



inch/mm

G0mill™ PRO

SOLID CARBIDE
END MILLS



EXPLORE
G0mill PRO



800.864.2660 | WWW.AM-IND.COM

GOmill PRO SOLID CARBIDE END MILLS

Ideal for shops working in the general engineering, transportation, energy and medical industries, GOmill PRO serves as a do-it-all end mill where price, performance and versatility meet for next level operations.

Your Go-To End Mill for Price, Performance & Versatility

Kennametal's 4-flute GOmill PRO Solid Carbide End Mills are a go-to solution for small and medium sized shops. Designed for side and shoulder milling, helical milling, pocketing, slotting and shallow ramping, GOmill PRO delivers affordability, versatility and high performance for next level machining.



Features & Benefits

- Asymmetric divided flutes for better vibration control and tool life and smoother cutting
- Variable helix angle for better vibration control and tool life
- Tapered core for better chip evacuation and tool strength
- Multilayer TiN/TiAlN coating for high performance with medium-high cutting on steels, stainless steels and cast iron
- Special relief design for higher edge strength, better vibration control and workpiece material flexibility

Applications



Side Milling/
Shoulder
Milling



Helical
Milling



Pocketing



Slotting



Ramping



Dynamic
Milling

Materials

PRIMARY



Steels



Cast Iron



Stainless Steels

SECONDARY



High-Temp Alloys

Industries



General
Engineering



Automotive



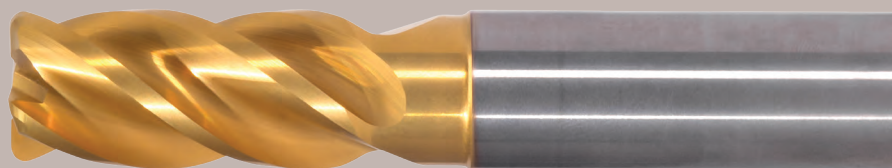
Wind & Solar



Oil & Gas



Medical



EXPLORE
GOMILL PRO



INCH

Product

Cutting Diameter

5/64 – 1 1/4"

Length of Cut

1xD – 8xD

Grade

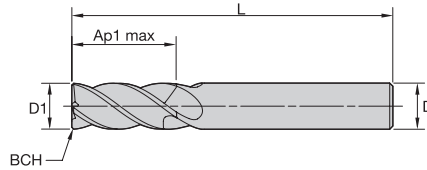
KCU20

End Face Styles

Square End, Chamfer,
Radius, Ball Nose

Shank Styles

Weldon® &
Cylindrical Shanks



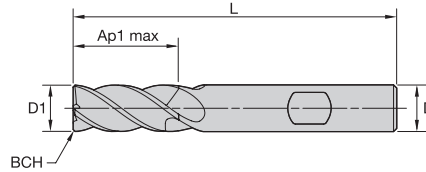
KCU20

P	●
M	●
K	●
N	●
S	○
H	○

GOmill PRO • Chamfered • 4 Flutes • Plain Shank • Inch

- Primary
- Secondary

Catalog Number	D1	D	Ap1 Max	L	BCH	KCU20
GOPR4CH0125S025HA	1/8	1/8	1/4	1 1/2	.010	7300365
GOPR4CH0125L050HA	1/8	1/8	1/2	2	.010	7300364
GOPR4CH0125X075HA	1/8	1/8	3/4	2 1/4	.010	7300949
GOPR4CH0125X100HA	1/8	1/8	1	3	.010	7300948
GOPR4CH0156L056HA	5/32	3/16	9/16	2	.010	7300950
GOPR4CH0188S031HA	3/16	3/16	5/16	2	.010	7301032
GOPR4CH0188R063HA	3/16	3/16	5/8	2 1/4	.010	7300366
GOPR4CH0188L075HA	3/16	3/16	3/4	2 1/2	.010	7301031
GOPR4CH0219R063HA	7/32	1/4	5/8	2 1/2	.016	7301033
GOPR4CH0250S038HA	1/4	1/4	3/8	2	.015	7300368
GOPR4CH0250R075HA	1/4	1/4	3/4	2 1/2	.015	7300367
GOPR4CH0313S050HA	5/16	5/16	1/2	2	.015	7300370
GOPR4CH0313R075HA	5/16	5/16	3/4	2 1/2	.015	7300369
GOPR4CH0375S050HA	3/8	3/8	1/2	2	.020	7300382
GOPR4CH0375R088HA	3/8	3/8	7/8	2 1/2	.020	7300381
GOPR4CH0438S063HA	7/16	7/16	5/8	2 1/2	.020	7300383
GOPR4CH0438S088HA	7/16	7/16	7/8	3	.020	7301034
GOPR4CH0500S063HA	1/2	1/2	5/8	2 1/2	.020	7301041
GOPR4CH0500S100HA	1/2	1/2	1	3	.020	7301039
GOPR4CH0500R125HA	1/2	1/2	1 1/4	3 1/4	.020	7301037
GOPR4CH0500R150HA	1/2	1/2	1 1/2	4	.020	7301036
GOPR4CH0500L200HA	1/2	1/2	2	4	.020	7301035
GOPR4CH0625S075HA	5/8	5/8	3/4	3	.020	7301048
GOPR4CH0625S125HA	5/8	5/8	1 1/4	3 1/2	.020	7301045
GOPR4CH0625R163HA	5/8	5/8	1 5/8	4 1/8	.020	7301044
GOPR4CH0625L225HA	5/8	5/8	2 1/4	5	.020	7301042
GOPR4CH0625S075HAE	5/8	5/8	3/4	6	.020	7301046
GOPR4CH0750S088HA	3/4	3/4	7/8	3 1/2	.020	7301056
GOPR4CH0750S150HA	3/4	3/4	1 1/2	4	.020	7301053
GOPR4CH0750R163HA	3/4	3/4	1 5/8	4	.020	7301051
GOPR4CH0750R225HA	3/4	3/4	2 1/4	5	.020	7301050
GOPR4CH0750S100HA	3/4	3/4	1	6	.020	7301054
GOPR4CH0750L300HA	3/4	3/4	3	6	.020	7301049



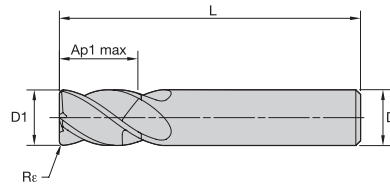
GOmill PRO • Chamfered • 4 Flutes • Weldon Shank • Inch

- Primary
- Secondary

KCU20

P	Blue	●
M	Yellow	●
K	Red	●
N	Green	○
S	Orange	○
H	Grey	○

Catalog Number	D1	D	Ap1 Max	L	BCH	KCU20
GOPR4CH0500S063HB	1/2	1/2	5/8	2 1/2	.020	7300386
GOPR4CH0500S100HB	1/2	1/2	1	3	.020	7301040
GOPR4CH0500R125HB	1/2	1/2	1 1/4	3 1/4	.020	7301038
GOPR4CH0500R150HB	1/2	1/2	1 1/2	4	.020	7300385
GOPR4CH0500L200HB	1/2	1/2	2	4	.020	7300384
GOPR4CH0625S075HB	5/8	5/8	3/4	3	.020	7300389
GOPR4CH0625S125HB	5/8	5/8	1 1/4	3 1/2	.020	7300388
GOPR4CH0625R163HB	5/8	5/8	1 5/8	4 1/8	.020	7300387
GOPR4CH0625L225HB	5/8	5/8	2 1/4	5	.020	7301043
GOPR4CH0625S075HBE	5/8	5/8	3/4	6	.020	7301047
GOPR4CH0750S088HB	3/4	3/4	7/8	3 1/2	.020	7300403
GOPR4CH0750S150HB	3/4	3/4	1 1/2	4	.020	7300402
GOPR4CH0750R163HB	3/4	3/4	1 5/8	4	.020	7301052
GOPR4CH0750R225HB	3/4	3/4	2 1/4	5	.020	7300401
GOPR4CH0750S100HB	3/4	3/4	1	6	.020	7301055
GOPR4CH0750L300HB	3/4	3/4	3	6	.020	7300390
GOPR4CH1000S150HB	1	1	1 1/2	4	.020	7300407
GOPR4CH1000S200HB	1	1	2	5	.020	7300406
GOPR4CH1000R225HB	1	1	2 1/4	5	.020	7301058
GOPR4CH1000R263HB	1	1	2 5/8	5	.020	7301057
GOPR4CH1000R300HB	1	1	3	6	.020	7300405
GOPR4CH1000L400HB	1	1	4	7	.020	7300404
GOPR4CH1250S225HB	1 1/4	1 1/4	2 1/4	5	.020	7301059



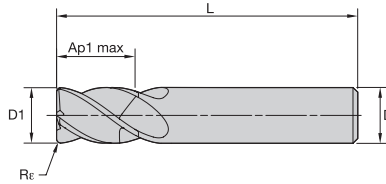
GOmill PRO • Radiused • 4 Flutes • Plain Shank • Inch

- Primary
- Secondary

KCU20

P	Blue	●
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Catalog Number	D1	D	Ap1 Max	L	Rε	KCU20
GOPR4RA0094R038HAR010	3/32	1/8	3/8	1 1/2	.010	7301737
GOPR4RA0094R038HAR015	3/32	1/8	3/8	1 1/2	.015	7301736
GOPR4RA0125S025HAR015	1/8	1/8	1/4	1 1/2	.015	7300260
GOPR4RA0125R050HAR010	1/8	1/8	1/2	1 1/2	.010	7301771
GOPR4RA0125R050HAR015	1/8	1/8	1/2	1 1/2	.015	7301740
GOPR4RA0125R050HAR020	1/8	1/8	1/2	1 1/2	.020	7301739
GOPR4RA0125R050HAR030	1/8	1/8	1/2	1 1/2	.030	7301738
GOPR4RA0125R050HAR015E	1/8	1/8	1/2	2	.015	7300259
GOPR4RA0125S025HAR015E	1/8	1/8	1/4	2 1/2	.015	7301772
GOPR4RA0188S031HAR015	3/16	3/16	5/16	2	.015	7300264
GOPR4RA0188S031HAR030	3/16	3/16	5/16	2	.030	7300263
GOPR4RA0188R063HAR010	3/16	3/16	5/8	2	.010	7301776
GOPR4RA0188R063HAR015	3/16	3/16	5/8	2	.015	7301775
GOPR4RA0188R063HAR020	3/16	3/16	5/8	2	.020	7301774
GOPR4RA0188R063HAR030	3/16	3/16	5/8	2	.030	7301773
GOPR4RA0188R063HAR015E	3/16	3/16	5/8	2 1/4	.015	7300262
GOPR4RA0188R063HAR030X	3/16	3/16	5/8	2 1/4	.030	7300261
GOPR4RA0188S031HAR015E	3/16	3/16	5/16	2 1/2	.015	7301778
GOPR4RA0188R063HAR030E	3/16	3/16	5/8	2 1/2	.030	7301777
GOPR4RA0250S038HAR030	1/4	1/4	3/8	2	.030	7300270
GOPR4RA0250S038HAR015	1/4	1/4	3/8	2 1/2	.015	7301785
GOPR4RA0250S050HAR015	1/4	1/4	1/2	2 1/2	.015	7301784



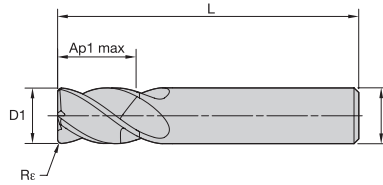
KCU20

P	●
M	●
K	●
N	●
S	○
H	○

GOmill PRO • Radiused • 4 Flutes • Plain Shank • Inch

- Primary
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Catalog Number	D1	D	Ap1 Max	L	Re	KCU20
GOPR4RA0250S050HAR030	1/4	1/4	1/2	2 1/2	.030	7301783
GOPR4RA0250S050HAR060	1/4	1/4	1/2	2 1/2	.060	7301782
GOPR4RA0250R075HAR015	1/4	1/4	3/4	2 1/2	.015	7300269
GOPR4RA0250R075HAR030	1/4	1/4	3/4	2 1/2	.030	7300268
GOPR4RA0250R075HAR060	1/4	1/4	3/4	2 1/2	.060	7300267
GOPR4RA0250R100HAR015	1/4	1/4	1	3	.015	7301781
GOPR4RA0250R125HAR015	1/4	1/4	1 1/4	3 1/4	.015	7300266
GOPR4RA0250R125HAR030	1/4	1/4	1 1/4	3 1/4	.030	7300265
GOPR4RA0250R175HAR015	1/4	1/4	1 3/4	4	.015	7301780
GOPR4RA0250R175HAR030	1/4	1/4	1 3/4	4	.030	7301779
GOPR4RA0313S050HAR030	5/16	5/16	1/2	2	.030	7300285
GOPR4RA0313S050HAR015	5/16	5/16	1/2	2 1/2	.015	7301803
GOPR4RA0313R075HAR015	5/16	5/16	3/4	2 1/2	.015	7300284
GOPR4RA0313R075HAR030	5/16	5/16	3/4	2 1/2	.030	7300283
GOPR4RA0313R075HAR060	5/16	5/16	3/4	2 1/2	.060	7300282
GOPR4RA0313R081HAR015	5/16	5/16	13/16	2 1/2	.015	7301802
GOPR4RA0313R081HAR020	5/16	5/16	13/16	2 1/2	.020	7301801
GOPR4RA0313R081HAR030	5/16	5/16	13/16	2 1/2	.030	7301790
GOPR4RA0313R081HAR045	5/16	5/16	13/16	2 1/2	.045	7301789
GOPR4RA0313R081HAR060	5/16	5/16	13/16	2 1/2	.060	7301788
GOPR4RA0313R125HAR030	5/16	5/16	1 1/4	3 1/4	.030	7300281
GOPR4RA0375S050HAR015	3/8	3/8	1/2	2	.015	7300294
GOPR4RA0375S050HAR030	3/8	3/8	1/2	2	.030	7300293
GOPR4RA0375S050HAR060	3/8	3/8	1/2	2	.060	7300292
GOPR4RA0375S050HAR015E	3/8	3/8	1/2	2 1/2	.015	7301815
GOPR4RA0375S050HAR030E	3/8	3/8	1/2	2 1/2	.030	7301814
GOPR4RA0375R088HAR015	3/8	3/8	7/8	2 1/2	.015	7300291
GOPR4RA0375R088HAR030	3/8	3/8	7/8	2 1/2	.030	7300290
GOPR4RA0375R088HAR060	3/8	3/8	7/8	2 1/2	.060	7300289
GOPR4RA0375R088HAR090	3/8	3/8	7/8	2 1/2	.090	7300288
GOPR4RA0375R088HAR015E	3/8	3/8	7/8	3	.015	7301813
GOPR4RA0375R088HAR030E	3/8	3/8	7/8	3	.030	7301812
GOPR4RA0375R088HAR090E	3/8	3/8	7/8	3	.090	7301811
GOPR4RA0375R100HAR015	3/8	3/8	1	3	.015	7301810
GOPR4RA0375R100HAR030	3/8	3/8	1	3	.030	7301809
GOPR4RA0375R100HAR060	3/8	3/8	1	3	.060	7301808
GOPR4RA0375R125HAR015	3/8	3/8	1 1/4	3	.015	7301807
GOPR4RA0375R125HAR030	3/8	3/8	1 1/4	3	.030	7301806
GOPR4RA0375R125HAR060	3/8	3/8	1 1/4	3	.060	7301805
GOPR4RA0375R150HAR030	3/8	3/8	1 1/2	4	.030	7300287
GOPR4RA0375R150HAR060	3/8	3/8	1 1/2	4	.060	7300286
GOPR4RA0375R250HAR030	3/8	3/8	2 1/2	4	.030	7301804
GOPR4RA0438R113HAR015	7/16	7/16	1 1/8	3 1/2	.015	7301818
GOPR4RA0500S063HAR015	1/2	1/2	5/8	2 1/2	.015	7301850
GOPR4RA0500S063HAR030	1/2	1/2	5/8	2 1/2	.030	7301849
GOPR4RA0500S063HAR060	1/2	1/2	5/8	2 1/2	.060	7301848
GOPR4RA0500S063HAR015E	1/2	1/2	5/8	3	.015	7301846
GOPR4RA0500S063HAR030E	1/2	1/2	5/8	3	.030	7301844
GOPR4RA0500S100HAR030	1/2	1/2	1	3	.030	7301842
GOPR4RA0500S100HAR060	1/2	1/2	1	3	.060	7301830
GOPR4RA0500R125HAR015	1/2	1/2	1 1/4	3 1/4	.015	7301828
GOPR4RA0500R125HAR030	1/2	1/2	1 1/4	3 1/4	.030	7301826
GOPR4RA0500R125HAR060	1/2	1/2	1 1/4	3 1/4	.060	7301824
GOPR4RA0500R125HAR090	1/2	1/2	1 1/4	3 1/4	.090	7301820
GOPR4RA0500R125HAR120	1/2	1/2	1 1/4	3 1/4	.120	7301822
GOPR4RA0500R150HAR015	1/2	1/2	1 1/2	4	.015	7301819
GOPR4RA0500R150HAR030	1/2	1/2	1 1/2	4	.030	7301883
GOPR4RA0500R150HAR060	1/2	1/2	1 1/2	4	.060	7301881
GOPR4RA0500R150HAR120	1/2	1/2	1 1/2	4	.120	7301882
GOPR4RA0500R163HAR030	1/2	1/2	1 5/8	4	.030	7301879
GOPR4RA0500R163HAR060	1/2	1/2	1 5/8	4	.060	7301877



