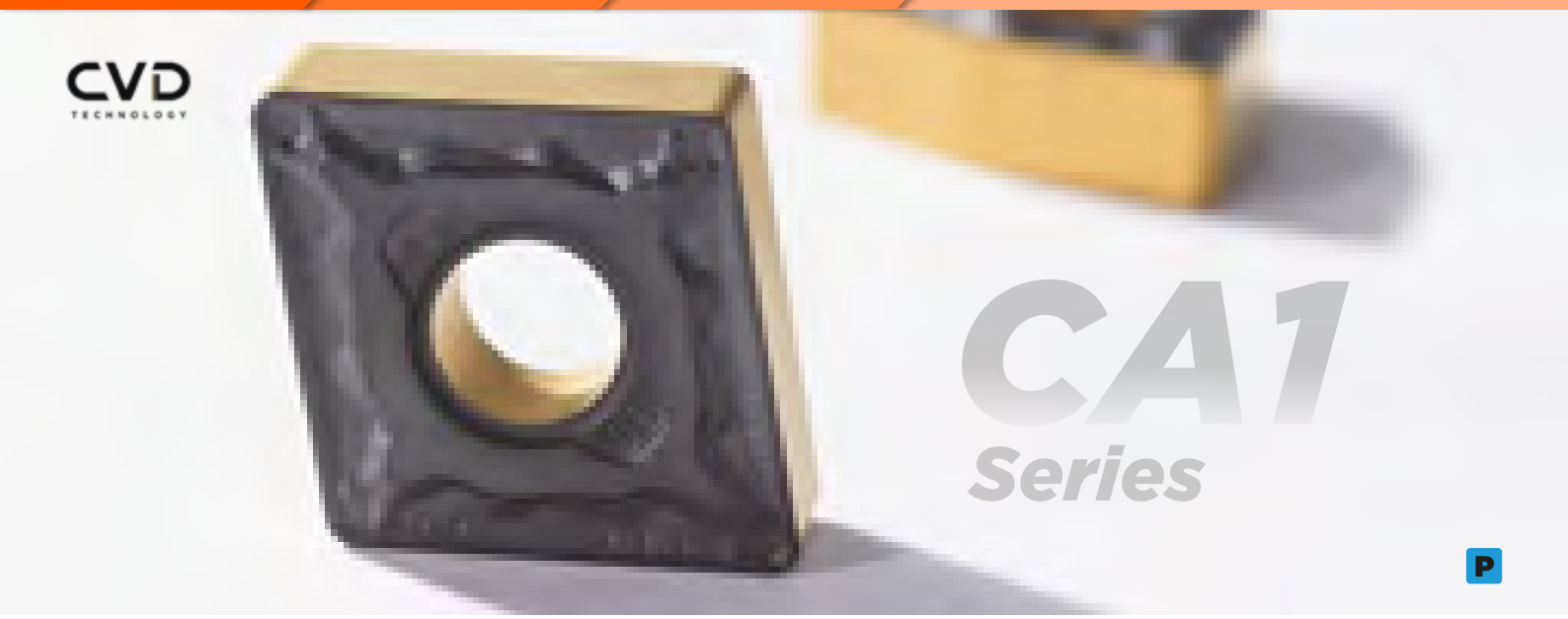
TOOL TRADER® EUROPE

ADVANCED CUTTING SOLUTIONS

CUTTING TOOLS › TURNING › TURNING GRADE



KYOCERA

30 INSERTS + 10 FREE

WINTER PROMOTION

CA115P/CA125P

NEW CVD CARBIDE GRADE FOR STEEL

This new coating and carbide substrate provide excellent wear and fracture resistance, and has even longer tool life for a wide range of machining applications.

Purchase 30 inserts and receive 10 inserts of the same grade free of charge!

ORDER NOW

General conditions

- The promotion is valid from October 2nd 2024 until March 27th 2025.
- Different chipbreakers can be mixed to reach the required insert quantity.
- Orders on schedule, combination with other special offer, cancellation, exchange and return cannot be accepted.
- Errors excepted, with reservation subject to change.

TOOL MANAGEMENT • TOOLING SYSTEMS • CUTTING TOOLS • CLAMPING SYSTEMS

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KYOCERA

New CVD coated carbide grade for steel | CA115P CA125P

CA115P/CA125P

NEW

Longer tool life in various steel machining environments

New coating and carbide substrate provide excellent wear and fracture resistance

Longer tool life for a wide range of machining applications
Introducing PMG chipbreaker for medium-roughing

CA115P

Releasing June 2023

Continuous to light interrupted machining
Highly-efficient machining

CA125P

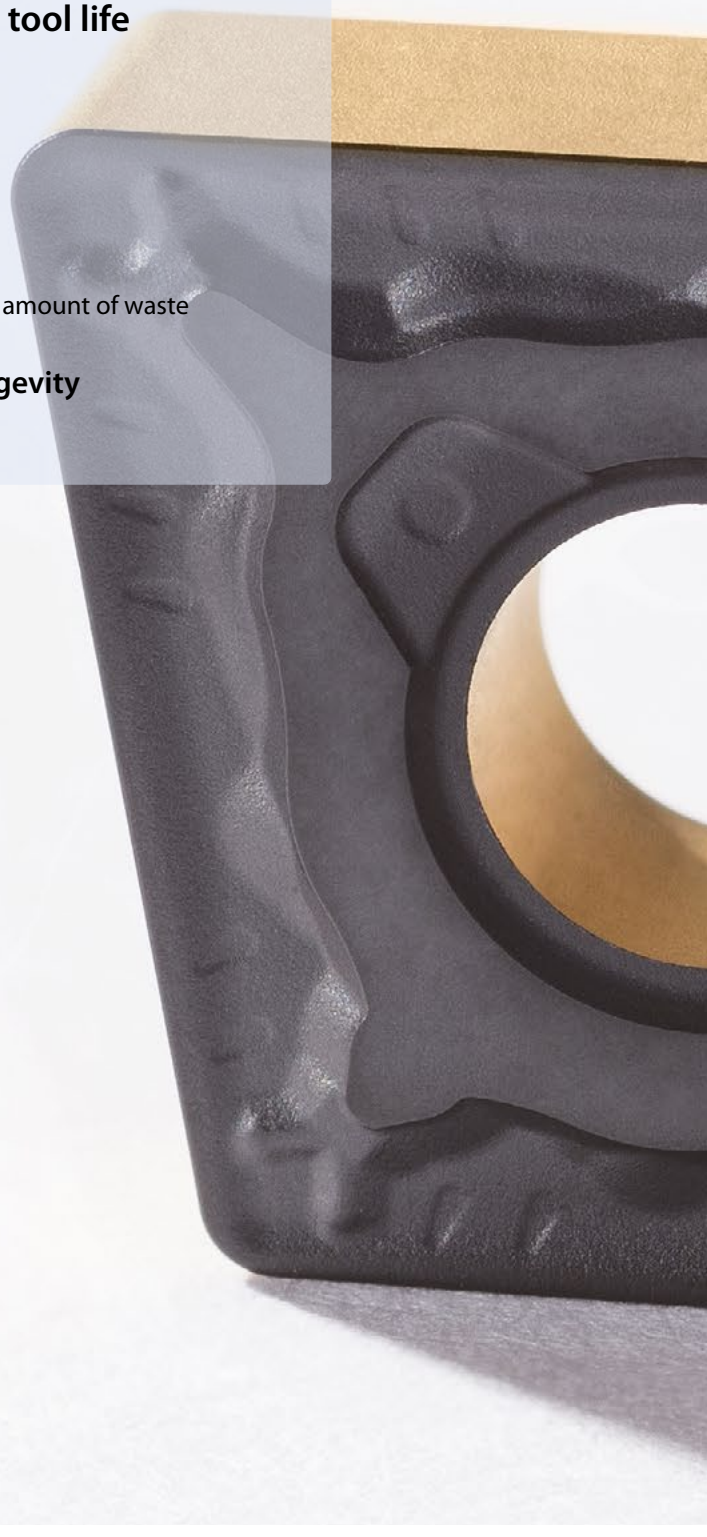
Continuous to heavy interrupted machining
General purpose

Visit us on LinkedIn

New CVD coated carbide grade for steel

CA115P/CA125P

The new standard for steel machining
Longer tool life in a wide range of machining environments
Expanded lineup of chipbreakers for steel machining in various applications



CA115P/CA125P drastically extends tool life

- Cost savings
- Reduced downtime
- Reduced inventory needed on hand
- Consistent machining quality
- Line automation and labor savings
- Promotes a carbon neutral society by reducing the amount of waste

