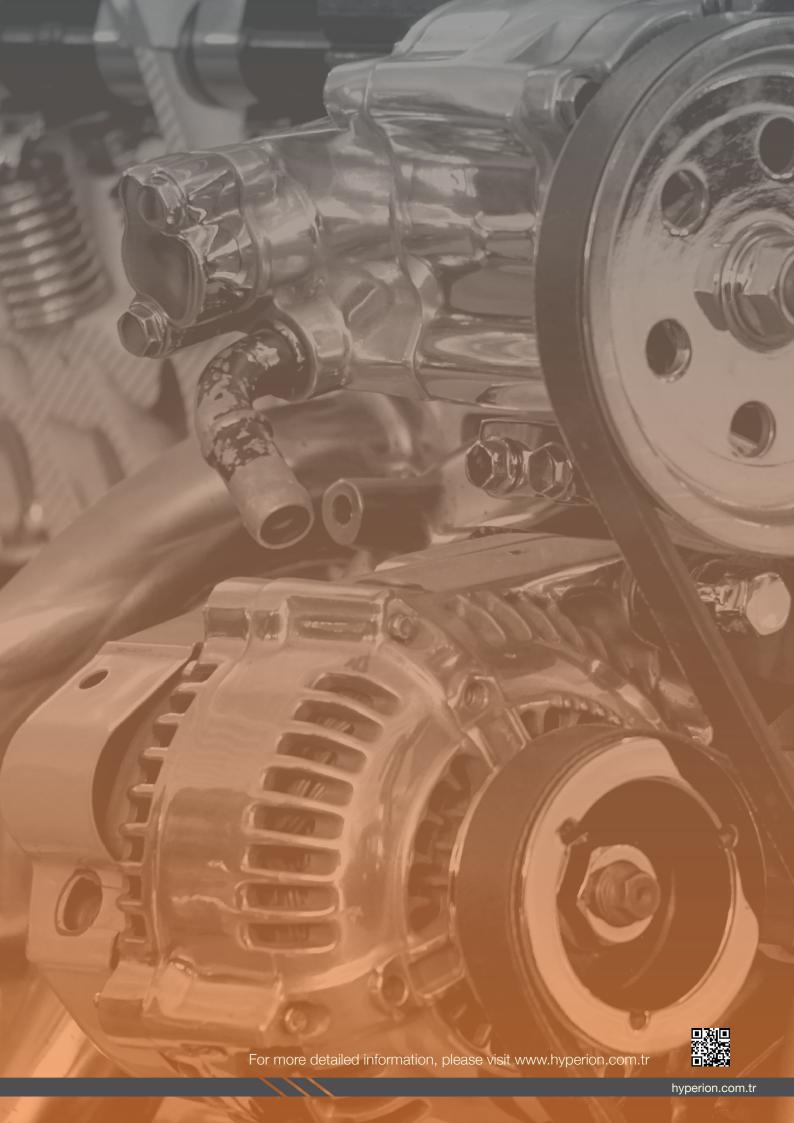
HIGH PERFORMANCE PRECISION TOOLS



GENERALCATALOGUE





From the dream to the truth...

The way you wish, the time you wish.



HIGH PERFORMANCE PRECISION TOOLS WITH INNOVATIVE IDEAS AND DESIGN



HYPERION HIGH PERFORMANCE PRECISION TOOLS

Hyperion brand products and services have defined excellence in innovation, technology and customer service.

As we Hyperion; from turning to milling, solid end milling, holemaking, tapping and tooling systems; offering a wide range of PCD tool solutions. At Hyperion, our customers' desires are always important to us. please do not hesitate to contact us for products with different and special measures not in this catalog.

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Hyperion High Performance Precision Tools

Kosuyolu Mh. Ali Nazima Sk. No:26 34718 Kadikoy / Istanbul

Tel: +90.216.909.72.64

+90.535.216.99.57

+90.535.622.09.69

Internet: www.hyperion.com.tr E-mail: sales@hyperion.com.tr



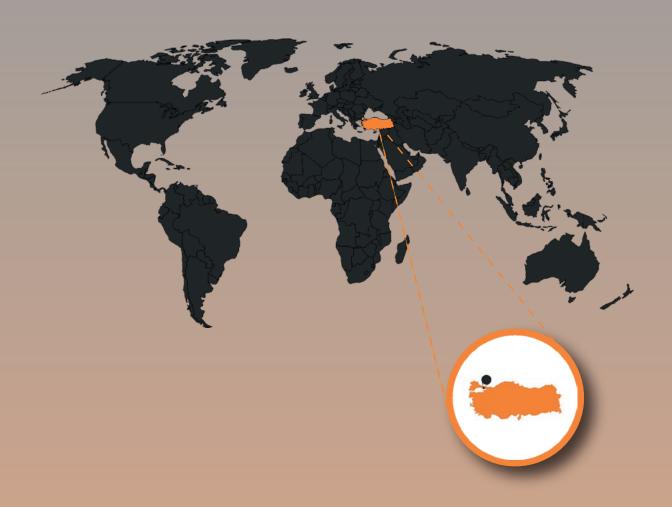
Our team consist of passionate and experienced people who love what they do and are always one step ahead.



TOUGH CHALLENGES FLAWLESS RESULTS

Hyperion cutting tools can offer the most efficient solutions on PCD tools, thanks to its years of experience and valuable customers. Especially, our company which stands out with its solutions in automotive, defense and kitchenware industries, can be a partner of all companies using PCD special tools in general. Our support services are available when you need them to provide the Hyperion product support and information that you need to keep your business moving forward.





Hyperion Cutting Tool Company is a leader in the design of special indexable cutting tools for a complete range of metal removal applications. The development and production of special purpose tooling according to customer specific requirements is Hyperion Cutting Tools' primary skill. Increase productivity and reduce tooling costs in today's most challenging applications with machining solutions from Hyperion High Performance Precision Tooling systems.

We, as Hyperion employees, are responsible for achieving customer satisfaction by continually improving processes, products, deliveries and services to ensure they meet or exceed customer requirements. We strive for zero defects in everything we do while promoting a safe work environment for all employees at work and at home.

Hyperion products are supported by a confident and technical sales team backed by an extensive customer care policy.



INDEXABLE TOOLS

• TURNING TOOLS01
• PCD TURNING TOOLS
• CBN TURNING TOOLS
• PCD BITES
• CBN BITES
• PCD&CBN GROOVING TOOLS
• PCD&CBN PISTON GROOVING TOOLS
• ENGINE BEARING TOOLS
• MILLING TOOLS
• PCD&CBN MILLING TOOLS
PCD ENDMILLS
• PCD ENDMILLS
TOD LINDIVILLO
DODO ODNI ODEOLAL TOOLO
PCD&CBN SPECIAL TOOLS
• SPECIAL TOOLS
• PCD&CBN SPECIAL TOOLS FOR AUTOMOTIVE
PCD&CBN SPECIAL TOOLS FOR COOKWARE87

In order to provide price / performance balance, which is the primary priority of today's applications, as Hyperion, we are here to meet your needs in a wide range of turning operations with PCD and CBN inserts.

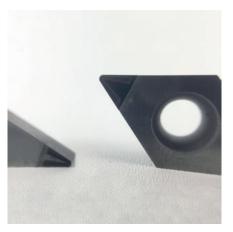
Apart from our standard inserts you can find in this catalog, we can produce inserts of different sizes for your operations at any time.



PCD TURNING TOOLS







As Hyperion, we are able to provide you with the most suitable inserts for your operations by using our extensive experience in PCD and CBN special tools, enabling you to complete your machining operations in the most efficient way.

You can perform your operations with Hyperion's full-edge PCD / CBN and full-surface PCD / CBN inserts as well as standard inserts for efficiency and low expense.

If you need different cutting angles, special corner radiuses / chamfers on the standard PCD / CBN inserts, or anything else, please do not hesitate to contact us.

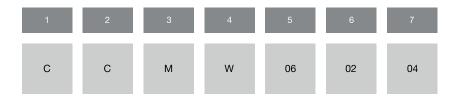
Even if you need low quantities, we are there to meet the needs of our valued customers.

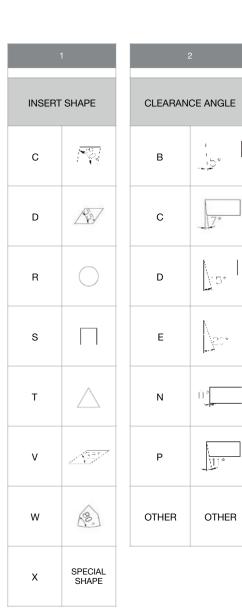
PCD is highly efficient in the processing of nonferrous metals, especially aluminum, and fiberreinforced composites. In materials such as aluminum, which produce long chips, chip breaker forms can break chips and produce short chips.

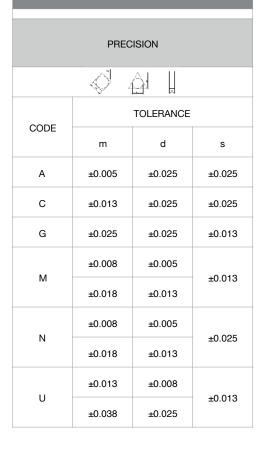
Chip breaker inserts are available in all products, if possible.

Number	Code	Grain Size	Detail
1	HPCD 308	10	Material of General Purpose
2	HPCD 311	10	For Light, Middle Shock Resistance & Wear Resistance. Middle Silicon Content
3	HPCD 314	<1	Good Toughness and Wear Resistance
4	HPCD 352	3	For Super Finish Interrupted Machining
5	HPCD 360	30&2 Mixed	For Medium-Hard or Super-Hard Material Interrupted Machining

Work Material	Process	Cutting Speed (m/min)	First Choice	
AlSi > %12 Si MMC	Turning/Boring	500	HPCD 360	
MMC	Milling	500-1000 500-1000 1500 20-50 100-200 200 300 200-500	HPCD 308	
NO: 0/40 O	Turning / Boring	500-1000	HPCD 308	
Si < %12 Si Milling		1500	HPCD 308	
	Sintered	20-50	HPCD 360	
Carbides & Ceramics	Green	100-200	HPCD 360	
0014 001	Turning / Boring	200	HPCD 360	
CGI & SGI	Milling	500-1000 500-1000 1500 20-50 100-200 200 300	HPCD 360	
Fibers & Composites	Turning / Boring	200-500	HPCD 360	
Fibers & Composites	Milling / Routing	200-1000	HPCD 308	
Titanium	Turning / Boring	100-200	HPCD 308	
Hallulli	Milling	200-400	HPCD 308	
Bi-Metals	Milling	200-400	HPCD 360	
Grey Iron	Turning / Boring / Reaming	300	HPCD 360	







4						
CHIP BREAKER AND FIXING TYPE						
А						
G	H					
М						
N						
R						
Т						
W						
X	SPECIAL					

8	8	9	9	10	11
D	С	G	L	2	HPCD

5		6		7	8				9		
CUTTING EDGE LENGTH	THICH	KNESS	CORNER	R RADIUS		CUTTING EDGE			RAKE ANGLE		C
	1	1.59	00	0		DC	CORNER		GL	0°	
\Box	2	2.38	02	0.2		HE	HALF EDGE		GA	3°	
	3	3.18	04	0.4		FE	FULL EDGE		GB	5°	
	Т3	3.97	06	0.6		FE-R	FULL EDGE RIGHT		GC	10°	
	4	4.76	08	0.8		FE-L	FULL EDGE LEFT		GD	15°	
	5	5.56	12	12		FF	FULL FACE		GX	OTHER	
	6	6.35	15	15		S	SOLID				
	7	7.95	20	20		11		9			
	9	9.52	30	30		MATERIAL				CHIP BREA	
						HPCBN	CBN			СВ	
			MO	ROUND INSERT		HPCD	PCD				

CUTTING EDGE NUMBER

1

2

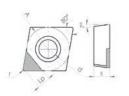
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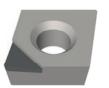
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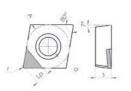


Code	Dimensions					
	ØA	s	r	a	Lp	
CCMW 060204 DC-GL HPCD	6,35	2,38	0,4	2,8	2,5-3,5	
CCMW 060208 DC-GL HPCD	6,35	2,38	0,8	2,8	2,5-3,5	
CCMW 09T304 DC-GL HPCD	9,525	3,97	0,4	4,4	2,5-3,5	
CCMW 09T308 DC-GL HPCD	9,525	3,97	0,8	4,4	2,5-3,5	
CCMW 120404 DC-GL HPCD	12,7	4,76	0,4	5,5	2,5-3,5	
CCMW 120408 DC-GL HPCD	12,7	4,76	0,8	5,5	2,5-3,5	
CCMW 120412 DC-GL HPCD	12,7	4,76	1,2	5,5	2,5-3,5	

3D Picture

Technical Drawing

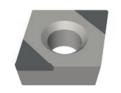


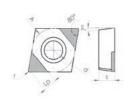


Code	Dimensions						
	ØA	s	r	а	Lp		
CCMW 060204 DC-GD HPCD	6,35	2,38	0,4	2,8	2,5-3,5		
CCMW 060208 DC-GD HPCD	6,35	2,38	0,8	2,8	2,5-3,5		
CCMW 09T304 DC-GD HPCD	9,525	3,97	0,4	4,4	2,5-3,5		
CCMW 09T308 DC-GD HPCD	9,525	3,97	0,8	4,4	2,5-3,5		
CCMW 120404 DC-GD HPCD	12,7	4,76	0,4	5,5	2,5-3,5		
CCMW 120408 DC-GD HPCD	12,7	4,76	0,8	5,5	2,5-3,5		
CCMW 120412 DC-GD HPCD	12,7	4,76	1,2	5,5	2,5-3,5		

3D Picture

Technical Drawing

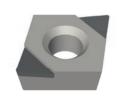


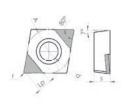


Code	Dimensions						
	ØA	S	r	а	Lp		
CCMW 060204 DC-GL-2 HPCD	6,35	2,38	0,4	2,8	2,5-3,5		
CCMW 060208 DC-GL-2 HPCD	6,35	2,38	0,8	2,8	2,5-3,5		
CCMW 09T304 DC-GL-2 HPCD	9,525	3,97	0,4	4,4	2,5-3,5		
CCMW 09T308 DC-GL-2 HPCD	9,525	3,97	0,8	4,4	2,5-3,5		
CCMW 120404 DC-GL-2 HPCD	12,7	4,76	0,4	5,5	2,5-3,5		
CCMW 120408 DC-GL-2 HPCD	12,7	4,76	0,8	5,5	2,5-3,5		
CCMW 120412 DC-GL-2 HPCD	12,7	4,76	1,2	5,5	2,5-3,5		

3D Picture

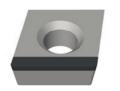
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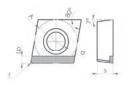




Code	Dimensions						
	ØA	s	r	а	Lp		
CCMW 060204 DC-GD-2 HPCD	6,35	2,38	0,4	2,8	2,5-3,5		
CCMW 060208 DC-GD-2 HPCD	6,35	2,38	0,8	2,8	2,5-3,5		
CCMW 09T304 DC-GD-2 HPCD	9,525	3,97	0,4	4,4	2,5-3,5		
CCMW 09T308 DC-GD-2 HPCD	9,525	3,97	0,8	4,4	2,5-3,5		
CCMW 120404 DC-GD-2 HPCD	12,7	4,76	0,4	5,5	2,5-3,5		
CCMW 120408 DC-GD-2 HPCD	12,7	4,76	0,8	5,5	2,5-3,5		
CCMW 120412 DC-GD-2 HPCD	12,7	4,76	1,2	5,5	2,5-3,5		

Technical Drawing

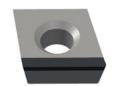


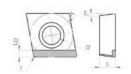


Code	Dimensions						
	ØA	s	r	а	Lp		
CCMW 060204 DC-FE-R HPCD	6,35	2,38	0,4	2,8	2,5-3,5		
CCMW 060208 DC-FE-R HPCD	6,35	2,38	0,8	2,8	2,5-3,5		
CCMW 09T304 DC-FE-R HPCD	9,525	3,97	0,4	4,4	2,5-3,5		
CCMW 09T308 DC-FE-R HPCD	9,525	3,97	0,8	4,4	2,5-3,5		
CCMW 120404 DC-FE-R HPCD	12,7	4,76	0,4	5,5	2,5-3,5		
CCMW 120408 DC-FE-R HPCD	12,7	4,76	0,8	5,5	2,5-3,5		
CCMW 120412 DC-FE-R HPCD	12,7	4,76	1,2	5,5	2,5-3,5		

3D Picture

Technical Drawing

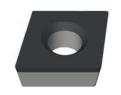


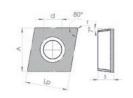


Code	Dimensions					
	ØA	s	r	a	Lp	
CCMW 060204 DC-FE-L HPCD	6,35	2,38	0,4	2,8	2,5-3,5	
CCMW 060208 DC-FE-L HPCD	6,35	2,38	0,8	2,8	2,5-3,5	
CCMW 09T304 DC-FE-L HPCD	9,525	3,97	0,4	4,4	2,5-3,5	
CCMW 09T308 DC-FE-L HPCD	9,525	3,97	0,8	4,4	2,5-3,5	
CCMW 120404 DC-FE-L HPCD	12,7	4,76	0,4	5,5	2,5-3,5	
CCMW 120408 DC-FE-L HPCD	12,7	4,76	0,8	5,5	2,5-3,5	
CCMW 120412 DC-FE-L HPCD	12,7	4,76	1,2	5,5	2,5-3,5	

