

➤ GOMill™ GP General Purpose Solid Carbide End Mills • 3 Flute

Primary Application

The GOMill GP series offers plunging, slotting, and profiling with long tool life on a wide range of materials. Designed to provide high Metal Removal Rates (MRR) and to achieve good surface conditions at excellent cost-benefit ratio. A wide range of diameters and lengths with sharp edge are available from stock.

- Roughing and finishing with one tool.
- Excellent cost-benefit ratio.
- Multilayer KC633M™ grades for long tool life.

Features and Benefits

Advanced Technology

- Roughing and finishing with one tool reduces tool changes and unnecessary tooling inventory.
- Eccentric relief increases edge stability for longer tool life and better surface quality.
- Eccentric relief eases regrinding and enables higher flexibility and lower reconditioning cost.
- 3-flute design for maximum manufacturing flexibility.

Tailored Grade

- Universal multilayer KC633M coating for cutting steel, cast iron, and stainless steel (wet).

Customisation

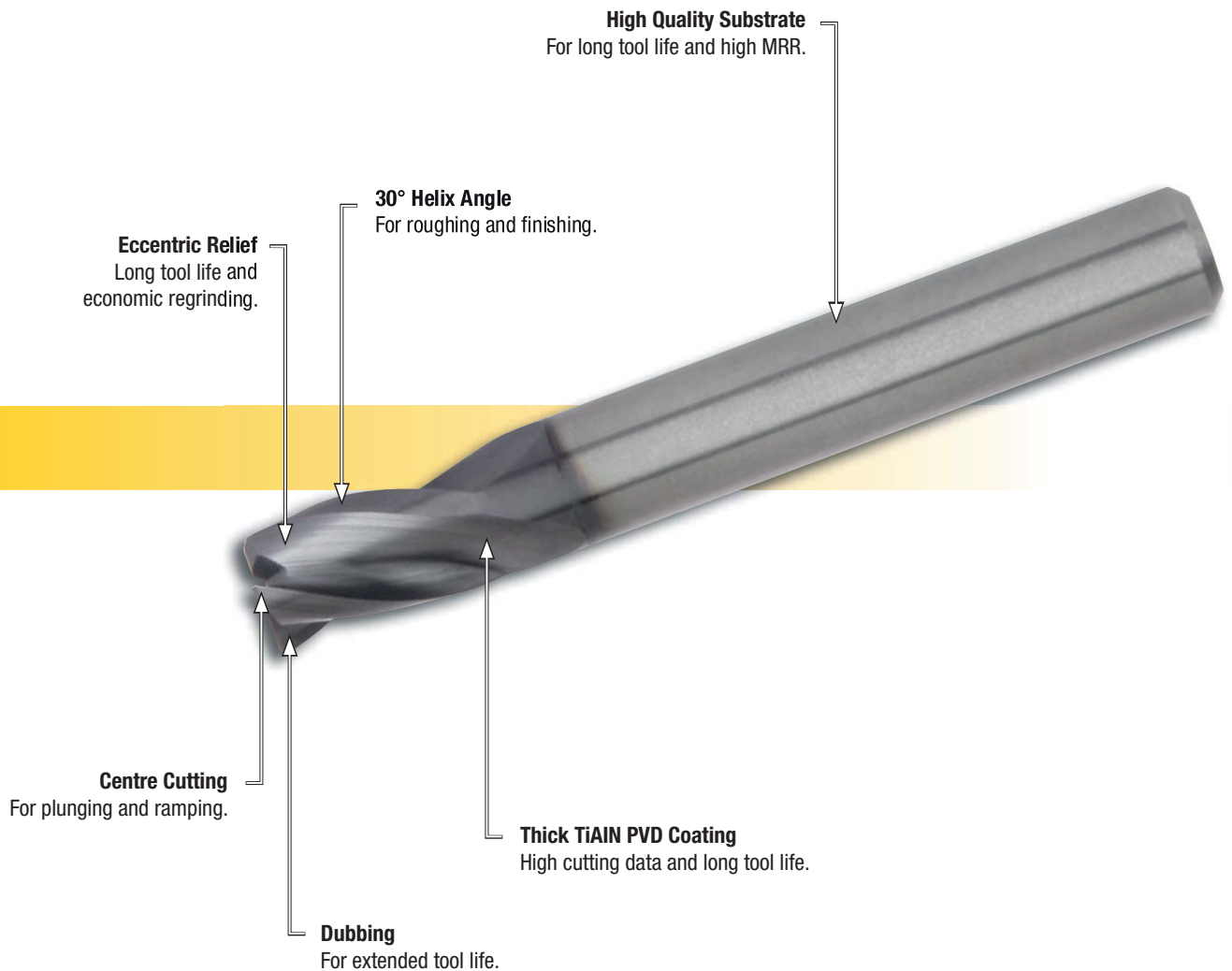
- Intermediate diameters available.