Advancing technologies improve tool longevity

Advanced technology

New coating & New carbide substrate

CVD TECHNOLOGY

Black & Gold

Excellent wear and fracture resistance

Innovative layering technology

Ultra-uniform alumina layering

Proprietary crystal forming technology

Achieving significant crystal growth uniformity and direction

Reduces crater wear and extends tool life

New development

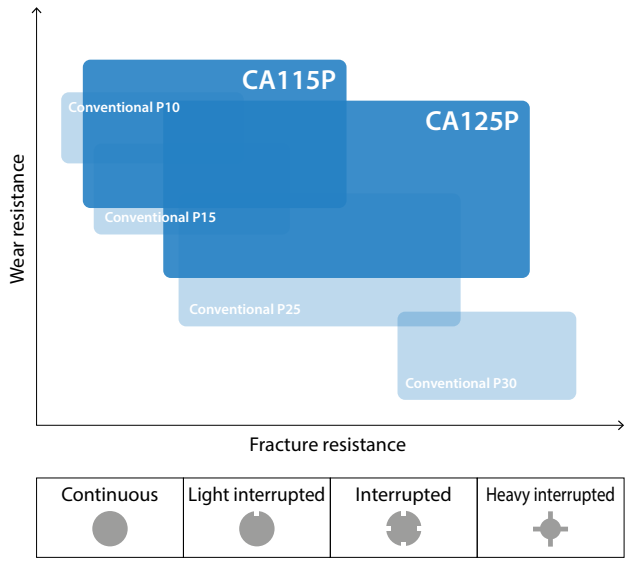
PMG Chipbreaker for medium-roughing

Unique design covers a wide range of machining applications

Maintains excellent chip control

1 Extended tool life in a wide variety of applications

Application map



CA115P

Releasing June 2023

Continuous-light interrupted machining of steel

For high-efficient machining
with wear and chipping resistance

CA125P

Continuous-heavy interrupted steel machining

First recommendation for steel machining
High versatility

Solution

Long tool life in various machining environments from roughing to finishing

1 Shaft S43C

Good
Edge condition

CA125P maintained stability and achieved less wear than competitor A.

Edge condition

CA125P

Competitor A

Cutting conditions :
Vc = 200 m/min, ap = 0,5 mm
f = 0,3 mm/rev, Wet DNMG150408PP
Tool life : 150 pcs/corner

(User evaluation)

2 Sleeve HMM45

Tool life
2x

CA115P provides 2 times longer tool life than competitor B and maintained better edge wear.

Number of parts

CA115P **200 pcs/corner**

Competitor B **100 pcs/corner**

Cutting conditions :
Vc = 210 m/min, ap = 0,5 mm
f = 0,35 mm/rev, Wet DNMG150408PQ

(User evaluation)

3 Automotive parts SCM420H

Good
Edge condition

CA125P provides stable machining without chipping even after reaching the end of estimated tool life.

Edge condition

CA125P

Competitor C

Cutting conditions :
Vc = 160 m/min, ap = 1.0 mm
f = 0.32 mm/rev, Wet CNMG120412PG
Tool life : 100 pcs/corner

(User evaluation)

4 Automotive parts Non-tempered steel

Tool life
1.4x

CA125P shows 1.4 times longer tool life than competitor D.

Number of parts

CA125P **80 pcs/corner**

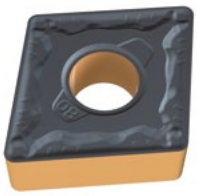
Competitor D **55 pcs/corner**

Cutting conditions :
Vc = 160 m/min, ap = 0.2 mm
f = 0.32 mm/rev, Wet CNMG120408PG

(User evaluation)

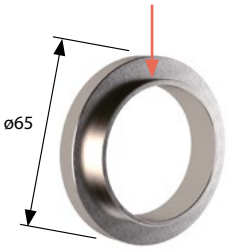
Solution

New PMG chipbreaker provides up to 4 times longer tool life



5 Nut S45C

Tool life 4x



CA115P provides 4 times longer tool life than competitor E. The amount of wear after machining is also comparable.

Number of parts

CA115P **1,440 pcs/corner**

Competitor E **360 pcs/corner**

Cutting conditions :
Vc = 190 m/min, ap = 1.3 mm
f = 0.2 mm/rev, Wet CNMG120408PMG

(User evaluation)

6 Gear S35C

Tool life 2x

CA125P shows 2 times longer tool life than competitor F for stable machining even in interrupted machining sections.

Number of parts

CA125P **200 pcs/corner**

Competitor F **100 pcs/corner**

Cutting conditions :
Vc = 260 m/min, ap = 1.5 mm
f = 0.3 mm/rev, Wet CNMG120412PMG

(User evaluation)

7 Bearing SCM415

Good Edge condition

CA125P maintained machining without fractures compared to competitor G, which was damaged frequently during machining.

Edge condition

CA125P | Competitor G

Cutting conditions :
Vc = 270 m/min, ap = 1.3 mm
f = 0.25 mm/rev, Wet WNMG080408PMG
Tool life : 300 pcs/corner

(User evaluation)

8 Yoke S45C

Tool life 2x

CA125P shows 2 times longer tool life than competitor H.

Number of parts

CA125P **100 pcs/corner**

Competitor H **50 pcs/corner**

Cutting conditions :
Vc = 160 m/min, ap = 1.0 mm
f = 0.37 mm/rev, Wet WNMG080408PMG

(User evaluation)

9 Bolt SCM440H

Good Edge condition

CA125P has better chipping resistance against competitor I.

Edge condition

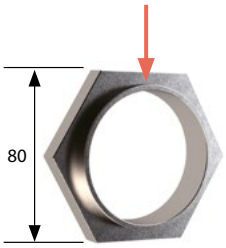
CA125P | Competitor I

Cutting conditions :
Vc = 200 m/min, ap = 2.0 mm
f = 0.3 mm/rev, Wet TNMG160408PMG
Tool life : 130 pcs/corner

(User evaluation)

10 Nut S45C

Tool life 2x



CA125P shows 2 times longer tool life than competitor J due to improved wear resistance.

Number of parts

CA125P **720 pcs/corner**

Competitor J **360 pcs/corner**

Cutting conditions :
Vc = 200 m/min, ap = 2.2 mm
f = 0.2 mm/rev, Wet WNMG080408PMG

(User evaluation)

2 Newly developed proprietary coating and carbide substrate with superior wear and fracture resistance.

Optimized coating properties on rake and flank faces provides wear resistance and fracture resistance

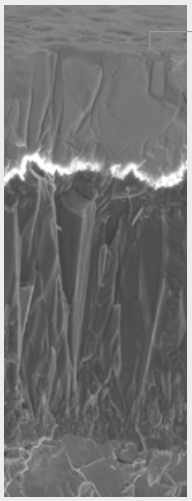
The industry's most uniform alumina film* reduces crater wear

*March 2023, by Kyocera research

Black & Gold

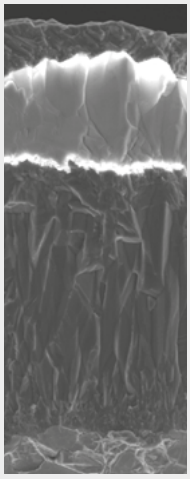
Rake face
Suppresses crater wear and fracturing

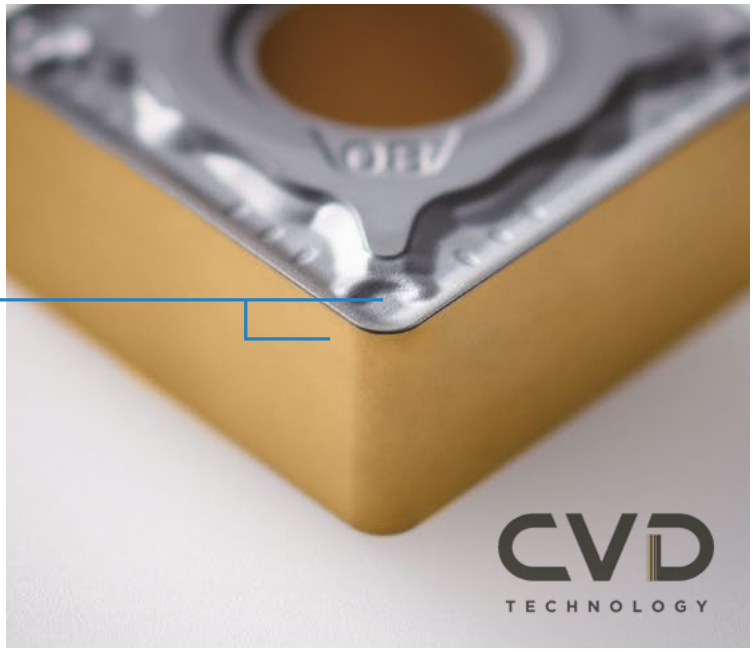
- New surface treatment technology improves fracture resistance
- Highly uniform alumina layer reduces wear



