

**NEW
PRODUCT!**

M200、 M205 ACHTECK Universal Solid Carbide End Mills-ECO Line

High performance-price ratio ideal choice, suitable for machining ISO P, M and K materials

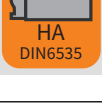
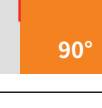
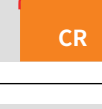
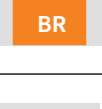
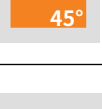


Solid carbide end mills-ECO Line

Series	Pictures	Catagory	Tooth	Helix angles	Application	Cutting edge tolerance mm	Diameter mm	Material	Information
M200-2ES		Eco	2	35°		h9	1-20	Universal type	Used in carbon steel, tool steel, alloy steel machining. The workpiece hardness is up to HRC 45°.
M200-4ES		Eco	4	35°/38°		h9	1-20	Universal type	Used in carbon steel, tool steel, alloyed steel machining. 4 cutting edges can achieve better surface finishing. Differential helix and tooth distance eliminate vibration. The workpiece hardness is up to HRC 45°.
M200-4CS		Eco	4	35°/38°		h9	4-20	Universal type	Used in carbon steel, tool steel and alloyed steel machining. The chamfers on the corner radius can prevent edge breakage during high-speed machining. Differential helix and tooth distance eliminate vibration. The workpiece hardness is up to HRC 45°.
M200-4EL		Eco	4	35°/38°		h9	3-20	Universal type	Used in carbon steel, tool steel and alloyed steel machining. Differential helix and tooth distance eliminate vibration. With 4 long cutting edge design. The workpiece hardness is up to HRC 45°.
M200-2BS		Eco	2	30°		h7	1-20	Universal type	Used in carbon steel, tool steel and alloyed steel for milling slot and special profile on the round bottom with better breakage resistance. The workpiece hardness is up to HRC 45°.
M200-4RS		Eco	4	35°/38°		h9	1-20	Universal type	Used in carbon steel, tool steel and alloyed steel. The round corner can prevent edge breakage during high speed machining. Differential helix and tooth distance eliminate vibration. With 4 cutting edge design. The workpiece hardnes is up to HRC 45°.
M200-4RL		Eco	4	35°/38°		h9	4-16	Universal type	Used in carbon steel, tool steel and alloyed steel. The round corner can prevent edge breakage during high speed machining. Differential helix and tooth distance eliminate vibration. With 4 long cutting edge design. The workpiece hardness is HRC 45°.
M205-6ES		Eco	6	45°		h9	6-20	Universal type	With close pitch design, it is the first choice of high speed machining, and finishing and side milling at high feed rate. The workpiece hardness is up to HRC 45°.

Icon description

Icons	Description
	Slot milling and square shoulder milling
	Square shoulder Rough milling
	Square shoulder Finish milling
	High feed milling
	Dynamic milling Cycloid milling
	Profile milling
	Chamfering and deburring
	AlTiN coating
	Uncoated
	AlCrN coating

Icons	Description
	30° Helix angle
	35° Helix angle
	35°/38° Helix angle
	45° Helix angle
	Cylindrical shank
	Square
	Round corner
	Ball-nose
	Corner chamfer
	Chamfer
	Waved edge

- ACHTECK ECO line of solid carbide end mills offers extremely high performance , economical with complete product range