3D Picture

Technical Drawing

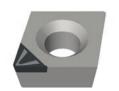


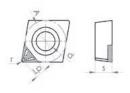


Code			Dimensions		
	ØA	s	r	а	Lp
CCMW 060204 DC-FF HPCD	6,35	2,38	0,4	2,8	2,5-3,5
CCMW 060208 DC-FF HPCD	6,35	2,38	0,8	2,8	2,5-3,5
CCMW 09T304 DC-FF HPCD	9,525	3,97	0,4	4,4	2,5-3,5
CCMW 09T308 DC-FF HPCD	9,525	3,97	0,8	4,4	2,5-3,5
CCMW 120404 DC-FF HPCD	12,7	4,76	0,4	5,5	2,5-3,5
CCMW 120408 DC-FF HPCD	12,7	4,76	0,8	5,5	2,5-3,5
CCMW 120412 DC-FF HPCD	12,7	4,76	1,2	5,5	2,5-3,5

3D Picture

Technical Drawing





Code			Dimensions		
	ØA	s	r	а	Lp
CCMW 060204 DC-CB HPCD	6,35	2,38	0,4	2,8	2,5-3,5
CCMW 060208 DC-CB HPCD	6,35	2,38	0,8	2,8	2,5-3,5
CCMW 09T304 DC-CB HPCD	9,525	3,97	0,4	4,4	2,5-3,5
CCMW 09T308 DC-CB HPCD	9,525	3,97	0,8	4,4	2,5-3,5
CCMW 120404 DC-CB HPCD	12,7	4,76	0,4	5,5	2,5-3,5
CCMW 120408 DC-CB HPCD	12,7	4,76	0,8	5,5	2,5-3,5
CCMW 120412 DC-CB HPCD	12,7	4,76	1,2	5,5	2,5-3,5

	3D Picture
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	3D Picture
4	0

3D Picture	Technical Drawing
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3D Picture	Technical Drawing
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Code	Dimensions				
	ØA	s	r	a	Lp
DCMW 070202 DC-GL HPCD	6,35	2,38	0,2	2,8	2,5-3,5
DCMW 070204 DC-GL HPCD	6,35	2,38	0,4	2,8	2,5-3,5
DCMW 070208 DC-GL HPCD	6,35	2,38	0,8	2,8	2,5-3,5
DCMW 11T302 DC-GL HPCD	9,525	3,97	0,2	4,4	2,5-3,5
DCMW 11T304 DC-GL HPCD	9,525	3,97	0,4	4,4	2,5-3,5
DCMW 11T308 DC-GL HPCD	9,525	3,97	0,8	4,4	2,5-3,5

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LD S	DCMW 070202 DC-GD HPCD
	DCMW 070204 DC-GD HPCD
	DCMW 070208 DC-GD HPCD
	DCMW 11T302 DC-GD HPCD
	DCMW 11T304 DC-GD HPCD
	DCMW 11T308 DC-GD HPCD

		Dimensions		
ØA	s	r	a	Lp
6,35	2,38	0,2	2,8	2,5-3,5
6,35	2,38	0,4	2,8	2,5-3,5
6,35	2,38	0,8	2,8	2,5-3,5
9,525	3,97	0,2	4,4	2,5-3,5
9,525	3,97	0,4	4,4	2,5-3,5
9,525	3,97	0,8	4,4	2,5-3,5

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Code			Dimensions		
	ØA	s	r	а	Lp
DCMW 070202 DC-GL-2 HPCD	6,35	2,38	0,2	2,8	2,5-3,5
DCMW 070204 DC-GL-2 HPCD	6,35	2,38	0,4	2,8	2,5-3,5
DCMW 070208 DC-GL-2 HPCD	6,35	2,38	0,8	2,8	2,5-3,5
DCMW 11T302 DC-GL-2 HPCD	9,525	3,97	0,2	4,4	2,5-3,5
DCMW 11T304 DC-GL-2 HPCD	9,525	3,97	0,4	4,4	2,5-3,5
DCMW 11T308 DC-GL-2 HPCD	9,525	3,97	0,8	4,4	2,5-3,5

6	55 R

Code			Dimensions		
	ØA	s	r	а	Lp
DCMW 070202 DC-GD-2 HPCD	6,35	2,38	0,2	2,8	2,5-3,5
DCMW 070204 DC-GD-2 HPCD	6,35	2,38	0,4	2,8	2,5-3,5
DCMW 070208 DC-GD-2 HPCD	6,35	2,38	0,8	2,8	2,5-3,5
DCMW 11T302 DC-GD-2 HPCD	9,525	3,97	0,2	4,4	2,5-3,5
DCMW 11T304 DC-GD-2 HPCD	9,525	3,97	0,4	4,4	2,5-3,5
DCMW 11T308 DC-GD-2 HPCD	9,525	3,97	0,8	4,4	2,5-3,5

3D Picture	Technical Drawing
	7 6 P

Code	Dimensions				
	ØA	s	r	а	Lp
DCMW 070202 DC-CB HPCD	6,35	2,38	0,2	2,8	2,5-3,5
DCMW 070204 DC-CB HPCD	6,35	2,38	0,4	2,8	2,5-3,5
DCMW 070208 DC-CB HPCD	6,35	2,38	0,8	2,8	2,5-3,5
DCMW 11T302 DC-CB HPCD	9,525	3,97	0,2	4,4	2,5-3,5
DCMW 11T304 DC-CB HPCD	9,525	3,97	0,4	4,4	2,5-3,5
DCMW 11T308 DC-CB HPCD	9,525	3,97	0,8	4,4	2,5-3,5

Technical Drawing

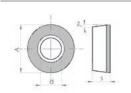


Code		Dimensions				
	ØA	s	r	а	Lp	
RCGX 0603 M0 DC-FF HPCD	6,35	3,18	-	-	-	
RCGX 0903 M0 DC-FF HPCD	9,525	3,18	-	-	-	
RCGX 1204 M0 DC-FF HPCD	12,7	4,76	-	-	-	
RCGX 0607 M0 DC-FF HPCD	6,35	4,76	-	-	-	
RCGX 0907 M0 DC-FF HPCD	9,525	4,76	-	-	-	
RCGX 1207 M0 DC-FF HPCD	12,7	4,76	-	-	-	

3D Picture

Technical Drawing



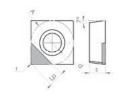


Code	Dimensions					
	ØA	s	r	а	Lp	
RCMW 0602 M0 DC-FF HPCD	6,4	2,4	-	2,8	-	
RCMW 0802 M0 DC-FF HPCD	8,0	2,4	-	3,3	-	
RCMW 0803 M0 DC-FF HPCD	8,0	3,2	=	3,3	=	
RCMW 1003 M0 DC-FF HPCD	10,0	3,2	-	4,4	-	
RCMW 1204 M0 DC-FF HPCD	12,7	4,8	-	5,5	-	

3D Picture

Technical Drawing

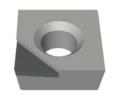


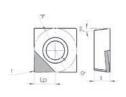


Code			Dimensions		
	ØA	s	r	a	Lp
SCMW 060204 DC-GL HPCD	7,94	2,38	0,4	3,4	2,5-3,5
SCMW 060208 DC-GL HPCD	7,94	2,38	0,8	3,4	2,5-3,5
SCMW 09T304 DC-GL HPCD	9,525	3,97	0,4	4,4	2,5-3,5
SCMW 09T308 DC-GL HPCD	9,525	3,97	0,8	4,4	2,5-3,5
SCMW 120404 DC-GL HPCD	12,7	4,76	0,4	5,5	2,5-3,5
SCMW 120408 DC-GL HPCD	12,7	4,76	0,8	5,5	2,5-3,5
SCMW 120412 DC-GL HPCD	12,7	4,76	1,2	5,5	2,5-3,5

3D Picture

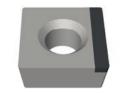
Technical Drawing

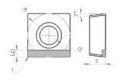




Code	Dimensions				
	ØA	s	r	а	Lp
SCMW 060204 DC-GD HPCD	7,94	2,38	0,4	3,4	2,5-3,5
SCMW 060208 DC-GD HPCD	7,94	2,38	0,8	3,4	2,5-3,5
SCMW 09T304 DC-GD HPCD	9,525	3,97	0,4	4,4	2,5-3,5
SCMW 09T308 DC-GD HPCD	9,525	3,97	0,8	4,4	2,5-3,5
SCMW 120404 DC-GD HPCD	12,7	4,76	0,4	5,5	2,5-3,5
SCMW 120408 DC-GD HPCD	12,7	4,76	0,8	5,5	2,5-3,5
SCMW 120412 DC-GD HPCD	12,7	4,76	1,2	5,5	2,5-3,5

Technical Drawing



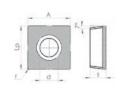


Code	Dimensions				
	ØA	s	r	a	Lp
SCMW 060204 DC-FE HPCD	7,94	2,38	0,4	3,4	7,94
SCMW 060208 DC-FE HPCD	7,94	2,38	0,8	3,4	2,5-3,5
SCMW 09T304 DC-FE HPCD	9,525	3,97	0,4	4,4	2,5-3,5
SCMW 09T308 DC-FE HPCD	9,525	3,97	0,8	4,4	2,5-3,5
SCMW 120404 DC-FE HPCD	12,7	4,76	0,4	5,5	2,5-3,5
SCMW 120408 DC-FE HPCD	12,7	4,76	0,8	5,5	2,5-3,5
SCMW 120412 DC-FE HPCD	12,7	4,76	1,2	5,5	2,5-3,5

3D Picture

Technical Drawing

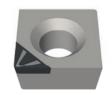


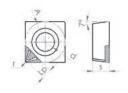


Code		Dimensions				
	ØA	s	r	а	Lp	
SCMW 060204 DC-FF HPCD	7,94	2,38	0,4	3,4	7,94	
SCMW 060208 DC-FF HPCD	7,94	2,38	0,8	3,4	7,94	
SCMW 09T304 DC-FF HPCD	9,525	3,97	0,4	4,4	9,525	
SCMW 09T308 DC-FF HPCD	9,525	3,97	0,8	4,4	9,525	
SCMW 120404 DC-FF HPCD	12,7	4,76	0,4	5,5	12,7	
SCMW 120408 DC-FF HPCD	12,7	4,76	0,8	5,5	12,7	
SCMW 120412 DC-FF HPCD	12,7	4,76	1,2	5,5	12,7	

3D Picture

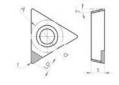
Technical Drawing





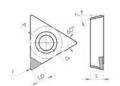
Code		Dimensions					
	ØA	s	r	а	Lp		
SCMW 060204 DC-CB HPCD	7,94	2,38	0,4	3,4	2,5-3,5		
SCMW 060208 DC-CB HPCD	7,94	2,38	0,8	3,4	2,5-3,5		
SCMW 09T304 DC-CB HPCD	9,525	3,97	0,4	4,4	2,5-3,5		
SCMW 09T308 DC-CB HPCD	9,525	3,97	0,8	4,4	2,5-3,5		
SCMW 120404 DC-CB HPCD	12,7	4,76	0,4	5,5	2,5-3,5		
SCMW 120408 DC-CB HPCD	12,7	4,76	0,8	5,5	2,5-3,5		
SCMW 120412 DC-CB HPCD	12,7	4,76	1,2	5,5	2,5-3,5		





Code		Dimensions					
	ØA	s	r	a	Lp		
TCMW 06T102 DC-GL HPCD	3,97	1,98	0,2	2.2	2,5-3,5		
TCMW 06T104 DC-GL HPCD	3,97	1,98	0,4	2.2	2,5-3,5		
TCMW 06T108 DC-GL HPCD	3,97	1,98	0,8	2.2	2,5-3,5		
TCMW 090202 DC-GL HPCD	5,56	2,38	0,2	2,5	2,5-3,5		
TCMW 090204 DC-GL HPCD	5,56	2,38	0,4	2,5	2,5-3,5		
TCMW 090208 DC-GL HPCD	5,56	2,38	0,8	2,5	2,5-3,5		
TCMW 110202 DC-GL HPCD	6,35	2,38	0,2	2,8	2,5-3,5		
TCMW 110204 DC-GL HPCD	6,35	2,38	0,4	2,8	2,5-3,5		
TCMW 110208 DC-GL HPCD	6,35	2,38	0,8	2,8	2,5-3,5		
TCMW 16T304 DC-GL HPCD	9,525	3,97	0,4	4,4	2,5-3,5		
TCMW 16T308 DC-GL HPCD	9,525	3,97	0,8	4,4	2,5-3,5		

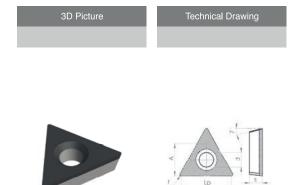




Code			Dimensions		
	ØA	s	r	a	Lp
TCMW 06T102 DC-GD HPCD	3,97	1,98	0,2	2.2	2,5-3,5
TCMW 06T104 DC-GD HPCD	3,97	1,98	0,4	2.2	2,5-3,5
TCMW 06T108 DC-GD HPCD	3,97	1,98	0,8	2.2	2,5-3,5
TCMW 090202 DC-GD HPCD	5,56	2,38	0,2	2,5	2,5-3,5
TCMW 090204 DC-GD HPCD	5,56	2,38	0,4	2,5	2,5-3,5
TCMW 090208 DC-GD HPCD	5,56	2,38	0,8	2,5	2,5-3,5
TCMW 110202 DC-GD HPCD	6,35	2,38	0,2	2,8	2,5-3,5
TCMW 110204 DC-GD HPCD	6,35	2,38	0,4	2,8	2,5-3,5
TCMW 110208 DC-GD HPCD	6,35	2,38	0,8	2,8	2,5-3,5
TCMW 16T304 DC-GD HPCD	9,525	3,97	0,4	4,4	2,5-3,5
TCMW 16T308 DC-GD HPCD	9,525	3,97	0,8	4,4	2,5-3,5

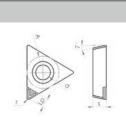
3D Picture Technical Drawing

Code			Dimensions		
	ØA	s	r	а	Lp
TCMW 06T102 DC-FE HPCD	3,97	1,98	0,2	2.2	2,5-3,5
TCMW 06T104 DC-FE HPCD	3,97	1,98	0,4	2.2	2,5-3,5
TCMW 06T108 DC-FE HPCD	3,97	1,98	0,8	2.2	2,5-3,5
TCMW 090202 DC-FE HPCD	5,56	2,38	0,2	2,5	2,5-3,5
TCMW 090204 DC-FE HPCD	5,56	2,38	0,4	2,5	2,5-3,5
TCMW 090208 DC-FE HPCD	5,56	2,38	0,8	2,5	2,5-3,5
TCMW 110202 DC-FE HPCD	6,35	2,38	0,2	2,8	2,5-3,5
TCMW 110204 DC-FE HPCD	6,35	2,38	0,4	2,8	2,5-3,5
TCMW 110208 DC-FE HPCD	6,35	2,38	0,8	2,8	2,5-3,5
TCMW 16T304 DC-FE HPCD	9,525	3,97	0,4	4,4	2,5-3,5
TCMW 16T308 DC-FE HPCD	9,525	3,97	0,8	4,4	2,5-3,5



Code			Dimensions		
	ØA	s	r	а	Lp
TCMW 06T102 DC-FF HPCD	3,97	1,98	0,2	2,5	3,97
TCMW 06T104 DC-FF HPCD	3,97	1,98	0,4	2,5	3,97
TCMW 06T108 DC-FF HPCD	3,97	1,98	0,8	2,5	3,97
TCMW 090202 DC-FF HPCD	5,56	2,38	0,2	2,5	5,56
TCMW 090204 DC-FF HPCD	5,56	2,38	0,4	2,5	5,56
TCMW 090208 DC-FF HPCD	5,56	2,38	0,8	2,5	5,56
TCMW 110202 DC-FF HPCD	6,35	2,38	0,2	2,8	6,35
TCMW 110204 DC-FF HPCD	6,35	2,38	0,4	2,8	6,35
TCMW 110208 DC-FF HPCD	6,35	2,38	0,8	2,8	6,35
TCMW 16T304 DC-FF HPCD	9,525	3,97	0,4	4,4	9,525
TCMW 16T308 DC-FF HPCD	9,525	3,97	0,8	4,4	9,525





Code		Dimensions				
	ØA	s	r	а	Lp	
TCMW 110202 DC-CB HPCD	6,35	2,38	0,2	2,8	2,5-3,5	
TCMW 110204 DC-CB HPCD	6,35	2,38	0,4	2,8	2,5-3,5	
TCMW 110208 DC-CB HPCD	6,35	2,38	0,8	2,8	2,5-3,5	
TCMW 16T304 DC-CB HPCD	9,525	3,97	0,4	4,4	2,5-3,5	
TCMW 16T308 DC-CB HPCD	9,525	3,97	0,8	4,4	2,5-3,5	