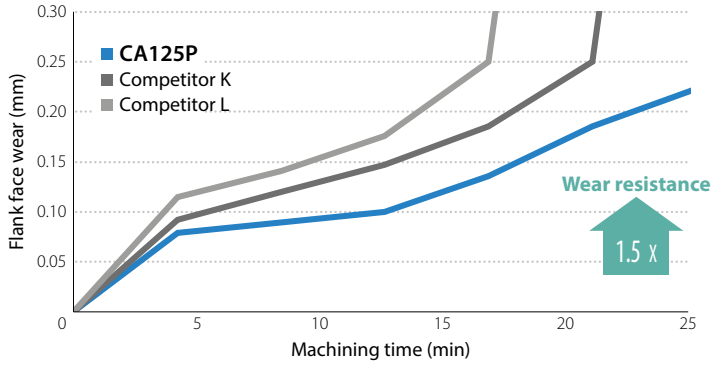
Flank face
Improved wear resistance

- High hardness surface layer suppresses abrasion
- Uniform alumina layer reduces wear
- Easy to see edge defects with golden surface



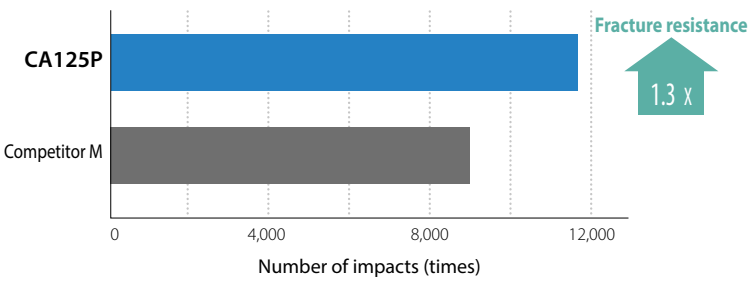


Wear resistance comparison (Internal evaluation)



Cutting conditions : Vc = 300 m/min, ap = 1.5 mm, f = 0.3 mm/rev, Wet Workpiece : SCM435

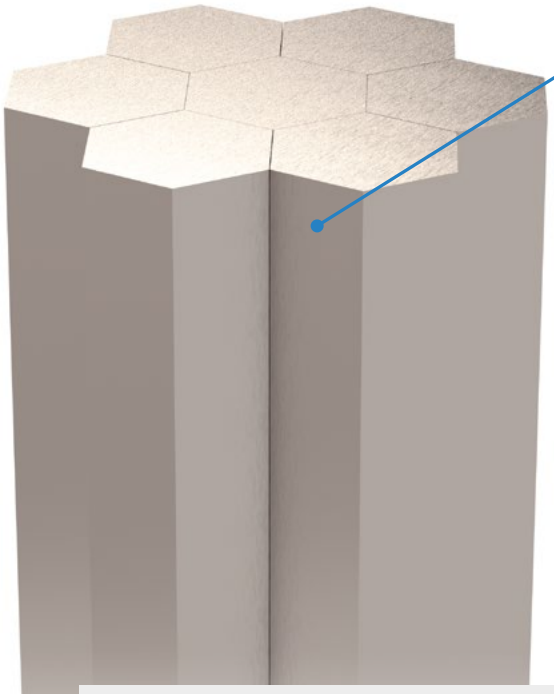
Fracture resistance comparison (Internal evaluation) Interrupted machining n = 3 mean



Cutting conditions : Vc = 300 m/min, ap = 1.5 mm, f = 0.35 mm/rev, Wet
Workpiece : S45C (4 grooves)

Highly uniform alumina layer

Excellent wear resistance due to the most uniform crystal orientation in the industry. *



Alumina film crystal structure (CG image)

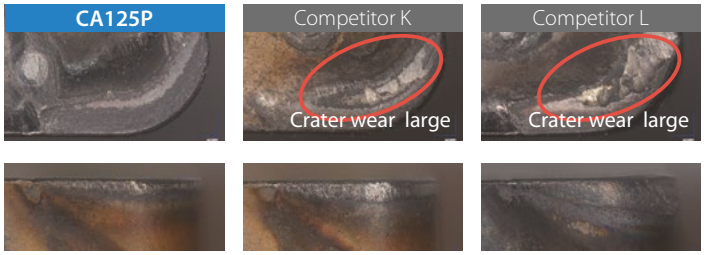
Uniform crystal orientation

New crystal control technology provides industry-leading Al_2O_3 orientation

Comparison of cutting edge conditions (Internal evaluation)
After machining for 16.9 minutes

Improved wear resistance

Reduces crater wear and external abrasion caused by chip scraping

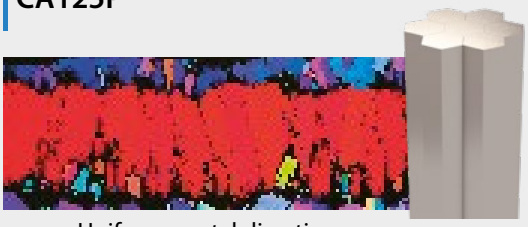


Cutting conditions : Vc = 300 m/min, ap = 1.5 mm, f = 0.3 mm/rev, Wet
Workpiece : SCM435

*March 2023, by Kyocera research

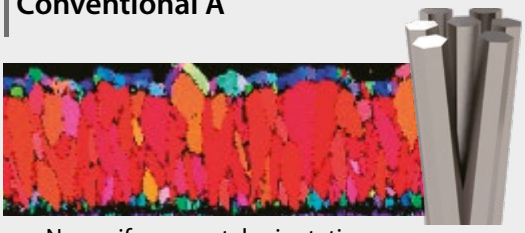
Crystal orientation analysis (EBSD pattern) A higher percentage of red indicates a more uniform growth pattern

CA125P



Uniform crystal direction (CG image)

Conventional A



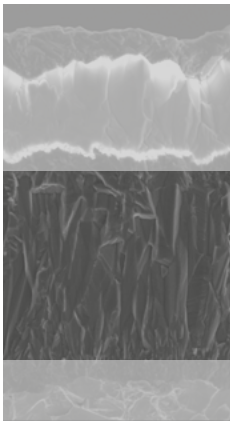
Nonuniform crystal orientation (CG image)

Unique TiCN layer

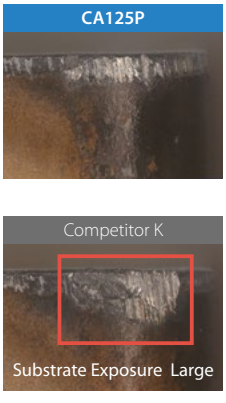
Proper TiCN particle size with proprietary crystal control technology

Greatly improved chipping resistance

TiCN layer (CA125P)



Edge condition comparison
(Internal evaluation)
After machining 70 mm

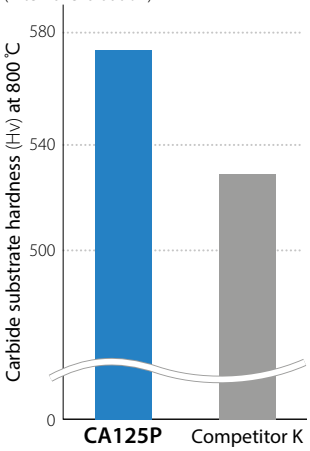


Cutting conditions : Vc = 250 m/min
ap = 1.0 mm, f = 0.4 mm/rev
L = 1.0 mm, Wet, Workpiece : SUJ2

New carbide substrate

Improved resistance to plastic deformation with an increased temperature strength

Comparison of carbide substrate hardness
(Internal evaluation)



Edge condition comparison
(Internal evaluation)

Cutting conditions : Vc = 300 m/min
ap = 1.0 mm, f = 0.4 mm/rev
Dry, Workpiece : SCM435

3 A large variety of chipbreakers cover a wide range of machining applications and conditions

New lineup with expanded PMG chipbreakers for medium machining to roughing
Covers a wide area from finishing to roughing