Tool

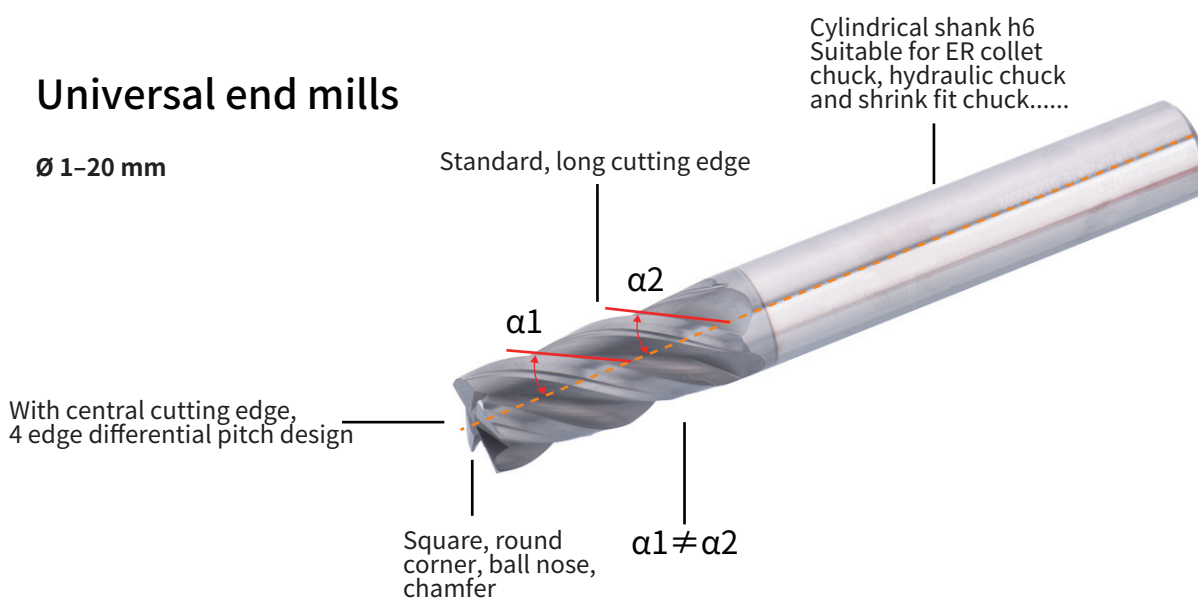
- Solid carbide end mills-ECO series
- Metric
- 4 categories with 154 dimensions
- Square, ball nose, round corner, chamfer, close pitch
- With 2, 4 or 6 cutting edges
- $\phi 1\text{mm}-20\text{mm}$
- Brand new substrate and AlCrN coating, enhanced wear-resistance, and prolonged tool life

Application

- ISO workpiece material group: P, M, K
- Side milling, slot milling, pocket milling, helical interpolated milling, ramping and profile milling
- Application range: general machining, die and mold, aircraft and energy industry