KCU20

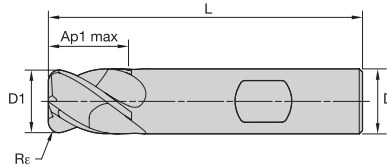
P	Blue	●
M	Yellow	●
K	Red	●
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S	Orange	○
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- Primary
- Secondary

GOMILL PRO • Radiused • 4 Flutes • Plain Shank • Inch • Continued

Catalog Number	D1	D	Ap1 Max	L	Re	KCU20
GOPR4RA0500R163HAR120	1/2	1/2	1 5/8	4	.120	7301875
GOPR4RA0500R200HAR030	1/2	1/2	2	4	.030	7301874
GOPR4RA0500R200HAR060	1/2	1/2	2	4	.060	7301872
GOPR4RA0500R200HAR030E	1/2	1/2	2	4 1/2	.030	7301873
GOPR4RA0500R250HAR030	1/2	1/2	2 1/2	4 1/2	.030	7301871
GOPR4RA0500R250HAR060	1/2	1/2	2 1/2	4 1/2	.060	7301859
GOPR4RA0500R250HAR030E	1/2	1/2	2 1/2	5	.030	7301857
GOPR4RA0500R300HAR030	1/2	1/2	3	5	.030	7301855
GOPR4RA0500R300HAR060	1/2	1/2	3	5	.060	7301853
GOPR4RA0625S075HAR060	5/8	5/8	3/4	3	.060	7301906
GOPR4RA0625S075HAR015	5/8	5/8	3/4	3 1/2	.015	7301904
GOPR4RA0625S075HAR030	5/8	5/8	3/4	3 1/2	.030	7301902
GOPR4RA0625S075HAR060E	5/8	5/8	3/4	3 1/2	.060	7301900
GOPR4RA0625S125HAR030	5/8	5/8	1 1/4	3 1/2	.030	7301899
GOPR4RA0625S125HAR060	5/8	5/8	1 1/4	3 1/2	.060	7301898
GOPR4RA0625S125HAR090	5/8	5/8	1 1/4	3 1/2	.090	7301897
GOPR4RA0625S125HAR120	5/8	5/8	1 1/4	3 1/2	.120	7301896
GOPR4RA0625R213HAR030	5/8	5/8	2 1/8	4	.030	7301769
GOPR4RA0625R213HAR060	5/8	5/8	2 1/8	4	.060	7301768
GOPR4RA0625R213HAR120	5/8	5/8	2 1/8	4	.120	7301767
GOPR4RA0625R163HAR030E	5/8	5/8	1 5/8	4 1/8	.030	7301895
GOPR4RA0625R163HAR060E	5/8	5/8	1 5/8	4 1/8	.060	7301894
GOPR4RA0625R163HAR120	5/8	5/8	1 5/8	4 1/8	.120	7301893
GOPR4RA0625R225HAR060	5/8	5/8	2 1/4	5	.060	7301766
GOPR4RA0750S088HAR030	3/4	3/4	7/8	3 1/2	.030	7301947
GOPR4RA0750S088HAR060	3/4	3/4	7/8	3 1/2	.060	7301946
GOPR4RA0750S088HAR090	3/4	3/4	7/8	3 1/2	.090	7301945
GOPR4RA0750S088HAR120	3/4	3/4	7/8	3 1/2	.120	7301944
GOPR4RA0750S088HAR030E	3/4	3/4	7/8	4	.030	7301940
GOPR4RA0750S150HAR015	3/4	3/4	1 1/2	4	.015	7301939
GOPR4RA0750S150HAR030	3/4	3/4	1 1/2	4	.030	7301938
GOPR4RA0750S150HAR060	3/4	3/4	1 1/2	4	.060	7301937
GOPR4RA0750S150HAR090	3/4	3/4	1 1/2	4	.090	7301935
GOPR4RA0750S150HAR120	3/4	3/4	1 1/2	4	.120	7301936
GOPR4RA0750R163HAR030	3/4	3/4	1 5/8	4	.030	7301933
GOPR4RA0750R163HAR060	3/4	3/4	1 5/8	4	.060	7301931
GOPR4RA0750R163HAR090	3/4	3/4	1 5/8	4	.090	7301929
GOPR4RA0750R163HAR120	3/4	3/4	1 5/8	4	.120	7301927
GOPR4RA0750R225HAR030	3/4	3/4	2 1/4	5	.030	7301925
GOPR4RA0750R225HAR060	3/4	3/4	2 1/4	5	.060	7301924
GOPR4RA0750R225HAR090	3/4	3/4	2 1/4	5	.090	7301923
GOPR4RA0750R225HAR120	3/4	3/4	2 1/4	5	.120	7301922
GOPR4RA0750R300HAR030	3/4	3/4	3	6	.030	7301921
GOPR4RA0750R300HAR060	3/4	3/4	3	6	.060	7301920
GOPR4RA0750R300HAR090	3/4	3/4	3	6	.090	7301919
GOPR4RA0750R300HAR120	3/4	3/4	3	6	.120	7301918
GOPR4RA0750R400HAR030	3/4	3/4	4	6 1/4	.030	7301915
GOPR4RA0750R400HAR060	3/4	3/4	4	6 1/4	.060	7301913
GOPR4RA0750R400HAR090	3/4	3/4	4	6 1/4	.090	7301911
GOPR4RA0750R400HAR120	3/4	3/4	4	6 1/4	.120	7301907
GOPR4RA0875S150HAR015	7/8	7/8	1 1/2	4	.015	7301961
GOPR4RA0875S150HAR020	7/8	7/8	1 1/2	4	.020	7301960
GOPR4RA0875S150HAR030	7/8	7/8	1 1/2	4	.030	7301959
GOPR4RA0875S150HAR060	7/8	7/8	1 1/2	4	.060	7301958
GOPR4RA0875S150HAR090	7/8	7/8	1 1/2	4	.090	7301957
GOPR4RA0875S150HAR120	7/8	7/8	1 1/2	4	.120	7301956
GOPR4RA1000S150HAR030	1	1	1 1/2	4	.030	7301969
GOPR4RA1000S200HAR030	1	1	2	4 1/2	.030	7301968
GOPR4RA1250S225HAR060	1 1/4	1 1/4	2 1/4	5	.060	7301972
GOPR4RA1250S225HAR090	1 1/4	1 1/4	2 1/4	5	.090	7301971
GOPR4RA1250S225HAR120	1 1/4	1 1/4	2 1/4	5	.120	7301970





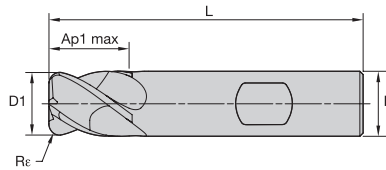
KCU20

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GOmill PRO • Radiused • 4 Flutes • Weldon Shank • Inch

- Primary
- Secondary

Catalog Number	D1	D	Ap1 Max	L	Re	KCU20
GOPR4RA0500S063HBR015	1/2	1/2	5/8	2 1/2	.015	7300300
GOPR4RA0500S063HBR030	1/2	1/2	5/8	2 1/2	.030	7300299
GOPR4RA0500S063HBR060	1/2	1/2	5/8	2 1/2	.060	7300298
GOPR4RA0500S063HBR015E	1/2	1/2	5/8	3	.015	7301847
GOPR4RA0500S063HBR030E	1/2	1/2	5/8	3	.030	7301845
GOPR4RA0500S100HBR030	1/2	1/2	1	3	.030	7301843
GOPR4RA0500S100HBR060	1/2	1/2	1	3	.060	7301841
GOPR4RA0500R125HBR015	1/2	1/2	1 1/4	3 1/4	.015	7301829
GOPR4RA0500R125HBR030	1/2	1/2	1 1/4	3 1/4	.030	7301827
GOPR4RA0500R125HBR060	1/2	1/2	1 1/4	3 1/4	.060	7301825
GOPR4RA0500R125HBR090	1/2	1/2	1 1/4	3 1/4	.090	7301821
GOPR4RA0500R125HBR120	1/2	1/2	1 1/4	3 1/4	.120	7301823
GOPR4RA0500R150HBR015	1/2	1/2	1 1/2	4	.015	7300296
GOPR4RA0500R150HBR030	1/2	1/2	1 1/2	4	.030	7300295
GOPR4RA0500R150HBR045	1/2	1/2	1 1/2	4	.045	7300297
GOPR4RA0500R150HBR060	1/2	1/2	1 1/2	4	.060	7300306
GOPR4RA0500R150HBR090	1/2	1/2	1 1/2	4	.090	7300305
GOPR4RA0500R150HBR120	1/2	1/2	1 1/2	4	.120	7300307
GOPR4RA0500R163HBR030	1/2	1/2	1 5/8	4	.030	7301880
GOPR4RA0500R163HBR060	1/2	1/2	1 5/8	4	.060	7301878
GOPR4RA0500R163HBR120	1/2	1/2	1 5/8	4	.120	7301876
GOPR4RA0500R200HBR030	1/2	1/2	2	4	.030	7300304
GOPR4RA0500R200HBR060	1/2	1/2	2	4	.060	7300303
GOPR4RA0500R250HBR030	1/2	1/2	2 1/2	4 1/2	.030	7300302
GOPR4RA0500R250HBR060	1/2	1/2	2 1/2	4 1/2	.060	7300301
GOPR4RA0500R250HBR030E	1/2	1/2	2 1/2	5	.030	7301858
GOPR4RA0500R300HBR030	1/2	1/2	3	5	.030	7301856
GOPR4RA0500R300HBR060	1/2	1/2	3	5	.060	7301854
GOPR4RA0625S075HBR060	5/8	5/8	3/4	3	.060	7300326
GOPR4RA0625S075HBR015	5/8	5/8	3/4	3 1/2	.015	7301905
GOPR4RA0625S075HBR030	5/8	5/8	3/4	3 1/2	.030	7301903
GOPR4RA0625S075HBR060E	5/8	5/8	3/4	3 1/2	.060	7301901
GOPR4RA0625S125HBR030	5/8	5/8	1 1/4	3 1/2	.030	7300325
GOPR4RA0625S125HBR060	5/8	5/8	1 1/4	3 1/2	.060	7300324
GOPR4RA0625S125HBR090	5/8	5/8	1 1/4	3 1/2	.090	7300323
GOPR4RA0625S125HBR120	5/8	5/8	1 1/4	3 1/2	.120	7300322
GOPR4RA0625R213HBR030	5/8	5/8	2 1/8	4	.030	7301892
GOPR4RA0625R213HBR060	5/8	5/8	2 1/8	4	.060	7301891
GOPR4RA0625R213HBR120	5/8	5/8	2 1/8	4	.120	7301770
GOPR4RA0625R163HBR030E	5/8	5/8	1 5/8	4 1/8	.030	7300321
GOPR4RA0625R163HBR060E	5/8	5/8	1 5/8	4 1/8	.060	7300310
GOPR4RA0625R163HBR120E	5/8	5/8	1 5/8	4 1/8	.120	7300309
GOPR4RA0625R225HBR060	5/8	5/8	2 1/4	5	.060	7300308
GOPR4RA0750S088HBR030	3/4	3/4	7/8	3 1/2	.030	7300353
GOPR4RA0750S088HBR060	3/4	3/4	7/8	3 1/2	.060	7300352
GOPR4RA0750S088HBR090	3/4	3/4	7/8	3 1/2	.090	7300351
GOPR4RA0750S088HBR120	3/4	3/4	7/8	3 1/2	.120	7300350
GOPR4RA0750S088HBR030E	3/4	3/4	7/8	4	.030	7301941
GOPR4RA0750S150HBR015	3/4	3/4	1 1/2	4	.015	7300349
GOPR4RA0750S150HBR030	3/4	3/4	1 1/2	4	.030	7300348
GOPR4RA0750S150HBR060	3/4	3/4	1 1/2	4	.060	7300347
GOPR4RA0750S150HBR090	3/4	3/4	1 1/2	4	.090	7300345
GOPR4RA0750S150HBR120	3/4	3/4	1 1/2	4	.120	7300346
GOPR4RA0750R163HBR030	3/4	3/4	1 5/8	4	.030	7301934
GOPR4RA0750R163HBR060	3/4	3/4	1 5/8	4	.060	7301932
GOPR4RA0750R163HBR090	3/4	3/4	1 5/8	4	.090	7301930
GOPR4RA0750R163HBR120	3/4	3/4	1 5/8	4	.120	7301928
GOPR4RA0750R225HBR030	3/4	3/4	2 1/4	5	.030	7300344
GOPR4RA0750R225HBR060	3/4	3/4	2 1/4	5	.060	7300343
GOPR4RA0750R225HBR090	3/4	3/4	2 1/4	5	.090	7300342
GOPR4RA0750R225HBR120	3/4	3/4	2 1/4	5	.120	7300341