Technical Drawing



ØA s а Lp VCMW 110302 DC-GL HPCD 6,35 2,38 0,2 2,8 2,5-3,5 VCMW 110304 DC-GL HPCD 6,35 2,38 0,4 2,8 2,5-3,5 VCMW 110308 DC-GL HPCD 6,35 2,38 0,8 2,8 2,5-3,5 4,4 VCMW 160402 DC-GL HPCD 9,525 4,76 0,2 2,5-3,5





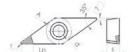
VCMW 160404 DC-GL HPCD	9,525	4,76	0,4	4,4	2,5-3,5
VCMW 160408 DC-GL HPCD	9,525	4,76	0,8	4,4	2,5-3,5
VCMW 160412 DC-GL HPCD	9,525	4,76	1,2	4,4	2,5-3,5
VCMW 160416 DC-GL HPCD	9,525	4,76	1,6	4,4	2,5-3,5
VCMW 160418 DC-GL HPCD	9,525	4,76	1,8	4,4	2,5-3,5
VCMW 160420 DC-GL HPCD	9,525	4,76	2,0	4,4	2,5-3,5

3D Picture

Technical Drawing







Code	Dimensions					
	ØA	s	r	a	Lp	
VCMW 110202 DC-GD HPCD	6,35	2,38	0,2	2,8	2,5-3,5	
VCMW 110204 DC-GD HPCD	6,35	2,38	0,4	2,8	2,5-3,5	
VCMW 110208 DC-GD HPCD	6,35	2,38	0,8	2,8	2,5-3,5	
VCMW 160402 DC-GD HPCD	9,525	4,76	0,2	4,4	2,5-3,5	
VCMW 160404 DC-GD HPCD	9,525	4,76	0,4	4,4	2,5-3,5	
VCMW 160408 DC-GD HPCD	9,525	4,76	0,8	4,4	2,5-3,5	
VCMW 160412 DC-GD HPCD	9,525	4,76	1,2	4,4	2,5-3,5	
VCMW 160416 DC-GD HPCD	9,525	4,76	1,6	4,4	2,5-3,5	
VCMW 160418 DC-GD HPCD	9,525	4,76	1,8	4,4	2,5-3,5	
VCMW 160420 DC-GD HPCD	9,525	4,76	2,0	4,4	2,5-3,5	

3D Picture	Technical Drawi





3D Picture	Technical Drawing
0	

Code	Dimensions				
	ØA	s	r	а	Lp
VCMW 110202 DC-GD-2 HPCD	6,35	2,38	0,2	2,8	2,5-3,5
VCMW 110204 DC-GD-2 HPCD	6,35	2,38	0,4	2,8	2,5-3,5
VCMW 110208 DC-GD-2 HPCD	6,35	2,38	0,8	2,8	2,5-3,5
VCMW 160402 DC-GD-2 HPCD	9,525	4,76	0,2	4,4	2,5-3,5
VCMW 160404 DC-GD-2 HPCD	9,525	4,76	0,4	4,4	2,5-3,5
VCMW 160408 DC-GD-2 HPCD	9,525	4,76	0,8	4,4	2,5-3,5
VCMW 160412 DC-GD-2 HPCD	9,525	4,76	1,2	4,4	2,5-3,5
VCMW 160416 DC-GD-2 HPCD	9,525	4,76	1,6	4,4	2,5-3,5
VCMW 160418 DC-GD-2 HPCD	9,525	4,76	1,8	4,4	2,5-3,5
VCMW 160420 DC-GD-2 HPCD	9,525	4,76	2,0	4,4	2,5-3,5

Technical Drawing



4,76

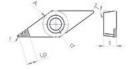
1,2

4,4

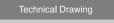
2,5-3,5

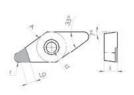
9,525





3D Picture	





Code		Dimensions					
	ØA	s	r	a	Lp		
VCMW 220510 DC-GL HPCD	12,7	5,56	1	7,5	4-5		
VCMW 220515 DC-GL HPCD	12,7	5,56	1,5	7,5	4-5		
VCMW 220520 DC-GL HPCD	12,7	5,56	2	7,5	4-5		
VCMW 220525 DC-GL HPCD	12,7	5,56	2,5	7,5	4-5		
VCMW 220530 DC-GL HPCD	12,7	5,56	3	7,5	4-5		

hyperion.com.tr 16

VCMW 160412 DC-CB HPCD



CBN TURNING TOOLS







CBN or Solid-CBN inserts are mostly suitable for cast iron and sintered iron materials and due to the nature of the CBN material, they can operate at a much higher speeds even with a longer tool life than carbide inserts.

You can save machining time with a much precise surface values in your machining operations with different sizes of CBN with a wide range of material qualities in many different geometries.

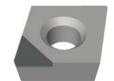
With Full-Face or Half-Face CBN (optionally PCD) bits, you can perform ribbing operations on your steels more efficiently than carbide inserts.

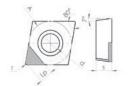
Hyperion can to produce bites in all the forms and sizes you want.

In CBN inserts, CBN geometry is as important as CBN quality. At this point, as Hyperion, we can make inserts with different geometries that work more efficiently, especially by adjusting the chamfer dimensions as desired. Thus, your machining tools will have a longer life.

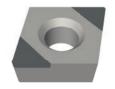
CBN GRADES&MATERIAL SELECTION

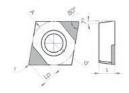
Number	Code	Grain Size	Detail
1	HPCBN 121	3	Hardened Steel. High speed,Continue
2	HPCBN 125	1	Hardened Steel. Continue,Middle Interrupt Cutting
3	HPCBN 130	0,5	Hardend Steel. Interrupt Cutting
4	HPCBN 145	3	Hardened Steel More than HRC65 Precision Interrupt
5	HPCBN 170	3	Cast Iron &Powder Metallurgy
6	HPCBN 180	2	Material of General purpose
7	HPCBN 3500	1	Continuous, Hard Materials





Code		Dimensions				
	ØA	s	r	а	Lp	
CCMW 050202 DC-GL HPCBN	5,56	2,38	0,2	2,8	2,5-3,5	
CCMW 050204 DC-GL HPCBN	5,56	2,38	0,4	2,8	2,5-3,5	
CCMW 050208 DC-GL HPCBN	5,56	2,38	0,8	2,8	2,5-3,5	
CCMW 060202 DC-GL HPCBN	6,35	2,38	0,2	2,8	2,5-3,5	
CCMW 060204 DC-GL HPCBN	6,35	2,38	0,4	2,8	2,5-3,5	
CCMW 060208 DC-GL HPCBN	6,35	2,38	0,8	2,8	2,5-3,5	
CCMW 09T302 DC-GL HPCBN	9,525	3,97	0,2	4,4	2,5-3,5	
CCMW 09T304 DC-GL HPCBN	9,525	3,97	0,4	4,4	2,5-3,5	
CCMW 09T308 DC-GL HPCBN	9,525	3,97	0,8	4,4	2,5-3,5	
CCMW 120402 DC-GL HPCBN	12,7	4,76	0,2	5,16	2,5-3,5	
CCMW 120404 DC-GL HPCBN	12,7	4,76	0,4	5,16	2,5-3,5	
CCMW 120408 DC-GL HPCBN	12,7	4,76	0,8	5,16	2,5-3,5	

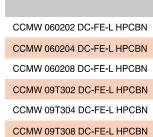




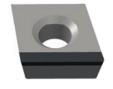
Code		Dimensions				
	ØA	s	r	а	Lp	
CCMW 050202 DC-GL-2 HPCBN	5,56	2,38	0,2	2,8	2,5-3,5	
CCMW 050204 DC-GL-2 HPCBN	5,56	2,38	0,4	2,8	2,5-3,5	
CCMW 050208 DC-GL-2 HPCBN	5,56	2,38	0,8	2,8	2,5-3,5	
CCMW 060202 DC-GL-2 HPCBN	6,35	2,38	0,2	2,8	2,5-3,5	
CCMW 060204 DC-GL-2 HPCBN	6,35	2,38	0,4	2,8	2,5-3,5	
CCMW 060208 DC-GL-2 HPCBN	6,35	2,38	0,8	2,8	2,5-3,5	
CCMW 09T302 DC-GL-2 HPCBN	9,525	3,97	0,2	4,4	2,5-3,5	
CCMW 09T304 DC-GL-2 HPCBN	9,525	3,97	0,4	4,4	2,5-3,5	
CCMW 09T308 DC-GL-2 HPCBN	9,525	3,97	0,8	4,4	2,5-3,5	
CCMW 120402 DC-GL-2 HPCBN	12,7	4,76	0,2	5,16	2,5-3,5	
CCMW 120404 DC-GL-2 HPCBN	12,7	4,76	0,4	5,16	2,5-3,5	
CCMW 120408 DC-GL-2 HPCBN	12,7	4,76	0,8	5,16	2,5-3,5	

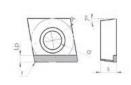
Technical Drawing



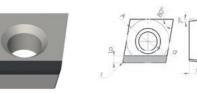








Technical Drawing



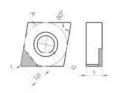
0-4-	
Code	
CCMW 060202 DC-FE-R HPCBN	
CCMW 060204 DC-FE-R HPCBN	
CCMW 060208 DC-FE-R HPCBN	
CCMW 09T302 DC-FE-R HPCBN	
CCMW 09T304 DC-FE-R HPCBN	
CCMW 09T308 DC-FE-R HPCBN	

Dimensions								
ØA	s	r	а	Lp				
6,35	2,38	0,2	2,8	2,5-3,5				
6,35	2,38	0,4	2,8	2,5-3,5				
6,35	2,38	0,8	2,8	2,5-3,5				
9,525	3,97	0,2	4,4	2,5-3,5				
9,525	3,97	0,4	4,4	2,5-3,5				
9,525	3,97	0,8	4,4	2,5-3,5				

3D Picture

Technical Drawing



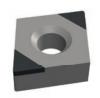


Code
CNGA 09T304 DC-GL HPCBN
CNGA 09T308 DC-GL HPCBN
CNGA 09T312 DC-GL HPCBN
CNGA 120404 DC-GL HPCBN
CNGA 120408 DC-GL HPCBN
CNGA 120412 DC-GL HPCBN

Dimensions								
ØA	s	r	a	Lp				
9,525	3,97	0,4	3,81	2,5-3,5				
9,525	3,97	0,8	3,81	2,5-3,5				
9,525	3,97	1,2	3,81	2,5-3,5				
12,7	4,76	0,4	5,16	2,5-3,5				
12,7	4,76	0,8	5,16	2,5-3,5				
12,7	4,76	1,2	5,16	2,5-3,5				

3D Picture

Technical Drawing





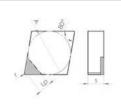
Code
CNGA 09T304 DC-GL-2 HPCBN
CNGA 09T308 DC-GL-2 HPCBN
CNGA 09T312 DC-GL-2 HPCBN
CNGA 120404 DC-GL-2 HPCBN
CNGA 120408 DC-GL-2 HPCBN
CNGA 120412 DC-GL-2 HPCBN

Dimensions								
ØA	s	r	a	Lp				
9,525	3,97	0,4	3,81	2,5-3,5				
9,525	3,97	0,8	3,81	2,5-3,5				
9,525	3,97	1,2	3,81	2,5-3,5				
12,7	4,76	0,4	5,16	2,5-3,5				
12,7	4,76	0,8	5,16	2,5-3,5				
12,7	4,76	1,2	5,16	2,5-3,5				

3D Picture

Technical Drawing





Code	Dimensions					
	ØA	s	r	a	Lp	
CNGN 09T304 DC-GL HPCBN	9,525	3,97	0,4	-	2,5-3,5	
CNGN 09T308 DC-GL HPCBN	9,525	3,97	0,8	-	2,5-3,5	
CNGN 09T312 DC-GL HPCBN	9,525	3,97	1,2	-	2,5-3,5	
CNGN 120404 DC-GL HPCBN	12,7	4,76	0,4	-	2,5-3,5	
CNGN 120408 DC-GL HPCBN	12,7	4,76	0,8	-	2,5-3,5	
CNGN 120412 DC-GL HPCBN	12,7	4,76	1,2	-	2,5-3,5	

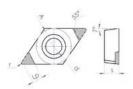
Technical Drawing



Code			Dimensions		
	ØA	s	r	а	Lp
	DΛ.	3	•	а	ĽР
DCMW 070202 DC-GL HPCBN	6,35	2,38	0,2	2,8	2,5-3,5
DCMW 070204 DC-GL HPCBN	6,35	2,38	0,4	2,8	2,5-3,5
DCMW 070208 DC-GL HPCBN	6,35	2,38	0,8	2,8	2,5-3,5
DCMW 11T302 DC-GL HPCBN	9,525	3,18	0,2	4,4	2,5-3,5
DCMW 11T304 DC-GL HPCBN	9,525	3,18	0,4	4,4	2,5-3,5
DCMW 11T308 DC-GL HPCBN	9,525	3,18	0,8	4,4	2,5-3,5

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Technical Drawing



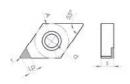
Code					
DCMW 070202 DC-GL-2 HPCBN					
DCMW 070204 DC-GL-2 HPCBN					
DCMW 070208 DC-GL-2 HPCBN					
DCMW 11T302 DC-GL-2 HPCBN					
DCMW 11T304 DC-GL-2 HPCBN					
DCMW 11T308 DC-GL-2 HPCBN					

Dimensions								
ØA	s	r	a	Lp				
6,35	2,38	0,2	2,8	2,5-3,5				
6,35	2,38	0,4	2,8	2,5-3,5				
6,35	2,38	0,8	2,8	2,5-3,5				
9,525	3,18	0,2	4,4	2,5-3,5				
9,525	3,18	0,4	4,4	2,5-3,5				
9,525	3,18	0,8	4,4	2,5-3,5				

3D Picture

Technical Drawing





Code	
DNGA 150404 DC-GL HPCBN	
DNGA 150408 DC-GL HPCBN	
DNGA 150412 DC-GL HPCBN	
DNGA 150604 DC-GL HPCBN	
DNGA 150608 DC-GL HPCBN	
DNGA 150612 DC-GL HPCBN	

		Dimensions		
ØA	s	r	а	Lp
12,7	4,76	0,4	5,16	2,5-3,5
12,7	4,76	0,8	5,16	2,5-3,5
12,7	4,76	1,2	5,16	2,5-3,5
12,7	4,76	0,4	5,16	2,5-3,5
12,7	6,35	0,8	5,16	2,5-3,5
12,7	6,35	1,2	5,16	2,5-3,5

3D Picture

Technical Drawing

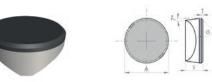






Code	Dimensions					
	ØA	s	r	a	Lp	
DNGA 150404 DC-GL-2 HPCBN	12,7	4,76	0,4	5,16	2,5-3,5	
DNGA 150408 DC-GL-2 HPCBN	12,7	4,76	0,8	5,16	2,5-3,5	
DNGA 150412 DC-GL-2 HPCBN	12,7	4,76	1,2	5,16	2,5-3,5	
DNGA 150604 DC-GL-2 HPCBN	12,7	4,76	0,4	5,16	2,5-3,5	
DNGA 150608 DC-GL-2 HPCBN	12,7	6,35	0,8	5,16	2,5-3,5	
DNGA 150612 DC-GL-2 HPCBN	12,7	6,35	1,2	5,16	2,5-3,5	

Technical Drawing



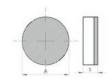
Code
RCGX 0603 M0 DC-FF HPCBN
RCGX 0903 M0 DC-FF HPCBN
RCGX 1204 M0 DC-FF HPCBN
RCGX 0607 M0 DC-FF HPCBN
RCGX 0907 M0 DC-FF HPCBN
RCGX 1207 M0 DC-FF HPCBN
RCGX 1207 M0 DC-FF HPCBN

Dimensions								
ØA	s	r	a	Lp				
6,35	3,18	-	-	-				
9,525	3,18	-	-	-				
12,7	4,76	=	-	=				
6,35	4,76	-	-	-				
9,525	4,76	-	-	-				
12,7	4,76	-	-	-				

3D Picture

Technical Drawing





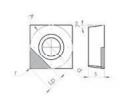
Code
RNGN 09T3 M0 DC-FF HPCBN
RNGN 10T3 M0 DC-FF HPCBN
RNGN12T3 M0 DC-FF HPCBN
RNGN13T3 M0 DC-FF HPCBN
RNGN1504 M0 DC-FF HPCBN
RNGN 1906 M0 DC-FF HPCBN

	Dimensions									
ØA		s	r	a	Lp					
9,525	3	,97	-	-	-					
10	3	,97	-	=	-					
12,7	3	,97	-	-	-					
13	3	,97	-	-	-					
15,875	5 4	,76	-	-	-					
19,05	6	,35	-	-	-					

3D Picture

Technical Drawing



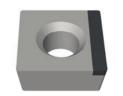


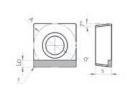
Code
SCMW 090304 DC-GL HPCBN
SCMW 090308 DC-GL HPCBN
SCMW 090312 DC-GL HPCBN
SCMW 120404 DC-GL HPCBN
SCMW 120408 DC-GL HPCBN
SCMW 120412 DC-GL HPCBN