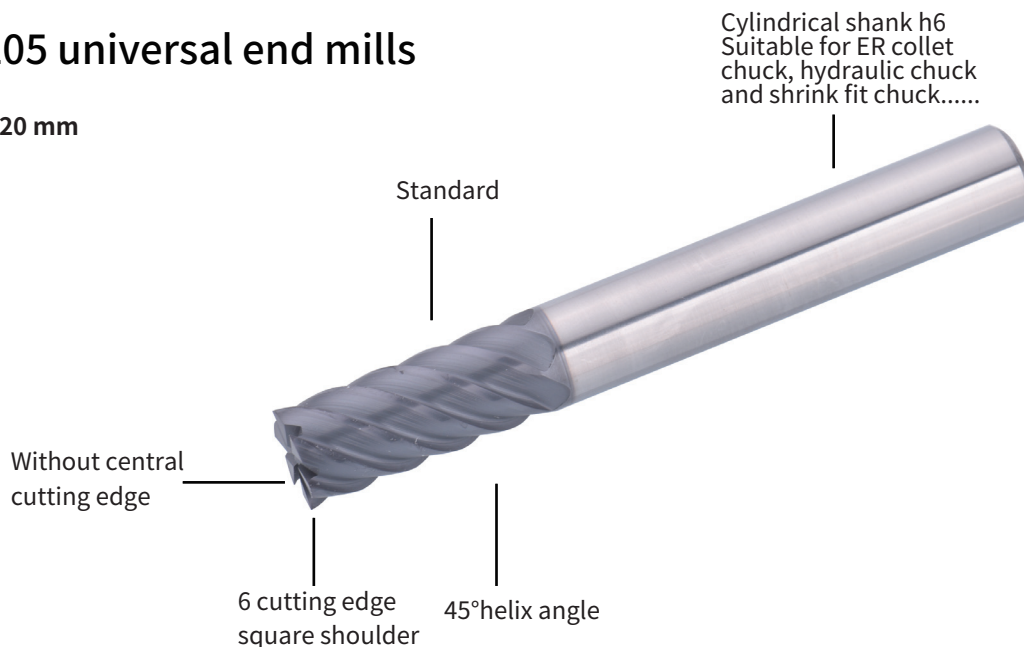
Universal end mills

$\phi 1-20\text{ mm}$



M205 universal end mills

$\phi 6-20\text{ mm}$





• **ACHTECK Solid Carbide End Mill Denomination**

M	1	00	—	2	E	S	—	060	002	N
1	2	3		4	5	6		7	8	9
1	2	3					4	5		
Tool category	Generation	Series					Number of teeth	Tool type		
M End mill	1	00-09 Universal end mills HRC45°					2,3,4,5,6.....	E Square		
		10-19 Universal end mills HRC55°						B Ball nose		
		20-29 High performance end mills						R Round corner		
		30-39 Dedicated for steel						C Chamfer		
		40-49 Dedicated for aluminium alloy						P With waved edges		
		50-59 Dedicated for stainless steel						W Forming end mills		
		60-69 Dedicated for S group material						T Taper end mills		
		70-79 Dedicated for hardened material						H High feed milling		
		80-99 Others								
6			7		8		9			
Length			Tool diameter		Chamfer/round corner radius		Structure type			
S	Standard total length		060=6.0mm		002=0.2mm		N Straight necking			
L	Long version		200=20.0mm				C Conical necking			
XL	Super long version						P Special shank			
XXL	Extra long version						Default: No necking			
SN	Short cutting edge									
SP	Long cutting edge									

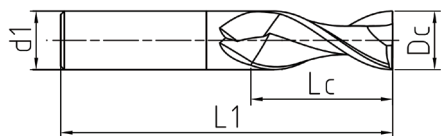
Solid Carbide end Mill M200

Eco line

Square end mill with 2 cutting edges

Solid carbide end mill

Workpiece hardness < HRC45°



P	M	K	N	S	H	O
● ●	●	● ●				

Product code	Dc mm h9	d1 mm	Lc mm	L1 mm	Z	Stock
M200-2ES-010	1	4	3	50	2	●
M200-2ES-015	1.5	4	4	50	2	●
M200-2ES-020	2	4	6	50	2	●
M200-2ES-025	2.5	4	8	50	2	●
M200-2ES-030	3	4	8	50	2	●
M200-2ES-040	4	4	12	50	2	●
M200-2ES-050	5	6	13	50	2	●
M200-2ES-060	6	6	16	50	2	●
M200-2ES-070	7	8	20	60	2	●
M200-2ES-080	8	8	20	60	2	●
M200-2ES-100	10	10	25	75	2	●
M200-2ES-120	12	12	30	75	2	●
M200-2ES-140	14	14	34	100	2	●
M200-2ES-160	16	16	36	100	2	●
M200-2ES-180	18	18	40	100	2	●
M200-2ES-200	20	20	45	100	2	●

Marked: ● Stocked ○ Limited-stock
Special product is accepted

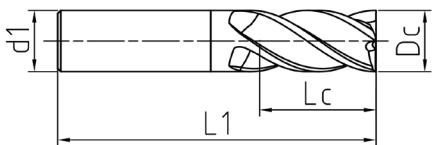
Solid Carbide end Mill M200

ECO line

End mill with 4 cutting edges

Solid carbide end mill

Workpiece hardness < HRC45°



P	M	K	N	S	H	O
●●	●	●●				

Product code	Dc mm h9	d1 mm	LC mm	L1 mm	Z mm	Stock
M200-4ES-010	1	4	3	50	4	●
M200-4ES-015	1.5	4	4	50	4	●
M200-4ES-020	2	4	6	50	4	●
M200-4ES-025	2.5	4	8	50	4	●
M200-4ES-030	3	4	8	50	4	●
M200-4ES-030P	3	6	8	50	4	●
M200-4ES-040	4	4	12	50	4	●
M200-4ES-040P	4	6	12	50	4	●
M200-4ES-050	5	6	13	50	4	●
M200-4ES-060	6	6	16	50	4	●
M200-4ES-070	7	8	20	60	4	●
M200-4ES-080	8	8	20	60	4	●
M200-4ES-090	9	10	23	75	4	●
M200-4ES-100	10	10	25	75	4	●
M200-4ES-110	11	12	28	75	4	●
M200-4ES-120	12	12	30	75	4	●
M200-4ES-140	14	14	34	100	4	●
M200-4ES-160	16	16	36	100	4	●
M200-4ES-180	18	18	40	100	4	●
M200-4ES-200	20	20	45	100	4	●

