THE NEW VALUE FRONTIER

KYOCERA

CVD Coating for Cast Iron | CA3 Series

New CVD Coated Carbides for Cast Iron

CA3 Series

NEW

3 優勢

(工具壽命長 / 高效能 / 值得信賴)

3 種刀片規格

(CA310 / CA315 / CA320)

3 種斷屑槽

(KQ / KG / KH)

New CVD Coated Carbides for Cast Iron

CA310 / CA315 / CA320

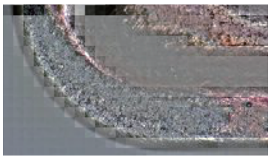
工具壽命長　、安定加工

- ○ 特殊鍍層有效防止黏著
- ○ 表面硬度高，防摩耗
- ○ $_20_3$ α-Al 表層
  有效抑制振刀並提高抗磨耗性
- ○ Intra-coating 接合劑
  改善晶體結構，增加黏著性
- ○ 碳氮化鈦鍍膜塗層
  可提高硬度防止摩耗

■ 黏著劑對比圖 （In-house Evaluation）

Cutting Conditions: Vc=150m/min, ap=1.5mm, f=0.3mm/rev, Wet, CNMG120412 Type, Facing
Workpiece: FCD700（8 Grooves in Workpiece）

Rake Face Condition （After Withstanding 3,000 Impacts）



CA3 Series (CA315)

Competitor A

CA310
高速連續加工

Focused on wear resistance for machining gray cast iron through the deposition of a thickened alumina coating layer

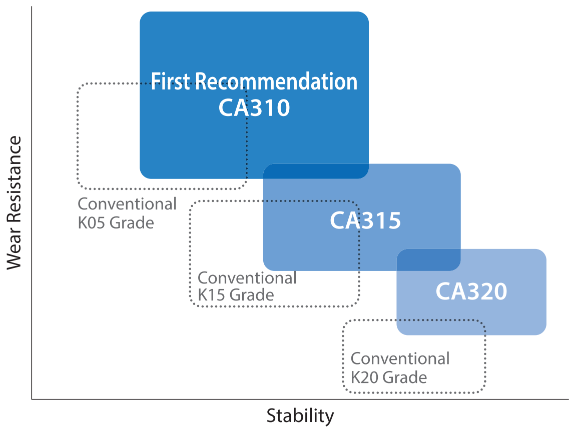
CA315
泛用型加工

Excellent performance for machining gray & nodular cast iron by optimizing the total coating layer thickness

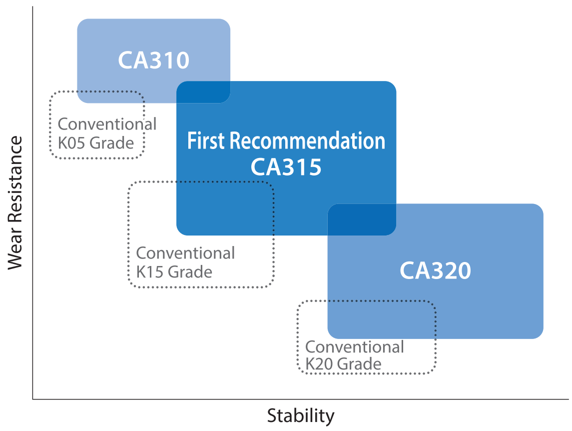
CA320
斷續加工

Improved stability in heavily interrupted machining for nodular cast iron by utilizing a thin CVD coating