Negative type

Smart chipbreaker P series for steel machining

PP
For finishing
Low resistance

PQ
For finishing-medium
Sharpness and strength

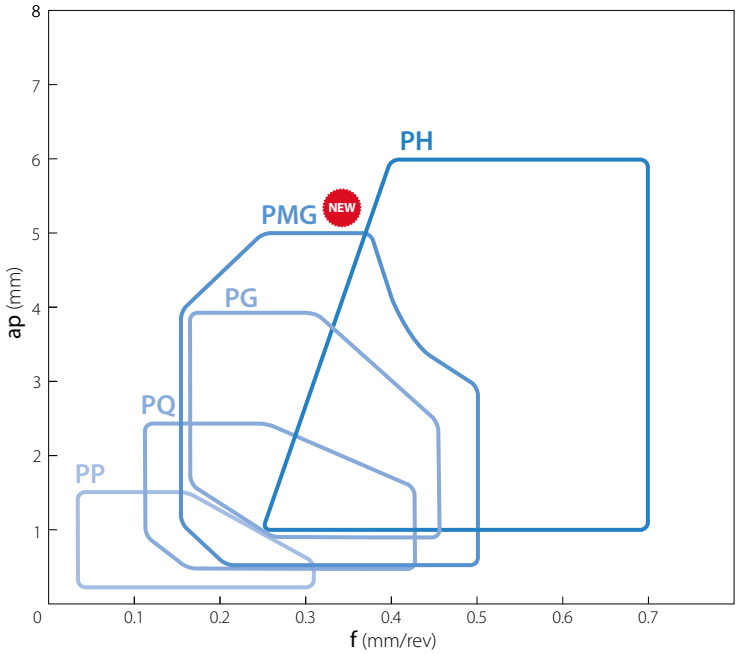
PMG NEW
For medium-roughing
Covers a wide range of machining areas

PG
For medium-roughing
Stability-oriented

PH
For roughing
Tough edge design

Applicable chipbreaker range (ap indicates radius)

CNMG12 Type



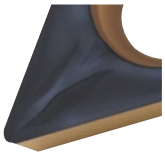
Positive type

For finishing

PP
High reliability
Improving the productivity of finishing

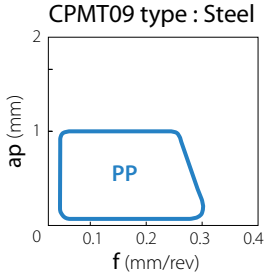
Wiper insert

WP
Newly designed wiper edge geometry
High productivity

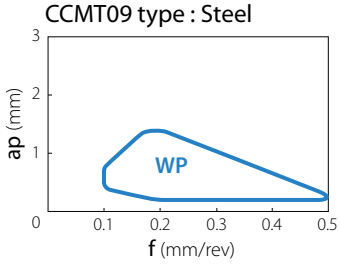


Applicable chipbreaker range (ap indicates radius)

CPMT09 type : Steel



CCMT09 type : Steel



For medium-roughing

PMG chipbreaker NEW

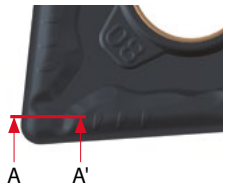
Covers a wide range of machining applications from medium machining to roughing
Excellent wear resistance with low cutting force design
Reduces chip shape inconsistencies and improves tool life

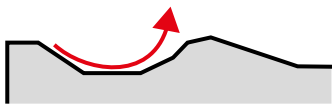
Step breaker structure

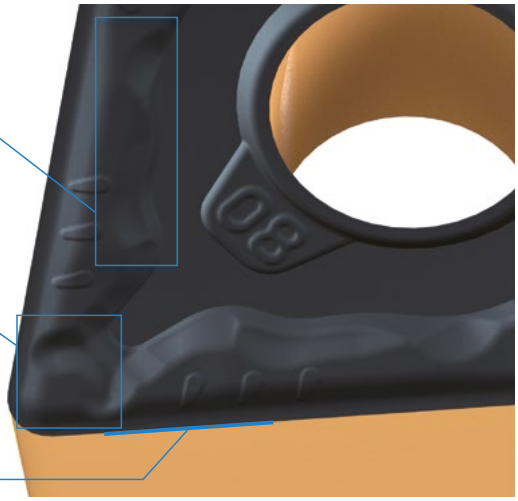
Suppresses chip entanglement during large D.O.C. machining with a gently rising surface

Circle dot

Control chips during small D.O.C. machining







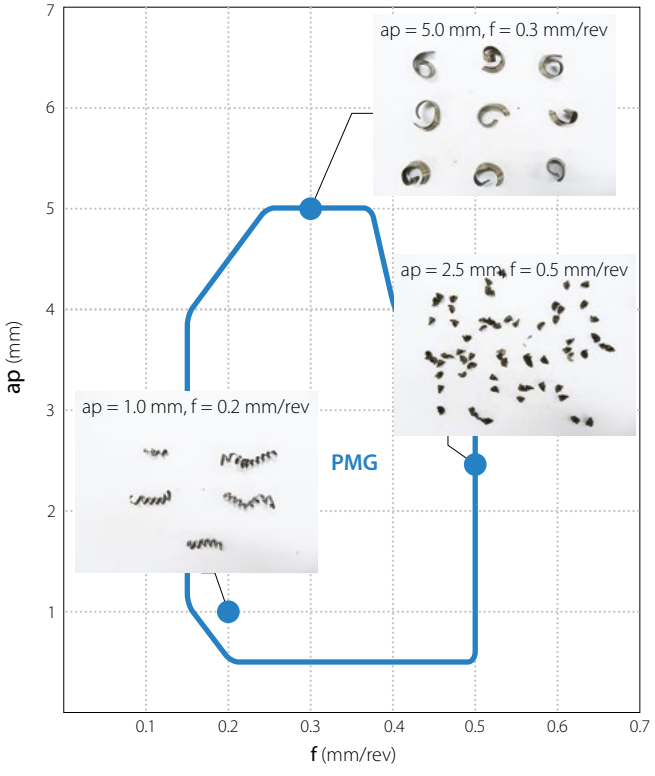
High rake perimeter

Low resistance design suppresses rake face temperature rise
Reduces chipbreakers wear and chip shape changes

Excellent chip control

Good chip control in a wide range of machining areas

Applicable chipbreaker range



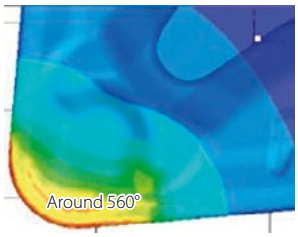
Cutting conditions: Vc = 300 m/min, ap = 0.5~5.0 mm, f = 0.1~0.5 mm/rev
Workpiece: SCr420 CNMG120408PMG

Achieves longer tool life

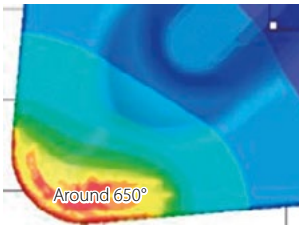
Suppresses rise in rake face temperature. Reduces crater wear

Edge temperature simulation comparison (Internal evaluation)

PMG chipbreaker



Conventional B



Cutting conditions: Vc = 270 m/min, ap = 1.5 mm, f = 0.3 mm/rev
Workpiece: SCM430

Consistent, small, and even chip shapes

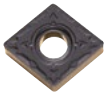
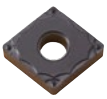
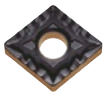
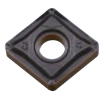
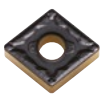
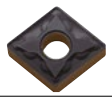
Chip shape

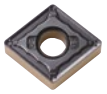
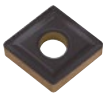
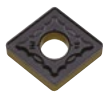
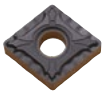
	PMG chipbreaker		Conventional B	
Initial machining			Initial machining	
After 27.2 min machining			After 25.0 min machining	

Cutting conditions: Vc = 300 m/min, ap = 1.5 mm, f = 0.3 mm/rev
Wet (External coolant) Workpiece: SCM435 WNMG080408PMG

Negative type inserts

CA115P Releasing June 2023

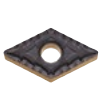
Shape		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Wiper Edge	 Finishing	CNMG	120404WF	12.70	4.76	5.16	0.4	●	●
			120408WF				0.8	●	●
Wiper Edge	 Finishing	CNMG	120404WP	12.70	4.76	5.16	0.4	●	●
			120408WP				0.8	●	●
Wiper Edge	 Finishing-Medium	CNMG	120404WE	12.70	4.76	5.16	0.4	●	●
			120408WE				0.8	●	●
			120412WE				1.2	●	●
Wiper Edge	 Finishing-Medium	CNMG	120404WQ	12.70	4.76	5.16	0.4	●	●
			120408WQ				0.8	●	●
			120412WQ				1.2	●	●
Finishing		CNMG	120402PP	12.70	4.76	5.16	0.2	●	●
			120404PP				0.4	●	●
			120408PP				0.8	●	●
			120412PP				1.2	●	●
Finishing		CNMG	120402GP	12.70	4.76	5.16	0.2	●	●
			120404GP				0.4	●	●
			120408GP				0.8	●	●
Finishing-Medium		CNMG	120404PQ	12.70	4.76	5.16	0.4	●	●
			120408PQ				0.8	●	●
			120412PQ				1.2	●	●
Finishing-Medium		CNMG	090404HQ	9.525	4.76	3.81	0.4	●	●
			090408HQ				0.8	●	●
		CNMG	120404HQ	12.70	4.76	5.16	0.4	●	●
			120408HQ				0.8	●	●
			120412HQ				1.2	●	●
Finishing-Medium / Up Facing		CNMG	120404CQ	12.70	4.76	5.16	0.4	●	●
			120408CQ				0.8	●	●
			120412CQ				1.2	●	●
		CNMG	160608CQ	15.875	6.35	6.35	0.8	●	●
			160612CQ				1.2	●	●
Finishing-Medium / Up Facing		CNMG	120408CJ	12.70	4.76	5.16	0.8	●	●
			120412CJ				1.2	●	●
		CNMG	160612CJ	15.875	6.35	6.35	1.2	●	●
			160616CJ				1.6	●	●
Medium-Roughing		CNMG	120404PMG	12.70	4.76	5.16	0.4	●	●
			120408PMG				0.8	●	●
			120412PMG				1.2	●	●
			120416PMG				1.6	●	●
		CNMG	160608PMG	15.875	6.35	6.35	0.8	●	●
			160612PMG				1.2	●	●
			160616PMG				1.6	●	●
Medium-Roughing (continuous)		CNMG	090404GS	9.525	4.76	3.81	0.4	●	●
			090408GS				0.8	●	●