Long cutting edge

Product code	Dc mm h9	d1 mm	Lc mm	L1 mm	Z	Stock
M200-4EL-030	3	4	15	60	4	●
M200-4EL-040	4	4	20	60	4	●
M200-4EL-050	5	6	25	75	4	●
M200-4EL-060	6	6	25	75	4	●
M200-4EL-080	8	8	30	75	4	●
M200-4EL-100	10	10	40	100	4	●
M200-4EL-120	12	12	45	100	4	●
M200-4EL-140	14	14	60	150	4	●
M200-4EL-160	16	16	70	150	4	●
M200-4EL-180	18	18	70	150	4	●
M200-4EL-200	20	20	70	150	4	●

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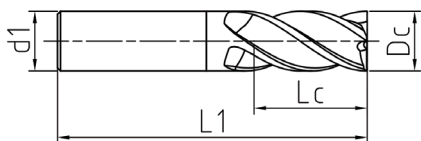
● Solid Carbide end Mill M200

Eco line

End mill with 4 cutting edges and chamfer

Solid carbide end mill

Workpiece hardness < HRC45°



P	M	K	N	S	H	O
●	●	●				

Product code	Dc mm h9	d1 mm	Chamfer mm	Lc mm	L1 mm	Z	Stock
M200-4CS-040	4	4	0.1	12	50	4	●
M200-4CS-050	5	6	0.1	13	50	4	●
M200-4CS-060	6	6	0.1	16	50	4	●
M200-4CS-080	8	8	0.1	20	60	4	●
M200-4CS-100	10	10	0.1	25	75	4	●
M200-4CS-120	12	12	0.1	30	75	4	●
M200-4CS-140	14	14	0.15	34	100	4	●
M200-4CS-160	16	16	0.15	36	100	4	●
M200-4CS-180	18	18	0.15	40	100	4	●
M200-4CS-200	20	20	0.15	45	100	4	●

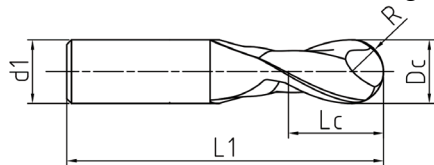
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Special product is accepted



Solid Carbide end Mill M200

ECO line

Ball nose end mill with 2 cutting edges



Solid carbide end mill

Workpiece hardness < HRC45°

P	M	K	N	S	H	O
●	●	●				

Product code	Dc mm h7	d1 mm	R mm ±0.02	Lc mm	L1 mm	Z	Stock
M200-2BS-010	1	4	0.5	2	50	2	●
M200-2BS-015	1.5	4	0.75	3	50	2	●
M200-2BS-020	2	4	1	4	50	2	●
M200-2BS-025	2.5	4	1.25	5	50	2	●
M200-2BS-030	3	4	1.5	6	50	2	●
M200-2BS-040	4	4	2	8	50	2	●
M200-2BS-050	5	6	2.5	10	50	2	●
M200-2BS-060	6	6	3	12	50	2	●
M200-2BS-070	7	8	3.5	14	60	2	●
M200-2BS-080	8	8	4	14	60	2	●
M200-2BS-100	10	10	5	18	75	2	●
M200-2BS-120	12	12	6	22	75	2	●
M200-2BS-140	14	14	7	28	100	2	●
M200-2BS-160	16	16	8	32	100	2	●
M200-2BS-180	18	18	9	36	100	2	●
M200-2BS-200	20	20	10	40	100	2	●