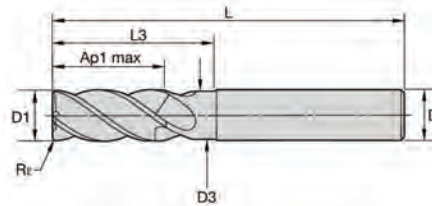
KCU20

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● Primary
○ Secondary

GOmill PRO • Radiused • 4 Flutes • Weldon Shank • Inch • Continued

Catalog Number	D1	D	Ap1 Max	L	Re	KCU20
GOPR4RA0750R300HBR030	3/4	3/4	3	6	.030	7300330
GOPR4RA0750R300HBR060	3/4	3/4	3	6	.060	7300329
GOPR4RA0750R300HBR090	3/4	3/4	3	6	.090	7300328
GOPR4RA0750R300HBR120	3/4	3/4	3	6	.120	7300327
GOPR4RA0750R400HBR030	3/4	3/4	4	6 1/4	.030	7301916
GOPR4RA0750R400HBR060	3/4	3/4	4	6 1/4	.060	7301914
GOPR4RA0750R400HBR090	3/4	3/4	4	6 1/4	.090	7301912
GOPR4RA0750R400HBR120	3/4	3/4	4	6 1/4	.120	7301908
GOPR4RA1000S150HBR030	1	1	1 1/2	4	.030	7300363
GOPR4RA1000S150HBR060	1	1	1 1/2	4	.060	7300362
GOPR4RA1000S150HBR090	1	1	1 1/2	4	.090	7300361
GOPR4RA1000S150HBR120	1	1	1 1/2	4	.120	7300360
GOPR4RA1000S150HBR250	1	1	1 1/2	4	.250	7300359
GOPR4RA1000S200HBR030	1	1	2	4 1/2	.030	7301967
GOPR4RA1000S200HBR060	1	1	2	4 1/2	.060	7301966
GOPR4RA1000S200HBR120	1	1	2	4 1/2	.120	7301965
GOPR4RA1000S200HBR030E	1	1	2	5	.030	7300358
GOPR4RA1000R225HBR030	1	1	2 1/4	5	.030	7301964
GOPR4RA1000R225HBR060	1	1	2 1/4	5	.060	7301963
GOPR4RA1000R263HBR030	1	1	2 5/8	5	.030	7301962
GOPR4RA1000R300HBR030	1	1	3	6	.030	7300357
GOPR4RA1000R300HBR060	1	1	3	6	.060	7300356
GOPR4RA1000R400HBR030	1	1	4	7	.030	7300355
GOPR4RA1000R400HBR060	1	1	4	7	.060	7300354
GOPR4RA1250S225HBR030	1 1/4	1 1/4	2 1/4	5	.030	7301973



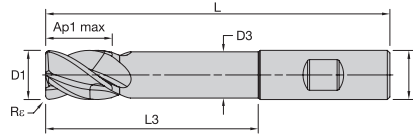
KCU20

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● Primary
○ Secondary

GOmill PRO • Radiused • 4 Flutes • Necked • Plain Shank • Inch

Catalog Number	D1	D	D3	Ap1 Max	L3	L	Re	KCU20
GOPR4RA0250N038HAR015	1/4	1/4	0.2350	3/8	1 1/4	4	.015	7301787
GOPR4RA0250N038HAR030	1/4	1/4	0.2350	3/8	1 1/4	4	.030	7301786
GOPR4RA0375E050HAR030	3/8	3/8	0.3525	1/2	2	4	.030	7301817
GOPR4RA0375N050HAR030	3/8	3/8	0.3525	1/2	1 7/8	4	.030	7301816
GOPR4RA0500N063HAR030	1/2	1/2	0.4700	5/8	2 1/4	4	.030	7301851
GOPR4RA0750N100HAR030	3/4	3/4	0.7050	1	3 1/4	5 1/4	.030	7301948
GOPR4RA0750N100HAR060	3/4	3/4	0.7050	1	3 1/4	5 1/4	.060	7301952
GOPR4RA0750N100HAR090	3/4	3/4	0.7050	1	3 1/4	5 1/4	.090	7301951
GOPR4RA0750N100HAR120	3/4	3/4	0.7050	1	3 1/4	5 1/4	.120	7301950



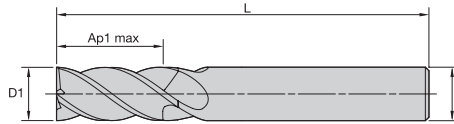
GOmill PRO • Radiused • 4 Flutes • Necked • Weldon Shank • Inch

- Primary
- Secondary

KG120

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Catalog Number	D1	D	D3	Ap1 Max	L3	L	Rε	KCU20
GOPR4RA0500N063HBR030	1/2	1/2	0.4700	5/8	2 1/4	4	.030	7301852
GOPR4RA0750N100HBR030	3/4	3/4	0.7050	1	3 1/4	5 1/4	.030	7301949
GOPR4RA0750N100HBR060	3/4	3/4	0.7050	1	3 1/4	5 1/4	.060	7301955
GOPR4RA0750N100HBR090	3/4	3/4	0.7050	1	3 1/4	5 1/4	.090	7301954
GOPR4RA0750N100HBR120	3/4	3/4	0.7050	1	3 1/4	5 1/4	.120	7301953



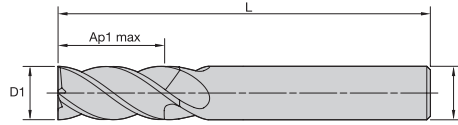
GOmill PRO • Square End • 4 Flutes • Plain Shank • Inch

- Primary
- Secondary

KG120

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Catalog Number	D1	D	Ap1 Max	L	KCU20
GOPR4SE0094R038HA	3/32	1/8	3/8	1 1/2	7301165
GOPR4SE0094R063HA	3/32	1/8	5/8	2	7301166
GOPR4SE0109R038HA	7/64	1/8	3/8	1 1/2	7301167
GOPR4SE0125S025HA	1/8	1/8	1/4	1 1/2	7300039
GOPR4SE0125R050HA	1/8	1/8	1/2	1 1/2	7301170
GOPR4SE0125S025HAE	1/8	1/4	1/4	2	7301169
GOPR4SE0125R050HAX	1/8	1/8	1/2	2	7300040
GOPR4SE0125R075HA	1/8	1/8	3/4	2 1/4	7301251
GOPR4SE0125R050HAE	1/8	1/8	1/2	2 1/2	7301168
GOPR4SE0125R100HA	1/8	1/8	1	3	7301252
GOPR4SE0141R056HA	9/64	3/16	9/16	2	7301253
GOPR4SE0156R056HA	5/32	3/16	9/16	2	7301254
GOPR4SE0188S031HA	3/16	3/16	5/16	2	7300231
GOPR4SE0188R063HA	3/16	3/16	5/8	2	7301257
GOPR4SE0188R063HAE	3/16	3/16	5/8	2 1/4	7300232
GOPR4SE0188S031HAE	3/16	3/16	5/16	2 1/2	7301255
GOPR4SE0188R063HAX	3/16	3/16	5/8	2 1/2	7301256
GOPR4SE0188R075HA	3/16	3/16	3/4	2 1/2	7301258
GOPR4SE0188R113HA	3/16	3/16	1 1/8	3	7301259
GOPR4SE0203R063HA	13/64	1/4	5/8	2 1/2	7301260
GOPR4SE0219S044HA	7/32	1/4	7/16	2	7301261
GOPR4SE0219R063HA	7/32	1/4	5/8	2 1/2	7301262
GOPR4SE0234R075HA	15/64	1/4	3/4	2 1/2	7301263
GOPR4SE0250S038HA	1/4	1/4	3/8	2	7300233
GOPR4SE0250S050HA	1/4	1/4	1/2	2 1/2	7301264
GOPR4SE0250R075HA	1/4	1/4	3/4	2 1/2	7300234
GOPR4SE0250R100HA	1/4	1/4	1	3	7301265
GOPR4SE0250R125HA	1/4	1/4	1 1/4	3 1/4	7300235
GOPR4SE0250R175HA	1/4	1/4	1 3/4	4	7301266
GOPR4SE0281R075HA	9/32	5/16	3/4	2 1/2	7301267
GOPR4SE0297R081HA	19/64	5/16	13/16	2 1/2	7301268
GOPR4SE0313S038HA	5/16	5/16	3/8	2	7301270
GOPR4SE0313S050HA	5/16	5/16	1/2	2	7300236
GOPR4SE0313S050HAE	5/16	5/16	1/2	2 1/2	7301269
GOPR4SE0313R075HA	5/16	5/16	3/4	2 1/2	7300237
GOPR4SE0313R081HA	5/16	5/16	13/16	2 1/2	7301271
GOPR4SE0313R113HA	5/16	5/16	1 1/8	3	7301272
GOPR4SE0313R125HA	5/16	5/16	1 1/4	3 1/4	7300238
GOPR4SE0313R163HA	5/16	5/16	1 5/8	4	7301273
GOPR4SE0328R100HA	21/64	3/8	1	2 1/2	7301274
GOPR4SE0375S050HA	3/8	3/8	1/2	2	7300239
GOPR4SE0375S050HAE	3/8	3/8	1/2	2 1/2	7301275
GOPR4SE0375R088HA	3/8	3/8	7/8	2 1/2	7300240



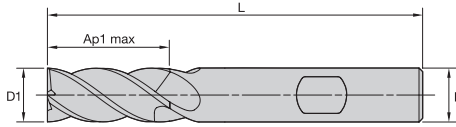
KCU20

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GOmill PRO • Square End • 4 Flutes • Plain Shank • Inch • Continued

- Primary
- Secondary

Catalog Number	D1	D	Ap1 Max	L	KCU20
GOPR4SE0375R088HAE	3/8	3/8	7/8	3	7301276
GOPR4SE0375R100HA	3/8	3/8	1	3	7301277
GOPR4SE0375R125HA	3/8	3/8	1 1/4	3	7301278
GOPR4SE0375R150HA	3/8	3/8	1 1/2	4	7300241
GOPR4SE0375R250HA	3/8	3/8	2 1/2	4	7301279
GOPR4SE0391R100HA	25/64	7/16	1	2 3/4	7301280
GOPR4SE0406R100HA	13/32	7/16	1	2 3/4	7301291
GOPR4SE0422R100HA	27/64	7/16	1	2 3/4	7301292
GOPR4SE0438S063HA	7/16	7/16	5/8	2 1/2	7300242
GOPR4SE0438R100HAE	7/16	7/16	1	2 3/4	7301294
GOPR4SE0438S088HA	7/16	7/16	7/8	3	7301293
GOPR4SE0438R100HA	7/16	7/16	1	3	7301295
GOPR4SE0438R150HA	7/16	7/16	1 1/2	4	7301296
GOPR4SE0438R200HA	7/16	7/16	2	4	7300243
GOPR4SE0438R300HA	7/16	7/16	3	6	7301297
GOPR4SE0453R100HA	29/64	1/2	1	3	7301298
GOPR4SE0469R100HA	15/32	1/2	1	3	7301299
GOPR4SE0484R100HA	31/64	1/2	1	3	7301300
GOPR4SE0500S063HA	1/2	1/2	5/8	2 1/2	7301301
GOPR4SE0500S100HA	1/2	1/2	1	2 1/2	7301317
GOPR4SE0500S063HAE	1/2	1/2	5/8	3	7301303
GOPR4SE0500S100HAE	1/2	1/2	1	3	7301307
GOPR4SE0500R125HA	1/2	1/2	1 1/4	3 1/4	7301309
GOPR4SE0500R150HA	1/2	1/2	1 1/2	4	7301310
GOPR4SE0500R163HA	1/2	1/2	1 5/8	4	7301312
GOPR4SE0500R200HA	1/2	1/2	2	4	7301313
GOPR4SE0500R250HA	1/2	1/2	2 1/2	4 1/2	7301314
GOPR4SE0500R300HA	1/2	1/2	3	5	7301316
GOPR4SE0500S063HAX	1/2	1/2	5/8	6	7301305
GOPR4SE0563S075HA	9/16	9/16	3/4	3	7301318
GOPR4SE0563R125HA	9/16	9/16	1 1/4	3 1/2	7301319
GOPR4SE0563R225HA	9/16	9/16	2 1/4	5	7301320
GOPR4SE0625S075HA	5/8	5/8	3/4	3	7301325
GOPR4SE0625S125HA	5/8	5/8	1 1/4	3 1/2	7301326
GOPR4SE0625R213HA	5/8	5/8	2 1/8	4	7301329
GOPR4SE0625R163HAE	5/8	5/8	1 5/8	4 1/8	7301327
GOPR4SE0625R225HA	5/8	5/8	2 1/4	5	7301331
GOPR4SE0625R300HA	5/8	5/8	3	5 1/4	7301324
GOPR4SE0750S088HA	3/4	3/4	7/8	3 1/2	7301333
GOPR4SE0750S150HA	3/4	3/4	1 1/2	4	7301337
GOPR4SE0750R163HA	3/4	3/4	1 5/8	4	7301339
GOPR4SE0750R225HA	3/4	3/4	2 1/4	5	7301340
GOPR4SE0750S100HA	3/4	3/4	1	6	7301335
GOPR4SE0750R300HA	3/4	3/4	3	6	7301351
GOPR4SE0750R400HA	3/4	3/4	4	6 1/4	7301353
GOPR4SE0813S150HA	13/16	7/8	1 1/2	4	7301354
GOPR4SE0875S150HA	7/8	7/8	1 1/2	4	7301355
GOPR4SE0875R225HA	7/8	7/8	2 1/4	5	7301356
GOPR4SE1000R300HA	1	1	3	6	7301362
GOPR4SE1250S225HA	1 1/4	1 1/4	2 1/4	5	7301363



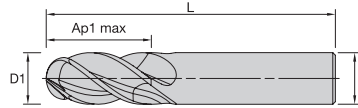
KCU20

P	●
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K	●
N	●
S	○
H	○

GOmill PRO • Square End • 4 Flutes • Weldon Shank • Inch

- Primary
- Secondary

Catalog Number	D1	D	Ap1 Max	L	KCU20
GOPR4SE0500S063HB	1/2	1/2	5/8	2 1/2	7300244
GOPR4SE0500S063HBE	1/2	1/2	5/8	3	7301302
GOPR4SE0500S100HB	1/2	1/2	1	3	7301306
GOPR4SE0500R125HB	1/2	1/2	1 1/4	3 1/4	7301308
GOPR4SE0500R150HB	1/2	1/2	1 1/2	4	7300245
GOPR4SE0500R163HB	1/2	1/2	1 5/8	4	7301311
GOPR4SE0500R200HB	1/2	1/2	2	4	7300246
GOPR4SE0500R250HB	1/2	1/2	2 1/2	4 1/2	7300247
GOPR4SE0500R300HB	1/2	1/2	3	5	7301315
GOPR4SE0500S063HBX	1/2	1/2	5/8	6	7301304
GOPR4SE0563S075HB	9/16	9/16	3/4	3	7301321
GOPR4SE0563R125HB	9/16	9/16	1 1/4	3 1/2	7301322
GOPR4SE0563R225HB	9/16	9/16	2 1/4	5	7301323
GOPR4SE0625S075HB	5/8	5/8	3/4	3	7300248
GOPR4SE0625S125HB	5/8	5/8	1 1/4	3 1/2	7300249
GOPR4SE0625R213HB	5/8	5/8	2 1/8	4	7301328
GOPR4SE0625R163HBE	5/8	5/8	1 5/8	4 1/8	7300250
GOPR4SE0625R225HB	5/8	5/8	2 1/4	5	7301330
GOPR4SE0625R300HB	5/8	5/8	3	5 1/4	7301332
GOPR4SE0750S088HB	3/4	3/4	7/8	3 1/2	7300251
GOPR4SE0750S150HB	3/4	3/4	1 1/2	4	7300252
GOPR4SE0750R163HB	3/4	3/4	1 5/8	4	7301338
GOPR4SE0750R225HB	3/4	3/4	2 1/4	5	7300253
GOPR4SE0750R100HB	3/4	3/4	1	5 1/4	7301336
GOPR4SE0750S100HB	3/4	3/4	1	6	7301334
GOPR4SE0750R300HB	3/4	3/4	3	6	7300254
GOPR4SE0750R400HB	3/4	3/4	4	6 1/4	7301352
GOPR4SE0875S150HB	7/8	7/8	1 1/2	4	7301357
GOPR4SE0875R225HB	7/8	7/8	2 1/4	5	7301358
GOPR4SE1000S150HB	1	1	1 1/2	4	7300255
GOPR4SE1000S200HB	1	1	2	4 1/2	7301359
GOPR4SE1000S200HBE	1	1	2	5	7300256
GOPR4SE1000R225HB	1	1	2 1/4	5	7301360
GOPR4SE1000R263HB	1	1	2 5/8	5	7301361
GOPR4SE1000R300HB	1	1	3	6	7300257
GOPR4SE1000R400HB	1	1	4	7	7300258
GOPR4SE1250S225HB	1 1/4	1 1/4	2 1/4	5	7301364



