

ス
ク
エ
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Square

全刃長
Full Cutting Length

ノンコーティング
Non-Coating

サイズ
Size

φ 0.5 ～ φ 12

MG

≤40
HRC

リード45 エンドミル
LEAD45 End Mill

全 116 サイズ
Total 116 sizes

リード45 エンドミル
LEAD45 End Mill

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Square

全刃長
Full Cutting Length

ノンコーティング
Non-Coating

刃長は外径の5倍。2枚刃 4 5° ねじれエンドミル
深い側面切削も高い切削性で加工可能

L/D=5.2-flute helix angle 45° end mill
Side deep part machining can be possible with high machinability

▲ 生産終了品 Discontinued Products

コードNo. Code No.	(D)外径 Dia.	(ℓ)刃長 Length of Cut	(γ)首角 Neck Taper Angle	(d)シャンク径 Shank Dia.	(L)全長 Overall Length	標準価格 Retail Price
01-00045-00050	0.5	2.5	9°	4	40	14,600
01-00045-00060	0.6	3	9°	4	40	14,600
01-00045-00070	0.7	3.5	9°	4	40	13,200
01-00045-00080	0.8	4	9°	4	40	13,200
01-00045-00090	0.9	4.5	9°	4	40	13,200
01-00045-00100	1	5	9°	4	45	9,200
01-00045-00110	1.1	5.5	9°	4	50	12,700
01-00045-00120	1.2	6	9°	4	50	12,700
01-00045-00130	1.3	6.5	9°	4	50	12,700
01-00045-00140	1.4	7	9°	4	50	12,700
01-00045-00150	1.5	7.5	9°	4	50	10,000
01-00045-00160	1.6	8	9°	4	50	13,400
01-00045-00170	1.7	8.5	9°	4	50	13,400
01-00045-00180	1.8	9	9°	4	50	13,400
01-00045-00190	1.9	9.5	9°	4	50	13,400
01-00045-00200	2	10	9°	4	50	10,500
01-00045-00210	2.1	10.5	9°	4	50	14,100
01-00045-00220	2.2	11	9°	4	50	14,100
01-00045-00230	2.3	11.5	9°	4	50	14,100
01-00045-00240	2.4	12	9°	4	50	14,100
01-00045-00250	2.5	12.5	9°	4	50	11,600
01-00045-00260	2.6	13	9°	6	55	16,000
01-00045-00270	2.7	13.5	9°	6	55	16,000
01-00045-00280	2.8	14	9°	6	55	16,000
01-00045-00290	2.9	14.5	9°	6	55	16,000
01-00045-00300	3	15	9°	6	55	12,300
01-00045-00310	3.1	15.5	9°	6	60	16,800
01-00045-00320	3.2	16	9°	6	60	16,800
01-00045-00330	3.3	16.5	9°	6	60	16,800

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コードNo. Code No.	(D)外径 Dia.	(ℓ)刃長 Length of Cut	(γ)首角 Neck Taper Angle	(d)シャンク径 Shank Dia.	(L)全長 Overall Length	標準価格 Retail Price
01-00045-00340	3.4	17	9°	6	60	16,800
01-00045-00350	3.5	17.5	9°	6	60	16,800
01-00045-00360	3.6	18	9°	6	60	16,800
01-00045-00370	3.7	18.5	9°	6	60	16,800
01-00045-00380	3.8	19	9°	6	60	16,800
01-00045-00390	3.9	19.5	9°	6	60	16,800
01-00045-00400	4	20	9°	6	60	13,500
01-00045-00410	4.1	20.5	9°	6	65	17,600
01-00045-00420	4.2	21	9°	6	65	17,600
01-00045-00430	4.3	21.5	9°	6	65	17,600
01-00045-00440	4.4	22	9°	6	65	17,600
01-00045-00450	4.5	22.5	9°	6	65	17,600
01-00045-00460	4.6	23	9°	6	65	17,600
01-00045-00470	4.7	23.5	9°	6	65	17,600
01-00045-00480	4.8	24	9°	6	65	17,600
01-00045-00490	4.9	24.5	9°	6	65	17,600
01-00045-00500	5	25	9°	6	65	14,300
01-00045-00510	5.1	25.5	9°	6	75	18,600
01-00045-00520	5.2	26	9°	6	75	18,600
01-00045-00530	5.3	26.5	9°	6	75	18,600
01-00045-00540	5.4	27	9°	6	75	18,600
01-00045-00550	5.5	27.5	9°	6	75	18,600
01-00045-00560	5.6	28	9°	6	75	18,600
01-00045-00570	5.7	28.5	9°	6	75	18,600
01-00045-00580	5.8	29	9°	6	75	18,600
01-00045-00590	5.9	29.5	9°	6	75	18,600
01-00045-00600	6	30	—	6	75	14,700
▲ 01-00045-00610	6.1	30.5	9°	8	90	28,100
▲ 01-00045-00620	6.2	31	9°	8	90	28,100