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Special product is accepted

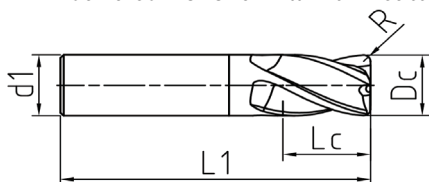
Solid Carbide end Mill M200

ECO line

Round corner end mill with 4 cutting edges

Solid carbide end mill

Workpiece hardness < HRC45°



P	M	K	N	S	H	O
●	●	●				

Product code	Dc mm h9	d1 mm	Rmm ±0.02	LC mm	L1 mm	Z	Stock
M200-4RS-010002	1	4	0.2	3	50	4	●
M200-4RS-015002	1.5	4	0.2	4	50	4	●
M200-4RS-020002	2	4	0.2	6	50	4	●
M200-4RS-030003	3	4	0.3	8	50	4	●
M200-4RS-030005	3	4	0.5	8	50	4	●
M200-4RS-040002	4	4	0.2	12	50	4	●
M200-4RS-040005	4	4	0.5	12	50	4	●
M200-4RS-040010	4	4	1	12	50	4	●
M200-4RS-050002	5	6	0.2	13	50	4	●
M200-4RS-050005	5	6	0.5	13	50	4	●
M200-4RS-050010	5	6	1	13	50	4	●
M200-4RS-060002	6	6	0.2	16	50	4	●
M200-4RS-060005	6	6	0.5	16	50	4	●
M200-4RS-060010	6	6	1	16	50	4	●
M200-4RS-060015	6	6	1.5	16	50	4	●
M200-4RS-080002	8	8	0.2	20	60	4	●
M200-4RS-080005	8	8	0.5	20	60	4	●
M200-4RS-080010	8	8	1	20	60	4	●
M200-4RS-080015	8	8	1.5	20	60	4	●
M200-4RS-080020	8	8	2	20	60	4	●
M200-4RS-100002	10	10	0.2	25	75	4	●
M200-4RS-100005	10	10	0.5	25	75	4	●
M200-4RS-100010	10	10	1	25	75	4	●
M200-4RS-100015	10	10	1.5	25	75	4	●
M200-4RS-100020	10	10	2	25	75	4	●
M200-4RS-100025	10	10	2.5	25	75	4	●
M200-4RS-100030	10	10	3	25	75	4	●
M200-4RS-120005	12	12	0.5	30	75	4	●
M200-4RS-120010	12	12	1	30	75	4	●
M200-4RS-120015	12	12	1.5	30	75	4	●
M200-4RS-120020	12	12	2	30	75	4	●
M200-4RS-120025	12	12	2.5	30	75	4	●
M200-4RS-120030	12	12	3	30	75	4	●
M200-4RS-140010	14	14	1	34	100	4	●
M200-4RS-140020	14	14	2	34	100	4	●
M200-4RS-160005	16	16	0.5	36	100	4	●
M200-4RS-160010	16	16	1	36	100	4	●
M200-4RS-160020	16	16	2	36	100	4	●
M200-4RS-160030	16	16	3	36	100	4	●
M200-4RS-160040	16	16	4	36	100	4	●

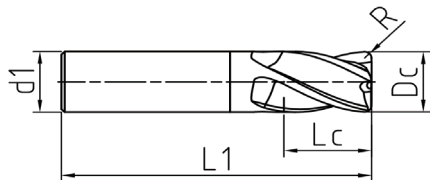
 Marked: ● Stocked ○ Limited-stock
 Special product is accepted



● Solid Carbide end Mill M200

Eco line

Round corner end mill with 4 cutting edges



Solid carbide end mill

Workpiece hardness < HRC45°



P	M	K	N	S	H	O
●	●	●				

Product code	Dc mm h9	d1 mm	Rmm ±0.02	LC mm	L1 mm	Z	Stock
M200-4RS-180020	18	18	2	40	100	4	●
M200-4RS-180040	18	18	4	40	100	4	●
M200-4RS-200010	20	20	1	45	100	4	●
M200-4RS-200020	20	20	2	45	100	4	●
M200-4RS-200030	20	20	3	45	100	4	●
M200-4RS-200040	20	20	4	45	100	4	●
M200-4RS-200050	20	20	5	45	100	4	●

