

NC6315



Turning Solution for Cast Iron

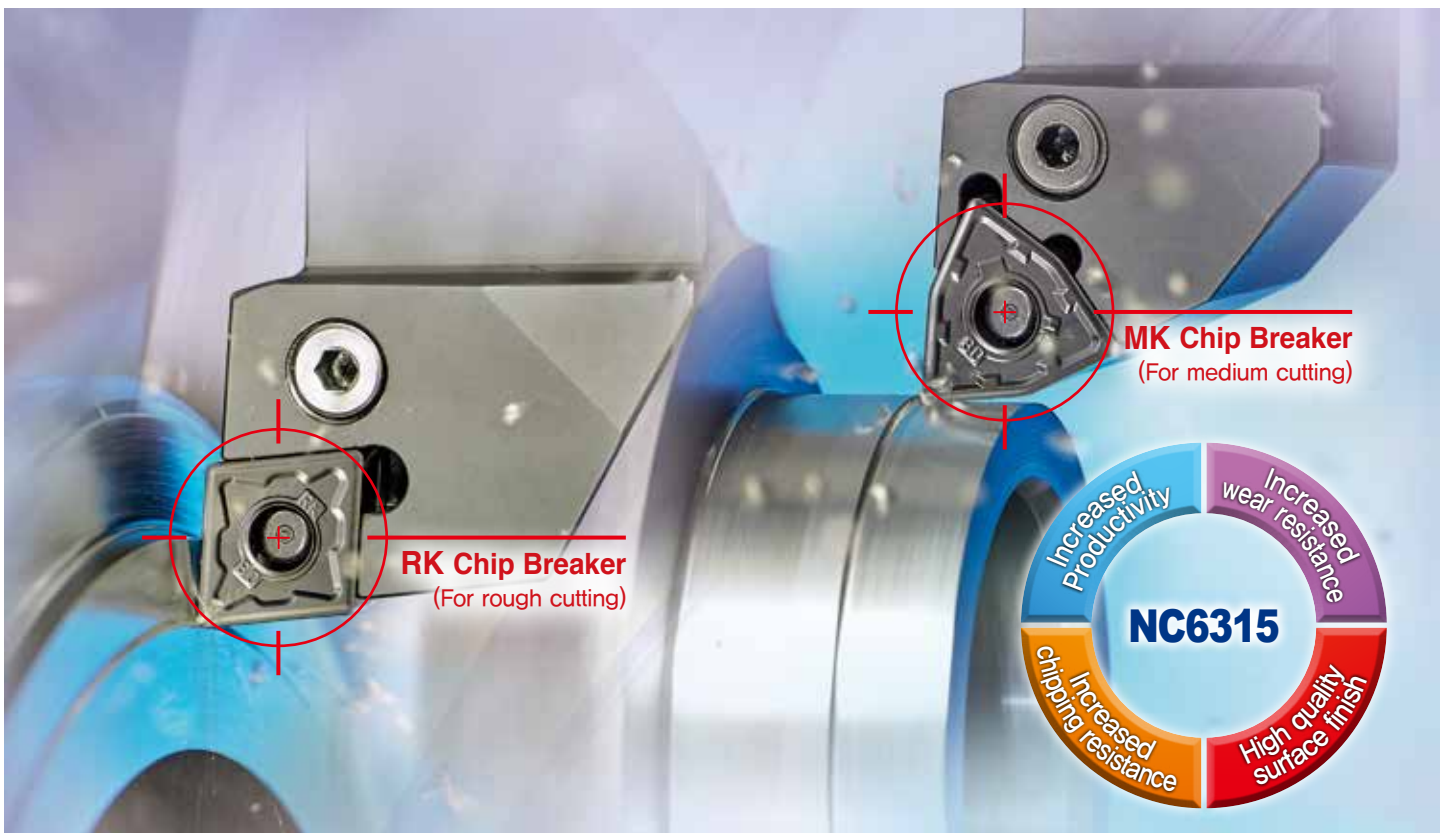
Advanced turning solution for cast iron under high speed, high feed, and interrupted cutting conditions

- **Higher Wear and Chipping Resistance**

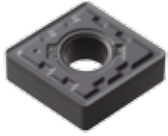
CVD coated inserts with increased resistance to wear and chipping

- **Solutions for Most Common Issues in Cast Iron Machining**

Preventing excessive wear on rake and flank surfaces of insert, chipping and burr creation

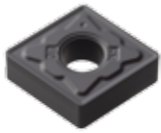


For ductile cast iron and gray cast iron components for automobiles and machinery **CVD Coated Grade for High Efficiency and Quality Turning Application of Cast Iron**