炭素鋼
Carbon Steel

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Alloy Steel

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Aluminium Alloy

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樹脂
Resin

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Non-coating

▲ 生産終了品 Discontinued Products

コードNo. Code No.	(D)外径 Dia.	(ℓ)刃長 Length of Cut	(γ)首角 Neck Taper Angle	(d)シャンク径 Shank Dia.	(L)全長 Overall Length	標準価格 Retail Price
▲ 01-00045-00630	6.3	31.5	9°	8	90	28,100
▲ 01-00045-00640	6.4	32	9°	8	90	28,100
▲ 01-00045-00650	6.5	32.5	9°	8	90	28,100
▲ 01-00045-00660	6.6	33	9°	8	90	28,100
▲ 01-00045-00670	6.7	33.5	9°	8	90	28,100
▲ 01-00045-00680	6.8	34	9°	8	90	28,100
▲ 01-00045-00690	6.9	34.5	9°	8	90	28,100
▲ 01-00045-00700	7	35	9°	8	90	28,100
▲ 01-00045-00710	7.1	35.5	9°	8	90	28,100
▲ 01-00045-00720	7.2	36	9°	8	90	28,100
▲ 01-00045-00730	7.3	36.5	9°	8	90	28,100
▲ 01-00045-00740	7.4	37	9°	8	90	28,100
▲ 01-00045-00750	7.5	37.5	9°	8	90	28,100
▲ 01-00045-00760	7.6	38	9°	8	90	28,100
▲ 01-00045-00770	7.7	38.5	9°	8	90	28,100
▲ 01-00045-00780	7.8	39	9°	8	90	28,100
▲ 01-00045-00790	7.9	39.5	9°	8	90	28,100
▲ 01-00045-00800	8	40	—	8	90	20,400
▲ 01-00045-00810	8.1	40.5	9°	10	100	36,100
▲ 01-00045-00820	8.2	41	9°	10	100	36,100
▲ 01-00045-00830	8.3	41.5	9°	10	100	36,100
▲ 01-00045-00840	8.4	42	9°	10	100	36,100
▲ 01-00045-00850	8.5	42.5	9°	10	100	36,100
▲ 01-00045-00860	8.6	43	9°	10	100	36,100
▲ 01-00045-00870	8.7	43.5	9°	10	100	36,100
▲ 01-00045-00880	8.8	44	9°	10	100	36,100
▲ 01-00045-00890	8.9	44.5	9°	10	100	36,100
▲ 01-00045-00900	9	45	9°	10	100	36,100
▲ 01-00045-00910	9.1	45.5	9°	10	100	36,100