Long cutting edge

Product code	Dc mm h9	d1 mm	Rmm ±0.02	LC mm	L1 mm	Z	Stock
M200-4RL-040002	4	4	0.2	12	75	4	●
M200-4RL-040005	4	4	0.5	12	75	4	●
M200-4RL-040010	4	4	1	12	75	4	●
M200-4RL-060002	6	6	0.2	16	75	4	●
M200-4RL-060005	6	6	0.5	16	75	4	●
M200-4RL-060010	6	6	1	16	75	4	●
M200-4RL-080005	8	8	0.5	20	100	4	●
M200-4RL-080010	8	8	1	20	100	4	●
M200-4RL-080015	8	8	1.5	20	100	4	●
M200-4RL-080020	8	8	2	20	100	4	●
M200-4RL-100005	10	10	0.5	25	100	4	●
M200-4RL-100010	10	10	1	25	100	4	●
M200-4RL-100015	10	10	1.5	25	100	4	●
M200-4RL-100020	10	10	2	25	100	4	●
M200-4RL-120005	12	12	0.5	30	100	4	●
M200-4RL-120010	12	12	1	30	100	4	●
M200-4RL-120015	12	12	1.5	30	100	4	●
M200-4RL-120020	12	12	2	30	100	4	●
M200-4RL-120025	12	12	2.5	30	100	4	●
M200-4RL-120030	12	12	3	30	100	4	●
M200-4RL-140020	14	14	2	34	150	4	●
M200-4RL-160005	16	16	0.5	36	150	4	●
M200-4RL-160010	16	16	1	36	150	4	●
M200-4RL-160020	16	16	2	36	150	4	●
M200-4RL-160030	16	16	3	36	150	4	●
M200-4RL-160040	16	16	4	36	150	4	●

Marked: ● Stocked ○ Limited-stock
Special product is accepted

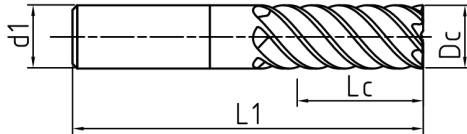
Solid Carbide end Mill M205

ECO line

Square end mill with 6 cutting edges

Solid carbide end mill

Workpiece hardness < HRC45°



P	M	K	N	S	H	O
● ●	●	● ●				

Product code	Dc mm h9	d1 mm	Lc mm	L1 mm	Z	Stock
M205-6ES-060	6	6	16	50	6	●
M205-6ES-080	8	8	20	60	6	●
M205-6ES-100	10	10	25	75	6	●
M205-6ES-120	12	12	30	75	6	●
M205-6ES-140	14	14	34	100	6	●
M205-6ES-160	16	16	36	100	6	●
M205-6ES-180	18	18	40	100	6	●
M205-6ES-200	20	20	45	100	6	●

Marked: ● Stocked ○ Limited-stock
Special product is accepted



The specified cutting data are average recommended values. For special applications, an adjustment is recommended.

Machining Materials					
ISO	Material classification			Brinell hardness (HB)	Tensile strength Rm(N/ mm ²)
P	Non-alloyed steel	C≤0.25%	Annealed	125	428
		0.25<C≤0.55%	Annealed	190	639
		0.25<C≤0.55%	Heat-treated	210	708
		C>0.55%	Annealed	190	639
		C>0.55%	Heat-treated	300	1013
		Free cutting steel (short-chipping)	Annealed	220	745
	Low-alloyed steel	Annealed		175	591
		Heat-treated		300	1013
		Heat-treated		380	1282
		Heat-treated		430	1477
	High-alloyed steel and high-alloyed tool steel	Annealed		200	675
		Hardened and tempered		300	1013
		Hardened and tempered		400	1361
	Stainless steel	Ferritic/martensitic, annealed		200	675
		Martensitic, heat-treated		330	1114
M	Stainless steel	Austenitic, quench hardened		200	675
		Austenitic, precipitation hardened (PH)		300	1013
		Austenitic/ferritic, duplex		230	778
K	Malleable cast iron	Ferritic		200	400
		Pearlitic		260	700
	Grey cast iron	Low tensile strength		180	200
		High tensile strength/austenitic		245	350
	Cast iron with spheroidal graphite	Ferritic		155	400
		Pearlitic		265	700
N	Wrought aluminium alloys	non-aging		30	-
		aged		100	340
	Cast aluminium alloys	≤ 12% Si, non-aging		75	260
		≤ 12% Si, aged		90	310
		> 12% Si, non-aging		130	450
	Magnesium-based alloys			70	250
		Unalloyed, electrolytic copper		100	340
		Brass, bronze, red brass		90	310
		Cu alloys, short-chipping		110	380
		High tensile, Ampco		300	1010
S	Heat-resistant alloys	Fe-based	Annealed	200	680
			Hardened	280	940
		Ni or Co based	Annealed	250	840
			Hardened	350	1180
			Cast	320	1080
	Titanium alloys	Pure titanium		200	680
		α and β alloys, hardened		375	1260
		β alloys		410	1400
	Tungsten alloys			300	1010
	Molybdenum alloys			300	1010
H	Hardened steel	Hardened and tempered		50HRC	
		Hardened and tempered		55HRC	
		Hardened and tempered		60HRC	
	Chilled cast iron	Hardened and tempered		50HRC	



