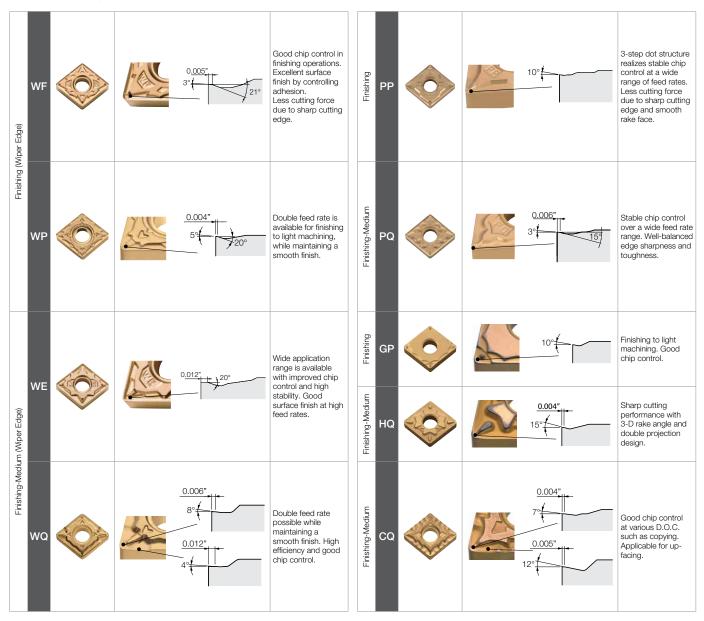
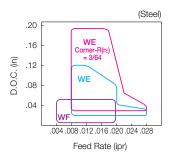
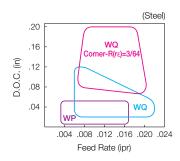
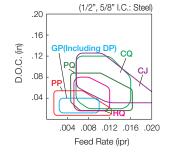
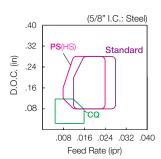
1 Molded Chipbreaker



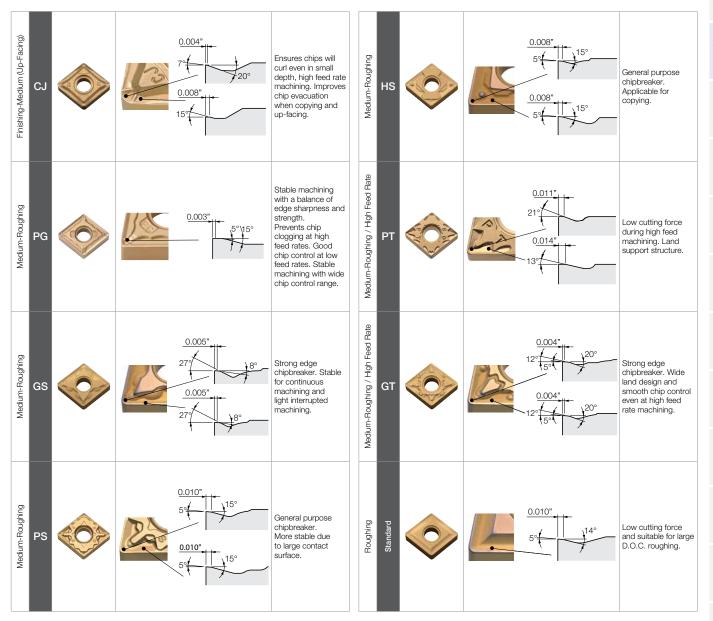




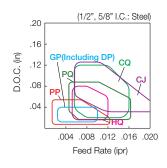


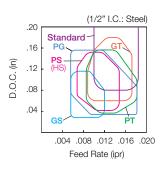


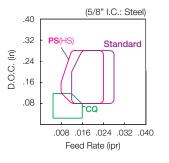
1 Molded Chipbreaker



Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)