MK Chip Breaker

For medium cutting



RK Chip Breaker

For rough cutting

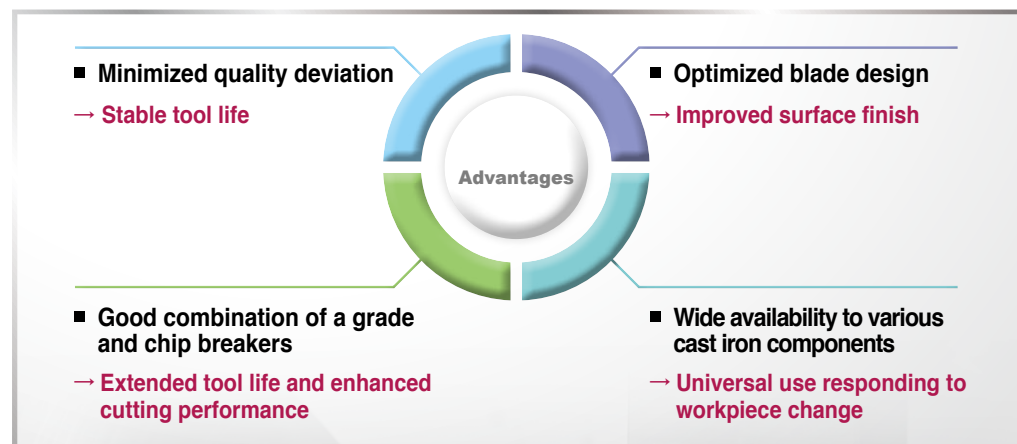
Cast iron refers to ferrous metal that contains more than 2% of carbon and can be sorted into ductile cast iron and gray cast iron. Ductile cast iron is commonly used in automobile and machinery components which require high resistance to heat and corrosion. Ductile cast iron is known for damage on cutting edge due to chipping on the rake and flank surface of an insert, or welding, more frequently than gray cast iron, it's spheroidal carbide contains silicon(Si) and magnesium(Mg) easily causing built-up edges between the tool and chips. Moreover it is prone to age hardening, the hardness of a cast iron workpiece increases at room temperature, or unstable tool life according to seasons. In contrast, gray cast iron is an acicular carbide readily cutting chips and causing less built-up edges than ductile cast iron.

NC6315 is a K15 grade with largely enhanced resistance to chipping and wear in high feed and highly interrupted machining of ductile cast iron and gray cast iron. It secures stable anti-fracture capability even with highly interrupted cast iron materials and with severe vibrations, making good use of the combination of a universal grade and new CVD coated layers.

MK chip breaker improves cutting performance and reduces cutting load during cast iron machining, leading to higher wear resistance and quality surface finish at high speed and continuous cutting. A wide supporting area was designed for solving unexpected tool breakage and edge chipping due to vibrations during machining, improving stability.

RK chip breaker features wide lands and supporting area that provide excellent toughness and fracture resistance under high cutting force such as high depth of cuts or high interruption. Its land was engineered to optimize edge toughness and cutting performance, and achieve stable tool life and higher chipping resistance for high feed applications.

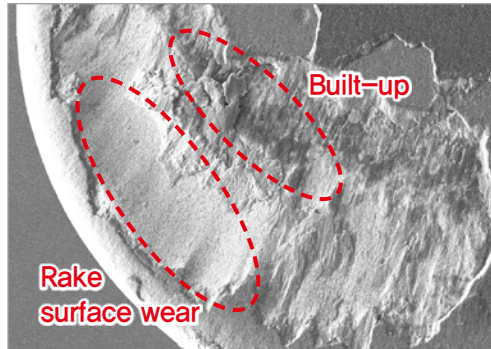
The combination of MK / RK chip breakers and NC6315 answers your needs for higher productivity and high quality results.



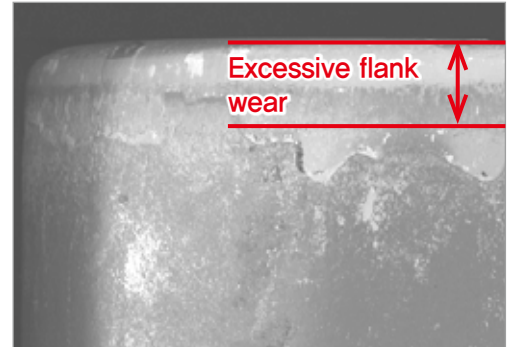
NC6315 CVD Coated Grade

Common Problems When Machining Cast Iron

1. Rake surface wear and built-up edge

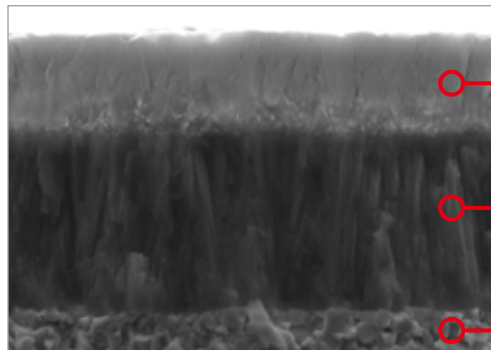


2. Excessive flank wear



Development of the NC6315

New coating layers



- ① An alumina layer with better surface finish and increased resistance to wear and welding
- ② A titanium layer with stronger anti-fracture
- ③ A functional substrate with optimized combination of hardness and toughness