Extensive Standard Offering

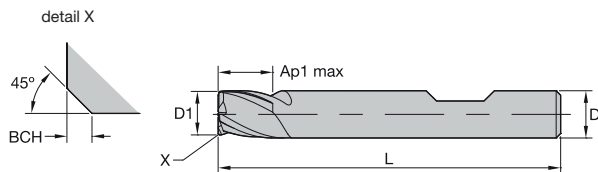
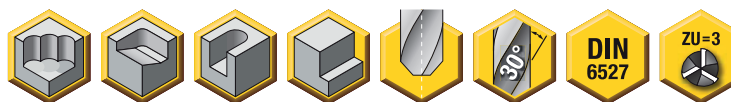
- Diameter range 1–20mm.
- Chamfered edge as standard offering.
- Four different lengths as DIN and factory standards in stock.



Designed for roughing and finishing with one tool at an economical price.



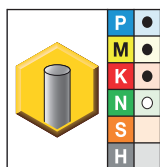
- Centre cutting.



End Mill Tolerances

D1	tolerance e8	D	tolerance h6 +/-
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3-6	-0,020/-0,038	> 3-6	0/0,008
> 6-10	-0,025/-0,047	> 6-10	0/0,009
> 10-18	-0,032/-0,059	> 10-18	0/0,011
> 18-30	-0,040/-0,073	> 18-30	0/0,013

■ 3CH..DK-DL • 3 Flute • Metric

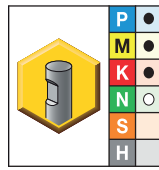
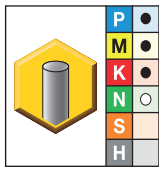


- first choice
- alternate choice

KC633M	KC633M	D1	D	length of cut Ap1 max	length L	BCH
3CH0200DL006A	3CH0200DL006B	2,0	6	6,00	57	—
3CH0250DK003A	3CH0250DK003B	2,5	6	3,00	50	—
3CH0250DL007A	3CH0250DL007B	2,5	6	7,00	57	—
3CH0300DK004A	3CH0300DK004B	3,0	6	4,00	50	—
3CH0300DL007A	3CH0300DL007B	3,0	6	7,00	57	—
3CH0350DK004A	3CH0350DK004B	3,5	6	4,00	50	—
3CH0350DL007A	3CH0350DL007B	3,5	6	7,00	57	—
3CH0400DK005A	3CH0400DK005B	4,0	6	5,00	54	0,10
3CH0400DL008A	3CH0400DL008B	4,0	6	8,00	57	0,10
3CH0450DK005A	3CH0450DK005B	4,5	6	5,00	54	0,10
3CH0450DL008A	3CH0450DL008B	4,5	6	8,00	57	0,10
3CH0500DK006A	3CH0500DK006B	5,0	6	6,00	54	0,10
3CH0500DL010A	3CH0500DL010B	5,0	6	10,00	57	0,10
3CH0550DK007A	3CH0550DK007B	5,5	6	7,00	54	0,10
3CH0550DL010A	3CH0550DL010B	5,5	6	10,00	57	0,10
3CH0600DK007A	3CH0600DK007B	6,0	6	7,00	54	0,10
3CH0600DL010A	3CH0600DL010B	6,0	6	10,00	57	0,10
3CH0700DK008A	3CH0700DK008B	7,0	8	8,00	58	0,10
3CH0700DL013A	3CH0700DL013B	7,0	8	13,00	63	0,10
3CH0800DK009A	3CH0800DK009B	8,0	8	9,00	58	0,20
3CH0800DL016A	3CH0800DL016B	8,0	8	16,00	63	0,20
3CH1000DK011A	3CH1000DK011B	10,0	10	11,00	66	0,20
3CH1000DL019A	3CH1000DL019B	10,0	10	19,00	72	0,20
3CH1200DK012A	3CH1200DK012B	12,0	12	12,00	73	0,30

(continued)

(3CH..DK-DL • 3 Flute • Metric — continued)



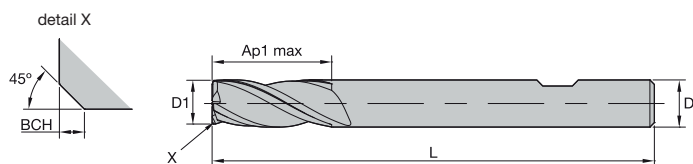
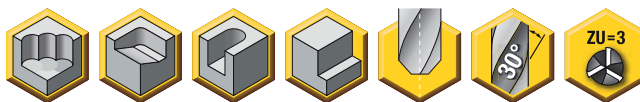
- first choice
- alternate choice