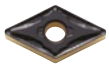
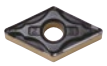
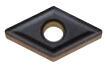
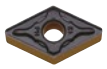
Shape		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Medium-Roughing (Interruption)		CNMG	120404PG	12.70	4.76	5.16	0.4	●	●
			120408PG				0.8	●	●
			120412PG				1.2	●	●
			120416PG				1.6	●	●
Roughing		CNMG	120404	12.70	4.76	5.16	0.4	●	●
			120408				0.8	●	●
			120412				1.2	●	●
		CNMG	160608	15.875	6.35	6.35	0.8	●	●
			160612				1.2	●	●
		CNMG	190612	19.05	6.35	7.94	1.2	●	●
			190616				1.6	●	●
Roughing		CNMG	120408PH	12.70	4.76	5.16	0.8	●	●
			120412PH				1.2	●	●
			120416PH				1.6	●	●
		CNMG	160608PH	15.875	6.35	6.35	0.8	●	●
			160612PH				1.2	●	●
			160616PH				1.6	●	●
		CNMG	190608PH	19.05	6.35	7.94	0.8	●	●
			190612PH				1.2	●	●
			190616PH				1.6	●	●
			190624PH				2.4	●	●
Single Sided Roughing / High Feed		CNMM	120408PX	12.70	4.76	5.16	0.8	●	●
			120412PX				1.2	●	●
			120416PX				1.6	●	●
		CNMM	160608PX	15.875	6.35	6.35	0.8	●	●
			160612PX				1.2	●	●
			160616PX				1.6	●	●
		CNMM	190608PX	19.05	6.35	7.94	0.8	●	●
			190612PX				1.2	●	●
			190616PX				1.6	●	●
			190624PX				2.4	●	●
Low Carbon Steel	 Finishing	CNMG	120404XP	12.70	4.76	5.16	0.4	●	●
			120408XP				0.8	●	●
Low Carbon Steel	 Medium	CNMG	120404XQ	12.70	4.76	5.16	0.4	●	●
			120408XQ				0.8	●	●
Low Carbon Steel	 Roughing	CNMG	120408XS	12.70	4.76	5.16	0.8	●	●

●: Available

Negative type inserts

CA115P Releasing June 2023

Shape		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Wiper Edge	 Finishing	DNMX	150404WF	12.70	4.76	5.16	0.4	●	●
			150408WF				0.8	●	●
			150412WF				1.2	●	●
		DNMX	150604WF	12.70	6.35	5.16	0.4	●	●
			150608WF				0.8	●	●
			150612WF				1.2	●	●
Finishing		DNMG	150402PP	12.70	4.76	5.16	0.2	●	●
			150404PP				0.4	●	●
			150408PP				0.8	●	●
			150412PP				1.2	●	●
		DNMG	150602PP	12.70	6.35	5.16	0.2	●	●
			150604PP				0.4	●	●
			150608PP				0.8	●	●
			150612PP				1.2	●	●
Finishing		DNMG	110404GP	9.525	4.76	3.81	0.4	●	●
			110408GP				0.8	●	●
		DNMG	150402GP	12.70	4.76	5.16	0.2	●	●
			150404GP				0.4	●	●
			150408GP				0.8	●	●
Finishing-Medium		DNMG	150404PQ	12.70	4.76	5.16	0.4	●	●
			150408PQ				0.8	●	●
			150412PQ				1.2	●	●
		DNMG	150604PQ	12.70	6.35	5.16	0.4	●	●
			150608PQ				0.8	●	●
			150612PQ				1.2	●	●
Finishing-Medium		DNMG	110402HQ	9.525	4.76	3.81	0.2	●	●
			110404HQ				0.4	●	●
		DNMG	150404HQ	12.70	4.76	5.16	0.4	●	●
			150408HQ				0.8	●	●
			150412HQ				1.2	●	●
		DNMG	150604HQ	12.70	6.35	5.16	0.4	●	●
			150608HQ				0.8	●	●
			150612HQ				1.2	●	●
Finishing-Medium / Up Facing		DNMG	150404CQ	12.70	4.76	5.16	0.4	●	●
			150408CQ				0.8	●	●
			150412CQ				1.2	●	●
		DNMG	150604CQ	12.70	6.35	5.16	0.4	●	●
			150608CQ				0.8	●	●
			150612CQ				1.2	●	●
Finishing-Medium / Up Facing		DNMG	150408CJ	12.70	4.76	5.16	0.8	●	●
			150412CJ				1.2	●	●
		DNMG	150608CJ	12.70	6.35	5.16	0.8	●	●
			150612CJ				1.2	●	●

Shape		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Medium-Roughing		DNMG	150404PMG	12.70	4.76	5.16	0.4	●	●
			150408PMG				0.8	●	●
			150412PMG				1.2	●	●
			150416PMG				1.6	●	●
		DNMG	150604PMG	12.70	6.35	5.16	0.4	●	●
			150608PMG				0.8	●	●
			150612PMG				1.2	●	●
			150616PMG				1.6	●	●
Medium		DNMG	110404GS	9.525	4.76	3.81	0.4	●	●
			110408GS				0.8	●	●
Medium-Roughing (Interruption)		DNMG	150404PG	12.70	4.76	5.16	0.4	●	●
			150408PG				0.8	●	●
			150412PG				1.2	●	●
			150416PG				1.6	●	●
		DNMG	150604PG	12.70	6.35	5.16	0.4	●	●
			150608PG				0.8	●	●
			150612PG				1.2	●	●
			150616PG				1.6	●	●
Roughing		DNMG	150404	12.70	4.76	5.16	0.4	●	●
			150408				0.8	●	●
		DNMG	150608	12.70	6.35	5.16	0.8	●	●
			150612				1.2	●	●
Roughing		DNMG	150408PH	12.70	4.76	5.16	0.8	●	●
			150412PH				1.2	●	●
			150416PH				1.6	●	●
		DNMG	150608PH	12.70	6.35	5.16	0.8	●	●
			150612PH				1.2	●	●
			150616PH				1.6	●	●
Single-Sided Roughing / High Feed		DNMM	150408PX	12.70	4.76	5.16	0.8	●	●
			150412PX				1.2	●	●
			150416PX				1.6	●	●
		DNMM	150608PX	12.70	6.35	5.16	0.8	●	●
			150612PX				1.2	●	●
			150616PX				1.6	●	●
Low Carbon Steel	 Finishing	DNMG	150404XP	12.70	4.76	5.16	0.4	●	●
			150408XP				0.8	●	●
Low Carbon Steel	 Medium	DNMG	150404XQ	12.70	4.76	5.16	0.4	●	●
			150408XQ				0.8	●	●
Low Carbon Steel	 Roughing	DNMG	150408XS	12.70	4.76	5.16	0.8	●	●

