

CN1500 / CN2500 CC1500 / CC2500

Coating



Cermet Solution for High Speed Steel Turning

The next generation cermet with higher wear and chipping resistance in high speed machining

■ **CN1500 / CN2500**

High Resistance to Chipping and Thermal Cracking /
Excellent Surface Finish

■ **CC1500 / CC2500**

High Resistance to Welding and Oxidation /
Excellent Surface Finish

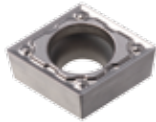


CN1500 / CN2500
CC1500 / CC2500

High Performance Cermet Grade for Machining Forged Steel and Sintered Ferrous Alloy



CN1500 For high speed and continuous cutting



CN2500 For high feed and interrupted cutting

Cermet tools are commonly applied when machining carbon steels. These applications frequently result in crater wear on the rake surface of insert and chipping caused by built-up edge.

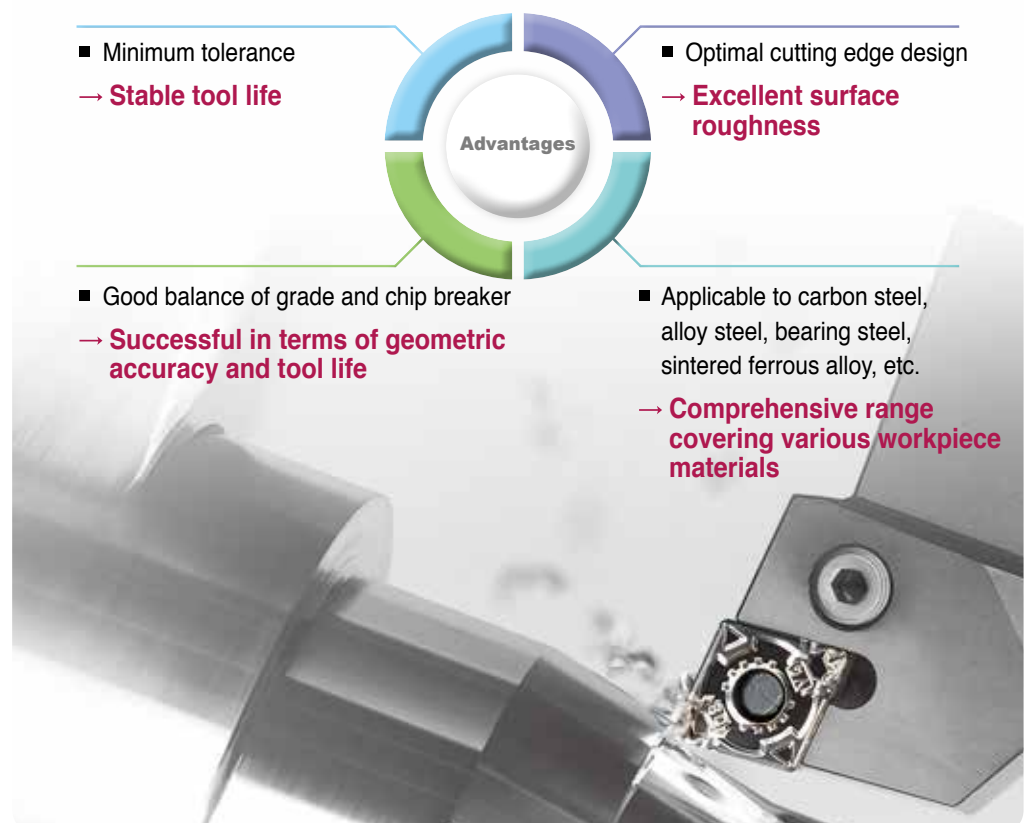
This occurs because carbon steel has a lower hardness than alloy steel and has a higher tensile strength, which often results in built-up edge.

This new P15 cermet grade, **CN1500**, was engineered to provide improved stability in turning applications at high speeds and when finishing. **Wear resistance and anti-chipping have been significantly improved and crater wear on the rake surface of insert is largely prevented in the continuous machining of carbon steel and alloy steel.** This can result in up to a 30% increase in tool life compared to conventional tools with test results that show a 1.6 times improvement in surface finish.

To expand on the excellent performance of CN1500 at high speed and continuous cutting of carbon steels, CN2500 was developed for machining various workpieces such as cold / hot forging steel and sintered ferrous materials.

This new **CN2500** grade has a specially sintered uniformed micro grain matrix **to improve stability even in the toughest machining conditions, like heavy interruptions, high feed, or severe vibrations.** Test results of surface roughness showed a 1.4 times improvement with CN2500.

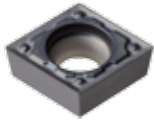
The next generation cermet series CN1500 / CN2500 will consistently produce successful result without compromise.



High Performance Coated Cermet Grade for Machining Carbon Steel, Alloy Steel and Sintered Ferrous Alloy



CC1500 For high speed and continuous cutting



CC2500 For high feed and interrupted cutting

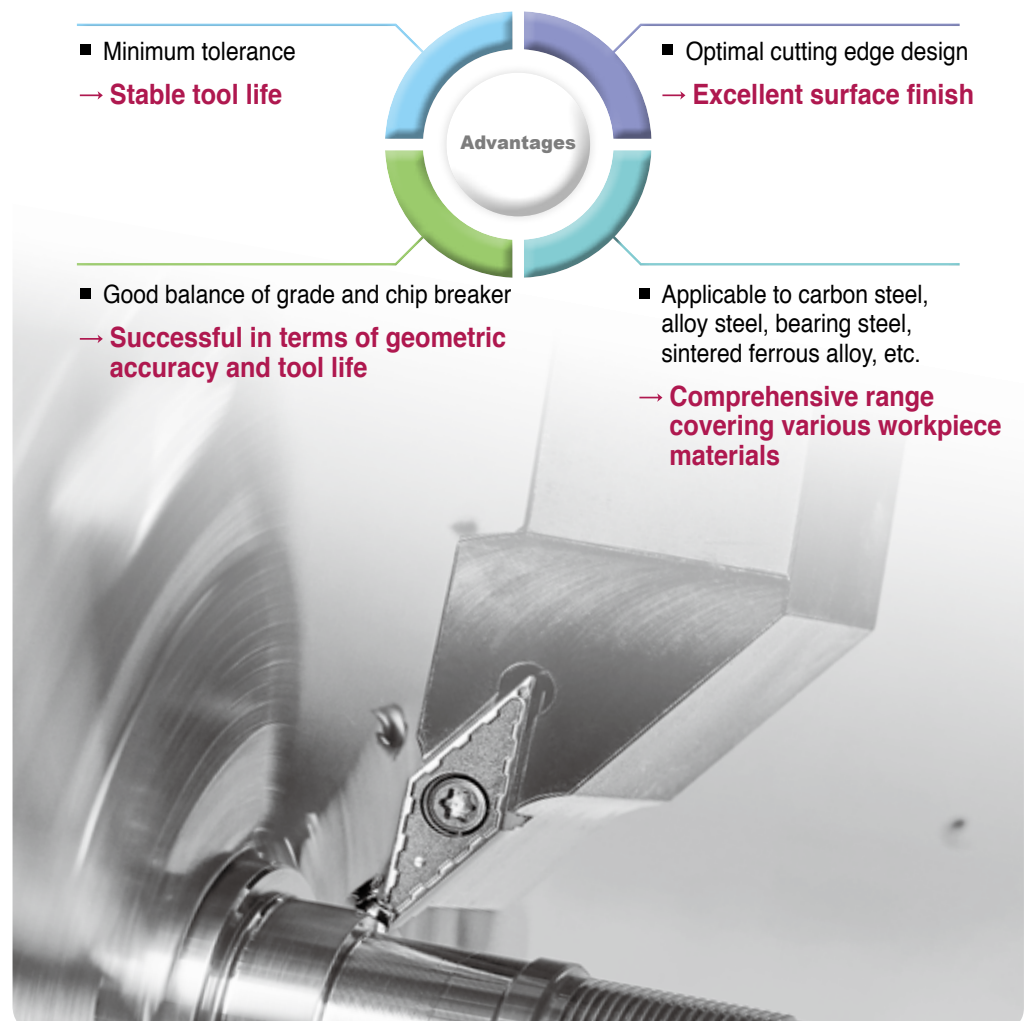
CC1500, the new P15 coated cermet grade, was engineered to provide improved stability in continuous turning applications at high speeds and low depths of cut. Wear resistance has been significantly improved and crater wear (Kt) on the rake surface of insert is largely prevented in the continuous machining of carbon steel and alloy steel.

