

# CA5-SERIES INSERT GRADES

## CA5-Series NEW

CVD COATED CARBIDE GRADE FOR STEEL



### New Innovations in Steel Machining

with **CA5 Series Grades** &  
**P Series Chipbreakers**

#### CA510

Special substrate with thermal deformation resistance along with a thick and tough film coating for wear resistance

Application: High speed and high efficiency steel machining

#### CA515

Special substrate and tough coating film provides thermal deformation and high wear resistance

Application: Continuous to light interrupted steel machining (general use)

#### CA525

Special substrate and tough coating film provides high wear and fracture resistance

Application: **1st Choice** for steel machining

#### CA530

Special tough substrate and tough coating film provides high stability and wear resistance

Application: General to heavy interrupted machining (stability oriented)

#### High Adhesion Strength Coating Layer with Ultra Fine Interface

Long tool life and stable machining with **40%** improved adhesion strength!

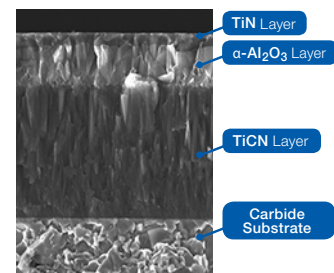
#### Smooth and Flat Surface Reduces Cutting Forces

Sharp cutting and stable machining with a smooth, flat surface preventing sudden breakage caused by material welding onto the cutting edge

#### Innovative Coating Layers Produce Superior Hardness and Toughness

Special crystal control technology

Long tool life with the high aspect ratio of  $\alpha$ -Al<sub>2</sub>O<sub>3</sub> layer



GRADES	A
INSERTS	B
CBN & PCD	C
TURNING	E
BORING	F
GROOVING	G
CUT-OFF	H
THREADING	J
SOLID END MILLS	L
MILLING	M
SPARE PARTS	P
TECHNICAL	R
INDEX	T