May 2023

13/19



Solid carbide end mill Eco Line cutting parameters

The specified cutting data are average recommended values. For special applications, an adjustment is recommended.

Machining Materials					
ISO	Material classification			Brinell hardness (HB)	Tensile strength Rm(N/ mm ²)
P	Non-alloyed steel	C≤0.25%	Annealed	125	428
		0.25<C≤0.55%	Annealed	190	639
		0.25<C≤0.55%	Heat-treated	210	708
		C>0.55%	Annealed	190	639
		C>0.55%	Heat-treated	300	1013
		Free cutting steel (short-chipping)	Annealed	220	745
	Low-alloyed steel	Annealed		175	591
		Heat-treated		300	1013
		Heat-treated		380	1282
		Heat-treated		430	1477
	High-alloyed steel and high-alloyed tool steel	Annealed		200	675
		Hardened and tempered		300	1013
		Hardened and tempered		400	1361
	Stainless steel	Ferritic/martensitic, annealed		200	675
		Martensitic, heat-treated		330	1114
M	Stainless steel	Austenitic, quench hardened		200	675
		Austenitic, precipitation hardened (PH)		300	1013
		Austenitic/ferritic, duplex		230	778
K	Malleable cast iron	Ferritic		200	400
		Pearlitic		260	700
	Grey cast iron	Low tensile strength		180	200
		High tensile strength/austenitic		245	350
	Cast iron with spheroidal graphite	Ferritic		155	400
		Pearlitic		265	700
N	Wrought aluminium alloys	non-aging		30	-
		aged		100	340
	Cast aluminium alloys	≤ 12% Si, non-aging		75	260
		≤ 12% Si, aged		90	310
		> 12% Si, non-aging		130	450
	Magnesium-based alloys			70	250
		Unalloyed, electrolytic copper		100	340
		Brass, bronze, red brass		90	310
		Cu alloys, short-chipping		110	380
		High tensile, Ampco		300	1010
S	Heat-resistant alloys	Fe-based	Annealed	200	680
			Hardened	280	940
		Ni or Co based	Annealed	250	840
			Hardened	350	1180
			Cast	320	1080
	Titanium alloys	Pure titanium		200	680
		α and β alloys, hardened		375	1260
		β alloys		410	1400
	Tungsten alloys			300	1010
	Molybdenum alloys			300	1010
H	Hardened steel	Hardened and tempered		50HRC	
		Hardened and tempered		55HRC	
		Hardened and tempered		60HRC	
	Chilled cast iron	Hardened and tempered		50HRC	



May 2023

ANPI NO.075



Solid carbide end mill Eco Line cutting parameters

The specified cutting data are average recommended values. For special applications, an adjustment is recommended.

