

ดอกรีมเมอร์

ประเภท และ ตัวเลือก

Tool Types and selections



Type			Increments (mm)	Material & Coating				Page
				HSS	H5	Red'X	Carbide	
Hand Reamers	Hand Reamer		0.1	✓	-	-	-	51
	Paris Type		0.5	✓	-	-	-	52
	Expanding Type		0.5 - 1.0	✓	-	-	-	53
	Taper Pin Spiral Flute		0.2 - 1.0	✓	-	-	-	54
	Taper Pin Straight Flute		0.2 - 1.0	✓	-	-	-	54
Machine Reamers	High Precision Reamer		0.01	-	✓	-	✓	55 - 56
	Precision Reamer		0.1	-	✓	✓	✓	57 - 59
	Through Hole Internal Lubrication		0.1 / 0.01	-	-	-	✓	60 - 61
	Blind Hole Internal Lubrication		0.1 / 0.01	-	-	-	✓	62 - 63
	Micro Precision Reamer		0.001	-	-	-	✓	64

Reamers

ประเภท และ ตัวเลือก Tool Types and selections



Type			Increments	Material & Coating				Page
				HSS	H5	Red'X	Carbide	
Machine Reamers	Shrink Fit Reamer		0.5 - 1.0	-	-	-	✓	65
	Blind Hole Reamer		0.5 - 1.0	-	-	-	✓	65
	Long Reamer		0.5 - 1.0	-	✓	-	✓	66 - 68
	Straight Flute Reamer		0.5 - 1.0	-	✓	-	-	69 - 70
	High Helix Reamer		0.5 - 1.0	-	✓	-	-	71 - 72
	Taper Sprue Reamer		2.0	-	✓	-	-	73
	Taper Machine Pin Reamer		0.5 - 1.0	✓	-	-	-	74
	Morse Taper Reamer		Morse Taper 0 - 5	✓	-	-	-	75
	Gas Taper Reamer		NTP - NTPF 1/8" - 1"	✓	-	-	-	75

วัสดุและการชุบ – Materials and Coating

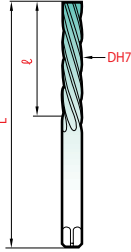
วัสดุ Material				
	HSS	HSSE (HSSE Cobalt 5%)	Carbide	Red'X Coating
ความแข็ง Hardness	63HRC	65HRC	1800HV	+3500HV

 = วัสดุหลัก | Base Material
 = วัสดุชุบ | Coating Material

ดอกรีมเมอร์

Hand Reamers – รีมเมอร์มือ

Standards	
DIN 206-B NFE 66019	
Tolerance	
D	H7



ชุดรีมเมอร์มือ Hand Reamer Set

Order Code	Pcs / Set	Set Includes 1 pc each
06670000001	8pcs	Ø2 / 3 / 4 / 5 / 6 / 8 / 10 / 12
06670000002	61pcs	Ø2.0 - 8.0 (0.1mm increment)

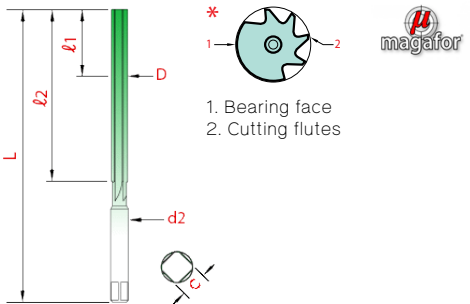
i แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ
Replace X in Order Code with size.

D (0.1mm Increment)		L	ℓ	Order Code
				HSS
mm	inch			Model 06670
1.0		34	16	06670010000
1.1 - 1.3		34	16	0667001X000
1.4 - 1.5		41	20	0667001X000
1.6 - 1.7		44	21	0667001X000
1.8 - 1.9		47	23	0667001X000
2.0		50	25	06670020000
2.1 - 2.3		52	26	0667002X000
2.4 - 2.9		58	29	0667002X000
3.0		57	31	06670030000
3.1 - 3.7		66	33	0667003X000
3.175	1/8"	66	33	06670031750
3.8 - 3.9		71	35	0667003X000
4.0		76	38	06670040000
4.1 - 4.2		76	38	0667004X000
4.3 - 4.7		81	41	0667004X000
4.762	3/16"	87	44	06670047620
4.8 - 4.9		87	44	0667004X000
5.0		87	44	06670050000
5.1 - 5.3		87	44	0667005X000
5.4 - 5.9		93	47	0667005X000
6.0		93	47	06670060000
6.1 - 6.7		100	50	0667006X000
6.350	1/4"	100	50	06670063500
6.8 - 7.5		107	54	066700XX000
7.6 - 7.9		115	58	0667007X000
7.937	5/16"	115	58	06670079370
8.0		115	58	06670080000
8.1 - 8.5		115	58	0667008X000
8.6 - 9.5		124	62	066700XX000
9.525	3/8"	133	66	06670095250
9.6 - 9.9		133	66	0667009X000
10.0		133	66	06670100000
10.1 - 10.5		133	66	0667010X000
10.6 - 11.7		142	71	066701XX000
11.8 - 11.9		152	76	0667011X000

D (0.1mm Increment)		L	ℓ	Order Code
				HSS
mm	inch			Model 06670
12.0	1/2"	152	76	06670120000
12.5		152	76	06670125000
12.7		152	76	06670127000
13.0		152	76	06670130000
13.5		163	81	06670135000
14.0		163	81	06670140000
14.5		163	81	06670145000
15.0		163	81	06670150000
15.5		175	87	06670155000
15.875		175	87	06670158750
16.0		175	87	06670160000
16.5		175	87	06670165000
17.0		175	87	06670170000
17.5		188	93	06670175000
18.0		188	93	06670180000
18.5		188	93	06670185000
19.0		188	93	06670190000
19.05		188	93	06670190500
19.5		201	100	06670195000
20.0		201	100	06670200000
21.0		215	107	06670210000
22.0		215	107	06670220000
22.225		215	107	06670222250
23.0		215	107	06670230000
24.0		231	115	06670240000
25.0	1"	231	115	06670250000
25.4		231	115	06670254000
26.0		231	115	06670260000
27.0		247	124	06670270000
28.0		247	124	06670280000
29.0		247	124	06670290000
30.0		247	124	06670300000
31.0		265	133	06670310000
32.0		265	133	06670320000

Hand Reamers (Paris Type) – รีมเมอร์มือ แบบปารีส

Standards	NFE 74112
Tolerance	
D	k7



D	L	l1	l2	d2	C	Order Code
						HSS
						Model 06675
2.0	65	14	35	2	1.6	06675020000
2.5	65	14	35	2.5	2	06675025000
3.0	85	17	50	3	2.24	06675030000
3.5	95	19	56	3.5	2.8	06675035000
4.0	100	20	60	4	3.15	06675040000
4.5	106	21	63	4.5	3.55	06675045000
5.0	112	22	67	5	4	06675050000
5.5	118	24	71	5.5	4.5	06675055000
6.0	118	24	71	6	4.5	06675060000
6.5	125	25	75	6.5	5	06675065000
7.0	132	26	80	7	5.6	06675070000
7.5	132	26	80	7.5	5.6	06675075000
8.0	140	28	85	8	6.3	06675080000
8.5	140	28	85	8.5	6.3	06675085000
9.0	150	30	90	9	7.1	06675090000
9.5	150	30	90	9.5	7.1	06675095000
10.0	160	32	95	10	8	06675100000
10.5	160	32	95	10.5	8	06675105000
11.0	170	34	100	11	9	06675110000
11.5	170	34	100	11.5	9	06675115000
12.0	180	36	106	12	10	06675120000
12.5	180	36	106	12.5	10	06675125000
13.0	180	36	106	13	10	06675130000
13.5	190	38	112	13.5	11.2	06675135000
14.0	190	38	112	14	11.2	06675140000
14.5	190	38	112	14.5	11.2	06675145000
15.0	190	38	112	15	11.2	06675150000
15.5	200	40	118	15.5	12.5	06675155000
16.0	200	40	118	16	12.5	06675160000