灰鑄鐵加工
首推 **CA310**

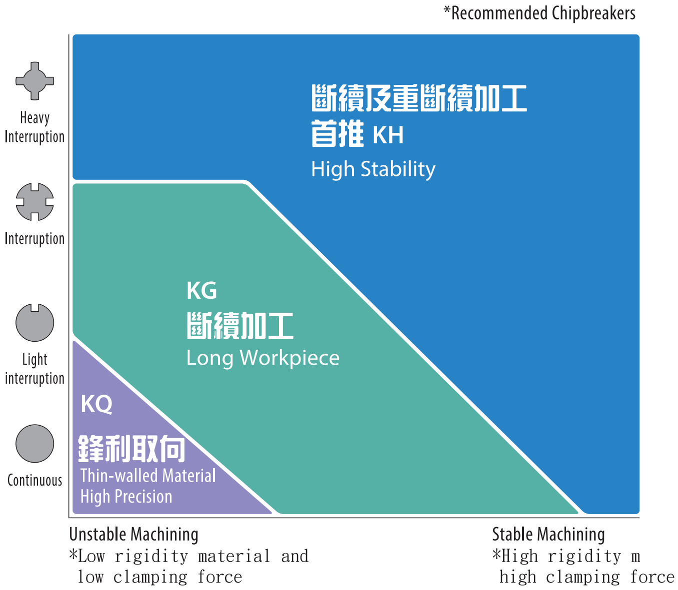


球墨鑄鐵加工
首推 **CA315**



鑄鐵加工CA3搭配新型K系列斷屑槽
可對應多種大型機械加工並有效抑制振刀發生

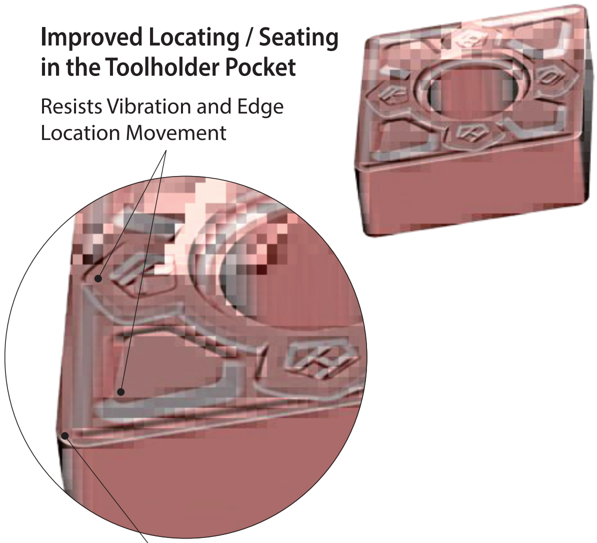
■K系列斷屑槽



斷續及重斷續加工 首推 KH
Focus on High Stability with Flat Land

Improved Locating / Seating in the Toolholder Pocket

Resists Vibration and Edge Location Movement



Flat Land

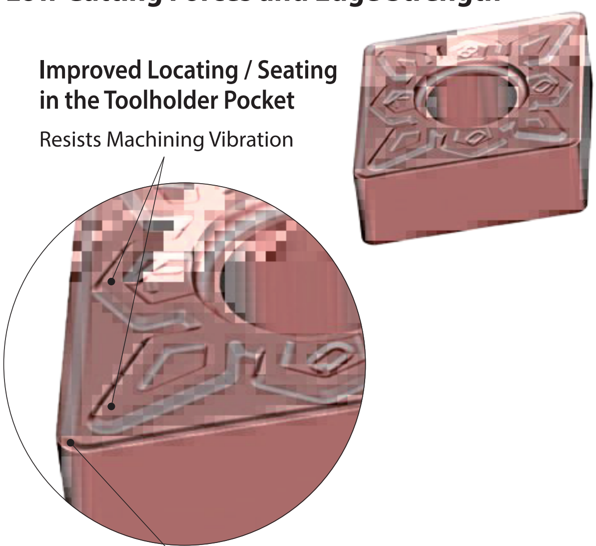
Tough and Reliable Edge Security
High Feed to Heavily Interrupted Machining
Edge Preparation Designed and Intended for Interrupted Machining with Breakage Resistance