TURNING

C

TOOLS Ε

BORING

GROOVING G

CUT-OFF Н

K

MILLING M

QUICK CHANGE TOOLING

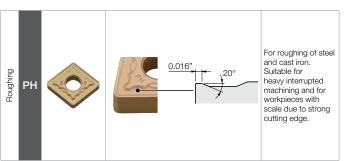
SPARE PARTS P

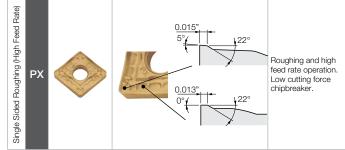
TECHNICAL

T

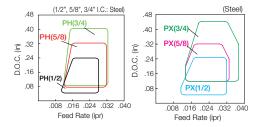
KYOCERa

1 Molded Chipbreaker

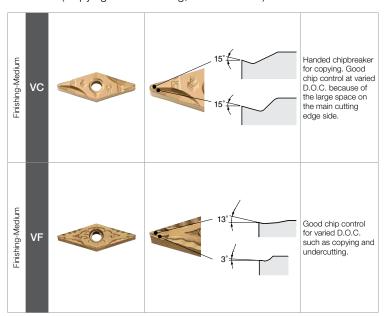


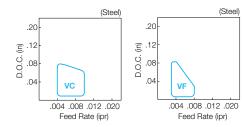


• Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)

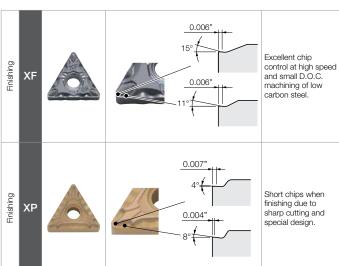


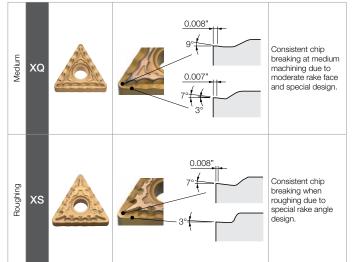
Steel (Copying / Undercutting, Varied D.O.C.)



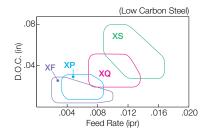


Steel (Copying / Undercutting, Varied D.O.C.)

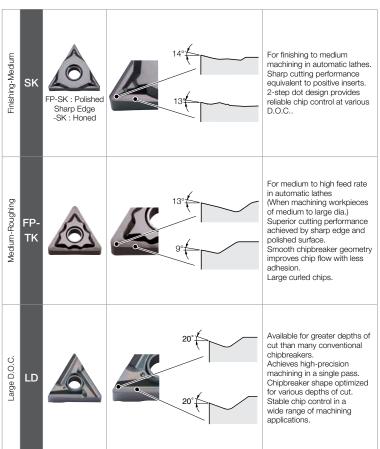




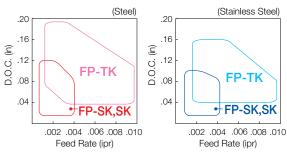
Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)

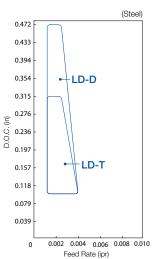


■ Steel / Stainless Steel (Small Parts Machining)



Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)





TURNING TOOLS GROOVING

C

Ε

G

Н

K

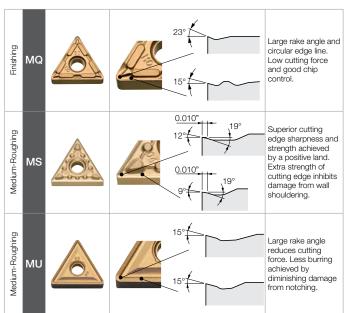
MILLING M

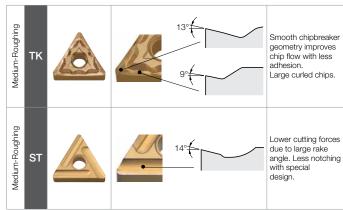
SPARE PARTS P

TECHNICAL

T

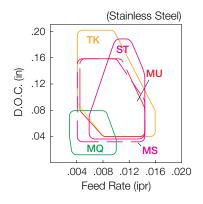
■ Stainless Steel / Heat-Resistant Alloy / Titanium Alloy