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▲ 01-00045-00920	9.2	46	9°	10	100	36,100
▲ 01-00045-00930	9.3	46.5	9°	10	100	36,100
▲ 01-00045-00940	9.4	47	9°	10	100	36,100
▲ 01-00045-00950	9.5	47.5	9°	10	100	36,100
▲ 01-00045-00960	9.6	48	9°	10	100	36,100
▲ 01-00045-00970	9.7	48.5	9°	10	100	36,100
▲ 01-00045-00980	9.8	49	9°	10	100	36,100
▲ 01-00045-00990	9.9	49.5	9°	10	100	36,100
▲ 01-00045-01000	10	50	—	10	100	26,100
▲ 01-00045-01010	10.1	50.5	9°	12	110	48,200
▲ 01-00045-01020	10.2	51	9°	12	110	48,200
▲ 01-00045-01030	10.3	51.5	9°	12	110	48,200
▲ 01-00045-01040	10.4	52	9°	12	110	48,200
▲ 01-00045-01050	10.5	52.5	9°	12	110	48,200
▲ 01-00045-01060	10.6	53	9°	12	110	48,200
▲ 01-00045-01070	10.7	53.5	9°	12	110	48,200
▲ 01-00045-01080	10.8	54	9°	12	110	48,200
▲ 01-00045-01090	10.9	54.5	9°	12	110	48,200
▲ 01-00045-01100	11	55	9°	12	110	48,200
▲ 01-00045-01110	11.1	55.5	9°	12	110	48,200
▲ 01-00045-01120	11.2	56	9°	12	110	48,200
▲ 01-00045-01130	11.3	56.5	9°	12	110	48,200
▲ 01-00045-01140	11.4	57	9°	12	110	48,200
▲ 01-00045-01150	11.5	57.5	9°	12	110	48,200
▲ 01-00045-01160	11.6	58	9°	12	110	48,200
▲ 01-00045-01170	11.7	58.5	9°	12	110	48,200
▲ 01-00045-01180	11.8	59	9°	12	110	48,200
▲ 01-00045-01190	11.9	59.5	9°	12	110	48,200
▲ 01-00045-01200	12	60	—	12	110	36,700

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Carbon Steel

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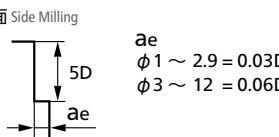
ノンコーティング
Non-coating

▲ 生産終了品 Discontinued Products

コードNo. Code No.	(D)外径 Dia.	(ℓ)刃長 Length of Cut	(γ)首角 Neck Taper Angle	(d)シャンク径 Shank Dia.	(L)全長 Overall Length	標準価格 Retail Price
▲ 01-00045-00920	9.2	46	9°	10	100	36,100
▲ 01-00045-00930	9.3	46.5	9°	10	100	36,100
▲ 01-00045-00940	9.4	47	9°	10	100	36,100
▲ 01-00045-00950	9.5	47.5	9°	10	100	36,100
▲ 01-00045-00960	9.6	48	9°	10	100	36,100
▲ 01-00045-00970	9.7	48.5	9°	10	100	36,100
▲ 01-00045-00980	9.8	49	9°	10	100	36,100
▲ 01-00045-00990	9.9	49.5	9°	10	100	36,100
▲ 01-00045-01000	10	50	—	10	100	26,100
▲ 01-00045-01010	10.1	50.5	9°	12	110	48,200
▲ 01-00045-01020	10.2	51	9°	12	110	48,200
▲ 01-00045-01030	10.3	51.5	9°	12	110	48,200
▲ 01-00045-01040	10.4	52	9°	12	110	48,200
▲ 01-00045-01050	10.5	52.5	9°	12	110	48,200
▲ 01-00045-01060	10.6	53	9°	12	110	48,200
▲ 01-00045-01070	10.7	53.5	9°	12	110	48,200
▲ 01-00045-01080	10.8	54	9°	12	110	48,200
▲ 01-00045-01090	10.9	54.5	9°	12	110	48,200
▲ 01-00045-01100	11	55	9°	12	110	48,200
▲ 01-00045-01110	11.1	55.5	9°	12	110	48,200
▲ 01-00045-01120	11.2	56	9°	12	110	48,200
▲ 01-00045-01130	11.3	56.5	9°	12	110	48,200
▲ 01-00045-01140	11.4	57	9°	12	110	48,200
▲ 01-00045-01150	11.5	57.5	9°	12	110	48,200
▲ 01-00045-01160	11.6	58	9°	12	110	48,200
▲ 01-00045-01170	11.7	58.5	9°	12	110	48,200
▲ 01-00045-01180	11.8	59	9°	12	110	48,200
▲ 01-00045-01190	11.9	59.5	9°	12	110	48,200
▲ 01-00045-01200	12	60	—	12	110	36,700

