The latest CBN generation – hard machining at the highest level.

NEW

THE INDEXABLE INSERTS

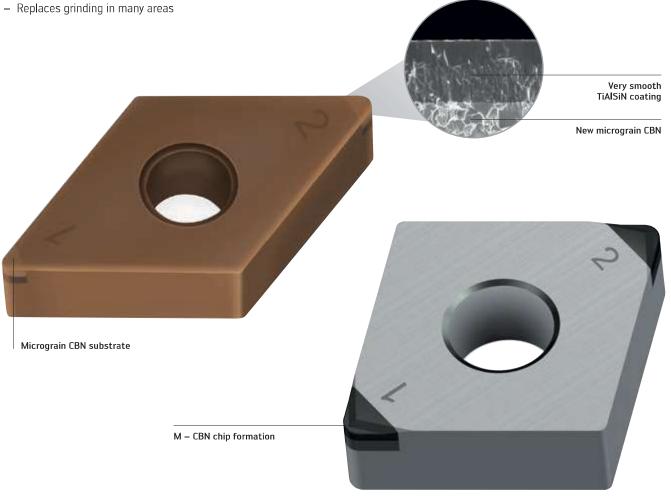
- New CBN grades for hard machining
- Technology update for chip formation and wiper geometry

THE APPLICATION

- Hard materials up to 65 HRC
- ISO H materials
- For continuous and interrupted cuts

THE COATING TECHNOLOGY

- New TiAlSiN coating technology
- Finest surface structure and layer smoothness
- Defect free coating and superb layer adhesion
- Very high thermal stability and oxidation resistance



ISO H CBN indexable inserts

Fig.: DNGA150608TM-2 WBH10C, CNGA120408TM-M2 WBH10



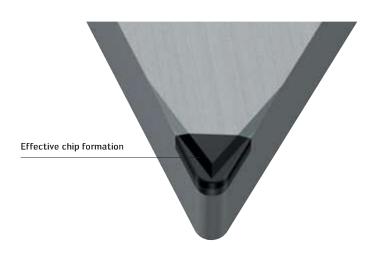
Watch the product video: www.youtube.com/waltertools

BENEFITS FOR YOU

- Optimum component surface finish thanks to the latest wiper technology
- High process reliability thanks to the latest production technology
- Long tool life thanks to the TiAlSiN coating technology with extremely fine surface structure

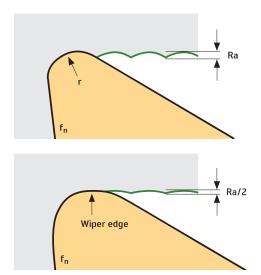
THE CHIP FORMATION

- M CBN chip formation
- Controlled chip removal
- Series production without interruptions



THE WIPER GEOMETRY

- MW wiper geometry
- Higher feed
- Better surface quality

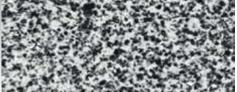


THE CBN GRADES*

WBH10C (ISO H10)

- CBN substrate (grain size dia. 1.5 μ m)
- Coated with new TiAlSiN coating technology
- Wear-resistant at highest v_c





WBH10 (ISO H10)

- CBN substrate (grain size dia. 1.5 μ m)
- Wear-resistant at high v_c

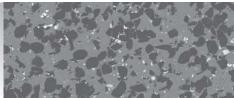




WBH20 (ISO H20)

- CBN substrate (grain size dia. 2.0 μm)
- Wear-resistant with interrupted cuts and medium $\boldsymbol{v}_{\text{C}}$
- * Substrate grain sizes: Micrograin 1.5 μ m | Fine grain 2.0 μ m





Finishing heat-resistant high-temperature alloys at 250 m/min.

NEW

THE INDEXABLE INSERT

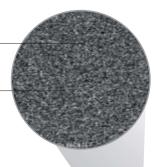
- New CBN grades for ISO S materials
- Optimised microgeometry for longer tool life

THE APPLICATION

- Continuous and interrupted-cut finishing operations
- Areas of use: Aerospace industry, general mechanical engineering

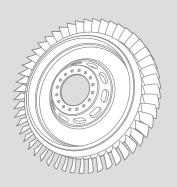
Optimised microgeometry for longer tool life

Micrograin CBN with ceramic binder



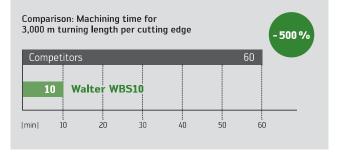
APPLICATION EXAMPLE

Facing – blisk



Material:	(2.4668)	
Tool:	SVHCL2525M16	
Indexable insert:	VCGW160408EM-2	
Grade:	WBS10	
	Competitors	
	Carbide	Walter CBN
	ISO S	WBS10
v _c (m/min)	50	250
f (mm)	0.10	0.10
a _p (mm)	0.25	0.25
Unwound turning length/ hour (m)	3,000	15,000
Comment	Structural changes	No structural changes

Inconel 718-42HRc





CBN indexable insert - ISO S

Fig.: CNGA120408-EM2 WBS10



Watch the product video: www.youtube.com/waltertools

BENEFITS FOR YOU

- High machining speeds with CBN compared to carbide
- No structural changes in the cutting zone
- Higher output thanks to shorter machining times

The new CBN generation for cast iron and sintered metals.

NEW

THE INDEXABLE INSERT

- New CBN grades for ISO K and H materials
- Optimised microgeometry design for the relevant application

THE APPLICATION

WBK20

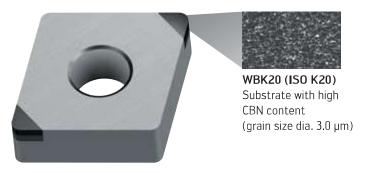
- ISO K materials: Finishing

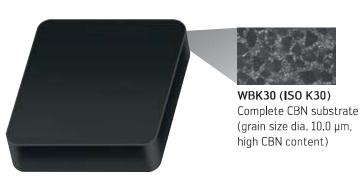
WBK30

- ISO K materials: Roughing
- ISO H materials: Machining with large depths of cut

WBK20 + WBK30

- Sintered materials: Roughing and finishing
- ISO H materials: Finishing with heavily interrupted cuts
- Areas of use: Automotive industry, general mechanical engineering, among others





CBN indexable inserts

Fig.: CNGA120408TS-2 WBK20/CNGN120412TM-S WBK30

BENEFITS FOR YOU

- Maximum tool life in ISO K and ISO H thanks to new CBN grades
- Highly productive and reliable due to high-precision manufacturing
- Wear-resistant in cast iron and sintered steel (WBK20) and at high a_p in hardened steel (WBK30)

APPLICATION EXAMPLE WBK20 - spindle boring the casing Material: GG25 - EN-GJL-250 B3230.C8.135-178.Z1.CC06 Indexable insert: CCGW060204TS-2 Grade: WBK20 **Cutting data:** Competitors Walter WBK20 v_c (m/min) 190 250 f (mm) 0.07 0.07 0.5 0.5 a_p (mm) Comparison: Tool life quantity [units] + 100 % 100 Competitors Walter WBK20 200 [Units] 100 150

