

고성능
NEW 플랫 드릴

KDZ

독자적인 신코팅으로
플랫 드릴을 쇄신
「긴수명」「고정도」「안정가공」의 실현으로



스폿페이싱 가공 등 다양한 용도에서 과제를 솔루션
고성능과 경쟁력 있는 가격으로, 플랫 드릴도 K-series로



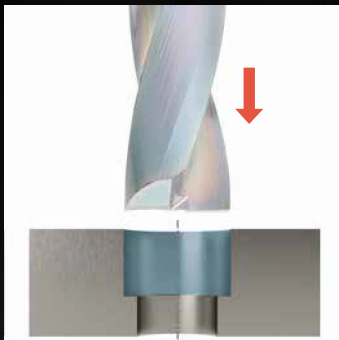
고성능 NEW 플랫 드릴

KDZ

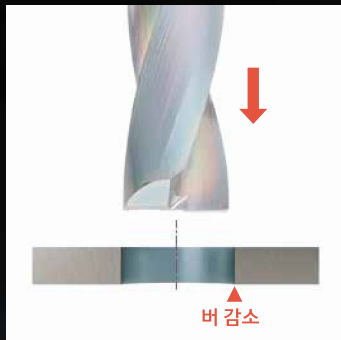
Re: Innovation

오로라로 빛나는 고성능 플랫 드릴

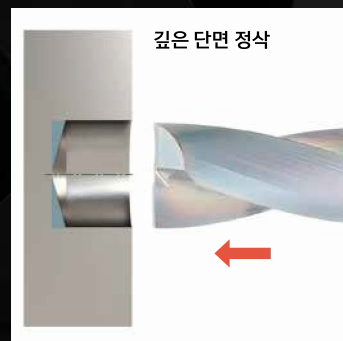
1 다양한 가공에 대응



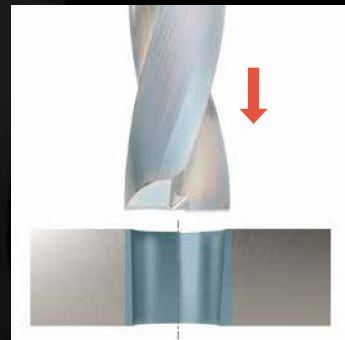
스폿페이싱



박판의 드릴가공



자동반 · 선반가공



홀의 교정

가공용도에 맞게 선택하는 2가지 타입

안정성 중시

KDZ

스탠다드

인선강화



숫

총 111 규격
가공경 $\phi 1.0 \sim \phi 12.0$

레귤러

총 91 규격
가공경 $\phi 3.0 \sim \phi 12.0$

다양한 가공에 안정적으로 대응하는
스탠다드 타입

- 코너부 플랫 랜드 사양
- 특수 홈 형상으로 우수한 칩 배출성
- MEGACOAT NANO EX로 긴수명

원통면 · 곡면에서의 홀 가공 등, 선단각 있는 드릴로는
가공이 곤란한 워크 형상에서도 가공정밀도가 안정
(원통면 · 곡면에서는 KDZ-HP를 추천합니다.)

절삭성 중시

KDZ-HP

고정도가공

저저항



2023년1월
발매 예정

숫

총 127 규격
가공경 $\phi 1.0 \sim \phi 20.0$

레귤러

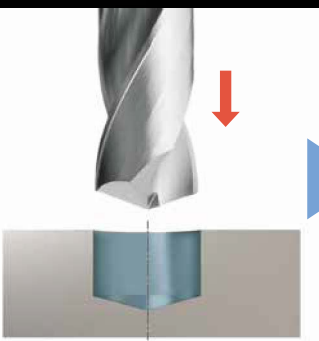
총 91 규격
가공경 $\phi 3.0 \sim \phi 12.0$

특수 씨닝 형상으로 고정도
안정가공을 실현

- 원활한 절삭성으로 가공 정밀도 향상
- MEGACOAT NANO EX로 긴수명

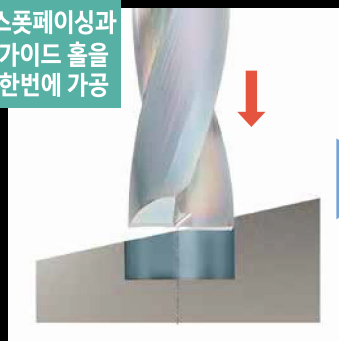


바닥면 플랫
동시 가공

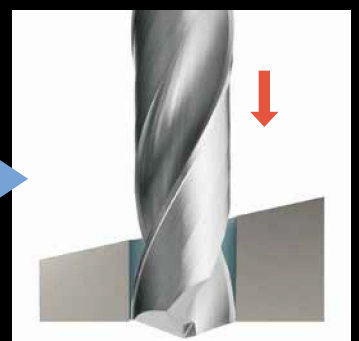


드릴 가공 후의 바닥면 정삭

스폿페이싱과
가이드 홀을
한번에 가공



경사면에서의 스폿페이싱 · 가이드 홀 가공





드릴에 요구되는 성능을 겸비한
독자적인 코팅을 개발



2 내마모성과 내결손성을 고차원으로 양립

특수 나노 적층×다층 적층

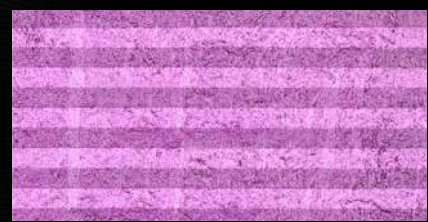
Point

1. 막의 적층 주기를 적정화하여 인성을 향상
2. 윤활성·내용착성이 우수한 Cr량을 늘리고
마모, 치핑을 억제

나노 적층화

AlCrN계 코팅

우수한 윤활성, 내용착성



나노 적층화

TiAlN계 코팅

우수한 내마모성

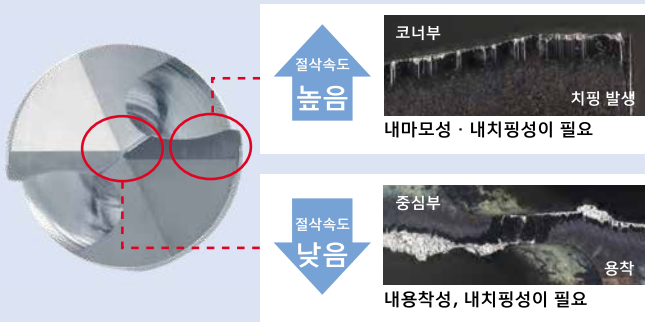


막

소재

일반적인 드릴의 문제

외주측과 중심측 주속의 차이로 인해
긴수명화를 위해서는 상반된 성능이 필요



홀 가공시 절삭날 상태 비교 (당사비교)

	KDZ(MEGACOAT NANO EX)	경쟁사 A
코너부		
중심부		

절삭조건 : Vc=80m/min, f =0.06mm/rev
가공경 ø3, 가공 깊이 : 6mm Wet(외부급유) 피삭재 : S50C

KDZ는 독자적인 코팅 MEGACOAT® NANO EX로

내마모성

내용착성

내치핑성

를 고차원으로 실현하여 고정도의 드릴 가공이 가능

3 높은 가공성능을 실현하는 독자적인 형상

KDZ

안정성 증시

큰 칩 포켓
우수한 칩 배출성



측면



절삭면

내결손성을 향상하는 플랫 랜드 사양

KDZ-HP

절삭성 증시

특수 씨닝 사양으로
칩 분단을 촉진하고
배출성을 향상
인선 중심부에서의 부하 감소



측면

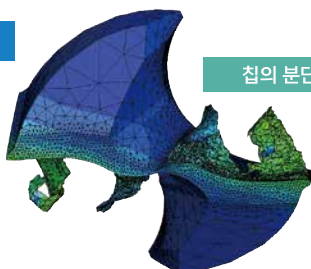


절삭면

랜드가 없이 인선 선단부터 절삭면을 형성
절삭성이 향상되어 고정도 · 안정가공이 가능 (~ø12)

