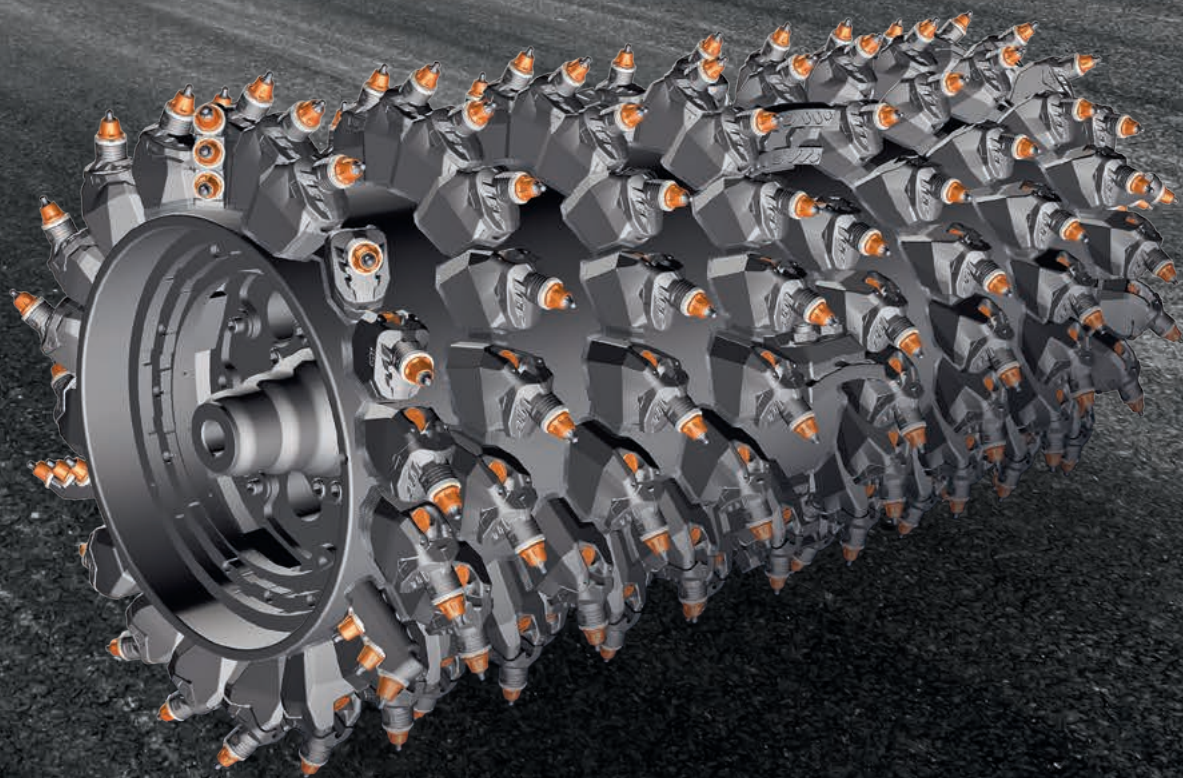


A JOHN DEERE COMPANY



**WIRTGEN GROUP**

Original WIRTGEN  
**CUTTING TOOLS FOR  
COLD MILLING MACHINES**



**CLOSE TO OUR CUSTOMERS**



# ORIGINAL WIRTGEN CUTTING TOOLS FOR COLD MILLING MACHINES

OPTIMUM CARBIDE UTILISATION,  
EXCEPTIONALLY HIGH CUTTING  
PERFORMANCE, EXTREMELY LONG  
SERVICE LIFE







CUTTING TECHNOLOGY HAS ALWAYS TAKEN A TOP PRIORITY IN THE WIRTGEN GROUP. THAT IS WHY WE EMPHASISE CONSTANT OPTIMISATION DURING DEVELOPMENT AND PRODUCTION OF OUR KEY TECHNOLOGY, COLD MILLING MACHINES.

- > THE ALL-ROUNDER AMONG PICKS FOR COLD MILLING, GENERATION X<sup>2</sup>, IMPRESSES THANKS TO ITS EXCEPTIONAL PRODUCT FEATURES SUCH AS THE OPTIMISED WEAR PLATE WITH ITS UNIQUE GROOVE PROFILE.
- > PCD MILLING TOOLS WITH A HIGHLY WEAR-RESISTANT TOOL TIP MADE OF POLYCRYSTALLINE DIAMOND ARE THE IDEAL CHOICE FOR SURFACE COURSE REHABILITATION AND (MICRO) FINE MILLING. THEY ARE THE PERFECT COMPLEMENT TO THE ALL-ROUND GENERATION X<sup>2</sup> PICKS.