KC633M	KC633M	D1	D	length of cut Ap1 max	length L	BCH
3CH1200DL022A	3CH1200DL022B	12,0	12	22,00	83	0,30
3CH1400DK014A	3CH1400DK014B	14,0	14	14,00	75	0,30
3CH1400DL022A	3CH1400DL022B	14,0	14	22,00	83	0,30
3CH1600DK016A	3CH1600DK016B	16,0	16	16,00	82	0,30
3CH1600DL026A	3CH1600DL026B	16,0	16	26,00	92	0,30
3CH1800DK018A	3CH1800DK018B	18,0	18	18,00	84	0,30
3CH1800DL026A	3CH1800DL026B	18,0	18	26,00	92	0,30
3CH2000DK020A	3CH2000DK020B	20,0	20	20,00	92	0,30
3CH2000DL032A	3CH2000DL032B	20,0	20	32,00	104	0,30

NOTE: For application data, please see page Q21.



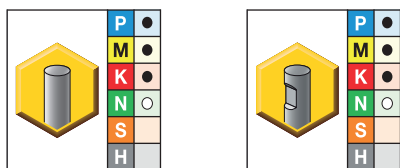
- Centre cutting.



End Mill Tolerances

D1	tolerance e8	D	tolerance h6 + / -
≤ 3	-0,014/-0,028	≤ 3	0/0,006
> 3-6	-0,020/-0,038	> 3-6	0/0,008
> 6-10	-0,025/-0,047	> 6-10	0/0,009
> 10-18	-0,032/-0,059	> 10-18	0/0,011
> 18-30	-0,040/-0,073	> 18-30	0/0,013

■ 3CH..MS-MX • 3 Flute • Metric



- first choice
- alternate choice

KC633M	KC633M	D1	D	length of cut Ap1 max	length L	BCH
3CH0100MS004A	—	1,0	3	4,00	38	—
3CH0150MS004A	—	1,5	3	4,00	38	—
3CH0200MS006A	—	2,0	3	6,30	38	—
3CH0250MS006A	—	2,5	3	6,30	38	—
3CH0300MS009A	—	3,0	3	9,50	38	—
3CH0300MX019A	3CH0300MX019B	3,0	6	19,00	63	—
3CH0400MS012A	—	4,0	4	12,00	50	0,10
3CH0400MX019A	—	4,0	4	19,00	63	0,10
3CH0500MX020A	3CH0500MX020B	5,0	6	20,00	63	0,10
3CH0600MS016A	3CH0600MS016B	6,0	6	16,00	50	0,10
3CH0600MX028A	3CH0600MX028B	6,0	6	28,00	75	0,10
3CH0800MS019A	—	8,0	8	19,00	63	0,20
3CH0800MX028A	3CH0800MX028B	8,0	8	28,00	75	0,20
3CH1000MS022A	3CH1000MS022B	10,0	10	22,00	76	0,20
3CH1000MX032A	3CH1000MX032B	10,0	10	32,00	89	0,20
3CH1200MS025A	3CH1200MS025B	12,0	12	25,00	75	0,30
3CH1200MX045A	3CH1200MX045B	12,0	12	45,00	100	0,30
3CH1600MS032A	3CH1600MS032B	16,0	16	32,00	89	0,30
3CH1600MX056A	3CH1600MX056B	16,0	16	56,00	110	0,30
3CH2000MX064A	3CH2000MX064B	20,0	20	64,00	125	0,30

NOTE: For application data, please see page Q21.