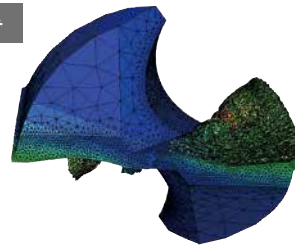
칩 생성 시뮬레이션 비교 (이미지) (당사비교)

KDZ-HP

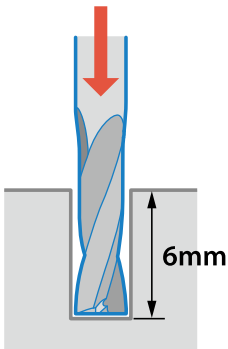
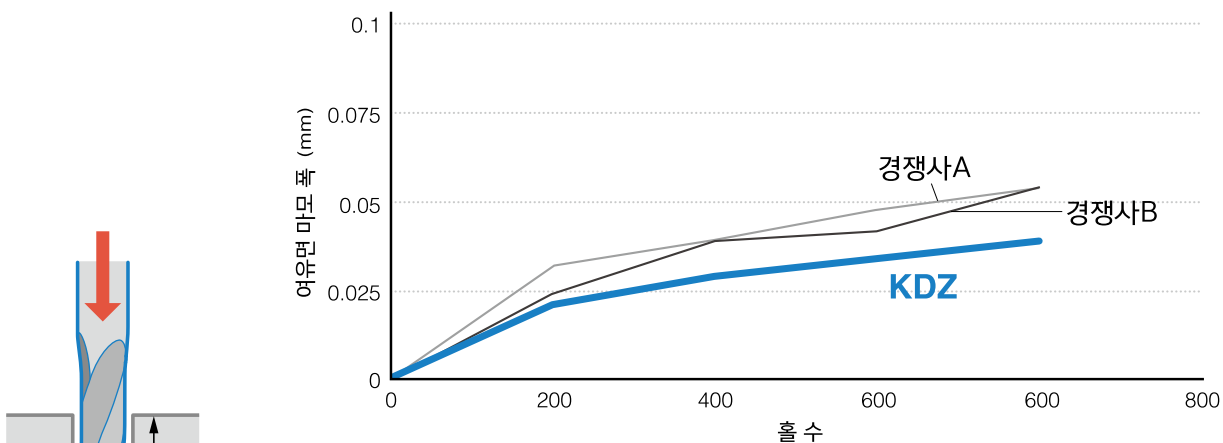


칩의 분단을 촉진

기존품



내마모성 비교



인선상태



절삭조건 : Vc=80m/min, f = 0.06mm/rev, 가공경 ø3, 가공 깊이 : 6mm Wet(외부급유) 피삭재 : S50C

**KDZ는 마모량을 억제. 용착이나 치핑도 적고
높은 내마모성 · 내용착성 · 내치핑성을 발휘**

가공사례

자동차 부품 S25C

n = 6,000 min⁻¹ (Vc = 55 m/min)
Vf = 115 mm/min (f = 0.02 mm/rev)
가공 깊이 3 mm Wet (외부급유) KDZ0300X3.0S060N

가공 개수

KDZ

600 개 / 자루

경쟁사C

600 개 / 자루



인선상태

KDZ



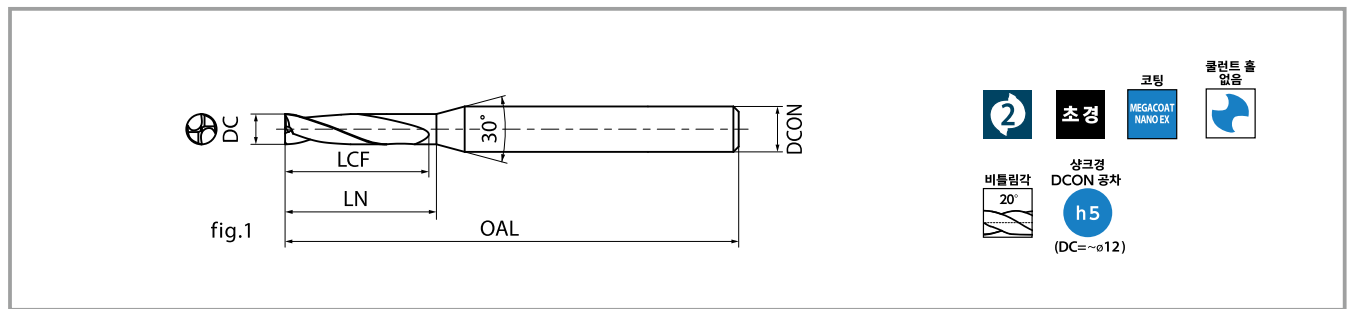
경쟁사C



KDZ는 우수한 내마모성과 안정가공을 실현

(고객평가)