MORE INFO?  
SEE OUR ANIMATION CLIPS ON  
CUTTING TECHNOLOGY



> [www.wirtgen.de/cuttingtechnology](http://www.wirtgen.de/cuttingtechnology)

> OPTIMISED CARBIDE  
DISTRIBUTION

> SOLID STEEL  
BODY GEOMETRY

> REINFORCED WEAR PLATE  
WITH IMPROVED SHAPE

> UNIQUE GROOVE PROFILE  
WITH PIONEERING  
CENTRING FUNCTION

> TIME-TESTED WIRTGEN  
CLAMPING SLEEVE





# All-rounder for cold milling GENERATION X<sup>2</sup> PICK

The **GENERATION X<sup>2</sup>** picks excel due to unique product features, which make them easier to handle on the construction site and reduce operating costs significantly.

Thanks to the newly developed wear plate with a special groove profile, centring is improved and rotation performance demonstrably opti-

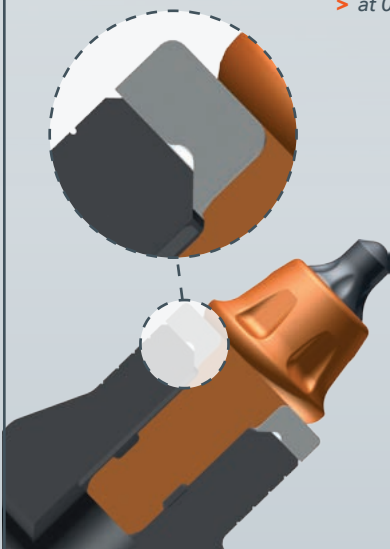
mised. This ensures that the carbide retains its high cutting performance and guarantees optimum carbide utilisation.

The groove profile also reduces lengthwise wear in the pick toolholder and increases service life by more than 25%.

## Self-stamping of the toolholder centring profile through use of the **GENERATION X<sup>2</sup>**

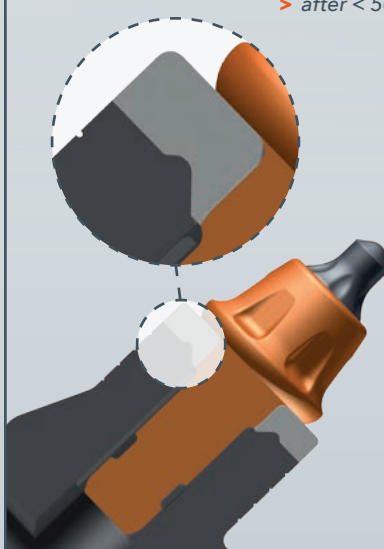
> W6/20X<sup>2</sup> with flat pick contact surface

> at 0 h



> W6/20X<sup>2</sup> with pronounced centring profile

> after < 50 h



> **GENERATION X<sup>2</sup>**: Carbide is the most economical solution as a cutting material for inhomogeneous materials being milled with abrupt peak loads to be expected. The all-round **GENERATION X<sup>2</sup>** carbide picks thus provide the optimum solution for every application, no matter whether you need to handle hard or soft asphalt or are milling concrete.



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## Good arguments for **A LONG LIFE CYCLE AND CUTTING PERFORMANCE**

### IMPRESSIVE

- > **Increased service life for upper part of the toolholders by more than 25%** due to the unique groove profile on the wear plate lower surface of the **GENERATION X<sup>2</sup>** picks
- > **Enormous versatility** in the well-conceived **GENERATION X<sup>2</sup>** pick product range for a whole variety of construction-site-specific requirements
- > **High operational reliability for the newly conceived, adapted carbide tip geometry** to absorb maximum loads and minimise risk of carbide breakage

### > **OPTIMISED CARBIDE DISTRIBUTION**

The **GENERATION X<sup>2</sup>** carbide tip impresses not only due to an improved cutting performance, but also thanks to even greater stability. This has reduced the risk of breakage significantly.