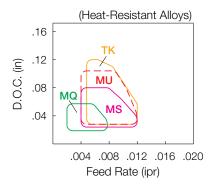
Stainless Steel

Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)



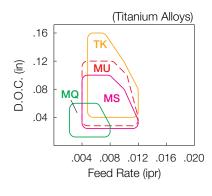
Heat-Resistant Alloy

Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)

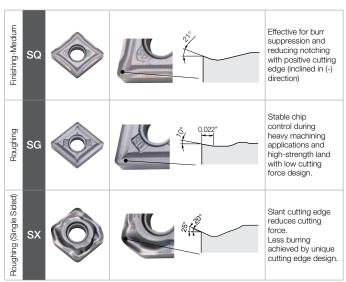


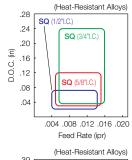
Titanium Alloy

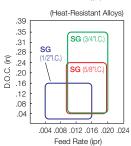
Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)

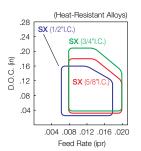


Heat-Resistant Alloy

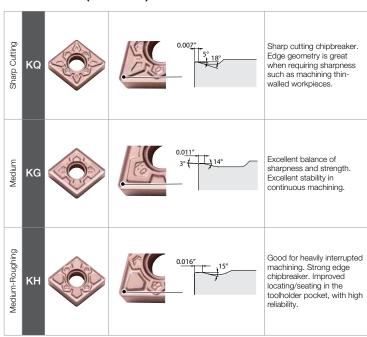




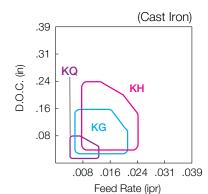




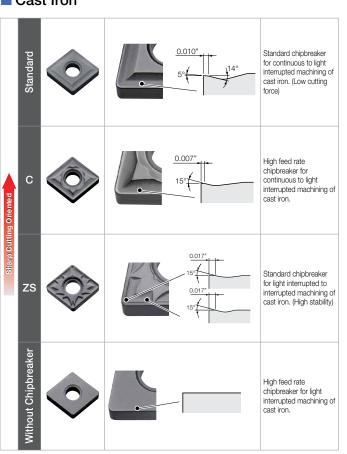
Cast Iron (K Series)

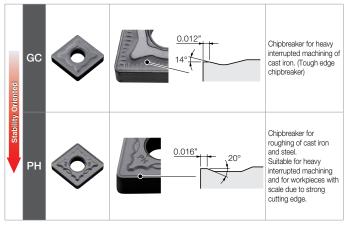


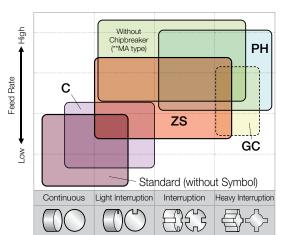
Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)



Cast Iron







TURNIN

CBN/P

TURNING

SMALL

BORING

GROOVING

H

THREADIN

K

MILLING M

QUICK CHANGE TOOLING

SPARE PARTS

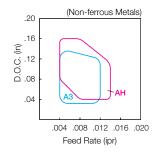
S TECHNICAL

NDE T

Non-ferrous Metals



• Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)

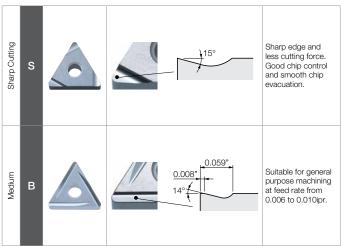


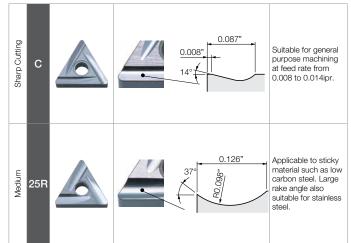
| A3 Chipbreaker | | | | | |
|----------------|-------------------------------|--|--|--|--|
| 56.3 (3 4.3 | D.O.C.= 0.08" f= 0.008 ipr | | | | |
| 000 | D.O.C.=0.08" f= 0.012 ipr | | | | |

| AH Chipbreaker | | | | |
|----------------|-------------------------------|--|--|--|
| 4) W | D.O.C.= 0.08" f= 0.008 ipr | | | |
| | D.O.C.= 0.08" f= 0.012 ipr | | | |

