.00R	12	50	6	2
N68QPX2118	6.0	3.00R	12	75	6	2
N68QPX2119	6.0	3.00R	12	100	6	2
N68QPX2120	8.0	4.00R	16	60	8	2
N68QPX2121	8.0	4.00R	16	75	8	2
N68QPX2122	8.0	4.00R	16	100	8	2
N68QPX2123	10.0	5.00R	20	75	10	2
N68QPX2124	10.0	5.00R	20	100	10	2
N68QPX2125	12.0	6.00R	24	75	12	2
N68QPX2126	12.0	6.00R	24	100	12	2
N68QPX2127	14.0	7.00R	28	100	14	2
N68QPX2128	16.0	8.00R	32	100	16	2
N68QPX2129	20.0	10.0R	40	100	20	2

Tungsten steel 4flutes ballnose milling cutter

钨钢四刃标准球铣刀

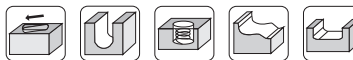


Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for mould processing, special coating has excellent wear resistance, reducing friction coefficient;
适合模具加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

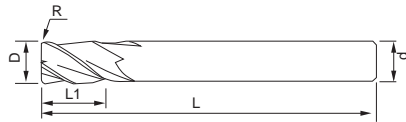
It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals.
应用广泛，HRC60-68均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Code No.	D	R	L1	L	d	T
N68QPX4101	1.0	0.50R	2	50	4	4
N68QPX4101	1.5	0.75R	3	50	4	4
N68QPX4101	2.0	1.00R	4	50	4	4
N68QPX4101	2.5	1.25R	5	50	4	4
N68QPX4101	3.0	1.50R	6	50	4	4
N68QPX4101	4.0	2.00R	8	50	4	4
N68QPX4101	4.0	2.00R	8	75	4	4
N68QPX4101	4.0	2.00R	8	100	4	4
N68QPX4101	5.0	2.50R	10	50	6	4
N68QPX4101	5.0	2.50R	10	75	6	4
N68QPX4101	5.0	2.50R	10	100	6	4
N68QPX4101	6.0	3.00R	12	50	6	4
N68QPX4101	6.0	3.00R	12	75	6	4
N68QPX4101	6.0	3.00R	12	100	6	4
N68QPX4101	8.0	4.00R	16	60	8	4
N68QPX4101	8.0	4.00R	16	75	8	4
N68QPX4101	8.0	4.00R	16	100	8	4
N68QPX4101	10.0	5.00R	20	75	10	4
N68QPX4101	10.0	5.00R	20	100	10	4
N68QPX4101	12.0	6.00R	24	75	12	4
N68QPX4101	12.0	6.00R	24	100	12	4
N68QPX4101	14.0	7.00R	28	100	14	4
N68QPX4101	16.0	8.00R	32	100	16	4
N68QPX4101	20.0	10.0R	40	100	20	4

Tungsten steel 4flutes corner radius milling cutter

钨钢四刃标准圆鼻铣刀



Material



Processing graphics



Suitable for mould processing, special coating has excellent wear resistance, reducing friction coefficient;
适合模具加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛, HRC60-68均可加工, 属于通用型材料加工, 如钢、铸铁、不锈钢、钛合金和其它非铁金属;

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N68YPX4101	1.0	0.1R	3	50	4	4
N68YPX4102	1.0	0.2R	3	50	4	4
N68YPX4103	1.5	0.1R	4.5	50	4	4
N68YPX4104	1.5	0.2R	4.5	50	4	4
N68YPX4105	1.5	0.5R	4.5	50	4	4
N68YPX4106	2.0	0.1R	6	50	4	4
N68YPX4107	2.0	0.2R	6	50	4	4
N68YPX4108	2.0	0.3R	6	50	4	4
N68YPX4109	2.0	0.5R	6	50	4	4
N68YPX4110	2.5	0.1R	7.5	50	4	4
N68YPX4111	2.5	0.2R	7.5	50	4	4
N68YPX4112	2.5	0.3R	7.5	50	4	4
N68YPX4113	2.5	0.5R	7.5	50	4	4
N68YPX4114	3.0	0.2R	9	50	4	4
N68YPX4115	3.0	0.3R	9	50	4	4
N68YPX4116	3.0	0.5R	9	50	4	4
N68YPX4117	3.0	1.0R	9	50	4	4
N68YPX4118	4.0	0.2R	12	50	4	4
N68YPX4119	4.0	0.3R	12	50	4	4
N68YPX4120	4.0	0.5R	12	50	4	4
N68YPX4121	4.0	1.0R	12	50	4	4
N68YPX4122	4.0	1.5R	12	50	4	4
N68YPX4123	5.0	0.2R	13	50	6	4
N68YPX4124	5.0	0.5R	13	50	6	4
N68YPX4125	5.0	1.0R	13	50	6	4
N68YPX4126	6.0	0.2R	15	50	6	4
N68YPX4127	6.0	0.3R	15	50	6	4
N68YPX4128	6.0	0.5R	15	50	6	4
N68YPX4129	6.0	1.0R	15	50	6	4
N68YPX4130	6.0	1.5R	15	50	6	4
N68YPX4131	6.0	2.0R	15	50	6	4
N68YPX4132	8.0	0.2R	20	60	8	4
N68YPX4133	8.0	0.3R	20	60	8	4
N68YPX4134	8.0	0.5R	20	60	8	4
N68YPX4135	8.0	1.0R	20	60	8	4
N68YPX4136	8.0	1.5R	20	60	8	4

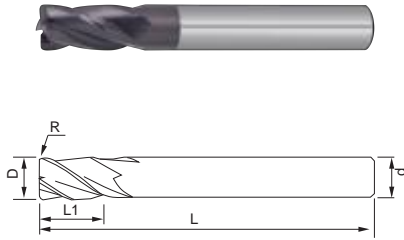
Tungsten steel 4flutes corner radius milling cutter

钨钢四刃标准圆鼻铣刀

Code No.	D	R	L1	L	d	T
N68YPX4137	8.0	2.0R	20	60	8	4
N68YPX4138	10.0	0.2R	25	75	10	4
N68YPX4139	10.0	0.3R	25	75	10	4
N68YPX4140	10.0	0.5R	25	75	10	4
N68YPX4141	10.0	1.0R	25	75	10	4
N68YPX4142	10.0	1.5R	25	75	10	4
N68YPX4143	10.0	2.0R	25	75	10	4
N68YPX4144	12.0	0.5R	30	75	12	4
N68YPX4145	12.0	1.0R	30	75	12	4
N68YPX4146	12.0	1.5R	30	75	12	4
N68YPX4147	12.0	2.0R	30	75	12	4
N68YPX4148	14.0	0.5R	40	100	14	4
N68YPX4149	14.0	1.0R	40	100	14	4
N68YPX4150	16.0	0.5R	45	100	16	4
N68YPX4151	16.0	1.0R	45	100	16	4
N68YPX4152	20.0	0.5R	45	100	18	4
N68YPX4153	20.0	1.0R	45	100	18	4

Tungsten steel 4flutes long corner radius milling cutter

钨钢四刃加长圆鼻铣刀



Material



Processing graphics



Suitable for mould processing, special coating has excellent wear resistance, reducing friction coefficient;
适合模具加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛，HRC60-68均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