D	L	l1	l2	d2	C	Order Code
						HSS
						Model 06675
16.5	200	40	118	16.5	12.5	06675165000
17.0	200	40	118	17	12.5	06675170000
17.5	212	42	125	17.5	14	06675175000
18.0	212	42	125	18	14	06675180000
18.5	212	42	125	18.5	14	06675185000
19.0	212	42	125	19	14	06675190000
19.5	224	45	132	19.5	16	06675195000
20.0	224	45	132	20	16	06675200000
20.5	224	45	132	20.5	16	06675205000
21.0	224	45	132	21	16	06675210000
21.5	236	48	140	21.5	18	06675215000
22.0	236	48	140	22	18	06675220000
22.5	236	48	140	22.5	18	06675225000
23.0	236	48	140	23	18	06675230000
23.5	236	48	140	23.5	18	06675235000
24.0	250	50	150	24	20	06675240000
24.5	250	50	150	24.5	20	06675245000
25.0	250	50	150	25	20	06675250000
25.5	250	50	150	25.5	20	06675255000
26	250	50	150	26	20	06675260000
27	265	53	160	27	22.4	06675270000
28	265	53	160	28	22.4	06675280000
29	265	53	160	29	22.4	06675290000
30	265	53	160	30	22.4	06675300000
32	280	56	170	32	25	06675320000
35	300	60	180	35	28	06675350000
40	315	63	190	40	31.5	06675400000
45	335	67	200	45	35.5	06675450000

ดอกรีมเมอร์

Expanding Hand Reamers – รีมเมอร์ขยาย ใช้งานด้วยมือ

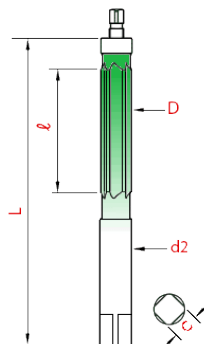
Standards

NFE 66003



D		L	ℓ	d2	C	Order Code
Min	Max					HSS
(Expansion = 0.01xD Min)						Model 06677
5	5.050	85	32	5	4	06677050000
5.5	5.555	85	32	5.5	4.5	06677055000
6	6.060	90	32	6	4.5	06677060000
6.5	6.565	100	37	6.5	5	06677065000
7	7.070	100	37	7	5.6	06677070000
7.5	7.575	110	42	7.5	5.6	06677075000
8	8.080	110	42	8	6.3	06677080000
8.5	8.585	120	47	8.5	6.3	06677085000
9	9.090	120	47	9	7.1	06677090000
9.5	9.595	130	49	9.5	7.1	06677095000
10	10.10	130	49	10	8	06677100000
11	11.11	140	54	11	9	06677110000
12	12.12	150	59	12	10	06677120000
13	13.13	160	60	13	10	06677130000
14	14.14	170	65	14	11.2	06677140000
15	15.15	180	70	15	11.2	06677150000
16	16.16	185	75	16	12.5	06677160000
17	17.17	190	75	17	12.5	06677170000
18	18.18	200	77	18	14	06677180000
19	19.19	205	77	19	14	06677190000
20	20.20	210	82	20	16	06677200000
21	21.21	215	87	21	16	06677210000
22	22.22	220	87	22	18	06677220000
23	23.23	230	89	23	18	06677230000
24	24.24	235	89	24	20	06677240000
25	25.25	240	94	25	20	06677250000
26	26.26	245	95	26	20	06677260000
27	27.27	260	100	27	22.4	06677270000
28	28.28	260	100	28	22.4	06677280000
29	29.29	270	102	29	22.4	06677290000
30	30.30	270	102	30	22.4	06677300000
31	31.31	280	107	31	25	06677310000
32	32.32	280	107	32	25	06677320000

! ขยายตัวสูงสุด 0.01 x D Min
Expansion size
0.01 x D Min



Reamers

Hand Taper Pin Reamers – เทเปอร์พินรีมเมอร์ ใช้งานด้วยมือ

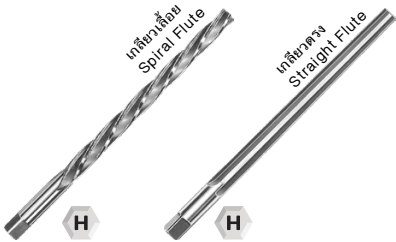
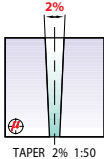


Standards

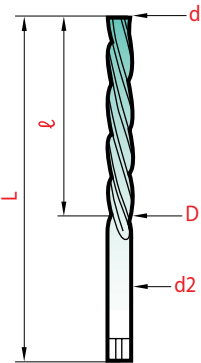
DIN 9
NFE 66011

Tolerance

D ±0.05



Nominal Size	d	D	L	ℓ	d2	Order Code	
						HSS Spiral Flute	HSS Straight Flute
						Model 06700	Model 06720
0.6	0.5	0.9	38	20	1.1	06700006000	
0.8	0.7	1.2	42	24	1.2	06700008000	
1.0	0.9	1.4	46	28	1.5	06700010000	
1.2	1.1	1.7	50	32	1.8	06700012000	
1.5	1.4	2.1	57	37	2.2	06700015000	06720015000
2.0	1.9	2.8	72	48	3.1	06700020000	06720020000
2.5	2.4	3.3	72	48	3.1	06700025000	
3.0	2.9	4.0	80	58	4.0	06700030000	06720030000
4.0	3.9	5.2	93	68	5.0	06700040000	06720040000
5.0	4.9	6.3	105	73	6.3	06700050000	06720050000
6.0	5.9	8.0	140	105	8.0	06700060000	06720060000
7.0	6.9	9.0	140	105	9.0	06700070000	
8.0	7.9	10.8	185	145	10.0	06700080000	06720080000
9.0	8.9	11.8	190	145	11.8	06700090000	
10.0	9.9	13.4	220	175	12.5	06700100000	06720100000
12.0	11.8	16.0	260	210	14.0	06700120000	06720120000
14.0	13.8	18.0	260	210	18.0	06700140000	
16.0	15.8	20.4	280	230	18.0	06700160000	06720160000
18.0	17.8	22.4	290	230	22.4	06700180000	
20.0	19.8	24.8	310	250	22.4	06700200000	
22.0	21.8	26.8	320	250	26.8	06700220000	
25.0	24.7	30.7	370	300	28.0	06700250000	
28.0	27.7	33.7	380	300	33.7	06700280000	
30.0	29.7	36.1	400	320	31.5	06700300000	
40.0	39.7	46.5	430	340	40.0	06700400000	
50.0	49.7	56.9	460	360	50.0	06700500000	



Reamers

ดอกรีมเมอร์

High Precision Machine Reamers – รีมเมอร์ความเที่ยงตรงสูง

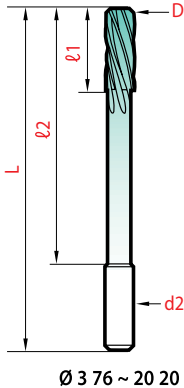
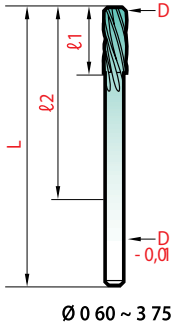
Standards