Its highly lubricative coating layer shows excellent wear resistance and extended tool life.

To expand on the excellent performance of CC1500 at high speed and continuous cutting of a wide range of steels, CC2500 was developed for machining forged steels and sintered ferrous alloy at high feed and interrupted cutting.

CC2500, the new P25 coated cermet grade has a specially sintered uniformed micro grain matrix to improve stability even in the toughest machining conditions, like heavy interruptions, high feed or severe vibrations. A lubricative multi-layer coating results in largely prolonged tool life due to excellent wear resistance and toughness.

The next generation cermet series CC1500 / CC2500 will consistently produce successful result without compromise.



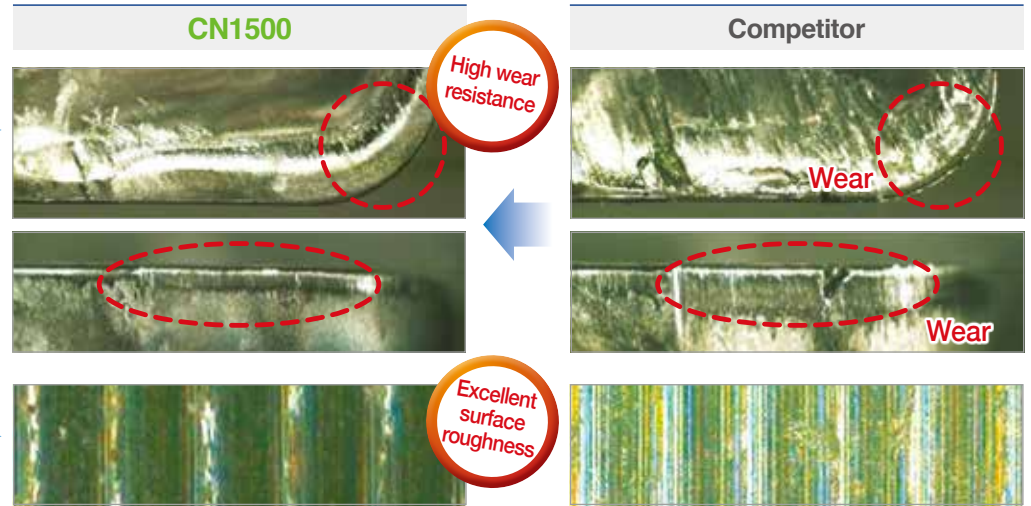
CN1500 (For high speed and continuous cutting) P

- Improved performance in finish & continuous machining of hot/cold forging steel and sintered ferrous alloy.
- Excellent wear resistance and crater resistance.
- Optimized cutting edge to improve surface finish.

Features

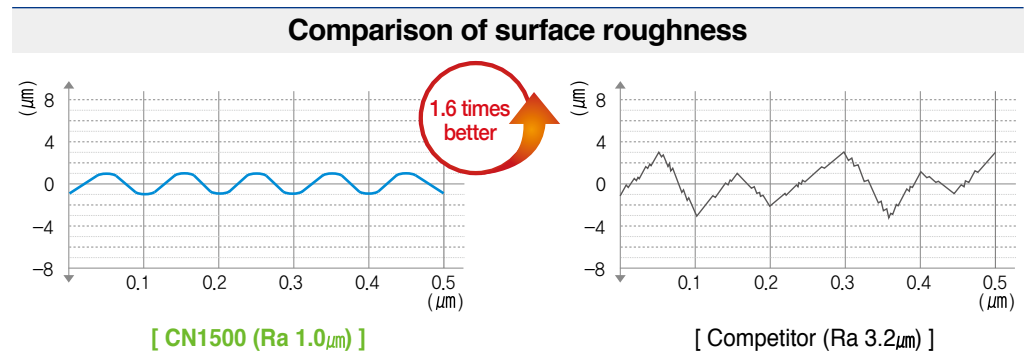
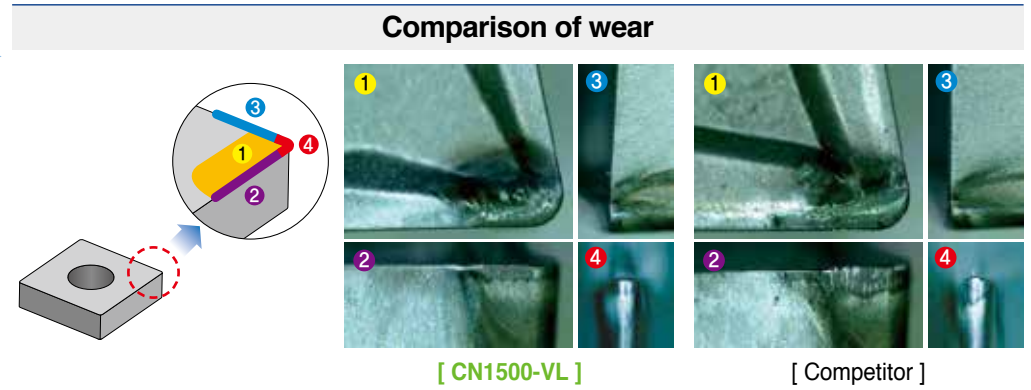
High wear resistance
 in high speed machining
 over $vc(m/min) = 250$
 (little secondary action
 on workpiece)

**Increased surface
 roughness** with optimal
 cutting edge geometries



Cutting Performance(Evaluation of impact resistance)

- **Workpiece** SM45C(KS), 1045(AISI), C45(ISO), $\varnothing = 100$ (Interrupted workpiece), L = 70
- **Cutting conditions** $vc(m/min) = 300$, $fn(mm/rev) = 0.13$, $ap(mm) = 0.5$, wet
- **Cutting time** After 15 minutes of machining, both the rake surface and major cutting edge of insert showed no excessive wear or other problem indicators.
- **Tools** Insert CCMT09T304-VL(CN1500) Holder S20R-SCLCL09



