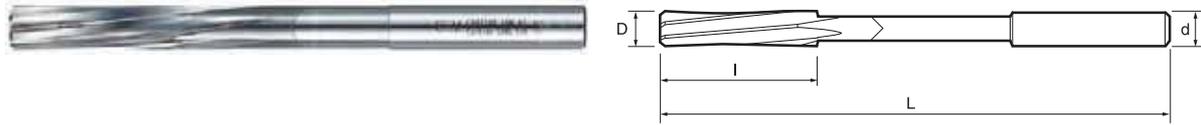


# Carbide Spiral Chucking Reamer-7° ST

초경 스파이럴 척킹리머 - 7° ST



### ■ 제품사양

- Carbide, DIN, H7
- 부등분할 리머, ~ HRC 50
- 울초경, 탑 솔리드
- Helix 7° & ST Shank
- AL 가공에 우수, 관통 구멍용
- 정밀금형가공시 추천

### ■ Application

- Carbide, DIN, H7 Tolerance
- Unequal Flutes, ~ HRC 50
- LH Helical 7° & ST Shank
- All and Top Solid
- Suitable For Through Holes
- For Mold Hole

※ 관련 페이지

p20, 스파이럴 척킹 리머 (ST,M42)

p56, 초경 롱 스파이럴 척킹 리머

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

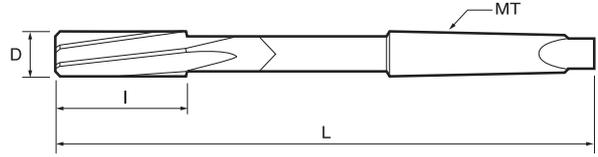
Code No.	D	d	L	l	Memo
GEM C407008~9	0.8~0.9M	D	43	8	
GEM C407010~4	1.0~1.4M	D	43	8	
GEM C407015	1.5M	D	43	8	
GEM C407016~9	1.6~1.9M	D	43	8	
GEM C407020	2.0 M	3	62	15	
GEM C407030	3.0 M	3	62	15	
GEM C407040	4.0 M	4	62	19	
GEM C407050	5.0 M	5	79	23	
<b>GEM C407060</b>	<b>6.0 M</b>	<b>6</b>	<b>79</b>	<b>25</b>	
GEM C407070	7.0 M (B)	7	109	27	
<b>GEM C407080</b>	<b>8.0 M (B)</b>	<b>8</b>	<b>117</b>	<b>28</b>	
GEM C407090	9.0 M (B)	9	125	29	
<b>GEM C407100</b>	<b>10.0 M (B)</b>	<b>10</b>	<b>133</b>	<b>32</b>	
GEM C407110	11.0 M (B)	10	142	32	
<b>GEM C407120</b>	<b>12.0 M (B)</b>	<b>10</b>	<b>151</b>	<b>35</b>	
GEM C407130	13.0 M (B)	10	151	35	
<b>GEM C407140</b>	<b>14.0 M (B)</b>	<b>16</b>	<b>200</b>	<b>36</b>	
GEM C407150	15.0 M (B)	16	200	36	
<b>GEM C407160</b>	<b>16.0 M (B)</b>	<b>16</b>	<b>200</b>	<b>38</b>	
GEM C407170	17.0 M (B)	16	200	38	
GEM C407180	18.0 M (B)	20	200	38	
GEM C407190	19.0 M (B)	20	200	38	
<b>GEM C407200</b>	<b>20.0 M (B)</b>	<b>20</b>	<b>200</b>	<b>38</b>	
GEM C407220	22.0 M (B)	20	235	42	
GEM C407250	25.0 M (B)	25	260	45	
GEM C407300	30.0 M (B)	32	305	48	
GEM C407320	32.0 M (B)	32	315	48	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Spiral Chucking Reamer-7° MT

초경 스파이럴 척킹리머 - 7° MT



■ 제품사양

- Carbide, DIN, H7
- 부등분할 리머, ~ HRC 50
- 울초경, 탑 솔리드
- Helix 7° & MT Shank
- AL 가공에 우수, 관통 구멍용
- 정밀금형가공시 추천

■ Application

- Carbide, DIN, H7 Tolerance
- Unequal Flutes, ~ HRC 50
- LH Helical 7° & MT Shank
- All and Top Solid
- Suitable For Through Holes
- For Mold Hole

※ 관련 페이지

p21, 스파이럴 척킹 리머 (MT, M42)

p56, 초경 롱 스파이럴 척킹 리머

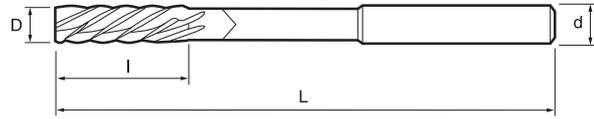
Code No.	D	L	I	MT	Memo
GEM C407060M	6 (B)	130	26	MT1 (65)	
GEM C407080M	8 (B)	150	28		
<b>GEM C407100M</b>	<b>10 (B)</b>	<b>160</b>	<b>32</b>		
<b>GEM C407120M</b>	<b>12 (B)</b>	<b>180</b>	<b>35</b>		
GEM C407130M	13 (B)	190	35		
<b>GEM C407140M</b>	<b>14 (B)</b>	<b>190</b>	<b>36</b>		
GEM C407150M	15 (B)	205	36	MT2 (80)	
<b>GEM C407160M</b>	<b>16 (B)</b>	<b>205</b>	<b>38</b>		
GEM C407170M	17 (B)	210	38		
GEM C407180M	18 (B)	220	38		
GEM C407190M	19 (B)	220	38		
<b>GEM C407200M</b>	<b>20 (B)</b>	<b>230</b>	<b>38</b>		
GEM C407220M	22 (B)	240	42	MT3 (100)	
<b>GEM C407250M</b>	<b>25 (B)</b>	<b>270</b>	<b>45</b>		
GEM C407300M	30 (B)	280	48		
GEM C407320M	32 (B)	300	48		

