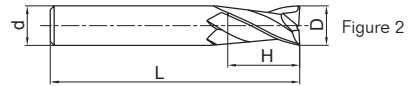
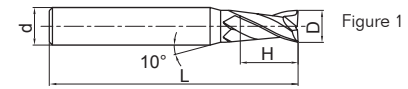


Solid Carbide End Mills

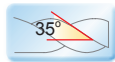
GM series for general machining

MILLING

2-flute flattened end mills with straight shank



- Very suitable for slot milling
- Wide application.



Ordering number	Basic dimension(mm)				Number of teeth Z	Geometry
	D	d	H	L		
GM-2E-D1.0S	1.0	4	3	50	2	Figure 1
GM-2E-D1.5S	1.5	4	4	50	2	Figure 1
GM-2E-D2.0S	2.0	4	6	50	2	Figure 1
GM-2E-D2.5S	2.5	4	8	50	2	Figure 1
GM-2E-D3.0S	3.0	4	8	50	2	Figure 1
GM-2E-D4.0S	4.0	4	11	50	2	Figure 2
GM-2E-D1.0	1.0	6	3	50	2	Figure 1
GM-2E-D1.5	1.5	6	4	50	2	Figure 1
GM-2E-D2.0	2.0	6	6	50	2	Figure 1
GM-2E-D2.5	2.5	6	8	50	2	Figure 1
GM-2E-D3.0	3.0	6	8	50	2	Figure 1
GM-2E-D3.5	3.5	6	10	50	2	Figure 1
GM-2E-D4.0	4.0	6	11	50	2	Figure 1
GM-2E-D4.5	4.5	6	11	50	2	Figure 1
GM-2E-D5.0	5.0	6	13	50	2	Figure 1
GM-2E-D5.5	5.5	6	16	50	2	Figure 1
GM-2E-D6.0	6.0	6	16	50	2	Figure 2
GM-2E-D7.0	7.0	8	20	60	2	Figure 1
GM-2E-D8.0	8.0	8	20	60	2	Figure 2
GM-2E-D9.0	9.0	10	22	75	2	Figure 1
GM-2E-D10.0	10.0	10	25	75	2	Figure 2
GM-2E-D11.0	11.0	12	26	75	2	Figure 1
GM-2E-D12.0	12.0	12	30	75	2	Figure 2
GM-2E-D14.0	14.0	14	32	75	2	Figure 2
GM-2E-D16.0	16.0	16	45	100	2	Figure 2
GM-2E-D18.0	18.0	18	45	100	2	Figure 2
GM-2E-D20.0	20.0	20	45	100	2	Figure 2

Applicable material table

○ Very suitable ○ Suitable

Workpiece material											
Carbon steel	Alloy steel	Pre-hardened steel, Hardened steel				Stainless steel	Cast iron, Nodular cast iron	Copper alloy	Aluminum alloy	Titanium alloy	Heat resistant alloy
		~40HRC	~50HRC	~60HRC	~68HRC						
○	○	○	○			○	○			○	○



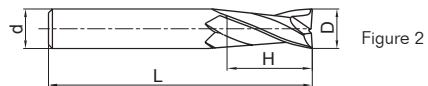
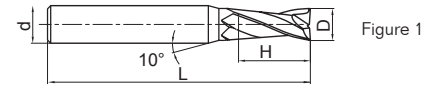
B

Indexable milling tools

Solid carbide end mills

GM series

2-flute flattened end mills with straight shank and long cutting edge



● GM-2E series with long cutting edge.



Ordering number	Basic dimension(mm)				Number of teeth Z	Geometry
	D	d	H	L		
GM-2EL-D3.0	3.0	6	12	75	2	Figure 1
GM-2EL-D4.0	4.0	6	15	75	2	Figure 1
GM-2EL-D5.0	5.0	6	20	75	2	Figure 1
GM-2EL-D6.0	6.0	6	20	75	2	Figure 2
GM-2EL-D8.0	8.0	8	25	100	2	Figure 2
GM-2EL-D10.0	10.0	10	30	100	2	Figure 2
GM-2EL-D12.0	12.0	12	35	100	2	Figure 2
GM-2EL-D14.0	14.0	14	40	100	2	Figure 2
GM-2EL-D16.0	16.0	16	50	150	2	Figure 2
GM-2EL-D20.0	20.0	20	55	150	2	Figure 2

Applicable material table

⊙Very suitable ○Suitable

Workpiece material											
Carbon steel	Alloy steel	Pre-hardened steel, Hardened steel				Stainless steel	Cast iron, Nodular cast iron	Copper alloy	Aluminum alloy	Titanium alloy	Heat resistant alloy
		~40HRC	~50HRC	~60HRC	~68HRC						
⊙	⊙	⊙	⊙			○	⊙			○	○

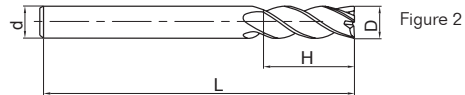
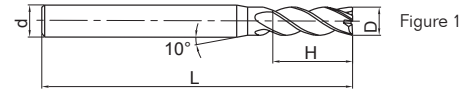


Solid Carbide End Mills

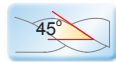
GM series for general machining

MILLING

4-flute flattened end mills with straight shank



- For side milling and shallow slot machining.
- Wide application.