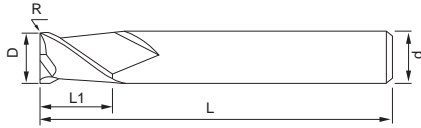
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
N68YPX4154	1.0	0.2R	4	75	4	4
N68YPX4155	1.5	0.2R	6	75	4	4
N68YPX4156	2.0	0.2R	8	75	4	4
N68YPX4157	3.0	0.2R	12	75	4	4
N68YPX4158	4.0	0.2R	16	75	4	4
N68YPX4159	4.0	0.2R	16	100	4	4
N68YPX4160	4.0	0.5R	16	75	4	4
N68YPX4161	4.0	0.5R	16	100	4	4
N68YPX4162	5.0	0.2R	18	75	6	4
N68YPX4163	5.0	0.2R	18	100	6	4
N68YPX4164	5.0	0.5R	18	75	6	4
N68YPX4165	5.0	0.5R	18	100	6	4
N68YPX4166	6.0	0.2R	20	75	6	4
N68YPX4167	6.0	0.2R	20	100	6	4
N68YPX4168	6.0	0.5R	20	75	6	4
N68YPX4169	6.0	0.5R	20	100	6	4
N68YPX4170	6.0	1.0R	20	75	6	4
N68YPX4171	6.0	1.0R	20	100	6	4
N68YPX4172	8.0	0.2R	25	75	8	4
N68YPX4173	8.0	0.2R	30	100	8	4
N68YPX4174	8.0	0.5R	25	75	8	4
N68YPX4175	8.0	0.5R	30	100	8	4
N68YPX4176	8.0	1.0R	25	75	8	4
N68YPX4177	8.0	1.0R	30	100	8	4
N68YPX4178	10.0	0.2R	30	100	10	4
N68YPX4179	10.0	0.5R	30	100	10	4
N68YPX4180	10.0	1.0R	30	100	10	4
N68YPX4181	12.0	0.5R	35	100	12	4
N68YPX4182	12.0	1.0R	35	100	12	4

Tungsten steel 2flutes corner radius milling cutter

钨钢二刃标准圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for mould processing, special coating has excellent wear resistance, reducing friction coefficient;
适合模具加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛, HRC60-68均可加工, 属于通用型材料加工, 如钢、铸铁、不锈钢、钛合金和其它非铁金属;

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Code No.	D	R	L1	L	d	T
N68YPX2101	1.0	0.1R	3	50	4	2
N68YPX2102	1.0	0.2R	3	50	4	2
N68YPX2103	1.5	0.1R	4.5	50	4	2
N68YPX2104	1.5	0.2R	4.5	50	4	2
N68YPX2105	1.5	0.5R	4.5	50	4	2
N68YPX2106	2.0	0.1R	6	50	4	2
N68YPX2107	2.0	0.2R	6	50	4	2
N68YPX2108	2.0	0.3R	6	50	4	2
N68YPX2109	2.0	0.5R	6	50	4	2
N68YPX2110	2.5	0.1R	7.5	50	4	2
N68YPX2111	2.5	0.2R	7.5	50	4	2
N68YPX2112	2.5	0.3R	7.5	50	4	2
N68YPX2113	2.5	0.5R	7.5	50	4	2
N68YPX2114	3.0	0.2R	9	50	4	2
N68YPX2115	3.0	0.3R	9	50	4	2
N68YPX2116	3.0	0.5R	9	50	4	2
N68YPX2117	3.0	1.0R	9	50	4	2
N68YPX2118	4.0	0.2R	12	50	4	2
N68YPX2119	4.0	0.3R	12	50	4	2
N68YPX2120	4.0	0.5R	12	50	4	2
N68YPX2121	4.0	1.0R	12	50	4	2
N68YPX2122	4.0	1.5R	12	50	4	2
N68YPX2123	5.0	0.2R	13	50	6	2
N68YPX2124	5.0	0.5R	13	50	6	2
N68YPX2125	5.0	1.0R	13	50	6	2
N68YPX2126	6.0	0.2R	15	50	6	2
N68YPX2127	6.0	0.3R	15	50	6	2
N68YPX2128	6.0	0.5R	15	50	6	2
N68YPX2129	6.0	1.0R	15	50	6	2
N68YPX2130	6.0	1.5R	15	50	6	2
N68YPX2131	6.0	2.0R	15	50	6	2
N68YPX2132	8.0	0.2R	20	60	8	2
N68YPX2133	8.0	0.3R	20	60	8	2
N68YPX2134	8.0	0.5R	20	60	8	2
N68YPX2135	8.0	1.0R	20	60	8	2
N68YPX2136	8.0	1.5R	20	60	8	2

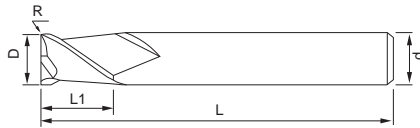
Tungsten steel 2flutes corner radiuse milling cutter

钨钢二刃标准圆鼻铣刀

Code No.	D	R	L1	L	d	T
N68YPX2137	8.0	2.0R	20	60	8	2
N68YPX2138	10.0	0.2R	25	75	10	2
N68YPX2139	10.0	0.3R	25	75	10	2
N68YPX2140	10.0	0.5R	25	75	10	2
N68YPX2141	10.0	1.0R	25	75	10	2
N68YPX2142	10.0	1.5R	25	75	10	2
N68YPX2143	10.0	2.0R	25	75	10	2
N68YPX2144	12.0	0.5R	30	75	12	2
N68YPX2145	12.0	1.0R	30	75	12	2
N68YPX2146	12.0	1.5R	30	75	12	2
N68YPX2147	12.0	2.0R	30	75	12	2
N68YPX2148	14.0	0.5R	40	100	14	2
N68YPX2149	14.0	1.0R	40	100	14	2
N68YPX2150	16.0	0.5R	45	100	16	2
N68YPX2151	16.0	1.0R	45	100	16	2
N68YPX2152	20.0	0.5R	45	100	18	2
N68YPX2153	20.0	1.0R	45	100	18	2

Tungsten steel 2flutes long corner radius milling cutter

钨钢二刃加长圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for mould processing, special coating has excellent wear resistance, reducing friction coefficient;
适合模具加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

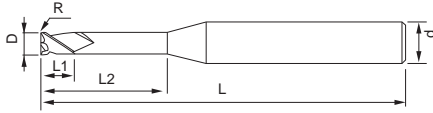
It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals.
应用广泛，HRC60-68均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Code No.	D	R	L1	L	d	T
N68YPX2154	1.0	0.2R	4	75	4	2
N68YPX2155	1.5	0.2R	6	75	4	2
N68YPX2156	2.0	0.2R	8	75	4	2
N68YPX2157	3.0	0.2R	12	75	4	2
N68YPX2158	4.0	0.2R	16	75	4	2
N68YPX2159	4.0	0.2R	16	100	4	2
N68YPX2160	4.0	0.5R	16	75	4	2
N68YPX2161	4.0	0.5R	16	100	4	2
N68YPX2162	5.0	0.2R	18	75	6	2
N68YPX2163	5.0	0.2R	18	100	6	2
N68YPX2164	5.0	0.5R	18	75	6	2
N68YPX2165	5.0	0.5R	18	100	6	2
N68YPX2166	6.0	0.2R	20	75	6	2
N68YPX2167	6.0	0.2R	20	100	6	2
N68YPX2168	6.0	0.5R	20	75	6	2
N68YPX2169	6.0	0.5R	20	100	6	2
N68YPX2170	6.0	1.0R	20	75	6	2
N68YPX2171	6.0	1.0R	20	100	6	2
N68YPX2172	8.0	0.2R	25	75	8	2
N68YPX2173	8.0	0.2R	30	100	8	2
N68YPX2174	8.0	0.5R	25	75	8	2
N68YPX2175	8.0	0.5R	30	100	8	2
N68YPX2176	8.0	1.0R	25	75	8	2
N68YPX2177	8.0	1.0R	30	100	8	2
N68YPX2178	10.0	0.2R	30	100	10	2
N68YPX2179	10.0	0.5R	30	100	10	2
N68YPX2180	10.0	1.0R	30	100	10	2
N68YPX2181	12.0	0.5R	35	100	12	2
N68YPX2182	12.0	1.0R	35	100	12	2

Tungsten steel 2flutes long neck deep groove corner radius milling cutter

钨钢二刃长颈深沟圆鼻铣刀



Material



Processing graphics



Suitable for mould processing, special coating has excellent wear resistance, reducing friction coefficient;
适合模具加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals;
应用广泛, HRC60-68均可加工, 属于通用型材料加工, 如钢、铸铁、不锈钢、钛合金和其它非铁金属;