DIN 212-B
NFE 66014



D (0.01mm Increment)	L	t1	t2	d2	Order Code	
					HSSE	Carbide
					Model 06600	Model 068600
0.60 - 0.69	33	7	10	D	06600006X00	068600006X0
0.70 - 0.79	33	7	10	D	06600007X00	068600007X0
0.80 - 1.05	38	12	14	D	066000XX00	068600008X0
1.06 - 1.55	40	15	24	D	0660001XX00	06860001XX0
1.56 - 1.79	43	18	26	D	0660001XX00	06860001XX0
1.80 - 2.36	49	19	31	D	066000XXX00	0686000XXX0
2.37 - 3.75	57	20	38	D	066000XXX00	0686000XXX0
3.76 - 4.25	75	24	51	4	066000XXX00	0686000XXX0
4.26 - 4.75	80	25	55	4.5	0660004XX00	06860004XX0
4.76 - 5.30	86	26	60	5	066000XX00	0686000XX00
5.31 - 5.80	93	27	66	5.5	0660005XX00	06860005XX0
5.81 - 5.99	101	28	73	6	0660005XX00	06860005XX0
6.00 - 6.70	101	28	73	6	0660006XX00	06860006XX0
6.71 - 6.99	109	31	80	7	0660006XX00	06860006XX0
7.00 - 7.55	109	31	80	7	0660007XX00	06860007XX0
7.56 - 7.99	117	33	86	8	0660007XX00	06860007XX0
8.00 - 8.55	117	33	86	8	0660008XX00	06860008XX0
8.56 - 8.99	125	36	91	9	0660008XX00	06860008XX0
9.00 - 9.55	125	36	91	9	0660009XX00	06860009XX0
9.56 - 9.99	133	38	99	10	0660009XX00	06860009XX0

Tolerance	
D0.60 - 3.00	O +0.003
D3.01 - 6.00	O +0.004
D6.01 -	O +0.005



i แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 1.00 = 06600010000
Replace X in Order Code with size. Ex. Size 1.00 = 06600010000

High Precision Machine Reamers – รีมเมอร์ความเที่ยงตรงสูง

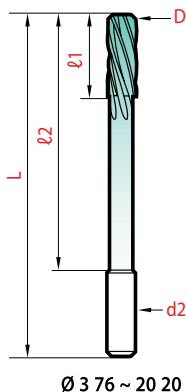
Standards

DIN 212-B
NFE 66014



D (0.01mm Increment)	L	t1	t2	d2	Order Code	
					HSSE	Carbide
					Model 06600	Model 068600
10.00 - 10.49	133	38	99	10	0660010XX00	06860010XX0
10.50 - 10.99	133	38	99	10	0660010XX00	06860010XX0
11.00 - 11.30	133	38	99	10	0660011XX00	06860011XX0
11.31 - 11.99	151	44	106	12	0660011XX00	06860011XX0
12.00 - 12.49	151	44	106	12	0660012XX00	06860012XX0
12.50 - 13.05	151	44	106	12	066001XXX00	0686001XXX0
13.06 - 13.20	151	44	106	12	066001XXX00	
13.97 - 14.05	160	47	110	14	066001XXX00	0686001XXX0
14.1	162	50	112	14	06600141000	
14.2	162	50	112	14	06600142000	
14.97 - 15.05	162	50	112	14	066001XXX00	0686001XXX0
15.1	170	52	117	16	06600151000	
15.2	170	52	117	16	06600152000	
15.97 - 16.05	170	52	117	16	066001XXX00	0686001XXX0
16.1	175	54	122	16	06600161000	
16.2	175	54	122	16	06600162000	
16.97 - 17.05	175	54	122	16	066001XXX00	
17.97 - 18.05	182	56	129	16	066001XXX00	0686001XXX0
18.1	189	58	136	16	06600181000	
18.2	189	58	136	16	06600182000	
18.97 - 19.05	189	58	136	16	066001XXX00	
19.97 - 20.05	195	60	142	16	06600XXX00	0686001XXX0
20.1	195	60	142	16	06600201000	
20.2	195	60	142	16	06600202000	

Tolerance	
D6.01 -	0 +0.005



Ø 3 76 ~ 20 20



แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 1.00 = 06600010000
Replace X in Order Code with size. Ex. Size 1.00 = 06600010000

ดอกรีมเมอร์

Precision Machine Reamers – รีมเมอร์เครื่อง

Standards

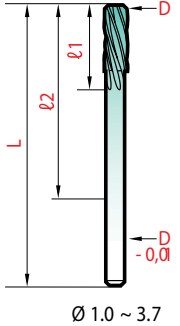
DIN 212-B
NFE 66014

Tolerance

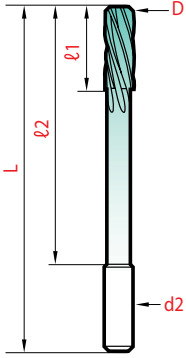
D H7



D (0.1mm Increment)		L	t1	t2	d2	Order Code		
						HSSE	HSSE+Red X	Carbide
						Model 06650	Model 066509	Model 068650
mm	inch							
1.0		38	7	22	D	06650010000	06650901000	06865001000
1.1 - 1.5		40	10	24	D	0665001X000	06650901X00	06865001X00
1.6 - 1.7		43	11	25	D	0665001X000	06650901X00	06865001X00
1.8 - 1.9		49	12	31	D	0665001X000	06650901X00	06865001X00
2.0		49	12	31	D	06650020000	06650902000	06865002000
2.1 - 2.3		49	12	31	D	0665002X000	06650902X00	06865002X00
2.4 - 2.9		57	18	38	D	0665002X000	06650902X00	06865002X00
3.0		57	18	38	D	06650030000	06650903000	06865003000
3.1 - 3.7		57	18	38	D	0665003X000	06650903X00	06865003X00
3.175	1/8"	57	18	38	D	06650031750	06650903175	06865003175
3.8 - 3.9		75	19	51	4	0665003X000	06650903X00	06865003X00
4.0		75	19	51	4	06650040000	06650904000	06865004000
4.1 - 4.2		75	19	51	4	0665004X000	06650904X00	06865004X00
4.3 - 4.7		80	21	55	4.5	0665004X000	06650904X00	06865004X00
4.762	3/16"	86	23	60	5	06650047620	06650904762	06865004762
4.8 - 4.9		86	23	60	5	0665004X000	06650904X00	06865004X00
5.0		86	23	60	5	06650050000	06650905000	06865005000
5.1 - 5.3		86	23	60	5	0665005X000	06650905X00	06865005X00
5.4 - 5.8		93	26	66	5.5	0665005X000	06650905X00	06865005X00
5.9		101	28	73	6	06650059000	06650905900	06865005900
6.0		101	28	73	6	06650060000	06650906000	06865006000
6.1 - 6.7		101	28	73	6	0665006X000	06650906X00	06865006X00
6.350	1/4"	101	28	73	6	06650063500	06650906350	06865006350
6.8 - 7.5		109	31	80	7	0665006X000	06650906X00	06865006X00
7.6 - 7.9		117	33	86	8	0665007X000	06650907X00	06865007X00
7.937	5/16"	117	33	86	8	06650079370	06650907937	06865007937
8.0		117	33	86	8	06650080000	06650908000	06865008000



Ø 1.0 ~ 3.7



Ø 3.8 ~ 20.0

ⓘ แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 3.5 = 06650035000
Replace X in Order Code with size. Ex. Size 3.5 = 06650035000

ชุดรีมเมอร์เครื่อง Machine Reamer Set



Order Code	Material	Pcs / Set	Set Includes
			1 pc each
06650000001	HSSE	8pcs	Ø2 / 3 / 4 / 5 / 6 / 8 / 10 / 12
06865000001	Carbide		
06865000001	HSSE	61pcs	Ø2.0 - 8.0 (0.1mm increment)
06865000002	Carbide		