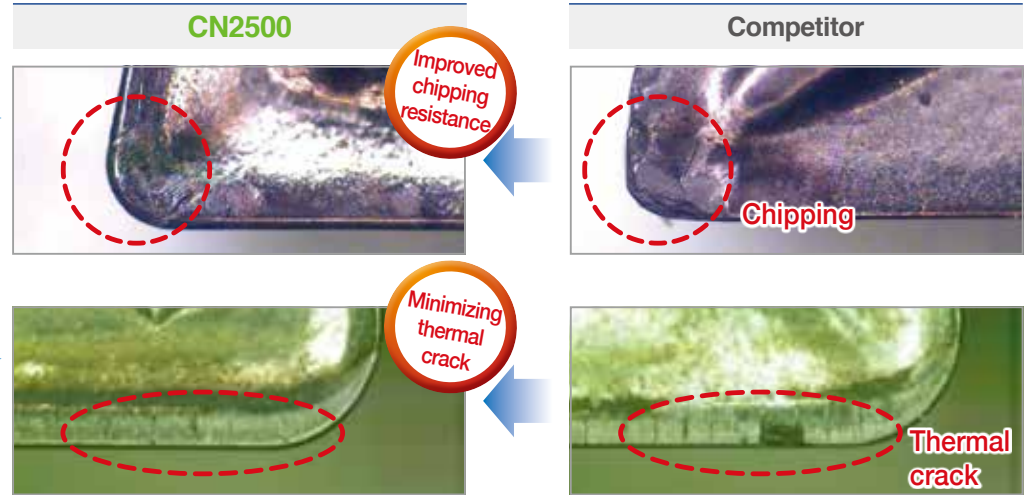
CN2500 (For high feed and interrupted cutting) P

- Improved performance in high feed and high interrupted machining of hot/cold forging steel and sintered ferrous alloy.
- Excellent anti-chipping, anti-fracture and thermal crack resistance.
- Optimized cutting edge to improve surface finish.

⇒ Features

High chipping resistance
in high feed machining
over $f_n(\text{mm/rev}) = 0.25$

Stability of cutting edge remains in high interrupted cutting



⇒ Cutting Performance (Evaluation of impact resistance)

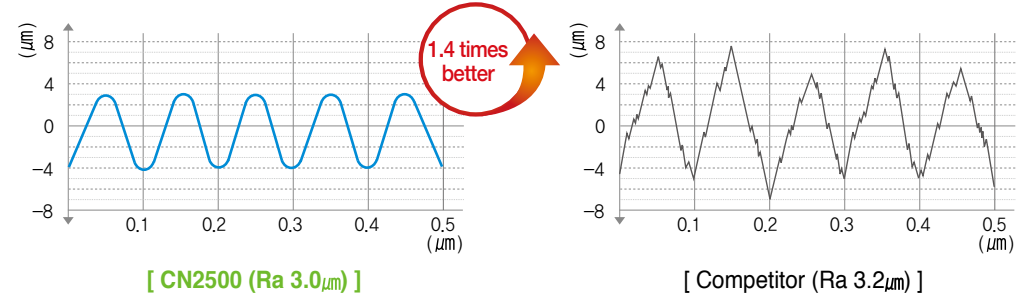
- **Workpiece** SCM440(KS), 4140(AISI), 42CrMoS4(ISO), $\varnothing = 100$ (Interrupted workpiece), $L = 70$
- **Cutting conditions** $v_c(\text{m/min}) = 280$, $f_n(\text{mm/rev}) = 0.25$, $a_p(\text{mm}) = 1.5$, wet
- **Cutting time** After 15 minutes of machining, both the rake surface and major cutting edge of insert showed no excessive wear or other problem indicators.
- **Tools** Insert CNMG120408-VQ(CN2500) Holder PCLNR2525-M12



Comparison of wear



Comparison of surface roughness



CC1500 (For high speed and continuous cutting) P

- Improved performance in finish & continuous machining of hot/cold forging steel and sintered ferrous alloy.
- Excellent wear resistance and crater resistance.
- Optimized cutting edge to improve surface finish.

⇒ Features

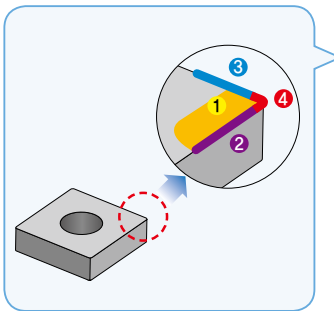
High wear resistance
 in high speed machining
 over $vc(m/min) = 300$
 (little secondary action
 on workpiece)

**Increased surface
 roughness** with optimal
 cutting edge geometries

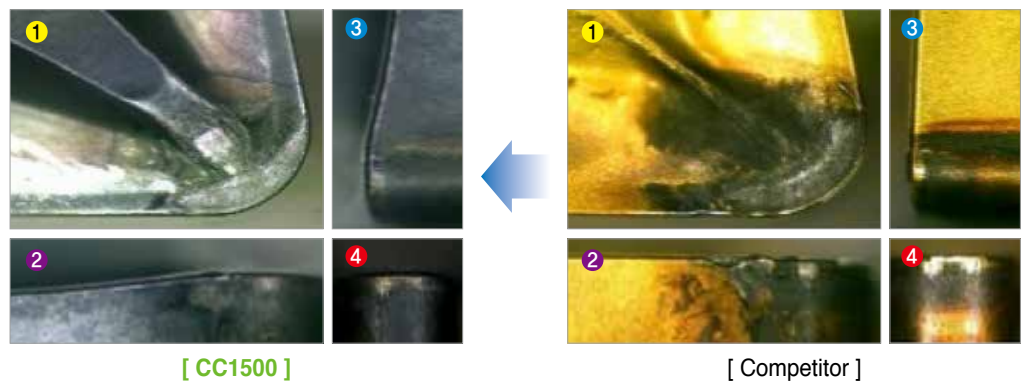


⇒ Cutting Performance (Evaluation of impact resistance)

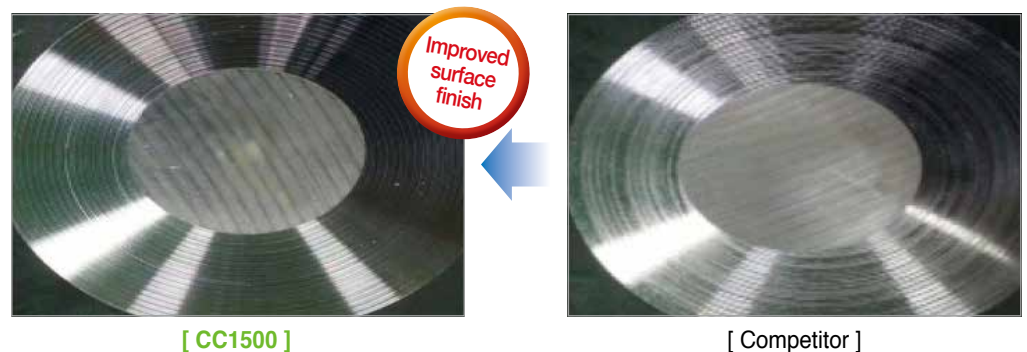
- **Workpiece** SM45C(KS), 1045(AISI), C45(ISO), $\varnothing=100$ (Interrupted workpiece), L=130
- **Cutting conditions** $vc(m/min) = 300$, $fn(mm/rev) = 0.25$, $ap(mm) = 2.0$, wet
- **Cutting time** After 2nd passes of 63mm, both the rake surface and major cutting edge of insert showed no excessive wear or other problem indicators.
- **Tools** Insert CNMG120408-GM(CC1500) Holder MCKNR/L2020-K12



Comparison of Wear



Comparison of Surface Roughness



CC2500 (For high feed and interrupted cutting) P

- Improved performance in high feed and high interrupted machining of hot/cold forging steel and sintered ferrous alloy.
- Excellent anti-chipping, anti-fracture and thermal crack resistance.
- Optimized cutting edge to improve surface finish.