Optimized CVD coated layers

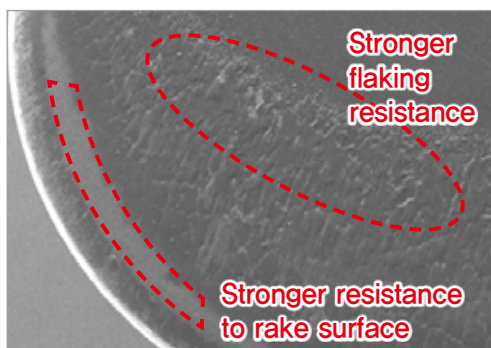
Extended cutting life and exceptional performance

Higher productivity

Development Effect

- Excellent wear resistance in highly interrupted cutting of ductile / gray cast iron at high speed over 1148sfm
- Upgraded alumina coating layer
→ Minimizes built-up edges
- Augmented tool life stability and wear resistance

1. Improved resistance to wear and flaking



2. Enhanced wear resistance



NC6315

MK Chip Breaker (for medium cutting)

- Ideally suited for continuous cutting of ductile cast iron and gray cast iron
- Angle lands provide upgraded surface finish

➤ MK Chip Breaker Features

Angle land



- Sharper cutting performance thanks to applied angle lands
- Maximized wear resistance in continuous cutting
- High quality results in surface finish

Wide supporting area

- Higher clamping stability
- Prevents chipping at vibrations during operation



[Code system of chip breakers]

M K

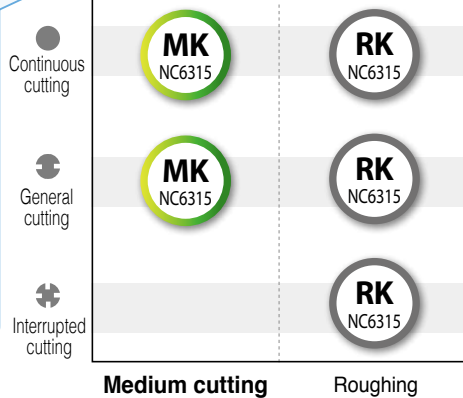
[Workpiece material]

- P: Steel
- M: Stainless steel
- **K : Cast iron**

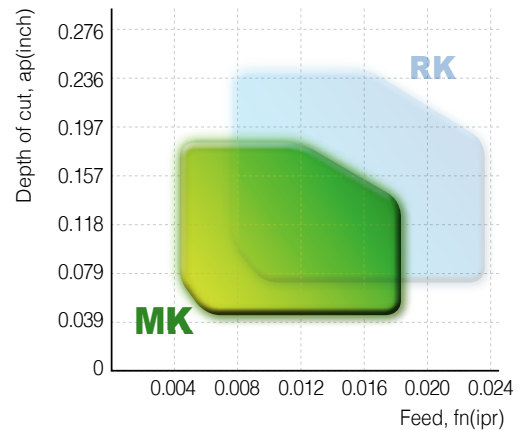
[Application range]

- **M: Medium**
- R: Roughing

➤ Application Range



➤ Recommended Cutting Range



➤ Recommended Cutting Conditions

Application	Chip breaker	Recommended Cutting Conditions					
		Depth of cut, ap(inch)			Feed, fn(ipr)		
		Min.	Recommended	Max.	Min.	Recommended	Max.
For medium cutting	MK	0.039	0.098	0.197	0.004	0.098	0.020

RK Chip Breaker (for roughing)



- Ideally suited for high speed / high feed cutting of ductile cast iron and gray cast iron
- Flat lands provide upgraded toughness and chipping resistance

RK Chip Breaker Features

Flat land



- Upgraded toughness and chipping resistance thanks to flat lands applied
- Stable machining availability under high cutting loads at high depth of cuts or interrupted cutting
- Optimized land width for high feed machining

Wide supporting area

- Higher clamping stability
- Prevents chipping at vibrations during operation



[Code system of chip breakers]

R K

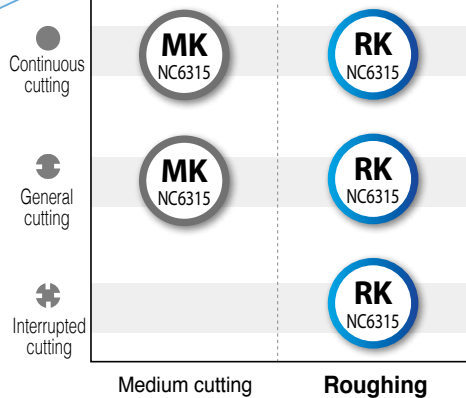
[Workpiece material]

- P: Steel
- M: Stainless steel
- **K : Cast iron**

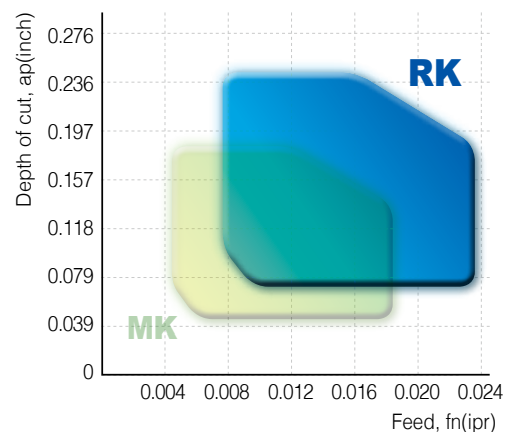
[Application range]