Dimensions									
ØA	s	r	a	Lp					
9,525	3,18	0,4	4,4	2,5-3,5					
9,525	3,18	0,8	4,4	2,5-3,5					
9,525	3,18	1,2	4,4	2,5-3,5					
12,7	4,76	0,4	5,16	2,5-3,5					
12,7	4,76	0,8	5,16	2,5-3,5					
12,7	4,76	1,2	5,16	2,5-3,5					

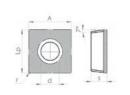
3D Picture

Technical Drawing

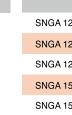




Code	Dimensions				
	ØA	s	r	a	Lp
SCMW 090304 DC-FE HPCBN	9,525	3,18	0,4	4,4	2,5-3,5
SCMW 090308 DC-FE HPCBN	9,525	3,18	0,8	4,4	2,5-3,5
SCMW 090312 DC-FE HPCBN	9,525	3,18	1,2	4,4	2,5-3,5
SCMW 120404 DC-FE HPCBN	12,7	4,76	0,4	5,16	2,5-3,5
SCMW 120408 DC-FE HPCBN	12,7	4,76	0,8	5,16	2,5-3,5
SCMW 120412 DC-FE HPCBN	12,7	4,76	1,2	5,16	2,5-3,5



Code		Dimensions					
	ØA	s	r	а	Lp		
SCMW 090304 DC-FF HPCBN	9,525	3,18	0,4	4,4	2,5-3,5		
SCMW 090308 DC-FF HPCBN	9,525	3,18	0,8	4,4	2,5-3,5		
SCMW 090312 DC-FF HPCBN	9,525	3,18	1,2	4,4	2,5-3,5		
SCMW 120404 DC-FF HPCBN	12,7	4,76	0,4	5,16	2,5-3,5		
SCMW 120408 DC-FF HPCBN	12,7	4,76	0,8	5,16	2,5-3,5		
SCMW 120412 DC-FF HPCBN	12,7	4,76	1,2	5,16	2,5-3,5		



SNGA 120404 DC-GL HPCBN SNGA 120408 DC-GL HPCBN SNGA 120412 DC-GL HPCBN SNGA 150404 DC-GL HPCBN SNGA 150408 DC-GL HPCBN SNGA 150412 DC-GL HPCBN SNGA 150604 DC-GL HPCBN SNGA 150608 DC-GL HPCBN SNGA 150612 DC-GL HPCBN

		Dimensions		
ØA	s	r	a	Lp
12,7	4,76	0,4	5,16	2,5-3,5
12,7	4,76	0,8	5,16	2,5-3,5
12,7	4,76	1,2	5,16	2,5-3,5
15,875	4,76	0,4	6,35	2,5-3,5
15,875	4,76	0,8	6,35	2,5-3,5
15,875	4,76	1,2	6,35	2,5-3,5
15,875	6,35	0,4	6,35	2,5-3,5
15,875	6,35	0,8	6,35	2,5-3,5
15,875	6,35	1,2	6,35	2,5-3,5

Technical Drawing

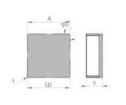




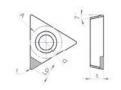
2000
SNGN 09T304 DC-GL HPCBN
SNGN 09T308 DC-GL HPCBN
SNGN 09T312 DC-GL HPCBN
SNGN 120404 DC-GL HPCBN
SNGN 120408 DC-GL HPCBN
SNGN 120412 DC-GL HPCBN

Dimensions									
ØA		s		r		а		Lp	
9,525		3,97		0,4		-		2,5-3,5	
9,525		3,97		0,8		-		2,5-3,5	
9,525		3,97		1,2		-		2,5-3,5	
12,7		4,76		0,4		-		2,5-3,5	
12,7		4,76		0,8		-		2,5-3,5	
12,7		4,76		1,2		-		2,5-3,5	





Code		Dimensions					
	ØA	s	r	а	Lp		
SNGN 09T304 DC-FF HPCBN	9,525	3,97	0,4	-	2,5-3,5		
SNGN 09T308 DC-FF HPCBN	9,525	3,97	0,8	-	2,5-3,5		
SNGN 09T312 DC-FF HPCBN	9,525	3,97	1,2	-	2,5-3,5		
SNGN 120404 DC-FF HPCBN	12,7	4,76	0,4	-	2,5-3,5		
SNGN 120408 DC-FF HPCBN	12,7	4,76	0,8	-	2,5-3,5		
SNGN 120412 DC-FF HPCBN	12,7	4,76	1,2	-	2,5-3,5		



Code			Dimensions		
	ØA	s	r	а	Lp
TCMW 06T102 DC-GL HPCBN	3,97	1,98	0,2	2,5	2,5-3,5
TCMW 06T104 DC-GL HPCBN	3,97	1,98	0,4	2,5	2,5-3,5
TCMW 06T108 DC-GL HPCBN	3,97	1,98	0,8	2,5	2,5-3,5
TCMW 090202 DC-GL HPCBN	5,56	2,38	0,2	2,8	2,5-3,5
TCMW 090204 DC-GL HPCBN	5,56	2,38	0,4	2,8	2,5-3,5
TCMW 090208 DC-GL HPCBN	5,56	2,38	0,8	2,8	2,5-3,5
TCMW 110202 DC-GL HPCBN	6,35	2,38	0,2	3,3	2,5-3,5
TCMW 110204 DC-GL HPCBN	6,35	2,38	0,4	3,3	2,5-3,5
TCMW 110208 DC-GL HPCBN	6,35	2,38	0,8	3,3	2,5-3,5
TCMW 16T304 DC-GL HPCBN	9,525	3,97	0,4	4,4	2,5-3,5
TCMW 16T308 DC-GL HPCBN	9,525	3,97	0,8	4,4	2,5-3,5

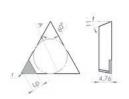




Code
TNMA 160404 DC-GL HPCBN
TNMA 160408 DC-GL HPCBN
TNMA 160412 DC-GL HPCBN
TNMA 220404 DC-GL HPCBN
TNMA 220408 DC-GL HPCBN
TNMA 220412 DC-GL HPCBN

Dimensions									
ØA	s	r	а	Lp					
9,525	4,76	0,4	3,81	2,5-3,5					
9,525	4,76	0,8	3,81	2,5-3,5					
9,525	4,76	1,2	3,81	2,5-3,5					
12,7	4,76	0,4	5,16	2,5-3,5					
12,7	4,76	0,8	5,16	2,5-3,5					
12,7	4,76	1,2	5,16	2,5-3,5					

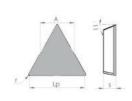




TPGN 11T302 DC-GL HPCBN
TPGN 11T304 DC-GL HPCBN
TPGN 11T308 DC-GL HPCBN
TPGN 160404 DC-GL HPCBN
TPGN 160408 DC-GL HPCBN
TPGN 160412 DC-GL HPCBN

		Dimensions		
ØA	s	r	а	Lp
6,35	3,97	0,2	-	2,5-3,5
6,35	3,97	0,4	-	2,5-3,5
6,35	3,97	0,8	-	2,5-3,5
9,525	4,76	0,2	-	2,5-3,5
9,525	4,76	0,4	-	2,5-3,5
9,525	4,76	0,8	-	2,5-3,5





	Dimensions			
ØA	s	r	а	Lp
6,35	3,97	0,2	-	2,5-3,5
6,35	3,97	0,4	-	2,5-3,5
6,35	3,97	0,8	-	2,5-3,5
9,525	4,76	0,2	-	2,5-3,5
9,525	4,76	0,4	_	2,5-3,5
9,525	4,76	0,8	-	2,5-3,5
	6,35 6,35 6,35 9,525 9,525	6,35 3,97 6,35 3,97 6,35 3,97 9,525 4,76 9,525 4,76	ØA s r 6,35 3,97 0,2 6,35 3,97 0,4 6,35 3,97 0,8 9,525 4,76 0,2 9,525 4,76 0,4	ØA s r a 6,35 3,97 0,2 - 6,35 3,97 0,4 - 6,35 3,97 0,8 - 9,525 4,76 0,2 - 9,525 4,76 0,4 -



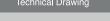


Code			Dimensions		
	ØA	s	r	а	Lp
VBMW 110302 DC-GL HPCBN	6,35	3,18	0,2	2,8	2,5-3,5
VBMW 110304 DC-GL HPCBN	6,35	3,18	0,4	2,8	2,5-3,5
VBMW 110308 DC-GL HPCBN	6,35	3,18	0,8	2,8	2,5-3,5
VBMW 160402 DC-GL HPCBN	9,525	4,76	0,2	4,4	2,5-3,5
VBMW 160404 DC-GL HPCBN	9,525	4,76	0,4	4,4	2,5-3,5
VBMW 160408 DC-GL HPCBN	9,525	4,76	0,8	4,4	2,5-3,5
VBMW 160412 DC-GL HPCBN	9,525	4,76	1,2	4,4	2,5-3,5
VBMW 160416 DC-GL HPCBN	9,525	4,76	1,6	4,4	2,5-3,5
VBMW 160418 DC-GL HPCBN	9,525	4,76	1,8	4,4	2,5-3,5
VBMW 160420 DC-GL HPCBN	9,525	4,76	2,0	4,4	2,5-3,5





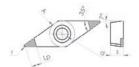
Code			Dimensions		
	ØA	s	r	a	Lp
VBMW 110302 DC-GL-2 HPCBN	6,35	3,18	0,2	2,8	2,5-3,5
VBMW 110304 DC-GL-2 HPCBN	6,35	3,18	0,4	2,8	2,5-3,5
VBMW 110308 DC-GL-2 HPCBN	6,35	3,18	0,8	2,8	2,5-3,5
VBMW 160402 DC-GL-2 HPCBN	9,525	4,76	0,2	4,4	2,5-3,5
VBMW 160404 DC-GL-2 HPCBN	9,525	4,76	0,4	4,4	2,5-3,5
VBMW 160408 DC-GL-2 HPCBN	9,525	4,76	0,8	4,4	2,5-3,5
VBMW 160412 DC-GL-2 HPCBN	9,525	4,76	1,2	4,4	2,5-3,5
VBMW 160416 DC-GL-2 HPCBN	9,525	4,76	1,6	4,4	2,5-3,5
VBMW 160418 DC-GL-2 HPCBN	9,525	4,76	1,8	4,4	2,5-3,5
VBMW 160420 DC-GL-2 HPCBN	9,525	4,76	2,0	4,4	2,5-3,5





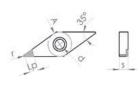
Code		Dimensions				
	ØA	s	r	а	Lp	
VCMW 110302 DC-GL HPCBN	6,35	2,38	0,2	2,8	2,5-3,5	
VCMW 110304 DC-GL HPCBN	6,35	2,38	0,4	2,8	2,5-3,5	
VCMW 110308 DC-GL HPCBN	6,35	2,38	0,8	2,8	2,5-3,5	
VCMW 160402 DC-GL HPCBN	9,525	4,76	0,2	4,4	2,5-3,5	
VCMW 160404 DC-GL HPCBN	9,525	4,76	0,4	4,4	2,5-3,5	
VCMW 160408 DC-GL HPCBN	9,525	4,76	0,8	4,4	2,5-3,5	
VCMW 160412 DC-GL HPCBN	9,525	4,76	1,2	4,4	2,5-3,5	
VCMW 160416 DC-GL HPCBN	9,525	4,76	1,6	4,4	2,5-3,5	
VCMW 160418 DC-GL HPCBN	9,525	4,76	1,8	4,4	2,5-3,5	
VCMW 160420 DC-GL HPCBN	9,525	4,76	2,0	4,4	2,5-3,5	





Code	Dimensions				
	ØA	s	r	a	Lp
VCMW 110302 DC-GL-2 HPCBN	6,35	2,38	0,2	2,8	2,5-3,5
VCMW 110304 DC-GL-2 HPCBN	6,35	2,38	0,4	2,8	2,5-3,5
VCMW 110308 DC-GL-2 HPCBN	6,35	2,38	0,8	2,8	2,5-3,5
VCMW 160402 DC-GL-2 HPCBN	9,525	4,76	0,2	4,4	2,5-3,5
VCMW 160404 DC-GL-2 HPCBN	9,525	4,76	0,4	4,4	2,5-3,5
VCMW 160408 DC-GL-2 HPCBN	9,525	4,76	0,8	4,4	2,5-3,5
VCMW 160412 DC-GL-2 HPCBN	9,525	4,76	1,2	4,4	2,5-3,5
VCMW 160416 DC-GL-2 HPCBN	9,525	4,76	1,6	4,4	2,5-3,5
VCMW 160418 DC-GL-2 HPCBN	9,525	4,76	1,8	4,4	2,5-3,5
VCMW 160420 DC-GL-2 HPCBN	9,525	4,76	2,0	4,4	2,5-3,5

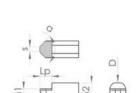




8686
VNGA 160404 DC-GL HPCBN
VNGA 160408 DC-GL HPCBN
VNGA 160412 DC-GL HPCBN
VNGA 220404 DC-GL HPCBN
VNGA 220408 DC-GL HPCBN
VNGA 220412 DC-GL HPCBN

Dimensions									
ØA	s	r	a	Lp					
9,525	4,76	0,4	3,81	2,5-3,5					
9,525	4,76	0,8	3,81	2,5-3,5					
9,525	4,76	1,2	3,81	2,5-3,5					
12,7	4,76	0,4	5,16	2,5-3,5					
12,7	4,76	0,8	5,16	2,5-3,5					
12,7	4,76	1,2	5,16	2,5-3,5					

Technical Drawing

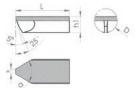


Code	Dimensions				
	D	α	h1-h2	s	L
N8 HF HPCD	2,5	90	0,2 - 0,6	0,8	5,5
N10 HF HPCD	3,0	90	0,3 - 0,8	1,0	6,8
N12 HF HPCD	4,0	90	0,3 - 0,8	1,2	8,0
N14 HF HPCD	5,0	90	0,4 - 1,0	1,4	9,5
N16 HF HPCD	5,0	90	0,4 - 1,0	1,6	11,0
N18 HF HPCD	6,0	90	0,5 - 1,2	1,8	12,0
N20 HF HPCD	8,0	90	0,6 - 1,6	2,0	14,1
N22 HF HPCD	8,0	90	0,6 - 1,6	2,2	15,0
N24 HF HPCD	8,0	90	0,6 - 1,6	2,4	18,0
N25 HF HPCD	8,0	90	0,6 - 1,6	2,5	18,47
N28 HF HPCD	10,0	90	0,8 - 2,0	2,8	20
N32 HF HPCD	10,0	90	0,8 - 2,0	3,2	23
N36 HF HPCD	12,0	90	1,0 - 2,4	3,6	25
N40 HE HPCD	14.0	90	11-28	4.0	28

3D Picture

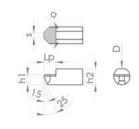
Technical Drawing





Code	Dimensions				
	D	α	h1	s	L
N8 FF HPCD	2,5	90	0,2	0,8	5,5
N10 FF HPCD	3,0	90	0,3	1,0	6,8
N12 FF HPCD	4,0	90	0,3	1,2	8,0
N14 FF HPCD	5,0	90	0,4	1,4	9,5
N16 FF HPCD	5,0	90	0,4	1,6	11,0
N18 FF HPCD	6,0	90	0,5	1,8	12,0
N20 FF HPCD	8,0	90	0,6	2,0	14,1
N22 FF HPCD	8,0	90	0,6	2,2	15,0
N24 FF HPCD	8,0	90	0,6	2,4	18,0
N25 FF HPCD	8,0	90	0,6	2,5	18,47
N28 FF HPCD	10,0	90	0,8	2,8	20
N32 FF HPCD	10,0	90	0,8	3,2	23
N36 FF HPCD	12,0	90	1,0	3,6	25
N40 FF HPCD	14,0	90	1,1	4,0	28

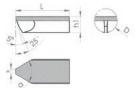




Code	Dimensions				
	D	α	h1-h2	s	L
N8 HF HPCBN	2,5	90	0,2 - 0,6	0,8	5,5
N10 HF HPCBN	3,0	90	0,3 - 0,8	1,0	6,8
N12 HF HPCBN	4,0	90	0,3 - 0,8	1,2	8,0
N14 HF HPCBN	5,0	90	0,4 - 1,0	1,4	9,5
N16 HF HPCBN	5,0	90	0,4 - 1,0	1,6	11,0
N18 HF HPCBN	6,0	90	0,5 - 1,2	1,8	12,0
N20 HF HPCBN	8,0	90	0,6 - 1,6	2,0	14,1
N22 HF HPCBN	8,0	90	0,6 - 1,6	2,2	15,0
N24 HF HPCBN	8,0	90	0,6 - 1,6	2,4	18,0
N25 HF HPCBN	8,0	90	0,6 - 1,6	2,5	18,47
N28 HF HPCBN	10,0	90	0,8 - 2,0	2,8	20
N32 HF HPCBN	10,0	90	0,8 - 2,0	3,2	23
N36 HF HPCBN	12,0	90	1,0 - 2,4	3,6	25
N40 HF HPCBN	14,0	90	1,1 - 2,8	4,0	28