KDZ 슛

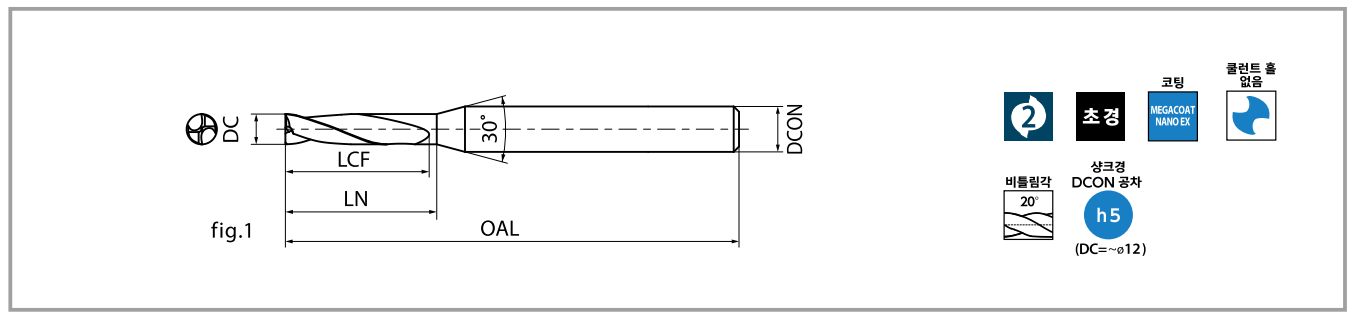


규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0100X1.5S040N	●	1.0	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	3	4	4	50	fig.1
KDZ0110X1.5S040N	●	1.1	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	3.5	4.5	4	50	fig.1
KDZ0120X1.5S040N	●	1.2	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	4	5	4	50	fig.1
KDZ0130X1.5S040N	●	1.3	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	4.5	5.5	4	50	fig.1
KDZ0140X1.5S040N	●	1.4	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	5	6	4	50	fig.1
KDZ0150X1.5S040N	●	1.5	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	5.5	6.5	4	50	fig.1
KDZ0160X1.5S040N	●	1.6	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	6	7	4	50	fig.1
KDZ0170X1.5S040N	●	1.7	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	6.5	7.5	4	50	fig.1
KDZ0180X1.5S040N	●	1.8	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	7	8	4	50	fig.1
KDZ0190X1.5S040N	●	1.9	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	7.5	8.5	4	50	fig.1
KDZ0200X1.5S040N	●	2.0	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	8	9	4	50	fig.1
KDZ0210X1.5S040N	●	2.1	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	8.5	9.5	4	50	fig.1
KDZ0220X1.5S040N	●	2.2	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	9	10	4	50	fig.1
KDZ0230X1.5S040N	●	2.3	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	9.5	10.5	4	50	fig.1
KDZ0240X1.5S040N	●	2.4	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	10	11	4	50	fig.1
KDZ0250X1.5S040N	●	2.5	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	10.5	11.5	4	50	fig.1
KDZ0260X1.5S040N	●	2.6	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	11	12	4	50	fig.1
KDZ0270X1.5S040N	●	2.7	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	11.5	12.5	4	50	fig.1
KDZ0280X1.5S040N	●	2.8	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	12	13	4	50	fig.1
KDZ0290X1.5S040N	●	2.9	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	12.5	13.5	4	50	fig.1
KDZ0300X1.5S060N	●	3.0	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	13	14	6	60	fig.1
KDZ0310X1.5S060N	●	3.1	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	13.5	14.5	6	60	fig.1
KDZ0320X1.5S060N	●	3.2	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	14	15	6	60	fig.1
KDZ0330X1.5S060N	●	3.3	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	14.5	15.5	6	60	fig.1
KDZ0340X1.5S060N	●	3.4	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	15	16	6	60	fig.1
KDZ0350X1.5S060N	●	3.5	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	15.5	16.5	6	60	fig.1
KDZ0360X1.5S060N	●	3.6	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	16	17	6	60	fig.1

가공 깊이는 1.5D(1.5 x DC)를 기준으로 삼으십시오.

규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0370X1.5S060N	●	3.7	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	12	13	6	60	fig.1
KDZ0380X1.5S060N	●	3.8						
KDZ0390X1.5S060N	●	3.9						
KDZ0400X1.5S060N	●	4.0						
KDZ0410X1.5S060N	●	4.1	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	13	14	6	60	fig.1
KDZ0420X1.5S060N	●	4.2						
KDZ0430X1.5S060N	●	4.3						
KDZ0440X1.5S060N	●	4.4	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	14	15	6	60	fig.1
KDZ0450X1.5S060N	●	4.5						
KDZ0460X1.5S060N	●	4.6						
KDZ0470X1.5S060N	●	4.7	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	15	16	6	60	fig.1
KDZ0480X1.5S060N	●	4.8						
KDZ0490X1.5S060N	●	4.9						
KDZ0500X1.5S060N	●	5.0	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	16	17	6	60	fig.1
KDZ0510X1.5S060N	●	5.1						
KDZ0520X1.5S060N	●	5.2						
KDZ0530X1.5S060N	●	5.3	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	17	18	6	60	fig.1
KDZ0540X1.5S060N	●	5.4						
KDZ0550X1.5S060N	●	5.5						
KDZ0560X1.5S060N	●	5.6	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	18	19	6	60	fig.1
KDZ0570X1.5S060N	●	5.7						
KDZ0580X1.5S060N	●	5.8						
KDZ0590X1.5S060N	●	5.9	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	19	20	6	60	fig.1

● : 표준재고



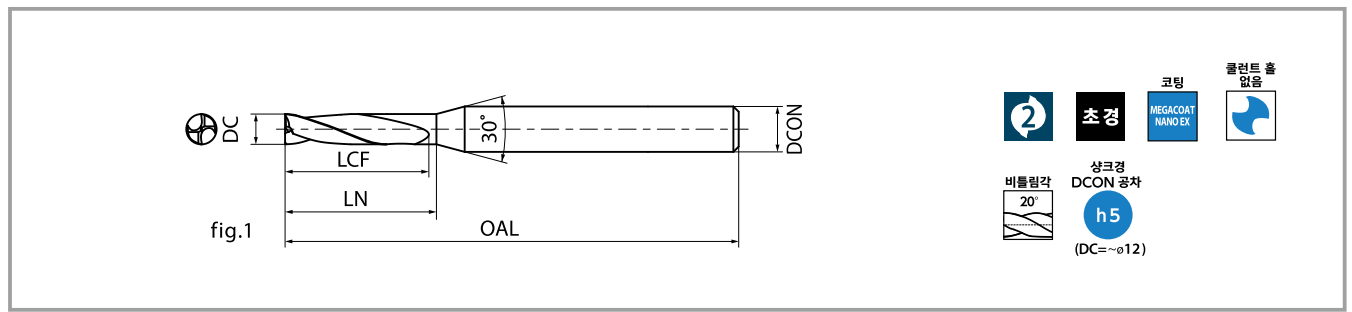
규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0600X1.5S060N	●	6.0	$0_{-0.012}$	19	21	6	60	fig.1
KDZ0610X1.5S080N	●	6.1	$0_{-0.015}$			8	70	
KDZ0620X1.5S080N	●	6.2						
KDZ0630X1.5S080N	●	6.3	$0_{-0.015}$	20	22	8	70	fig.1
KDZ0640X1.5S080N	●	6.4						
KDZ0650X1.5S080N	●	6.5						
KDZ0660X1.5S080N	●	6.6	$0_{-0.015}$	21	23	8	70	fig.1
KDZ0670X1.5S080N	●	6.7						
KDZ0680X1.5S080N	●	6.8						
KDZ0690X1.5S080N	●	6.9	$0_{-0.015}$	22	24	8	70	fig.1
KDZ0700X1.5S080N	●	7.0						
KDZ0710X1.5S080N	●	7.1						
KDZ0720X1.5S080N	●	7.2	$0_{-0.015}$	23	25	8	70	fig.1
KDZ0730X1.5S080N	●	7.3						
KDZ0740X1.5S080N	●	7.4						
KDZ0750X1.5S080N	●	7.5	$0_{-0.015}$	24	25	8	70	fig.1
KDZ0760X1.5S080N	●	7.6						
KDZ0770X1.5S080N	●	7.7						
KDZ0780X1.5S080N	●	7.8	$0_{-0.015}$	25	27	8	70	fig.1
KDZ0790X1.5S080N	●	7.9				10	80	
KDZ0800X1.5S080N	●	8.0	$0_{-0.015}$	26	28	10	80	fig.1
KDZ0810X1.5S100N	●	8.1						
KDZ0820X1.5S100N	●	8.2	$0_{-0.015}$	27	29	10	80	fig.1
KDZ0830X1.5S100N	●	8.3						
KDZ0840X1.5S100N	●	8.4						
KDZ0850X1.5S100N	●	8.5	$0_{-0.015}$	28	30	10	80	fig.1
KDZ0860X1.5S100N	●	8.6						
KDZ0870X1.5S100N	●	8.7						
KDZ0880X1.5S100N	●	8.8	$0_{-0.015}$			10	80	fig.1
KDZ0890X1.5S100N	●	8.9						
KDZ0900X1.5S100N	●	9.0	$0_{-0.015}$			10	80	fig.1
KDZ0910X1.5S100N	●	9.1						

가공 깊이는 1.5D(1.5 x DC)를 기준으로 삼으십시오.