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Hi Helical Reamer-45° ST

초경 하이 헤리컬리머 - 45° ST



### ■ 제품사양

- Carbide, DIN, H7
- 올초경, 탑 솔리드
- 기계가공용, 관통 구멍용
- Helix 45° ST Shank, ~ HRC 50
- 일반리머 보다 절삭속도와 가공면이 매우 우수

### ■ Application

- Carbide, DIN, H7 Tolerance
- All and Top Solid, ~ HRC 50
- LH Helical 45° & ST Shank
- Suitable For Through Holes
- Much Higher Feed Rate
- Excellent Finish Surface

※ 관련 페이지

p25, 하이 헤리컬 리머 (ST,M42)  
p55, 초경 롱 하이 헤리컬 리머

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

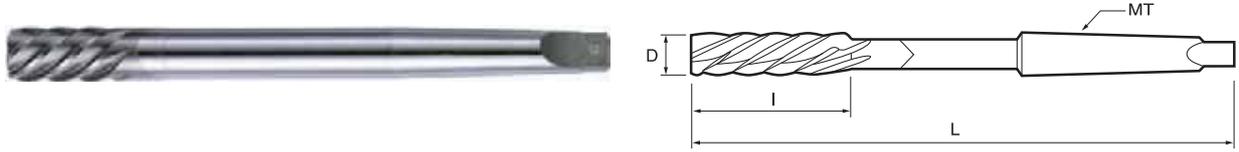
Code No.	D	d	L	l	Memo
GEM C445020	2	3	62	12	
GEM C445030	3	4	62	12	
GEM C445040	4	4	62	12	
GEM C445050	5	6	79	16	
<b>GEM C445060</b>	<b>6</b>	<b>6</b>	<b>79</b>	<b>16</b>	
GEM C445070	7 (B)	8	109	20	
<b>GEM C445080</b>	<b>8 (B)</b>	<b>8</b>	<b>117</b>	<b>20</b>	
GEM C445090	9 (B)	10	125	26	
<b>GEM C445100</b>	<b>10 (B)</b>	<b>10</b>	<b>133</b>	<b>26</b>	
GEM C445110	11 (B)	12	142	28	
<b>GEM C445120</b>	<b>12 (B)</b>	<b>12</b>	<b>151</b>	<b>28</b>	
GEM C445130	13 (B)	12	151	30	
<b>GEM C445140</b>	<b>14 (B)</b>	<b>16</b>	<b>200</b>	<b>35</b>	
GEM C445150	15 (B)	16	200	35	
<b>GEM C445160</b>	<b>16 (B)</b>	<b>16</b>	<b>200</b>	<b>36</b>	
GEM C445170	17 (B)	16	200	38	
GEM C445180	18 (B)	20	200	38	
GEM C445190	19 (B)	20	200	38	
<b>GEM C445200</b>	<b>20 (B)</b>	<b>20</b>	<b>200</b>	<b>38</b>	
GEM C445220	22 (B)	20	235	42	
GEM C445250	25 (B)	25	260	45	
GEM C445300	30 (B)	32	305	48	
GEM C445320	32 (B)	32	315	48	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Hi Helical Reamer-45° MT

\_ 초경 하이 헤리컬리머 - 45° MT



■ 제품사양

- Carbide, DIN, H7
- 올초경, 탑 솔리드, ~ HRc 50
- 기계가공용, 관통 구멍용
- Helix 45° & MT Shank,
- 일반리머 보다 절삭속도와 가공면이 매우 우수

■ Application

- Carbide, DIN, H7 Tolerance
- All and Top Solid, ~ HRc 50
- LH Helical 45° & MT Shank
- Suitable For Through Holes
- Much Higher Feed Rate
- Excellent Finish Surface

※ 관련 페이지

p26, 하이 헤리컬 리머 (MT,M42)

p55, 초경 롱 하이 헤리컬 리머

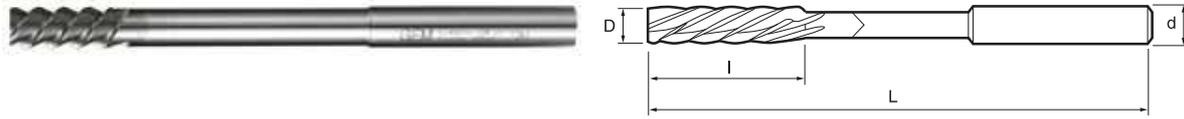
Code No.	D	L	I	MT	Memo
GEM C445060M	6 (B)	130	26	MT1 (65)	
GEM C445080M	8 (B)	150	28		
<b>GEM C445100M</b>	<b>10 (B)</b>	<b>160</b>	<b>32</b>		
<b>GEM C445120M</b>	<b>12 (B)</b>	<b>180</b>	<b>35</b>		
GEM C445130M	13 (B)	190	35		
<b>GEM C445140M</b>	<b>14 (B)</b>	<b>190</b>	<b>36</b>		
GEM C445150M	15 (B)	205	36	MT2 (80)	
<b>GEM C445160M</b>	<b>16 (B)</b>	<b>205</b>	<b>38</b>		
GEM C445170M	17 (B)	210	38		
GEM C457180M	18 (B)	220	38		
GEM C445190M	19 (B)	220	38		
<b>GEM C445200M</b>	<b>20 (B)</b>	<b>230</b>	<b>38</b>		
GEM C445220M	22 (B)	240	42	MT3 (100)	
<b>GEM C445250M</b>	<b>25 (B)</b>	<b>270</b>	<b>45</b>		
GEM C445300M	30 (B)	280	48		
GEM C445320M	32 (B)	300	48		