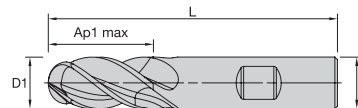
KCU20

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K	●
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S	○
H	○

GOmill PRO • Ball Nose • 4 Flutes • Plain Shank • Inch

- Primary
- Secondary

Catalog Number	D1	D	Ap1 Max	L	KCU20
GOPR4BN0078S019HA	5/64	1/8	3/16	1 1/2	7301201
GOPR4BN0094S019HA	3/32	1/8	3/16	1 1/2	7301203
GOPR4BN0094S038HA	3/32	1/8	3/8	1 1/2	7301202
GOPR4BN0109S038HA	7/64	1/8	3/8	1 1/2	7301204
GOPR4BN0125R050HA	1/8	1/8	1/2	2	7300408
GOPR4BN0141S056HA	9/64	3/16	9/16	2	7301205
GOPR4BN0156S031HA	5/32	3/16	5/16	2	7301206
GOPR4BN0172S063HA	11/64	3/16	5/8	2	7301207
GOPR4BN0188S031HA	3/16	3/16	5/16	2	7301210
GOPR4BN0188R063HA	3/16	3/16	5/8	2 1/4	7300409
GOPR4BN0188S075HA	3/16	3/16	3/4	2 1/2	7301209
GOPR4BN0188S100HA	3/16	3/16	1	2 1/2	7301208
GOPR4BN0203S063HA	13/64	1/4	5/8	2 1/2	7301211
GOPR4BN0219S063HA	7/32	1/4	5/8	2 1/2	7301212
GOPR4BN0234S075HA	15/64	1/4	3/4	2 1/2	7301213
GOPR4BN0250R075HA	1/4	1/4	3/4	2 1/2	7300410
GOPR4BN0266S075HA	17/64	5/16	3/4	2 1/2	7301214
GOPR4BN0281S075HA	9/32	5/16	3/4	2 1/2	7301215
GOPR4BN0313S050HA	5/16	5/16	1/2	2	7301219
GOPR4BN0313R075HA	5/16	5/16	3/4	2 1/2	7300411
GOPR4BN0313S081HA	5/16	5/16	13/16	2 1/2	7301218
GOPR4BN0313S113HA	5/16	5/16	1 1/8	3	7301217
GOPR4BN0313S163HA	5/16	5/16	1 5/8	3 1/2	7301216
GOPR4BN0344S100HA	11/32	3/8	1	3	7301220
GOPR4BN0375R050HA	3/8	3/8	1/2	2 1/2	7301221
GOPR4BN0375R088HA	3/8	3/8	7/8	2 1/2	7300412
GOPR4BN0438R088HA	7/16	7/16	7/8	3	7301222
GOPR4BN0500R063HA	1/2	1/2	5/8	3	7301225
GOPR4BN0500R100HA	1/2	1/2	1	3	7301224
GOPR4BN0500S125HA	1/2	1/2	1 1/4	3 1/4	7301223
GOPR4BN0563S125HA	9/16	9/16	1 1/4	3 1/2	7301227
GOPR4BN0625R075HA	5/8	5/8	3/4	3	7301229
GOPR4BN0625R125HA	5/8	5/8	1 1/4	3 1/2	7301228
GOPR4BN0750R100HA	3/4	3/4	1	3 1/2	7301242
GOPR4BN0750R150HA	3/4	3/4	1 1/2	4	7301241
GOPR4BN0875S150HA	7/8	7/8	1 1/2	4	7301244
GOPR4BN1000R113HA	1	1	1 1/8	4	7301246
GOPR4BN1000R150HA	1	1	1 1/2	4	7301245
GOPR4BN1250S225HA	1 1/4	1 1/4	2 1/4	5	7301248



KCU20

P	●
M	●
K	●
N	○
S	○
H	○

GOmill PRO • Ball Nose • 4 Flutes • Weldon Shank • Inch

- Primary
- Secondary

Catalog Number	D1	D	Ap1 Max	L	KCU20
GOPR4BN0500R063HB	1/2	1/2	5/8	3	7301226
GOPR4BN0500R100HB	1/2	1/2	1	3	7300414
GOPR4BN0500S125HB	1/2	1/2	1 1/4	3 1/4	7300413
GOPR4BN0625R075HB	5/8	5/8	3/4	3	7301230
GOPR4BN0625R125HB	5/8	5/8	1 1/4	3 1/2	7300415
GOPR4BN0750R100HB	3/4	3/4	1	3 1/2	7301243
GOPR4BN0750R150HB	3/4	3/4	1 1/2	4	7300416
GOPR4BN1000R113HB	1	1	1 1/8	4	7301247
GOPR4BN1000R150HB	1	1	1 1/2	4	7300417
GOPR4BN1250S225HB	1 1/4	1 1/4	2 1/4	5	7301249



GOmill PRO Application Data • Regular • Inch

Material Group	Side Milling		Slotting		Recommended Feed per Tooth (IPT=Inch/th) is for Side Milling (A). For Slotting (B) Reduce Fz by 20%.														
	ap	ae	ap	KCU20			D1 - Diameter												
				Cutting Speed Vc		Fraction	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	1	1 1/4	
				SFM	Min		Max	dec.	0.0625	0.1250	0.1875	0.2500	0.3125	0.3750	0.4375	0.5000	0.6250	0.7500	1.0000
P	P0	Ap1Max	0.4xD	1xD	490	660	IPT	0.0004	0.0009	0.0013	0.0018	0.0023	0.0027	0.0031	0.0034	0.0039	0.0044	0.0049	0.0049
	P1	Ap1Max	0.4xD	1xD	490	660	IPT	0.0004	0.0009	0.0013	0.0018	0.0023	0.0027	0.0031	0.0034	0.0039	0.0044	0.0049	0.0049
	P2	Ap1Max	0.4xD	1xD	460	620	IPT	0.0004	0.0009	0.0013	0.0018	0.0023	0.0027	0.0031	0.0034	0.0039	0.0044	0.0049	0.0049
	P3	Ap1Max	0.4xD	1xD	390	520	IPT	0.0004	0.0007	0.0011	0.0015	0.0020	0.0023	0.0026	0.0029	0.0034	0.0039	0.0045	0.0048
	P4	Ap1Max	0.4xD	0.75xD	300	490	IPT	0.0003	0.0007	0.0010	0.0014	0.0017	0.0020	0.0023	0.0026	0.0030	0.0034	0.0039	0.0040
	P5	Ap1Max	0.4xD	1xD	200	330	IPT	0.0003	0.0006	0.0009	0.0012	0.0016	0.0018	0.0021	0.0023	0.0027	0.0031	0.0036	0.0039
M	P6	Ap1Max	0.4xD	0.75xD	160	250	IPT	0.0002	0.0005	0.0008	0.0010	0.0013	0.0015	0.0017	0.0019	0.0022	0.0025	0.0028	0.0029
	M1	Ap1Max	0.4xD	1xD	300	380	IPT	0.0004	0.0007	0.0011	0.0015	0.0020	0.0023	0.0026	0.0029	0.0034	0.0039	0.0045	0.0048
	M2	Ap1Max	0.4xD	1xD	200	260	IPT	0.0003	0.0006	0.0009	0.0012	0.0016	0.0018	0.0021	0.0023	0.0027	0.0031	0.0036	0.0039
K	M3	Ap1Max	0.4xD	1xD	200	230	IPT	0.0002	0.0005	0.0008	0.0010	0.0013	0.0015	0.0017	0.0019	0.0022	0.0025	0.0028	0.0029
	K1	Ap1Max	0.4xD	1xD	390	490	IPT	0.0004	0.0009	0.0013	0.0018	0.0023	0.0027	0.0031	0.0034	0.0039	0.0044	0.0049	0.0049
	K2	Ap1Max	0.4xD	1xD	360	460	IPT	0.0004	0.0007	0.0011	0.0015	0.0020	0.0023	0.0026	0.0029	0.0034	0.0039	0.0045	0.0048
	K3	Ap1Max	0.4xD	1xD	360	430	IPT	0.0003	0.0006	0.0009	0.0012	0.0016	0.0018	0.0021	0.0023	0.0027	0.0031	0.0036	0.0039
S	S1	Ap1Max	0.4xD	0.3xD	160	300	IPT	0.0004	0.0007	0.0011	0.0015	0.0020	0.0023	0.0026	0.0029	0.0034	0.0039	0.0045	0.0048
	S2	Ap1Max	0.4xD	0.3xD	80	160	IPT	0.0002	0.0004	0.0006	0.0008	0.0010	0.0012	0.0014	0.0015	0.0018	0.0021	0.0024	0.0026
	S3	Ap1Max	0.4xD	1xD	80	130	IPT	0.0002	0.0004	0.0006	0.0008	0.0010	0.0012	0.0014	0.0015	0.0018	0.0021	0.0024	0.0026
	S4	Ap1Max	0.4xD	1xD	160	200	IPT	0.0002	0.0005	0.0008	0.0011	0.0014	0.0017	0.0019	0.0021	0.0025	0.0028	0.0033	0.0036
H	H1	Ap1Max	0.4xD	0.75xD	260	460	IPT	0.0003	0.0007	0.0010	0.0014	0.0017	0.0020	0.0023	0.0026	0.0030	0.0034	0.0039	0.0040
	H2	Ap1Max	0.4xD	0.5xD	230	390	IPT	0.0002	0.0005	0.0008	0.0010	0.0013	0.0015	0.0017	0.0019	0.0022	0.0025	0.0028	0.0029

NOTE:
 These guidelines may require variations to achieve optimum results.
Lower value of cutting speed is used for high stock removal applications or for higher hardness (machinability) within group.
Higher value of cutting speed is used for finishing applications or for lower hardness (machinability) within group.
Above parameters are based on ideal conditions. For smaller taper machining centers, please adjust parameters accordingly on diameters greater than 1/2".
 For better surface finish, reduce feed per tooth.
 Side milling applications - for longest reach (L3) tools, reduce Ae by 30%.
 Slot milling applications - for longest reach (L3) tools, reduce Ae by 30%.
 Sharp corner tools are not recommended for slotting application.

GOmill PRO Application Data • Adjustment Factor Table for Feed and Speed Calculation • Inch

	Ae/D	2%	4%	5%	8%	10%	12%	20%	30%	40%
Speed Factor	Kv	2-3.3	1.45- 2.73	1.45-2.27	1.45	1.27	1.25	1.18	1.09	1.00
Feed Factor	KFz	3.51	2.51	2.25	1.80	1.64	1.51	1.23	1.07	1.00
phi [°]		16.26	23.07	25.84	32.86	36.87	40.54	53.13	66.42	78.46

NOTE:
 These calculations are for roughing/semi-finishing cuts when used with the recommended base fz.
 For light finishing cuts requiring improved surface quality, it is recommended to reduce the base fz approximately 50% and then apply these factors.
 For an Ae/D ration of 5% or less there is range given for speed factor Kv, which allows the user to either be more conservative at the lower value or more aggressive with the higher value.
 This can also be considered based on machinability of the material, from difficult to free cutting.

To calculate application specific cutting data, please use above Kv coefficient for adaptation of cutting speed and KFz for feed respectively.

Vc new = Vc*Kv
 Fz new = Fz*KFz

Calculation Example:

Application:	D1 =	0.6250"
	Material Group	P5
	Ae= 0.125	20% of D1
Cutting data recommendation:	Vc =	265 SFM
	Fz =	0.00273 IPT
Adjustment coefficient:	Kv =	1.18
	KFz =	1.23

Final cutting data recommendation:

Vc new = 265 * 1.18 = 312.7 SFM
 Fz new = 0.0027 * 1.23 = 0.0034 IPT



GOmill PRO
Application Data • Ramping • Inch

Material Group	Helical Interpolation / Ramping 0° - 5°	Recommended Feed per Tooth (Fz = IPT) for Helical Interpolation and Ramping - Zef=2																
		KCU20		Cutting Speed Vc	D1 - Diameter													
		SFM			min-max	.144 - .238	.179 - .296	.216 - .356	.251 - .415	.288 - .475	.323 - .534	.359 - .594	.431 - .713	.575 - .950	.719 - 1.188	.863 - 1.425	1.150 - 1.900	1.437 - 2.375
		Max Depth	Min	Max	dec.	0.1250	0.1563	0.1875	0.2188	0.2500	0.2813	0.3125	0.3750	0.5000	0.6250	0.7500	1.0000	1.2500
P	P0	1.25 x D1	490	660	IPT	0.0010	0.0012	0.0015	0.0017	0.0020	0.0023	0.0026	0.0030	0.0037	0.0043	0.0048	0.0054	0.0054
	P1	1.25 x D1	490	660	IPT	0.0010	0.0012	0.0015	0.0017	0.0020	0.0023	0.0026	0.0030	0.0037	0.0043	0.0048	0.0054	0.0054
	P2	1.25 x D1	460	620	IPT	0.0010	0.0012	0.0015	0.0017	0.0020	0.0023	0.0026	0.0030	0.0037	0.0043	0.0048	0.0054	0.0054
	P3	1.25 x D1	390	520	IPT	0.0008	0.0010	0.0012	0.0014	0.0017	0.0019	0.0021	0.0025	0.0032	0.0038	0.0042	0.0050	0.0053
	P4	1.25 x D1	300	490	IPT	0.0007	0.0009	0.0011	0.0013	0.0015	0.0017	0.0019	0.0022	0.0028	0.0033	0.0037	0.0042	0.0044
	P5	1.25 x D1	200	330	IPT	0.0007	0.0008	0.0010	0.0012	0.0014	0.0015	0.0017	0.0020	0.0025	0.0030	0.0034	0.0040	0.0043
P6	1.25 x D1	160	250	IPT	0.0006	0.0007	0.0008	0.0010	0.0011	0.0013	0.0014	0.0017	0.0021	0.0025	0.0027	0.0031	0.0032	
M	M1	1.25 x D1	300	380	IPT	0.0008	0.0010	0.0012	0.0014	0.0017	0.0019	0.0021	0.0025	0.0032	0.0038	0.0042	0.0050	0.0053
	M2	1.25 x D1	200	260	IPT	0.0007	0.0008	0.0010	0.0012	0.0014	0.0015	0.0017	0.0020	0.0025	0.0030	0.0034	0.0040	0.0043
K	M3	1.0 x D1	200	230	IPT	0.0006	0.0007	0.0008	0.0010	0.0011	0.0013	0.0014	0.0017	0.0021	0.0025	0.0027	0.0031	0.0032
	K1	1.0 x D1	390	490	IPT	0.0010	0.0012	0.0015	0.0017	0.0020	0.0023	0.0026	0.0030	0.0037	0.0043	0.0048	0.0054	0.0054
	K2	1.0 x D1	360	460	IPT	0.0008	0.0010	0.0012	0.0014	0.0017	0.0019	0.0021	0.0025	0.0032	0.0038	0.0042	0.0050	0.0053
S	K3	1.0 x D1	360	430	IPT	0.0007	0.0008	0.0010	0.0012	0.0014	0.0015	0.0017	0.0020	0.0025	0.0030	0.0034	0.0040	0.0043
	S1	0.75 x D1	160	300	IPT	0.0008	0.0010	0.0012	0.0014	0.0017	0.0019	0.0021	0.0025	0.0032	0.0038	0.0042	0.0050	0.0053
	S2	0.75 x D1	80	160	IPT	0.0004	0.0005	0.0007	0.0008	0.0009	0.0010	0.0011	0.0013	0.0017	0.0020	0.0023	0.0027	0.0029
	S3	0.5 x D1	80	130	IPT	0.0004	0.0005	0.0007	0.0008	0.0009	0.0010	0.0011	0.0013	0.0017	0.0020	0.0023	0.0027	0.0029
	S4	1.25 x D1	160	200	IPT	0.0005	0.0007	0.0008	0.0010	0.0012	0.0014	0.0016	0.0019	0.0023	0.0028	0.0031	0.0036	0.0039
H	H1	1.0 x D1	260	460	IPT	0.0007	0.0009	0.0011	0.0013	0.0015	0.0017	0.0019	0.0022	0.0028	0.0033	0.0037	0.0042	0.0044
	H2	1.0 x D1	230	390	IPT	0.0006	0.0007	0.0008	0.0010	0.0011	0.0013	0.0014	0.0017	0.0021	0.0025	0.0027	0.0031	0.0032