銳利的 KQ 斷屑槽
推薦用於需要鋒利刀刃之加工
例如：薄壁材料

Good Balance between Low Cutting Forces and Edge Strength

Improved Locating / Seating in the Toolholder Pocket

Resists Machining Vibration



Balance of Sharpness and Strength

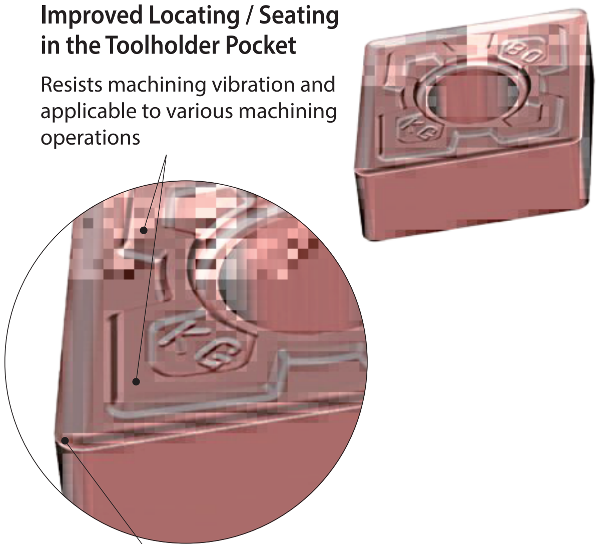
Edge Geometry is Appropriate for Thin-walled Workpieces

斷續加工 KG 斷屑槽
另也可以使用於其它的鑄鐵加工

Chipping resistance is improved

Improved Locating / Seating in the Toolholder Pocket

Resists machining vibration and applicable to various machining operations



Positive Land

Excellent Balance of Sharpness and Strength
Machining from Continuous to Interruption

Stock Items (Negative)

Description		CA310	CA315	CA320
CNMG	120404KQ	●	●	●
	120408KQ	●	●	●
	120412KQ	●	●	●
CNMG	120404KG	●	●	●
	120408KG	●	●	●
	120412KG	●	●	●
CNMG	120408KH	●	●	●
	120412KH	●	●	●
	120416KH	●	●	●
CNMA	120404	●	●	●
	120408	●	●	●
	120412	●	●	●
	120416	●	●	●
CNMG	120404	●	●	●
	120408	●	●	●
	120412	●	●	●
	120416	●	●	●
CNMG	160612	●	●	●
	160616	●	●	●
CNMG	190608	●	●	●
	190612	●	●	●
	190616	●	●	●
CNMG	120404C	●	●	●
	120408C	●	●	●
	120412C	●	●	●
	120416C	●	●	●
CNMG	160612C	●	●	●
CNMG	120408ZS	●	●	●
	120412ZS	●	●	●
CNMG	120408GC	●	●	●
	120412GC	●	●	●
CNMG	120408WQ	●	●	●
	120412WQ	●	●	●
CNMG	120408PH	●	●	●
	120412PH	●	●	●
	120416PH	●	●	●
CNMG	160612PH	●	●	●
	160616PH	●	●	●
DNMG	150404KQ	●	●	●
	150408KQ	●	●	●
DNMG	150604KQ	●	●	●
	150608KQ	●	●	●
DNMG	150404KG	●	●	●
	150408KG	●	●	●
	150412KG	●	●	●
DNMG	150604KG	●	●	●
	150608KG	●	●	●
	150612KG	●	●	●
DNMG	150408KH	●	●	●
	150412KH	●	●	●
DNMG	150608KH	●	●	●
	150612KH	●	●	●

Description		CA310	CA315	CA320
DNMA	150404	●	●	●
	150408	●	●	●
DNMA	150604	●	●	●
	150608	●	●	●
DNMG	150404	●	●	●
	150408	●	●	●
	150412	●	●	●
DNMG	150604	●	●	●
	150608	●	●	●
	150612	●	●	●
DNMG	150404C	●	●	●
	150408C	●	●	●
	150412C	●	●	●
DNMG	150604C	●	●	●
	150608C	●	●	●
	150612C	●	●	●
DNMG	150408ZS	●	●	●
	150412ZS	●	●	●
DNMG	150608ZS	●	●	●
	150612ZS	●	●	●
DNMG	150408GC	●	●	●
	150412GC	●	●	●
DNMG	150608GC	●	●	●
	150612GC	●	●	●
DNMG	150408PH	●	●	●
	150412PH	●	●	●
DNMG	150608PH	●	●	●
	150612PH	●	●	●
RNMG	120400	●	●	●
RNMG	150600	●	●	●
SNMG	120408KG	●	●	●
	120412KG	●	●	●
SNMG	120408KH	●	●	●
	120412KH	●	●	●
	120416KH	●	●	●
SNMA	120404	●	●	●
	120408	●	●	●
	120412	●	●	●
	120416	●	●	●
	120420	●	●	●
SNMG	090308	●	●	●
SNMG	120404	●	●	●
	120408	●	●	●
	120412	●	●	●
	120416	●	●	●
	120420	●	●	●
SNMG	120408C	●	●	●
	120412C	●	●	●
SNMG	120408ZS	●	●	●
	120412ZS	●	●	●
SNMG	120408GC	●	●	●
	120412GC	●	●	●