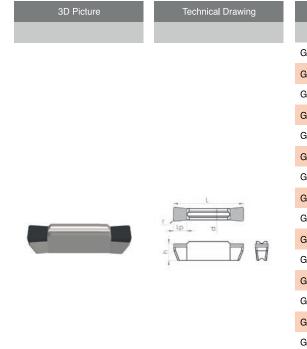
Code	Dimensions				
	D	α	h1	s	L
N8 FF HPCBN	2,5	90	0,2	0,8	5,5
N10 FF HPCBN	3,0	90	0,3	1,0	6,8
N12 FF HPCBN	4,0	90	0,3	1,2	8,0
N14 FF HPCBN	5,0	90	0,4	1,4	9,5
N16 FF HPCBN	5,0	90	0,4	1,6	11,0
N18 FF HPCBN	6,0	90	0,5	1,8	12,0
N20 FF HPCBN	8,0	90	0,6	2,0	14,1
N22 FF HPCBN	8,0	90	0,6	2,2	15,0
N24 FF HPCBN	8,0	90	0,6	2,4	18,0
N25 FF HPCBN	8,0	90	0,6	2,5	18,47
N28 FF HPCBN	10,0	90	0,8	2,8	20
N32 FF HPCBN	10,0	90	0,8	3,2	23
N36 FF HPCBN	12,0	90	1,0	3,6	25
N40 FF HPCBN	14,0	90	1,1	4,0	28

PCD&CBN GROOVING TOOLS



	0 0

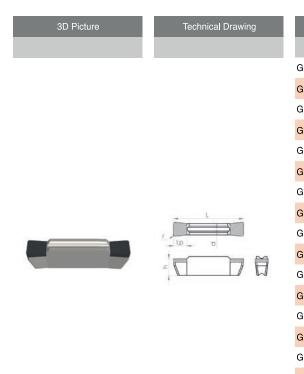
Code			Dimensions		
	b	d	r	h	L
GHN 1,50 - R0,20 DC-GL HPCD	1,5	1,2	0,2	3,5	16
GHN 1,50 - R0,40 DC-GL HPCD	1,5	1,2	0,4	3,5	16
GHN 2,00 - R0,20 DC-GL HPCD	2,0	1,6	0,2	3,5	16
GHN 2,00 - R0,40 DC-GL HPCD	2,0	1,6	0,4	3,5	16
GHN 2,50 - R0,20 DC-GL HPCD	2,5	2,0	0,2	3,85	18,5
GHN 2,50 - R0,40 DC-GL HPCD	2,5	2,0	0,4	3,85	18,5
GHN 2,50 - R0,80 DC-GL HPCD	2,5	2,0	0,8	3,85	18,5
GHN 3,00 - R0,20 DC-GL HPCD	3,0	2,35	0,2	4,8	21
GHN 3,00 - R0,40 DC-GL HPCD	3,0	2,35	0,4	4,8	21
GHN 3,00 - R0,80 DC-GL HPCD	3,0	2,35	0,8	4,8	21
GHN 4,00 - R0,20 DC-GL HPCD	4,0	3,3	0,2	4,8	21
GHN 4,00 - R0,40 DC-GL HPCD	4,0	3,3	0,4	4,8	21
GHN 4,00 - R0,80 DC-GL HPCD	4,0	3,3	0,8	4,8	21
GHN 5,00 - R0,20 DC-GL HPCD	5,0	4,1	0,2	5,8	26
GHN 5,00 - R0,40 DC-GL HPCD	5,0	4,1	0,4	5,8	26
GHN 5,00 - R0,80 DC-GL HPCD	5,0	4,1	0,8	5,8	26
GHN 6,00 - R0,20 DC-GL HPCD	6,0	5,0	0,2	5,8	26
GHN 6,00 - R0,40 DC-GL HPCD	6,0	5,0	0,4	5,8	26
GHN 6,00 - R0,80 DC-GL HPCD	6,0	5,0	0,8	5,8	26



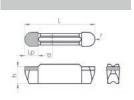
Code			Dimensions		
	b	d	r	h	L
GHN 1,50 - R0,20 DC-GL-2 HPCD	1,5	1,2	0,2	3,5	16
GHN 1,50 - R0,40 DC-GL-2 HPCD	1,5	1,2	0,4	3,5	16
GHN 2,00 - R0,20 DC-GL-2 HPCD	2,0	1,6	0,2	3,5	16
GHN 2,00 - R0,40 DC-GL-2 HPCD	2,0	1,6	0,4	3,5	16
GHN 2,50 - R0,20 DC-GL-2 HPCD	2,5	2,0	0,2	3,85	18,5
GHN 2,50 - R0,40 DC-GL-2 HPCD	2,5	2,0	0,4	3,85	18,5
GHN 2,50 - R0,80 DC-GL-2 HPCD	2,5	2,0	0,8	3,85	18,5
GHN 3,00 - R0,20 DC-GL-2 HPCD	3,0	2,35	0,2	4,8	21
GHN 3,00 - R0,40 DC-GL-2 HPCD	3,0	2,35	0,4	4,8	21
GHN 3,00 - R0,80 DC-GL-2 HPCD	3,0	2,35	0,8	4,8	21
GHN 4,00 - R0,20 DC-GL-2 HPCD	4,0	3,3	0,2	4,8	21
GHN 4,00 - R0,40 DC-GL-2 HPCD	4,0	3,3	0,4	4,8	21
GHN 4,00 - R0,80 DC-GL-2 HPCD	4,0	3,3	0,8	4,8	21
GHN 5,00 - R0,20 DC-GL-2 HPCD	5,0	4,1	0,2	5,8	26
GHN 5,00 - R0,40 DC-GL-2 HPCD	5,0	4,1	0,4	5,8	26
GHN 5,00 - R0,80 DC-GL-2 HPCD	5,0	4,1	0,8	5,8	26
GHN 6,00 - R0,20 DC-GL-2 HPCD	6,0	5,0	0,2	5,8	26
GHN 6,00 - R0,40 DC-GL-2 HPCD	6,0	5,0	0,4	5,8	26
GHN 6,00 - R0,80 DC-GL-2 HPCD	6,0	5,0	0,8	5,8	26

3D Picture	Technical Drawing

Code			Dimensions		
Code			_		
	b	d	r	h	L
GHN 1.50 - R0.20 DC-GL HPCBN	1,5	1,2	0,2	3,5	16
GHN 1.50 - R0.40 DC-GL HPCBN	1,5	1,2	0,4	3,5	16
GHN 2.00 - R0.20 DC-GL HPCBN	2,0	1,6	0,2	3,5	16
GHN 2.00 - R0.40 DC-GL HPCBN	2,0	1,6	0,4	3,5	16
GHN 2.50 - R0.20 DC-GL HPCBN	2,5	2,0	0,2	3,85	18,5
GHN 2.50 - R0.40 DC-GL HPCBN	2,5	2,0	0,4	3,85	18,5
GHN 2.50 - R0.80 DC-GL HPCBN	2,5	2,0	0,8	3,85	18,5
GHN 3.00 - R0.20 DC-GL HPCBN	3,0	2,35	0,2	4,8	21
GHN 3.00 - R0.40 DC-GL HPCBN	3,0	2,35	0,4	4,8	21
GHN 3.00 - R0.80 DC-GL HPCBN	3,0	2,35	0,8	4,8	21
GHN 4.00 - R0.20 DC-GL HPCBN	4,0	3,3	0,2	4,8	21
GHN 4.00 - R0.40 DC-GL HPCBN	4,0	3,3	0,4	4,8	21
GHN 4.00 - R0.80 DC-GL HPCBN	4,0	3,3	0,8	4,8	21
GHN 5.00 - R0.20 DC-GL HPCBN	5,0	4,1	0,2	5,8	26
GHN 5.00 - R0.40 DC-GL HPCBN	5,0	4,1	0,4	5,8	26
GHN 5.00 - R0.80 DC-GL HPCBN	5,0	4,1	0,8	5,8	26
GHN 6.00 - R0.20 DC-GL HPCBN	6,0	5,0	0,2	5,8	26
GHN 6.00 - R0.40 DC-GL HPCBN	6,0	5,0	0,4	5,8	26
GHN 6.00 - R0.80 DC-GL HPCBN	6,0	5,0	0,8	5,8	26



Code	Dimensions				
	b	d	r	h	L
GHN 1.50 - R0.20 DC-GL-2 HPCBN	1,5	1,2	0,2	3,5	16
GHN 1.50 - R0.40 DC-GL-2 HPCBN	1,5	1,2	0,4	3,5	16
GHN 2.00 - R0.20 DC-GL-2 HPCBN	2,0	1,6	0,2	3,5	16
GHN 2.00 - R0.40 DC-GL-2 HPCBN	2,0	1,6	0,4	3,5	16
GHN 2.50 - R0.20 DC-GL-2 HPCBN	2,5	2,0	0,2	3,85	18,5
GHN 2.50 - R0,40 DC-GL-2 HPCBN	2,5	2,0	0,4	3,85	18,5
GHN 2.50 - R0.80 DC-GL-2 HPCBN	2,5	2,0	0,8	3,85	18,5
GHN 3.00 - R0.20 DC-GL-2 HPCBN	3,0	2,35	0,2	4,8	21
GHN 3.00 - R0.40 DC-GL-2 HPCBN	3,0	2,35	0,4	4,8	21
GHN 3.00 - R0.80 DC-GL-2 HPCBN	3,0	2,35	0,8	4,8	21
GHN 4.00 - R0.20 DC-GL-2 HPCBN	4,0	3,3	0,2	4,8	21
GHN 4.00 - R0.40 DC-GL-2 HPCBN	4,0	3,3	0,4	4,8	21
GHN 4.00 - R0.80 DC-GL-2 HPCBN	4,0	3,3	0,8	4,8	21
GHN 5.00 - R0.20 DC-GL-2 HPCBN	5,0	4,1	0,2	5,8	26
GHN 5.00 - R0.40 DC-GL-2 HPCBN	5,0	4,1	0,4	5,8	26
GHN 5.00 - R0.80 DC-GL-2 HPCBN	5,0	4,1	0,8	5,8	26
GHN 6.00 - R0.20 DC-GL-2 HPCBN	6,0	5,0	0,2	5,8	26
GHN 6.00 - R0.40 DC-GL-2 HPCBN	6,0	5,0	0,4	5,8	26
GHN 6.00 - R0.80 DC-GL-2 HPCBN	6,0	5,0	0,8	5,8	26



Code				
GHR 2,00 - R1,00 DC-GL HPCD				
GHR 3,00 - R1,50 DC-GL HPCD				
GHR 4,00 - R2,00 DC-GL HPCD				
GHR 5,00 - R2,50 DC-GL HPCD				
GHR 6,00 - R3,00 DC-GL HPCD				

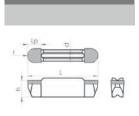
GHR 2.00 - R1.00 GHR 3.00 - R1.50 GHR 4.00 - R2.00 GHR 5.00 - R2.50 GHR 6.00 - R3.00

Dimensions							
b	d	r	h	L			
2,0	1,6	1,0	3,5	16			
3,0	2,35	1,5	4,8	21			
4,0	3,3	2,0	4,8	21			
5,0	4,1	2,5	5,8	26			
6,0	5,0	3,0	5,8	26			



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le		Dimensions						
	b	d	r	h	L			
DC-GL HPCBN	2,0	1,6	1,0	3,5	16			
DC-GL HPCBN	3,0	2,35	1,5	4,8	21			
DC-GL HPCBN	4,0	3,3	2,0	4,8	21			
DC-GL HPCBN	5,0	4,1	2,5	5,8	26			
DC-GL HPCBN	6,0	5,0	3,0	5,8	26			



Code
GHR 2,00 - R1,00 DC-GL-2 HPCD
GHR 3,00 - R1,50 DC-GL-2 HPCD
GHR 4,00 - R2,00 DC-GL-2 HPCD
GHR 5,00 - R2,50 DC-GL-2 HPCD
GHR 6,00 - R3,00 DC-GL-2 HPCD

Dimensions							
b	d	r	h	L			
2,0	1,6	1,0	3,5	16			
3,0	2,35	1,5	4,8	21			
4,0	3,3	2,0	4,8	21			
5,0	4,1	2,5	5,8	26			
6,0	5,0	3,0	5,8	26			

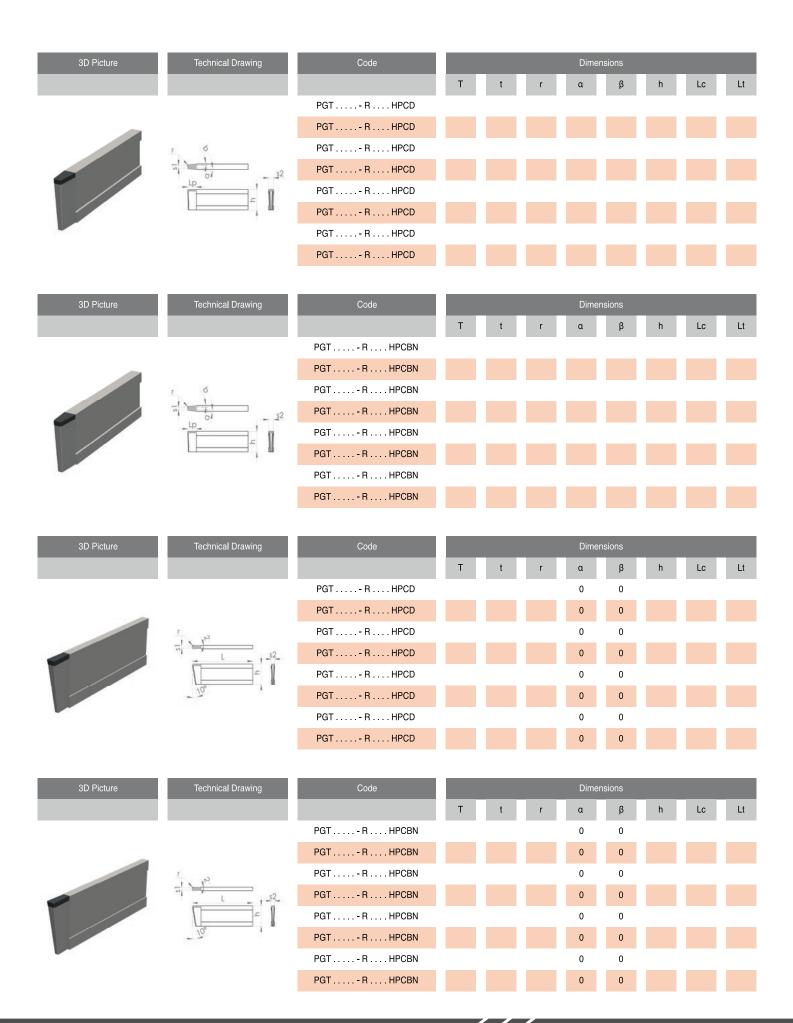


Code					
GHR 2.00 - R1.00 DC-GL-2 HPCBN					
GHR 3.00 - R1.50 DC-GL-2 HPCBN					
GHR 4.00 - R2.00 DC-GL-2 HPCBN					
GHR 5.00 - R2.50 DC-GL-2 HPCBN					
GHR 6.00 - R3.00 DC-GL-2 HPCBN					

Dimensions								
b	d	r	h	L				
2,0	1,6	1,0	3,5	16				
3,0	2,35	1,5	4,8	21				
4,0	3,3	2,0	4,8	21				
5,0	4,1	2,5	5,8	26				
6.0	5.0	3.0	5.8	26				

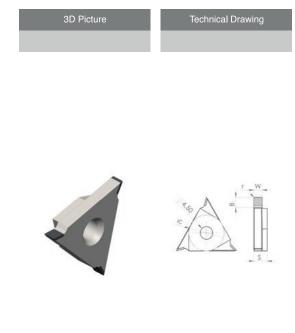






3D Picture	Technical Drawing
	F W

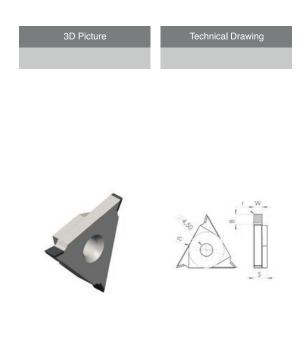
Code			Dimensions		
	W	Lc	r	ФА	s
THN R/L3 0,75 - R0,20 HPCD	0,75	2,0	0,2	9,525	3,18
THN R/L3 1,00 - R0,20 HPCD	1,00	2,0	0,2	9,525	3,18
THN R/L3 1,25 - R0,20 HPCD	1,25	2,0	0,2	9,525	3,18
THN R/L3 1,35 - R0,20 HPCD	1,35	2,0	0,2	9,525	3,18
THN R/L3 1,45 - R0,20 HPCD	1,45	2,0	0,2	9,525	3,18
THN R/L3 1,50 - R0,20 HPCD	1,50	2,0	0,2	9,525	3,18
THN R/L3 1,65 - R0,20 HPCD	1,65	2,0	0,2	9,525	3,18
THN R/L3 1,75 - R0,20 HPCD	1,75	2,0	0,2	9,525	3,18
THN R/L3 1,85 - R0,20 HPCD	1,85	2,0	0,2	9,525	3,18
THN R/L3 2,00 - R0,20 HPCD	2,00	2,5	0,2	9,525	3,18
THN R/L3 2,50 - R0,20 HPCD	2,50	2,5	0,2	9,525	3,18
THN R/L3 2,65 - R0,20 HPCD	2,65	2,5	0,2	9,525	3,18
THN R/L3 2,75 - R0,20 HPCD	2,75	2,5	0,2	9,525	3,18
THN R/L3 2,80 - R0,20 HPCD	2,80	2,5	0,2	9,525	3,18