규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0920X1.5S100N	●	9.2	$0_{-0.015}$	29	31	10	80	fig.1
KDZ0930X1.5S100N	●	9.3						
KDZ0940X1.5S100N	●	9.4						
KDZ0950X1.5S100N	●	9.5	$0_{-0.015}$	30	32	10	80	fig.1
KDZ0960X1.5S100N	●	9.6						
KDZ0970X1.5S100N	●	9.7						
KDZ0980X1.5S100N	●	9.8	$0_{-0.015}$	31	33	10	80	fig.1
KDZ0990X1.5S100N	●	9.9				12	100	
KDZ1000X1.5S100N	●	10.0						
KDZ1010X1.5S120N	●	10.1	$0_{-0.018}$	32	34	12	100	fig.1
KDZ1020X1.5S120N	●	10.2						
KDZ1030X1.5S120N	●	10.3						
KDZ1040X1.5S120N	●	10.4	$0_{-0.018}$	33	35	12	100	fig.1
KDZ1050X1.5S120N	●	10.5						
KDZ1060X1.5S120N	●	10.6						
KDZ1070X1.5S120N	●	10.7	$0_{-0.018}$	34	36	12	100	fig.1
KDZ1080X1.5S120N	●	10.8						
KDZ1090X1.5S120N	●	10.9						
KDZ1100X1.5S120N	●	11.0	$0_{-0.018}$	35	37	12	100	fig.1
KDZ1110X1.5S120N	●	11.1						
KDZ1120X1.5S120N	●	11.2						
KDZ1130X1.5S120N	●	11.3	$0_{-0.018}$	36	38	12	100	fig.1
KDZ1140X1.5S120N	●	11.4						
KDZ1150X1.5S120N	●	11.5						
KDZ1160X1.5S120N	●	11.6	$0_{-0.018}$	37	39	12	100	fig.1
KDZ1170X1.5S120N	●	11.7						
KDZ1180X1.5S120N	●	11.8						
KDZ1190X1.5S120N	●	11.9	$0_{-0.018}$			12	100	fig.1
KDZ1200X1.5S120N	●	12.0						

● : 표준재고

KDZ 레귤러



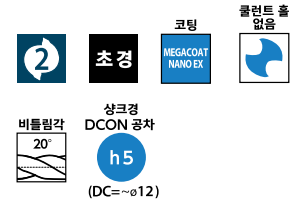
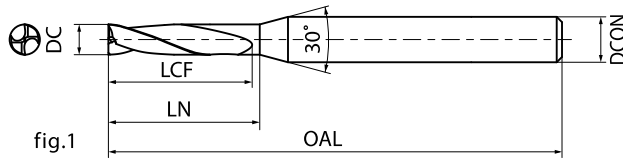
규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0300X3.0S060N	●	3.0	0 -0.010	14	15	6	60	fig.1
KDZ0310X3.0S060N	●	3.1	0 -0.012					
KDZ0320X3.0S060N	●	3.2	0 -0.012					
KDZ0330X3.0S060N	●	3.3	0 -0.012	15	16	6	60	fig.1
KDZ0340X3.0S060N	●	3.4	0 -0.012					
KDZ0350X3.0S060N	●	3.5	0 -0.012					
KDZ0360X3.0S060N	●	3.6	0 -0.012	17	18	6	60	fig.1
KDZ0370X3.0S060N	●	3.7						
KDZ0380X3.0S060N	●	3.8						
KDZ0390X3.0S060N	●	3.9						
KDZ0400X3.0S060N	●	4.0	0 -0.012	19	20	6	60	fig.1
KDZ0410X3.0S060N	●	4.1	0 -0.012					
KDZ0420X3.0S060N	●	4.2	0 -0.012					
KDZ0430X3.0S060N	●	4.3	0 -0.012	20	21	6	60	fig.1
KDZ0440X3.0S060N	●	4.4						
KDZ0450X3.0S060N	●	4.5						
KDZ0460X3.0S060N	●	4.6	0 -0.012	21	22	6	60	fig.1
KDZ0470X3.0S060N	●	4.7	0 -0.012					

가공 깊이는 2.0D(2.0 x DC)를 기준으로 삼으십시오.
2D이상의 깊이인 경우에는 스텝가공을 권장합니다.

규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0480X3.0S060N	●	4.8	0 -0.012	21	22	6	60	fig.1
KDZ0490X3.0S060N	●	4.9	0 -0.012					
KDZ0500X3.0S060N	●	5.0	0 -0.012					
KDZ0510X3.0S060N	●	5.1	0 -0.012	23	24	6	60	fig.1
KDZ0520X3.0S060N	●	5.2	0 -0.012					
KDZ0530X3.0S060N	●	5.3	0 -0.012					
KDZ0540X3.0S060N	●	5.4	0 -0.012	24	25	6	60	fig.1
KDZ0550X3.0S060N	●	5.5	0 -0.012					
KDZ0560X3.0S060N	●	5.6	0 -0.012					
KDZ0570X3.0S060N	●	5.7	0 -0.012	26	27	6	60	fig.1
KDZ0580X3.0S060N	●	5.8	0 -0.012					
KDZ0590X3.0S060N	●	5.9	0 -0.012					
KDZ0600X3.0S060N	●	6.0	0 -0.012	28	28	6	60	fig.1
KDZ0610X3.0S080N	●	6.1	0 -0.015					
KDZ0620X3.0S080N	●	6.2	0 -0.015					
KDZ0630X3.0S080N	●	6.3	0 -0.015					
KDZ0640X3.0S080N	●	6.4	0 -0.015					
KDZ0650X3.0S080N	●	6.5	0 -0.015	30	31	8	70	fig.1