Features

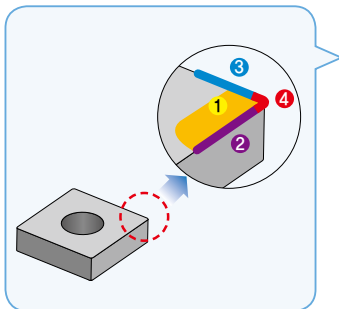
High chipping resistance
in high feed machining
over $f_n(\text{mm/rev}) = 0.25$

Stability of cutting edge remains in high interrupted cutting



Cutting Performance (Evaluation of impact resistance)

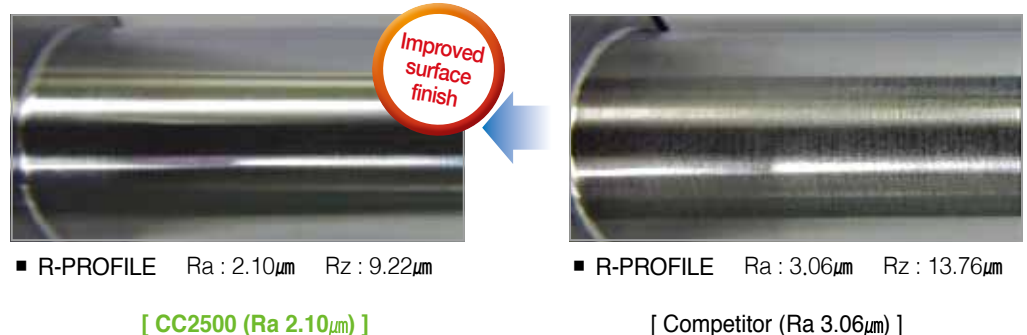
- **Workpiece** SCM435(KS), 4135(AISI), 34CrMo4(ISO), $\varnothing=100$ (Interrupted workpiece), L=130
- **Cutting conditions** $v_c(\text{m/min}) = 314$, $f_n(\text{mm/rev}) = 0.25$ $a_p(\text{mm}) = 1.5$, wet
- **Cutting time** After 10 minutes of machining, both the rake surface and major cutting edge of insert showed no excessive wear or other problem indicators.
- **Tools** Insert CNMG120408-GM(CC2500) Holder MCKNR/L2020-K12



Comparison of Wear



Comparison of Surface Roughness

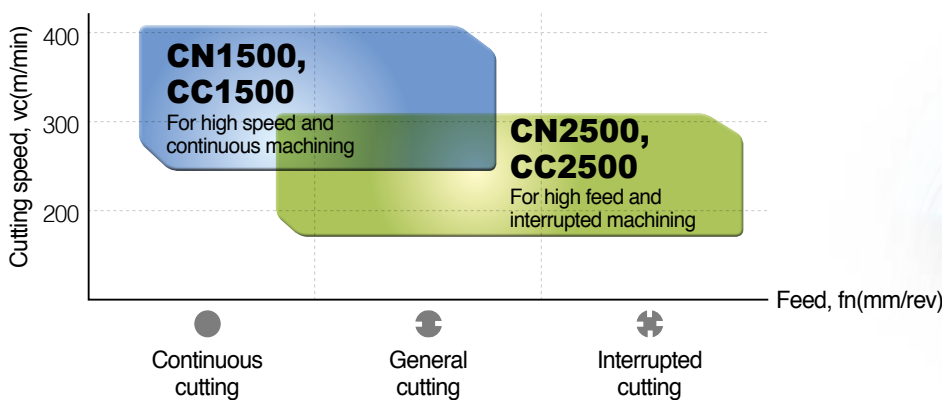


CN1500 / CN2500 CC1500 / CC2500

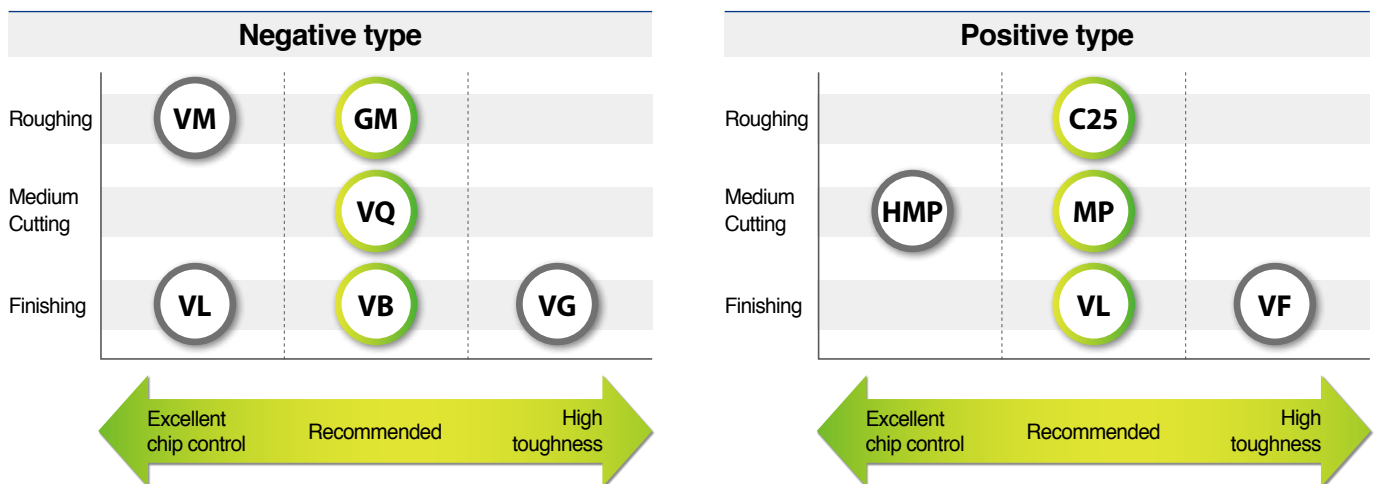
➤ Recommended Cutting Conditions

Division	Workpiece	Grade	Recommended cutting speed (m/min)	Grade	Recommended cutting speed (m/min)
Turning	C10 St44-2(DIN)	CN1500	150 < 270 < 400	CC1500	200 < 350 < 450
		CN2500	130 < 240 < 350	CC2500	180 < 290 < 400
	C45	CN1500	150 < 250 < 350	CC1500	200 < 300 < 400
		CN2500	130 < 220 < 300	CC2500	180 < 270 < 350
	42CrMo4 Sintered ferrous alloy	CN1500	120 < 220 < 300	CC1500	180 < 270 < 350
		CN2500	100 < 200 < 250	CC2500	150 < 250 < 300