Code	Dimensions				
	W	Lc	r	ФА	s
THN R/L4 1,25 - R0,20 HPCD	1,25	2,0	0,2	12,7	4,76
THN R/L4 1,45 - R0,20 HPCD	1,45	2,0	0,2	12,7	4,76
THN R/L4 1,50 - R0,20 HPCD	1,50	3,5	0,2	12,7	4,76
THN R/L4 1,75 - R0,20 HPCD	1,75	3,5	0,2	12,7	4,76
THN R/L4 2,00 - R0,20 HPCD	2,00	3,5	0,2	12,7	4,76
THN R/L4 2,30 - R0,20 HPCD	2,30	3,5	0,2	12,7	4,76
THN R/L4 2,50 - R0,20 HPCD	2,50	4,5	0,2	12,7	4,76
THN R/L4 2,70 - R0,20 HPCD	2,70	4,5	0,2	12,7	4,76
THN R/L4 2,80 - R0,20 HPCD	2,80	4,5	0,2	12,7	4,76
THN R/L4 3,00 - R0,20 HPCD	3,00	4,5	0,2	12,7	4,76
THN R/L4 3,20 - R0,20 HPCD	3,20	4,5	0,2	12,7	4,76
THN R/L4 3,50 - R0,20 HPCD	3,50	4,5	0,2	12,7	4,76
THN R/L4 3,70 - R0,20 HPCD	3,70	4,5	0,2	12,7	4,76
THN R/L4 3,90 - R0,20 HPCD	3,90	4,5	0,2	12,7	4,76
THN R/L4 4,00 - R0,20 HPCD	4,00	4,5	0,2	12,7	4,76
THN R/L4 4,20 - R0,20 HPCD	4,20	4,5	0,2	12,7	4,76

3D Picture	Technical Drawing
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Code			Dimensions		
	W	Lc	r	ФА	S
THN R/L3 0,75 - R0,20 HPCBN	0,75	2,0	0,2	9,525	3,18
THN R/L3 1,00 - R0,20 HPCBN	1,00	2,0	0,2	9,525	3,18
THN R/L3 1,25 - R0,20 HPCBN	1,25	2,0	0,2	9,525	3,18
THN R/L3 1,35 - R0,20 HPCBN	1,35	2,0	0,2	9,525	3,18
THN R/L3 1,45 - R0,20 HPCBN	1,45	2,0	0,2	9,525	3,18
THN R/L3 1,50 - R0,20 HPCBN	1,50	2,0	0,2	9,525	3,18
THN R/L3 1,65 - R0,20 HPCBN	1,65	2,0	0,2	9,525	3,18
THN R/L3 1,75 - R0,20 HPCBN	1,75	2,0	0,2	9,525	3,18
THN R/L3 1,85 - R0,20 HPCBN	1,85	2,0	0,2	9,525	3,18
THN R/L3 2,00 - R0,20 HPCBN	2,00	2,5	0,2	9,525	3,18
THN R/L3 2,50 - R0,20 HPCBN	2,50	2,5	0,2	9,525	3,18
THN R/L3 2,65 - R0,20 HPCBN	2,65	2,5	0,2	9,525	3,18
THN R/L3 2,75 - R0,20 HPCBN	2,75	2,5	0,2	9,525	3,18
THN R/L3 2,80 - R0,20 HPCBN	2,80	2,5	0,2	9,525	3,18



Code	Dimensions				
	W	Lc	r	ФА	s
THN R/L4 1,25 - R0,20 HPCBN	1,25	2,0	0,2	12,7	4,76
THN R/L4 1,45 - R0,20 HPCBN	1,45	2,0	0,2	12,7	4,76
THN R/L4 1,50 - R0,20 HPCBN	1,50	3,5	0,2	12,7	4,76
THN R/L4 1,75 - R0,20 HPCBN	1,75	3,5	0,2	12,7	4,76
THN R/L4 2,00 - R0,20 HPCBN	2,00	3,5	0,2	12,7	4,76
THN R/L4 2,30 - R0,20 HPCBN	2,30	3,5	0,2	12,7	4,76
THN R/L4 2,50 - R0,20 HPCBN	2,50	4,5	0,2	12,7	4,76
THN R/L4 2,70 - R0,20 HPCBN	2,70	4,5	0,2	12,7	4,76
THN R/L4 2,80 - R0,20 HPCBN	2,80	4,5	0,2	12,7	4,76
THN R/L4 3,00 - R0,20 HPCBN	3,00	4,5	0,2	12,7	4,76
THN R/L4 3,20 - R0,20 HPCBN	3,20	4,5	0,2	12,7	4,76
THN R/L4 3,50 - R0,20 HPCBN	3,50	4,5	0,2	12,7	4,76
THN R/L4 3,70 - R0,20 HPCBN	3,70	4,5	0,2	12,7	4,76
THN R/L4 3,90 - R0,20 HPCBN	3,90	4,5	0,2	12,7	4,76
THN R/L4 4,00 - R0,20 HPCBN	4,00	4,5	0,2	12,7	4,76
THN R/L4 4,20 - R0,20 HPCBN	4,20	4,5	0,2	12,7	4,76



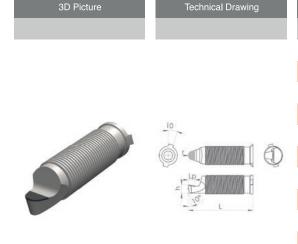
Code			Dimensions		
	ФА	s	r	а	Lp
THH 2.50 - R0.20 HPCD	25,28	2,50	0,2	5,50	4,50
THH 2.50 - R0.40 HPCD	25,28	2,50	0,4	5,50	4,50
THH 2.50 - R0.80 HPCD	25,28	2,50	0,8	5,50	4,50
THH 2.75 - R0.20 HPCD	25,28	2,75	0,2	5,50	4,50
THH 2.75 - R0.40 HPCD	25,28	2,75	0,4	5,50	4,50
THH 2.75 - R0.80 HPCD	25,28	2,75	0,8	5,50	4,50
THH 3.00 - R0.20 HPCD	25,28	3,00	0,2	5,50	4,50
THH 3.00 - R0.20 HPCD	25,28	3,00	0,4	5,50	4,50
THH 3.00 - R0.20 HPCD	25,28	3,00	0,8	5,50	4,50
THH 3.25 - R0.20 HPCD	25,28	3,25	0,2	5,50	4,50
THH 3.25 - R0.20 HPCD	25,28	3,25	0,4	5,50	4,50
THH 3.25 - R0.20 HPCD	25,28	3,25	0,8	5,50	4,50
THH 3.50 - R0.20 HPCD	25,28	3,50	0,2	5,50	4,50
THH 3.50 - R0.40 HPCD	25,28	3,50	0,4	5,50	4,50
THH 3.50 - R0.80 HPCD	25,28	3,50	0,8	5,50	4,50

3D Picture	Technical Drawing
	25.50_ 2.50

Code			Dimensions		
	ΦAs		ra		Lp
THH 2.50 - R0.20 HPCBN	25,28	2,50	0,25	,504	,50
THH 2.50 - R0.40 HPCBN	25,28	2,50	0,45	,504	,50
THH 2.50 - R0.80 HPCBN	25,28	2,50	0,85	,504	,50
THH 2.75 - R0.20 HPCBN	25,28	2,75	0,25	,504	,50
THH 2.75 - R0.40 HPCBN	25,28	2,75	0,45	,504	,50
THH 2.75 - R0.80 HPCBN	25,28	2,75	0,85	,504	,50
THH 3.00 - R0.20 HPCBN	25,28	3,00	0,25	,504	,50
THH 3.00 - R0.20 HPCBN	25,28	3,00	0,45	,504	,50
THH 3.00 - R0.20 HPCBN	25,28	3,00	0,85	,504	,50
THH 3.25 - R0.20 HPCBN	25,28	3,25	0,25	,504	,50
THH 3.25 - R0.20 HPCBN	25,28	3,25	0,45	,504	,50
THH 3.25 - R0.20 HPCBN	25,28	3,25	0,85	,504	,50
THH 3.50 - R0.20 HPCBN	25,28	3,50	0,25	,504	,50
THH 3.50 - R0.40 HPCBN	25,28	3,50	0,45	,504	,50
THH 3.50 - R0.80 HPCBN	25,28	3,50	0,85	,504	,50







Code	Dimensions				
	h	α	r	L	Lp
MTT L21 - R0.20 HPCD	2,5	10	2	21	8
MTT L21 - R0.40 HPCD	2,5	10	4	21	8
MTT L21 - R1.00 HPCD	2,5	10	10	21	8
MTT L30 - R0.20 HPCD	2,5	10	2	30	8
MTT L30 - R0.40 HPCD	2,5	10	4	30	8
MTT L30 - R1.00 HPCD	2,5	10	10	30	8
MTT L35 - R0.20 HPCD	4,5	10	2	35	8
MTT L35 - R0.40 HPCD	4,5	10	4	35	8
MTT L35 - R1.00 HPCD	4,5	10	10	35	8
MTT L35 - R0.20 HPCD	4,5	10	2	45	8
MTT L35 - R0.40 HPCD	4,5	10	4	45	8
MTT L35 - R1.00 HPCD	4,5	10	10	45	8



In today's manufacturing technologies, the features of the machines are improving day by day. Expectations are increasing especially in the processing of non-ferrous alloys. Carbide endmills, the most common tool material, are inadequate at the speeds and advances provided by the machines, and wear increases at high speeds. Therefore, the use of PCD tools is gaining more importance and application areas are increasing. The use of PCD tools makes it even more logical to reduce machining times without reducing tool life. With Hyperion PCD milling tools, keep your difference against competitors in surface quality and life while machining your parts at high speeds and feeds.



1	2	3	4	5	6	7
А	Р	К	Т	16	04	08

	1
INSERT	SHAPE
А	<u> </u>
С	14
D	Æ.
0	
R	
S	
Т	\triangle
V	
W	(8.)
Х	SPECIAL SHAPE

2					
CLEARANCE ANGLE					
В	150				
С	7.				
D	<u>7</u> 5.				
N	ű <u>.</u>				
Р	11.				
OTHER	OTHER				

3							
PRECISION							
E S.							
TOLERANCE							
CODE	m	d	s				
Α	±0.005	±0.025	±0.025				
С	±0.013	±0.025	±0.025				
E	±0.025	±0.025	±0.025				
F	±0.005	±0.025	±0.013				
G	±0.025	±0.025	±0.013				
Н	±0.013	±0.025	±0.013				
М	±0.008	±0.005	±0.013				
IVI	±0.018	±0.013	±0.013				
N	±0.008	±0.005	±0.025				
IN	±0.018	±0.013	±0.025				
U	±0.013	±0.008	±0.013				
U	±0.038	±0.025	±0.013				

	4						
	CHIP BREAKER AND FIXING TYPE						
А							
G	MIN						
М							
R							
Т							
W							
Х	SPECIAL						
	,						

8	9	10	11	12	13
Р	D	F	R	2	HPCD

	5		6		7		8		()		1	0
	CUTTING EDGE LENGTH	THICI	KNESS	CORNER	CORNER RADIUS WIPER LEAD ANGLE			WIPER CLEANER ANGLE			CUTTING EDGE PREPARATION		
		1	1.59	00	0	А	45°		С	7°		F	SHARP
		2	2.38	02	0.2	D	60°		D	15°		E	HONED
		3	3.18	04	0.4	E	75°		E	20°		Т	T-LAND
	\triangle	4	4.76	08	0.8	L	75°		G	30°		Х	SPECIAI
		5	5.56	12	12	Р	0°		N	0°			
	\bigcirc	6	6.35	15	15	S	75°		Р	11°			
1		7	7.95	20	20		11				1	2	
		9	9.52	30	30	WIPE	ER CLEANE	R AN	GLE	M	ATE	ERIAL	
				MO	ROUND INSERT	R	RIGH			НРСВІ	N	CBN	
				1									

10
CHIP BREAKER (IF APPLICABLE)
СВ

WIPER CLEANER ANGLE						
R	RIGHT HAND CUTTING ONLY					
FE-R	FULL EDGE RIGHT HAND CUTTING ONLY					
L	LEFT HAND CUTTING ONLY					
FE-L	FULL EDGE LEFT HAND CUTTING ONLY					
N	BOTH RIGHT AND LEFT CUTTING					

11°		
	1:	2
MA	ΤE	RIAL
HPCBN	J	CBN
HPCD		PCD

SHARP

HONED

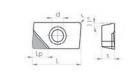
T-LAND

SPECIAL





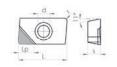
3D Picture Technical Drawing



Code			Dimensions		
	L	s	r	а	Lp
APKT100304 PDFR HPCD	11	3,65	0,4	2,8	4-5
APKT100306 PDFR HPCD	11	3,65	0,6	2,8	4-5
APKT100308 PDFR HPCD	11	3,65	0,8	2,8	4-5
APKT100310 PDFR HPCD	11	3,65	1	2,8	4-5
APKT100315 PDFR HPCD	11	3,65	1,5	2,8	4-5
APKT100320 PDFR HPCD	11	3,65	2	2,8	4-5
APKT100325 PDFR HPCD	11	3,65	2,5	2,8	4-5
APKT100330 PDFR HPCD	11	3,65	3	2,8	4-5

3D Picture Technical Drawing

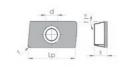




Code	Dimensions						
	L	s	r	а	Lp		
APKT100304 PDFR HPCBN	11	3,65	0,4	2,8	4-5		
APKT100306 PDFR HPCBN	11	3,65	0,6	2,8	4-5		
APKT100308 PDFR HPCBN	11	3,65	0,8	2,8	4-5		
APKT100310 PDFR HPCBN	11	3,65	1	2,8	4-5		
APKT100315 PDFR HPCBN	11	3,65	1,5	2,8	4-5		
APKT100320 PDFR HPCBN	11	3,65	2	2,8	4-5		
APKT100325 PDFR HPCBN	11	3,65	2,5	2,8	4-5		
APKT100330 PDFR HPCBN	11	3,65	3	2,8	4-5		

3D Picture	Technical Drawing

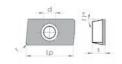




Code	Dimensions				
	L	s	r	а	Lp
APKT100304 PDFR FF HPCD	11	3,65	0,4	2,8	11
APKT100306 PDFR FF HPCD	11	3,65	0,6	2,8	11
APKT100308 PDFR FF HPCD	11	3,65	0,8	2,8	11
APKT100310 PDFR FF HPCD	11	3,65	1	2,8	11
APKT100315 PDFR FF HPCD	11	3,65	1,5	2,8	11
APKT100320 PDFR FF HPCD	11	3,65	2	2,8	11
APKT100325 PDFR FF HPCD	11	3,65	2,5	2,8	11
APKT100330 PDFR FF HPCD	11	3,65	3	2,8	11

3D Picture	Technical Drawing



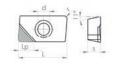


Code	Dimensions				
	L	s	r	a	Lp
APKT100304 PDFR FF HPCBN	11	3,65	0,4	2,8	11
APKT100306 PDFR FF HPCBN	11	3,65	0,6	2,8	11
APKT100308 PDFR FF HPCBN	11	3,65	0,8	2,8	11
APKT100310 PDFR FF HPCBN	11	3,65	1	2,8	11
APKT100315 PDFR FF HPCBN	11	3,65	1,5	2,8	11
APKT100320 PDFR FF HPCBN	11	3,65	2	2,8	11
APKT100325 PDFR FF HPCBN	11	3,65	2,5	2,8	11
APKT100330 PDFR FF HPCBN	11	3,65	3	2,8	11

3D Picture

Technical Drawing



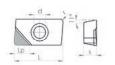


Code	Dimensions				
	L	s	r	a	Lp
APKT160402 PDFR HPCD	16,88	4,76	0,2	4,4	4-5
APKT160404 PDFR HPCD	16,88	4,76	0,4	4,4	4-5
APKT160408 PDFR HPCD	16,88	4,76	0,8	4,4	4-5
APKT160410 PDFR HPCD	16,88	4,76	0,8	4,4	4-5
APKT160412 PDFR HPCD	16,88	4,76	1,2	4,4	4-5
APKT 160424 PDFR HPCD	16,88	4,76	2.4	4,4	4-5

3D Picture

Technical Drawing





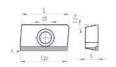
Code				
APKT160402 PDFR HPCBN				
APKT160404 PDFR HPCBN				
APKT160408 PDFR HPCBN				
APKT160410 PDFR HPCBN				
APKT160412 PDFR HPCBN				
APKT 160424 PDFR HPCBN				

	Dimensions						
L	s	r	a	Lp			
16,88	4,76	0,2	4,4	4-5			
16,88	4,76	0,4	4,4	4-5			
16,88	4,76	0,8	4,4	4-5			
16,88	4,76	0,8	4,4	4-5			
16,88	4,76	1,2	4,4	4-5			
16,88	4,76	2.4	4,4	4-5			