- M: Medium
- **R: Roughing**

Application Range



Recommended Cutting Range



Recommended Cutting Conditions

Application	Chip breaker	Recommended Cutting Conditions					
		Depth of cut, a_p (inch)			Feed, f_n (ipr)		
		Min.	Recommended	Max.	Min.	Recommended	Max.
For roughing	RK	0.059	0.118	0.236	0.009	0.011	0.024

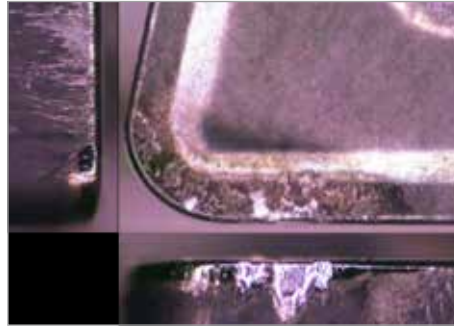
Cutting Performance



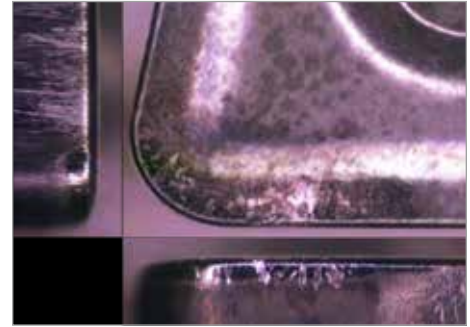
- Built-up edges easily occur when machining ductile cast iron in high interruption
→ Vulnerable to flaking of rake surface coatings
- An alumina coating applied to improve resistance to wear and welding
→ Exceptional chipping resistance
- A functional substrate with optimized combination of hardness and toughness
→ Augmented tool life stability and wear resistance

Impact resistance test

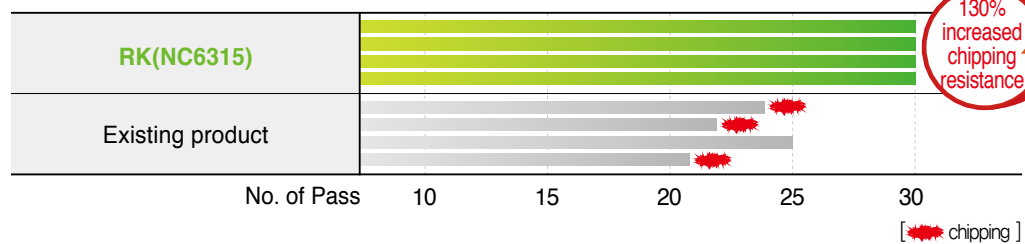
- **Workpiece** 80-55-06(AISI), Ø3.543 (Triangular tube) → Ø1.181 machining
- **Cutting conditions** $vc(sfm) = 1246$, $fn(ipr) = 0.014$, $ap(inch) = 0.079$, wet
- **Cutting time** 15 passes with results of normal rake surface wear and good chipping resistance
- **Tools** **Insert** CNMG432-RK (NC6315) **Holder** DCLNR16-4D



[Existing Product]



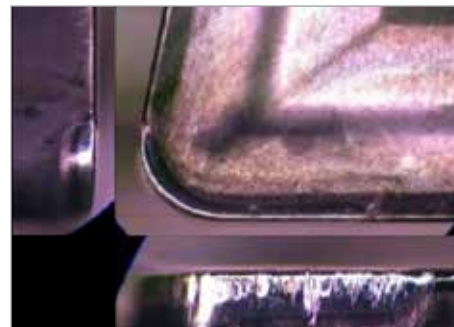
[RK(NC6315)]



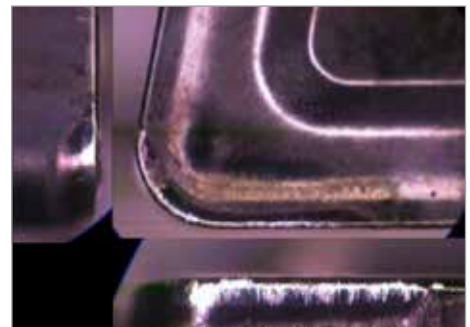
- Flank wear, edge peeling by chips and fine chipping occur in continuous cutting of ductile cast iron
- MK chip breaker with angle lands applied
→ Reduces cutting load and built-up edge
- Coating layers with exceptional welding resistance
→ Reduced edge peeling and fine chipping