Visit us online at ${\bf KyoceraPrecisionTools.com}$

2 Ground Chipbreaker

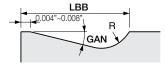




Effectiveness of Ground Chipbreaker

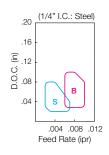
- (1) Lower cutting force and sharper cutting edge
- (2) Improved adhesion resistance
- (3) Improved dimensional accuracy and surface finish
- (4) Controlled chip flow

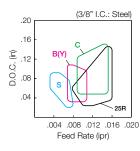
Specification of B, C, D and Parallel Ground Chipbreaker

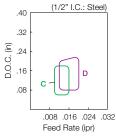


| Insert Type | I.C. Size | Chipbreaker Name | LBB (in) | GAN | R (in) |
|-------------|-----------|-----------------------------------|----------|-----|--------|
| CNGG | 3/8, 1/2 | Without Indication (Similar to C) | 0.087 | 14° | 0.040 |
| WNGG | 3/8 | Without Indication (Similar to C) | 0.087 | 14° | 0.040 |
| TNOO | 1/4, 3/8 | В | 0.060 | 14° | 0.020 |
| TNGG | 3/8, 1/2 | С | 0.087 | 14° | 0.040 |
| DNGG | 3/8, 1/2 | Without Indication (Similar to C) | 0.100 | 14° | 0.080 |
| VNGG | 3/8 | Without Indication (Similar to B) | 0.060 | 14° | 0.020 |
| SNGG | 3/8, 1/2 | В | 0.060 | 14° | 0.020 |
| | 1/2 | С | 0.087 | 14° | 0.040 |

Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)







