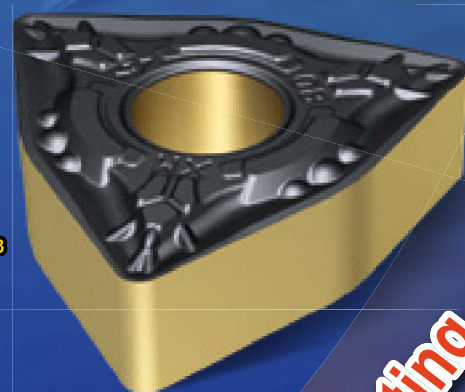


### New cemented carbide matrix

The composition and microstructure optimized by thermodynamic and kinetic theoretical models have significantly improved the product's resistance against plastic deformation and wear under high temperature.

Grain adjustment technology and the cubic phase grains being finer and more evenly distributed have optimized the insert's performance under high temperature. The coupling change of the bonding property and solid solution gradient have enhanced the strength of the cutting edge.

# YBC103



### Fine-grained columnar structure $\text{Al}_2\text{O}_3$ ultra-thick coating technology

Outstanding high temperature performance and wear resistance, two-color marking layer and ultra-smooth  $\text{Al}_2\text{O}_3$  coating rake face account for the improved smoothness and uniformity of the cutting edge and the enhanced surface processing quality.

### Hydrogen peroxide gradient transition layer technology

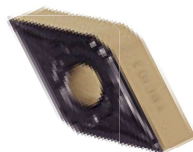
The hydrogen peroxide gradient transition layer adopts PCN technology, which produces fine and dense coating grains, and therefore further improves its high temperature performance and oxidation resistance of the insert.

**A new generation of high performance CVD coating**

With improved cutting edge's strength, wear resistance and high temperature oxidation resistance, YBC series of coating grades work efficiently in steel processing.

### -XF Chip breaker for finishing

- Curved edge inclination ensures the strength of the cutting edge and reduces cutting resistance.
- The full-curved structure improves its versatility.
- Moreover, the special chip breaker design ensures improved chip control performance within the finishing range.



### -XM Chip breaker for semi-finishing

- With the specially designed cutting-edge structure to ensure its sharpness and strength, the newly designed chip breaker geometry, and innovative coating grades, the cutting edge is superior in its strength and wear resistance.
- Its performance is both stable and efficient.



### Application range