Wear resistance test

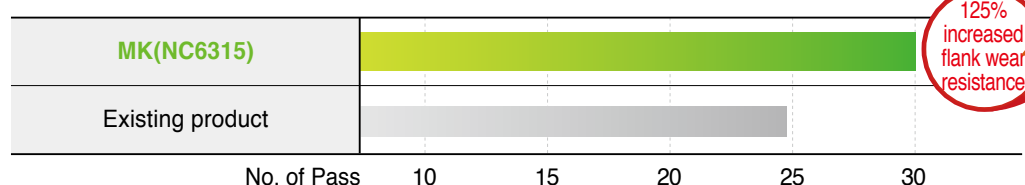
- **Workpiece** 80-55-06(AISI), Ø3.543 (Spherical tube) → Ø1.181 machining
- **Cutting conditions** $vc(sfm) = 1312$, $fn(ipr) = 0.014$, $ap(inch) = 0.098$, wet
- **Cutting time** 30 passes with results of normal wear on rake / flank surface
- **Tools** **Insert** CNMG432-MK (NC6315) **Holder** DCLNR16-4D



[Existing Product]

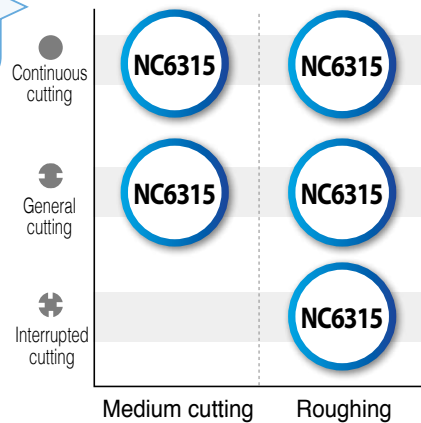


[MK(NC6315)]

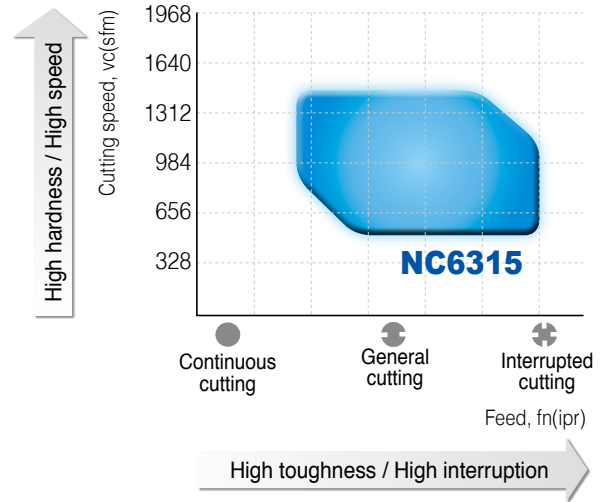


- NC6315 : The first recommended grade for general cutting

⇒ Application Range



⇒ Recommended Cutting Range



⇒ Grade Comparison

ISO	KORLOY	Competitor A	Competitor B	Competitor C	Competitor D	Competitor E	Competitor F	Competitor G
K15	NC6315	TT7015	GC3225	CA4515 CA315	UC5115 MC5015	TK2001	WKK20S	AC415K

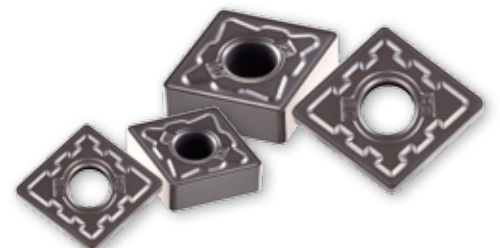
⇒ Comparison of Turning Chip Breakers for Cast Iron (Negative Type)

- MK : The first recommended chip breaker for general cutting
- RK : A chip breaker for high feed and highly interrupted cutting

Application	KORLOY	Competitor A	Competitor B	Competitor C	Competitor D	Competitor E	Competitor F	Competitor G
Medium cutting to finishing	MK	MT	KM, KF	KG, KQ	MK, LK	M5	NM5	UZ
Roughing cutting	RK	RT, KT	KR	KH	RK	MR7	-MA	GZ

⇒ Comparison of Turning Chip Breakers for Cast Iron (Positive Type)

Application	KORLOY	Competitor A	Competitor B	Competitor C	Competitor D	Competitor E	Competitor F	Competitor G
Medium cutting to finishing	MP	MT	KM	GK, HQ	MK	F2	PM5	MU
Roughing cutting	C25	-	KR	All round	-MW	-	-MW	-MW



Recommended Cutting Conditions

- This table refers to recommended cutting conditions for maximizing tool life and productivity in medium and/or rough cutting with NC6315(K15).
- It is advised to utilize this information depending on your working environment.