GOmill PRO LONG
Application Data • Long • For >3xD Cutting Lengths • Inch

Material Group	Side Milling	Recommended Feed per Tooth (IPT=Inch/th) is for Side Milling (A). No Slotting Operations Recommended.																
		KCU20		Cutting Speed Vc	D1 - Diameter													
		SFM			Fraction	1/16	1/8	3/16	1/4	5/16	3/8	7/16	1/2	5/8	3/4	1	1 1/4	
		ap	ae	Min	Max	dec.	0.0625	0.1250	0.1875	0.2500	0.3125	0.3750	0.4375	0.5000	0.6250	0.7500	1.0000	1.2500
P	P0	Ap1Max	0.2xD	490	660	IPT	0.0004	0.0009	0.0013	0.0018	0.0023	0.0027	0.0031	0.0034	0.0039	0.0044	0.0049	0.0049
	P1	Ap1Max	0.2xD	490	660	IPT	0.0004	0.0009	0.0013	0.0018	0.0023	0.0027	0.0031	0.0034	0.0039	0.0044	0.0049	0.0049
	P2	Ap1Max	0.2xD	460	620	IPT	0.0004	0.0009	0.0013	0.0018	0.0023	0.0027	0.0031	0.0034	0.0039	0.0044	0.0049	0.0049
	P3	Ap1Max	0.2xD	390	520	IPT	0.0004	0.0007	0.0011	0.0015	0.0020	0.0023	0.0026	0.0029	0.0034	0.0039	0.0045	0.0048
	P4	Ap1Max	0.2xD	300	490	IPT	0.0003	0.0007	0.0010	0.0014	0.0017	0.0020	0.0023	0.0026	0.0030	0.0034	0.0039	0.0040
	P5	Ap1Max	0.2xD	200	330	IPT	0.0003	0.0006	0.0009	0.0012	0.0016	0.0018	0.0021	0.0023	0.0027	0.0031	0.0036	0.0039
M	P6	Ap1Max	0.15xD	160	250	IPT	0.0002	0.0005	0.0008	0.0010	0.0013	0.0015	0.0017	0.0019	0.0022	0.0025	0.0028	0.0029
	M1	Ap1Max	0.2xD	300	380	IPT	0.0004	0.0007	0.0011	0.0015	0.0020	0.0023	0.0026	0.0029	0.0034	0.0039	0.0045	0.0048
K	M2	Ap1Max	0.2xD	200	260	IPT	0.0003	0.0006	0.0009	0.0012	0.0016	0.0018	0.0021	0.0023	0.0027	0.0031	0.0036	0.0039
	M3	Ap1Max	0.2xD	200	230	IPT	0.0002	0.0005	0.0008	0.0010	0.0013	0.0015	0.0017	0.0019	0.0022	0.0025	0.0028	0.0029
	K1	Ap1Max	0.2xD	390	490	IPT	0.0004	0.0009	0.0013	0.0018	0.0023	0.0027	0.0031	0.0034	0.0039	0.0044	0.0049	0.0049
S	K2	Ap1Max	0.2xD	360	460	IPT	0.0004	0.0007	0.0011	0.0015	0.0020	0.0023	0.0026	0.0029	0.0034	0.0039	0.0045	0.0048
	K3	Ap1Max	0.2xD	360	430	IPT	0.0003	0.0006	0.0009	0.0012	0.0016	0.0018	0.0021	0.0023	0.0027	0.0031	0.0036	0.0039
	S1	Ap1Max	0.1xD	160	300	IPT	0.0004	0.0007	0.0011	0.0015	0.0020	0.0023	0.0026	0.0029	0.0034	0.0039	0.0045	0.0048
	S2	Ap1Max	0.1xD	80	160	IPT	0.0002	0.0004	0.0006	0.0008	0.0010	0.0012	0.0014	0.0015	0.0018	0.0021	0.0024	0.0026
	S3	Ap1Max	0.1xD	80	130	IPT	0.0002	0.0004	0.0006	0.0008	0.0010	0.0012	0.0014	0.0015	0.0018	0.0021	0.0024	0.0026
H	S4	Ap1Max	0.15xD	160	200	IPT	0.0002	0.0005	0.0008	0.0011	0.0014	0.0017	0.0019	0.0021	0.0025	0.0028	0.0033	0.0036
	H1	Ap1Max	0.15xD	260	460	IPT	0.0003	0.0007	0.0010	0.0014	0.0017	0.0020	0.0023	0.0026	0.0030	0.0034	0.0039	0.0040
H2	Ap1Max	0.15xD	230	440	IPT	0.0002	0.0005	0.0008	0.0010	0.0013	0.0015	0.0017	0.0019	0.0022	0.0025	0.0028	0.0029	

NOTE: These guidelines may require variations to achieve optimum results.
 Lower value of cutting speed is used for high stock removal applications or for higher hardness (machinability) within group.
 Higher value of cutting speed is used for finishing applications or for lower hardness (machinability) within group.
 For better surface finish, reduce feed per tooth.



METRIC

Product

Cutting Diameter

1.5 – 25mm

Length of Cut

1xD – 5xD

Grade

KCU20

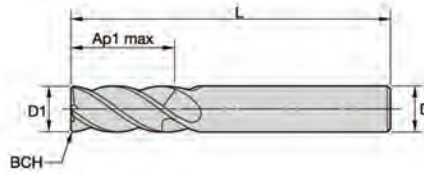
End Face Styles

Square End, Chamfer,
Radius, Ball Nose

Shank Styles

Weldon &
Cylindrical Shanks





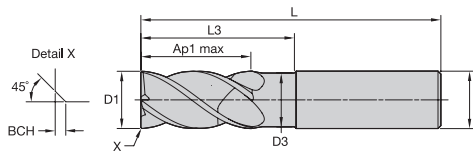
KCU20

P	●
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S	○
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● Primary
○ Secondary

GOmill PRO • Chamfered • 4 Flutes • Plain Shank • Metric

Catalog Number	D1	D	AP1 Max	L	BCH	KCU20
GOPR4CH0300R008HAM	3.00	6.00	8.00	57.00	0.15	7231597
GOPR4CH0400R011HAM	4.00	6.00	11.00	57.00	0.15	7231599
GOPR4CH0500R013HAM	5.00	6.00	13.00	57.00	0.15	7231601
GOPR4CH0600R013HAM	6.00	6.00	13.00	57.00	0.15	7231603
GOPR4CH0600X032HAM	6.00	6.00	32.00	76.00	0.15	7231605
GOPR4CH0700R019HAM	7.00	8.00	19.00	63.00	0.15	7231606
GOPR4CH0800R019HAM	8.00	8.00	19.00	63.00	0.20	7231676
GOPR4CH0800L032HAM	8.00	8.00	32.00	87.00	0.20	7231678
GOPR4CH0900R022HAM	9.00	10.00	22.00	72.00	0.20	7231679
GOPR4CH1000R022HAM	10.00	10.00	22.00	72.00	0.20	7231680
GOPR4CH1000L038HAM	10.00	10.00	38.00	89.00	0.20	7231712
GOPR4CH1200R026HAM	12.00	12.00	26.00	83.00	0.20	7231713
GOPR4CH1200L051HAM	12.00	12.00	51.00	100.00	0.20	7231715
GOPR4CH1400S026HAM	14.00	14.00	26.00	83.00	0.35	7231716
GOPR4CH1600R032HAM	16.00	16.00	32.00	92.00	0.35	7231718
GOPR4CH1600L057HAM	16.00	16.00	57.00	125.00	0.35	7231721
GOPR4CH2000S038HAM	20.00	20.00	38.00	104.00	0.35	7231722
GOPR4CH2000R057HAM	20.00	20.00	57.00	125.00	0.35	7231724
GOPR4CH2500S045HAM	25.00	25.00	45.00	121.00	0.35	7231726



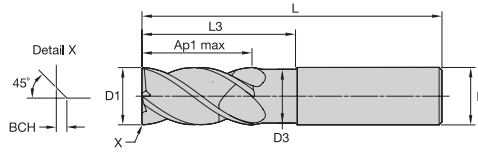
KCU20

P	●
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● Primary
○ Secondary

GOmill PRO • Chamfered • 4 Flutes • Necked • Plain Shank • Metric

	Catalog Number	D1	D	D3	AP1 Max	L	L3	BCH	KCU20
NEW	GOPR4CH0150N004HAM	1.50	6.00	1.40	4.00	57.00	8.00	0.15	7378493
NEW	GOPR4CH0150N005HAM	1.50	6.00	1.40	5.00	57.00	11.00	0.15	7378531
NEW	GOPR4CH0200N004HAM	2.00	6.00	1.88	4.00	57.00	8.00	0.15	7378495
NEW	GOPR4CH0200N007HAM	2.00	6.00	1.88	7.00	57.00	11.00	0.15	7378533
NEW	GOPR4CH0300N004HAM	3.00	6.00	2.82	4.00	54.00	11.00	0.15	7378512
NEW	GOPR4CH0300N008HAM	3.00	6.00	2.82	8.00	57.00	15.00	0.15	7378496
NEW	GOPR4CH0300N010HAM	3.00	6.00	2.82	10.00	57.00	16.00	0.15	7378535
NEW	GOPR4CH0400N005HAM	4.00	6.00	3.76	5.00	57.00	15.00	0.15	7378514
NEW	GOPR4CH0400N011HAM	4.00	6.00	3.76	11.00	57.00	16.00	0.15	7378497
NEW	GOPR4CH0400N013HAM	4.00	6.00	3.76	13.00	57.00	17.00	0.15	7378537
NEW	GOPR4CH0500N006HAM	5.00	6.00	4.70	6.00	57.00	17.00	0.15	7378516
NEW	GOPR4CH0500N013HAM	5.00	6.00	4.70	13.00	57.00	18.00	0.15	7378498
NEW	GOPR4CH0500N016HAM	5.00	6.00	4.70	16.00	57.00	20.00	0.15	7378539
NEW	GOPR4CH0600N007HAM	6.00	6.00	5.64	7.00	57.00	19.00	0.15	7378518
NEW	GOPR4CH0600N012HAM	6.00	6.00	5.64	12.00	100.00	42.00	0.15	7378483
NEW	GOPR4CH0600N013HAM	6.00	6.00	5.64	13.00	57.00	21.00	0.15	7378499
NEW	GOPR4CH0600N019HAM	6.00	6.00	5.64	19.00	63.00	27.00	0.15	7378541
NEW	GOPR4CH0800N009HAM	8.00	8.00	7.52	9.00	58.00	20.00	0.20	7378520
NEW	GOPR4CH0800N016HAM	8.00	8.00	7.52	16.00	100.00	62.00	0.20	7378484
NEW	GOPR4CH0800N019HAM	8.00	8.00	7.52	19.00	63.00	27.00	0.20	7378500
NEW	GOPR4CH0800N025HAM	8.00	8.00	7.52	25.00	76.00	34.00	0.20	7378543
NEW	GOPR4CH1000N011HAM	10.00	10.00	9.40	11.00	66.00	24.00	0.20	7378522
NEW	GOPR4CH1000N020HAM	10.00	10.00	9.40	20.00	100.00	60.00	0.20	7378485
NEW	GOPR4CH1000N022HAM	10.00	10.00	9.40	22.00	72.00	32.00	0.20	7378501



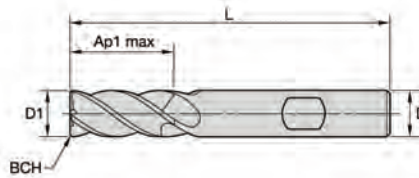
GOmill PRO • Chamfered • 4 Flutes • Necked • Plain Shank • Metric • Continued

● Primary
○ Secondary

KCU20

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	Catalog Number	D1	D	D3	AP1 Max	L	L3	BCH	KCU20
NEW	GOPR4CH1000N031HAM	10.00	10.00	9.40	31.00	89.00	45.00	0.20	7378545
NEW	GOPR4CH1200N014HAM	12.00	12.00	11.28	14.00	76.00	30.00	0.20	7378524
NEW	GOPR4CH1200N024HAM	12.00	12.00	11.25	24.00	150.00	73.00	0.20	7378486
NEW	GOPR4CH1200N026HAM	12.00	12.00	11.28	26.00	83.00	38.00	0.20	7378502
NEW	GOPR4CH1200N036HAM	12.00	12.00	11.28	36.00	100.00	48.00	0.20	7378547
NEW	GOPR4CH1600N018HAM	16.00	16.00	15.04	18.00	82.00	34.00	0.35	7378526
NEW	GOPR4CH1600N032HAM	16.00	16.00	15.04	32.00	92.00	44.00	0.35	7378504
NEW	GOPR4CH1600E032HAM	16.00	16.00	15.04	32.00	150.00	100.00	0.35	7378487
NEW	GOPR4CH1600N048HAM	16.00	16.00	15.04	48.00	110.00	60.00	0.35	7378549
NEW	GOPR4CH1800N035HAM	18.00	18.00	16.92	35.00	100.00	53.00	0.35	7378505
NEW	GOPR4CH2000N022HAM	20.00	20.00	18.80	22.00	92.00	40.00	0.35	7378528
NEW	GOPR4CH2000N038HAM	20.00	20.00	18.80	38.00	104.00	53.00	0.35	7378506
NEW	GOPR4CH2000N060HAM	20.00	20.00	18.80	60.00	125.00	75.00	0.35	7378582
NEW	GOPR4CH2500N045HAM	25.00	25.00	23.50	45.00	121.00	65.00	0.35	7378507