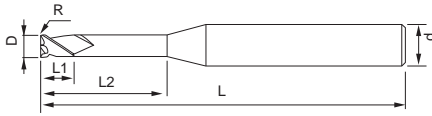
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L2	L	d	T
N68YPX2183	1.0	0.2R	3	6	50	4	2
N68YPX2184	1.0	0.2R	3	9	50	4	2
N68YPX2185	1.0	0.2R	3	12	50	4	2
N68YPX2186	1.5	0.2R	4	9	50	4	2
N68YPX2187	1.5	0.2R	4	12	50	4	2
N68YPX2188	1.5	0.2R	4	15	50	4	2
N68YPX2189	2.0	0.2R	6	9	50	4	2
N68YPX2190	2.0	0.2R	6	12	50	4	2
N68YPX2191	2.0	0.2R	6	15	50	4	2
N68YPX2192	2.5	0.2R	7	12	50	4	2
N68YPX2193	2.5	0.2R	7	16	50	4	2
N68YPX2194	3.0	0.2R	9	15	50	4	2
N68YPX2195	3.0	0.2R	9	20	50	4	2
N68YPX2196	4.0	0.2R	10	20	50	4	2
N68YPX2197	4.0	0.2R	10	25	75	4	2
N68YPX2198	4.0	0.5R	10	20	50	4	2
N68YPX2199	4.0	0.5R	10	25	75	4	2
N68YPX2200	5.0	0.2R	12	20	50	6	2
N68YPX2201	5.0	0.2R	12	25	75	6	2
N68YPX2202	5.0	0.5R	12	20	50	6	2
N68YPX2203	5.0	0.5R	12	25	75	6	2
N68YPX2204	6.0	0.2R	12	30	75	6	2
N68YPX2205	6.0	0.2R	12	30	100	6	2
N68YPX2206	6.0	0.5R	12	30	75	6	2
N68YPX2207	6.0	0.5R	12	30	100	6	2
N68YPX2208	6.0	1.0R	12	30	75	6	2
N68YPX2209	6.0	1.0R	12	30	100	6	2
N68YPX2210	8.0	0.5R	16	40	75	8	2
N68YPX2211	8.0	0.5R	16	40	100	8	2
N68YPX2212	8.0	1.0R	16	40	75	8	2
N68YPX2213	8.0	1.0R	16	40	100	8	2
N68YPX2214	10.0	0.5R	20	50	100	10	2
N68YPX2215	10.0	1.0R	20	50	100	10	2
N68YPX2216	12.0	0.5R	24	50	100	12	2
N68YPX2217	12.0	1.0R	24	50	100	12	2

Tungsten steel 4flutes long neck deep groove corner radius milling cutter

钨钢四刃长颈深沟圆鼻铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for mould processing, special coating has excellent wear resistance, reducing friction coefficient;
适合模具加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed HRC 60-68. It belongs to general material processing, such as steel, cast iron, stainless steel, titanium alloy and other non-ferrous metals.
应用广泛，HRC60-68均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

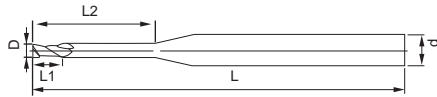
Code No.	D	R	L1	L2	L	d	T
N68YPX4183	1.0	0.2R	3	6	50	4	4
N68YPX4184	1.0	0.2R	3	9	50	4	4
N68YPX4185	1.0	0.2R	3	12	50	4	4
N68YPX4186	1.5	0.2R	4	9	50	4	4
N68YPX4187	1.5	0.2R	4	12	50	4	4
N68YPX4188	1.5	0.2R	4	15	50	4	4
N68YPX4189	2.0	0.2R	6	9	50	4	4
N68YPX4190	2.0	0.2R	6	12	50	4	4
N68YPX4191	2.0	0.2R	6	15	50	4	4
N68YPX4192	2.5	0.2R	7	12	50	4	4
N68YPX4193	2.5	0.2R	7	16	50	4	4
N68YPX4194	3.0	0.2R	9	15	50	4	4
N68YPX4195	3.0	0.2R	9	20	50	4	4
N68YPX4196	4.0	0.2R	10	20	50	4	4
N68YPX4197	4.0	0.2R	10	25	75	4	4
N68YPX4198	4.0	0.5R	10	20	50	4	4
N68YPX4199	4.0	0.5R	10	25	75	4	4
N68YPX4200	5.0	0.2R	12	20	50	6	4
N68YPX4201	5.0	0.2R	12	25	75	6	4
N68YPX4202	5.0	0.5R	12	20	50	6	4
N68YPX4203	5.0	0.5R	12	25	75	6	4
N68YPX4204	6.0	0.2R	12	30	75	6	4
N68YPX4205	6.0	0.2R	12	30	100	6	4
N68YPX4206	6.0	0.5R	12	30	75	6	4
N68YPX4207	6.0	0.5R	12	30	100	6	4
N68YPX4208	6.0	1.0R	12	30	75	6	4
N68YPX4209	6.0	1.0R	12	30	100	6	4
N68YPX4210	8.0	0.5R	16	40	75	8	4
N68YPX4211	8.0	0.5R	16	40	100	8	4
N68YPX4212	8.0	1.0R	16	40	75	8	4
N68YPX4213	8.0	1.0R	16	40	100	8	4
N68YPX4214	10.0	0.5R	20	50	100	10	4
N68YPX4215	10.0	1.0R	20	50	100	10	4
N68YPX4216	12.0	0.5R	24	50	100	12	4
N68YPX4217	12.0	1.0R	24	50	100	12	4

N680 deep groove cutter Series



Tungsten steel 2 flutes deep hook flat milling cutter

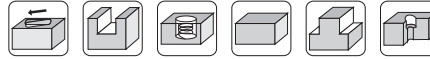
钨钢二刃深勾标准平铣刀



Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工, 特殊涂层具有优异的耐磨性, 减少了摩擦系数;

It is widely used, Can be processed the materials below HRC68, It belongs to general material processing, such as steel, cast iron, Titanium alloy, and heat-resistant alloy;
应用广泛, HRC68以下材料加工, 属于通用型材料加工, 如钢、铸铁、钛合金、耐热合金和其它非铁金属;

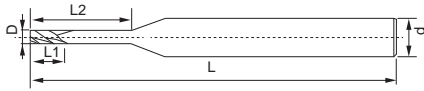
Design of unequal spiral angle could reduce vibration during processing;
不等距螺旋角设计, 减少加工过程中的震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L2	L	d	T
N68PSX2101	1.0	3	6	50	4	2
N68PSX2102	1.0	3	6	75	4	2
N68PSX2103	1.0	3	9	50	4	2
N68PSX2104	1.0	3	9	75	4	2
N68PSX2105	1.0	3	12	50	4	2
N68PSX2106	1.0	3	12	75	4	2
N68PSX2107	1.5	4	9	50	4	2
N68PSX2108	1.5	4	9	75	4	2
N68PSX2109	1.5	4	12	50	4	2
N68PSX2110	1.5	4	12	75	4	2
N68PSX2111	1.5	4	15	50	4	2
N68PSX2112	1.5	4	15	75	4	2
N68PSX2113	2.0	6	9	50	4	2
N68PSX2114	2.0	6	9	75	4	2
N68PSX2115	2.0	6	12	50	4	2
N68PSX2116	2.0	6	12	75	4	2
N68PSX2117	2.0	6	15	50	4	2
N68PSX2118	2.0	6	15	75	4	2
N68PSX2119	2.5	7	12	50	4	2
N68PSX2120	2.5	7	12	75	4	2
N68PSX2121	2.5	7	16	50	4	2
N68PSX2122	2.5	7	16	75	4	2
N68PSX2123	3.0	9	15	50	4	2
N68PSX2124	3.0	9	15	75	4	2
N68PSX2125	3.0	9	20	50	4	2
N68PSX2126	3.0	9	20	75	4	2
N68PSX2127	4.0	10	20	50	4	2
N68PSX2128	4.0	10	20	75	4	2
N68PSX2129	4.0	10	25	75	4	2
N68PSX2130	4.0	10	20	50	4	2
N68PSX2131	4.0	10	20	75	4	2
N68PSX2132	4.0	10	25	75	4	2

Tungsten steel 4 flutes deep hook flat milling cutter

钨钢四刃深勾标准平铣刀



Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Material



Processing graphics



In deep cavity processing, adopted by special coatings have excellent wear resistance and reduce friction coefficient;
深型腔加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used. Can be processed the materials below HRC68, It belongs to general material processing, such as steel, cast iron, Titanium alloy, and heat-resistant alloy;
应用广泛，HRC68以下材料加工，属于通用型材料加工，如钢、铸铁、钛合金、耐热合金和其它非铁金属；

