

**A**

Turning

## Indexable insert drill



<b>ZD03</b>	<b>ZTD02</b>	<b>ZTD03</b>	<b>ZTD04</b>	<b>ZTD05</b>	
16-58	13-50	13-50	13-50	17-50	Diameter
C16	C8	C10	C12	C14	Page

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Milling

## Drilling inserts



<b>SPGT-EM</b>	<b>SPGT-PM</b>	<b>WCMX-53</b>	<b>WCMX-D</b>	<b>WCMX-PG</b>	
05 06 07 09 11 14	05 06 07 09 11 14	03 04 05 06 08	05 06 08	03 04 05 06 08	Edge length
C19	C19	C20	C20	C20	Page

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**PM** **P M K**



For machining of steel, stainless steel and cast iron.

**EM** **P M S**



For machining of steel, stainless steel and heat-resistant alloys.

**PG** **P K**



For machining of steel and cast iron.

**D** **P M K**



For machining of steel, stainless steel and cast iron.

**53** **P M K N**



For machining of steel, stainless steel, cast iron and non-ferrous metals.

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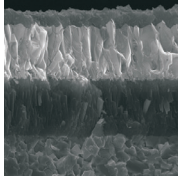

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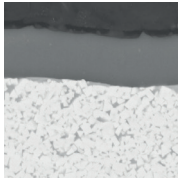
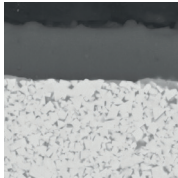
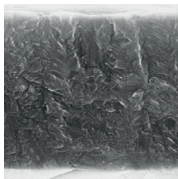
## Coated cemented carbide CVD

Grade	ISO	Micro structure	Grade description
<b>YB6338</b>	P20 - P40 K20 - K40		CVD coated P20-P40/K20-K40 carbide substrate for operation with higher cutting speed and feed rate in steel and cast iron.
<b>YBD252</b>	K20 - K35		CVD coated K20-K35 carbide substrate. Optimized for medium to roughing operation of cast iron and Steel. Good wear resistance and toughness at higher cutting speed.

**B**

Milling

## Coated cemented carbide PVD

Grade	ISO	Micro structure	Grade description
<b>YBG202</b>	P10 - P30 M10 - M25		PVD coated M10-M25/P10-P30 carbide substrate for finishing to medium application of stainless steel and steel (milling). Good wear resistance in a wide application field.
<b>YBG205</b>	P10 - P30 M20 - M40 S15-S25		PVD multilayer coated P10-P30/M20-M40/S15-S25 carbide substrate for finishing to medium application of stainless steel, super alloy and steel (milling). Good wear resistance and thermal stability in a wide application field.
<b>YBG212</b>	P25 - P35 M25-M40		PVD coated M25-M40/P25-P35 carbide substrate for steel and stainless steel. Especially for inner insert at drilling operation.

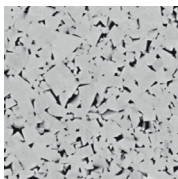
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## Uncoated cemented carbide

Grade	ISO	Micro structure	Grade description
<b>YD201</b>	K10 - K30 N10 - N30		Uncoated N10-N30/K10-K30 carbide substrate for medium application in aluminum and other material.

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Application fields of grades – Indexable drills

	ISO	HC <sup>1</sup> (CVD)	HC <sup>1</sup> (PVD)	HT	HW	PCBN & PCD
<b>P</b>	P01					
	P10					
	P20	YBD252	YBG202			
	P30	YB6338	YBG205			
	P40		YBG212			
<b>M</b>	M01					
	M10		YBG202			
	M20		YBG205			
	M30					
	M40					
<b>K</b>	K01					
	K10	YBD252	YBG202			
	K20	YB6338	YBG205			
	K30					
	K40					
<b>N</b>	N01					
	N10					
	N20				YD201	
	N30					
<b>S</b>	S01					
	S10		YBG202			
	S20		YBG205			
	S30					
<b>H</b>	H01					
	H10					
	H20					
	H30					

<b>P</b>	Steel
<b>M</b>	Stainless steel
<b>K</b>	Cast iron

<b>N</b>	Non-ferrous alloys
<b>S</b>	Heat-resistant alloys
<b>H</b>	Hardened materials

HC<sup>1</sup> Coated cemented carbide  
 HT Uncoated cermet  
 HW Uncoated cemented carbide

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