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Super Helical Reamer-60° ST

초경 슈퍼 헤리컬리머 - 60° ST



■ 제품사양

- Carbide, JIS
- J5(~+0.005), ~ HRc 50
- 절삭속도, 가공면 향상
- All solid, Top solid
- 60° 좌비틀리머

■ Application

- Carbide, JIS
- J5(~+0.005), LH60°
- All and Top Solid, ~ HRc 50
- Much Higher Feed Rate
- Excellent Finish Surface

※ 관련 페이지

p27, 슈퍼 헤리컬리머 - 60° ST

Code No.	D	L	I	d	Flutes	Memo
GEM JC460030	3.0M	62	20	3	3	
GEM JC460040	4.0M	62	24	4	3	
GEM JC460050	5.0M	100	26	5	3	
<b>GEM JC460060</b>	<b>6.0M</b>	<b>100</b>	<b>28</b>	<b>6</b>	<b>3</b>	
GEM JC460070	7.0M (B)	100	31	7	3	
<b>GEM JC460080</b>	<b>8.0M (B)</b>	<b>125</b>	<b>33</b>	<b>8</b>	<b>3</b>	
<b>GEM JC460090</b>	<b>9.0M (B)</b>	<b>135</b>	<b>36</b>	<b>9</b>	<b>3</b>	
<b>GEM JC460100</b>	<b>10.0M (B)</b>	<b>155</b>	<b>38</b>	<b>10</b>	<b>3</b>	
GEM JC460110	11.0M (B)	165	38	10	3	
<b>GEM JC460120</b>	<b>12.0M (B)</b>	<b>165</b>	<b>44</b>	<b>12</b>	<b>3</b>	
GEM JC460130	13.0M (B)	165	44	12	3	
GEM JC460140	14.0M (B)	180	47	12	4	
GEM JC460150	15.0M (B)	180	50	16	4	
<b>GEM JC460160</b>	<b>16.0M (B)</b>	<b>180</b>	<b>52</b>	<b>16</b>	<b>4</b>	
GEM JC460170	17.0M (B)	210	54	16	4	
GEM JC460180	18.0M (B)	210	56	16	4	
GEM JC460190	19.0M (B)	230	58	20	4	
<b>GEM JC460200</b>	<b>20.0M (B)</b>	<b>230</b>	<b>60</b>	<b>20</b>	<b>4</b>	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

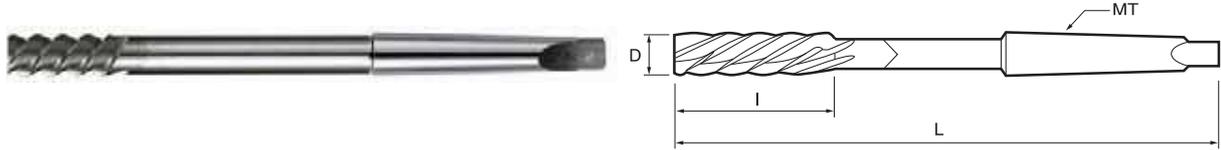
Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

# Carbide Super Helical Reamer-60° MT

\_ 초경 슈퍼 헤리컬리머 - 60° MT



■ 제품사양

- Carbide, JIS
- J5(~+0.005), ~ HRc 50
- 절삭속도, 가공면 향사
- All solid, Top solid
- 60° 좌비틀리머

■ Application

- Carbide, JIS
- J5(~+0.005), LH60°
- All and Top Solid, ~ HRc 50
- Much Higher Feed Rate
- Excellent Finish Surface

※ 관련 페이지

p28, 슈퍼 헤리컬리머 - 60° MT

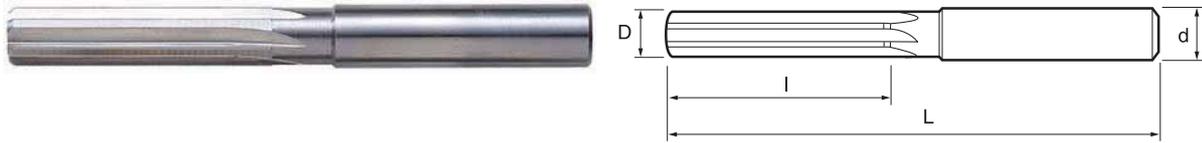
Code No.	D	L	l	MT	Memo
GEM JC460120M	12 (B)	182	34	MT1 (65)	
<b>GEM JC460130M</b>	<b>13 (B)</b>	<b>182</b>	<b>34</b>		
GEM JC460140M	14 (B)	189	37		
GEM JC460150M	15 (B)	204	40	MT2 (80)	
<b>GEM JC460160M</b>	<b>16 (B)</b>	<b>204</b>	<b>42</b>		
GEM JC460170M	17 (B)	204	42		
GEM JC460180M	18 (B)	214	46		
GEM JC460190M	19 (B)	214	46		
<b>GEM JC460200M</b>	<b>20 (B)</b>	<b>214</b>	<b>50</b>		
GEM JC460250M	25 (B)	250	56	MT3 (100)	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Hand Reamer

## \_ 초경 핸드리머



### ■ 제품사양

- Carbide, H7
- Helix 0°, ST Shank
- 관통 & 막힌구멍용
- 울초경, ~ HRC 50

### ■ Application

- Carbide, H7 Tolerance
- Straight Flutes & ST Shank
- Suitable For Through & Blind Holes
- All Solid, ~ HRC 50