➤ Grade Lineup




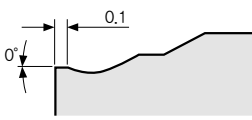
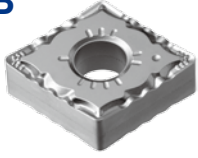
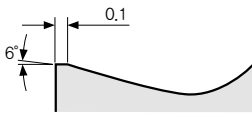
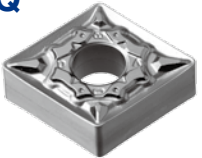
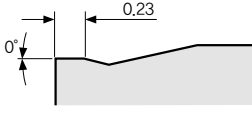
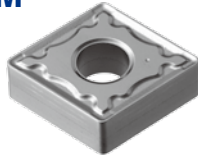
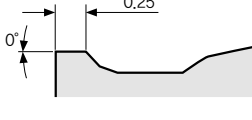

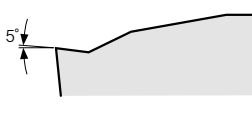
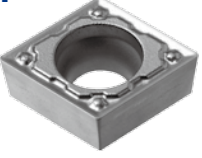

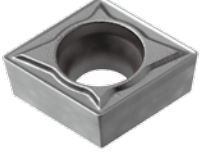
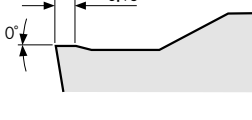
➤ Chip Breaker Lineup



➤ Grade Comparison Chart

KORLOY	Competitor A	Competitor B	Competitor C	Competitor D
CN1500	TN6010	CT3000	T1000A	NS520
CN2500	TN60, TN620	-	T1500A	NS530
CC1500	PV3010	PV7010	T1500Z	-
CC2500	PV3030	PV7020, PV90	T2000Z	KT315

⇒ Chip Breaker Features

Type	Chip breaker	Machining type	Cutting edge	Features
Negative type	VL 	Finishing		<ul style="list-style-type: none"> ■ Excellent chip control when machining tough materials such as low carbon steel, pipe, steel plate, etc. ■ Improved chip control at low depth of cut
	VB 	Finishing		<ul style="list-style-type: none"> ■ Universal chip breaker with strong chip control at low depth of cut ■ Excellent chip control on copying application and corner R machining
	VQ 	Medium cutting		<ul style="list-style-type: none"> ■ Improved chip control with optimized cutting edge design for medium to finish cutting
	GM 	Roughing		<ul style="list-style-type: none"> ■ Excellent for interrupted and high feed machining with strong cutting edge
Positive type	VL 	Finishing		<ul style="list-style-type: none"> ■ Improved chip control when machining low carbon steel, pipe, steel plate, etc.
	MP 	Medium cutting		<ul style="list-style-type: none"> ■ Special chip breaker geometry designed for various cutting conditions
	C25 	Roughing		<ul style="list-style-type: none"> ■ Strong cutting edge produces excellent cutting performance in interrupted cutting and cast iron machining

CN1500 / CN2500
CC1500 / CC2500

⇒ **Application Examples(CN1500)**



Carbon steel (C45)

- Cutting conditions $vc(m/min) = 200$, $n(rpm) = 1,800$, $fn(mm/rev) = 0.1$, $ap(mm) = 0.3$, wet
- Tools
 Insert CCMT09T304-HMP (CN1500)
 Holder SCLCR2020-K09

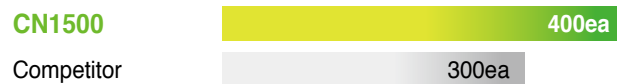


➔ **33% longer tool life than competitor's**

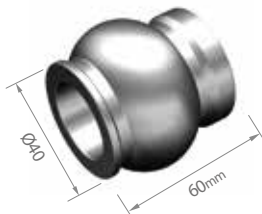


Carbon steel (C45)

- Cutting conditions $vc(m/min) = 300$, $n(rpm) = 2,200$, $fn(mm/rev) = 0.15$, $ap(mm) = 0.2$, wet
- Tools
 Insert TPMT110304-MP (CN1500)
 Holder S10M-STFPR-11



➔ **33% longer tool life than competitor's**

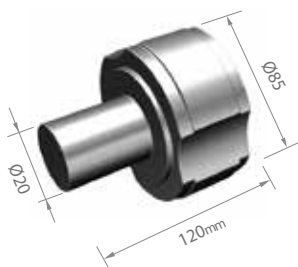


Carbon steel (C45)

- Cutting conditions $vc(m/min) = 250$, $n(rpm) = 2,500$, $fn(mm/rev) = 0.14$, $ap(mm) = 1.0$, wet
- Tools
 Insert VBMT160404-MP (CN1500)
 Holder SVABL2020-K16

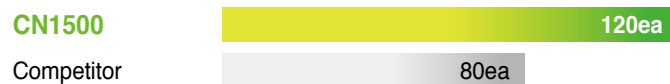


➔ **50% longer tool life than competitor's**



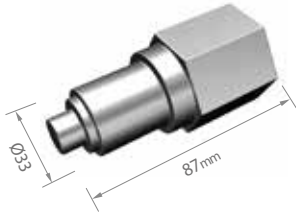
Carbon steel (C45)

- Cutting conditions $vc(m/min) = 270$, $n(rpm) = 1,500$, $fn(mm/rev) = 0.2$, $ap(mm) = 0.6$, wet
- Tools
 Insert DNMG150408-VM (CN1500)
 Holder MDJNR2525-M15



➔ **50% longer tool life than competitor's**

⇒ Application Examples(CN1500)



Alloy steel (25CrMo4)

- Cutting conditions $vc(m/min) = 230$, $n(rpm) = 2,000$, $fn(mm/rev) = 0.12$, $ap(mm) = 0.8$, wet
- Tools
 Insert TNMG160404-VQ (CN1500)
 Holder DTGNR3232-P16

CN1500	1,300ea
Competitor	830ea



➔ 57% longer tool life than competitor's



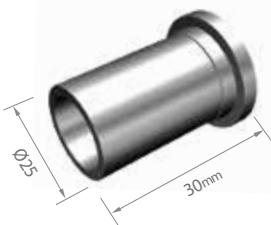
Alloy steel (42CrMo4)

- Cutting conditions $vc(m/min) = 223$, $n(rpm) = 2,100$, $fn(mm/rev) = 0.16$, $ap(mm) = 0.5$, wet
- Tools
 Insert WNMG080408-VL (CN1500)
 Holder PVLNR2525-M08

CN1500	720ea
Competitor	400ea



➔ 80% longer tool life than competitor's



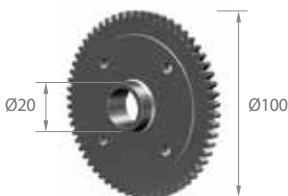
Bearing steel (B1)

- Cutting conditions $vc(m/min) = 200$, $n(rpm) = 2,500$, $fn(mm/rev) = 0.1$, $ap(mm) = 0.3$, wet
- Tools
 Insert DCMT11T302-VF (CN1500)
 Holder SDJCR2525-M11