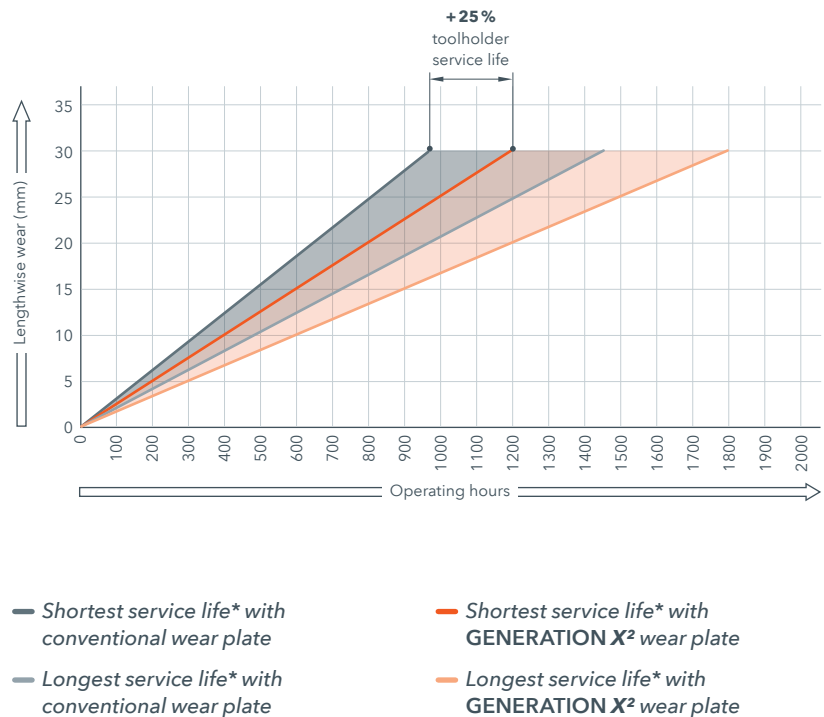
### > **SOLID STEEL BODY GEOMETRY**

The steel body's solid geometry improves chip evacuation and increases the pick's service life considerably. The pick head height has been lowered to ensure optimal use of the significantly thicker wear plate with its special groove profile. The increased steel volume in the wear-critical range also guarantees a significantly longer service life for the cutting tool.





### Lengthwise wear in the toolholder



\* The service life can vary depending on machine type and application.

#### > REINFORCED WEAR PLATE WITH IMPROVED SHAPE

The reinforced wear plate protects the toolholder against wear by abrasive milled material. Moreover, the flat wear plate geometry delivers improved rotation behaviour in the **GENERATION X²** picks.

#### > UNIQUE GROOVE PROFILE WITH PIONEERING CENTRING FUNCTION

The toolholder service life has increased by more than 25% thanks to the special groove profile with its pioneering improved centring function. A centring profile is incorporated into the pick toolholder's contact surface after the **GENERATION X²** pick has been used for less than 50 operating hours. This means that conventional toolholders can also benefit from the advantage of **GENERATION X²**.