Machining Materials					
ISO	Material classification			Brinell hardness (HB)	Tensile strength Rm(N/ mm ²)
	Non-alloyed steel	C ≤ 0.25%	Annealed	125	428
		0.25 < C ≤ 0.55%	Annealed	190	639
		0.25 < C ≤ 0.55%	Heat-treated	210	708
		C > 0.55%	Annealed	190	639
		C > 0.55%	Heat-treated	300	1013
		Free cutting steel (short-chipping)	Annealed	220	745
	Low-alloyed steel	Annealed		175	591
		Heat-treated		300	1013
		Heat-treated		380	1282
		Heat-treated		430	1477
	High-alloyed steel and high-alloyed tool steel	Annealed		200	675
		Hardened and tempered		300	1013
		Hardened and tempered		400	1361
	Stainless steel	Ferritic/martensitic, annealed		200	675
		Martensitic, heat-treated		330	1114
	Stainless steel	Austenitic, quench hardened		200	675
		Austenitic, precipitation hardened (PH)		300	1013
		Austenitic/ferritic, duplex		230	778
	Malleable cast iron	Ferritic		200	400
		Pearlitic		260	700
	Grey cast iron	Low tensile strength		180	200
		High tensile strength/austenitic		245	350
	Cast iron with spheroidal graphite	Ferritic		155	400
		Pearlitic		265	700
	GGV (CGI)			230	400
	Wrought aluminium alloys	non-aging		30	-
		aged		100	340
	Cast aluminium alloys	≤ 12% Si, non-aging		75	260
		≤ 12% Si, aged		90	310
		> 12% Si, non-aging		130	450
	Magnesium-based alloys			70	250
		Unalloyed, electrolytic copper		100	340
		Brass, bronze, red brass		90	310
	Heat-resistant alloys	Fe-based	Annealed	200	680
			Hardened	280	940
		Ni or Co based	Annealed	250	840
			Hardened	350	1180
			Cast	320	1080
	Titanium alloys	Pure titanium		200	680
		α and β alloys, hardened		375	1260
		β alloys		410	1400
	Tungsten alloys			300	1010
	Molybdenum alloys			300	1010
	Hardened steel	Hardened and tempered		50HRC	
		Hardened and tempered		55HRC	
		Hardened and tempered		60HRC	
	Chilled cast iron	Hardened and tempered		50HRC	



May 2023

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Solid carbide end mill Eco Line cutting parameters

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Machining Materials					
ISO	Material classification			Brinell hardness (HB)	Tensile strength Rm(N/ mm ²)
P	Non-alloyed steel	C≤0.25%	Annealed	125	428
		0.25<C≤0.55%	Annealed	190	639
		0.25<C≤0.55%	Heat-treated	210	708
		C>0.55%	Annealed	190	639
		C>0.55%	Heat-treated	300	1013
		Free cutting steel (short-chipping)	Annealed	220	745
	Low-alloyed steel	Annealed		175	591
		Heat-treated		300	1013
		Heat-treated		380	1282
		Heat-treated		430	1477
	High-alloyed steel and high-alloyed tool steel	Annealed		200	675
		Hardened and tempered		300	1013
		Hardened and tempered		400	1361
	Stainless steel	Ferritic/martensitic, annealed		200	675
		Martensitic, heat-treated		330	1114
M	Stainless steel	Austenitic, quench hardened		200	675
		Austenitic, precipitation hardened (PH)		300	1013
		Austenitic/ferritic, duplex		230	778
K	Malleable cast iron	Ferritic		200	400
		Pearlitic		260	700
	Grey cast iron	Low tensile strength		180	200
		High tensile strength/austenitic		245	350
	Cast iron with spheroidal graphite	Ferritic		155	400
		Pearlitic		265	700
N	GGV(CGI)			230	400
	Wrought aluminium alloys	non-aging		30	-
		aged		100	340
	Cast aluminium alloys	≤ 12% Si, non-aging		75	260
		≤ 12% Si, aged		90	310
		> 12% Si, non-aging		130	450
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	Titanium alloys	Pure titanium		200	680
		α and β alloys, hardened		375	1260
		β alloys		410	1400
	Tungsten alloys			300	1010
	Molybdenum alloys			300	1010
H	Hardened steel	Hardened and tempered		50HRC	
		Hardened and tempered		55HRC	
		Hardened and tempered		60HRC	
	Chilled cast iron	Hardened and tempered		50HRC	



May 2023

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