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

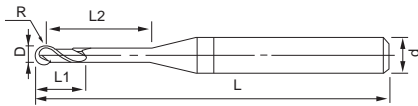
Code No.	D	L1	L2	L	d	T
N68PSX4101	1.0	3	6	50	4	4
N68PSX4102	1.0	3	6	75	4	4
N68PSX4103	1.0	3	9	50	4	4
N68PSX4104	1.0	3	9	75	4	4
N68PSX4105	1.0	3	12	50	4	4
N68PSX4106	1.0	3	12	75	4	4
N68PSX4107	1.5	4	9	50	4	4
N68PSX4108	1.5	4	9	75	4	4
N68PSX4109	1.5	4	12	50	4	4
N68PSX4110	1.5	4	12	75	4	4
N68PSX4111	1.5	4	15	50	4	4
N68PSX4112	1.5	4	15	75	4	4
N68PSX4113	2.0	6	9	50	4	4
N68PSX4114	2.0	6	9	75	4	4
N68PSX4115	2.0	6	12	50	4	4
N68PSX4116	2.0	6	12	75	4	4
N68PSX4117	2.0	6	15	50	4	4
N68PSX4118	2.0	6	15	75	4	4
N68PSX4119	2.5	7	12	50	4	4
N68PSX4120	2.5	7	12	75	4	4
N68PSX4121	2.5	7	16	50	4	4
N68PSX4122	2.5	7	16	75	4	4
N68PSX4123	3.0	9	15	50	4	4
N68PSX4124	3.0	9	15	75	4	4
N68PSX4125	3.0	9	20	50	4	4
N68PSX4126	3.0	9	20	75	4	4
N68PSX4127	4.0	10	20	50	4	4
N68PSX4128	4.0	10	20	75	4	4
N68PSX4129	4.0	10	25	75	4	4
N68PSX4130	4.0	10	20	50	4	4
N68PSX4131	4.0	10	20	75	4	4
N68PSX4132	4.0	10	25	75	4	4

N680 deep groove cutter Series



Tungsten steel 2 flutes deep hook ballnose milling cutter

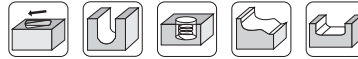
钨钢二刃深勾标准球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应,特殊涂层具有优异的耐磨性,减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料: 钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material is HRC68;
适合模具加工,加工材料硬度HRC68;

The R angle is lapped with high precision, and the product has high precision;

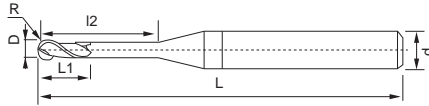
R角经过高精度研磨,产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L2	L	d	T
N68QSX2101	1.0	0.50R	3	6	50	4	2
N68QSX2102	1.0	0.50R	3	6	75	4	2
N68QSX2103	1.0	0.50R	3	9	50	4	2
N68QSX2104	1.0	0.50R	3	9	75	4	2
N68QSX2105	1.0	0.50R	3	12	50	4	2
N68QSX2106	1.0	0.50R	3	12	75	4	2
N68QSX2107	1.5	0.75R	4	9	50	4	2
N68QSX2108	1.5	0.75R	4	9	75	4	2
N68QSX2109	1.5	0.75R	4	12	50	4	2
N68QSX2110	1.5	0.75R	4	12	75	4	2
N68QSX2111	1.5	0.75R	4	15	50	4	2
N68QSX2112	1.5	0.75R	4	15	75	4	2
N68QSX2113	2.0	1.00R	6	9	50	4	2
N68QSX2114	2.0	1.00R	6	9	75	4	2
N68QSX2115	2.0	1.00R	6	12	50	4	2
N68QSX2116	2.0	1.00R	6	12	75	4	2
N68QSX2117	2.0	1.00R	6	15	50	4	2
N68QSX2118	2.0	1.00R	6	15	75	4	2
N68QSX2119	2.5	1.25R	7	12	50	4	2
N68QSX2120	2.5	1.25R	7	12	75	4	2
N68QSX2121	2.5	1.25R	7	16	50	4	2
N68QSX2122	2.5	1.25R	7	16	75	4	2
N68QSX2123	3.0	1.50R	9	15	50	4	2
N68QSX2124	3.0	1.50R	9	15	75	4	2
N68QSX2125	3.0	1.50R	9	20	50	4	2
N68QSX2126	3.0	1.50R	9	20	75	4	2
N68QSX2127	4.0	2.00R	10	20	50	4	2
N68QSX2128	4.0	2.00R	10	20	75	4	2
N68QSX2129	4.0	2.00R	10	25	75	4	2
N68QSX2130	4.0	2.00R	10	20	50	4	2
N68QSX2131	4.0	2.00R	10	20	75	4	2
N68QSX2132	4.0	2.00R	10	25	75	4	2

Tungsten steel 4 flutes deep hook ballnose milling cutter

钨钢四刃深勾标准球铣刀



Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non - ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material is HRC68;
适合模具加工，加工材料硬度HRC68；

The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨，产品精度较高；

Code No.	D	R	L1	L2	L	d	T
N68QSX4101	1.0	0.50R	3	6	50	4	4
N68QSX4102	1.0	0.50R	3	6	75	4	4
N68QSX4103	1.0	0.50R	3	9	50	4	4
N68QSX4104	1.0	0.50R	3	9	75	4	4
N68QSX4105	1.0	0.50R	3	12	50	4	4
N68QSX4106	1.0	0.50R	3	12	75	4	4
N68QSX4107	1.5	0.75R	4	9	50	4	4
N68QSX4108	1.5	0.75R	4	9	75	4	4
N68QSX4109	1.5	0.75R	4	12	50	4	4
N68QSX4110	1.5	0.75R	4	12	75	4	4
N68QSX4111	1.5	0.75R	4	15	50	4	4
N68QSX4112	1.5	0.75R	4	15	75	4	4
N68QSX4113	2.0	1.00R	6	9	50	4	4
N68QSX4114	2.0	1.00R	6	9	75	4	4
N68QSX4115	2.0	1.00R	6	12	50	4	4
N68QSX4116	2.0	1.00R	6	12	75	4	4
N68QSX4117	2.0	1.00R	6	15	50	4	4
N68QSX4118	2.0	1.00R	6	15	75	4	4
N68QSX4119	2.5	1.25R	7	12	50	4	4
N68QSX4120	2.5	1.25R	7	12	75	4	4
N68QSX4121	2.5	1.25R	7	16	50	4	4
N68QSX4122	2.5	1.25R	7	16	75	4	4
N68QSX4123	3.0	1.50R	9	15	50	4	4
N68QSX4124	3.0	1.50R	9	15	75	4	4
N68QSX4125	3.0	1.50R	9	20	50	4	4
N68QSX4126	3.0	1.50R	9	20	75	4	4
N68QSX4127	4.0	2.00R	10	20	50	4	4
N68QSX4128	4.0	2.00R	10	20	75	4	4
N68QSX4129	4.0	2.00R	10	25	75	4	4
N68QSX4130	4.0	2.00R	10	20	50	4	4
N68QSX4131	4.0	2.00R	10	20	75	4	4
N68QSX4132	4.0	2.00R	10	25	75	4	4