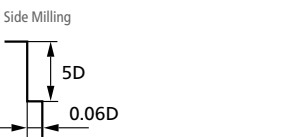
▲ 生産終了品 Discontinued Products

コードNo. Code No.	(D)外径 Dia.	(ℓ)刃長 Length of Cut	(γ)首角 Neck Taper Angle	(d)シャンク径 Shank Dia.	(L)全長 Overall Length	標準価格 Retail Price
▲ 01-00045-00920	9.2	46	9°	10	100	36,100
▲ 01-00045-00930	9.3	46.5	9°	10	100	36,100
▲ 01-00045-00940	9.4	47	9°	10	100	36,100
▲ 01-00045-00950	9.5	47.5	9°	10	100	36,100
▲ 01-00045-00960	9.6	48	9°	10	100	36,100
▲ 01-00045-00970	9.7	48.5	9°	10	100	36,100
▲ 01-00045-00980	9.8	49	9°	10	100	36,100
▲ 01-00045-00990	9.9	49.5	9°	10		

被削材 Work Material	炭素鋼 Carbon Steels S50C		合金鋼 Alloy Steels SCM・SKD・SUS		調質鋼 Prehardened Steels HPM・NAK	
切削速度 Cutting Speed	15～25m/min		10～20m/min		10～15m/min	
外 径 Dia.	回転数 Spindle Speed	送り速度 Feed	回転数 Spindle Speed	送り速度 Feed	回転数 Spindle Speed	送り速度 Feed
	min ⁻¹	mm/min	min ⁻¹	mm/min	min ⁻¹	mm/min
1	6,400	65	4,800	40	4,000	35
1.5	4,200	65	3,200	40	2,700	35
2	3,200	65	2,400	45	2,000	40
2.5	2,500	75	1,900	45	1,600	40
3	2,100	85	1,600	50	1,300	45
4	1,600	95	1,200	50	1,000	45
5	1,300	100	1,000	60	800	55
6	1,100	110	800	65	700	60
8	800	95	600	60	500	55
10	600	85	500	60	400	50
12	500	80	400	55	300	45
切込み量 Depth of Cut (D:外径 Dia.)	側面 Side Milling  ae φ1 ～ 2.9 = 0.03D φ3 ～ 12 = 0.06D					
備 考 Notes	※ 1 切削油を使用してください。 ※ 2 側面切削でのみ、使用してください。 ※ 3 回転数と送り速度は、同じ割合で調整してください。 ※ 4 切込み量、機械剛性により条件が異なることがあります。その都度調整し使用してください。 ※ 1 Use cutting fluid. ※ 2 It is available only for side milling. ※ 3 Adjust both spindle speed and feed at the same rate. ※ 4 Adjust milling conditions according to the volume of Depth of Cut and rigidity of the machine.					

- ☐ アルミ合金
Aluminium Alloy
- ☐ 銅
Copper
- ☐ 樹脂
Resin

ノンコーティング
Non-coating

被削材 Work Material	アルミニウム合金 Aluminium Alloy		銅 Copper	
切削速度 Cutting Speed	55～65m/min		15～35m/min	
外 径 Dia.	回転数 Spindle Speed	送り速度 Feed	回転数 Spindle Speed	送り速度 Feed
	min ⁻¹	mm/min	min ⁻¹	mm/min
1	19,100	230	8,000	100
1.5	12,700	250	5,300	110
2	9,500	290	4,000	120
2.5	7,600	300	3,200	130
3	6,400	320	2,700	140
4	4,800	340	2,000	140
5	3,800	340	1,600	140
6	3,200	350	1,300	140
8	2,400	310	1,000	130
10	1,900	290	800	120
12	1,600	270	700	120
切込み量 Depth of Cut (D:外径 Dia.)	側面 Side Milling  ae φ1 ～ 2.9 = 0.03D φ3 ～ 12 = 0.06D			
備 考 Notes	※ 1 切削油を使用してください。 ※ 2 側面切削でのみ、使用してください。 ※ 3 回転数と送り速度は、同じ割合で調整してください。 ※ 4 切込み量、機械剛性により条件が異なることがあります。その都度調整し使用してください。 ※ 1 Use cutting fluid. ※ 2 It is available only for side milling. ※ 3 Adjust both spindle speed and feed at the same rate. ※ 4 Adjust milling conditions according to the volume of Depth of Cut and rigidity of the machine.			

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