CN1500	1,500ea
Competitor	1,150ea



➔ 30% longer tool life than competitor's



Sintered ferrous alloy

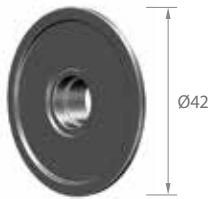
- Cutting conditions $vc(m/min) = 160$, $n(rpm) = 1,200$, $fn(mm/rev) = 0.17$, $ap(mm) = 0.2$, wet
- Tools
 Insert SNMG120408-VM (CN1500)
 Holder MSRNR2525-M12

CN1500	90ea
Competitor	60ea



➔ 50% longer tool life than competitor's

➔ **Application Examples(CN2500)**

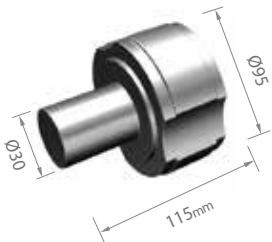


Alloy steel (20Cr4H)

- Cutting conditions $vc(m/min) = 200$, $n(rpm) = 2,000$, $fn(mm/rev) = 0.15$, $ap(mm) = 0.2$, wet
- Tools
 Insert DCMT11T304-HMP (CN2500)
 Holder SDJCR2525-M11



➔ **50% longer tool life than competitor's**

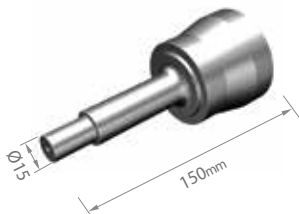


Carbon steel (C53)

- Cutting conditions $vc(m/min) = 250$, $n(rpm) = 2,500$, $fn(mm/rev) = 0.25$, $ap(mm) = 0.3$, wet
- Tools
 Insert CNMG120408-GM (CN2500)
 Holder PCLNR3232P-16

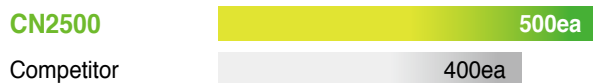


➔ **50% longer tool life than competitor's**



Carbon steel (C45)

- Cutting conditions $vc(m/min) = 300$, $n(rpm) = 2,800$, $fn(mm/rev) = 0.25$, $ap(mm) = 0.4$, wet
- Tools
 Insert CNMG120404-VB (CN2500)
 Holder PCLNR3232P-16

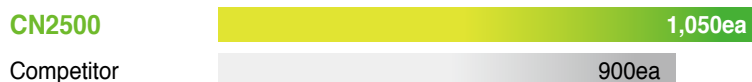


➔ **30% longer tool life than competitor's**



Carbon steel (C45)

- Cutting conditions $vc(m/min) = 185$, $n(rpm) = 2,300$, $fn(mm/rev) = 0.15$, $ap(mm) = 0.4$, wet
- Tools
 Insert CCMT09T304-MP (CN2500)
 Holder SCLCR2020-K09



➔ **17% longer tool life than competitor's**

⇒ Application Examples(CN2500)



Alloy steel (15CrMo4)

- Cutting conditions $vc(m/min) = 300$, $n(rpm) = 2,200$, $fn(mm/rev) = 0.25$, $ap(mm) = 0.3$, wet
- Tools
 Insert CNMG120408-GM (CN2500)
 Holder PCLNR2525-M12

CN2500

230ea

15% more

Competitor

200ea

➔ 15% longer tool life than competitor's



Carbon steel (C45)

- Cutting conditions $vc(m/min) = 230$, $n(rpm) = 2,000$, $fn(mm/rev) = 0.15$, $ap(mm) = 0.4$, wet
- Tools
 Insert CCMT09T304-MP (CN2500)
 Holder SCLCR2020-K09

CN2500

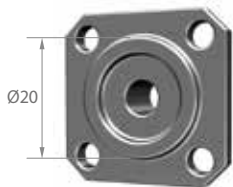
360ea

20% more

Competitor

300ea

➔ 20% longer tool life than competitor's



Sintered ferrous alloy

- Cutting conditions $vc(m/min) = 280$, $n(rpm) = 2,000$, $fn(mm/rev) = 0.2$, $ap(mm) = 0.2$, wet
- Tools
 Insert VBMT160404-MP (CN2500)
 Holder SVABL-2020-K16

CN2500

800ea

48% more

Competitor

540ea

➔ 48% longer tool life than competitor's



Alloy steel (20Cr4)

- Cutting conditions $vc(m/min) = 200$, $n(rpm) = 2,300$, $fn(mm/rev) = 0.2$, $ap(mm) = 0.3$, wet
- Tools
 Insert CCMT09T304-HMP (CN2500)
 Holder SCLCR2020-K09

CN2500

1,050ea

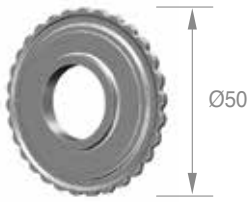
22% more

Competitor

900ea

➔ 22% longer tool life than competitor's

➔ **Application Examples (CC1500)**



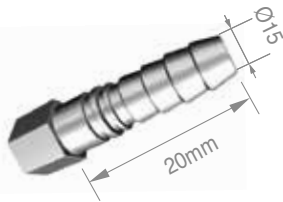
Alloy steel (42CrMo4)

- Workpiece Plate carrier
- Cutting conditions $vc(m/min) = 450$, $n(rpm) = 2,500$, $fn(mm/rev) = 0.2$, $ap(mm) = 0.2$, wet
- Tools Insert DCMT11T304-HMP (CC1500) Holder SDJCR2525-M11

CC1500	1,000ea
Competitor	700ea



➔ **45% longer tool life than competitor's**



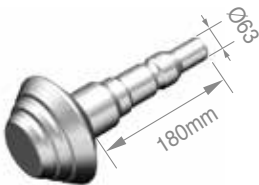
Carbon steel (C20)

- Workpiece Nipple
- Cutting conditions $vc(m/min) = 170$, $n(rpm) = 2,000$, $fn(mm/rev) = 0.12$, $ap(mm) = 0.12$, wet
- Tools Insert TPMT110304-MP (CC1500) Holder S20R-STWPR-11

CC1500	800ea
Competitor	600ea



➔ **30% longer tool life than competitor's**



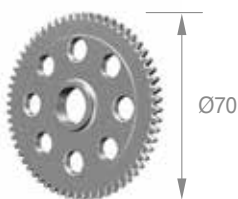
Alloy steel (18CrMo4)

- Workpiece Pinion
- Cutting conditions $vc(m/min) = 250$, $n(rpm) = 2,500$, $fn(mm/rev) = 0.2$, $ap(mm) = 0.5$, wet
- Tools Insert DNMG150604-VL (CC1500) Holder PDJNR2525-M15

CC1500	450ea
Competitor	350ea



➔ **30% longer tool life than competitor's**



Sintered ferrous metal

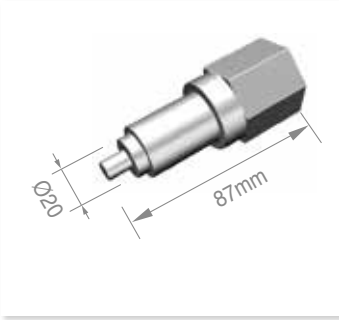
- Workpiece Gear
- Cutting conditions $vc(m/min) = 300$, $n(rpm) = 2,500$, $fn(mm/rev) = 0.3$, $ap(mm) = 0.4$, wet
- Tools Insert CCMT09T304-MP (CC1500) Holder SCLCR2020-K09