3D Picture

Technical Drawing





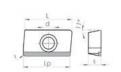
Code
APKT160402 PDFR FE HPCD
APKT160404 PDFR FE HPCD
APKT160408 PDFR FE HPCD
APKT160410 PDFR FE HPCD
APKT160412 PDFR FE HPCD
APKT 160424 PDFR FE HPCD

	Dimensions					
L	s	r	a	Lp		
16,88	4,76	0,2	4,4	16,88		
16,88	4,76	0,4	4,4	16,88		
16,88	4,76	0,8	4,4	16,88		
16,88	4,76	0,8	4,4	16,88		
16,88	4,76	1,2	4,4	16,88		
16,88	4,76	2.4	4,4	16,88		

3D Picture

Technical Drawing





Code
APKT160402 PDFR FE HPCBN
APKT160404 PDFR FE HPCBN
APKT160408 PDFR FE HPCBN
APKT160410 PDFR FE HPCBN
APKT160412 PDFR FE HPCBN
APKT 160424 PDFR FE HPCBN

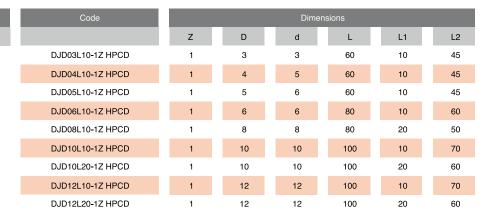
Dimensions							
L	s	r	а	Lp			
16,88	4,76	0,2	4,4	16,88			
16,88	4,76	0,4	4,4	16,88			
16,88	4,76	0,8	4,4	16,88			
16,88	4,76	0,8	4,4	16,88			
16,88	4,76	1,2	4,4	16,88			
16,88	4,76	2.4	4,4	16,88			















Code	Dimensions					
	Z	D	d	L	L1	L2
DJD08L10-2Z HPCD	2	8	8	80	10	50
DJD10L10-2Z HPCD	2	10	10	80	10	50
DJD10L20-2Z HPCD	2	10	10	80	20	50
DJD12L10-2Z HPCD	2	12	12	100	10	70
DJD12L20-2Z HPCD	2	12	12	100	20	70
DJD16L10-2Z HPCD	2	16	16	100	10	60
DJD16L20-2Z HPCD	2	16	16	100	20	70
DJD20L10-2Z HPCD	2	20	20	100	10	70
DJD20L20-2Z HPCD	2	20	20	100	20	70

3D Picture & Technical Drawing



Code				Dimensions			
	Z	D	d	L	L1	L2	θ
DKD06L10-2Z HPCD	2	6	6	60	10	45	2°
DKD06L20-2Z HPCD	2	6	6	60	20	40	2°
DKD08L10-2Z HPCD	2	8	8	80	10	60	3°
DKD08L20-2Z HPCD	2	8	8	80	20	50	3°
DKD10L10-2Z HPCD	2	10	10	80	10	50	4°
DKD10L20-2Z HPCD	2	10	10	80	20	50	4°
DKD12L10-2Z HPCD	2	12	12	85	10	60	6°
DKD12L20-2Z HPCD	2	12	12	100	20	70	6°
DKD16L10-2Z HPCD	2	16	16	85	10	60	6°
DKD16L20-2Z HPCD	2	16	16	100	20	70	6°
DKD20L10-2Z HPCD	2	20	20	100	10	70	6°
DKD20L20-2Z HPCD	2	20	20	100	20	70	6°

3D Picture & Technical Drawing



Code		Dimensions						
	Z	D	d	L	L1	L2	θ	
DKD08L10-3Z HPCD	3	8	8	80	10	50	2°	
DKD08L20-3Z HPCD	3	8	8	80	20	50	2°	
DKD10L10-3Z HPCD	3	10	10	80	10	50	3°	
DKD10L20-3Z HPCD	3	10	10	80	20	50	3°	
DKD12L10-3Z HPCD	3	12	12	100	10	70	4°	
DKD12L20-3Z HPCD	3	12	12	100	20	70	4°	
DKD16L10-3Z HPCD	3	16	16	100	10	70	5°	
DKD16L20-3Z HPCD	3	16	16	100	20	70	5°	
DKD20L10-3Z HPCD	3	20	20	100	10	70	6°	
DKD20L20-3Z HPCD	3	20	20	100	10	70	6°	

3D Picture & Technical Drawing





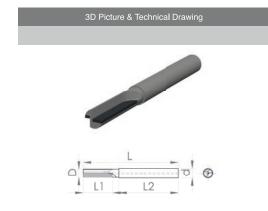
Code		Dimensions							
	Z	D	d	L	L1	L2	θ		
DKD12L10-4Z HPCD	4	12	12	100	10	70	4°		
DKD12L20-4Z HPCD	4	12	12	100	20	70	4°		
DKD12L25-4Z HPCD	4	16	16	100	25	70	4°		
DKD16L10-4Z HPCD	4	16	16	100	10	60	5°		
DKD16L20-4Z HPCD	4	16	16	100	20	70	5°		
DKD16L25-4Z HPCD	4	16	16	100	25	70	5°		
DKD20L10-4Z HPCD	4	20	20	100	10	70	6°		
DKD20L20-4Z HPCD	4	20	20	100	20	70	6°		
DKD20L25-4Z HPCD	4	20	20	100	25	70	6°		



Code				Dimensions			
	Z	D	d	R	L	L1	L2
DQD6L10-1Z HPCD	2	6	6	3	60	10	45
DQD8L10-1Z HPCD	2	8	8	4	80	10	60
DQD8L20-2Z HPCD	2	8	8	4	80	20	50
DQD10L10-2Z HPCD	2	10	10	5	80	10	60
DQD10L20-2Z HPCD	2	10	10	5	80	20	50
DQD12L10-2Z HPCD	2	12	12	6	100	10	70
DQD12L20-2Z HPCD	2	12	12	6	100	20	60
DQD16L10-2Z HPCD	2	16	16	8	100	10	70
DQD16L20-2Z HPCD	2	16	16	8	100	20	60



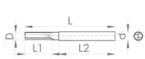
Code	Dimensions							
	Z	D	d	L	L1	L2		
DJD08L10-1Z HPCD	1	8	8	80	10	60		
DJD08L20-1Z HPCD	1	8	8	80	20	50		
DJD08L25-1Z HPCD	1	8	8	80	25	45		
DJD10L10-1Z HPCD	1	10	10	100	10	70		
DJD10L20-1Z HPCD	1	10	10	100	20	60		
DJD10L25-1Z HPCD	1	10	10	100	25	55		
DJD12L10-1Z HPCD	1	12	12	100	10	70		
DJD12L20-1Z HPCD	1	12	12	100	20	60		
DJD12L25-1Z HPCD	1	12	12	100	25	55		



Code	Dimensions							
	Z	D	d	L	L1	L2		
DJD08L10-2Z HPCD	2	8	8	80	10	50		
DJD10L10-2Z HPCD	2	10	10	80	10	50		
DJD10L20-2Z HPCD	2	10	10	80	20	50		
DJD12L10-2Z HPCD	2	12	12	100	10	70		
DJD12L20-2Z HPCD	2	12	12	100	20	70		
DJD16L10-2Z HPCD	2	16	16	100	10	60		
DJD16L20-2Z HPCD	2	16	16	100	20	70		
DJD20L10-2Z HPCD	2	20	20	100	10	70		
DJD20L20-2Z HPCD	2	20	20	100	20	70		

3D Picture & Technical Drawing

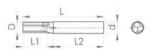




Code				Dimensions			
	Z	D	d	L	L1	L2	θ
DKD06L10-2Z HPCD	2	6	6	60	10	45	2°
DKD06L20-2Z HPCD	2	6	6	60	20	40	2°
DKD08L10-2Z HPCD	2	8	8	80	10	60	3°
DKD08L20-2Z HPCD	2	8	8	80	20	50	3°
DKD10L10-2Z HPCD	2	10	10	80	10	50	4°
DKD10L20-2Z HPCD	2	10	10	80	20	50	4°
DKD12L10-2Z HPCD	2	12	12	85	10	60	6°
DKD12L20-2Z HPCD	2	12	12	100	20	70	6°
DKD16L10-2Z HPCD	2	16	16	85	10	60	6°
DKD16L20-2Z HPCD	2	16	16	100	20	70	6°
DKD20L10-2Z HPCD	2	20	20	100	10	70	6°
DKD20L20-2Z HPCD	2	20	20	100	20	70	6°

3D Picture & Technical Drawing

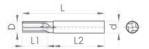




Code		Dimensions							
	Z	D	d	L	L1	L2	θ		
DKD08L10-3Z HPCD	3	8	8	80	10	50	2°		
DKD08L20-3Z HPCD	3	8	8	80	20	50	2°		
DKD10L10-3Z HPCD	3	10	10	80	10	50	3°		
DKD10L20-3Z HPCD	3	10	10	80	20	50	3°		
DKD12L10-3Z HPCD	3	12	12	100	10	70	4°		
DKD12L20-3Z HPCD	3	12	12	100	20	70	4°		
DKD16L10-3Z HPCD	3	16	16	100	10	70	5°		
DKD16L20-3Z HPCD	3	16	16	100	20	70	5°		
DKD20L10-3Z HPCD	3	20	20	100	10	70	6°		
DKD20L20-3Z HPCD	3	20	20	100	10	70	6°		

3D Picture & Technical Drawing





Code					Dimensions			
		Z	D	d	L	L1	L2	θ
DKD12L10-4Z	HPCD	4	12	12	100	10	70	4°
DKD12L20-4Z	HPCD	4	12	12	100	20	70	4°
DKD12L25-4Z	HPCD	4	16	16	100	25	70	4°
DKD16L10-4Z	HPCD	4	16	16	100	10	60	5°
DKD16L20-4Z	HPCD	4	16	16	100	20	70	5°
DKD16L25-4Z	HPCD	4	16	16	100	25	70	5°
DKD20L10-4Z	HPCD	4	20	20	100	10	70	6°
DKD20L20-4Z	HPCD	4	20	20	100	20	70	6°
DKD20L25-47	HPCD	4	20	20	100	25	70	6°



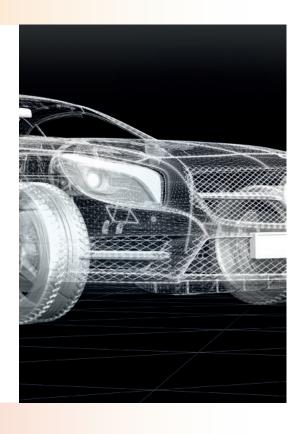
Code				Dimensions			
	Z	D	d	R	L	L1	L2
DQD4L10-1Z HPCD	1	4	6	2	60	10	45
DQD6L10-1Z HPCD	1	6	6	3	60	10	45
DQD8L10-1Z HPCD	2	8	8	4	80	10	60
DQD8L20-2Z HPCD	2	8	8	4	80	20	50
DQD10L10-2Z HPCD	2	10	10	5	80	10	60
DQD10L20-2Z HPCD	2	10	10	5	80	20	50
DQD12L10-2Z HPCD	2	12	12	6	100	10	70
DQD12L20-2Z HPCD	2	12	12	6	100	20	60
DQD16L10-2Z HPCD	2	16	16	8	100	10	70
DQD16L20-2Z HPCD	2	16	16	8	100	20	60

SPECIAL TOOLS



AUTOMOTIVE

PAGE 59-86



COOKWARE

PAGE 87-92



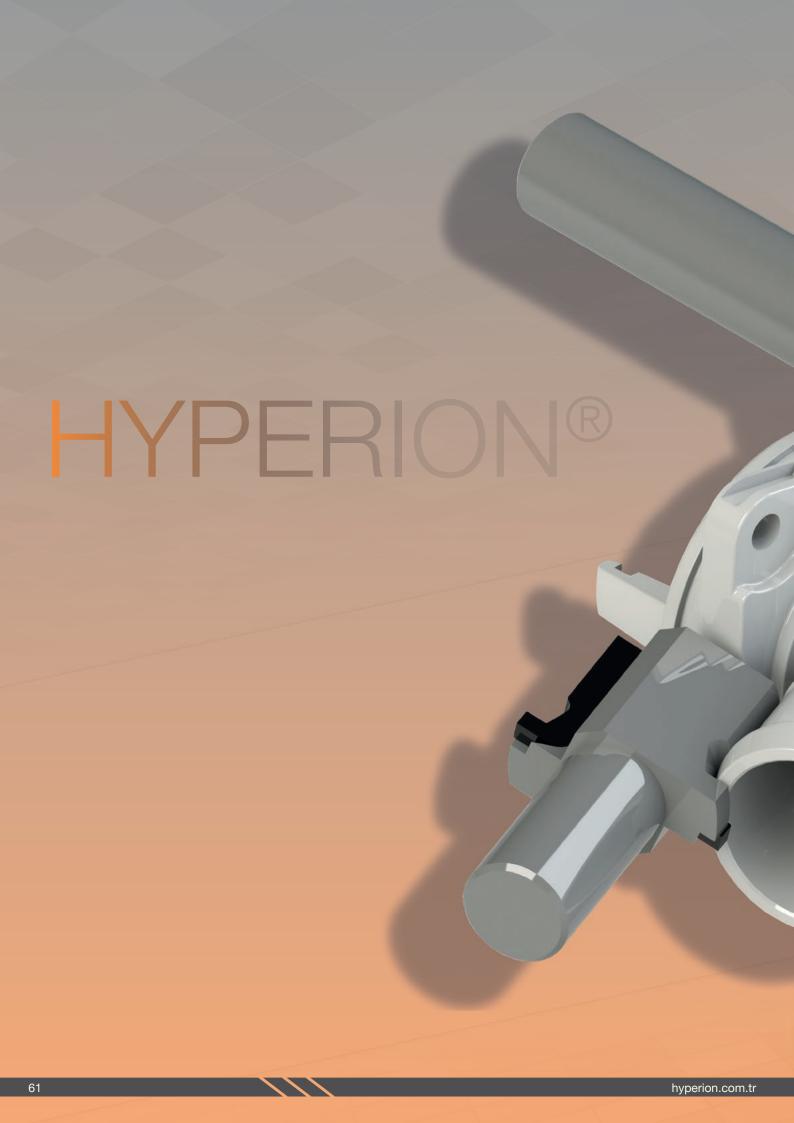


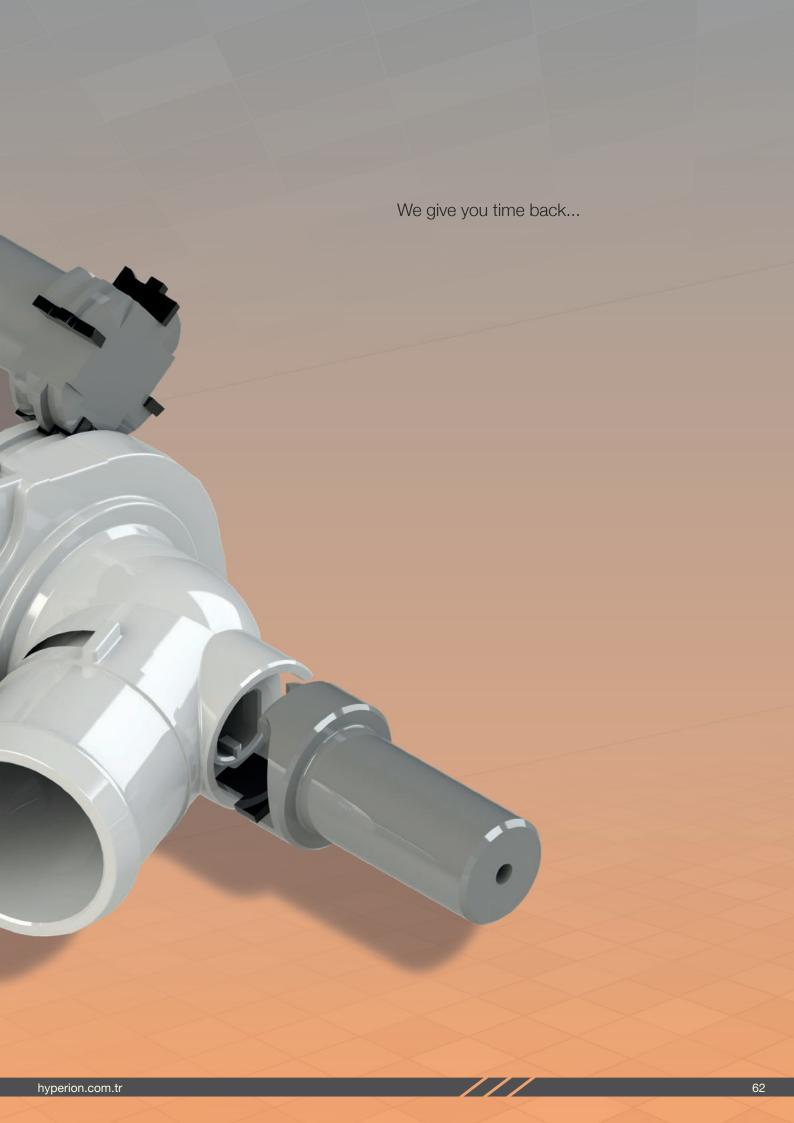
AUJT0/M



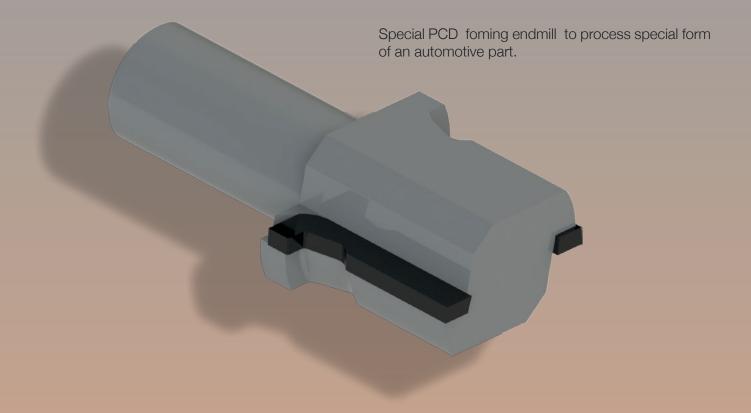
Parts of today's modern manufacturing technology, particularly in the automotive industry, are becoming ever more complex. There is a change in the material properties and workpiece designs used with the expected increase in properties from the workpieces. As these changes make processing difficult, the need for PCD / CBN special tools is further increased. Rational and impressive solutions we apply in the automotive sector make it easy to process complex parts and reduce costs. Some of the tools in this catalog, include examples from solutions we have implemented in the automotive sector.