Precision Machine Reamers – รีมเมอร์เครื่อง

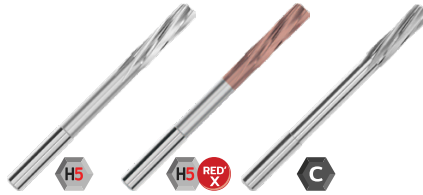
Standards

DIN 212-B
NFE 66014

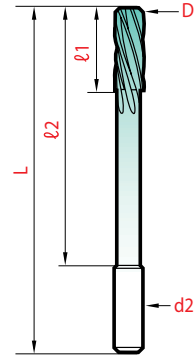
Tolerance

D

H7



D H7 (0.1mm Increment)		L	l1	l2	d2	Order Code		
mm	inch					HSSE	HSSE+Red'X	Carbide
						Model 06650	Model 066509	Model 068650
8.1 - 8.5		117	33	86	8	0665008X000	06650908X00	06865008X00
8.6 - 9.5		125	36	91	9	066500XX000	0665090XX00	0686500XX00
9.525	3/8"	125	36	91	9	06650095250	06650909525	06865009525
9.6 - 9.9		133	38	99	10	0665009X000	06650909X00	06865009X00
10.0		133	38	99	10	06650100000	06650910000	06865010000
10.1 - 11.3		133	38	99	10	066501XX000	0665091XX00	0686501XX00
11.112	7/16"	133	38	99	10	06650111200	06650911120	06865011120
11.4 - 11.9		151	44	106	12	0665011X000	06650911X00	06865011X00
12.0		151	44	106	12	06650120000	06650912000	06865012000
12.5		151	44	106	12	06650125000		06865012500
12.7	1/2"	151	44	106	12	06650127000		06865012700
13.0		151	44	106	12	06650130000		06865013000
13.5		160	47	110	14	06650135000		06865013500
14.0		160	47	110	14	06650140000		06865014000
14.287	9/16"	162	50	112	14	06650142870		06865014287
14.5		162	50	112	14	06650145000		06865014500
15.0		162	50	112	14	06650150000		06865015000
15.5		170	52	117	16	06650155000		06865015500
15.875	5/8"	170	52	117	16	06650158750		06865015875
16.0		170	52	117	16	06650160000		06865016000
16.5		175	54	122	16	06650165000		06865016500
17.0		175	54	122	16	06650170000		06865017000
17.5		182	56	129	16	06650175000		06865017500
18.0		182	56	129	16	06650180000		06865018000
18.5		189	58	136	16	06650185000		06865018500
19.0		189	58	136	16	06650190000		06865019000
19.05	3/4"	189	58	136	16	06650190500		06865019050
19.5		195	60	142	16	06650195000		06865019500
20.0		195	60	142	16	06650200000		06865020000



Ø 3.8 ~ 20.0

Reamers

i แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 3.5 = 066500**35**000
Replace X in Order Code with size. Ex. Size 3.5 = 066500**35**000

ดอกรีมเมอร์

Precision Machine Reamers (MT Shank) – รีมเมอร์เครื่อง ด้ามเทเปอร์

Standards

DIN 208-B
NFE 66015

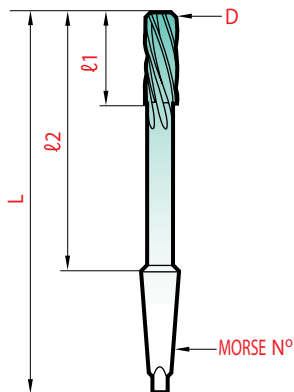


Tolerance

D H7



D (0.1mm Increment)		L	l1	l2	MORSE N°	Order Code
mm	inch					HSSE Model 06660
20.0		228	60	148	MT2	06660200000
20.5		232	62	152	MT2	06660205000
21.0		232	62	152	MT2	06660210000
21.5		237	64	157	MT2	06660215000
22.0		237	64	157	MT2	06660220000
22.225	7/8"	237	64	157	MT2	06660222250
22.5		241	66	161	MT2	06660225000
23.0		241	66	161	MT2	06660230000
24.0		271	68	171	MT3	06660240000
25.0		271	68	171	MT3	06660250000
25.4	1"	273	70	173	MT3	06660254000
26.0		273	70	173	MT3	06660260000
27.0		277	71	177	MT3	06660270000
28.0		277	71	177	MT3	06660280000
29.0		281	73	181	MT3	06660290000
30.0		281	73	181	MT3	06660300000
31.0		317	77	193	MT4	06660310000
32.0		317	77	193	MT4	06660320000
33.0		317	77	193	MT4	06660330000
34.0		321	78	197	MT4	06660340000
35.0		321	78	197	MT4	06660350000
36.0		325	79	201	MT4	06660360000
37.0		325	79	201	MT4	06660370000
38.0		329	81	205	MT4	06660380000
39.0		329	81	205	MT4	06660390000
40.0		329	81	205	MT4	06660400000
41.0		333	82	209	MT4	06660410000
42.0		333	82	209	MT4	06660420000
43.0		336	83	212	MT4	06660430000
44.0		336	83	212	MT4	06660440000
45.0		336	83	212	MT4	06660450000
46.0		344	86	220	MT4	06660460000
47.0		344	86	220	MT4	06660470000
48.0		344	86	220	MT4	06660480000
49.0		344	86	220	MT4	06660490000
50.0		344	86	220	MT4	06660500000
55.0		344	86	220	MT4	06660550000
60.0		344	86	220	MT4	06660600000



Reamers

Through Hole Internal Lubrication Reamers – รีมเมอร์เครื่องมีรูน้ำหล่อเย็น

Standards

DIN 212-B
NFE 66014

มีรูสำหรับฉีดน้ำหล่อเย็นสำหรับรีมรูทะลุ
Reamer with internal lubrication
for reaming through holes.

0.1mm
increment



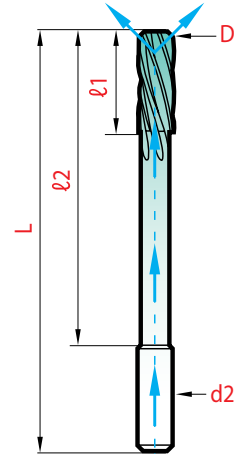
Tolerance

D

H7



D (0.01mm Increment)	L	f1	f2	d2 (h6)	Order Code
					Carbide
					Model 068660
3.9	75	19	51	4	06866003900
4.0	75	19	51	4	06866004000
4.0	75	19	51	4	06866004X00
4.3 - 4.7	75	19	51	4	06866004X00
4.8 - 4.9	86	23	60	5	06866004X00
5.0	86	23	60	5	06866005000
5.1 - 5.3	86	23	60	5	06866005X00
5.4 - 5.8	86	23	60	5	06866005X00
5.9	101	28	73	6	06866005900
6.0	101	28	73	6	06866006000
6.1 - 6.7	101	28	73	6	06866006X00
6.8 - 7.5	101	28	73	6	0686600XX00
7.6 - 7.9	117	33	86	8	06866007X00
8.0	117	33	86	8	06866008000
8.1 - 8.5	117	33	86	8	06866008X00
8.6 - 9.5	117	33	86	8	0686600XX00
9.6 - 9.9	133	38	99	10	06866009X00
10.0	133	38	99	10	06866010000
10.1 - 11.3	133	38	99	10	0686601XX00
11.4 - 11.9	151	44	106	12	06866011X00
12.0	151	44	106	12	06866012000



Reamers



แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 4.9 = 06866004900
Replace X in Order Code with size. Ex. Size 4.9 = 06866004900

ดอกรีมเมอร์

Through Hole Internal Lubrication Reamers – รีมเมอร์เครื่องมีรูน้ำหล่อเย็น

Standards

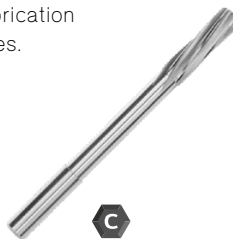
DIN 212-B
NFE 66014

มีรูสำหรับฉีดน้ำหล่อเย็นสำหรับรีมทะเล็ก
Reamer with internal lubrication
for reaming through holes.