#### > TIME-TESTED WIRTGEN CLAMPING SLEEVE

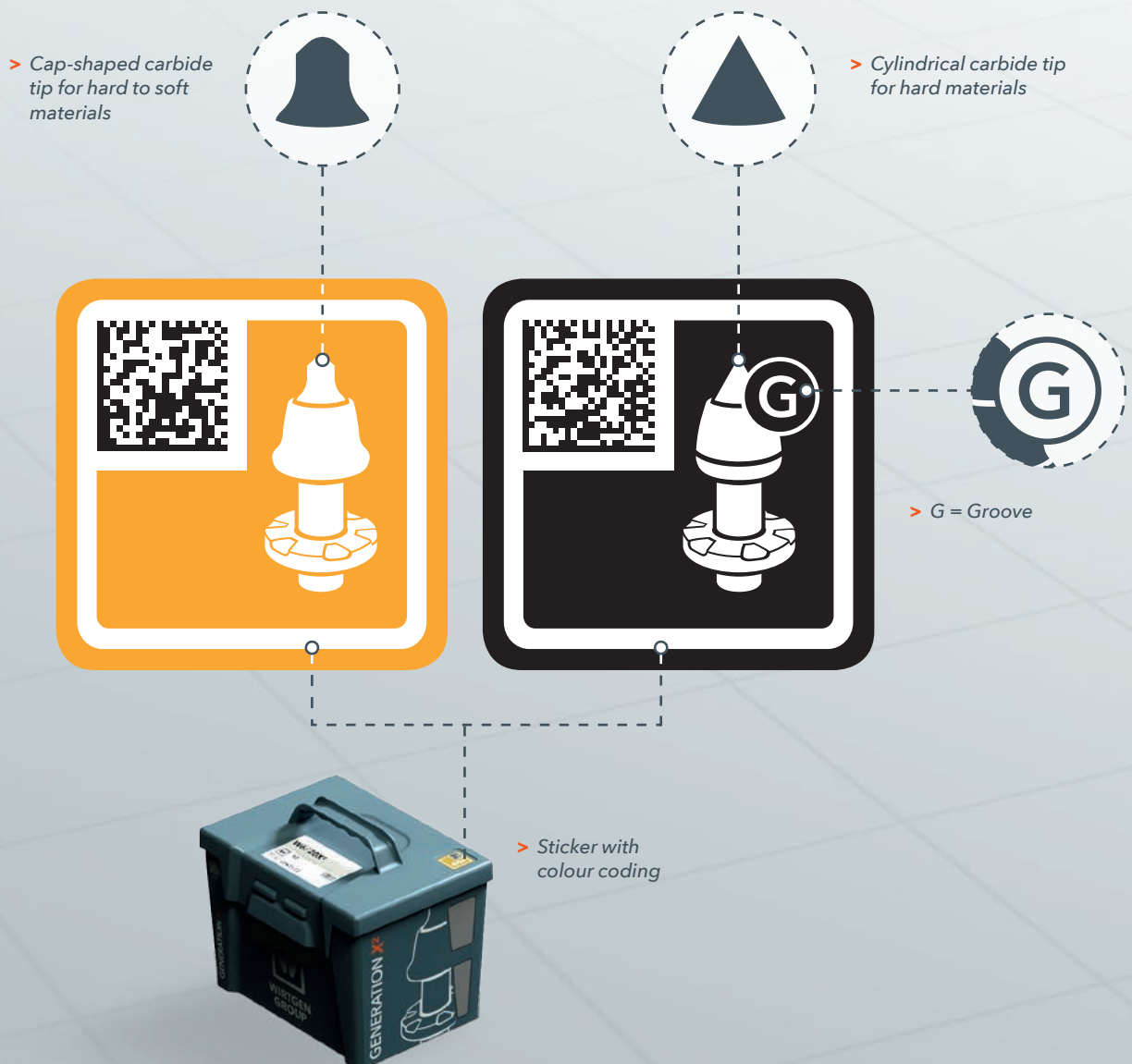
Time-tested WIRTGEN clamping sleeve permanently fixes the pick precisely into its pick toolholder.





# PRACTICAL COLOUR CODING












It is now much easier to select the right pick for use even more quickly thanks to the practical **GENERATION X<sup>2</sup>** colour coding. The different carbide sizes are marked by different colours (e.g. W1-10-G ... = black; W6 ... = orange, etc.). The letter G (for groove) on the pick symbol allows the user to determine instantly whether picks have an extraction groove or not.





# RECOMMENDATION FOR APPLICATION

GENERATION X<sup>2</sup>: THE ALL-ROUNDER  
AMONG PICKS

Material to be milled	Carbide size	Performance class, machine type		Small milling machines			Compact milling machines	Large milling machines
		Pick designation, Part No.		0.35 m	0.5 m	1 m rear		
		with extractor groove	without extractor groove	W 35 DC, W 35 Ri	W 50, W 50 H, W 55 H, W 50 DC, W 50 R, W 60 R	W 60, W 100 (L), W 100 (H), W 100 R, W 130 H	W 100 F, W 120 F, W 130 F, W 100 CF, W 120 CF, W 130 CF, W 150, W 150 CF	W 1500, W 1900, W 195, W 2000, W 200, W 200 F, W 207 Fi, W 205, W 200 H, W 215, W 210, W 210 Fi, W 210 XP, W 2100, W 220, W 2200, W 250, W 240 CR, W 380 CR
Asphalt (cap-shaped carbide tips)	W4	 <b>W4-G/20X<sup>2</sup></b> # 2642519		● ●	● ●	●	○	○
	W5	 <b>W5-G/20X<sup>2</sup></b> # 2642520	 <b>W5/20X<sup>2</sup></b> # 2642521	○	●	● ●	●	○
	W6	 <b>W6-G/20X<sup>2</sup></b> # 2642522	 <b>W6/20X<sup>2</sup></b> # 2642523	○	○	●	● ●	●
	W7	 <b>W7-G/20X<sup>2</sup></b> # 2642530	 <b>W7/20X<sup>2</sup></b> # 2642532	○	○	○	●	● ●
	W8	 <b>W8-G/20X<sup>2</sup></b> # 2642535	 <b>W8/20X<sup>2</sup></b> # 2642537	○	○	○	○	●
Concrete (cylindrical carbide tips)	W1	 <b>W1-10-G/20X<sup>2</sup></b> # 2642516		● ●	● ●	● ●	● ●	●
		 <b>W1-13-G/20X<sup>2</sup></b> # 2642517		○	○	○	○	● ●