●: Available

Negative type inserts

CA115P Releasing June 2023

Shape		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Medium-Roughing		RNMG	090300	9.525	3.18	3.81	-	●	●
		RNMG	120400	12.70	4.76	5.16	-	●	●
		RNMG	150600	15.875	6.35	6.35	-	●	●
Finishing-Medium		SNMG	120404PQ	12.70	4.76	5.16	0.4	●	●
			120408PQ				0.8	●	●
			120412PQ				1.2	●	●
Finishing-Medium		SNMG	120404HQ	12.70	4.76	5.16	0.4	●	●
			120408HQ				0.8	●	●
			120412HQ				1.2	●	●
Medium-Roughing		SNMG	120408PMG	12.70	4.76	5.16	0.8	●	●
			120412PMG				1.2	●	●
			120416PMG				1.6	●	●
Medium		SNMG	120408PG	12.70	4.76	5.16	0.8	●	●
			120412PG				1.2	●	●
			120416PG				1.6	●	●
Roughing		SNMG	090304	9.525	3.18	3.81	0.4	●	●
			090308				0.8	●	●
		SNMG	120408	12.70	4.76	5.16	0.8	●	●
			120412				1.2	●	●
			120416				1.6	●	●
Roughing		SNMG	120408PH	12.70	4.76	5.16	0.8	●	●
			120412PH				1.2	●	●
			120416PH				1.6	●	●
		SNMG	150612PH	15.875	6.35	6.35	1.2	●	●
			150616PH				1.6	●	●
		SNMG	190612PH	19.05	6.35	7.94	1.2	●	●
			190616PH				1.6	●	●
Single Sided Roughing / High Feed		SNMM	120408PX	12.70	4.76	5.16	0.8	●	●
			120412PX				1.2	●	●
			120416PX				1.6	●	●
		SNMM	150612PX	15.875	6.35	6.35	1.2	●	●
			150616PX				1.6	●	●
		SNMM	190612PX	19.05	6.35	7.94	1.2	●	●
			190616PX				1.6	●	●
			190624PX				2.4	●	●
Low Carbon Steel	 Finishing	SNMG	120408XP	12.70	4.76	5.16	0.8	●	●
Low Carbon Steel	 Medium	SNMG	120408XQ	12.70	4.76	5.16	0.8	●	●
Low Carbon Steel	 Roughing	SNMG	120408XS	12.70	4.76	5.16	0.8	●	●

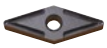
Shape		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Wiper Edge	 Finishing	TNMX	160404WF	9.525	4.76	3.81	0.4	●	●
			160408WF				0.8	●	●
			160412WF				1.2	●	●
Finishing		TNMG	160402PP	9.525	4.76	3.81	0.2	●	●
			160404PP				0.4	●	●
			160408PP				0.8	●	●
			160412PP				1.2	●	●
Finishing		TNMG	160402GP	9.525	4.76	3.81	0.2	●	●
			160404GP				0.4	●	●
			160408GP				0.8	●	●
Finishing-Medium		TNMG	160404PQ	9.525	4.76	3.81	0.4	●	●
			160408PQ				0.8	●	●
			160412PQ				1.2	●	●
Finishing-Medium		TNMG	110404HQ	6.35	4.76	2.26	0.4	●	●
			110408HQ				0.8	●	●
		TNMG	160404HQ	9.525	4.76	3.81	0.4	●	●
			160408HQ				0.8	●	●
			160412HQ				1.2	●	●
Finishing-Medium / Up Facing		TNMG	160404CQ	9.525	4.76	3.81	0.4	●	●
			160408CQ				0.8	●	●
			160412CQ				1.2	●	●
		TNMG	220408CQ	12.70	4.76	5.16	0.8	●	●
			220412CQ				1.2	●	●
Medium-Roughing		TNMG	160404PMG	9.525	4.76	3.81	0.4	●	●
			160408PMG				0.8	●	●
			160412PMG				1.2	●	●
		TNMG	220404PMG	12.70	4.76	5.16	0.4	●	●
			220408PMG				0.8	●	●
			220412PMG				1.2	●	●
			220416PMG				1.6	●	●
Medium (Continuous)		TNMG	110404GS	6.35	4.76	2.26	0.4	●	●
			110408GS				0.8	●	●
Medium-Roughing (Interrupted)		TNMG	160404PG	9.525	4.76	3.81	0.4	●	●
			160408PG				0.8	●	●
			160412PG				1.2	●	●
Roughing		TNMG	160404	9.525	4.76	3.81	0.4	●	●
			160408				0.8	●	●
			160412				1.2	●	●
		TNMG	220408	12.70	4.76	5.16	0.8	●	●
			220412				1.2	●	●

●: Available

Negative type inserts

CA115P Releasing June 2023

Shape (Handed insert shows Right-hand)		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Roughing		TNMG	160408PH	9.525	4.76	3.81	0.8	●	●
			160412PH				1.2	●	●
		TNMG	220408PH	12.70	4.76	5.16	0.8	●	●
			220412PH				1.2	●	●
			220416PH				1.6	●	●
Single Sided Roughing / High Feed		TNMM	160408PX	9.525	4.76	3.81	0.8	●	●
			160412PX				1.2	●	●
		TNMM	220408PX	12.70	4.76	5.16	0.8	●	●
			220412PX				1.2	●	●
			220416PX				1.6	●	●
Low Carbon Steel	 Finishing	TNMG	160404XP	9.525	4.76	3.81	0.4	●	●
			160408XP				0.8	●	●
Low Carbon Steel	 Medium	TNMG	160404XQ	9.525	4.76	3.81	0.4	●	●
			160408XQ				0.8	●	●
Low Carbon Steel	 Roughing	TNMG	160408XS	9.525	4.76	3.81	0.8	●	●
Medium-Roughing		TNMG	160404R/L-ST	9.525	4.76	3.81	0.4	●	●
			160408R/L-ST				0.8	●	●

Shape (Handed insert shows Right-hand)		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Finishing		VNMG	160402PP	9.525	4.76	3.81	0.2	●	●
			160404PP				0.4	●	●
			160408PP				0.8	●	●
			160412PP				1.2	●	●
Finishing		VNMG	160402GP	9.525	4.76	3.81	0.2	●	●
			160404GP				0.4	●	●
			160408GP				0.8	●	●
Finishing-Medium		VNMG	160404R/L-VC	9.525	4.76	3.81	0.4	●	●
			160408R/L-VC				0.8	●	●
			160412R/L-VC				1.2	●	●
Finishing-Medium		VNMG	160404VF	9.525	4.76	3.81	0.4	●	●
			160408VF				0.8	●	●
			160412VF				1.2	●	●
Finishing-Medium		VNMG	160404PQ	9.525	4.76	3.81	0.4	●	●
			160408PQ				0.8	●	●
			160412PQ				1.2	●	●
Finishing-Medium		VNMG	160404HQ	9.525	4.76	3.81	0.4	●	●
			160408HQ				0.8	●	●
			160412HQ				1.2	●	●
Roughing		VNMG	160404	9.525	4.76	3.81	0.4	●	●
			160408				0.8	●	●

●: Available

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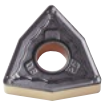
Negative type inserts

CA115P Releasing June 2023

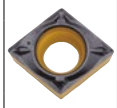
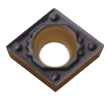
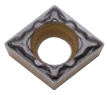
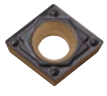
Shape		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Wiper Edge	 Finishing	WNMG	080404WF	12.70	4.76	5.16	0.4	●	●
			080408WF				0.8	●	●
Wiper Edge	 Finishing	WNMG	080404WP	12.70	4.76	5.16	0.4	●	●
			080408WP				0.8	●	●
Wiper Edge	 Finishing-Medium	WNMG	080404WE	12.70	4.76	5.16	0.4	●	●
			080408WE				0.8	●	●
			080412WE				1.2	●	●
Wiper Edge	 Finishing-Medium	WNMG	080404WQ	12.70	4.76	5.16	0.4	●	●
			080408WQ				0.8	●	●
			080412WQ				1.2	●	●
Finishing		WNMG	080402PP	12.70	4.76	5.16	0.2	●	●
			080404PP				0.4	●	●
			080408PP				0.8	●	●
			080412PP				1.2	●	●
Finishing-Medium		WNMG	080404PQ	12.70	4.76	5.16	0.4	●	●
			080408PQ				0.8	●	●
			080412PQ				1.2	●	●
Finishing-Medium		WNMG	06T304HQ	9.525	3.97	3.81	0.4	●	●
			06T308HQ				0.8	●	●
		WNMG	060404HQ	9.525	4.76	3.81	0.4	●	●
			060408HQ				0.8	●	●
		WNMG	080404HQ	12.70	4.76	5.16	0.4	●	●
			080408HQ				0.8	●	●
			080412HQ				1.2	●	●
Finishing-Medium / Up Facing		WNMG	080404CQ	12.70	4.76	5.16	0.4	●	●
			080408CQ				0.8	●	●
			080412CQ				1.2	●	●
Finishing-Medium / Up Facing		WNMG	080408CJ	12.70	4.76	5.16	0.8	●	●
			080412CJ				1.2	●	●