CC1500	600ea
Competitor	500ea



➔ **20% longer tool life than competitor's**

⇒ Application Examples (CC1500)



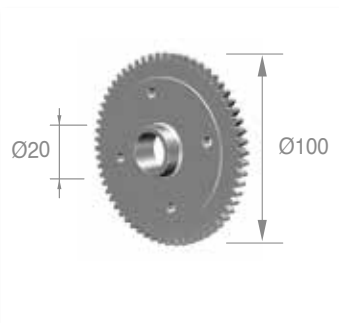
Alloy steel (25CrMo4)

- Workpiece Valve
- Cutting conditions $vc(m/min) = 230$, $n(rpm) = 2,200$, $fn(mm/rev) = 0.8$, $ap(mm) = 0.12$, wet
- Tools Insert TNMG160404-VQ (CC1500) Holder PTTNR1616-H16

CC1500	1,300ea
Competitor	830ea



➔ 60% longer tool life than competitor's



Sintered ferrous alloy

- Workpiece Sprocket
- Cutting conditions $vc(m/min) = 160$, $n(rpm) = 500$, $fn(mm/rev) = 0.17$, $ap(mm) = 0.2$, wet
- Tools Insert SNMG120408-VM (CC1500) Holder MSKNR3232-P12

CC1500	90ea
Competitor	60ea



➔ 50% longer tool life than competitor's



Carbon steel (C45)

- Workpiece Cup plate carrier
- Cutting conditions $vc(m/min) = 300$, $n(rpm) = 2,500$, $fn(mm/rev) = 0.3$, $ap(mm) = 0.4$, wet
- Tools Insert CCMT09T304-C25 (CC1500) Holder SCACR1212-F09

CC1500	60ea
Competitor	40ea



➔ 50% longer tool life than competitor's



Carbon steel (C45)

- Workpiece Bush
- Cutting conditions $vc(m/min) = 200$, $n(rpm) = 1,400$, $fn(mm/rev) = 0.1$, $ap(mm) = 0.3$, wet
- Tools Insert CCMT09T304-HMP (CC1500) Holder SCLCR2020-K09

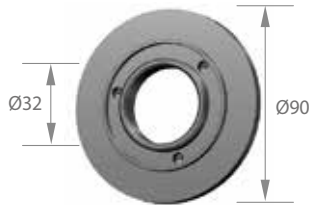
CC1500	600ea
Competitor	485ea



➔ 30% longer tool life than competitor's

CN1500 / CN2500
CC1500 / CC2500

⇒ **Application Examples (CC2500)**



Carbon steel (C45)

- Workpiece Swash-Plate
- Cutting conditions $vc(m/min) = 250$, $n(rpm) = 890$, $fn(mm/rev) = 0.06$, $ap(mm) = 0.1$, wet
- Tools Insert DNMG110404-VQ (CC2500) Holder SDJCR2525-M11

CC2500	200ea
Competitor	140ea



➔ **40% longer tool life than competitor's**



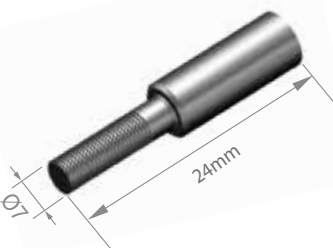
Ductile cast iron (600-3)

- Workpiece Diff. case
- Cutting conditions $vc(m/min) = 150$, $n(rpm) = 600$, $fn(mm/rev) = 0.15$, $ap(mm) = 0.3$, wet
- Tools Insert VBMT160404-MP (CC2500) Holder SVJBR2525-M16

CC2500	100ea
Competitor	70ea



➔ **40% longer tool life than competitor's**



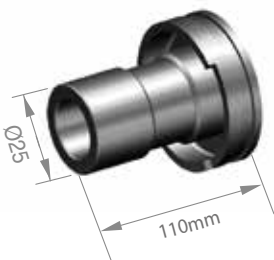
Carbon steel (C35)

- Workpiece Piston Rod
- Cutting conditions $vc(m/min) = 122$, $n(rpm) = 4,800$, $fn(mm/rev) = 0.15$, $ap(mm) = 2.0$, wet
- Tools Insert DNMG150604-GM (CC2500) Holder MDQNR2525-M15

CC2500	600ea
Competitor	400ea



➔ **30% longer tool life than competitor's**



Alloy steel (36Mn5)

- Workpiece SHAFT
- Cutting conditions $vc(m/min) = 206$, $n(rpm) = 800$, $fn(mm/rev) = 0.3$, $ap(mm) = 0.15$, wet
- Tools Insert TCMT090204-C25 (CC2500) Holder S10M-STFCR-09

CC2500	800ea
Competitor	600ea



➔ **30% longer tool life than competitor's**

⇒ Application Examples (CC2500)



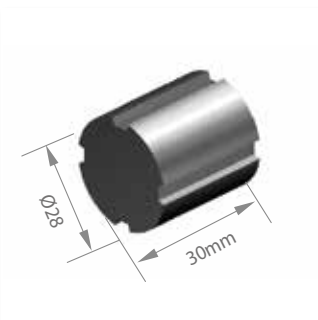
Alloy steel (18CrMo4)

- Workpiece Connecting Rod
- Cutting conditions $vc(m/min) = 340$, $n(rpm) = 2,100$, $fn(mm/rev) = 0.15$, $ap(mm) = 0.07$, wet
- Tools Insert TPMT110304-MP (CC2500) Holder S10M-STFPR-11

CC2500	1,820ea
Competitor	1,400ea

30%
more

➔ 30% longer tool life than competitor's



Alloy steel (15CrMo4)

- Workpiece Bush
- Cutting conditions $vc(m/min) = 314$, $n(rpm) = 3,500$, $fn(mm/rev) = 1$, $ap(mm) = 0.2$, wet
- Tools Insert CNMG120408-VQ (CC2500) Holder MCLNR2525-M12

CC2500	1,275ea
Competitor	850ea

50%
more

➔ 50% longer tool life than competitor's



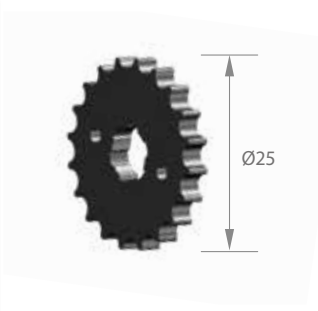
Alloy steel (36Mn5)

- Workpiece SHAFT
- Cutting conditions $vc(m/min) = 367$, $n(rpm) = 5,800$, $fn(mm/rev) = 0.02$, $ap(mm) = 1.55$, wet
- Tools Insert TBT4405R-D38-R0.25 (CC2500) Holder TGTER25-4-47

CC2500	1,000ea
Competitor	600ea

65%
more

➔ 65% longer tool life than competitor's



Alloy Steel (18CrMo4)

- Workpiece Sprocket
- Cutting conditions $vc(m/min) = 340$, $n(rpm) = 4,300$, $fn(mm/rev) = 0.15$, $ap(mm) = 0.07$, wet
- Tools Insert TPMT110304-MP (CC2500) Holder STFPR-11




CC2500	1,820ea
Competitor	1,400ea



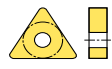
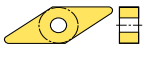