Ordering number	Basic dimension(mm)				Number of teeth Z	Geometry
	D	d	H	L		
GM-4E-D1.0S	1.0	4	3	50	4	Figure 1
GM-4E-D1.5S	1.5	4	4	50	4	Figure 1
GM-4E-D2.0S	2.0	4	6	50	4	Figure 1
GM-4E-D2.5S	2.5	4	8	50	4	Figure 1
GM-4E-D3.0S	3.0	4	8	50	4	Figure 1
GM-4E-D4.0S	4.0	4	11	50	4	Figure 2
GM-4E-D1.0	1.0	6	3	50	4	Figure 1
GM-4E-D1.5	1.5	6	4	50	4	Figure 1
GM-4E-D2.0	2.0	6	6	50	4	Figure 1
GM-4E-D2.5	2.5	6	8	50	4	Figure 1
GM-4E-D3.0	3.0	6	8	50	4	Figure 1
GM-4E-D3.5	3.5	6	10	50	4	Figure 1
GM-4E-D4.0	4.0	6	11	50	4	Figure 1
GM-4E-D4.5	4.5	6	11	50	4	Figure 1
GM-4E-D5.0	5.0	6	13	50	4	Figure 1
GM-4E-D5.5	5.5	6	16	50	4	Figure 1
GM-4E-D6.0	6.0	6	16	50	4	Figure 2
GM-4E-D7.0	7.0	8	20	60	4	Figure 1
GM-4E-D8.0	8.0	8	20	60	4	Figure 2
GM-4E-D9.0	9.0	10	22	75	4	Figure 1
GM-4E-D10.0	10.0	10	25	75	4	Figure 2
GM-4E-D11.0	11.0	12	26	75	4	Figure 1
GM-4E-D12.0	12.0	12	30	75	4	Figure 2
GM-4E-D14.0	14.0	14	32	75	4	Figure 2
GM-4E-D16.0	16.0	16	45	100	4	Figure 2
GM-4E-D18.0	18.0	18	45	100	4	Figure 2
GM-4E-D20.0	20.0	20	45	100	4	Figure 2

Applicable material table

⊙Very suitable ○Suitable

		Workpiece material									
Carbon steel	Alloy steel	Pre-hardened steel, Hardened steel				Stainless steel	Cast iron, Nodular cast iron	Copper alloy	Aluminum alloy	Titanium alloy	Heat resistant alloy
		~40HRC	~50HRC	~60HRC	~68HRC						
⊙	⊙	⊙	⊙			○	⊙			○	○



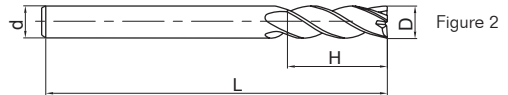
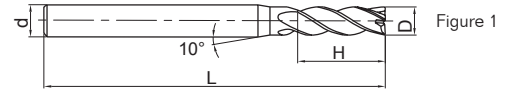
B

Indexable milling tools

Solid carbide end mills

GM series

4-flute flattened end mills with straight shank and long cutting edge



- GM-4E series with long cutting edge.



Ordering number	Basic dimension(mm)				Number of teeth Z	Geometry
	D	d	H	L		
GM-4EL-D3.0	3.0	6	12	75	4	Figure 1
GM-4EL-D4.0	4.0	6	15	75	4	Figure 1
GM-4EL-D5.0	5.0	6	20	75	4	Figure 1
GM-4EL-D6.0	6.0	6	20	75	4	Figure 2
GM-4EL-D8.0	8.0	8	25	100	4	Figure 2
GM-4EL-D10.0	10.0	10	30	100	4	Figure 2
GM-4EL-D12.0	12.0	12	35	100	4	Figure 2
GM-4EL-D14.0	14.0	14	40	100	4	Figure 2
GM-4EL-D16.0	16.0	16	50	150	4	Figure 2
GM-4EL-D20.0	20.0	20	55	150	4	Figure 2

Applicable material table

⊙Very suitable ○Suitable

Workpiece material											
Carbon steel	Alloy steel	Pre-hardened steel, Hardened steel				Stainless steel	Cast iron, Nodular cast iron	Copper alloy	Aluminum alloy	Titanium alloy	Heat resistant alloy
		~40HRC	~50HRC	~60HRC	~68HRC						
⊙	⊙	⊙	⊙			○	⊙			○	○