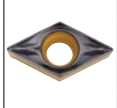
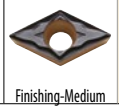
Shape		Description		Dimensions (mm) I.C.	S	D1	RE	CA115P	CA125P
Medium-Roughing		WNMG	080404PMG	12.70	4.76	5.16	0.4	●	●
			080408PMG				0.8	●	●
			080412PMG				1.2	●	●
			080416PMG				1.6	●	●
Medium-Roughing (continuous)		WNMG	060404GS	9.525	4.76	3.81	0.4	●	●
			060408GS				0.8	●	●
Medium-Roughing (Interruption)		WNMG	080404PG	12.70	4.76	5.16	0.4	●	●
			080408PG				0.8	●	●
			080412PG				1.2	●	●
			080416PG				1.6	●	●
Roughing		WNMG	080404	12.70	4.76	5.16	0.4	●	●
			080408				0.8	●	●
			080412				1.2	●	●
Roughing		WNMG	080408PH	12.70	4.76	5.16	0.8	●	●
			080412PH				1.2	●	●
Low Carbon Steel	 Finishing	WNMG	080404XP	12.70	4.76	5.16	0.4	●	●
			080408XP				0.8	●	●
Low Carbon Steel	 Medium	WNMG	080404XQ	12.70	4.76	5.16	0.4	●	●
			080408XQ				0.8	●	●
Low Carbon Steel	 Roughing	WNMG	080408XS	12.70	4.76	5.16	0.8	●	●

●: Available

Positive type inserts

CA115P Releasing June 2023

Shape		Description		Dimensions (mm) I.C.	S	D1	RE	Relief Angle	CA115P	CA125P
Wiper Edge	 Finishing	CCMT	060202WP	6.35	2.38	2.8	0.2	7°	●	●
			060204WP				0.4		●	●
			060208WP				0.8		●	●
		CCMT	09T302WP	9.525	3.97	4.4	0.2	7°	●	●
			09T304WP				0.4		●	●
			09T308WP				0.8		●	●
Finishing		CCMT	060202PP	6.35	2.38	2.8	0.2	7°	●	●
			060204PP				0.4		●	●
		CCMT	09T302PP	9.525	3.97	4.4	0.2	7°	●	●
			09T304PP				0.4		●	●
			09T308PP				0.8		●	●
Finishing-Medium		CCMT	060202GK	6.35	2.38	2.8	0.2	7°	●	●
			060204GK				0.4		●	●
		CCMT	09T302GK	9.525	3.97	4.4	0.2	7°	●	●
			09T304GK				0.4		●	●
		CCMT	120404GK	12.70	4.76	5.5	0.4	7°	●	●
			120408GK				0.8		●	●
			120412GK				1.2		●	●
Finishing-Medium		CCMT	060202HQ	6.35	2.38	2.8	0.2	7°	●	●
			060204HQ				0.4		●	●
		CCMT	09T302HQ	9.525	3.97	4.4	0.2	7°	●	●
			09T304HQ				0.4		●	●
			09T308HQ				0.8		●	●
Medium		CCMT	09T308	9.525	3.97	4.4	0.8	7°	●	●
Finishing		CPMT	080202PP	7.94	2.38	3.3	0.2	11°	●	●
			080204PP				0.4		●	●
		CPMT	090302PP	9.525	3.18	4.4	0.2	11°	●	●
			090304PP				0.4		●	●
			090308PP				0.8		●	●
Finishing		CPMT	080204GP	7.94	2.38	3.3	0.4	11°	●	●
		CPMT	090304GP	9.525	3.18	4.4	0.4	11°	●	●
			090308GP				0.8		●	●
Finishing-Medium		CPMH	080204HQ	7.94	2.38	3.5	0.4	11°	●	●
			080208HQ				0.8		●	●
		CPMH	090304HQ	9.525	3.18	4.5	0.4	11°	●	●
			090308HQ				0.8		●	●
Medium		CPMH	080204	7.94	2.38	3.5	0.4	11°	●	●
			080208				0.8		●	●
		CPMH	090304	9.525	3.18	4.5	0.4	11°	●	●
			090308				0.8		●	●
Low Carbon Steel	 Finishing	CPMT	080204XP	7.94	2.38	3.3	0.4	11°	●	●
		CPMT	090304XP	9.525	3.18	4.4	0.4	11°	●	●
			090308XP				0.8		●	●
Low Carbon Steel	 Finishing-Medium	CPMT	090304XQ	9.525	3.18	4.4	0.4	11°	●	●
			090308XQ				0.8		●	●

Shape		Description		Dimensions (mm) I.C.	S	D1	RE	Relief Angle	CA115P	CA125P
Wiper Edge	 Finishing	DCMX	070202WP	6.35	2.38	2.8	0.2	7°	●	●
			070204WP				0.4		●	●
			070208WP				0.8		●	●
		DCMX	11T302WP	9.525	3.97	4.4	0.2	7°	●	●
			11T304WP				0.4		●	●
			11T308WP				0.8		●	●
Finishing		DCMT	070202PP	6.35	2.38	2.8	0.2	7°	●	●
			070204PP				0.4		●	●
		DCMT	11T302PP	9.525	3.97	4.4	0.2	7°	●	●
			11T304PP				0.4		●	●
			11T308PP				0.8		●	●
Finishing		DCMT	070202GP	6.35	2.38	2.8	0.2	7°	●	●
			070204GP				0.4		●	●
		DCMT	11T304GP	9.525	3.97	4.4	0.4	7°	●	●
			11T308GP				0.8		●	●
Finishing-Medium		DCMT	070202GK	6.35	2.38	2.8	0.2	7°	●	●
			070204GK				0.4		●	●
			070208GK				0.8		●	●
		DCMT	11T302GK	9.525	3.97	4.4	0.2	7°	●	●
			11T304GK				0.4		●	●
			11T308GK				0.8		●	●
Finishing-Medium		DCMT	070202HQ	6.35	2.38	2.8	0.2	7°	●	●
			070204HQ				0.4		●	●
			070208HQ				0.8		●	●
		DCMT	11T302HQ	9.525	3.97	4.4	0.2	7°	●	●
			11T304HQ				0.4		●	●
			11T308HQ				0.8		●	●
Low Carbon Steel	 Finishing	DCMT	070204XP	6.35	2.38	2.8	0.4	7°	●	●
		DCMT	11T302XP	9.525	3.97	4.4	0.2	7°	●	●
			11T304XP				0.4		●	●
			11T308XP				0.8		●	●
Low Carbon Steel	 Finishing-Medium	DCMT	11T304XQ	9.525	3.97	4.4	0.4	7°	●	●
			11T308XQ				0.8		●	●

●: Available

Positive type inserts

CA115P Releasing June 2023

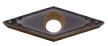
Shape		Description		Dimensions (mm) I.C.	S	D1	RE	Relief Angle	CA115P	CA125P
Medium		RCMX	1003M0	10.0	3.18	3.6	-	7°	●	●
		RCMX	1204M0	12.0	4.76	4.2	-		●	●
Finishing-Medium		SCMT	09T304HQ	9.525	3.97	4.4	0.4	7°	●	●
			09T308HQ				0.8		●	●
Medium		SPMR	090304	9.525	3.18	-	0.4	11°	●	●
			090308				0.8		●	●
		SPMR	120304	12.7	3.18	-	0.4	11°	●	●
			120308				0.8		●	●
Finishing		TBMT	060102DP	3.97	1.59	2.3	0.2	5°	●	●
			060104DP				0.4		●	●
Wiper Edge	 Finishing	TCMX	090204WP	5.56	2.38	2.5	0.4	7°	●	●
		TCMX	110204WP	6.35	2.38	2.8	0.4	7°	●	●
Finishing-Medium		TCMT	110204HQ	6.35	2.38	2.8	0.4	7°	●	●
			110208HQ				0.8		●	●
Wiper Edge	 Finishing	TPMX	090202WP	5.56	2.38	2.8	0.2	11°	●	●
			090204WP				0.4		●	●
			090208WP				0.8		●	●
		TPMX	110302WP	6.35	3.18	3.3	0.2	11°	●	●
			110304WP				0.4		●	●
			110308WP				0.8		●	●
Finishing		TPMT	090202PP	5.56	2.38	2.8	0.2	11°	●	●
			090204PP				0.4		●	●
		TPMT	110302PP	6.35	3.18	3.3	0.2	11°	●	●
			110304PP				0.4		●	●
			110308PP				0.8		●	●
Finishing		TPMT	090204GP	5.56	2.38	2.8	0.4	11°	●	●
		TPMT	110304GP	6.35	3.18	3.3	0.4	11°	●	●
			110308GP				0.8		●	●
		TPMT	160304GP	9.525	3.18	4.4	0.4	11°	●	●