30%
more

➔ 30% longer tool life than competitor's




CN1500 / CN2500
CC1500 / CC2500







➔ Available Stock (Negative type)

Insert shape	Designation	Machining type	Stock				
			CN1500	CN2500	CC1500	CC2500	
	CNMG	Finishing	120404-VB	●	●	●	●
			120408-VB	●	●	●	●
			120404-VG	●			
			120408-VG	●			
			120404-VL	●	●		
			120408-VL	●	●		
		Medium to finish cutting	120404-VQ	●	●	●	●
			120408-VQ	●	●	●	●
			120404-GM		●		
		Medium cutting	120408-GM	●	●		
			120404-VM	●	●		
			120408-VM	●	●		
		Medium to rough cutting	120404-B25	●	●		
			120408-B25	●	●		
			120412-B25		●		
	DNMG	Finishing	150404-VB	●	●	●	●
			150408-VB	●	●	●	●
			150604-VB	●	●	●	●
			150608-VB	●	●	●	●
			150604-VG	●			
			150608-VG	●			
			150604-VL	●			
			150608-VL	●			
		Medium to finish cutting	110404-VQ	●			
			150404-VQ	●	●	●	●
			150408-VQ	●	●	●	●
			150604-VQ	●	●	●	●
		Medium cutting	150608-VQ	●	●	●	●
			150408-GM	●	●		
			150604-GM		●		
			150404-VM	●			
			150408-VM	●	●		
			150604-VM	●	●		
			150608-VM	●			
		Medium to rough cutting	150404-B25		●		
			150408-B25		●		
150604-B25	●						
150608-B25	●						
	SNMG	Finishing	120404-VB	●		●	●
			120408-VB	●	●	●	●
		Medium to finish cutting	120404-VQ	●	●		
			120408-VQ	●	●		
		Medium cutting	120408-GM	●			
			120404-VM	●			
			120408-VM	●			
			120404-B25	●	●		
			120408-B25	●	●		
			120412-B25		●		

Insert shape	Designation	Machining type	Stock					
			CN1500	CN2500	CC1500	CC2500		
	TNGG	Medium cutting	160404L	●				
			160404R	●				
	TNMG	Finishing	160404-VB	●	●	●	●	
			160408-VB	●	●	●	●	
			110304-VF	●				
			160404-VF	●				
			160404-VG	●				
			160408-VG	●				
			160404-VL	●				
			160408-VL	●				
			Medium to finish cutting	160404-VQ	●	●	●	●
				160408-VQ	●	●	●	●
		160404-GM			●			
		Medium cutting	160408-GM		●			
			160404-VM	●				
			160408-VM	●	●			
			160412-VM	●				
		Medium to rough cutting	160404-B25	●	●			
			160408-B25	●	●			
160412-B25			●					
	TNMX	Medium to rough cutting	160402R		●			
			-					
	VNMG	Finishing	160404-VB	●	●	●	●	
			160408-VB	●	●	●	●	
			160404-VF	●				
			160408-VF	●				
			160404-VG	●				
			160408-VG	●				
			160404-VL	●	●			
			160408-VL	●	●			
		Medium to finish cutting	160404-VC	●		●		
			160408-VC	●				
			160404-VQ	●	●	●	●	
		Medium cutting	160408-VQ	●	●	●	●	
			160404-GM	●	●			
			160408-GM	●	●			
Medium to rough cutting	160404-VM	●						
	160408-VM	●						
	WNMG	Finishing	080404-VG	●				
			080408-VG	●				
		Medium to finish cutting	080404-VQ	●	●	●	●	
			080408-VQ	●	●	●	●	

➔ Available Stock (Positive type)

Insert shape	Designation	Machining type	Stock				
			CN1500	CN2500	CC1500	CC2500	
	CCMT	Finishing	060204-VF	●	●		
			09T304-VF	●	●		
			09T308-VF		●		
			060204-VL	●	●	●	●
			09T304-VL	●	●	●	●
			09T308-VL	●	●	●	●
		Medium to finish cutting	060202-HMP	●			
			060204-HMP	●	●		
			09T304-HMP	●	●		
			09T308-HMP	●	●		
			060202-C25	●	●	●	●
			060204-C25	●	●	●	●
		Medium cutting	060208-C25	●	●	●	●
			09T304-C25	●	●	●	●
			09T308-C25	●	●	●	●
			120408-C25	●	●	●	●
			060202-MP	●	●	●	●
			060204-MP	●	●	●	●
			09T302-MP	●	●	●	●
			09T304-MP	●	●	●	●
09T308-MP	●		●	●	●		
	CPGT		Finishing	080204	●		
		090304		●			
	DCMT	Finishing	070202-VF		●		
			070204-VF		●		
			11T302-VF	●			
			11T304-VF	●	●		
			11T308-VF	●	●		
			070204-VL	●	●	●	●
		Medium to finish cutting	11T304-VL	●	●	●	●
			11T308-VL	●	●	●	●
			070202-HMP	●	●		
			070204-HMP	●	●		
			11T304-HMP	●	●		
			11T308-HMP	●	●		
		Medium cutting	070202-C25	●	●	●	●
			070204-C25	●	●	●	●
			070208-C25	●	●	●	●
			11T302-C25	●	●	●	●
			11T304-C25	●	●	●	●
			11T308-C25	●	●	●	●
			070202-MP	●	●	●	●
			070204-MP	●	●	●	●
070208-MP	●		●	●	●		

Insert shape	Designation	Machining type	Stock						
			CN1500	CN2500	CC1500	CC2500			
	DCMT	Medium cutting	11T302-MP	●	●	●	●		
			11T304-MP	●	●	●	●		
			11T308-MP	●	●	●	●		
	SCMT	Finishing	09T304-VL	●	●	●	●		
			09T308-VL	●	●	●	●		
		Medium to finish cutting	09T304-HMP	●					
			09T308-HMP	●					
		Medium cutting	09T304-C25	●	●	●	●		
			09T308-C25	●	●	●	●		
			120404-C25	●	●	●	●		
			120408-C25	●	●	●	●		
			SPGA	Medium to finish cutting	090308T	●			
					-				
	TCMT	Finishing	16T304-VL	●	●	●	●		
			16T308-VL	●	●	●	●		
		Medium cutting	110204-B25	●					
			090204-C25	●	●	●	●		
			090208-C25	●	●	●	●		
			110202-C25	●	●	●	●		
			110204-C25	●	●	●	●		
			110208-C25	●	●	●	●		
			16T304-C25	●	●	●	●		
			16T308-C25	●	●	●	●		
			16T304-MP	●	●	●	●		
			16T308-MP	●	●	●	●		
				TPGH	Medium to finish cutting	080204L	●		
110304L	●								
090204L		●							
Finishing	TPMT	110304-VL				●	●	●	●
		110304-VQ	●						
		110304-MP	●	●	●	●			
		110304-VM	●						
	VBMT	Finishing	160404-VB	●	●				
			160408-VB	●	●				
			160404-VF	●	●				
			160408-VF	●	●				
			160404-VL	●	●	●	●		
			160408-VL	●	●	●	●		
		Medium cutting	160404-MP	●	●	●			
			160408-MP	●	●	●	●		
			160412-MP	●	●				

※ Managed items are constantly expanded at the moment.



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