Recommended Cutting Conditions

推荐切削参数

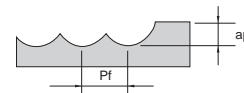
Working material	Hardened steel (HRC65-68 SKT、SKD)		Stainless steel (HRC25-30 SUS)		Cast iron (HRC25-30 HT250、QT550)		Non-ferrous metal (AL、ADC、CU)	
Vc	50-90(m/min)		70-100(m/min)		80-120(m/min)		300-600(m/min)	
Diameter	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)	R.P.M	Fz(mm/r)
1.0mm	19,000	0.010	2,700	0.010	31,000	0.013	95,000	0.013
1.5mm	12,700	0.010	18,000	0.011	2,100	0.014	63,000	0.016
2.0mm	9,500	0.012	13,500	0.012	16,000	0.015	47,000	0.017
2.5mm	7,600	0.013	10,800	0.012	12,700	0.016	38,000	0.018
3.0mm	6,300	0.014	9,000	0.013	10,600	0.017	31,000	0.022
4.0mm	4,700	0.018	6,700	0.014	8,000	0.023	23,000	0.030
5.0mm	3,800	0.020	5,400	0.016	6,300	0.025	19,000	0.040
6.0mm	3,100	0.027	4,500	0.021	5,300	0.035	16,000	0.045
7.0mm	2,700	0.030	3,800	0.025	4,500	0.040	136,000	0.050
8.0mm	2,300	0.036	3,300	0.028	4,000	0.046	12,000	0.060
9.0mm	2,100	0.400	3,000	0.030	3,500	0.050	10,600	0.075
10.0mm	1,900	0.050	2,700	0.040	3,100	0.066	9,500	0.092
12.0mm	1,600	0.060	2,200	0.048	2,600	0.079	7,900	0.110
14.0mm	1,300	0.070	1,900	0.052	2,200	0.090	6,800	0.130
16.0mm	1,200	0.080	1,600	0.060	2,000	0.110	5,900	0.150
18.0mm	1,000	0.090	1,500	0.070	1,700	0.120	5,300	0.170
20.0mm	950	0.100	1,200	0.080	1,600	0.130	4,700	0.180

Milling Amount
(mm)



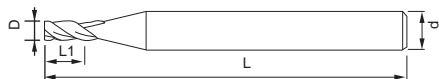
ap	ae	ap	ae	ap	ae
1.5D	0.05D	1.5D	0.03D	1.0D	0.02D
aeMax ≤ 1.0mm		aeMax ≤ 0.5mm		aeMax ≤ 0.5mm	

	ap	Pf
R ≤ 8	0.02D	0.1D
R > 8	0.32mm	0.1D



Tungsten steel 2 flutes micro-diameter flat milling cutter

钨钢微小径二刃标准平铣刀



Material



Processing graphics



Suitable for micro processing and groove processing ,the special coating has excellent wear resistance and reduces friction coefficient;
适应微孔和槽加工，特殊涂层具有优异的耐磨性，减少了摩擦系数;

It is widely used.Can be processed the materials about HRC55 It belongs to general material processing, such as steel, cast iron,Titanium alloy, and heat - resistant alloy;

应用广泛，HRC55均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属;

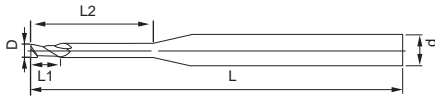
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N55PWX2101	0.2	0.4	50	4	2
N55PWX2102	0.3	0.6	50	4	2
N55PWX2103	0.4	0.8	50	4	2
N55PWX2104	0.5	1.0	50	4	2
N55PWX2105	0.6	1.2	50	4	2
N55PWX2106	0.7	1.4	50	4	2
N55PWX2107	0.8	1.6	50	4	2
N55PWX2108	0.9	1.8	50	4	2

Tungsten steel micro-diameter deep hook 2 flutes ballnose milling cutter

钨钢微小深沟二刃标准平铣刀



Material



Processing graphics



Suitable for micro processing and groove processing ,the special coating has excellent wear resistance and reduces friction coefficient;
适应微孔和槽加工，特殊涂层具有优异的耐磨性，减少了摩擦系数；

It is widely used.Can be processed the materials about HRC55 It belongs to general material processing, such as steel, cast iron,Titanium alloy, and heat - resistant alloy;
应用广泛，HRC55均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属；

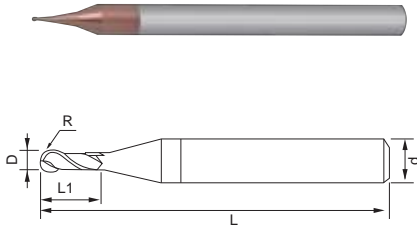
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动；

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L2	L	d	T
N55PWX2109	0.3	0.6	3	50	4	2
N55PWX2110	0.3	0.6	5	50	4	2
N55PWX2111	0.4	0.8	3	50	4	2
N55PWX2112	0.4	0.8	5	50	4	2
N55PWX2113	0.5	1.0	3	50	4	2
N55PWX2114	0.5	1.0	5	50	4	2
N55PWX2115	0.6	0.6	3	50	4	2
N55PWX2116	0.6	0.6	5	50	4	2
N55PWX2117	0.7	1.4	4	50	4	2
N55PWX2118	0.7	1.4	7	50	4	2
N55PWX2119	0.8	1.6	4	50	4	2
N55PWX2120	0.8	1.6	7	50	4	2
N55PWX2121	0.9	1.8	4	50	4	2
N55PWX2122	0.9	1.8	7	50	4	2

Tungsten steel 2 flutes micro-diameter ballnose milling cutter

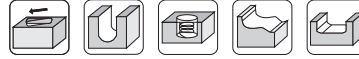
钨钢微小径二刃球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non - ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material is HRC55;
适合模具加工，加工材料硬度HRC55；

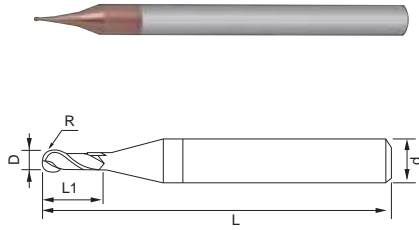
The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨，产品精度较高；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R > 2.5	±0.020

Code No.	D	L1	L	d	T
N55QWX2123	0.10R	0.4	50	4	2
N55QWX2124	0.15R	0.6	50	4	2
N55QWX2125	0.20R	0.8	50	4	2
N55QWX2126	0.25R	1.0	50	4	2
N55QWX2127	0.30R	1.2	50	4	2
N55QWX2128	0.35R	1.4	50	4	2
N55QWX2129	0.40R	1.6	50	4	2
N55QWX2130	0.45R	1.8	50	4	2

Tungsten steel micro-diameter deep hook 2 flutes flat milling cutter

钨钢微小深沟二刃球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属;

Suitable for mould processing, processing material is HRC55;
适合模具加工，加工材料硬度HRC55;

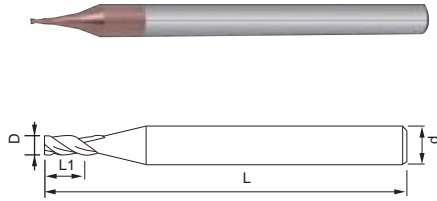
The R angle is lapped with high precision, and the product has high precision;
R角经过高精密度研磨，产品精度较高;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	L1	L	d	T
N55QWX2101	0.15R	0.6	50	4	2
N55QWX2102	0.15R	0.6	50	4	2
N55QWX2103	0.20R	0.8	50	4	2
N55QWX2104	0.20R	0.8	50	4	2
N55QWX2105	0.25R	1.0	50	4	2
N55QWX2106	0.25R	1.0	50	4	2
N55QWX2107	0.30R	0.6	50	4	2
N55QWX2108	0.30R	0.6	50	4	2
N55QWX2109	0.35R	1.4	50	4	2
N55QWX2110	0.35R	1.4	50	4	2
N55QWX2111	0.40R	1.6	50	4	2
N55QWX2112	0.40R	1.6	50	4	2
N55QWX2113	0.45R	1.8	50	4	2
N55QWX2114	0.45R	1.8	50	4	2

Tungsten steel 2 flutes micro-diameter flat milling cutter

钨钢微小径二刃标准平铣刀



Material



Processing graphics



Suitable for micro processing and groove processing ,the special coating has excellent wear resistance and reduces friction coefficient;
适应微孔和槽加工，特殊涂层具有优异的耐磨性，减少了摩擦系数;

It is widely used.Can be processed the materials about HRC65 It belongs to general material processing, such as steel, cast iron,Titanium alloy, and heat-resistant alloy;
应用广泛，HRC65均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属;

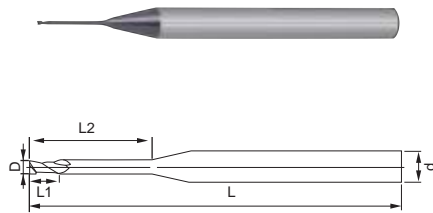
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
N6PWX2101	0.2	0.4	50	4	2
N6PWX2102	0.3	0.6	50	4	2
N6PWX2103	0.4	0.8	50	4	2
N6PWX2104	0.5	1.0	50	4	2
N6PWX2105	0.6	1.2	50	4	2
N6PWX2106	0.7	1.4	50	4	2
N6PWX2107	0.8	1.6	50	4	2
N6PWX2108	0.9	1.8	50	4	2