Description		CA310	CA315	CA320
SNMG	120408PH	●	●	●
	120412PH	●	●	●
	120416PH	●	●	●
SNMG	150612PH	●	●	●
	150616PH	●	●	●
SNMN	120408	●	●	●
	120412	●	●	●
TNMG	160404KQ	●	●	●
	160408KQ	●	●	●
TNMG	160404KG	●	●	●
	160408KG	●	●	●
	160412KG	●	●	●
TNMG	160408KH	●	●	●
	160412KH	●	●	●
	160416KH	●	●	●
TNMA	160404	●	●	●
	160408	●	●	●
	160412	●	●	●
	160416	●	●	●
	160420	●	●	●
TNMG	160404	●	●	●
	160408	●	●	●
	160412	●	●	●
	160416	●	●	●
	160420	●	●	●
TNMG	220404	●	●	●
	220408	●	●	●
	220412	●	●	●
TNMG	160404C	●	●	●
	160408C	●	●	●
	160412C	●	●	●
TNMG	160408ZS	●	●	●
	160412ZS	●	●	●
TNMG	160408GC	●	●	●
	160412GC	●	●	●
TNMG	160408PH	●	●	●
	160412PH	●	●	●
VNMG	160408KG	●	●	●
	160412KG	●	●	●
VNMG	160408KH	●	●	●
	160412KH	●	●	●
VNMG	160404	●	●	●
	160408	●	●	●
WNMG	080404KQ	●	●	●
	080408KQ	●	●	●
	080412KQ	●	●	●
WNMG	080404KG	●	●	●
	080408KG	●	●	●
	080412KG	●	●	●
WNMG	080408KH	●	●	●
	080412KH	●	●	●
	080416KH	●	●	●

Description		CA310	CA315	CA320
WNMA	080408	●	●	●
	080412	●	●	●
WNMG	080404	●	●	●
	080408	●	●	●
	080412	●	●	●
WNMG	080404C	●	●	●
	080408C	●	●	●
	080412C	●	●	●
WNMG	080408ZS	●	●	●
	080412ZS	●	●	●
WNMG	080408GC	●	●	●
	080412GC	●	●	●
WNMG	080408PH	●	●	●
	080412PH	●	●	●

Stock Items (Positive)

Description		CA310	CA315	CA320
CCMT	09T308	●	●	●
CCMT	060204GK	●	●	●
CCMT	09T304GK	●	●	●
CCMT	120404GK	●	●	●
	120408GK	●	●	●
CPMH	080204	●	●	●
	080208	●	●	●
CPMH	090304	●	●	●
	090308	●	●	●
DCMT	11T308	●	●	●
DCMT	070204GK	●	●	●
	070208GK	●	●	●
DCMT	11T304GK	●	●	●
	11T308GK	●	●	●
RCMX	1204M0	●	●	●
SPMN	120304	●	●	●
	120308	●	●	●
SPMN	120408	●	●	●
	120412	●	●	●
TCMT	110204HQ	●	●	●
	110208HQ	●	●	●
TCMT	16T308HQ	●	●	●
	16T312HQ	●	●	●
TPMT	110304HQ	●	●	●
	110308HQ	●	●	●
TPMT	160304HQ	●	●	●
	160308HQ	●	●	●
TPMR	110304	●	●	●
	110308	●	●	●
TPMR	160304	●	●	●
	160308	●	●	●
TPMN	110304	●	●	●
	110308	●	●	●
TPMN	160304	●	●	●
	160308	●	●	●
	160312	●	●	●

●: Standard Stock

CP380