※ 관련 페이지  
 p8~9, 핸드리머  
 p45, 초경 날 톱 핸드리머  
 p 51, 롱 핸드리머

Code No.	D	d	L	I	Memo
GEM C100008~9	0.8~0.9M	D	43	8	
GEM C100010~4	1.0~1.4M	D	43	8	
GEM C100015	1.5M	D	43	8	
GEM C100016~9	1.6~1.9M	D	43	8	
GEM C100020	2	3	62	15	
GEM C100030	3	4	62	25	
<b>GEM C100040</b>	<b>4</b>	<b>4</b>	<b>62</b>	<b>28</b>	
GEM C100050	5	6	79	31	
<b>GEM C100060</b>	<b>6</b>	<b>6</b>	<b>79</b>	<b>31</b>	
GEM C100070	7	8	79	35	
<b>GEM C100080</b>	<b>8</b>	<b>8</b>	<b>79</b>	<b>35</b>	
GEM C100090	9	10	106	50	
<b>GEM C100100</b>	<b>10</b>	<b>10</b>	<b>106</b>	<b>50</b>	
GEM C100110	11	12	106	50	
<b>GEM C100120</b>	<b>12</b>	<b>12</b>	<b>106</b>	<b>50</b>	
GEM C100130	13	12	106	50	
GEM C100140	14	12	106	50	
GEM C100150	15	16	106	50	
<b>GEM C100160</b>	<b>16</b>	<b>16</b>	<b>106</b>	<b>50</b>	
GEM C100200	20	20	106	50	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

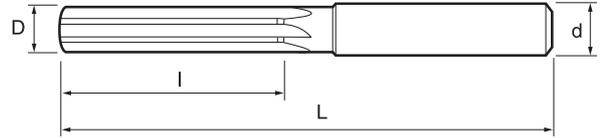
Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

# Carbide Minus Reamer

## \_ 초경 마이너스리머



### ■ 제품사양

- Carbide, 0 ~ -0.01 공차
- Helix 0°, ST Shank
- 관통 & 막힌구멍용
- 정밀 홀 가공 ~ HRC 50용
- 울초경

### ■ Application

- Carbide, 0 ~ -0.01 Tolerance
- Straight Flutes & ST Shank
- Suitable For Through & Blind Holes
- Match the Precision Hole.
- All Solid, ~ HRC 50

※ 관련 페이지  
p39, 초경 제로 리머

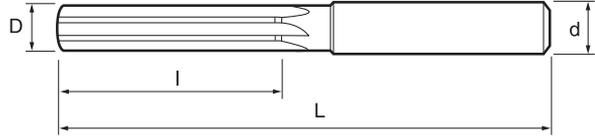
Code No.	D	d	L	l	Memo
GEM CM100030	3	4	62	25	
GEM CM100040	4	4	62	28	
GEM CM100050	5	6	79	31	
<b>GEM CM100060</b>	<b>6</b>	<b>6</b>	<b>79</b>	<b>31</b>	
<b>GEM CM100080</b>	<b>8</b>	<b>8</b>	<b>79</b>	<b>35</b>	
<b>GEM CM100100</b>	<b>10</b>	<b>10</b>	<b>106</b>	<b>50</b>	
<b>GEM CM100120</b>	<b>12</b>	<b>12</b>	<b>106</b>	<b>50</b>	
GEM CM100140	14	12	106	50	
GEM CM100160	16	16	106	50	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Zero Reamer

## 초경 제로리머



### 제품사양

- Carbide, 0~ +0,001 공차
- Helix 0°, ST Shank
- 관통 & 막힌구멍용
- 정밀 홀 가공용
- 울초경, ~ HRC 50

### Application

- Carbide, 0~ +0,001 Tolerance
- Straight Flutes & ST Shank
- Suitable For Through & Blind Holes
- Match the Precision Hole,
- All Solid, ~ HRC 50

※ 관련 페이지  
p38, 초경 마이너스 리머

Code No.	D	d	L	I	Memo
GEM CZ100030	3	4	62	25	
GEM CZ100040	4	4	62	28	
GEM CZ100050	5	6	79	31	
GEM CZ100060	6	6	79	31	
GEM CZ100080	8	8	79	35	
GEM CZ100100	10	10	106	50	
GEM CZ100120	12	12	106	50	
GEM CZ100140	14	12	106	50	
GEM CZ100160	16	16	106	50	

정치수 외 가격은 별도

특수품은 주문에 의해서 생산합니다.

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

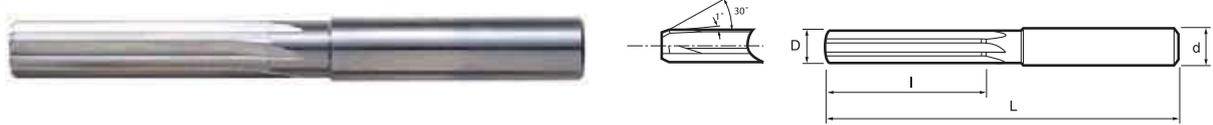
Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

# Carbide Reamer For Al & Cast

\_ 초경 리머 [알루미늄 & 주물용]



■ 제품사양

- Carbide, H7
- 알루미늄 & 주물에 뛰어난 가공성
- 2단 챔퍼부
- Helix 0°, ST Shank
- 관통 구멍용
- 올초경

■ Application

- Carbide, H7 Tolerance
- For Aluminum & Cast Iron
- Double Chamfer
- Straight Flutes & ST Shank
- Suitable For Through Holes
- All Solid

※ 관련 페이지  
p37, 초경 핸드리머  
p50, PCD 리머

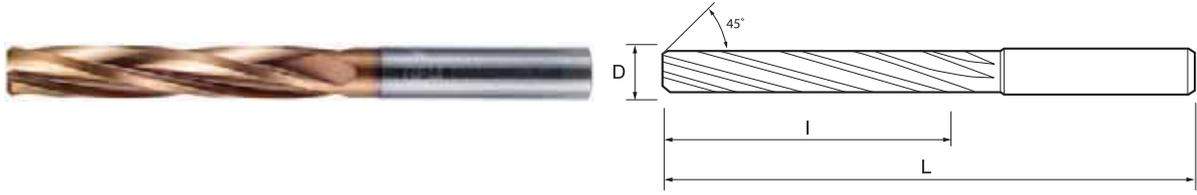
Code No.	D	d	L	l	Memo
GEM CAC100030	3	4	62	25	
GEM CAC100040	4	4	62	28	
GEM CAC100050	5	6	79	31	
GEM CAC100060	6	6	79	31	
GEM CAC100070	7	8	79	35	
GEM CAC100080	8	8	79	35	
GEM CAC100090	9	10	106	50	
GEM CAC100100	10	10	106	50	
GEM CAC100110	11	12	106	50	
GEM CAC100120	12	12	106	50	
GEM CAC100130	13	12	106	50	
GEM CAC100140	14	12	106	50	
GEM CAC100160	16	16	106	50	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Speed Reamer- RH 15°