Tungsten steel 4flutes deep groove corner radius milling cutter

钨钢微小径深沟二刃标准平铣刀



Material



Processing graphics



Suitable for micro processing and groove processing ,the special coating has excellent wear resistance and reduces friction coefficient;
适应微孔和槽加工，特殊涂层具有优异的耐磨性，减少了摩擦系数;

It is widely used,Can be processed the materials about HRC65 It belongs to general material processing, such as steel, cast iron,Titanium alloy, and heat - resistant alloy;
应用广泛，HRC65均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属;

Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动;

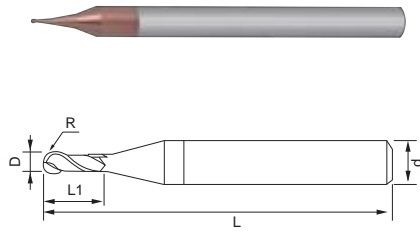
Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L2	L	d	T
N65PWX2109	0.3	0.6	3	50	4	2
N65PWX2110	0.3	0.6	5	50	4	2
N65PWX2111	0.4	0.8	3	50	4	2
N65PWX2112	0.4	0.8	5	50	4	2
N65PWX2113	0.5	1.0	3	50	4	2
N65PWX2114	0.5	1.0	5	50	4	2
N65PWX2115	0.6	0.6	3	50	4	2
N65PWX2116	0.6	0.6	5	50	4	2
N65PWX2117	0.7	1.4	4	50	4	2
N65PWX2118	0.7	1.4	7	50	4	2
N65PWX2119	0.8	1.6	4	50	4	2
N65PWX2120	0.8	1.6	7	50	4	2
N65PWX2121	0.9	1.8	4	50	4	2
N65PWX2122	0.9	1.8	7	50	4	2



Tungsten steel 2 flutes micro-diameter ballnose milling cutter

钨钢微小径二刃球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non - ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material is HRC65;
适合模具加工，加工材料硬度HRC65；

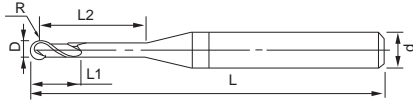
The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨，产品精度较高；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	L1	L	d	T
	0.10R	0.4	50	4	2
N69QWX2101	0.15R	0.6	50	4	2
N69QWX2102	0.20R	0.8	50	4	2
N69QWX2103	0.25R	1.0	50	4	2
N69QWX2104	0.30R	1.2	50	4	2
N69QWX2105	0.35R	1.4	50	4	2
N69QWX2106	0.40R	1.6	50	4	2
N69QWX2107	0.45R	1.8	50	4	2

Tungsten steel micro-diameter deep hook 2 flutes ballnose milling cutter

钨钢微小径深勾二刃球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数；

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属；

Suitable for mould processing, processing material is HRC65;
适合模具加工，加工材料硬度HRC65；

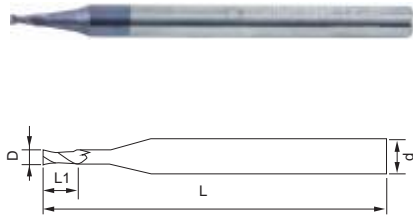
The R angle is lapped with high precision, and the product has high precision;
R角经过高精度研磨，产品精度较高；

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	L1	L2	L	d	T
N68PWX2101	0.15R	0.6	3	50	4	2
N68PWX2102	0.15R	0.6	5	50	4	2
N68PWX2103	0.20R	0.8	3	50	4	2
N68PWX2104	0.20R	0.8	5	50	4	2
N68PWX2105	0.25R	1.0	3	50	4	2
N68PWX2106	0.25R	1.0	5	50	4	2
N68PWX2107	0.30R	0.6	3	50	4	2
N68PWX2108	0.30R	0.6	5	50	4	2
N68PWX2109	0.35R	1.4	4	50	4	2
N68PWX2110	0.35R	1.4	7	50	4	2
N68PWX2111	0.40R	1.6	4	50	4	2
N68PWX2112	0.40R	1.6	7	50	4	2
N68PWX2113	0.45R	1.8	4	50	4	2
N68PWX2114	0.45R	1.8	7	50	4	2

Tungsten steel 2 flutes micro flat milling cutter

钨钢微小径二刃标准平铣刀



Material



Processing graphics



Suitable for micro processing and groove processing ,the special coating has excellent wear resistance and reduces friction coefficient;
适应微孔和槽加工，特殊涂层具有优异的耐磨性，减少了摩擦系数;

It is widely used.Can be processed the materials about HRC68 It belongs to general material processing, such as steel, cast iron,Titanium alloy, and heat - resistant alloy;
应用广泛，HRC68均可加工，属于通用型材料加工，如钢、铸铁、不锈钢、钛合金和其它非铁金属;

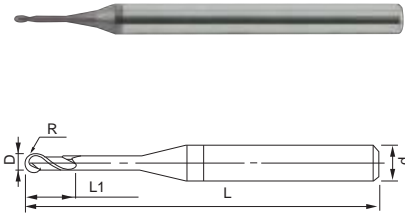
Design of unequal spiral angle could to reduce vibration during processing;
不等距螺旋角设计，减少加工过程中的震动;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	L1	L	d	T
N65PWX2101	0.2	0.4	50	4	2
N65PWX2102	0.3	0.6	50	4	2
N65PWX2103	0.4	0.8	50	4	2
N65PWX2104	0.5	1.0	50	4	2
N65PWX2105	0.6	1.2	50	4	2
N65PWX2106	0.7	1.4	50	4	2
N65PWX2107	0.8	1.6	50	4	2
N65PWX2108	0.9	1.8	50	4	2

Tungsten steel micro-diameter deep hook 2 flutes ballnose milling cutter

钨钢微小径深勾二刃球铣刀



Material



Processing graphics



Suitable for both finishing and rough processing ,the special coating has excellent wear resistance and reduces friction coefficient;
精加工和粗加工都适应，特殊涂层具有优异的耐磨性，减少了摩擦系数;

Suitable materials: steel, cast iron, stainless steel, non-ferrous metal;
适应材料：钢、铸铁、不锈钢、非铁金属;

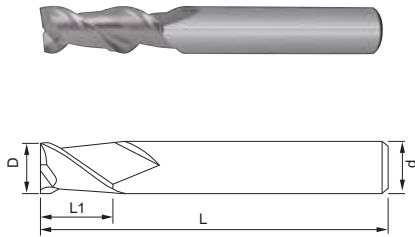
Suitable for mould processing, processing material is HRC68;
适合模具加工，加工材料硬度HRC68;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	L1	L	d	T
68NWX2101	0.10R	0.4	50	4	2
68NWX2102	0.15R	0.6	50	4	2
68NWX2103	0.20R	0.8	50	4	2
68NWX2104	0.25R	1.0	50	4	2
68NWX2105	0.30R	1.2	50	4	2
68NWX2106	0.35R	1.4	50	4	2
68NWX2107	0.40R	1.6	50	4	2
68NWX2108	0.45R	1.8	50	4	2

High polishing 2flutes aluminum alloy flat bottom end mill

高光洁度二刃标准铝用铣刀



Material

N

Processing graphics



High precision cutting , excellent cutting ability of cutting edges;
高精度切削, 具有良好的刃口切削能力;

Cutter types of use:Aluminium alloy、Plastics、wood etc;
适合铝合金、塑料、木头等;