INSERT

TURNING

CBN/PCD

TURNING

SMALL TOOLS

BORING F

GROOVING GROOVING

CUT-OFF

THREADING

DRILLING K

MILLING N

QUICK CHANGE TOOLING

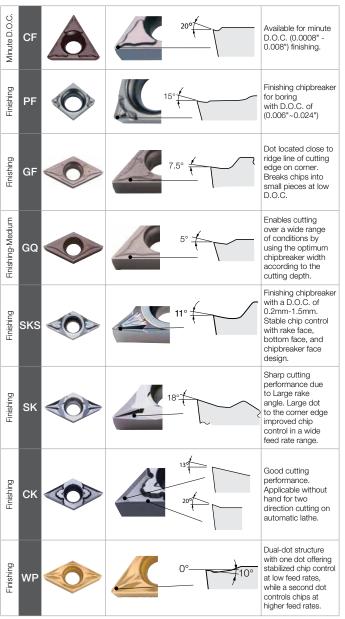
SPARE PARTS

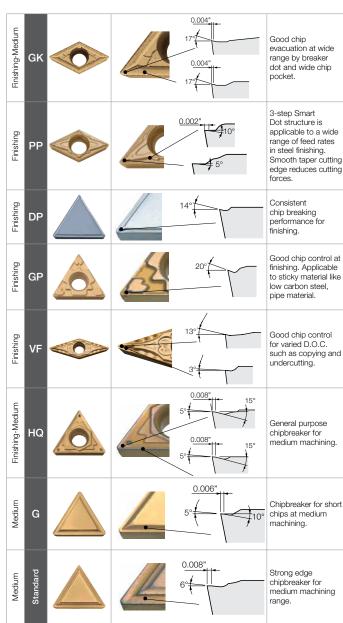
TECHNICAL

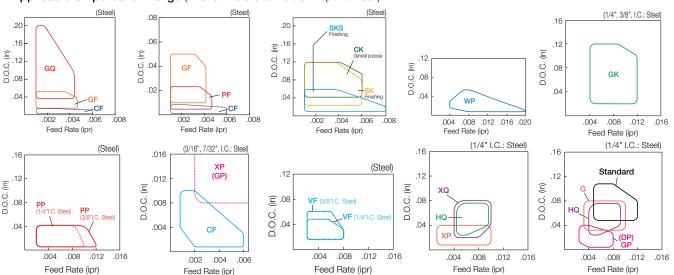
Т

KYOCERa

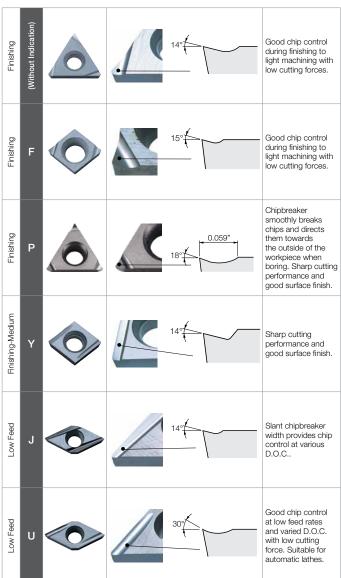
1 Molded Chipbreaker

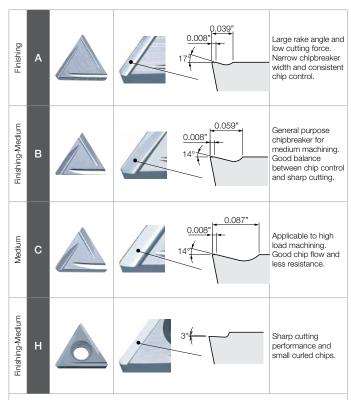




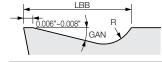


2 Ground Chipbreaker



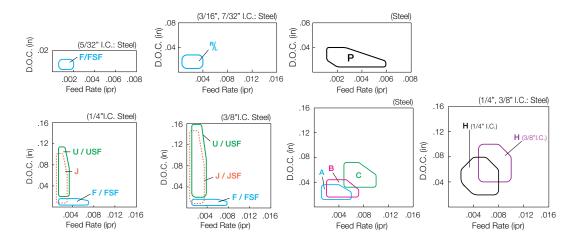


Specification of A, B, C and parallel ground chipbreaker



| Insert Type | Size | Chipbreaker Name | LBB (in) | GAN | R (in) |
|-------------|----------|-----------------------------------|----------|-----|--------|
| TPGR 1/ | 1/4 | A | 0.040 | 17° | 0.020 |
| | 1/4, 3/8 | В | 0.060 | 14° | 0.020 |
| | 3/8 | С | 0.087 | 14° | 0.040 |
| SPGR | 3/8 | Without Indication (Similar to B) | 0.060 | 14° | 0.020 |
| | 1/2 | Without Indication (Similar to C) | 0.087 | 14° | 0.040 |

• Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)



TURNING

SMALL

BORING

GROOVING

G

Н

K

MILLING M

QUICK CHANGE TOOLING

TECHNICAL

P

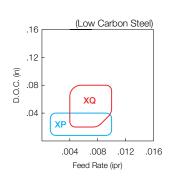
T

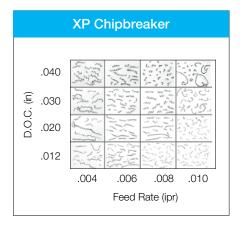
C

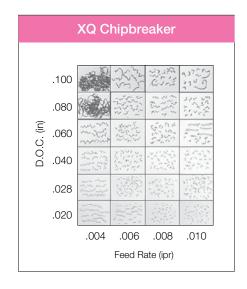
Low Carbon Steel (Pipe / Rolled Plate / Rolled Steel)



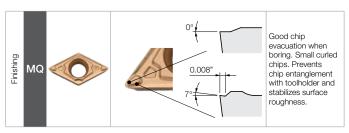
Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)



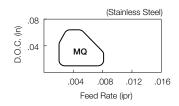




Stainless Steel



• Applicable Chipbreaker Range (D.O.C. Refers to Radial Depth of Cut)



Non-ferrous Metals