\_ 초경 고경도용 스피드리머 - RH 15°

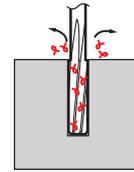


■ 제품사양

- Carbide, H7, 알파(α)코팅
- 고경도용 리머, ~HRC 62
- 울초경, 고속가공 가능
- 우 비틀림 15° & ST Shank
- 관통 & 막힌 구멍용

■ Application

- Carbide, H7 Tolerance, α Coating
- For Difficult to cut, ~ HRC 62
- RH Helical 15° & ST Shank
- Suitable For Through & Blind Holes
- Much higher Feed Rate



※ 관련 페이지

p43, 초경 스파이럴 밀 리머

Code No.	D	d	L	l	Flutes	Memo
GEM TD415030	3	4	63	30	4	
GEM TD415040	4	4	63	30	4	
GEM TD415050	5	6	81	35	4	
GEM TD415060	6	6	81	35	4	
GEM TD415070	7	8	108	50	4	
GEM TD415080	8	8	108	50	4	
GEM TD415090	9	10	108	50	4	
GEM TD415100	10	10	108	50	4	
GEM TD415110	11	12	108	50	4	
GEM TD415120	12	12	108	50	4	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

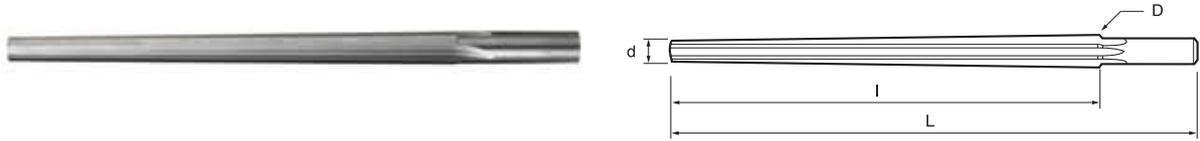
Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

# Carbide Taper Pin Reamer

## \_ 초경 테이퍼 핀 리머



### ■ 제품사양

- Carbide, JIS
- 1/50 Taper, ~ HRc 50
- 테이퍼 홀 가공, 4F
- MT Shank, Helical Type 제작가능

### ■ Application

- Carbide, JIS, ~HRc 50
- 1/50 Taper For Taper Pin
- For Through Taper Hole
- MT Shank Available

※ 관련 페이지  
p14, 핸드 테이퍼 핀 리머

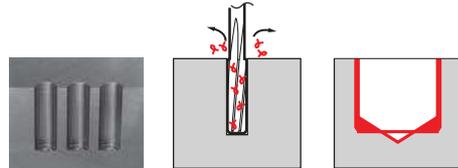
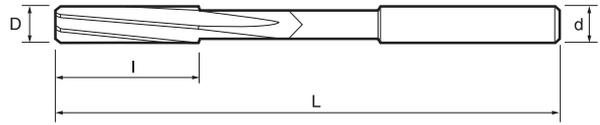
Code No.	Pr No.	L	I	d	D	Memo
GEM C300030	3M	88	63	2.9	4.16	
GEM C300040	4M	102	75	3.9	5.4	
GEM C300050	5M	115	87	4.9	6.64	
<b>GEM C300060</b>	<b>6M</b>	<b>130</b>	<b>99</b>	<b>5.9</b>	<b>7.88</b>	
GEM C300070	7M	152	119	6.9	9.28	
<b>GEM C300080</b>	<b>8M</b>	<b>178</b>	<b>141</b>	<b>7.9</b>	<b>10.72</b>	
GEM C300090	9M	195	156	8.9	12.02	
<b>GEM C300100</b>	<b>10M</b>	<b>205</b>	<b>163</b>	<b>9.9</b>	<b>13.16</b>	
GEM C300110	11M(B)	220	177	10.9	14.44	
GEM C300120	12M(B)	230	185	11.9	15.6	
GEM C300130	13M(B)	240	194	12.86	16.74	
GEM C300160	16M(B)	290	234	15.84	20.52	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Spiral Mill Reamer- RH 7°

\_ 초경 우비틀림 스파이럴 밀 리머 - RH 7°



HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

## ■ 제품사양

- Carbide, DIN, H7
- 바닥날에 의한 힘 가공 방지
- 우 비틀림 Helix 7° ST Shank
- 관통 & 막힌 구멍용
- 울초경, 탑 솔리드, ~HRC 50

## ■ Application

- Carbide, DIN, H7 Tolerance
- End Cutting Teeth For Alignment of Hole
- RH Helical 7° & ST Shank
- Suitable For Through & Blind Holes
- All and Top Solid, ~ HRC 50