■ GOMill • GP 3CH..DK-DL-MS • 3 Flute • Short • Regular

Material Group																					
	Side Milling (A) and Slotting (B)			KC633M			Recommended feed per tooth (fz = mm/th) for side milling (A). For slotting (B), reduce fz by 20%.														
	A		B	Cutting Speed – vc m/min			D1 – Diameter														
	ap	ae	ap	min	max	mm	1,0	2,0	3,0	4,0	5,0	6,0	8,0	10,0	12,0	14,0	16,0	18,0	20,0		
P	0	Ap1 max	0,1 x D	0,5 x D	150	–	200	fz	0,007	0,014	0,021	0,028	0,036	0,044	0,060	0,072	0,083	0,092	0,101	0,108	0,114
	1	Ap1 max	0,1 x D	0,5 x D	150	–	200	fz	0,007	0,014	0,021	0,028	0,036	0,044	0,060	0,072	0,083	0,092	0,101	0,108	0,114
	2	Ap1 max	0,1 x D	0,5 x D	140	–	190	fz	0,007	0,014	0,021	0,028	0,036	0,044	0,060	0,072	0,083	0,092	0,101	0,108	0,114
	3	Ap1 max	0,1 x D	0,5 x D	120	–	160	fz	0,006	0,011	0,017	0,023	0,030	0,036	0,050	0,061	0,070	0,079	0,087	0,095	0,101
M	4	Ap1 max	0,1 x D	0,5 x D	90	–	150	fz	0,005	0,010	0,016	0,021	0,027	0,033	0,045	0,054	0,062	0,070	0,077	0,083	0,088
	1	Ap1 max	0,1 x D	0,5 x D	90	–	115	fz	0,006	0,011	0,017	0,023	0,030	0,036	0,050	0,061	0,070	0,079	0,087	0,095	0,101
K	2	Ap1 max	0,1 x D	0,5 x D	60	–	80	fz	0,005	0,009	0,014	0,019	0,024	0,029	0,040	0,048	0,056	0,063	0,070	0,076	0,081
	1	Ap1 max	0,1 x D	0,5 x D	120	–	150	fz	0,007	0,014	0,021	0,028	0,036	0,044	0,060	0,072	0,083	0,092	0,101	0,108	0,114
N	2	Ap1 max	0,1 x D	0,5 x D	110	–	140	fz	0,006	0,011	0,017	0,023	0,030	0,036	0,050	0,061	0,070	0,079	0,087	0,095	0,101
	1	Ap1 max	0,1 x D	0,5 x D	250	–	1000	fz	0,010	0,020	0,030	0,040	0,050	0,060	0,080	0,100	0,120	0,140	0,160	0,180	0,200
	2	Ap1 max	0,1 x D	0,5 x D	250	–	750	fz	0,008	0,016	0,024	0,032	0,040	0,048	0,064	0,080	0,096	0,112	0,128	0,144	0,160
	4	Ap1 max	0,1 x D	0,5 x D	250	–	750	fz	0,009	0,018	0,027	0,036	0,045	0,054	0,072	0,090	0,108	0,126	0,144	0,162	0,180

NOTE: 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 centres, please adjust parameters accordingly on diameters >12mm.

■ GOMill • GP 3CH..MX • 3 Flute • Long

Material Group																				
	Side Milling (A)			KC633M			Recommended feed per tooth (fz = mm/th) for side milling (A).													
	A		Cutting Speed – vc m/min			D1 – Diameter														
	ap	ae	min	max	mm	1,0	2,0	3,0	4,0	5,0	6,0	8,0	10,0	12,0	14,0	16,0	18,0	20,0		
P	0	Ap1 max	0,1 x D	150	–	200	fz	0,007	0,014	0,021	0,028	0,036	0,044	0,060	0,072	0,083	0,092	0,101	0,108	0,114
	1	Ap1 max	0,1 x D	150	–	200	fz	0,007	0,014	0,021	0,028	0,036	0,044	0,060	0,072	0,083	0,092	0,101	0,108	0,114
	2	Ap1 max	0,1 x D	140	–	190	fz	0,007	0,014	0,021	0,028	0,036	0,044	0,060	0,072	0,083	0,092	0,101	0,108	0,114
	3	Ap1 max	0,1 x D	120	–	160	fz	0,006	0,011	0,017	0,023	0,030	0,036	0,050	0,061	0,070	0,079	0,087	0,095	0,101
M	4	Ap1 max	0,1 x D	90	–	150	fz	0,005	0,010	0,016	0,021	0,027	0,033	0,045	0,054	0,062	0,070	0,077	0,083	0,088
	1	Ap1 max	0,1 x D	90	–	115	fz	0,006	0,011	0,017	0,023	0,030	0,036	0,050	0,061	0,070	0,079	0,087	0,095	0,101
K	2	Ap1 max	0,1 x D	60	–	80	fz	0,005	0,009	0,014	0,019	0,024	0,029	0,040	0,048	0,056	0,063	0,070	0,076	0,081
	1	Ap1 max	0,1 x D	120	–	150	fz	0,007	0,014	0,021	0,028	0,036	0,044	0,060	0,072	0,083	0,092	0,101	0,108	0,114
N	2	Ap1 max	0,1 x D	110	–	140	fz	0,006	0,011	0,017	0,023	0,030	0,036	0,050	0,061	0,070	0,079	0,087	0,095	0,101
	1	Ap1 max	0,1 x D	250	–	1000	fz	0,010	0,020	0,030	0,040	0,050	0,060	0,080	0,100	0,120	0,140	0,160	0,180	0,200
	2	Ap1 max	0,1 x D	250	–	750	fz	0,008	0,016	0,024	0,032	0,040	0,048	0,064	0,080	0,096	0,112	0,128	0,144	0,160
	4	Ap1 max	0,1 x D	250	–	750	fz	0,009	0,018	0,027	0,036	0,045	0,054	0,072	0,090	0,108	0,126	0,144	0,162	0,180

NOTE: 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 centres, please adjust parameters accordingly on diameters >12mm.