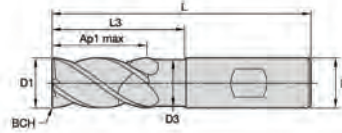
GOmill PRO • Chamfered • 4 Flutes • Weldon Shank • Metric

● Primary
○ Secondary

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	Catalog Number	D1	D	AP1 Max	L	BCH	KCU20
	GOPR4CH0300R008HBM	3.00	6.00	8.00	57.00	0.15	7231598
	GOPR4CH0400R011HBM	4.00	6.00	11.00	57.00	0.15	7231600
	GOPR4CH0500R013HBM	5.00	6.00	13.00	57.00	0.15	7231602
	GOPR4CH0600R013HBM	6.00	6.00	13.00	57.00	0.15	7231604
	GOPR4CH0800R019HBM	8.00	8.00	19.00	63.00	0.20	7231677
	GOPR4CH1000R022HBM	10.00	10.00	22.00	72.00	0.20	7231711
	GOPR4CH1200R026HBM	12.00	12.00	26.00	83.00	0.20	7231714
	GOPR4CH1400S026HBM	14.00	14.00	26.00	83.00	0.35	7231717
	GOPR4CH1600R032HBM	16.00	16.00	32.00	92.00	0.35	7231719
	GOPR4CH2000S038HBM	20.00	20.00	38.00	104.00	0.35	7231723



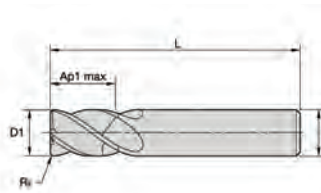
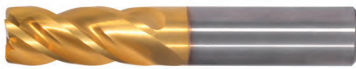
GOmill PRO • Chamfered • 4 Flutes • Necked • Weldon Shank • Metric

- Primary
- Secondary

KCU20

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	Catalog Number	D1	D	D3	AP1 Max	L	L3	BCH	KCU20
NEW	GOPR4CH0150N004HBM	1.50	6.00	1.40	4.00	57.00	8.00	0.15	7378494
NEW	GOPR4CH0150N005HBM	1.50	6.00	1.40	5.00	57.00	11.00	0.15	7378532
	GOPR4CH0200N006HBM	2.00	6.00	1.88	4.00	57.00	8.00	0.15	7230995
NEW	GOPR4CH0200N007HBM	2.00	6.00	1.88	7.00	57.00	11.00	0.15	7378534
NEW	GOPR4CH0200N008HBM	2.00	6.00	1.88	8.00	63.00	16.00	0.15	7378832
NEW	GOPR4CH0200N010HBM	2.00	6.00	1.88	10.00	63.00	18.00	0.15	7378630
NEW	GOPR4CH0300N004HBM	3.00	6.00	2.82	4.00	54.00	11.00	0.15	7378513
	GOPR4CH0300N008HBM	3.00	6.00	2.82	8.00	57.00	15.00	0.15	7231184
NEW	GOPR4CH0300N010HBM	3.00	6.00	2.82	10.00	57.00	16.00	0.15	7378536
NEW	GOPR4CH0300N012HBM	3.00	6.00	2.82	12.00	63.00	18.00	0.15	7378833
NEW	GOPR4CH0300N015HBM	3.00	6.00	2.82	15.00	63.00	21.00	0.15	7378851
	GOPR4CH0400N011HBM	4.00	6.00	3.76	11.00	57.00	16.00	0.15	7231185
NEW	GOPR4CH0400N005HBM	4.00	6.00	3.76	5.00	57.00	15.00	0.15	7378515
NEW	GOPR4CH0400N013HBM	4.00	6.00	3.76	13.00	57.00	17.00	0.15	7378538
NEW	GOPR4CH0400N016HBM	4.00	6.00	3.76	16.00	63.00	21.00	0.15	7378834
NEW	GOPR4CH0400N020HBM	4.00	6.00	3.76	20.00	63.00	24.00	0.15	7378852
NEW	GOPR4CH0500N006HBM	5.00	6.00	4.70	6.00	57.00	17.00	0.15	7378517
	GOPR4CH0500N013HBM	5.00	6.00	4.70	13.00	57.00	18.00	0.15	7231186
NEW	GOPR4CH0500N016HBM	5.00	6.00	4.70	16.00	57.00	20.00	0.15	7378540
NEW	GOPR4CH0500N020HBM	5.00	6.00	4.70	20.00	63.00	25.00	0.15	7378835
NEW	GOPR4CH0500N025HBM	5.00	6.00	4.70	25.00	76.00	35.00	0.15	7378853
NEW	GOPR4CH0600N007HBM	6.00	6.00	5.64	7.00	57.00	19.00	0.15	7378519
	GOPR4CH0600N013HBM	6.00	6.00	5.64	13.00	57.00	21.00	0.15	7231187
NEW	GOPR4CH0600N019HBM	6.00	6.00	5.64	19.00	63.00	27.00	0.15	7378542
NEW	GOPR4CH0600N024HBM	6.00	6.00	5.64	24.00	76.00	30.00	0.15	7378836
NEW	GOPR4CH0600N030HBM	6.00	6.00	5.64	30.00	76.00	38.00	0.15	7378854
NEW	GOPR4CH0800N009HBM	8.00	8.00	7.52	9.00	58.00	20.00	0.20	7378521
	GOPR4CH0800N019HBM	8.00	8.00	7.52	19.00	63.00	27.00	0.20	7231188
NEW	GOPR4CH0800N025HBM	8.00	8.00	7.52	25.00	76.00	34.00	0.20	7378544
NEW	GOPR4CH0800N032HBM	8.00	8.00	7.52	32.00	76.00	40.00	0.20	7378837
NEW	GOPR4CH0800N040HBM	8.00	8.00	7.52	40.00	87.00	48.00	0.20	7378855
NEW	GOPR4CH1000N011HBM	10.00	10.00	9.40	11.00	66.00	24.00	0.20	7378523
	GOPR4CH1000N022HBM	10.00	10.00	9.40	22.00	72.00	32.00	0.20	7231189
NEW	GOPR4CH1000N031HBM	10.00	10.00	9.40	31.00	89.00	45.00	0.20	7378546
NEW	GOPR4CH1000N040HBM	10.00	10.00	9.40	40.00	89.00	50.00	0.20	7378838
NEW	GOPR4CH1000N050HBM	10.00	10.00	9.40	50.00	100.00	60.00	0.20	7378856
NEW	GOPR4CH1200N014HBM	12.00	12.00	11.28	14.00	76.00	30.00	0.20	7378525
	GOPR4CH1200N026HBM	12.00	12.00	11.28	26.00	83.00	38.00	0.20	7231190
NEW	GOPR4CH1200N036HBM	12.00	12.00	11.28	36.00	100.00	48.00	0.20	7378548
NEW	GOPR4CH1200N048HBM	12.00	12.00	11.28	48.00	100.00	55.00	0.20	7378839
NEW	GOPR4CH1200N060HBM	12.00	12.00	11.28	60.00	150.00	72.00	0.20	7378857
NEW	GOPR4CH1600N018HBM	16.00	16.00	15.04	18.00	82.00	34.00	0.35	7378527
NEW	GOPR4CH1600N022HBM	16.00	16.00	15.04	22.00	82.00	34.00	0.35	7378503
	GOPR4CH1600N032HBM	16.00	16.00	15.04	32.00	92.00	44.00	0.35	7231191
NEW	GOPR4CH1600N048HBM	16.00	16.00	15.04	48.00	110.00	60.00	0.35	7378550
NEW	GOPR4CH1600N064HBM	16.00	16.00	15.04	64.00	125.00	76.00	0.35	7378840
NEW	GOPR4CH1600N080HBM	16.00	16.00	15.04	80.00	141.00	92.00	0.35	7378858
NEW	GOPR4CH2000N022HBM	20.00	20.00	18.80	22.00	92.00	40.00	0.35	7378529
	GOPR4CH2000N038HBM	20.00	20.00	18.80	38.00	104.00	53.00	0.35	7231192
NEW	GOPR4CH2000N060HBM	20.00	20.00	18.80	60.00	125.00	75.00	0.35	7378583
NEW	GOPR4CH2000N080HBM	20.00	20.00	18.80	80.00	150.00	100.00	0.35	7378841
	GOPR4CH2500N045HBM	25.00	25.00	23.50	45.00	121.00	65.00	0.35	7231725



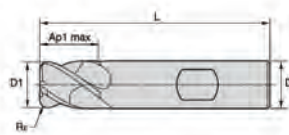
KCU20

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● Primary
○ Secondary

G0mill PRO • Radiused • 4 Flutes • Plain Shank • Metric

	Catalog Number	D1	D	AP1 Max	L	Rε	KCU20
NEW	GOPR4RA0300S004HAR020M	3.00	6.00	4.00	50.00	0.20	7378690
NEW	GOPR4RA0400S005HAR020M	4.00	6.00	5.00	50.00	0.20	7378932
NEW	GOPR4RA0500S006HAR040M	5.00	6.00	6.00	50.00	0.40	7378934
	GOPR4RA0600S007HAR040M	6.00	6.00	7.00	50.00	0.40	7231579
	GOPR4RA0800S010HAR040M	8.00	8.00	10.00	50.00	0.40	7231641
	GOPR4RA1000S012HAR040M	10.00	10.00	12.00	66.00	0.40	7231643
	GOPR4RA1200S015HAR050M	12.00	12.00	15.00	73.00	0.50	7231646
	GOPR4RA1600S020HAR050M	16.00	16.00	20.00	82.00	0.50	7231664
	GOPR4RA1600R035HAR050M	16.00	16.00	35.00	92.00	0.50	7231662
	GOPR4RA2000S025HAR050M	20.00	20.00	25.00	92.00	0.50	7231670
	GOPR4RA2000R042HAR050M	20.00	20.00	42.00	104.00	0.50	7231668
	GOPR4RA2500R052HAR050M	25.00	25.00	52.00	121.00	0.50	7231674



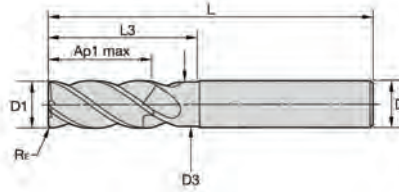
KCU20

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● Primary
○ Secondary

G0mill PRO • Radiused • 4 Flutes • Weldon Shank • Metric

	Catalog Number	D1	D	AP1 Max	L	Rε	KCU20
NEW	GOPR4RA0300S004HBR020M	3.00	6.00	4.00	50.00	0.20	7378931
NEW	GOPR4RA0400S005HBR020M	4.00	6.00	5.00	50.00	0.20	7378933
NEW	GOPR4RA0500S006HBR040M	5.00	6.00	6.00	50.00	0.40	7378935
	GOPR4RA0600S007HBR040M	6.00	6.00	7.00	50.00	0.40	7231580
	GOPR4RA0800S010HBR040M	8.00	8.00	10.00	50.00	0.40	7231642
	GOPR4RA1000S012HBR040M	10.00	10.00	12.00	66.00	0.40	7231644
	GOPR4RA1200S015HBR050M	12.00	12.00	15.00	73.00	0.50	7231647
	GOPR4RA1600S020HBR050M	16.00	16.00	20.00	82.00	0.50	7231665
	GOPR4RA1600R035HBR050M	16.00	16.00	35.00	92.00	0.50	7231663
	GOPR4RA2000S025HBR050M	20.00	20.00	25.00	92.00	0.50	7231671
	GOPR4RA2000R042HBR050M	20.00	20.00	42.00	104.00	0.50	7231669
	GOPR4RA2500R052HBR050M	25.00	25.00	52.00	121.00	0.50	7231675