※ 관련 페이지

p41, 초경 고경도용 스피드리머  
p47, 초경 날 팁 황삭용 엔드 리머

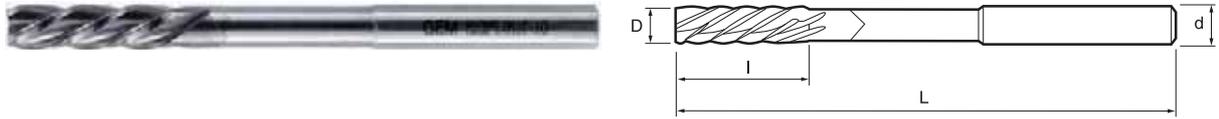
Code No.	D	d	L	l	Flutes	Memo
<b>GEM MD407060</b>	<b>6</b>	<b>6</b>	<b>79</b>	<b>23</b>	<b>6</b>	
GEM MD407070	7 (B)	8	109	31	6	
<b>GEM MD407080</b>	<b>8 (B)</b>	<b>8</b>	<b>117</b>	<b>33</b>	<b>6</b>	
GEM MD407090	9 (B)	10	125	36	6	
<b>GEM MD407100</b>	<b>10 (B)</b>	<b>10</b>	<b>133</b>	<b>36</b>	<b>6</b>	
GEM MD407110	11 (B)	12	136	36	6	
<b>GEM MD407120</b>	<b>12 (B)</b>	<b>12</b>	<b>151</b>	<b>36</b>	<b>6</b>	
GEM MD407130	13 (B)	12	151	37	6	
GEM MD407140	14 (B)	16	165	37	6	
<b>GEM MD407160</b>	<b>16 (B)</b>	<b>16</b>	<b>180</b>	<b>37</b>	<b>6</b>	
GEM MD407200	20 (B)	20	200	37	6	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Helical Mill Reamer- LH 30°

\_ 초경 헤리컬 밀 리머 - LH 30°



■ 제품사양

- Carbide, DIN, H7
- 바닥날에 의한 휨 가공 방지
- 좌 비틀림 Helix 30°, ST Shank
- 관통 & 막힌 구멍용
- 올초경, 탑 솔리드, ~HRC 50

■ Application

- Carbide, DIN, H7 Tolerance
- End Cutting Teeth For Alignment of Hole
- LH Helical 30° & ST Shank
- Suitable For Through & Blind Holes
- All and Top Solid, ~ HRC 50

※ 관련 페이지  
p47, 초경 날 팁 황삭용 엔드 리머

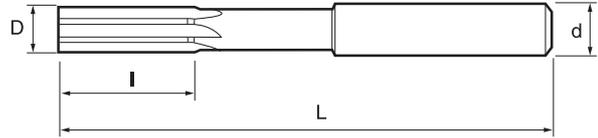
Code No.	D	d	L	l	Flutes	Memo
GEM MC430060	6	6	79	23	4	
GEM MC430070	7 (B)	8	109	31	4	
<b>GEM MC430080</b>	<b>8 (B)</b>	<b>8</b>	<b>117</b>	<b>30</b>	<b>4</b>	
GEM MC430090	9 (B)	10	125	30	4	
<b>GEM MC430100</b>	<b>10 (B)</b>	<b>10</b>	<b>133</b>	<b>34</b>	<b>4</b>	
GEM MC430110	11 (B)	12	136	34	4	
<b>GEM MC430120</b>	<b>12 (B)</b>	<b>12</b>	<b>151</b>	<b>34</b>	<b>4</b>	
GEM MC430130	13 (B)	12	151	34	4	
GEM MC430140	14 (B)	16	165	36	4	
<b>GEM MC430160</b>	<b>16 (B)</b>	<b>16</b>	<b>180</b>	<b>37</b>	<b>4</b>	
GEM MC4301200	20 (B)	20	200	37	4	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Tip Hand Reamer

## \_ 초경 날 팁 핸드리머



### ■ 제품사양

- Carbide, H7
- Helix 0°, ST Shank, ~HRC 50
- 날 팁 용접형, 저가용
- 관통 & 막힌홀 작업에 적합

### ■ Application

- Carbide, H7 Tolerance
- Straight Flutes & ST Shank
- Tip Blazed, Low Price, ~ HRC 50
- Suitable For Blind & Through Holes

※ 관련 페이지

p8~9, HSS 핸드리머

p37, 초경 핸드리머

p57, 초경 날 팁 롱 핸드리머

Code No.	D	d	L	l	Memo
GEM B100130	13 (B)	12	170	50	
<b>GEM B100140</b>	<b>14 (B)</b>	<b>16</b>	<b>200</b>	<b>50</b>	
GEM B100150	15 (B)	16	200	50	
<b>GEM B100160</b>	<b>16 (B)</b>	<b>16</b>	<b>200</b>	<b>50</b>	
GEM B100170	17 (B)	16	200	50	
GEM B100180	18 (B)	20	200	50	
GEM B100190	19 (B)	20	200	50	
<b>GEM B100200</b>	<b>20 (B)</b>	<b>20</b>	<b>200</b>	<b>50</b>	
GEM B100210	21 (B)	20	240	50	
<b>GEM B100220</b>	<b>22 (B)</b>	<b>20</b>	<b>240</b>	<b>50</b>	
GEM B100230	23 (B)	25	240	50	
GEM B100240	24 (B)	25	240	50	
<b>GEM B100250</b>	<b>25 (B)</b>	<b>25</b>	<b>240</b>	<b>50</b>	
GEM B100300	30 (B)	32	300	50	
<b>GEM B100320</b>	<b>32 (B)</b>	<b>32</b>	<b>300</b>	<b>50</b>	
GEM B100350	35 (B)	32	330	50	
<b>GEM B100400</b>	<b>40 (B)</b>	<b>42</b>	<b>330</b>	<b>50</b>	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

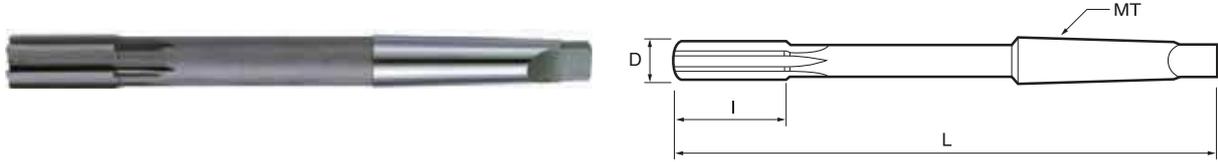
Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