Highly  
recommendable



Recommendable



Conditionally  
recommendable

Specifications also valid for all  
machines in "i" version



PCD

MILLING TOOLS

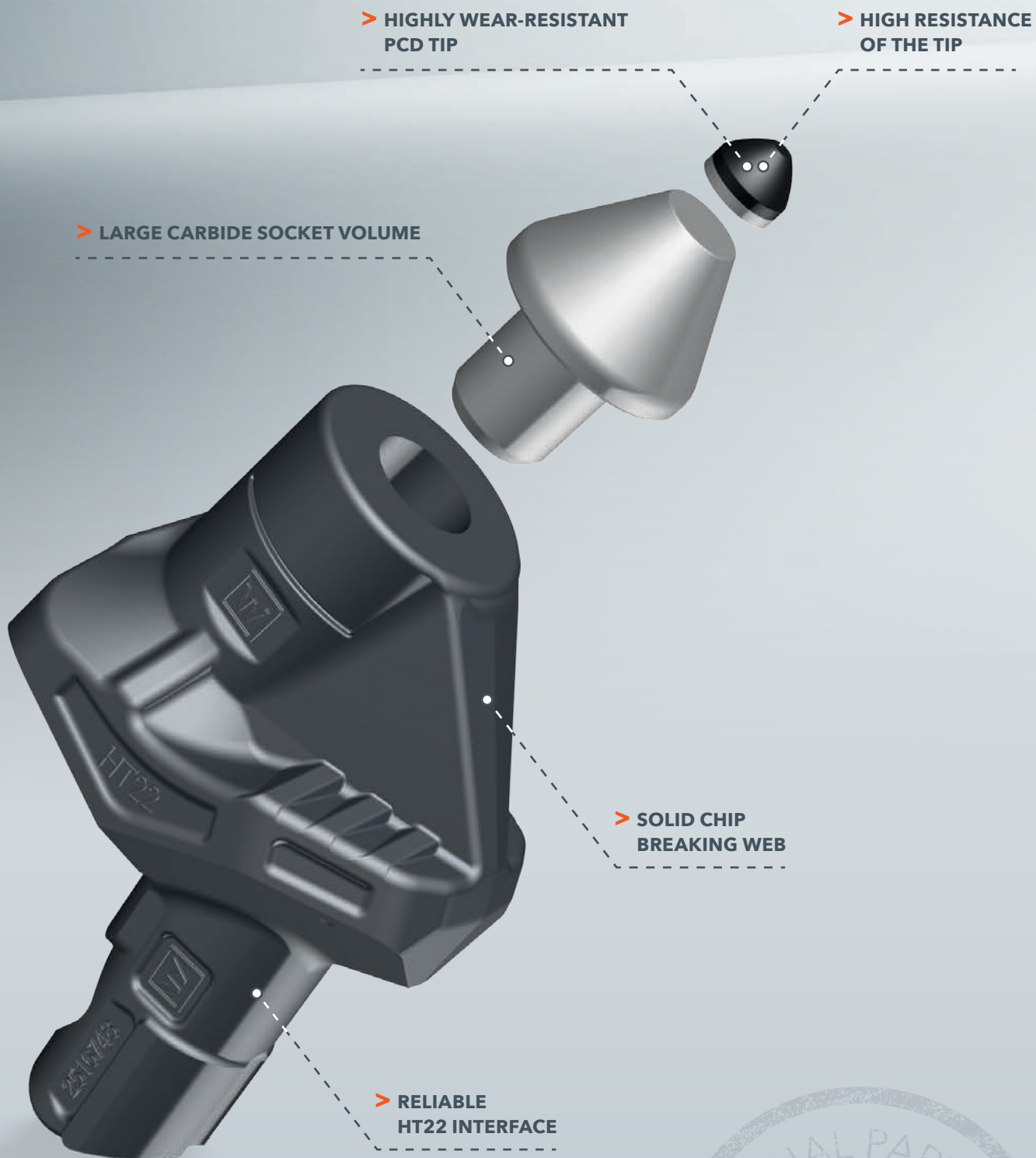
IDEAL FOR SURFACE COURSE  
REHABILITATION AND (MICRO) FINE MILLING



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Specialist in surface course rehabilitation  
and (micro) fine milling