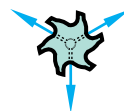


Tolerance

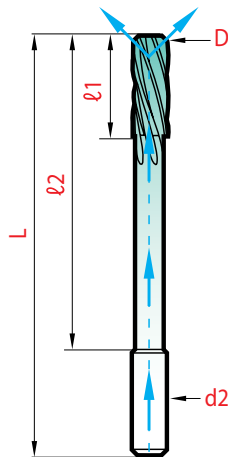
D 0 +0.005



0.01mm
increment



D (0.001mm Increment)	L	t1	t2	d2 (h6)	Order Code
					Carbide
					Model 068665
3.98 - 3.99	75	19	51	4	068665039X0
4.00	75	19	51	4	06866504000
4.01 - 4.02	75	19	51	4	068665040X0
4.98 - 4.99	86	23	60	5	068665049X0
5.00	86	23	60	5	06866505000
5.01 - 5.02	86	23	60	5	068665050X0
5.98 - 5.99	101	28	73	6	068665059X0
6.00	101	28	73	6	06866506000
6.01 - 6.02	101	28	73	6	068665060X0
7.98 - 7.99	117	33	86	8	068665079X0
8.00	117	33	86	8	06866508000
8.01 - 8.02	117	33	86	8	068665080X0
9.98 - 9.99	133	38	99	10	068665099X0
10.00	133	38	99	10	06866510000
10.01 - 10.02	133	38	99	10	068665100X0
11.98 - 11.99	151	44	106	12	068665119X0
12.00	151	44	106	12	06866512000
12.01 - 12.02	151	44	106	12	068665120X0



i แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 4.99 = 06866504990
Replace X in Order Code with size. Ex. Size 4.99 = 06866504990

Blind Hole Internal Lubrication Reamers – ริมเมอร์เครื่องมีรูน้ำหล่อเย็น

Standards

DIN 8089-C

มีรูสำหรับฉีดน้ำหล่อเย็นสำหรับริมเมอร์ไม่ทะลุ
Reamer with internal lubrication for reaming blind holes.

Tolerance

D

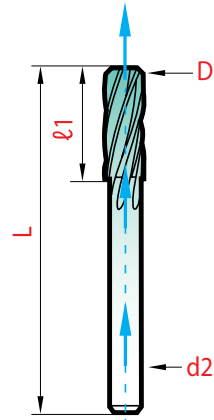
H7



0.1mm
increment



D (0.01mm Increment)	L	l1	d2 (h6)	Order Code
				Carbide
				Model 068670
3.9	56	20	4	06867003900
4.0	56	20	4	06867004000
4.1 - 4.2	56	20	4	06867004X00
4.3 - 4.7	56	20	4	06867004X00
4.8 - 4.9	63	22	4	06867004X00
5.0	63	22	4	06867005000
5.1 - 5.3	63	22	4	06867005X00
5.4 - 5.8	63	22	4	06867005X00
5.9	63	22	5	06867005900
6.0	63	22	5	06867006000
6.1 - 6.7	63	22	5	06867006X00
6.8 - 7.5	71	25	6.3	0686700XX00
7.6 - 7.9	71	25	6.3	06867007X00
8.0	71	25	6.3	06867008000
8.1 - 8.5	71	25	6.3	06867008X00
8.6 - 9.5	71	25	8	0686700XX00
9.6 - 9.9	71	25	8	06867009X00
10.0	71	25	8	06867010000
10.1 - 11.3	80	28	10	0686701XX00
11.4 - 11.9	80	28	10	06867011X00
12.0	80	28	10	06867012000



Reamers

i แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 4.9 = 06867004900
Replace X in Order Code with size. Ex. Size 4.9 = 06867004900

ดอกรีมเมอร์

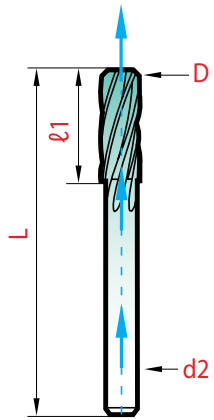
Blind Hole Internal Lubrication Reamers – รีมเมอร์เครื่องมีรูน้ำหล่อเย็น

Standards	DIN 8089-C
	Tolerance
D	0 +0.005

มีรูสำหรับฉีดน้ำหล่อเย็นสำหรับรีมเมอร์ไม่ทะลุ
Reamer with internal lubrication for
reaming blind holes.



D (0.001mm Increment)	L	f1	d2 (h6)	Order Code
				Carbide
				Model 068675
3.98 - 3.99	56	20	4	068675039X0
4.00	56	20	4	06867504000
4.01 - 4.02	56	20	4	068675040X0
4.98 - 4.99	63	22	4	068675049X0
5.00	63	22	4	06867505000
5.01 - 5.02	63	22	4	068675050X0
5.98 - 5.99	63	22	5	068675059X0
6.00	63	22	5	06867506000
6.01 - 6.02	63	22	5	068675060X0
7.98 - 7.99	71	25	6.3	068675079X0
8.00	71	25	6.3	06867508000
8.01 - 8.02	71	25	6.3	068675080X0
9.98 - 9.99	71	25	8	068675099X0
10.00	71	25	8	06867510000
10.01 - 10.02	80	28	10	068675100X0
11.98 - 11.99	80	28	10	068675119X0
12.00	80	28	10	06867512000
12.01 - 12.02	80	28	10	068675120X0



Reamers

i แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 4.99 = 06867504990
Replace X in Order Code with size. Ex. Size 4.99 = 06867504990

Micro High Precision Reamers – รีมเมอร์ขนาดไมโคร ความเที่ยงตรงสูง

Standards

Magafor
Standard

ขนาดเล็กพิเศษ ด้วยเทคโนโลยีการผลิตเฉพาะของ
Magafor และกำหนดใหญ่ที่ออกแบบมาเพื่อการ
รีมที่ต้องใช้ความเที่ยงตรงสูง

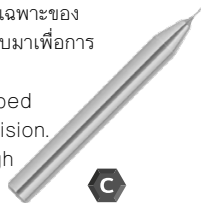
0.005mm
increment



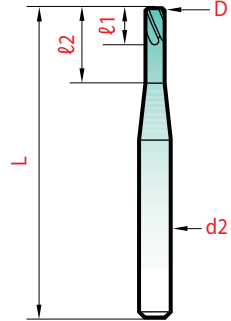
Tolerance

D ± 0.001

Produced with Magafor developed
technology to the highest precision.
The reinforced shank offers high
stability in precision operation.



D (0.005mm Increment)	L	l1	l2	d2 (h5)	Order Code
					Carbide
					Code 068610
0.200 - 0.245	39	0.9	2.0	3	068610002XX
0.250 - 0.295	39	1.1	2.5	3	068610002XX
0.300 - 0.345	39	1.4	3.0	3	068610003XX
0.350 - 0.395	39	1.7	3.5	3	068610003XX
0.400 - 0.495	39	2.0	4.0	3	068610004XX
0.500 - 0.595	39	2.3	5.0	3	068610005XX



i แทน X ใน Order Code ด้วยตัวเลขขนาดที่ต้องการ เช่น ขนาด 0.295 = 06861000295
Replace X in Order Code with size. Ex. Size 0.295 = 06861000295

ข้อแนะนำการใช้งาน ดอกรีมเมอร์ขนาดไมโคร

Recommendations of use for Micro Reamers

Materials	Speed m/min.	Feed mm/rev.			
	Materials	D			
	Carbide	0.200 - 0.345	0.350 - 0.445	0.450 - 0.545	0.550 - 0.595
Steel < 500 N/mm ²	20 - 25	0.01	0.015	0.02	0.030
Steel 500 - 800 N/mm ²	15 - 20	0.01	0.015	0.02	0.030
Steel 800 - 1000 N/mm ²	10 - 15	0.01	0.015	0.02	0.030
Steel 800 - 1300 N/mm ²	8 - 10	0.01	0.015	0.02	0.030
Stainless Steel	7 - 12	0.01	0.015	0.02	0.030
Inconel	5 - 10	0.01	0.015	0.02	0.030
Cast Iron < 180HB	15 - 20	0.01	0.015	0.02	0.035
Cast Iron > 180HB	10 - 15	0.01	0.015	0.02	0.035
Copper	20 - 25	0.01	0.015	0.02	0.035
Brass	30 - 35	0.01	0.015	0.02	0.030
Bronze	15 - 20	0.01	0.015	0.02	0.035
Aluminum	15 - 20	0.01	0.015	0.02	0.035
Drilling Diameter / ขนาดรูเจาะเพื่อเตรียมรีม		-0.06	-0.08	-0.10	-0.12