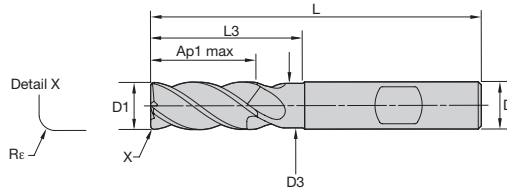
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● Primary
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	Catalog Number	D1	D	D3	AP1 Max	L	L3	Rε	KCU20
NEW	GOPR4RA0300N004HAR020M	3.00	6.00	2.82	4.00	50.00	7.00	0.20	7378942
	GOPR4RA0300N008HAR020M	3.00	6.00	2.82	8.00	57.00	15.00	0.20	7231153
NEW	GOPR4RA0400N005HAR020M	4.00	6.00	3.76	5.00	50.00	8.00	0.20	7378944
	GOPR4RA0400N011HAR020M	4.00	6.00	3.76	11.00	57.00	16.00	0.20	7231154
	GOPR4RA0400N011HAR050M	4.00	6.00	3.76	11.00	57.00	16.00	0.50	7231155
NEW	GOPR4RA0500N006HAR040M	5.00	6.00	4.70	6.00	57.00	18.00	0.40	7378946
	GOPR4RA0500N013HAR020M	5.00	6.00	4.70	13.00	57.00	18.00	0.20	7231156
	GOPR4RA0500N013HAR050M	5.00	6.00	4.70	13.00	57.00	18.00	0.50	7231157
	GOPR4RA0500N013HAR100M	5.00	6.00	4.70	13.00	57.00	18.00	1.00	7231158
NEW	GOPR4RA0600N007HAR040M	6.00	6.00	5.64	7.00	57.00	18.00	0.40	7378949
	GOPR4RA0600N013HAR050M	6.00	6.00	5.64	13.00	57.00	21.00	0.50	7231159
	GOPR4RA0600N013HAR100M	6.00	6.00	5.64	13.00	57.00	21.00	1.00	7231160
	GOPR4RA0600N013HAR150M	6.00	6.00	5.64	13.00	57.00	21.00	1.50	7231161
NEW	GOPR4RA0600N030HAR050M	6.00	6.00	5.64	30.00	76.00	36.00	0.50	7378873
NEW	GOPR4RA0600N030HAR100M	6.00	6.00	5.64	30.00	76.00	36.00	1.00	7378874
NEW	GOPR4RA0800N010HAR040M	8.00	8.00	7.52	10.00	63.00	24.00	0.40	7378951
	GOPR4RA0800N019HAR050M	8.00	8.00	7.52	19.00	63.00	27.00	0.50	7231163
	GOPR4RA0800N019HAR100M	8.00	8.00	7.52	19.00	63.00	27.00	1.00	7231164
	GOPR4RA0800N019HAR150M	8.00	8.00	7.52	19.00	63.00	27.00	1.50	7231165
	GOPR4RA0800N019HAR200M	8.00	8.00	7.52	19.00	63.00	27.00	2.00	7231166
NEW	GOPR4RA0800N032HAR050M	8.00	8.00	7.52	32.00	76.00	40.00	0.50	7378879
NEW	GOPR4RA0800N032HAR100M	8.00	8.00	7.52	32.00	76.00	40.00	1.00	7378880
NEW	GOPR4RA1000N012HAR040M	10.00	10.00	9.40	12.00	72.00	30.00	0.40	7378954
	GOPR4RA1000N022HAR050M	10.00	10.00	9.40	22.00	72.00	32.00	0.50	7231167
	GOPR4RA1000N022HAR100M	10.00	10.00	9.40	22.00	72.00	32.00	1.00	7231168
	GOPR4RA1000N022HAR150M	10.00	10.00	9.40	22.00	72.00	32.00	1.50	7231169
	GOPR4RA1000N022HAR200M	10.00	10.00	9.40	22.00	72.00	32.00	2.00	7231170
	GOPR4RA1000N022HAR250M	10.00	10.00	9.40	22.00	72.00	32.00	2.50	72311645
NEW	GOPR4RA1000N038HAR050M	10.00	10.00	9.40	38.00	89.00	44.00	0.50	7378886
NEW	GOPR4RA1000N038HAR100M	10.00	10.00	9.40	38.00	89.00	44.00	1.00	7378887
NEW	GOPR4RA1200N015HAR050M	12.00	12.00	11.28	15.00	83.00	36.00	0.50	7378956
	GOPR4RA1200N026HAR050M	12.00	12.00	11.28	26.00	83.00	38.00	0.50	7231171
	GOPR4RA1200N026HAR100M	12.00	12.00	11.28	26.00	83.00	38.00	1.00	7231172
	GOPR4RA1200N026HAR150M	12.00	12.00	11.28	26.00	83.00	38.00	1.50	7231173
	GOPR4RA1200N026HAR200M	12.00	12.00	11.28	26.00	83.00	38.00	2.00	7231174
	GOPR4RA1200N026HAR250M	12.00	12.00	11.28	26.00	83.00	38.00	2.50	7231648
	GOPR4RA1200N026HAR300M	12.00	12.00	11.28	26.00	83.00	38.00	3.00	7231649
	GOPR4RA1200N026HAR400M	12.00	12.00	11.28	26.00	83.00	38.00	4.00	7231175
NEW	GOPR4RA1200N050HAR050M	12.00	12.00	11.28	50.00	100.00	60.00	0.50	7378905
NEW	GOPR4RA1200N050HAR100M	12.00	12.00	11.28	50.00	100.00	60.00	1.00	7378906
	GOPR4RA1400N026HAR050M	14.00	14.00	13.16	26.00	89.00	40.00	0.50	7231650
	GOPR4RA1400N026HAR100M	14.00	14.00	13.16	26.00	89.00	40.00	1.00	7231661
NEW	GOPR4RA1600N020HAR050M	16.00	16.00	15.04	20.00	92.00	44.00	0.50	7378958
	GOPR4RA1600N032HAR050M	16.00	16.00	15.04	32.00	92.00	44.00	0.50	7231666
	GOPR4RA1600N032HAR100M	16.00	16.00	15.04	32.00	92.00	44.00	1.00	7231176
	GOPR4RA1600N032HAR200M	16.00	16.00	15.04	32.00	92.00	44.00	2.00	7231177
	GOPR4RA1600N032HAR250M	16.00	16.00	15.04	32.00	92.00	44.00	2.50	7231667
	GOPR4RA1600N032HAR300M	16.00	16.00	15.04	32.00	92.00	44.00	3.00	7231178
	GOPR4RA1600N032HAR400M	16.00	16.00	15.04	32.00	92.00	44.00	4.00	7231179
NEW	GOPR4RA1600N057HAR100M	16.00	16.00	15.04	57.00	125.00	69.00	1.00	7378915
NEW	GOPR4RA1600N057HAR200M	16.00	16.00	15.04	57.00	125.00	69.00	2.00	7378916
NEW	GOPR4RA2000N038HAR050M	20.00	20.00	18.80	25.00	125.00	60.00	0.50	7378960
	GOPR4RA2000N038HAR050M	20.00	20.00	18.80	38.00	104.00	53.00	0.50	7231672
	GOPR4RA2000N038HAR100M	20.00	20.00	18.80	38.00	104.00	53.00	1.00	7231180
	GOPR4RA2000N038HAR200M	20.00	20.00	18.80	38.00	104.00	53.00	2.00	7231181
	GOPR4RA2000N038HAR250M	20.00	20.00	18.8	38.00	104.00	53.00	2.50	7231673
	GOPR4RA2000N038HAR300M	20.00	20.00	18.80	38.00	104.00	53.00	3.00	7231182
	GOPR4RA2000N038HAR400M	20.00	20.00	18.80	38.00	104.00	53.00	4.00	7231183
NEW	GOPR4RA2000N057HAR100M	20.00	20.00	18.80	57.00	125.00	73.00	1.00	7378923
NEW	GOPR4RA2000N057HAR200M	20.00	20.00	18.80	57.00	125.00	73.00	2.00	7378924



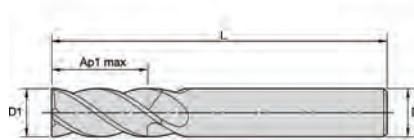
GOmill PRO • Radiused • 4 Flutes • Necked • Weldon Shank • Metric

● Primary
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	Catalog Number	D1	D	D3	AP1 Max	L	L3	Re	KCU20
NEW	GOPR4RA0300N004HBR020M	3.00	6.00	2.82	4.00	50.00	7.00	0.20	7378943
NEW	GOPR4RA0300N008HBR020M	3.00	6.00	2.82	8.00	57.00	15.00	0.20	7378793
NEW	GOPR4RA0400N005HBR020M	4.00	6.00	3.76	5.00	50.00	8.00	0.20	7378945
NEW	GOPR4RA0400N011HBR020M	4.00	6.00	3.76	11.00	57.00	16.00	0.20	7378794
NEW	GOPR4RA0400N011HBR050M	4.00	6.00	3.76	11.00	57.00	16.00	0.50	7378795
NEW	GOPR4RA0400N011HBR100M	4.00	6.00	3.76	11.00	57.00	21.00	1.00	7378796
NEW	GOPR4RA0500N006HBR040M	5.00	6.00	4.70	6.00	57.00	18.00	0.40	7378948
NEW	GOPR4RA0500N013HBR020M	5.00	6.00	4.70	13.00	57.00	18.00	0.20	7378797
NEW	GOPR4RA0500N013HBR050M	5.00	6.00	4.70	13.00	57.00	18.00	0.50	7378798
NEW	GOPR4RA0500N013HBR100M	5.00	6.00	4.70	13.00	57.00	18.00	1.00	7378799
NEW	GOPR4RA0600N007HBR040M	6.00	6.00	5.64	7.00	57.00	18.00	0.40	7378950
NEW	GOPR4RA0600N013HBR050M	6.00	6.00	5.64	13.00	57.00	21.00	0.50	7378800
NEW	GOPR4RA0600N013HBR100M	6.00	6.00	5.64	13.00	57.00	21.00	1.00	7378871
NEW	GOPR4RA0600N013HBR150M	6.00	6.00	5.64	13.00	57.00	21.00	1.50	7378872
NEW	GOPR4RA0800N010HBR040M	8.00	8.00	7.52	10.00	63.00	24.00	0.40	7378952
NEW	GOPR4RA0800N019HBR050M	8.00	8.00	7.52	19.00	63.00	27.00	0.50	7378875
NEW	GOPR4RA0800N019HBR100M	8.00	8.00	7.52	19.00	63.00	27.00	1.00	7378876
NEW	GOPR4RA0800N019HBR150M	8.00	8.00	7.52	19.00	63.00	27.00	1.50	7378877
NEW	GOPR4RA0800N019HBR200M	8.00	8.00	7.52	19.00	63.00	27.00	2.00	7378878
NEW	GOPR4RA1000N012HBR040M	10.00	10.00	9.40	12.00	72.00	30.00	0.40	7378955
NEW	GOPR4RA1000N022HBR050M	10.00	10.00	9.40	22.00	72.00	32.00	0.50	7378881
NEW	GOPR4RA1000N022HBR100M	10.00	10.00	9.40	22.00	72.00	32.00	1.00	7378882
NEW	GOPR4RA1000N022HBR150M	10.00	10.00	9.40	22.00	72.00	32.00	1.50	7378883
NEW	GOPR4RA1000N022HBR200M	10.00	10.00	9.40	22.00	72.00	32.00	2.00	7378884
NEW	GOPR4RA1000N022HBR250M	10.00	10.00	9.40	22.00	72.00	32.00	2.50	7378885
NEW	GOPR4RA1200N015HBR050M	12.00	12.00	11.28	15.00	83.00	36.00	0.50	7378957
NEW	GOPR4RA1200N026HBR050M	12.00	12.00	11.28	26.00	83.00	38.00	0.50	7378888
NEW	GOPR4RA1200N026HBR100M	12.00	12.00	11.28	26.00	83.00	38.00	1.00	7378889
NEW	GOPR4RA1200N026HBR150M	12.00	12.00	11.28	26.00	83.00	38.00	1.50	7378890
NEW	GOPR4RA1200N026HBR200M	12.00	12.00	11.28	26.00	83.00	38.00	2.00	7378901
NEW	GOPR4RA1200N026HBR250M	12.00	12.00	11.28	26.00	83.00	38.00	2.50	7378903
NEW	GOPR4RA1200N026HBR300M	12.00	12.00	11.28	26.00	83.00	38.00	3.00	7378904
NEW	GOPR4RA1200N026HBR400M	12.00	12.00	11.28	26.00	83.00	38.00	4.00	7378902
NEW	GOPR4RA1400N026HBR050M	14.00	14.00	13.16	26.00	89.00	40.00	0.50	7378907
NEW	GOPR4RA1400N026HBR100M	14.00	14.00	13.16	26.00	89.00	40.00	1.00	7378908
NEW	GOPR4RA1600N020HBR050M	16.00	16.00	15.04	20.00	92.00	44.00	0.50	7378959
NEW	GOPR4RA1600N032HBR050M	16.00	16.00	15.04	32.00	92.00	44.00	0.50	7378913
NEW	GOPR4RA1600N032HBR100M	16.00	16.00	15.04	32.00	92.00	44.00	1.00	7378909
NEW	GOPR4RA1600N032HBR200M	16.00	16.00	15.04	32.00	92.00	44.00	2.00	7378910
NEW	GOPR4RA1600N032HBR250M	16.00	16.00	15.04	32.00	92.00	44.00	2.50	7378914
NEW	GOPR4RA1600N032HBR300M	16.00	16.00	15.04	32.00	92.00	44.00	3.00	7378911
NEW	GOPR4RA1600N032HBR400M	16.00	16.00	15.04	32.00	92.00	44.00	4.00	7378912
NEW	GOPR4RA2000N025HBR050M	20.00	20.00	18.80	25.00	125.00	60.00	0.50	7378961
NEW	GOPR4RA2000N038HBR050M	20.00	20.00	18.80	38.00	104.00	53.00	0.50	7378921
NEW	GOPR4RA2000N038HBR100M	20.00	20.00	18.80	38.00	104.00	53.00	1.00	7378917
NEW	GOPR4RA2000N038HBR200M	20.00	20.00	18.80	38.00	104.00	53.00	2.00	7378918
NEW	GOPR4RA2000N038HBR250M	20.00	20.00	18.80	38.00	104.00	53.00	2.50	7378922
NEW	GOPR4RA2000N038HBR300M	20.00	20.00	18.80	38.00	104.00	53.00	3.00	7378919
NEW	GOPR4RA2000N038HBR400M	20.00	20.00	18.80	38.00	104.00	53.00	4.00	7378920



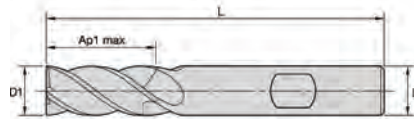
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● Primary
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G0mill PRO • Square End • 4 Flutes • Plain Shank • Metric

	Catalog Number	D1	D	AP1 Max	L	KCU20
NEW	GOPR4SE0150R006HAM	1.50	6.00	6.00	57.00	7378469
	GOPR4SE0200R006HAM	2.00	6.00	6.00	57.00	7230994
	GOPR4SE0300R008HAM	3.00	6.00	8.00	57.00	7231062
	GOPR4SE0400R011HAM	4.00	6.00	11.00	57.00	7231064
	GOPR4SE0500R013HAM	5.00	6.00	13.00	57.00	7231066
	GOPR4SE0600R013HAM	6.00	6.00	13.00	57.00	7231068
	GOPR4SE0800R019HAM	8.00	8.00	19.00	63.00	7231070
	GOPR4SE1000R022HAM	10.00	10.00	22.00	72.00	7231132
	GOPR4SE1000R025HAM	10.00	10.00	25.00	72.00	7231133
	GOPR4SE1200R026HAM	12.00	12.00	26.00	83.00	7231135
	GOPR4SE1200R030HAM	12.00	12.00	30.00	83.00	7231137
	GOPR4SE1400S026HAM	14.00	14.00	26.00	83.00	7231578
	GOPR4SE1600R032HAM	16.00	16.00	32.00	92.00	7231139
	GOPR4SE2000S038HAM	20.00	20.00	38.00	104.00	7231151



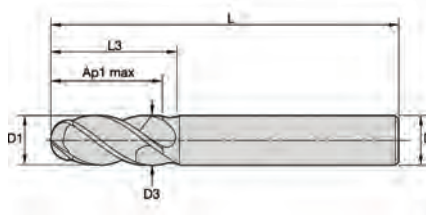
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● Primary
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G0mill PRO • Square End • 4 Flutes • Weldon Shank • Metric

	Catalog Number	D1	D	AP1 Max	L	KCU20
	GOPR4SE0300R008HBM	3.00	6.00	8.00	57.00	7231063
	GOPR4SE0400R011HBM	4.00	6.00	11.00	57.00	7231065
	GOPR4SE0500R013HBM	5.00	6.00	13.00	57.00	7231067
	GOPR4SE0600R013HBM	6.00	6.00	13.00	57.00	7231069
	GOPR4SE0800R019HBM	8.00	8.00	19.00	63.00	7231131
	GOPR4SE1000R022HBM	10.00	10.00	22.00	72.00	7231134
NEW	GOPR4SE1000R025HBM	10.00	10.00	25.00	72.00	7378470
	GOPR4SE1200R026HBM	12.00	12.00	26.00	83.00	7231136
NEW	GOPR4SE1200R030HBM	12.00	12.00	30.00	83.00	7378491
NEW	GOPR4SE1400R026HBM	14.00	14.00	26.00	83.00	7378492
	GOPR4SE1600R032HBM	16.00	16.00	32.00	92.00	7231140
	GOPR4SE2000S038HBM	20.00	20.00	38.00	104.00	7231152



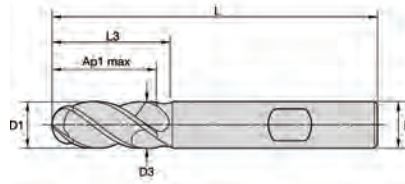
GOmill PRO • Ball Nose • 4 Flutes • Necked • Plain Shank • Metric

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Catalog Number	D1	D	D3	AP1 Max	L	L3	KCU20
GOPR4BN0500R013HAM	5.00	6.00	4.70	13.00	57.00	18.00	7231264
GOPR4BN0600R013HAM	6.00	6.00	5.64	13.00	57.00	21.00	7231266
GOPR4BN0800R019HAM	8.00	8.00	7.52	19.00	63.00	27.00	7231268
GOPR4BN1000R022HAM	10.00	10.00	9.40	22.00	72.00	32.00	7231270
GOPR4BN1200R026HAM	12.00	12.00	11.28	26.00	83.00	30.00	7231272
GOPR4BN1600R032HAM	16.00	16.00	15.04	32.00	92.00	38.00	7231274
GOPR4BN2000S038HAM	20.00	20.00	18.80	38.00	104.00	50.00	7231276