# Carbide Tip Machine Reamer

## \_ 초경 날 팁 머신리머



### ■ 제품사양

- Carbide, H7
- Helix 0°, MT Shank
- 날 팁 용접형, 저가용
- 관통 & 막힌홀 작업에 적합

### ■ Application

- Carbide, H7 Tolerance
- Straight Flutes & MT Shank
- Tip Blazed, Low Price, ~ HRC 50
- Suitable For Blind & Through Holes

※ 관련 페이지  
p12, HSS 머신리머  
p57, 초경 날 팁 롱 머신리머

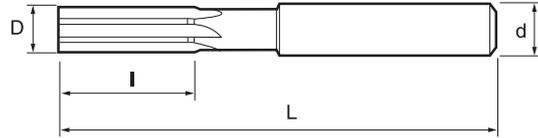
Code No.	D	I	L	MT	Memo
GEM B200130	13 (B)	50	180	MT1 (65)	
GEM B200140	14 (B)	50	220		
GEM B200150	15 (B)	50	220	MT2 (80)	
<b>GEM B200160</b>	<b>16 (B)</b>	<b>50</b>	<b>220</b>		
GEM B200170	17 (B)	50	220		
GEM B200180	18 (B)	50	230		
GEM B200190	19 (B)	50	230		
<b>GEM B200200</b>	<b>20 (B)</b>	<b>50</b>	<b>230</b>		
GEM B200210	21 (B)	50	250		
<b>GEM B200220</b>	<b>22 (B)</b>	<b>50</b>	<b>250</b>		
GEM B200230	23 (B)	50	250		
GEM B200240	24 (B)	50	270	MT3 (100)	
<b>GEM B200250</b>	<b>25 (B)</b>	<b>50</b>	<b>270</b>		
<b>GEM B200300</b>	<b>30 (B)</b>	<b>50</b>	<b>300</b>		
<b>GEM B200320</b>	<b>32 (B)</b>	<b>50</b>	<b>300</b>		
GEM B200350	35 (B)	50	330	MT4 (125)	
<b>GEM B200400</b>	<b>40 (B)</b>	<b>50</b>	<b>330</b>		

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Carbide Tip Mill Reamer For Rough Hole

\_ 초경 날 팁 황삭용 엔드 리머



■ 제품사양

- Carbide, H7
- 바닥날에 의한 휨 가공 방지
- Helix 0°, ST Shank, 황삭용 리머
- 관통 & 막힌 구멍용
- ~HRC 50, 측면가공 가능

■ Application

- Carbide, H7 Tolerance
- End Cutting Teeth For Alignment of Hole
- ST Flute & ST Shank, ~ HRC 50
- For Roughing Hole, Slotting

※ 관련 페이지

p43, 초경 스파이럴 밀 리머  
p44, 초경 헤리컬 밀 리머

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

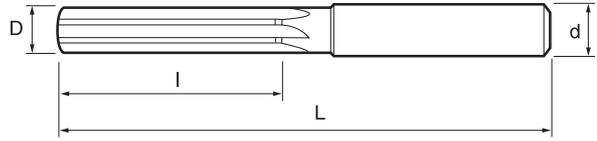
Code No.	D	d	L	I	Memo
<b>GEM ER100137</b>	<b>13.7 (B)</b>	<b>16</b>	<b>160</b>	<b>50</b>	
GEM ER100147	14.7 (B)	16	160	50	
<b>GEM ER100157</b>	<b>15.7 (B)</b>	<b>16</b>	<b>160</b>	<b>50</b>	
GEM ER100167	16.7 (B)	16	160	50	
GEM ER100177	17.7 (B)	20	180	50	
GEM ER100187	18.7 (B)	20	180	50	
<b>GEM ER100197</b>	<b>19.7 (B)</b>	<b>20</b>	<b>180</b>	<b>50</b>	
GEM ER100207	20.7 (B)	25	200	50	
<b>GEM ER100217</b>	<b>21.7 (B)</b>	<b>25</b>	<b>200</b>	<b>50</b>	
GEM ER100237	23.7 (B)	25	200	50	
<b>GEM ER100247</b>	<b>24.7 (B)</b>	<b>25</b>	<b>200</b>	<b>50</b>	
GEM ER100277	27.7 (B)	32	250	50	
<b>GEM ER100297</b>	<b>29.7 (B)</b>	<b>32</b>	<b>250</b>	<b>50</b>	
GEM ER100317	31.7 (B)	32	250	50	
GEM ER100347	34.7 (B)	32	250	50	
GEM ER100397	39.7 (B)	32	250	50	
GEM ER100417	41.7 (B)	42	300	50	
GEM ER100447	44.7 (B)	42	300	50	
GEM ER100497	49.7 (B)	42	300	50	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Cermet Reamer (SF, ST)

## \_ 써메트 리머



### ■ 제품사양

- Cermet, H7
- Helix 0° ST Shank
- 관통 & 막힌구멍용
- 울 써메트, 우수한 조도면

### ■ Application

- Cermet, H7 Tolerance
- Straight Flutes & ST Shank
- Suitable For through & Blind Holes
- All Cermet
- Good Reaming Result

※ 관련 페이지  
p49, 날 써메트 리머

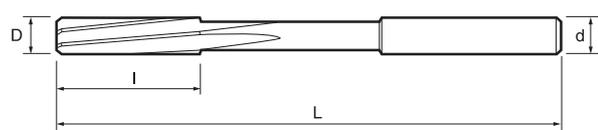
Code No.	D	d	L	I	Memo
GEM CER100060	6	6	82	30	
GEM CER100070	7	8	112	50	
GEM CER100080	8	8	112	50	
GEM CER100090	9	10	112	50	
GEM CER100100	10	10	112	50	
GEM CER100110	11	12	112	50	
GEM CER100120	12	12	112	50	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Cermet Spiral Reamer (LH7°, ST)