	Workpiece (AISI)	Tensile strength (lb/in ²)	Hardness (HB)	Recommended cutting speed, vc(sfm)		
				Min.	Recommended	Max.
GCD (Ductile cast iron)	60-40-18	≥ 2.76	≤ 201	525	1066	1214
	65-45-12	≥ 3.10	143~217	492	1033	1181
	80-55-06	≥ 3.45	170~241	492	1001	1115
	80-60-03	≥ 4.14	192~269	492	968	1050
	100-70-03	≥ 4.83	229~302	492	951	1017
	120-90-02	≥ 5.52	248~352	492	935	984
GC (Gray cast iron)	No 20 B	≥ 0.69	≤ 201	591	1296	1476
	No 25 B	≥ 1.28	≤ 241	591	1214	1312
		≥ 1.15	≤ 223	591	1230	1345
		≥ 1.03	≤ 212	591	1247	1378
		≥ 0.88	≤ 201	591	1263	1411
	No 30 B	≥ 1.62	≤ 255	525	1132	1214
		≥ 1.49	≤ 235	525	1148	1247
		≥ 1.38	≤ 223	525	1165	1280
		≥ 1.15	≤ 217	525	1181	1312
	No 35 B	≥ 1.90	≤ 269	492	1115	1214
		≥ 1.76	≤ 248	492	1125	1230
		≥ 1.72	≤ 241	492	1132	1247
		≥ 1.49	≤ 229	492	1148	1280
	No 45 B	≥ 2.10	≤ 269	492	1083	1148
		≥ 2.07	≤ 262	492	1099	1181
		≥ 1.79	≤ 248	492	1115	1214
	No 50 B	≥ 2.49	≤ 285	492	1033	1050
		≥ 2.41	≤ 277	492	1066	1115
		≥ 2.17	≤ 269	492	1083	1148

Application	Chip breaker	Recommended Cutting Conditions					
		Depth of cut, ap(inch)			Feed, fn(ipr)		
		Min.	Recommended	Max.	Min.	Recommended	Max.
For medium cutting	MK	0.039	0.098	0.197	0.004	0.098	0.020
For roughing	RK	0.059	0.118	0.236	0.009	0.011	0.024

➤ Application Examples



Brake disk

- **Workpiece** Gray cast iron (No30B)
- **Cutting conditions** $vc(sfm) = 1804$, $n(rpm) = 547$, $fn(ipr) = 0.012$, $ap(inch) = 0.118$, wet
- **Tools**
 - Insert** CNMG433-RK (NC6315)
 - Holder** DCLNR16-4D

RK(NC6315) 30ea/edge
 Competitor 24ea/edge

25%
more

➔ 25% longer tool life compared to the competitor



Diff. case mission

- **Workpiece** Ductile cast iron (80-55-06)
- **Cutting conditions** $vc(sfm) = 820$, $n(rpm) = 800$, $fn(ipr) = 0.010$, $ap(inch) = 0.059$, wet
- **Tools**
 - Insert** CNMG432-MK (NC6315)
 - Holder** DCLNR16-4D

MK(NC6315) 100ea/edge
 Competitor 70ea/edge

30%
more

➔ 30% longer tool life compared to the competitor



Fly wheel

- **Workpiece** Ductile cast iron (80-55-06)
- **Cutting conditions** $vc(sfm) = 1312$, $n(rpm) = 398$, $fn(ipr) = 0.012$, $ap(inch) = 0.079$, wet
- **Tools**
 - Insert** CNMA432 (NC6315)
 - Holder** DCLNR16-4D

NC6315 35ea/edge
 Competitor 30ea/edge

16%
more

➔ 16% longer tool life compared to the competitor



Knuckle

- **Workpiece** Ductile cast iron (80-55-06)
- **Cutting conditions** $vc(sfm) = 656$, $n(rpm) = 1100$, $fn(ipr) = 0.010$, $ap(inch) = 0.079$, wet
- **Tools**
 - Insert** DNMG442-MK (NC6315)
 - Holder** DDJLNR16-4D

MK(NC6315) 110ea/edge
 Competitor 90ea/edge

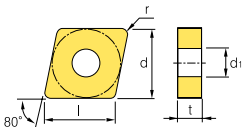
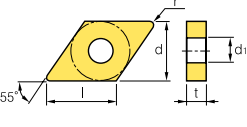
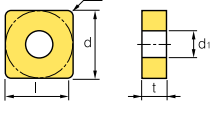
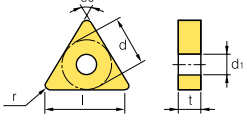
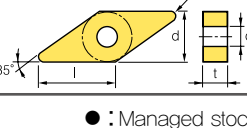
22%
more

➔ 22% longer tool life compared to the competitor

NC6315

Available Stock [Negative]

(inch)