● : 표준재고

KDZ 레귤러

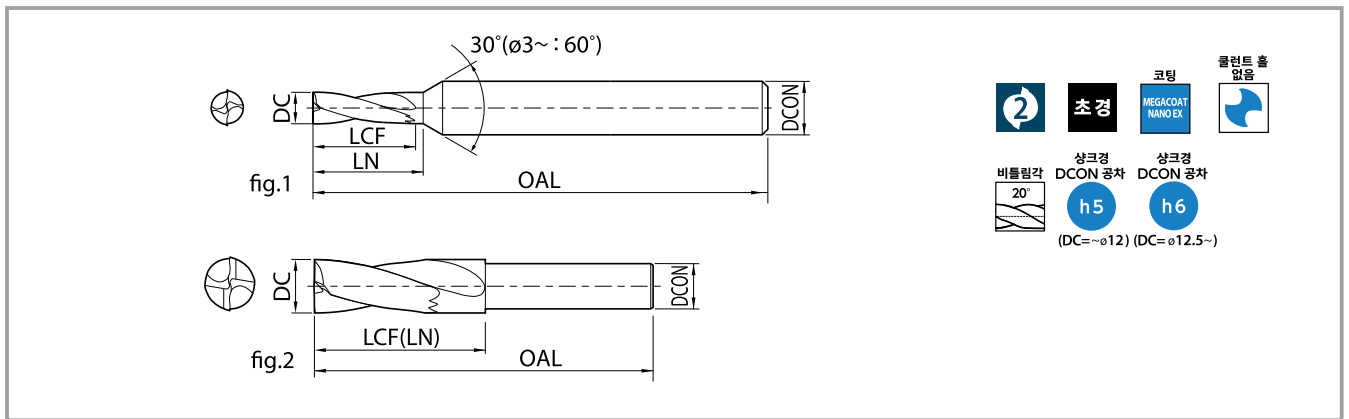


규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0660X3.0S080N	●	6.6	0 -0.015	30	31	8	70	fig.1
KDZ0670X3.0S080N	●	6.7						
KDZ0680X3.0S080N	●	6.8	0 -0.015	31	32	8	70	fig.1
KDZ0690X3.0S080N	●	6.9						
KDZ0700X3.0S080N	●	7.0	0 -0.015	32	33	8	70	fig.1
KDZ0710X3.0S080N	●	7.1						
KDZ0720X3.0S080N	●	7.2						
KDZ0730X3.0S080N	●	7.3						
KDZ0740X3.0S080N	●	7.4						
KDZ0750X3.0S080N	●	7.5						
KDZ0760X3.0S080N	●	7.6	0 -0.015	34	35	8	70	fig.1
KDZ0770X3.0S080N	●	7.7						
KDZ0780X3.0S080N	●	7.8						
KDZ0790X3.0S080N	●	7.9	0 -0.015	36	37	10	80	fig.1
KDZ0800X3.0S080N	●	8.0						
KDZ0810X3.0S100N	●	8.1						
KDZ0820X3.0S100N	●	8.2						
KDZ0830X3.0S100N	●	8.3						
KDZ0840X3.0S100N	●	8.4	0 -0.015	38	39	10	80	fig.1
KDZ0850X3.0S100N	●	8.5						
KDZ0860X3.0S100N	●	8.6						
KDZ0870X3.0S100N	●	8.7	0 -0.015	39	40	10	80	fig.1
KDZ0880X3.0S100N	●	8.8						
KDZ0890X3.0S100N	●	8.9						
KDZ0900X3.0S100N	●	9.0	0 -0.015	40	41	10	80	fig.1
KDZ0910X3.0S100N	●	9.1						
KDZ0920X3.0S100N	●	9.2						
KDZ0930X3.0S100N	●	9.3						
KDZ0940X3.0S100N	●	9.4						

가공 깊이는 2.0D(2.0 x DC)를 기준으로 삼으십시오.
2D이상의 깊이인 경우에는 스텝가공을 권장합니다.

규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0950X3.0S100N	●	9.5	0 -0.015	42	43	10	80	fig.1
KDZ0960X3.0S100N	●	9.6						
KDZ0970X3.0S100N	●	9.7						
KDZ0980X3.0S100N	●	9.8						
KDZ0990X3.0S100N	●	9.9						
KDZ1000X3.0S100N	●	10.0	0 -0.015	45	45	10	80	fig.1
KDZ1010X3.0S120N	●	10.1	0 -0.018		46	12	100	
KDZ1020X3.0S120N	●	10.2						
KDZ1030X3.0S120N	●	10.3	0 -0.018	46	47	12	100	fig.1
KDZ1040X3.0S120N	●	10.4						
KDZ1050X3.0S120N	●	10.5	0 -0.018	47	48	12	100	fig.1
KDZ1060X3.0S120N	●	10.6						
KDZ1070X3.0S120N	●	10.7						
KDZ1080X3.0S120N	●	10.8						
KDZ1090X3.0S120N	●	10.9						
KDZ1100X3.0S120N	●	11.0	0 -0.018	51	52	12	100	fig.1
KDZ1110X3.0S120N	●	11.1						
KDZ1120X3.0S120N	●	11.2						
KDZ1130X3.0S120N	●	11.3						
KDZ1140X3.0S120N	●	11.4						
KDZ1150X3.0S120N	●	11.5	0 -0.018	53	54	12	100	fig.1
KDZ1160X3.0S120N	●	11.6						
KDZ1170X3.0S120N	●	11.7						
KDZ1180X3.0S120N	●	11.8						
KDZ1190X3.0S120N	●	11.9						
KDZ1200X3.0S120N	●	12.0	0 -0.018	54	54	12	100	fig.1

● : 표준재고

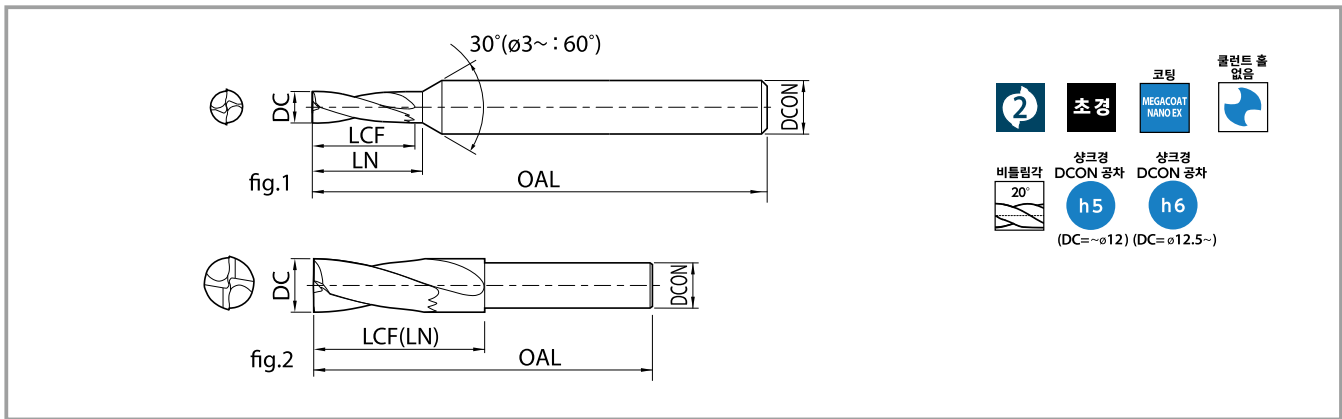


규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0100X1.5S040N-HP	●	1.0	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	3.5	4.3	4	50	fig.1
KDZ0110X1.5S040N-HP	●	1.1	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	3.9	4.7	4	50	fig.1
KDZ0120X1.5S040N-HP	●	1.2	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	4.3	5.1	4	50	fig.1
KDZ0130X1.5S040N-HP	●	1.3	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	4.7	5.5	4	50	fig.1
KDZ0140X1.5S040N-HP	●	1.4	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	5.1	5.9	4	50	fig.1
KDZ0150X1.5S040N-HP	●	1.5	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	5.5	6.3	4	50	fig.1
KDZ0160X1.5S040N-HP	●	1.6	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	5.7	6.5	4	50	fig.1
KDZ0170X1.5S040N-HP	●	1.7	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	5.9	6.7	4	50	fig.1
KDZ0180X1.5S040N-HP	●	1.8	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	6.1	6.9	4	50	fig.1
KDZ0190X1.5S040N-HP	●	1.9	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	6.3	7.1	4	50	fig.1
KDZ0200X1.5S040N-HP	●	2.0	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	6.5	7.3	4	50	fig.1
KDZ0210X1.5S040N-HP	●	2.1	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	6.9	7.7	4	50	fig.1
KDZ0220X1.5S040N-HP	●	2.2	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	7.3	8.1	4	50	fig.1
KDZ0230X1.5S040N-HP	●	2.3	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	7.7	8.5	4	50	fig.1
KDZ0240X1.5S040N-HP	●	2.4	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	8.1	8.9	4	50	fig.1
KDZ0250X1.5S040N-HP	●	2.5	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	8.5	9.3	4	50	fig.1
KDZ0260X1.5S040N-HP	●	2.6	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	8.8	9.5	4	50	fig.1
KDZ0270X1.5S040N-HP	●	2.7	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	9.1	9.8	4	50	fig.1
KDZ0280X1.5S040N-HP	●	2.8	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	9.3	10.0	4	50	fig.1
KDZ0290X1.5S040N-HP	●	2.9	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	9.5	10.3	4	50	fig.1
KDZ0300X1.5S060N-HP	●	3.0	$\begin{smallmatrix} 0 \\ -0.010 \end{smallmatrix}$	9	10	6	60	fig.1
KDZ0310X1.5S060N-HP	●	3.1	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	10	11	6	60	fig.1
KDZ0320X1.5S060N-HP	●	3.2						
KDZ0330X1.5S060N-HP	●	3.3	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	11	12	6	60	fig.1
KDZ0340X1.5S060N-HP	●	3.4						
KDZ0350X1.5S060N-HP	●	3.5	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	12	13	6	60	fig.1
KDZ0360X1.5S060N-HP	●	3.6						
KDZ0370X1.5S060N-HP	●	3.7	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	12	13	6	60	fig.1
KDZ0380X1.5S060N-HP	●	3.8						
KDZ0390X1.5S060N-HP	●	3.9	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	13	14	6	60	fig.1
KDZ0400X1.5S060N-HP	●	4.0						
KDZ0410X1.5S060N-HP	●	4.1	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	13	14	6	60	fig.1
KDZ0420X1.5S060N-HP	●	4.2						
KDZ0430X1.5S060N-HP	●	4.3						

가공 깊이는 1.5D(1.5 x DC)를 기준으로 삼으십시오.