GOmill PRO • Ball Nose • 4 Flutes • Necked • Weldon Shank • Metric

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Catalog Number	D1	D	D3	AP1 Max	L	L3	KCU20
GOPR4BN0500R013HBM	5.00	6.00	4.70	13.00	57.00	18.00	7231265
GOPR4BN0600R013HBM	6.00	6.00	5.64	13.00	57.00	21.00	7231267
GOPR4BN0800R019HBM	8.00	8.00	7.52	19.00	63.00	27.00	7231269
GOPR4BN1000R022HBM	10.00	10.00	9.40	22.00	72.00	32.00	7231271
GOPR4BN1200R026HBM	12.00	12.00	11.28	26.00	83.00	30.00	7231273
GOPR4BN1600R032HBM	16.00	16.00	15.04	32.00	92.00	38.00	7231275
GOPR4BN2000S038HBM	20.00	20.00	18.80	38.00	104.00	50.00	7231277



GOmill PRO
Application Data • Regular • Metric

Material Group	Side Milling		Slotting		KCU20 Cutting Speed Vc m/min		Recommended Feed per Tooth (Fz=mm/th) is for Side Milling (A), For Slotting (B) Reduce Fz by 20%.													
	ap	ae	ap	Min	Max	mm	D1 - Diameter													
							2.0	3.0	4.0	5.0	6.0	8.0	10.0	12.0	14.0	16.0	18.0	20.0	25.0	
P	P0	Ap1Max	0.4xD	1xD	150	200	Fz	0.014	0.021	0.028	0.036	0.044	0.060	0.072	0.083	0.092	0.101	0.108	0.114	0.124
	P1	Ap1Max	0.4xD	1xD	150	200	Fz	0.014	0.021	0.028	0.036	0.044	0.060	0.072	0.083	0.092	0.101	0.108	0.114	0.124
	P2	Ap1Max	0.4xD	1xD	140	190	Fz	0.014	0.021	0.028	0.036	0.044	0.060	0.072	0.083	0.092	0.101	0.108	0.114	0.124
	P3	Ap1Max	0.4xD	1xD	120	160	Fz	0.011	0.017	0.023	0.030	0.036	0.050	0.061	0.070	0.079	0.087	0.095	0.101	0.114
	P4	Ap1Max	0.4xD	0.75xD	90	150	Fz	0.010	0.016	0.021	0.027	0.033	0.045	0.054	0.062	0.070	0.077	0.083	0.088	0.098
	P5	Ap1Max	0.4xD	1xD	60	100	Fz	0.009	0.014	0.019	0.024	0.029	0.040	0.048	0.056	0.063	0.070	0.076	0.081	0.091
M	P6	Ap1Max	0.4xD	0.75xD	50	75	Fz	0.008	0.012	0.016	0.020	0.025	0.034	0.040	0.047	0.052	0.057	0.061	0.065	0.071
	M1	Ap1Max	0.4xD	1xD	90	115	Fz	0.011	0.017	0.023	0.030	0.036	0.050	0.061	0.070	0.079	0.087	0.095	0.101	0.114
	M2	Ap1Max	0.4xD	1xD	60	80	Fz	0.009	0.014	0.019	0.024	0.029	0.040	0.048	0.056	0.063	0.070	0.076	0.081	0.091
K	M3	Ap1Max	0.4xD	1xD	60	70	Fz	0.008	0.012	0.016	0.020	0.025	0.034	0.040	0.047	0.052	0.057	0.061	0.065	0.071
	K1	Ap1Max	0.4xD	1xD	120	150	Fz	0.014	0.021	0.028	0.036	0.044	0.060	0.072	0.083	0.092	0.101	0.108	0.114	0.124
	K2	Ap1Max	0.4xD	1xD	110	140	Fz	0.011	0.017	0.023	0.030	0.036	0.050	0.061	0.070	0.079	0.087	0.095	0.101	0.114
S	K3	Ap1Max	0.4xD	1xD	110	130	Fz	0.009	0.014	0.019	0.024	0.029	0.040	0.048	0.056	0.063	0.070	0.076	0.081	0.091
	S1	Ap1Max	0.4xD	0.3xD	50	90	Fz	0.011	0.017	0.023	0.030	0.036	0.050	0.061	0.070	0.079	0.087	0.095	0.101	0.114
	S2	Ap1Max	0.4xD	0.3xD	25	50	Fz	0.006	0.009	0.013	0.016	0.019	0.026	0.032	0.037	0.042	0.046	0.050	0.054	0.061
	S3	Ap1Max	0.4xD	1xD	25	40	Fz	0.006	0.009	0.013	0.016	0.019	0.026	0.032	0.037	0.042	0.046	0.050	0.054	0.061
H	S4	Ap1Max	0.4xD	1xD	50	60	Fz	0.007	0.011	0.016	0.021	0.026	0.037	0.045	0.052	0.058	0.064	0.069	0.074	0.084
	H1	Ap1Max	0.4xD	0.75xD	80	140	Fz	0.010	0.016	0.021	0.027	0.033	0.045	0.054	0.062	0.070	0.077	0.083	0.088	0.098
	H2	Ap1Max	0.4xD	0.5xD	70	120	Fz	0.008	0.012	0.016	0.020	0.025	0.034	0.040	0.047	0.052	0.057	0.061	0.065	0.071

NOTE:

These guidelines may require variations to achieve optimum results.

Lower value of cutting speed is used for high stock removal applications or for higher hardness (machinability) within group.

Higher value of cutting speed is used for finishing applications or for lower hardness (machinability) within group.

Above parameters are based on ideal conditions. For smaller taper machining centers, please adjust parameters accordingly on diameters greater than 12mm.

For better surface finish reduce feed per tooth.

Side milling applications - for longest reach (L3) tools, reduce Ae by 30%.

Slot milling applications - for longest reach (L3) tools, reduce Ae by 30%.

Sharp corner tools are not recommended for slotting applications.

GOmill PRO
Application Data • Adjustment Factor Table for Feed and Speed Calculation • Metric

	Ae/D	2%	4%	5%	8%	10%	12%	20%	30%	40%
Speed Factor	Kv	2-3.3	1.45- 2.73	1.45-2.27	1.45	1.27	1.25	1.18	1.09	1.00
Feed Factor	KFz	3.51	2.51	2.25	1.80	1.64	1.51	1.23	1.07	1.00
phi [°]		16.26	23.07	25.84	32.86	36.87	40.54	53.13	66.42	78.46

NOTE:

These calculations are for roughing/semi-finishing cuts when used with the recommended base fz.

For light finishing cuts requiring improved surface quality it is recommended to reduce the base fz approximately 50% and then apply these factors.

For an Ae/D ratio of 5% or less there is range given for speed factor Kv, which allows the user to either be more conservative at the lower value or more aggressive with the higher value.

This can also be considered based on machinability of the material, from difficult to free cutting.

To calculate application specific cutting data, please use above Kv coefficient for adaptation of cutting speed and KFz for feed respectively.

Vc new=Vc*Kv
Fz new=Fz*KFz

Calculation Example:

Application:	D1=	14.0mm
	Material Group	P5
	Ae=	20% of D
Cutting data recommendation:	Vc=	80 m/min
	Fz=	0.063 mm/th
Adjustment coefficient:	Kv=	1.18
	KFz=	1.23

Final cutting data recommendation:

Vc new= 80 * 1.18 = 94.40 m/min
Fz new= 0.063 * 1.23 = 0.078 mm/th



GOmill PRO

Application Data • Ramping • Metric

Material Group	Helical Interpolation / Ramping 0°- 5°	Recommended feed per tooth (fz = mm/z) for Helical Interpolation and Ramping - Zef=2																		
		KCU20		D1 - Diameter																
		Cutting Speed Vc		min-max	2.3-4.3	3.5-6.5	4.6-7.6	5.8-9.5	6.9-11.4	8.1-13.3	9.2-15.2	9.2-15.2	11.5-19.0	13.8-22.8	16.1-26.6	18.4-30.4	20.7-34.2	23.0-38.0	28.8-47.5	
		Max Depth	Min		Max	mm	2.0	3.0	4.0	5.0	6.0	7.0	8.0	9.0	10.0	12.0	14.0	16.0	18.0	20.0
P	P0	1.25 x D1	150	200	Fz	0.015	0.023	0.031	0.040	0.048	0.057	0.066	0.073	0.079	0.091	0.102	0.111	0.119	0.125	0.136
	P1	1.25 x D1	150	200	Fz	0.015	0.023	0.031	0.040	0.048	0.057	0.066	0.073	0.079	0.091	0.102	0.111	0.119	0.125	0.136
	P2	1.25 x D1	140	190	Fz	0.015	0.023	0.031	0.040	0.048	0.057	0.066	0.073	0.079	0.091	0.102	0.111	0.119	0.125	0.136
	P3	1.25 x D1	120	160	Fz	0.012	0.019	0.026	0.033	0.040	0.047	0.055	0.061	0.067	0.077	0.087	0.096	0.104	0.111	0.125
	P4	1.25 x D1	90	150	Fz	0.012	0.017	0.024	0.030	0.036	0.043	0.049	0.054	0.059	0.069	0.077	0.084	0.091	0.097	0.107
	P5	1.25 x D1	60	100	Fz	0.010	0.016	0.021	0.027	0.032	0.038	0.044	0.049	0.053	0.062	0.070	0.077	0.083	0.089	0.100
M	M1	1.25 x D1	90	115	Fz	0.012	0.019	0.026	0.033	0.040	0.047	0.055	0.061	0.067	0.077	0.087	0.096	0.104	0.111	0.125
	M2	1.25 x D1	60	80	Fz	0.010	0.016	0.021	0.027	0.032	0.038	0.044	0.049	0.053	0.062	0.070	0.077	0.083	0.089	0.100
	M3	1.0 x D1	60	70	Fz	0.009	0.013	0.018	0.022	0.027	0.032	0.037	0.041	0.044	0.051	0.057	0.063	0.067	0.071	0.078
K	K1	1.0 x D1	120	150	Fz	0.015	0.023	0.031	0.040	0.048	0.057	0.066	0.073	0.079	0.091	0.102	0.111	0.119	0.125	0.136
	K2	1.0 x D1	110	140	Fz	0.012	0.019	0.026	0.033	0.040	0.047	0.055	0.061	0.067	0.077	0.087	0.096	0.104	0.111	0.125
	K3	1.0 x D1	110	130	Fz	0.010	0.016	0.021	0.027	0.032	0.038	0.044	0.049	0.053	0.062	0.070	0.077	0.083	0.089	0.100
S	S1	0.75 x D1	50	90	Fz	0.012	0.019	0.026	0.033	0.040	0.047	0.055	0.061	0.067	0.077	0.087	0.096	0.104	0.111	0.125
	S2	0.75 x D1	25	50	Fz	0.007	0.010	0.014	0.018	0.021	0.025	0.029	0.032	0.035	0.041	0.046	0.051	0.055	0.059	0.067
	S3	0.5 x D1	25	40	Fz	0.007	0.010	0.014	0.018	0.021	0.025	0.029	0.032	0.035	0.041	0.046	0.051	0.055	0.059	0.067
	S4	1.25 x D1	50	60	Fz	0.008	0.013	0.017	0.023	0.028	0.034	0.040	0.045	0.049	0.057	0.064	0.071	0.076	0.082	0.092
H	H1	1.0 x D1	80	140	Fz	0.012	0.017	0.024	0.030	0.036	0.043	0.049	0.054	0.059	0.069	0.077	0.084	0.091	0.097	0.107
	H2	1.0 x D1	70	120	Fz	0.009	0.013	0.018	0.022	0.027	0.032	0.037	0.041	0.044	0.051	0.057	0.063	0.067	0.071	0.078



GOmill PRO

Application Data • Long • Metric

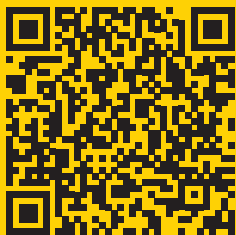
Material Group	KCU20		Recommended Feed per Tooth (Fz=mm/th) is for Side Milling (A). No Slotting operations recommended.																
	Cutting Speed Vc		D1 - Diameter																
	ap	ae	Min	Max	mm	2.0	3.0	4.0	5.0	6.0	8.0	10.0	12.0	14.0	18.0	20.0	25.0		
P	P0	Ap1Max	0.2xD	150	200	Fz	0.014	0.021	0.028	0.036	0.044	0.060	0.072	0.083	0.092	0.108	0.114	0.124	
	P1	Ap1Max	0.2xD	150	200	Fz	0.014	0.021	0.028	0.036	0.044	0.060	0.072	0.083	0.092	0.108	0.114	0.124	
	P2	Ap1Max	0.2xD	140	190	Fz	0.014	0.021	0.028	0.036	0.044	0.060	0.072	0.083	0.092	0.108	0.114	0.124	
	P3	Ap1Max	0.2xD	120	160	Fz	0.011	0.017	0.023	0.030	0.036	0.050	0.061	0.070	0.079	0.095	0.101	0.114	
	P4	Ap1Max	0.2xD	90	150	Fz	0.010	0.016	0.021	0.027	0.033	0.045	0.054	0.062	0.070	0.083	0.088	0.098	
	P5	Ap1Max	0.2xD	60	100	Fz	0.009	0.014	0.019	0.024	0.029	0.040	0.048	0.056	0.063	0.076	0.081	0.091	
M	M1	Ap1Max	0.15xD	50	75	Fz	0.008	0.012	0.016	0.020	0.025	0.034	0.040	0.047	0.052	0.061	0.065	0.071	
	M2	Ap1Max	0.2xD	90	115	Fz	0.011	0.017	0.023	0.030	0.036	0.050	0.061	0.070	0.079	0.095	0.101	0.114	
	M3	Ap1Max	0.2xD	60	80	Fz	0.009	0.014	0.019	0.024	0.029	0.040	0.048	0.056	0.063	0.076	0.081	0.091	
K	K1	Ap1Max	0.2xD	120	150	Fz	0.014	0.021	0.028	0.036	0.044	0.060	0.072	0.083	0.092	0.108	0.114	0.124	
	K2	Ap1Max	0.2xD	110	140	Fz	0.011	0.017	0.023	0.030	0.036	0.050	0.061	0.070	0.079	0.095	0.101	0.114	
	K3	Ap1Max	0.2xD	110	130	Fz	0.009	0.014	0.019	0.024	0.029	0.040	0.048	0.056	0.063	0.076	0.081	0.091	
S	S1	Ap1Max	0.1xD	50	90	Fz	0.011	0.017	0.023	0.030	0.036	0.050	0.061	0.070	0.079	0.095	0.101	0.114	
	S2	Ap1Max	0.1xD	25	50	Fz	0.006	0.009	0.013	0.016	0.019	0.026	0.032	0.037	0.042	0.050	0.054	0.061	
	S3	Ap1Max	0.1xD	25	40	Fz	0.006	0.009	0.013	0.016	0.019	0.026	0.032	0.037	0.042	0.050	0.054	0.061	
	S4	Ap1Max	0.15xD	50	60	Fz	0.007	0.011	0.016	0.021	0.026	0.037	0.045	0.052	0.058	0.069	0.074	0.084	
H	H1	Ap1Max	0.15xD	80	140	Fz	0.010	0.016	0.021	0.027	0.033	0.045	0.054	0.062	0.070	0.083	0.088	0.098	
	H2	Ap1Max	0.15xD	70	120	Fz	0.008	0.012	0.016	0.020	0.025	0.034	0.040	0.047	0.052	0.061	0.065	0.071	

NOTE:
 These guidelines may require variations to achieve optimum results.
 Lower value of cutting speed is used for high stock removal applications or for higher hardness (machinability) within group.
 Higher value of cutting speed is used for finishing applications or for lower hardness (machinability) within group.
 For better surface finish reduce feed per tooth.

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