Type	Designation		Coated	Dimensions (inch)					Cutting conditions		Figure
			NC6315	l	d	t	r	d _i	Depth of cut, ap(inch)	Feed, fn(ipr)	
C type	CNMG	431-MK	●	0.488	1/2	3/16	1/64	13/64	0.035 ~ 0.157	0.002 ~ 0.012	
		432-MK	●	0.472	1/2	3/16	1/32	13/64	0.039 ~ 0.197	0.004 ~ 0.020	
		433-MK	●	0.457	1/2	3/16	3/64	13/64	0.051 ~ 0.197	0.005 ~ 0.024	
		432-RK	●	0.472	1/2	3/16	1/32	13/64	0.059 ~ 0.236	0.008 ~ 0.020	
		433-RK	●	0.457	1/2	3/16	3/64	13/64	0.071 ~ 0.236	0.011 ~ 0.021	
		434-RK	●	0.445	1/2	3/16	1/16	13/64	0.079 ~ 0.236	0.011 ~ 0.025	
	CNMA	432	●	0.472	1/2	3/16	1/32	13/64	0.039 ~ 0.236	0.006 ~ 0.024	
		433	●	0.457	1/2	3/16	3/64	13/64	0.059 ~ 0.236	0.006 ~ 0.028	
		434	●	0.445	1/2	3/16	1/16	13/64	0.059 ~ 0.236	0.008 ~ 0.028	
D type	DNMG	441-MK	●	0.595	1/2	1/4	1/64	13/64	0.035 ~ 0.197	0.002 ~ 0.012	
		442-MK	●	0.579	1/2	1/4	1/32	13/64	0.039 ~ 0.197	0.004 ~ 0.020	
		443-MK	●	0.567	1/2	1/4	3/64	13/64	0.051 ~ 0.197	0.005 ~ 0.024	
		442-RK	●	0.579	1/2	1/4	1/32	13/64	0.059 ~ 0.236	0.009 ~ 0.021	
		443-RK	●	0.567	1/2	1/4	3/64	13/64	0.071 ~ 0.236	0.011 ~ 0.021	
	DNMA	442	●	0.579	1/2	1/4	1/32	13/64	0.032 ~ 0.158	0.011 ~ 0.022	
		443	●	0.567	1/2	1/4	3/64	13/64	0.047 ~ 0.158	0.010 ~ 0.026	
S type	SNMG	432-MK	●	0.469	1/2	3/16	1/32	13/64	0.039 ~ 0.197	0.004 ~ 0.020	
		433-MK	●	0.453	1/2	3/16	3/64	13/64	0.051 ~ 0.197	0.005 ~ 0.024	
		432-RK	●	0.469	1/2	3/16	1/32	13/64	0.059 ~ 0.236	0.009 ~ 0.021	
		433-RK	●	0.453	1/2	3/16	3/64	13/64	0.071 ~ 0.236	0.011 ~ 0.021	
		434-RK	●	0.437	1/2	3/16	1/16	13/64	0.079 ~ 0.236	0.011 ~ 0.021	
	SNMA	432	●	0.469	1/2	3/16	1/32	13/64	0.039 ~ 0.236	0.006 ~ 0.028	
		433	●	0.453	1/2	3/16	3/64	13/64	0.059 ~ 0.236	0.008 ~ 0.032	
		434	●	0.437	1/2	3/16	1/16	13/64	0.071 ~ 0.236	0.009 ~ 0.032	
T type	TNMG	331-MK	●	0.610	3/8	3/16	1/64	5/32	0.035 ~ 0.138	0.002 ~ 0.012	
		332-MK	●	0.571	3/8	3/16	1/32	5/32	0.039 ~ 0.158	0.004 ~ 0.020	
		333-MK	●	0.532	3/8	3/16	3/64	5/32	0.047 ~ 0.177	0.005 ~ 0.024	
		332-RK	●	0.571	3/8	3/16	1/32	5/32	0.059 ~ 0.197	0.009 ~ 0.021	
		333-RK	●	0.532	3/8	3/16	3/64	5/32	0.071 ~ 0.197	0.011 ~ 0.021	
		334-RK	●	0.496	3/8	3/16	1/16	5/32	0.071 ~ 0.197	0.011 ~ 0.021	
		432-RK	●	0.787	1/2	3/16	1/32	13/64	0.059 ~ 0.236	0.009 ~ 0.021	
		433-RK	●	0.748	1/2	3/16	3/64	13/64	0.071 ~ 0.236	0.011 ~ 0.021	
		434-RK	●	0.713	1/2	3/16	1/16	13/64	0.079 ~ 0.236	0.011 ~ 0.025	
	TNMA	332	●	0.571	3/8	3/16	1/32	5/32	0.039 ~ 0.158	0.004 ~ 0.016	
		333	●	0.532	3/8	3/16	3/64	5/32	0.059 ~ 0.177	0.004 ~ 0.020	
		334	●	0.496	3/8	3/16	1/16	5/32	0.059 ~ 0.177	0.006 ~ 0.022	
		432	●	0.787	1/2	3/16	1/32	13/64	0.059 ~ 0.197	0.006 ~ 0.016	
		433	●	0.748	1/2	3/16	3/64	13/64	0.059 ~ 0.197	0.008 ~ 0.020	
		434	●	0.713	1/2	3/16	1/16	13/64	0.059 ~ 0.197	0.010 ~ 0.022	
V type	VNMG	331-MK	●	0.614	3/8	3/16	1/64	5/32	0.020 ~ 0.118	0.003 ~ 0.018	
		332-MK	●	0.575	3/8	3/16	1/32	5/32	0.039 ~ 0.138	0.004 ~ 0.020	
		333-MK	●	0.516	3/8	3/16	3/64	5/32	0.059 ~ 0.158	0.008 ~ 0.020	

● : Managed stock

➡ Available Stock [Negative]

(inch)