## PCD MILLING TOOLS

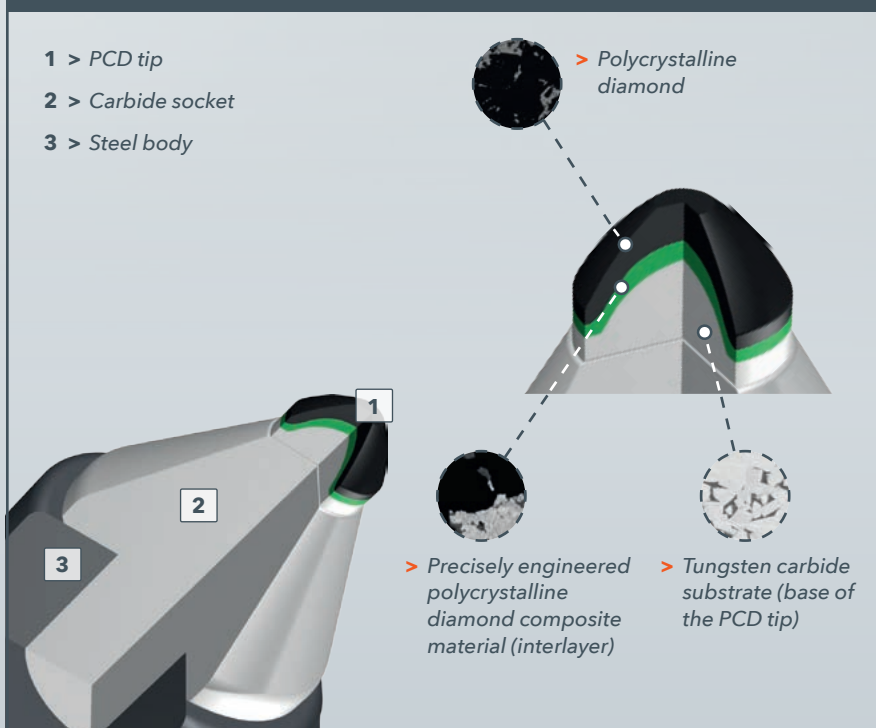
PCD milling tools are perfectly suitable for surface course rehabilitations and (micro) fine milling applications due to their tool geometry and materials.

They feature a highly wear-resistant tool tip made of polycrystalline diamond (PCD) with an extremely long service life.

The very slight lengthwise wear ensures optimum evenness over the milled surface and consistently high machine feed.

Depending on their application, PCD milling tools are a useful addition to the existing pick range featuring conventional carbide tips.

Schematic figure of a PCD tip



> **PCD milling tools:** Polycrystalline diamond (PCD) is the optimal solution as a cutting material for homogeneous asphalt packages, particularly where no abrupt peak loads are expected. PCD milling tools are particularly ideal as an economical alternative for surface course rehabilitations up to 8 cm and for (micro) fine milling applications.

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## Good arguments for **PRODUCTIVITY AND EVEN MILLED SURFACES**

### IMPRESSIVE

- > **Constant milling pattern** due to significantly reduced lengthwise wear
- > **Increased machine productivity** thanks to fewer or no tool replacements and a consistently high machine feed
- > **Lower operating costs** thanks to lower maintenance requirements

### > **HIGHLY WEAR-RESISTANT PCD TIP**

The significantly reduced lengthwise wear of the PCD tip results in a consistent, even milling pattern for the tool's entire service life.

### > **HIGH RESISTANCE OF THE TIP**

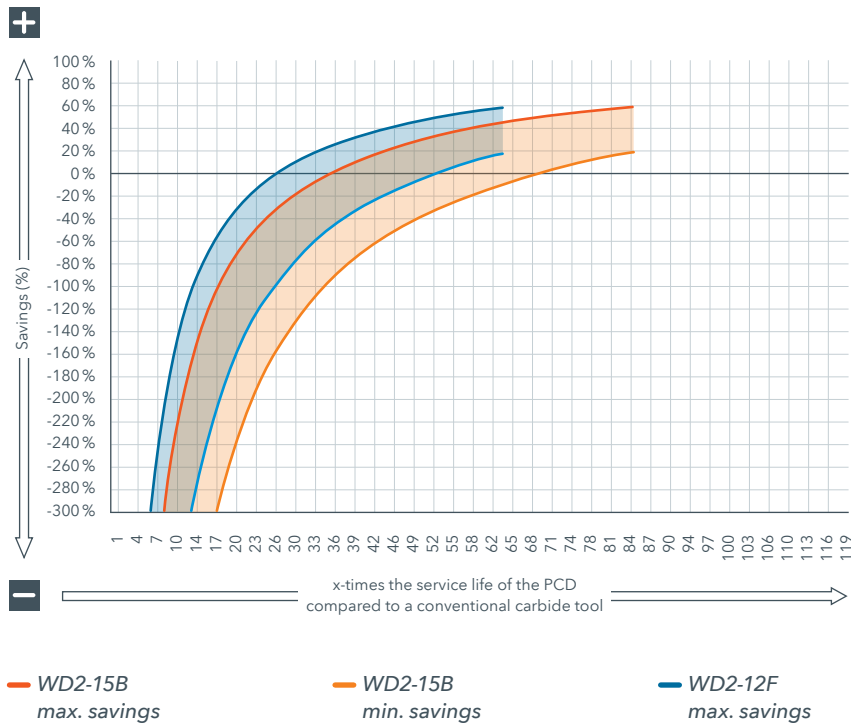
So called interlayers dampen impacts caused between the carbide carrier and the highly wear-resistant polycrystalline diamond contact surface during penetration and thus ensure the high resistance of the PCD tip.