규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0440X1.5S060N-HP	●	4.4	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	14	15	6	60	fig.1
KDZ0450X1.5S060N-HP	●	4.5						
KDZ0460X1.5S060N-HP	●	4.6	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	15	16	6	60	fig.1
KDZ0470X1.5S060N-HP	●	4.7						
KDZ0480X1.5S060N-HP	●	4.8	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	16	17	6	60	fig.1
KDZ0490X1.5S060N-HP	●	4.9						
KDZ0500X1.5S060N-HP	●	5.0	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	16	17	6	60	fig.1
KDZ0510X1.5S060N-HP	●	5.1						
KDZ0520X1.5S060N-HP	●	5.2	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	17	18	6	60	fig.1
KDZ0530X1.5S060N-HP	●	5.3						
KDZ0540X1.5S060N-HP	●	5.4	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	17	18	6	60	fig.1
KDZ0550X1.5S060N-HP	●	5.5						
KDZ0560X1.5S060N-HP	●	5.6	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	18	19	6	60	fig.1
KDZ0570X1.5S060N-HP	●	5.7						
KDZ0580X1.5S060N-HP	●	5.8	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	19	21	6	60	fig.1
KDZ0590X1.5S060N-HP	●	5.9						
KDZ0600X1.5S060N-HP	●	6.0	$\begin{smallmatrix} 0 \\ -0.012 \end{smallmatrix}$	19	21	8	70	fig.1
KDZ0610X1.5S080N-HP	●	6.1						
KDZ0620X1.5S080N-HP	●	6.2	$\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$	20	22	8	70	fig.1
KDZ0630X1.5S080N-HP	●	6.3						
KDZ0640X1.5S080N-HP	●	6.4	$\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$	20	22	8	70	fig.1
KDZ0650X1.5S080N-HP	●	6.5						
KDZ0660X1.5S080N-HP	●	6.6	$\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$	21	23	8	70	fig.1
KDZ0670X1.5S080N-HP	●	6.7						
KDZ0680X1.5S080N-HP	●	6.8	$\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$	22	24	8	70	fig.1
KDZ0690X1.5S080N-HP	●	6.9						
KDZ0700X1.5S080N-HP	●	7.0	$\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$	23	25	8	70	fig.1
KDZ0710X1.5S080N-HP	●	7.1						
KDZ0720X1.5S080N-HP	●	7.2	$\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$	23	25	8	70	fig.1
KDZ0730X1.5S080N-HP	●	7.3						
KDZ0740X1.5S080N-HP	●	7.4	$\begin{smallmatrix} 0 \\ -0.015 \end{smallmatrix}$	23	25	8	70	fig.1
KDZ0750X1.5S080N-HP	●	7.5						

● : 표준재고

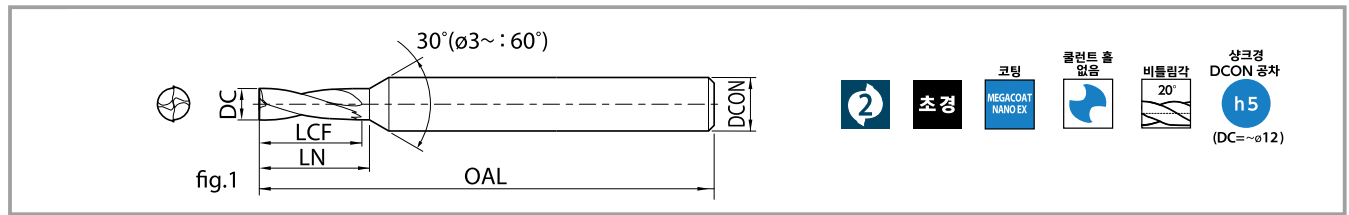


규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0760X1.5S080N-HP	●	7.6						fig.1
KDZ0770X1.5S080N-HP	●	7.7						
KDZ0780X1.5S080N-HP	●	7.8						
KDZ0790X1.5S080N-HP	●	7.9						
KDZ0800X1.5S080N-HP	●	8.0						fig.1
KDZ0810X1.5S100N-HP	●	8.1						
KDZ0820X1.5S100N-HP	●	8.2						fig.1
KDZ0830X1.5S100N-HP	●	8.3						
KDZ0840X1.5S100N-HP	●	8.4						fig.1
KDZ0850X1.5S100N-HP	●	8.5						
KDZ0860X1.5S100N-HP	●	8.6						fig.1
KDZ0870X1.5S100N-HP	●	8.7						
KDZ0880X1.5S100N-HP	●	8.8						fig.1
KDZ0890X1.5S100N-HP	●	8.9						
KDZ0900X1.5S100N-HP	●	9.0						fig.1
KDZ0910X1.5S100N-HP	●	9.1						
KDZ0920X1.5S100N-HP	●	9.2						fig.1
KDZ0930X1.5S100N-HP	●	9.3						
KDZ0940X1.5S100N-HP	●	9.4						
KDZ0950X1.5S100N-HP	●	9.5						
KDZ0960X1.5S100N-HP	●	9.6						fig.1
KDZ0970X1.5S100N-HP	●	9.7						
KDZ0980X1.5S100N-HP	●	9.8						fig.1
KDZ0990X1.5S100N-HP	●	9.9						
KDZ1000X1.5S100N-HP	●	10.0						fig.1
KDZ1010X1.5S120N-HP	●	10.1						
KDZ1020X1.5S120N-HP	●	10.2						fig.1
KDZ1030X1.5S120N-HP	●	10.3						
KDZ1040X1.5S120N-HP	●	10.4						fig.1
KDZ1050X1.5S120N-HP	●	10.5						
KDZ1060X1.5S120N-HP	●	10.6						
KDZ1070X1.5S120N-HP	●	10.7						
KDZ1080X1.5S120N-HP	●	10.8						

가공 깊이는 1.5D(1.5 x DC)를 기준으로 삼으십시오.