Type	Designation		Coated	Dimensions (inch)					Cutting conditions		Figure
			NC6315	l	d	t	r	d _i	Depth of cut, ap(inch)	Feed, fn(ipr)	
W type	WNMG	431-MK	●	0.331	1/2	3/16	1/64	13/64	0.039 ~ 0.118	0.004 ~ 0.018	
		432-MK	●	0.327	1/2	3/16	1/32	13/64	0.039 ~ 0.138	0.004 ~ 0.020	
		433-MK	●	0.323	1/2	3/16	3/64	13/64	0.039 ~ 0.197	0.004 ~ 0.020	
		432-RK	●	0.327	1/2	3/16	1/32	13/64	0.059 ~ 0.236	0.009 ~ 0.021	
		433-RK	●	0.323	1/2	3/16	3/64	13/64	0.071 ~ 0.236	0.011 ~ 0.021	
		434-RK	●	0.311	1/2	3/16	1/16	13/64	0.079 ~ 0.236	0.010 ~ 0.024	
	WNMA	431	●	0.331	1/2	3/16	1/64	13/64	0.039 ~ 0.197	0.006 ~ 0.024	
		432	●	0.327	1/2	3/16	1/32	13/64	0.039 ~ 0.236	0.006 ~ 0.024	
		433	●	0.323	1/2	3/16	3/64	13/64	0.059 ~ 0.236	0.006 ~ 0.028	

➡ Available Stock [Positive]

(inch)

Type	Designation		Coated	Dimensions (inch)					Cutting conditions		Figure
			NC6315	l	d	t	r	d _i	Depth of cut, ap(inch)	Feed, fn(ipr)	
C type	CCMT	21.51-MP	●	0.236	1/4	3/32	1/64	7/64	0.012 ~ 0.059	0.002 ~ 0.006	
		21.52-MP	●	0.228	1/4	3/32	1/32	7/64	0.020 ~ 0.079	0.003 ~ 0.008	
		32.51-MP	●	0.362	3/8	5/32	1/64	11/64	0.012 ~ 0.118	0.003 ~ 0.009	
		32.52-MP	●	0.347	3/8	5/32	1/32	11/64	0.020 ~ 0.118	0.004 ~ 0.012	
		431-MP	●	0.492	1/2	3/16	1/64	7/32	0.024 ~ 0.138	0.004 ~ 0.013	
		432-MP	●	0.476	1/2	3/16	1/32	7/32	0.047 ~ 0.138	0.005 ~ 0.014	
		21.51-C25	●	0.236	1/4	3/32	1/64	7/64	0.016 ~ 0.079	0.001 ~ 0.005	
		32.51-C25	●	0.362	3/8	5/32	1/64	11/64	0.032 ~ 0.118	0.003 ~ 0.010	
		32.52-C25	●	0.347	3/8	5/32	1/32	11/64	0.039 ~ 0.118	0.004 ~ 0.012	
		431-C25	●	0.492	1/2	3/16	1/64	7/32	0.032 ~ 0.118	0.004 ~ 0.013	
		432-C25	●	0.476	1/2	3/16	1/32	7/32	0.047 ~ 0.138	0.005 ~ 0.014	
D type	DCMT	32.51-MP	●	0.441	3/8	5/32	1/64	11/64	0.020 ~ 0.091	0.003 ~ 0.008	
		32.52-MP	●	0.425	3/8	5/32	1/32	11/64	0.020 ~ 0.091	0.004 ~ 0.012	
		32.51-C25	●	0.441	3/8	5/32	1/64	11/64	0.032 ~ 0.118	0.003 ~ 0.012	
		32.52-C25	●	0.425	3/8	5/32	1/32	11/64	0.039 ~ 0.118	0.004 ~ 0.012	
S type	SCMT	32.51-MP	●	0.358	3/8	5/32	1/64	11/64	0.012 ~ 0.110	0.002 ~ 0.010	
		32.52-MP	●	0.343	3/8	5/32	1/32	11/64	0.020 ~ 0.110	0.004 ~ 0.012	
		432-MP	●	0.469	1/2	3/16	1/32	7/32	0.032 ~ 0.138	0.006 ~ 0.014	
		32.51-C25	●	0.358	3/8	5/32	1/64	11/64	0.024 ~ 0.118	0.003 ~ 0.010	
		32.52-C25	●	0.343	3/8	5/32	1/32	11/64	0.039 ~ 0.118	0.004 ~ 0.012	
T type	TCMT	432-C25	●	0.469	1/2	3/16	1/32	7/32	0.047 ~ 0.150	0.005 ~ 0.015	
		32.51-MP	●	0.610	3/8	5/32	1/64	11/64	0.012 ~ 0.098	0.003 ~ 0.008	
		32.52-MP	●	0.571	3/8	5/32	1/32	11/64	0.020 ~ 0.098	0.004 ~ 0.012	
		32.51-C25	●	0.610	3/8	5/32	1/64	11/64	0.032 ~ 0.118	0.003 ~ 0.011	
V type	VCMT	32.52-C25	●	0.571	3/8	5/32	1/32	11/64	0.039 ~ 0.118	0.004 ~ 0.012	
		331-MP	●	0.614	3/8	3/16	1/64	11/64	0.012 ~ 0.079	0.003 ~ 0.008	
		332-MP	●	0.575	3/8	3/16	1/32	11/64	0.020 ~ 0.091	0.004 ~ 0.010	

● : Managed stock

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