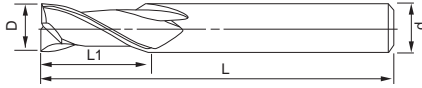
With special edge treatment, the surface finish of aluminium processing is very high,it's very suitable for high silicon aluminium;
刃口特殊处理, 铝加工表面光洁度非常高, 特别适合高硅铝;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
NNLPNX2101	1.0	3	50	4	2
NNLPNX2102	1.5	4	50	4	2
NNLPNX2103	2.0	6	50	4	2
NNLPNX2104	2.5	8	50	4	2
NNLPNX2105	3.0	8	50	4	2
NNLPNX2106	3.5	10	50	4	2
NNLPNX2107	4.0	12	50	4	2
NNLPNX2108	5.0	15	50	6	2
NNLPNX2109	6.0	15	50	6	2
NNLPNX2110	7.0	20	60	8	2
NNLPNX2111	8.0	20	60	8	2
NNLPNX2112	10.0	25	75	10	2
NNLPNX2113	12.0	30	75	12	2
NNLPNX2114	14.0	40	80	14	2
NNLPNX2115	16.0	45	100	16	2
NNLPNX2116	18.0	45	100	18	2
NNLPNX2117	20.0	50	100	20	2

High polishing 3flutes aluminum alloy flat bottom end mill

高光洁度三刃标准铝用铣刀



Material

N

Processing graphics



High precision cutting , excellent cutting ability of cutting edges;
高精度切削, 具有良好的刃口切割能力;

Cutter types of use:Aluminium alloy、Plastics、wood etc;
适合铝合金、塑料、木头等;

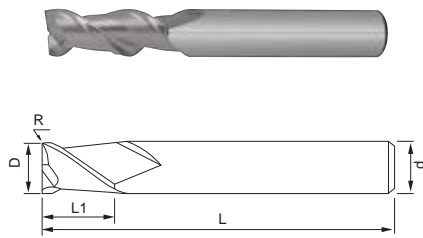
With special edge treatment, the surface finish of aluminium processing is very high, it's very suitable for high silicon aluminium;
刃口特殊处理, 铝加工表面光洁度非常高, 特别适合高硅铝;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	L1	L	d	T
NNLPNX3101	1.0	3	50	4	3
NNLPNX3102	1.5	4	50	4	3
NNLPNX3103	2.0	6	50	4	3
NNLPNX3104	2.5	8	50	4	3
NNLPNX3105	3.0	8	50	4	3
NNLPNX3106	3.5	10	50	4	3
NNLPNX3107	4.0	12	50	4	3
NNLPNX3108	5.0	15	50	6	3
NNLPNX3109	6.0	15	50	6	3
NNLPNX3110	7.0	20	60	8	3
NNLPNX3111	8.0	20	60	8	3
NNLPNX3112	10.0	25	75	10	3
NNLPNX3113	12.0	30	75	12	3
NNLPNX3114	14.0	40	80	14	3
NNLPNX3115	16.0	45	100	16	3
NNLPNX3116	18.0	45	100	18	3
NNLPNX3117	20.0	50	100	20	3

High polishing 2flutes aluminum alloy corner radius end mill

高光洁度二刃标准铝用圆鼻铣刀



Material

N

Processing graphics



High precision cutting, excellent cutting ability of cutting edges;
高精度切削, 具有良好的刃口切割能力;

Cutter types of use: Aluminium alloy, Plastics, wood etc;
适合铝合金、塑料、木头等;

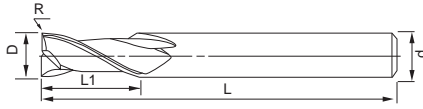
With special edge treatment, the surface finish of aluminium processing is very high, it's very suitable for high silicon aluminium;
刃口特殊处理, 铝加工表面光洁度非常高, 特别适合高硅铝;

Size(mm)	Tolerance(mm)
D≤5.5	+0~-0.015
D>5.5	+0~-0.020

Code No.	D	R	L1	L	d	T
NNLYNX2101	1.0	0.20R	3	50	4	2
NNLYNX2102	1.5	0.20R	4.5	50	4	2
NNLYNX2103	2.0	0.20R	6	50	4	2
NNLYNX2104	3.0	0.20R	9	50	4	2
NNLYNX2105	4.0	0.20R	12	50	4	2
NNLYNX2106	4.0	0.50R	12	50	4	2
NNLYNX2107	5.0	0.20R	13	50	6	2
NNLYNX2108	5.0	0.50R	13	50	6	2
NNLYNX2109	6.0	0.20R	15	50	6	2
NNLYNX2110	6.0	0.50R	15	50	6	2
NNLYNX2111	6.0	1.00R	15	50	6	2
NNLYNX2112	8.0	0.50R	20	60	8	2
NNLYNX2113	8.0	1.00R	20	60	8	2
NNLYNX2114	10.0	0.50R	25	75	10	2
NNLYNX2115	10.0	1.00R	25	75	10	2
NNLYNX2116	12.0	0.50R	30	75	12	2
NNLYNX2117	12.0	1.00R	30	75	12	2
NNLYNX2118	14.0	0.50R	40	100	14	2
NNLYNX2119	16.0	0.50R	45	100	16	2
NNLYNX2120	16.0	1.00R	45	100	16	2
NNLYNX2121	20.0	0.50R	45	100	20	2
NNLYNX2122	20.0	1.00R	45	100	20	2

High polishing 3flutes aluminum alloy corner radius end mill

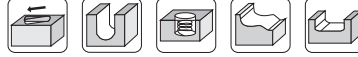
高光洁度三刃标准铝用圆鼻铣刀



Material

N

Processing graphics



High precision cutting , excellent cutting ability of cutting edges;
高精度切削, 具有良好的刃口切割能力;

Cutter types of use: Aluminium alloy、Plastics、wood etc;
适合铝合金、塑料、木头等;

With special edge treatment, the surface finish of aluminium processing is very high, it's very suitable for high silicon aluminium;
刃口特殊处理, 铝加工表面光洁度非常高, 特别适合高硅铝;

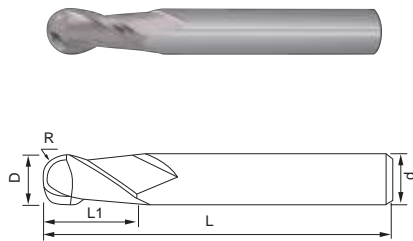
Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d	T
NNLYNX3101	4.0	0.50R	12	50	4	3
NNLYNX3102	5.0	0.50R	13	50	6	3
NNLYNX3103	6.0	0.50R	15	50	6	3
NNLYNX3104	6.0	1.00R	15	50	6	3
NNLYNX3105	8.0	0.50R	20	60	8	3
NNLYNX3106	8.0	1.00R	20	60	8	3
NNLYNX3107	8.0	1.50R	20	60	8	3
NNLYNX3108	8.0	2.00R	20	60	8	3
NNLYNX3109	10.0	0.50R	25	75	10	3
NNLYNX3110	10.0	1.00R	25	75	10	3
NNLYNX3111	10.0	1.50R	25	75	10	3
NNLYNX3112	10.0	2.00R	25	75	10	3
NNLYNX3113	12.0	0.50R	30	75	12	3
NNLYNX3114	12.0	1.00R	30	75	12	3
NNLYNX3115	12.0	1.50R	30	75	12	3
NNLYNX3116	12.0	2.00R	30	75	12	3
NNLYNX3117	14.0	0.50R	40	100	14	3
NNLYNX3118	16.0	0.50R	45	100	16	3
NNLYNX3119	16.0	1.00R	45	100	16	3
NNLYNX3120	16.0	2.00R	45	100	16	3
NNLYNX3121	20.0	1.00R	45	100	20	3
NNLYNX3122	20.0	2.00R	45	100	20	3



High polishing Aluminum ball nose endm mill

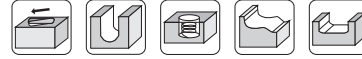
高光洁度铝用球头铣刀



Material

N

Processing graphics



High precision cutting , excellent cutting ability of cutting edges;
高精度切削, 具有良好的刃口切削能力;

Cutter types of use:Aluminium alloy、Plastics、 wood etc;
适合铝合金、塑料、木头等;

With special edge treatment, the surface finish of aluminium processing is very high,it's very suitable for high silicon aluminium;
刃口特殊处理, 铝加工表面光洁度非常高, 特别适合高硅铝;