Shape		Description		Dimensions (mm) I.C.	S	D1	RE	Relief Angle	CA115P	CA125P
Finishing-Medium		TPMT	090202HQ	5.56	2.38	2.8	0.2	11°	●	●
			090204HQ				0.4		●	●
		TPMT	110302HQ	6.35	3.18	3.3	0.2	11°	●	●
			110304HQ				0.4		●	●
			110308HQ				0.8		●	●
		TPMT	160304HQ	9.525	3.18	4.4	0.4	11°	●	●
			160308HQ				0.8		●	●
Low Carbon Steel	 Finishing	TPMT	090204XP	5.56	2.38	2.8	0.4	11°	●	●
		TPMT	110304XP	6.35	3.18	3.3	0.4	11°	●	●
			110308XP				0.8		●	●
		TPMT	160304XP	9.525	3.18	4.4	0.4	11°	●	●
			160308XP				0.8		●	●
Low Carbon Steel	 Finishing-Medium	TPMT	110304XQ	6.35	3.18	3.3	0.4	11°	●	●
			110308XQ				0.8		●	●
		TPMT	160304XQ	9.525	3.18	4.4	0.4	11°	●	●
			160308XQ				0.8		●	●
Finishing		TPMR	160304GP	9.525	3.18	-	0.4	11°	●	●
Finishing-Medium		TPMR	110304HQ	6.35	3.18	-	0.4	11°	●	●
			110308HQ				0.8		●	●
		TPMR	160304HQ	9.525	3.18	-	0.4	11°	●	●
			160308HQ				0.8		●	●
Medium		TPMR	110304	6.35	3.18	-	0.4	11°	●	●
			110308				0.8		●	●
		TPMR	160304	9.525	3.18	-	0.4	11°	●	●
			160308				0.8		●	●

●: Available

Positive type inserts

CA115P Releasing June 2023

Shape		Description		Dimensions (mm) I.C.	S	D1	RE	Relief Angle	CA115P	CA125P
Finishing		VBMT	110302PP	6.35	3.18	2.8	0.2	5°	●	●
			110304PP				0.4		●	●
			110308PP				0.8		●	●
		VBMT	160404PP	9.525	4.76	4.4	0.4	5°	●	●
			160408PP				0.8		●	●
			160412PP				1.2		●	●
Finishing		VBMT	110304GP	6.35	3.18	2.8	0.4	5°	●	●
		VBMT	160404GP	9.525	4.76	4.4	0.4	5°	●	●
			160408GP				0.8		●	●
Finishing		VBMT	110302VF	6.35	3.18	2.8	0.2	5°	●	●
			110304VF				0.4		●	●
			110308VF				0.8		●	●
		VBMT	160402VF	9.525	4.76	4.4	0.2	5°	●	●
			160404VF				0.4		●	●
			160408VF				0.8		●	●
			160412VF				1.2		●	●
Finishing-Medium		VBMT	110304HQ	6.35	3.18	2.8	0.4	5°	●	●
			110308HQ				0.8		●	●
		VBMT	160404HQ	9.525	4.76	4.4	0.4	5°	●	●
			160408HQ				0.8		●	●
			160412HQ				1.2		●	●

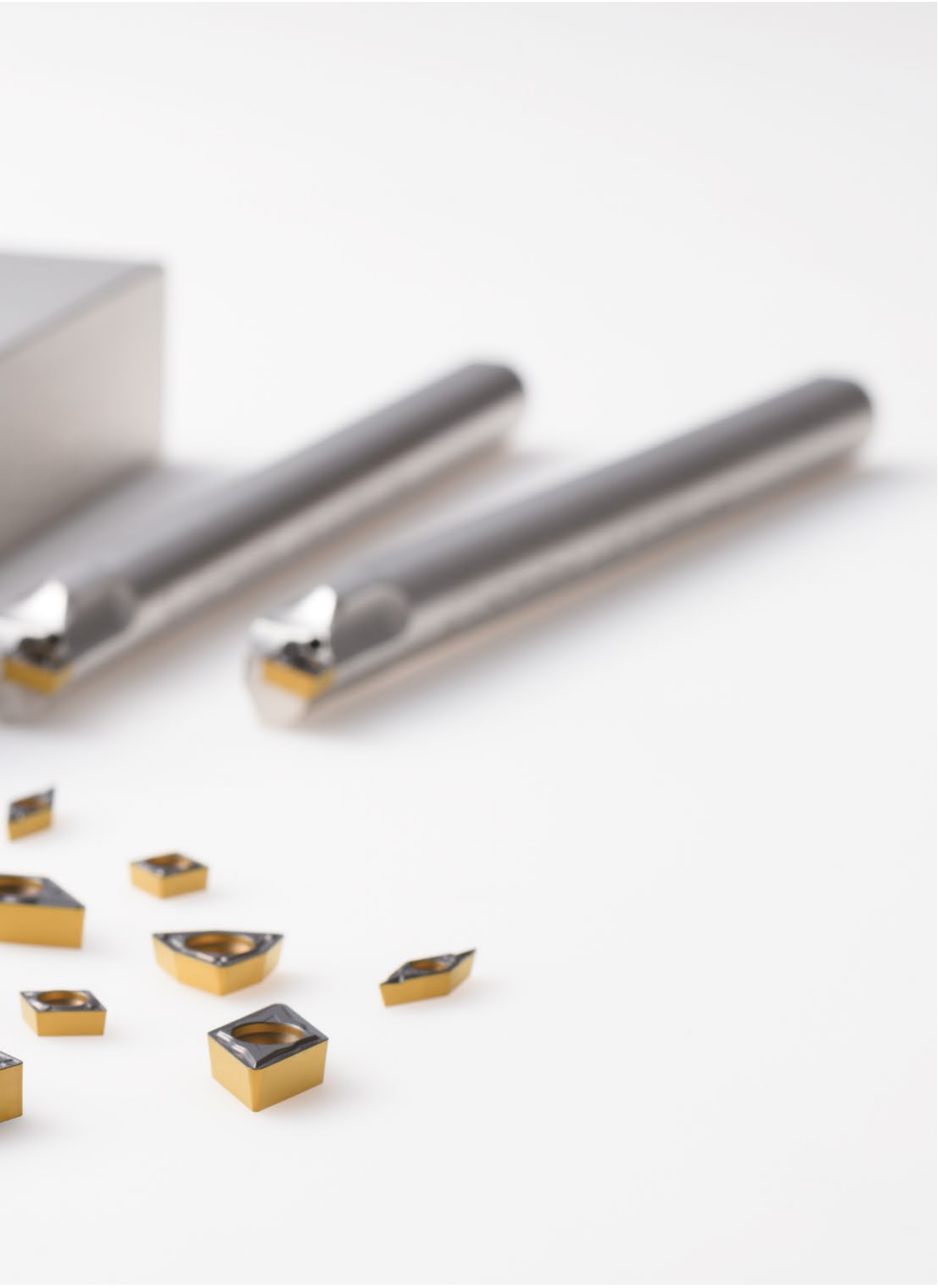
Shape		Description		Dimensions (mm) I.C.	S	D1	RE	Relief Angle	CA115P	CA125P
Finishing		VCMT	080202PP	4.76	2.38	2.3	0.2	7°	●	●
			080204PP				0.4		●	●
		VCMT	160404PP	9.525	4.76	4.4	0.4	7°	●	●
			160408PP				0.8		●	●
Finishing		VCMT	080202VF	4.76	2.38	2.3	0.2	7°	●	●
			080204VF				0.4		●	●
Finishing-Medium		VCMT	080202HQ	4.76	2.38	2.3	0.2	7°	●	●
			080204HQ				0.4		●	●
Finishing		WBMT	060102L-DP	3.97	1.59	2.3	0.2	5°	L	L
			060104L-DP				0.4		L	L
		WBMT	080202L-DP	4.76	2.38	2.3	0.2	5°	L	L
			080204L-DP				0.4		L	L
Finishing		WPMT	110204GP	6.35	2.38	2.8	0.4	11°	●	●
		WPMT	160304GP	9.525	3.18	4.4	0.4	11°	●	●
FinishWing-Medium		WPMT	110202HQ	6.35	2.38	2.8	0.2	11°	●	●
			110204HQ				0.4		●	●
		WPMT	160304HQ	9.525	3.18	4.4	0.4	11°	●	●
			160308HQ				0.8		●	●

●: Available
L : Left-hand Only

Recommended cutting conditions

Vc (m/min)

		Low carbon steel Low carbon alloy steel	Medium carbon steel Medium carbon alloy steel	High carbon alloy steel
		150 HB or below	250 HB or below	300 HB or below
CA115P	Negative	150 ~ **300** ~ 400		150 ~ **280** ~ 360
	Positive	120 ~ **240** ~ 320		110 ~ **220** ~ 290
CA125P	Negative	150 ~ **240** ~ 320		150 ~ **220** ~ 280
	Positive	120 ~ **190** ~ 260		110 ~ **170** ~ 230



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