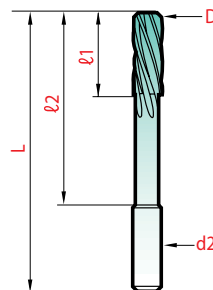
ดอกรีมเมอร์

Shrink Fit Reamers – รีมเมอร์สำหรับที่จับแบบ Shrink Fit

Standards	Magafor Standard	Tolerance	
		D	H7



D	L	t1	t2	d2 (h6)	Order Code
					Carbide
					Code 068620
4	60	16	35	4	06862004000
4.5	70	16	45	5	06862004500
5	70	16	45	5	06862005000
5.5	80	16	55	6	06862005500
6	80	16	55	6	06862006000
7	90	18	60	8	06862007000
8	90	18	60	8	06862008000
9	90	18	60	8	06862009000
10	115	20	75	10	06862010000
11	115	20	75	10	06862011000
12	130	20	80	12	06862012000
13	130	20	80	12	06862013000
14	130	20	80	12	06862014000
15	130	20	80	12	06862015000
16	140	25	90	16	06862016000
18	140	25	90	16	06862018000
20	140	25	90	16	06862020000

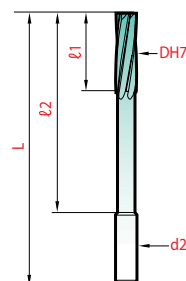


Blind Hole Reamers – รีมเมอร์เครื่องสำหรับรูตัน

Standards	Magafor Standard	Tolerance	
		D	H7



D	L	t1	t2	d2 (h8)	Order Code
					Carbide
					Model 068615
3.0	57	15	38	3.0	06861503000
4.0	75	19	49	4.0	06861504000
4.5	80	21	51	4.5	06861504500
5.0	86	23	59	5.0	06861505000
5.5	93	26	65	5.5	06861505500
6.0	101	28	71	6.0	06861506000
7.0	109	31	78	7.0	06861507000
8.0	117	33	84	8.0	06861508000
9.0	125	36	88	9.0	06861509000
10.0	133	38	97	10.0	06861510000
12.0	151	44	110	12.0	06861512000



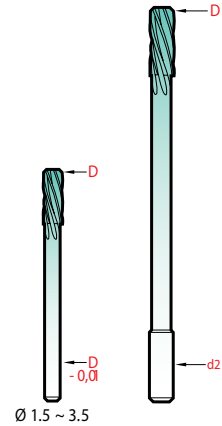
Long Machine Reamer – ริมเมอร์รุ่นยาว



Standards	Magafor Standard	Tolerance	
		D	H7

D	L	t1	t2	d2	Order Code
					HSSE
					Model 06680
1.5	55	12	35	1.5	06680015000
2.0	65	14	45	2	06680020000
2.5	75	14	55	2.5	06680025000
3.0	90	14	70	3	06680030000
3.5	90	14	70	3.5	06680035000
4.0	105	16	80	4	06680040000
4.5	105	16	80	4.5	06680045000
5.0	115	16	90	5	06680050000
5.5	115	16	90	5.5	06680055000
6.0	130	16	100	6	06680060000
6.35 (1/4")	130	16	100	6	06680063500
6.5	130	16	100	6	06680065000
7.0	140	18	110	7	06680070000
7.5	140	18	110	7	06680075000
8.0	160	18	130	8	06680080000
8.5	160	18	130	8	06680085000
9.0	175	18	140	9	06680090000
9.5	175	18	140	9	06680095000
10.0	190	20	150	10	06680100000
11.0	200	20	160	10	06680110000
12.0	210	20	160	12	06680120000

D	L	t1	t2	d2	Order Code
					HSSE
					Model 06683
1.5	65	15	45	1.5	06683015000
2.0	80	20	60	2	06683020000
2.5	100	25	80	2.5	06683025000
3.0	120	30	100	3	06683030000
3.5	140	30	120	3.5	06683035000
4.0	160	30	135	4	06683040000
4.5	180	30	155	4.5	06683045000
5.0	200	30	175	5	06683050000
5.5	220	30	195	5.5	06683055000
6.0	250	35	220	6	06683060000
7.0	250	35	220	7	06683070000
8.0	250	35	220	8	06683080000
9.0	250	35	220	9	06683090000
10.0	250	35	220	10	06683100000



รุ่นยาวพิเศษ
Extra-Long

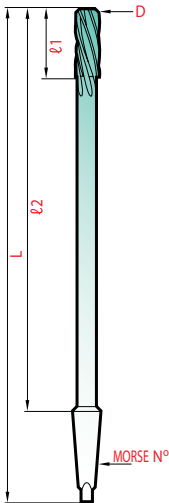
ดอกรีมเมอร์

Long Machine Reamer (MT Shank) – รีมเมอร์รุ่นยาว ก้านเทเปอร์

Standards	Magafor Standard	Tolerance	
		D	H7



D	L	t1	t2	MORSE N°	Order Code
					HSSE
					Model 06685
12.5	245	22	180	MT1	06685125000
12.7 (1/2")	245	22	180	MT1	06685127000
13.0	245	22	180	MT1	06685130000
14.0	245	22	180	MT1	06685140000
15.0	260	22	180	MT2	06685150000
16.0	260	25	180	MT2	06685160000
18.0	260	25	180	MT2	06685180000
20.0	270	28	190	MT2	06685200000
22.0	280	28	200	MT2	06685220000
24.0	300	32	200	MT3	06685240000
25.0	320	32	220	MT3	06685250000
26.0	330	32	230	MT3	06685260000
28.0	340	32	240	MT3	06685280000
30.0	350	36	250	MT3	06685300000
32.0	375	36	250	MT4	06685320000
34.0	375	36	250	MT4	06685340000
36.0	375	40	250	MT4	06685360000
38.0	395	40	270	MT4	06685380000
40.0	395	40	270	MT4	06685400000
42.0	405	40	280	MT4	06685420000
45.0	405	45	280	MT4	06685450000
50.0	415	45	290	MT4	06685500000



รุ่นยาวพิเศษ Extra-Long

D	L	t1	t2	MORSE N°	Order Code
					HSSE
					Model 06687
12.0	315	40	250	MT1	06687120000
14.0	315	40	250	MT1	06687140000
16.0	350	45	270	MT2	06687160000
18.0	350	45	270	MT2	06687180000
20.0	350	45	270	MT2	06687200000
22.0	350	45	270	MT2	06687220000
24.0	450	70	350	MT3	06687240000
25.0	450	70	350	MT3	06687250000
26.0	450	70	350	MT3	06687260000
28.0	450	70	350	MT3	06687280000
30.0	450	70	350	MT3	06687300000
35.0	475	70	350	MT4	06687350000
40.0	475	70	350	MT4	06687400000

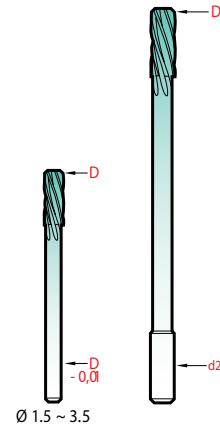


Carbide Long Machine Reamer – รีเมอร์คาร์ไบด์ร่นยาว



Standards	Magafor Standard	Tolerance	
		D	H7

D	L	t1	t2	d2	Order Code
					Carbide
					Model 068680
3.0	90	14	70	3	06868003000
3.5	90	14	70	3.5	06868003500
4.0	105	16	80	4	06868004000
4.5	105	16	80	4.5	06868004500
5.0	115	16	90	5	06868005000
5.5	115	16	90	5.5	06868005500
6.0	130	16	100	6	06868006000
7.0	140	18	110	7	06868007000
8.0	160	18	130	8	06868008000
9.0	175	18	140	9	06868009000
10.0	190	20	150	10	06868010000
11.0	190	20	150	10	06868011000
12.0	220	22	170	12	06868012000
13.0	220	22	170	12	06868013000
14.0	220	22	170	12	06868014000
15.0	220	22	170	12	06868015000
16.0	230	25	180	16	06868016000
18.0	230	25	180	16	06868018000
20.0	230	25	180	16	06868020000



D	L	t1	t2	d2	Order Code
					Carbide
					Model 068688
10.0	650	35	600	10	06868810000
12.0	650	40	600	10	06868812000
14.0	650	45	600	12	06868814000
16.0	650	50	600	12	06868816000
18.0	650	55	600	16	06868818000
20.0	650	60	600	16	06868820000