규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ1090X1.5S120N-HP	●	10.9						fig.1
KDZ1100X1.5S120N-HP	●	11.0						
KDZ1110X1.5S120N-HP	●	11.1						
KDZ1120X1.5S120N-HP	●	11.2						fig.1
KDZ1130X1.5S120N-HP	●	11.3						
KDZ1140X1.5S120N-HP	●	11.4						
KDZ1150X1.5S120N-HP	●	11.5						fig.1
KDZ1160X1.5S120N-HP	●	11.6						
KDZ1170X1.5S120N-HP	●	11.7						
KDZ1180X1.5S120N-HP	●	11.8						
KDZ1190X1.5S120N-HP	●	11.9						fig.1
KDZ1200X1.5S120N-HP	●	12.0						
KDZ1250X1.5S120N-HP	●	12.5						fig.2
KDZ1300X1.5S120N-HP	●	13.0						
KDZ1350X1.5S120N-HP	●	13.5						
KDZ1400X1.5S120N-HP	●	14.0						
KDZ1450X1.5S120N-HP	●	14.5						fig.2
KDZ1500X1.5S120N-HP	●	15.0						
KDZ1550X1.5S120N-HP	●	15.5						
KDZ1600X1.5S160N-HP	●	16.0						fig.1
KDZ1650X1.5S160N-HP	●	16.5						
KDZ1700X1.5S160N-HP	●	17.0						fig.2
KDZ1750X1.5S160N-HP	●	17.5						
KDZ1800X1.5S160N-HP	●	18.0						
KDZ1850X1.5S160N-HP	●	18.5						fig.2
KDZ1900X1.5S160N-HP	●	19.0						
KDZ1950X1.5S160N-HP	●	19.5						
KDZ2000X1.5S200N-HP	●	20.0						fig.1

● : 표준재고



규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0300X3.0S060N-HP	●	3.0	$0_{-0.010}^0$	14	15	6	60	fig.1
KDZ0310X3.0S060N-HP	●	3.1	$0_{-0.012}^0$	14	15	6	60	fig.1
KDZ0320X3.0S060N-HP	●	3.2						
KDZ0330X3.0S060N-HP	●	3.3	$0_{-0.012}^0$	15	16	6	60	fig.1
KDZ0340X3.0S060N-HP	●	3.4						
KDZ0350X3.0S060N-HP	●	3.5	$0_{-0.012}^0$	17	18	6	60	fig.1
KDZ0360X3.0S060N-HP	●	3.6						
KDZ0370X3.0S060N-HP	●	3.7						
KDZ0380X3.0S060N-HP	●	3.8						
KDZ0390X3.0S060N-HP	●	3.9						
KDZ0400X3.0S060N-HP	●	4.0	$0_{-0.012}^0$	19	20	6	60	fig.1
KDZ0410X3.0S060N-HP	●	4.1						
KDZ0420X3.0S060N-HP	●	4.2	$0_{-0.012}^0$	20	21	6	60	fig.1
KDZ0430X3.0S060N-HP	●	4.3						
KDZ0440X3.0S060N-HP	●	4.4	$0_{-0.012}^0$	21	22	6	60	fig.1
KDZ0450X3.0S060N-HP	●	4.5						
KDZ0460X3.0S060N-HP	●	4.6						
KDZ0470X3.0S060N-HP	●	4.7						
KDZ0480X3.0S060N-HP	●	4.8						
KDZ0490X3.0S060N-HP	●	4.9	$0_{-0.012}^0$	23	24	6	60	fig.1
KDZ0500X3.0S060N-HP	●	5.0						
KDZ0510X3.0S060N-HP	●	5.1						
KDZ0520X3.0S060N-HP	●	5.2						
KDZ0530X3.0S060N-HP	●	5.3						
KDZ0540X3.0S060N-HP	●	5.4	$0_{-0.012}^0$	24	25	6	60	fig.1
KDZ0550X3.0S060N-HP	●	5.5						
KDZ0560X3.0S060N-HP	●	5.6	$0_{-0.012}^0$	26	27	6	60	fig.1
KDZ0570X3.0S060N-HP	●	5.7						
KDZ0580X3.0S060N-HP	●	5.8						
KDZ0590X3.0S060N-HP	●	5.9						
KDZ0600X3.0S060N-HP	●	6.0						
KDZ0610X3.0S080N-HP	●	6.1	$0_{-0.015}^0$	28	29	8	70	fig.1
KDZ0620X3.0S080N-HP	●	6.2						
KDZ0630X3.0S080N-HP	●	6.3						
KDZ0640X3.0S080N-HP	●	6.4						
KDZ0650X3.0S080N-HP	●	6.5	$0_{-0.015}^0$	30	31	8	70	fig.1
KDZ0660X3.0S080N-HP	●	6.6						
KDZ0670X3.0S080N-HP	●	6.7	$0_{-0.015}^0$	31	32	8	70	fig.1
KDZ0680X3.0S080N-HP	●	6.8						
KDZ0690X3.0S080N-HP	●	6.9						
KDZ0700X3.0S080N-HP	●	7.0	$0_{-0.015}^0$	32	33	8	70	fig.1
KDZ0710X3.0S080N-HP	●	7.1						
KDZ0720X3.0S080N-HP	●	7.2						
KDZ0730X3.0S080N-HP	●	7.3						
KDZ0740X3.0S080N-HP	●	7.4						
KDZ0750X3.0S080N-HP	●	7.5	$0_{-0.015}^0$	34	35	8	70	fig.1

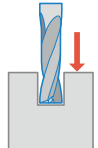
규격	재고	치수 (mm)						형상
		DC	외경공차	LCF	LN	DCON	OAL	
KDZ0760X3.0S080N-HP	●	7.6	$0_{-0.015}^0$	34	35	8	70	fig.1
KDZ0770X3.0S080N-HP	●	7.7						
KDZ0780X3.0S080N-HP	●	7.8						
KDZ0790X3.0S080N-HP	●	7.9	$0_{-0.015}^0$	36	(36)	8	70	fig.1
KDZ0800X3.0S080N-HP	●	8.0						
KDZ0810X3.0S100N-HP	●	8.1						
KDZ0820X3.0S100N-HP	●	8.2				10	80	fig.1
KDZ0830X3.0S100N-HP	●	8.3						
KDZ0840X3.0S100N-HP	●	8.4	$0_{-0.015}^0$	38	39	10	80	fig.1
KDZ0850X3.0S100N-HP	●	8.5						
KDZ0860X3.0S100N-HP	●	8.6						
KDZ0870X3.0S100N-HP	●	8.7				10	80	fig.1
KDZ0880X3.0S100N-HP	●	8.8						
KDZ0890X3.0S100N-HP	●	8.9	$0_{-0.015}^0$	40	41	10	80	fig.1
KDZ0900X3.0S100N-HP	●	9.0						
KDZ0910X3.0S100N-HP	●	9.1						
KDZ0920X3.0S100N-HP	●	9.2						
KDZ0930X3.0S100N-HP	●	9.3						
KDZ0940X3.0S100N-HP	●	9.4	$0_{-0.015}^0$	42	43	10	80	fig.1
KDZ0950X3.0S100N-HP	●	9.5						
KDZ0960X3.0S100N-HP	●	9.6						
KDZ0970X3.0S100N-HP	●	9.7						
KDZ0980X3.0S100N-HP	●	9.8						
KDZ0990X3.0S100N-HP	●	9.9	$0_{-0.015}^0$	45	(45)	10	80	fig.1
KDZ1000X3.0S100N-HP	●	10.0						
KDZ1010X3.0S120N-HP	●	10.1	$0_{-0.018}^0$	45	46	12	100	fig.1
KDZ1020X3.0S120N-HP	●	10.2						
KDZ1030X3.0S120N-HP	●	10.3	$0_{-0.018}^0$	46	47	12	100	fig.1
KDZ1040X3.0S120N-HP	●	10.4						
KDZ1050X3.0S120N-HP	●	10.5						
KDZ1060X3.0S120N-HP	●	10.6				12	100	fig.1
KDZ1070X3.0S120N-HP	●	10.7						
KDZ1080X3.0S120N-HP	●	10.8	$0_{-0.018}^0$	47	48	12	100	fig.1
KDZ1090X3.0S120N-HP	●	10.9						
KDZ1100X3.0S120N-HP	●	11.0						
KDZ1110X3.0S120N-HP	●	11.1	$0_{-0.018}^0$	51	52	12	100	fig.1
KDZ1120X3.0S120N-HP	●	11.2						
KDZ1130X3.0S120N-HP	●	11.3						
KDZ1140X3.0S120N-HP	●	11.4	$0_{-0.018}^0$	53	54	12	100	fig.1
KDZ1150X3.0S120N-HP	●	11.5						
KDZ1160X3.0S120N-HP	●	11.6						
KDZ1170X3.0S120N-HP	●	11.7						
KDZ1180X3.0S120N-HP	●	11.8						
KDZ1190X3.0S120N-HP	●	11.9	$0_{-0.018}^0$	54	(54)	12	100	fig.1
KDZ1200X3.0S120N-HP	●	12.0						