### > **LARGE CARBIDE SOCKET VOLUME**

The carbide socket for the PCD tip is extremely voluminous. This ensures greater wear resistance and optimal use of the polycrystalline diamond tip.



## PCD Performance Evaluation



> When considering all variables and, above all, the applications, savings on tool costs of up to about 60% per milled ton can be achieved. The analysis only takes into account possible tool costs and maintenance expenses. Other potential cost savings such as fuel savings are not considered in the graph.

### > SOLID CHIP BREAKING WEB

The potential service life is extended thanks to the solid chip breaking web, which protects the carbide socket from washout for considerably longer.

### > RELIABLE HT22 INTERFACE

The reliable HT22 interface ensures low-maintenance, dependable use of WIRTGEN PCD milling tools.

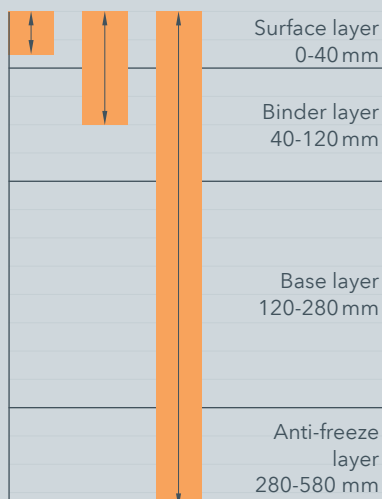
# RECOMMENDATION FOR APPLICATION

## PCD MILLING TOOLS AS OPTIMUM ADDITION TO GENERATION X<sup>2</sup>

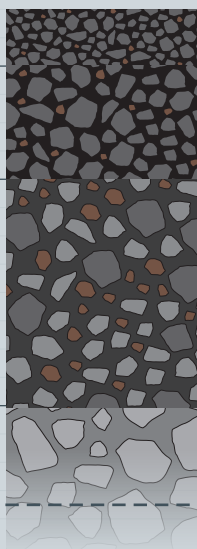
### Recommendation for cutting tool application depending on material and milling drum

#### RECOMMENDED MILLING DEPTHS FOR LINE SPACINGS OF MILLING DRUM

LA5/LA6  
LA8/LA10  
LA12/LA15/LA18



#### CLASSIC STRUCTURE OF AN ASPHALT ROAD



#### CARBIDE TOOLS



> GENERATION X<sup>2</sup>

#### PCD TOOLS



> WD2-15B/HT22



> WD2-12F/HT22

> The decision on whether to use carbide or PCD milling tools depends on the required surface texture and generally expected milling depth. In the case of low milling depths, a PCD milling tool is recommended for both wide and narrow line spacings (LA). A PCD milling tool can achieve maximum efficiency particularly for narrow line spacings with a low milling depth.

Highly  
recommendable





Recommendable

Conditionally  
recommendable



## OPTIMAL FOR SURFACE COURSE

## REHABILITATION AND (MICRO) FINE MILLING

Material to be milled	Performance class, machine type		Compact milling machines and large milling machines						
			W 100 F, W 120 F, W 130 F, W 100 CF, W 120 CF, W 130 CF, W 150, W 150 CF, W 1500, W 1900, W 195, W 2000, W 200, W 200 F, W 207 Fi, W 205, W 200 H, W 215, W 210, W 210 Fi, W 210 XP, W 2100, W 220, W 2200, W 250, W 240 CR, W 380 CR						
	Tool designation, Part No.		Line spacing of milling drum						
	HT11	HT22	LA5	LA6	LA8	LA10	LA12	LA15	LA18
Asphalt	  <b>WD2-12F/HT11</b> # 2564368	  <b>WD2-12F/HT22</b> # 2540437	● ●	● ●	● ●	● ●			
	  <b>WD2-15B/HT11</b> # 2564369	  <b>WD2-15B/HT22</b> # 2516748	●	●	●	●	○	○	○

Highly  
recommendable

Recommendable

Conditionally  
recommendableSpecifications also valid for  
all machines in "i" version

# HT22 QUICK-CHANGE TOOLHOLDER SYSTEMS

## HT22 **PLUS** UPPER PART

> Greater wear volume in the shoulder section improves the protection of the lower part of the toolholder when milling abrasive materials over a long period of time.\*

> Reduction in maintenance requirements thanks to greater intervals for torque control of the quick-change toolholder screws (every 500 hours).