ร่นยาวพิเศษ
Extra-Long

ดอกรีมเมอร์

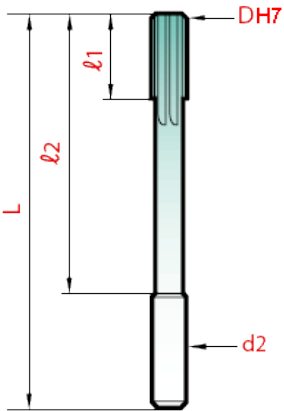
Straight Flute Reamers – รีมเมอร์เกลียวตรง

Standards	DIN 212-A NFE 66014
	Tolerance D H7

แนะนำใช้กับ
เหล็กหล่อ / ทองเหลือง
Recommend for
Cast Iron / Bronze



D	L	ℓ1	ℓ2	d2	Order Code
					HSSE
					Model 06610
1.5	43	18	26	1.5	06610015000
2.0	49	19	31	2.0	06610020000
2.5	57	20	38	2.5	06610025000
3.0	57	20	38	3.0	06610030000
4.0	75	24	51	4.0	06610040000
5.0	86	26	60	5.0	06610050000
6.0	101	28	73	6.0	06610060000
7.0	109	31	80	7.0	06610070000
8.0	117	33	86	8.0	06610080000
9.0	125	36	91	9	06610090000
10.0	133	38	99	10	06610100000
11.0	133	38	99	10	06610110000
12.0	151	44	106	12	06610120000
13.0	151	44	106	12	06610130000
14.0	160	47	110	14	06610140000
15.0	162	50	112	14	06610150000
16.0	170	52	117	16	06610160000
17.0	175	54	122	16	06610170000
18.0	182	56	129	16	06610180000
20.0	195	60	142	16	06610200000



Reamers

Straight Flute Reamers – รีมเมอร์เกลียวตรง

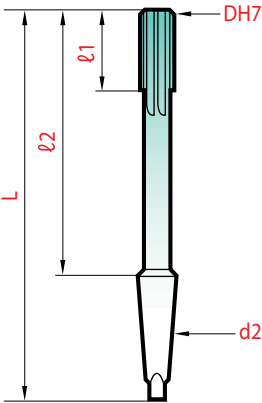


Standards	DIN 208-A NFE 66015
	Tolerance D H7

แนะนำใช้กับ
เหล็กหล่อ / ทองเหลือง
Recommend for
Cast Iron / Bronze



D	L	ℓ1	ℓ2	d2 Morse Taper	Order Code
					HSSE
					Model 06620
6.0	138	28	72	MT1	06620060000
8.0	156	33	90	MT1	06620080000
10.0	168	38	102	MT1	06620100000
12.0	182	44	116	MT1	06620120000
13.0	182	44	116	MT1	06620130000
14.0	189	47	123	MT1	06620140000
15.0	204	50	124	MT2	06620150000
16.0	210	52	130	MT2	06620160000
17.0	214	54	134	MT2	06620170000
18.0	219	56	139	MT2	06620180000
19.0	223	58	143	MT2	06620190000
20.0	228	60	148	MT2	06620200000
21.0	237	64	157	MT2	06620210000
22.0	237	64	157	MT2	06620220000
24.0	271	68	171	MT3	06620240000
25.0	271	68	171	MT3	06620250000
26.0	273	70	173	MT3	06620260000
28.0	277	71	177	MT3	06620280000
30.0	281	73	181	MT3	06620300000



Reamers

ดอกรีมเมอร์

High Helix Reamers (45°) – รีมเมอร์เกลียวเลี้ยว

Standards	DIN 212-E
	NFE 66014

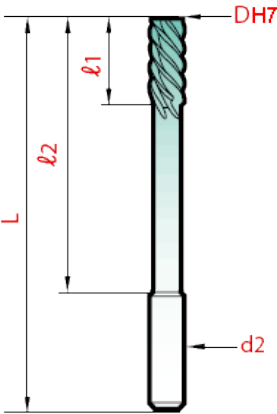
แนะนำใช้กับ
อลูมิเนียม
Recommend for
Light Alloy / Aluminum



Tolerance	
D	H7



D	L	ℓ1	ℓ2	d2 (h8)	Order Code
					HSSE
					Model 06630
1.5	43	18	26	1.5	06630015000
2.0	49	19	31	2.0	06630020000
2.5	57	20	38	2.5	06630025000
3.0	61	15	42	3.0	06630030000
3.5	70	18	46	3.5	06630035000
4.0	75	19	51	4.0	06630040000
4.5	80	21	55	4.5	06630045000
5.0	86	23	60	5.0	06630050000
5.5	93	26	66	5.5	06630055000
6.0	93	26	73	6	06630060000
7.0	109	31	80	7	06630070000
8.0	117	33	86	8	06630080000
9.0	125	35	91	9	06630090000
10.0	133	38	99	10	06630100000
11.0	142	41	99	10	06630110000
12.0	151	44	106	12	06630120000
13.0	151	44	106	12	06630130000
14.0	160	47	110	12	06630140000
15.0	162	47	110	12	06630150000



Reamers

High Helix Reamers (45°) – รีมเมอร์เกลียวเลี้ยว

Standards

DIN 208-E
NFE 66015

แนะนำใช้กับ

อลูมิเนียม

Recommend for

Light Alloy / Aluminum



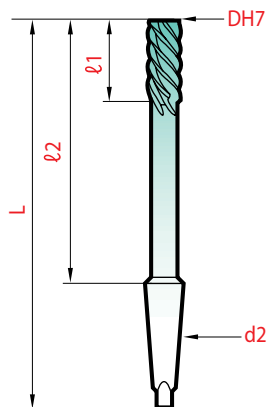
Tolerance

D

H7



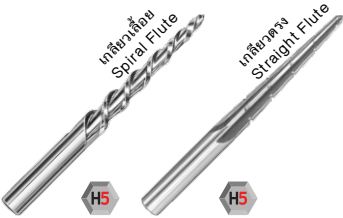
D	L	t1	t2	d2 Morse Taper	Order Code
					HSSE
					Model 06640
6.0	138	28	72	MT1	06640060000
8.0	156	33	90	MT1	06640080000
10.0	168	38	102	MT1	06640100000
12.0	182	44	116	MT1	06640120000
14.0	189	47	123	MT1	06640140000
15.0	204	50	124	MT2	06640150000
16.0	210	52	130	MT2	06640160000
18.0	219	56	139	MT2	06640180000
20.0	228	60	148	MT2	06640200000
22.0	237	64	157	MT2	06640220000
24.0	271	68	171	MT3	06640240000
25.0	271	68	171	MT3	06640250000
26.0	273	70	173	MT3	06640260000
27.0	277	71	177	MT3	06640270000
28.0	277	71	177	MT3	06640280000
29.0	281	73	181	MT3	06640290000
30.0	281	73	181	MT3	06640300000
32.0	317	77	193	MT4	06640320000
34.0	321	78	197	MT4	06640340000
35.0	321	78	197	MT4	06640350000
40.0	329	81	205	MT4	06640400000



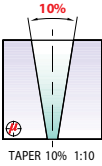
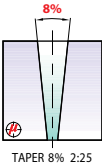
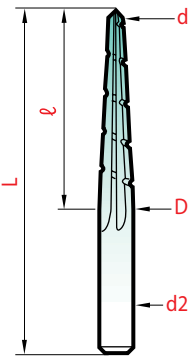
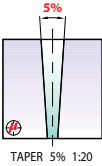
Reamers