● : 표준재고

가공 깊이는 2.0D(2.0 x DC)를 기준으로 삼으십시오.
2D이상의 깊이인 경우에는 스텝가공을 권장합니다.

절삭조건 표

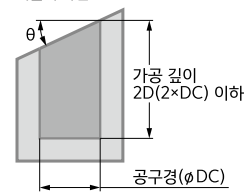
KDZ

피삭재	구분	외경 DC (mm)	ø1	ø2	ø3	ø4	ø5	ø6	ø8	ø10	ø12
일반 구조용강 · 탄소강 SS400, S45C	 드릴가공	회전수 (min ⁻¹)	19,500	11,200	8,300	6,200	5,000	4,200	3,200	2,500	2,100
		이송 (mm/min)	300	380	520	520	520	520	520	520	450
합금강 SCM, SNCM		회전수 (min ⁻¹)	19,000	10,000	7,200	5,400	4,400	3,600	2,700	2,200	1,800
		이송 (mm/min)	300	320	450	450	450	450	450	450	400
프리하든강 (30 ~ 45HRC)		회전수 (min ⁻¹)	16,000	8,000	3,900	2,900	2,300	1,900	1,500	1,200	1,000
		이송 (mm/min)	210	210	210	210	210	210	210	210	190
덕타일 주철 FCD400		회전수 (min ⁻¹)	16,000	10,000	7,200	5,400	4,400	3,600	2,700	2,200	1,800
		이송 (mm/min)	200	300	390	390	390	390	390	390	340
알루미늄 합금 A7075		회전수 (min ⁻¹)	20,000	20,000	17,800	13,100	10,500	8,900	6,700	5,400	4,500
		이송 (mm/min)	500	850	1,270	1,270	1,270	1,270	1,270	1,270	1,270
알루미늄 합금 주물 AC, ADC		회전수 (min ⁻¹)	20,000	20,000	13,100	10,000	8,000	6,700	5,000	4,000	3,400
		이송 (mm/min)	450	750	820	820	820	820	820	820	820

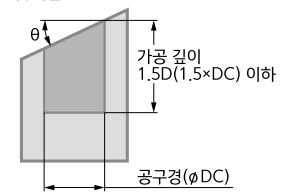
주의

- 이 공구는 드릴가공 전용이기 때문에, 횡이송가공에는 사용할 수 없습니다.
- 절삭유 사용을 권장합니다.
- 기계 강성, 공구 돌출량에 따라서 절삭조건을 조정하십시오.
- 2D 이상의 길이인 경우에는 스텝가공을 권장합니다.
- 머신, 칩은 가능한 강성이 높은 것을 사용하십시오.
- 스테인리스강(SUS304 · SUS316)의 절삭은 권장하지 않습니다.
- 경사면에서 가공하는 경우에는 워크의 경사면에 따라 가공조건을 조정이 필요합니다.(우측 그림)
워크 경사각(θ) ≤ 30° ⇒ 이송을 50% 이하로 낮추십시오.
워크 경사각(θ) > 30° ⇒ 회전수를 70% 이하, 이송을 30% 이하로 낮추십시오.

레귤러 타입

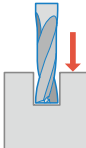


샷 타입



절삭조건 표

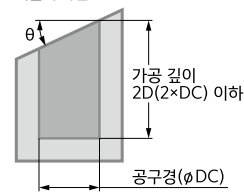
KDZ-HP

피삭재	구분	외경 DC (mm)	ø1	ø1.5	ø2	ø2.5	ø3	ø3.5	ø4	ø4.5	ø5	ø6	ø8	ø10	ø12	ø14	ø16	ø18	ø20
일반 구조용강 · 탄소강 S5400, S45C	 드릴가공	회전수 (min ⁻¹)	20,700	13,800	11,150	9,200	9,100	7,800	6,800	6,100	5,500	4,600	3,500	2,800	2,300	1,800	1,600	1,400	1,300
		이송 (mm/min)	350	350	430	430	520	520	520	520	520	520	520	520	520	520	480	480	480
금형강 SCM, SNCM		회전수 (min ⁻¹)	17,500	11,700	9,600	7,650	7,200	6,200	5,400	4,800	4,400	3,600	2,700	2,200	1,800	1,500	1,350	1,200	1,100
		이송 (mm/min)	290	290	380	380	450	450	450	450	450	450	450	450	450	450	420	420	420
프리하든강 (30 ~ 45HRC)		회전수 (min ⁻¹)	9,600	6,400	5,570	4,460	3,900	3,400	2,900	2,600	2,300	1,900	1,500	1,200	1,000	850	750	650	600
		이송 (mm/min)	120	120	170	170	210	210	210	210	210	210	210	210	210	210	200	200	200
덕타일 주철 FCD400		회전수 (min ⁻¹)	15,900	10,600	10,360	8,290	7,200	6,200	5,400	4,800	4,400	3,600	2,700	2,200	1,800	1,550	1,350	1,200	1,100
		이송 (mm/min)	220	250	390	390	390	390	390	390	390	390	390	390	390	390	360	360	360
알루미늄 합금 A7075		회전수 (min ⁻¹)	39,800	26,600	23,000	18,500	17,800	15,200	13,100	11,800	10,500	8,900	6,700	5,400	4,500	3,800	3,400	3,000	2,700
		이송 (mm/min)	900	1,000	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270	1,270
알루미늄 합금 주물 AC, ADC		회전수 (min ⁻¹)	29,000	19,200	17,500	14,000	13,100	11,500	10,000	8,800	8,000	6,700	5,000	4,000	3,400	2,900	2,500	2,200	2,000
		이송 (mm/min)	550	550	820	820	820	820	820	820	820	820	820	820	820	820	820	820	820

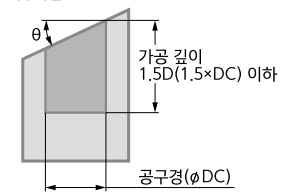
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워크 경사각(θ) $> 30^\circ \Rightarrow$ 회전수를 70% 이하, 이송을 30% 이하로 낮추십시오.

레귤러 타입



숏 타입





모든 요구에 대한 베스트 밸런스를 추구하고,
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절삭공구에 관련한 문의사항은

한국교세라정공 영업기술팀 032-899-1366

FAX : 032-821-8369

●상담시간 8:30~12:00·13:00~16:30 ●토요일·일요일·공휴일 등은 쉽니다.

한국교세라정공(주)
영업본부

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