> An innovative centring imprint on the pick contact surface in combination with **GENERATION X<sup>2</sup>** picks ensures a maximum toolholder service life right from the very start. (see figure below).\*

> Long service life for upper parts thanks to the enormously large wear path.

> Optimised shank geometries (larger transition radii) with extra improved heat treatment allow maximum loads.\*

### IMPRESSIVE

- > Maximum cost-benefit ratio thanks to harmonised system components. The centring imprint on the **HT22 PLUS** upper part stabilises the **GENERATION X<sup>2</sup>** pick in its optimal position, supporting the rotary movement.
- > Increased operational reliability in the upper part of the toolholders thanks to a reworked toolholder shank geometry and optimised heat treatment. This allows enormous loads to be absorbed.
- > High machine availability due to maximum service life, ensured by the increased wear volume in the shoulder section on the upper part of the toolholder. This modification guarantees maximum protection of the lower part.



\*Available with **HT22 PLUS** upper part only





MILLING DRUMS WITH HT22 QUICK-CHANGE TOOLHOLDER SYSTEM

> PCD milling tools



> HT22 dummy



> HT22 PLUS (ø 20 mm)



> W6/20X<sup>2</sup>



> W7-G/20X<sup>2</sup>

etc.



> HT22 D22 (ø 22 mm)



> W8/22Z



> W1-17/22Z

etc.

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# INNOVATIVE, ERGONOMIC TOOLBOX

> Label with item identification, part number and the number of tools contained.

> Ergonomic handle for improved carrying comfort.

> QR code safety instructions are available at any time and can be accessed online.

> Ergonomic opening tab to open the toolbox more easily.






The modern toolbox impresses due to its considerably enhanced carrying comfort. Thanks to its ergonomic handle, it can be comfortably carried over longer distances. Other comfort features: the colour-coded sticker enables users to select picks more quickly, and the side inspection window provides an optimal view of the content.

> Stickers with colour code make it easier to select the required tools depending on the application and the machine type used.

> Inspection window for optimal view to identify the content more easily.



A man with a beard and mustache, wearing a high-visibility yellow safety jacket with reflective silver stripes, is shown in profile, looking down at a piece of machinery. The background is blurred, showing industrial equipment.

**THE MANY YEARS OF PRACTICAL EXPERIENCE  
WE HAVE ACCUMULATED ON JOB SITES  
ACROSS THE WORLD ARE CHanneLED  
INTO THE DEVELOPMENT OF OUR  
WIRTGEN GROUP ORIGINAL SPARE PARTS.**

Tailored precisely to the requirements of our powerful machines, they optimally support maximum machine performance.

With WIRTGEN GROUP original parts, you can feel secure in the knowledge that you are doing the best thing for your machine fleet. Even a short machine breakdown costs time and money. That's why you should trust in the benefits that can only be delivered by original parts, manufactured using the very latest production methods: the best quality for maximum reliability and long life.





## WIRTGEN GROUP original parts **ONLY ORIGINAL PARTS WILL MEET YOUR REQUIREMENTS**

### PROMPT DELIVERY

Our local service specialists will give you comprehensive advice on your purchase and ensure that your order proceeds swiftly and smoothly. Our globally well organised spare parts store and our cleverly conceived logistics system enable us to ship the required original part promptly and reliably to anywhere in the world, even to countries with lengthy import procedures. The reliable WIRTGEN GROUP spare parts service will reach even the remotest of job sites.

WIRTGEN GROUP original parts – maximum reliability, long life and rapid availability.

### HOW YOU BENEFIT

- > **HIGHEST QUALITY:** *For a long machine life*
- > **IDEAL AVAILABILITY:** *Rapid delivery thanks to high storage capacities and the very latest logistics*
- > **EXPERT ADVICE:** *Service specialists with sound technical knowledge*
- > **FIRST-CLASS SUPPORT:** *Fast, reliable order processing*
- > **IDEALLY SORTED:** *Extensive, thematically coordinated service and maintenance packages*





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