## \_ 써메트 스파이럴 리머



### ■ 제품사양

- Cermet, H7
- Helix LH7° ST Shank
- 관통 & 막힌구멍용
- 울 써메트, 우수한 조도면

### ■ Application

- Cermet, H7 Tolerance
- LH7° & ST Shank
- Suitable For through & Blind Holes
- All Cermet, Good Reaming Result

※ 관련 페이지  
p49, 날 써메트 리머

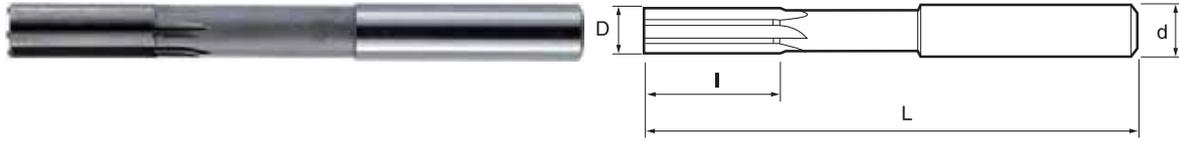
Code No.	D	d	L	I	Memo
GEM CER 407060	6	6	82	30	
GEM CER 407070	7	8	112	50	
GEM CER 407080	8	8	112	50	
GEM CER 407090	9	10	112	50	
GEM CER 407100	10	10	112	50	
GEM CER 407110	11	12	112	50	
GEM CER 407120	12	12	112	50	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# Cermet Tip Hand Reamer(SF, ST)

\_ 날 써메트 리머



■ 제품사양

- Cermet, H7
- Helix 0° ST Shank
- 날 팁 용접형, 우수한 조도면
- 관통 & 막힌홀 작업에 적합

■ Application

- Cermet, H7 Tolerance
- Straight Flutes & ST Shank
- Tip Blazed, Good Reaming Result
- Suitable For Blind & Through Holes

※ 관련 페이지  
p48, 써메트 리머

Code No.	D	d	L	I	Memo
GEM CERB100130	13	12	160	40	
<b>GEM CERB100140</b>	<b>14</b>	<b>16</b>	<b>160</b>	<b>40</b>	
GEM CERB100150	15	16	180	40	
<b>GEM CERB100160</b>	<b>16</b>	<b>16</b>	<b>180</b>	<b>40</b>	
GEM CERB100170	17	16	180	40	
GEM CERB100180	18	20	200	40	
GEM CERB100190	19	20	200	40	
<b>GEM CERB100200</b>	<b>20</b>	<b>20</b>	<b>200</b>	<b>40</b>	
GEM CERB100210	21	20	220	40	
GEM CERB100220	22	20	220	40	
GEM CERB100230	23	25	220	40	
GEM CERB100240	24	25	220	40	
<b>GEM CERB100250</b>	<b>25</b>	<b>25</b>	<b>240</b>	<b>40</b>	
GEM CERB100300	30	32	250	40	
GEM CERB100320	32	32	250	40	
GEM CERB100350	35	32	250	40	
GEM CERB100400	40	42	250	40	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

HSS Reamers  
8P~30P

Carbide Reamers  
31P~50P

Long Reamers  
51P~57P

Counter Bores  
58P~63P

HSS Counter Sinks  
64P~69P

Carbide Counter Sinks  
70P~74P

Cutters  
75P~78P

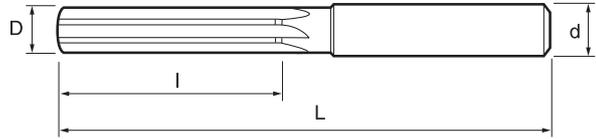
Drills  
79P~97P

Others  
98P~100P

Technical Data  
101P~104P

# PCD Reamer (ST)

## \_ PCD 리머



### ■ 제품사양

- PCD, H7
- Helix 0° ST Shank
- 관통 & 막힌구멍용
- AL 가공에 우수한 조도면

### ■ Application

- PCD, H7 Tolerance
- Straight Flutes & ST Shank
- Suitable For through & Blind Holes
- Good surface for AL

※ 관련 페이지

p40, 초경리머 (알루미늄 주물용)

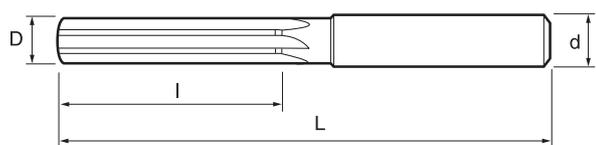
Code No.	D	d	L	I	Memo
GEM PCD100060	6	6	80	28	
GEM PCD100070	7	8	80	28	
GEM PCD100080	8	8	80	28	
GEM PCD100090	9	10	80	28	
GEM PCD100100	10	10	80	28	
GEM PCD100110	11	12	80	28	
GEM PCD100120	12	12	80	28	
GEM PCD100130	13	12	80	28	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.

# CBN Reamer (ST)

## \_ CBN 리머



### ■ 제품사양

- CBN, H7
- Helix 0° ST Shank
- 관통 & 막힌구멍용
- 고경도 소재가공에 우수

### ■ Application

- CBN, H7 Tolerance
- Straight Flutes & ST Shank
- Suitable For through & Blind Holes
- Good for Hardness workpiece

※ 관련 페이지

p48, 세메트 리머

Code No.	D	d	L	I	Memo
GEM CBN100060	6	6	80	28	
GEM CBN100070	7	8	80	28	
GEM CBN100080	8	8	80	28	
GEM CBN100090	9	10	80	28	
GEM CBN100100	10	10	80	28	
GEM CBN100110	11	12	80	28	
GEM CBN100120	12	12	80	28	
GEM CBN100130	13	12	80	28	

■ 정치수 외 가격은 별도

■ 특수품은 주문에 의해서 생산합니다.