Sprue Taper Reamers – เทเปอร์รีมเมอร์ รูน้ำแม่พิมพ์

Standards	Magafor Standard	
Tolerance		
D	±0.05	
d	±0.05	



Taper	D	d	L	ℓ	d2	Order Code	
						45° Spiral	Straight Flute
						HSSE	HSSE
						Model 06740	Model 06745
5% 1:20 2° 51'	2	1	50	20	2		06745020000
	4	2	80	40	4.0		06745040000
	6	3	110	60	6.0	06740060000	06745060000
	8	4	130	80	8.0	06740080000	06745080000
	10	5	155	100	10.0	06740100000	06745100000
	12	6	180	120	12.0	06740120000	06745120000
	14	7	200	140	14.0	06740140000	06745140000
	16	8	260	160	MT2	06740160000	
8% 2:25 4° 34'	18	9	278	180	MT2	06740180000	
	20	10	300	200	MT2	06740200000	
	6	2	100	50	6	06750060000	06755060000
	8	3	110	62	8	06750080000	06755080000
	10	4	130	75	10	06750100000	06755100000
	12	5	150	90	12	06750120000	06755120000
	14	6	160	100	14	06750140000	06755140000
	16	7	210	112	MT2	06750160000	
10% 1:10 5° 42'	18	8	223	125	MT2	06750180000	
	20	9	236	137	MT2	06750200000	
	4	1.5	65	25	4	06760040000	
	6	2	90	40	6	06760060000	06765060000
	8	3	100	50	8	06760080000	06765080000
	10	4	115	60	10	06760100000	06765100000
	12	5	130	70	12	06760120000	06765120000
	14	6	140	80	14	06760140000	06765140000
	16	7	190	90	MT2	06760160000	
	18	8	200	100	MT2	06760180000	
	20	9	210	110	MT2	06760200000	
	25	12	250	130	MT3	06760250000	
	30	14	280	160	MT3	06760300000	

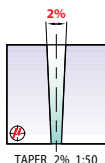


Reamers

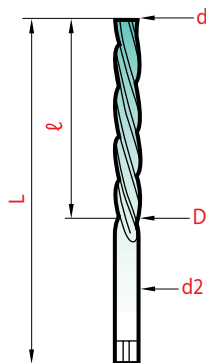
Machine Taper Pin Reamers – เทเปอร์พินรีมเมอร์

Standards

DIN 2179
NFE 66009



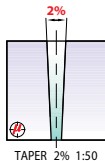
Nominal Size	d	D	L	ℓ	d2	Order Code
						HSS
						Model 06711
2.0	1.9	2.86	86	48	3.15	06711020000
2.5	2.4	3.36	86	48.0	3.15	06711025000
3.0	2.9	4.06	100	58.0	4.00	06711030000
4.0	3.9	5.26	112	68.0	5.00	06711040000
5.0	4.9	6.36	122	73.0	6.30	06711050000
6.0	5.9	8.00	160	105.0	8.00	06711060000
8.0	7.9	10.80	207	145.0	10.00	06711080000
10.0	9.9	13.40	245	175.0	12.50	06711100000
12.0	11.8	16.00	290	210.0	16.00	06711120000



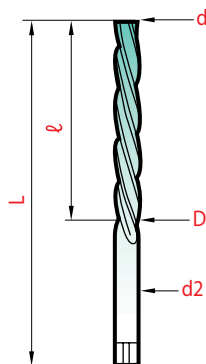
Machine Taper Pin Reamers (Morse Taper Shank) – เทเปอร์พินรีมเมอร์

Standards

DIN 2180
NFE 66010



Nominal Size	d	D	L	ℓ	d2 Morse Taper	Order Code
						HSS
						Model 06731
5.0	4.9	6.36	155	73	MT1	06731050000
6.0	5.9	8.00	187	105	MT1	06731060000
8.0	7.9	10.80	227	145	MT1	06731080000
10.0	9.9	13.40	257	175	MT1	06731100000
12.0	11.8	16.00	315	210	MT2	06731120000
16.0	15.8	20.40	335	230	MT2	06731160000
20.0	19.8	24.80	377	250	MT3	06731200000
25.0	24.7	30.70	427	300	MT3	06731250000
30.0	29.7	36.10	475	320	MT4	06731300000
40.0	39.7	46.50	495	340	MT4	06731400000
50.0	49.7	56.90	550	360	MT5	06731500000



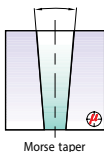
Reamers

ดอกรีมเมอร์

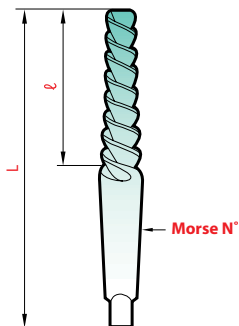
Morse Taper Reamers – รีมเมอร์สำหรับมอสเทเปอร์

Standards

DIN 1895-D



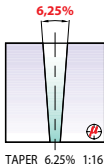
Morse Taper	L	ℓ	Morse Taper Shank	Order Code
				HSS
				Model 06780
0	137	61	MT1	06780000000
1	142	66	MT1	06780100000
2	173	79	MT2	06780200000
3	212	96	MT3	06780300000
4	263	119	MT4	06780400000
5	331	150	MT5	06780500000



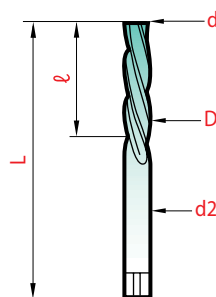
Gas Taper Reamers – รีมเมอร์สำหรับท่อแก๊ส

Standards

Magafor Standard



Nominal	d	D	L	ℓ	d2	Order Code
						HSS
						Model 06785
1/8"	7.9	9.2	59	22	8	06785018000
1/4"	10.7	12.1	67	23	10	06785014000
3/8"	14.0	15.6	75	26	12.5	06785038000
1/2"	17.2	19.3	87	34	16	06785012000
3/4"	22.7	24.8	96	34	20	06785034000
1"	28.4	30.8	109	39	25	06785010000



ข้อแนะนำการใช้งาน ดอกรีมเมอร์ Recommendations of use for Reamers



Materials	Speed m/min.		Feed mm/rev.									Recommend
	Materials		D									
	Carbide	HSS	1	2	6	10	15	20	25	30	40	Page
Steel < 500 N/mm ²	25 - 40	15 - 22	0.07	0.15	0.15	0.25	0.25	0.30	0.35	0.37	0.45	Model 06600 06650 Page 55 - 59
Steel 500-800 N/mm ²	20 - 25	12 - 17	0.07	0.10	0.12	0.18	0.18	0.25	0.30	0.33	0.40	
Steel 800-1000 N/mm ²	12 - 18	7 - 10	0.07	0.08	0.10	0.18	0.15	0.22	0.25	0.30	0.35	
Steel 800-1300 N/mm ²	10 - 15	5 - 7	0.07	0.08	0.06	0.15	0.20	0.25	0.27	0.30	0.35	Model 068600 068650 Page 55 - 59
Stainless Steel	7 - 12	3 - 5	0.07	0.07	0.10	0.12	0.15	0.20	0.25	0.25	0.30	
Inconel	6 - 10	2 - 3	0.07	0.07	0.10	0.12	0.15	0.20	0.25	0.25	0.30	
Cast Iron < 180HB	15 - 20	6 - 15	0.08	0.10	0.12	0.20	0.20	0.25	0.30	0.30	0.30	Page 69 - 70
Cast Iron > 180HB	8 - 15	4 - 5	0.08	0.07	0.10	0.15	0.18	0.20	0.20	0.25	0.25	Model 06600 06650 Page 55 - 59
Copper	25 - 30	12 - 20	0.08	0.12	0.18	0.20	0.25	0.30	0.30	0.35	0.40	
Brass	35 - 40	20 - 30	0.07	0.20	0.22	0.30	0.35	0.40	0.40	0.45	0.50	Model 06610 06620 Page 69 - 70
Bronze	20 - 25	12 - 17	0.08	0.15	0.18	0.22	0.35	0.37	0.37	0.45	0.50	
Aluminum	40 - 60	25 - 35	0.08	0.15	0.18	0.25	0.30	0.35	0.35	0.40	0.45	Page 71 - 72
Drilling Diameter / ขนาดรูเจาะเพื่อเตรียมรู			0.90	1.85	5.80	9.7	14.6	19.6	24.5	29.5	39.5	Model 068615
			0.95	1.90	5.85	9.8	14.7	19.7	24.7	29.6	39.6	Page 65