Size(mm)	Tolerance(mm)
R≤2.5	±0.015
R>2.5	±0.020

Code No.	D	R	L1	L	d
NNLQNX2101	1.0	0.50R	2	50	4
NNLQNX2102	2.0	1.00R	4	50	4
NNLQNX2103	3.0	1.50R	6	50	4
NNLQNX2104	4.0	2.00R	8	50	4
NNLQNX2105	5.0	2.50R	10	50	6
NNLQNX2106	6.0	3.00R	12	50	6
NNLQNX2107	7.0	3.50R	16	60	8
NNLQNX2108	8.0	4.00R	16	60	8
NNLQNX2109	9.0	4.50R	20	75	10
NNLQNX2110	10.0	5.00R	20	75	10
NNLQNX2111	12.0	6.00R	20	75	12
NNLQNX2112	14.0	7.00R	25	80	14
NNLQNX2113	16.0	8.00R	25	100	16
NNLQNX2114	18.0	9.00R	40	100	18
NNLQNX2115	20.0	10.00R	40	100	20

Recommended Cutting Conditions

推荐切削参数

Working material	Non-ferrous metal (AL、ADC、CU)	
Vc	300-500(m/min)	
Diameter	R.P.M	Fz(mm/r)
1.0mm	95,000	0.013
1.5mm	63,000	0.014
2.0mm	47,000	0.015
2.5mm	38,000	0.018
3.0mm	31,000	0.021
4.0mm	23,000	0.290
5.0mm	19,000	0.035
6.0mm	16,000	0.043
8.0mm	12,000	0.057
10.0mm	95,000	0.088
12.0mm	8,000	0.106
14.0mm	6,800	0.120
16.0mm	5,900	0.140
20.0mm	47,000	0.180

Milling Amount
(mm)

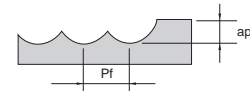


ap	ae
1.5D	0.05D
aeMax ≤ 1.0mm	

ap	ae
1.5D	0.03D
aeMax ≤ 0.5mm	

ap	ae
1.0D	0.02D
aeMax ≤ 0.5mm	

	ap	Pf
R ≤ 8	0.02D	0.1D
R > 8	0.32mm	0.1D



NH Ceramic Milling Tool compare of processing efficiency with Cemented Carbide Milling Tool NH陶瓷铣刀与硬质合金铣刀加工效率对比

Work material	Inconel718	Cut amount	265cm ³
machine tool	Makino	Density	p=8.24g/cm ³
Material specification	φ 150×15mm	HRC	HRC58-60

material of end mill	D (mm)	RPM (r/min)	VC (m/min)	F (mm/min)	Ap (mm)	Ae (mm)	m	min	Removal rate
Cemented carbide	D16	935	47	110	15	0.8	23	202	1.3cm ³ /min
NH ceramic	D12	16500	621	2970	5	1.2	45	15	17.60cm ³ /min
NH ceramic	D12	16500	621	5940	5	1.2	45	8	35.00cm ³ /min

结论 : Conclusion:

The removal rate per minute of NH ceramic milling cutter is more than 10 times that of cemented carbide milling cutter;
1. 单位时间去除率NH陶瓷铣刀是硬质合金铣刀的10倍以上;

With the same amount of processing, the efficiency of NH ceramic milling cutter is more than 10 times higher than that of carbide milling cutter;
2. 同样的加工量, NH陶瓷铣刀加工效率是硬质合金铣刀的10倍以上;



High-end machine tools can process high value-added superalloy materials at full load, so as to improve economic efficiency and get higher profits;
3. 高端机床能满负荷加工高附加值的高温合金材料, 从而提高经济效益得到更高的利润;

NH Ceramic Milling Tool compare the life with other brand NH陶瓷铣刀与其他品牌陶瓷铣刀寿命对比

Work material	Inconel718	Cut amount	265cm ³
machine tool	Makino	Density	p=8.24g/cm ³
Material specification	500mm×600mm×150mm	HRC	HRC58-60

material of end mill	D (mm)	T	RPM (r/min)	VC (m/min)	F (mm/min)	Ap (mm)	Ae (mm)	Cooling	min
US and European brand ceramic milling cutter	D12	6	16000	602	1800	6	0.4	Dry cutting	32
NH milling cutter	D12	6	16000	602	1800	6	0.4	Dry cutting	50

Picture contrast 图片对比

<p>Other brand ceramic milling cutter brand ceramic millin 其它的品牌陶瓷铣刀</p> 	<p>After working for 32mins, the cutting edge of the milling cutter was disassembled and analyzed. The cutting edge of the milling cutter was severely cracked and the flank of the milling cutter was worn. Thus, it can be judged that the tool can't continue processing any more, but that also verify in this state, the machine tool load increases sharply, and the noise increases significantly. 加工32分钟后, 拆卸下刀具刃口情况进行分析, 铣刀刃口崩缺严重, 后刀面正常磨损。由此可以判断, 该刀具无法继续加工, 同时也可验证, 在此状态下, 机床负载急剧增加, 噪音明显增加</p>
<p>NH integral milling cutter NH整体陶瓷铣刀</p> 	<p>After working for 50mins, the cutting edge of the milling cutter was disassembled and analyzed. The flank of the milling cutter was worn and have a small amount of cracked. Thus, it can be judged that the tool can continue processing, but also verify that in this state, the cutting is stable and the load of the machine tool is stable. 加工50分钟后, 拆卸下刀具刃口情况进行分析, 后刀面正常磨损, 少量小崩刃, 由此可以判断, 该刀具可以继续加工, 同时也可验证, 在此状态下, 切削较平稳, 机床负载较稳定。</p>

Conclusion: 结论 :

Other brand ceramic milling cutter processing for 32mins has reached the limit, with big noise, machine load is 39%, can not be processed;
其他品牌陶瓷铣刀加工32分钟已经到了极限, 噪音变大, 机床负载39%, 不能再加工;

NH integral ceramic milling cutter after working 55mins. For the high temperature of the high-speed rotating tool handle, the machine had been stopped by manual, machine load is 29%, can be continued using;
NH整体陶瓷铣刀加工到55分钟, 因高速旋转刀柄温度过高, 人为停机, 机床负载29%, 铣刀还可继续使用;

NH integral ceramic milling cutter has at least 1.5 times the service life than US and European brand ceramic milling cutters;
NH整体陶瓷铣刀是欧美品牌陶瓷铣刀寿命的至少1.5倍;

Integral ceramic milling cutter

整体陶瓷铣刀

Material

S

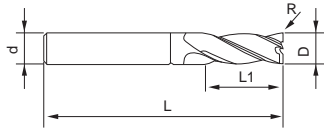
Processing graphics



Nimonic, Inconel, Monel, Hastelloy, Ti99.5, TiAl5Sn2.5, TiCu2, TiAl6Zr5, TiAl6V4, TiAl4Mo4Sn2.5, TiAl8Mo1V1;
主要加工高温镍基合金, 耐热材料, 钛合金材料;

With high wear resistance, life is more than 10-15 times that of carbide milling cutter;
超高的耐磨性, 寿命是硬质合金铣刀的10-15倍以上;

Super high processing efficiency, is more than 10 times of carbide milling cutters;
超高的加工效率, 是硬质合金铣刀的10倍以上;



Size(mm)	Tolerance(mm)
D	+0~-0.030
R	+0~-0.020

Code No.	D	R	L1	L	d	T
NNHYHX4001	6.0	0.5	4.5	50	6.0	4
NNHYHX4002	8.0	1.0	6.0	60	8.0	4
NNHYHX4003	10.0	1.0	7.5	65	10.0	4
NNHYHX4004	12.0	1.5	9.0	70	12.0	4
NNHYHX6001	6.0	0.5	4.5	50	6.0	6
NNHYHX6002	8.0	1.0	6.0	60	8.0	6
NNHYHX6003	10.0	1.0	7.5	65	10.0	6
NNHYHX6004	12.0	1.5	9.0	70	12.0	6

Recommended Cutting Conditions

推荐切削参数

Working material	(High temperature nickel base alloy) 高温镍基合金 (Ti and Ti-alloys) 钛和钛合金 Nimonic, Inconel, Monel, Hastelloy, Ti99.5, TiAl5Sn2.5 TiCu2, TiAl6Zr5, TiAl6V4, TiAl4Mo4Sn2.5, TiAl8Mo1V1
Vc(m/min)	600-750
Fz(mm/r)	0.03-0.08