PCD FORMING ENDMILL



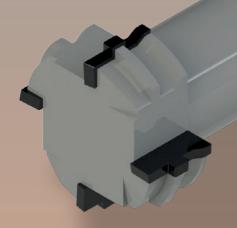
INTERCHANGEABLE GROOVE MILLING





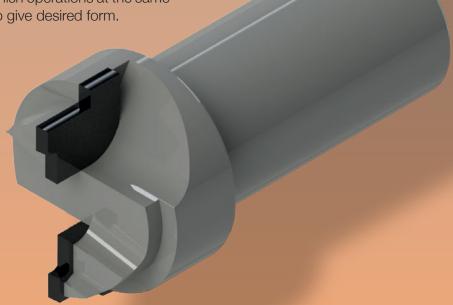
FOUR EDGE SPECIAL FORM ENDMILL

Four-edge PCD endmill specially designed according to the form of the part to be machined.



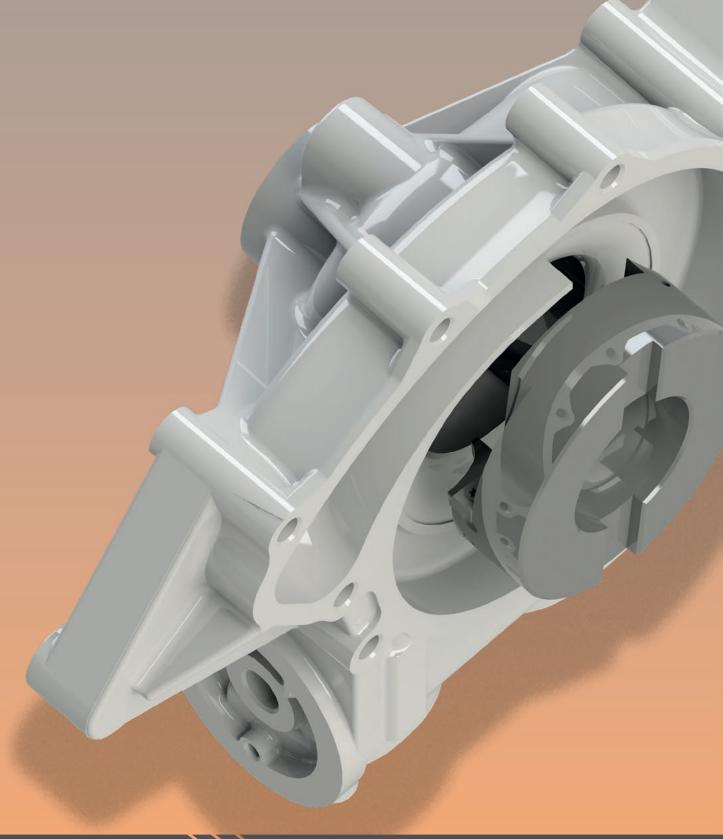
FORM MACHINING PCD TOOL

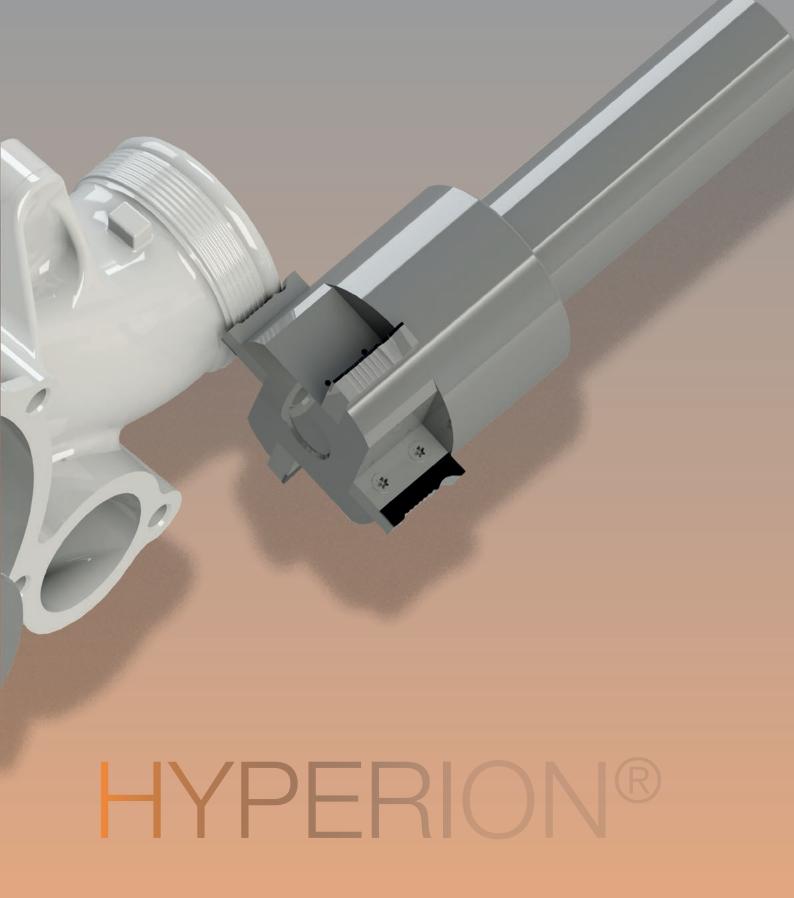
The machining time is reduced by making both the rough and the finish operations at the same time with the tool to give desired form.



PCD SURFACE FORMING/FINISHING OPERATIONS

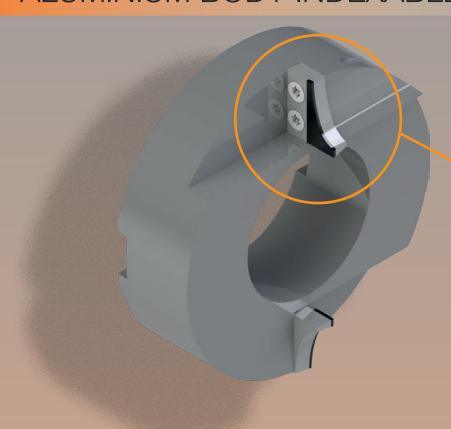
Precise machining tool designs suitable for the desired surface form are made in special dimensions for surface machining operations. As with this tool, the aluminum material holder is used to machining large diameter surface operation and that lightweight design and allow for high speeds/advances in finish treatment.





Complex forms are easily manufactured and the desired surface form is revealed with Hyperion Cutting Tools precisely. With optimum tool designs and cutting edge application, excellent surface qualities are achieved.

ALUMINIUM BODY INDEXABLE PCD TOOL

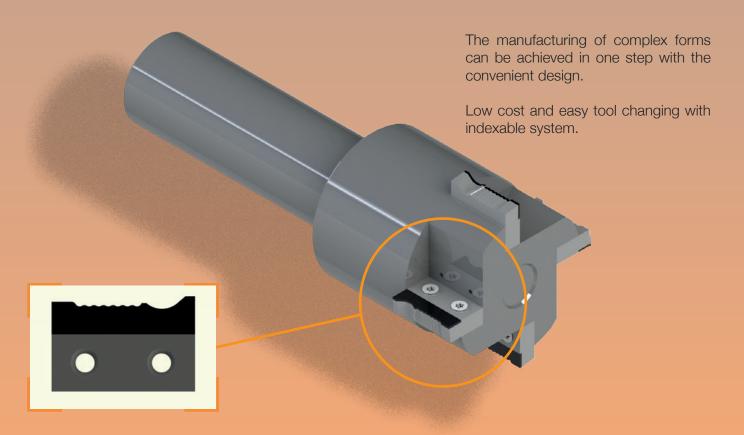


Convenient insert design to obtain the surface form and quality expected from the workpiece.

Lightweight aluminum holder for highcutting speed and feed rate applications.



INDEXABLE SURFACE THREAD FORMING TOOL

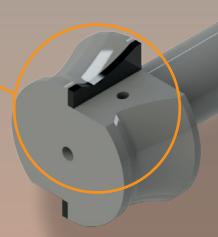


NON-UNIFORM SURFACE ENDMILL



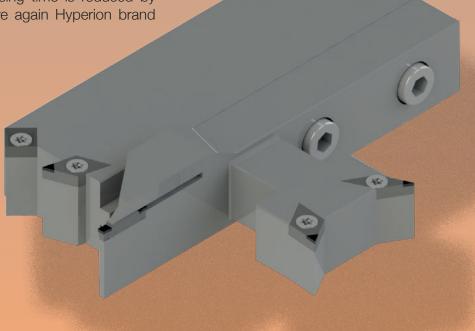
Designed for non-uniform surface treatment, manufactured without any error at the specified tolerances.

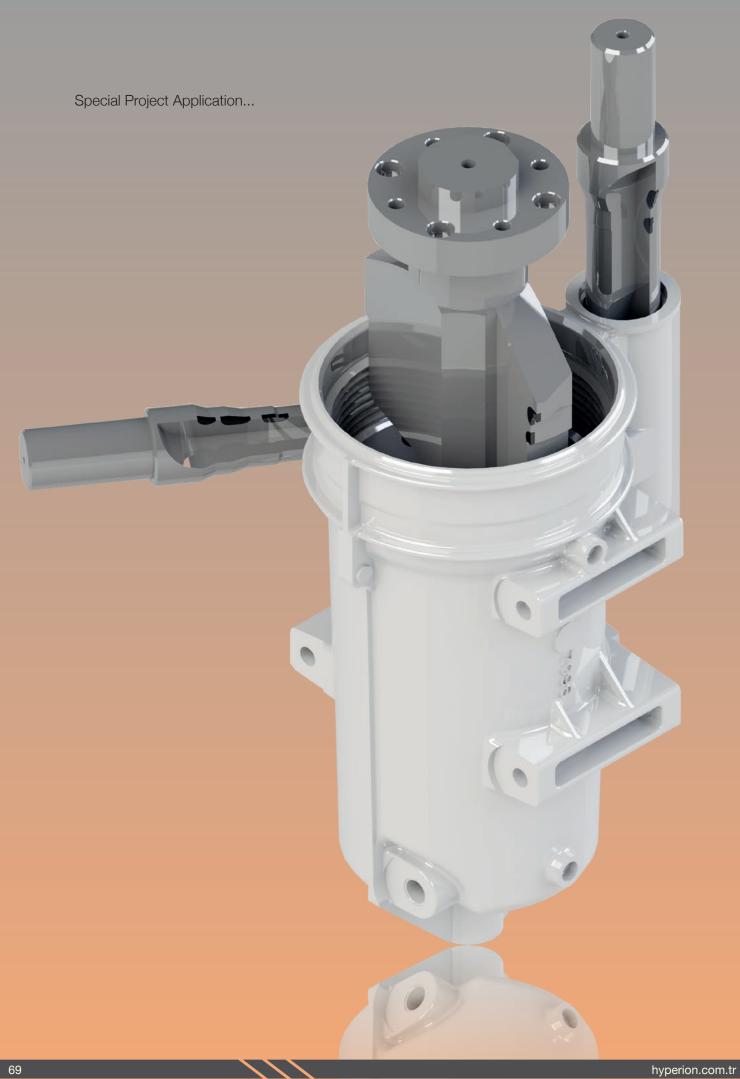
In operations where cutting fluid can be used, cooling and chip removal can be achieved with in-tool channels.

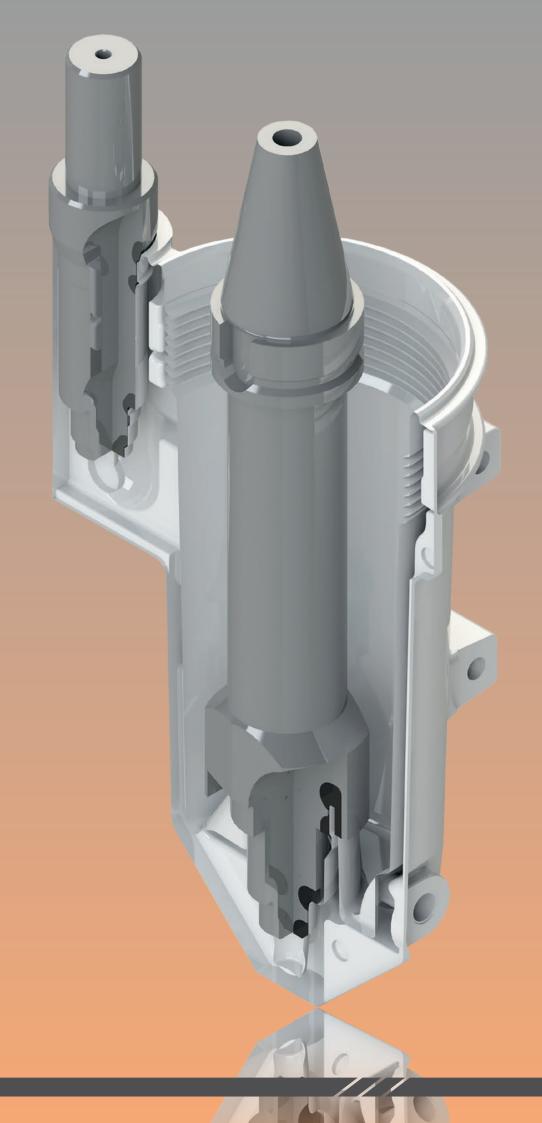


COMBINED TURNING SOLUTIONS

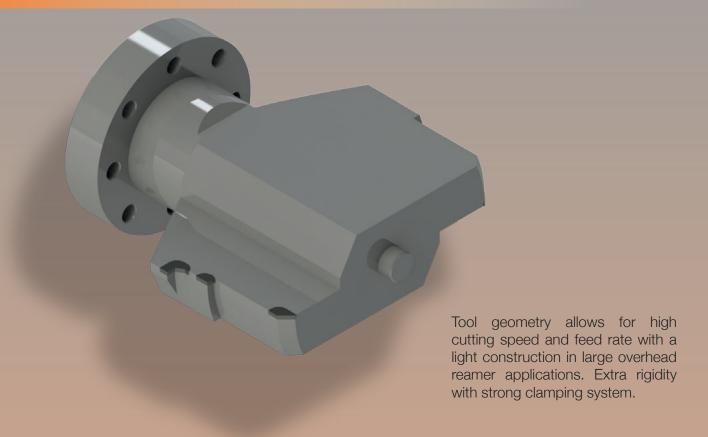
Specially designed five mouthed tool holder to reduce the duration of the operation. Processing time is reduced by 40%. All inserts on tool holder are again Hyperion brand PCD inserts.



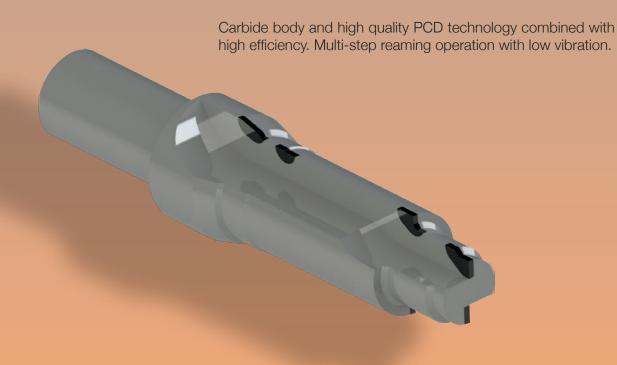




LARGE DIAMETER REAMER

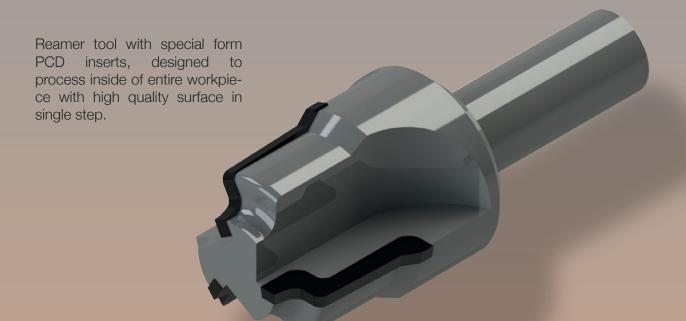


STEP PCD REAMER CARBIDE BODY

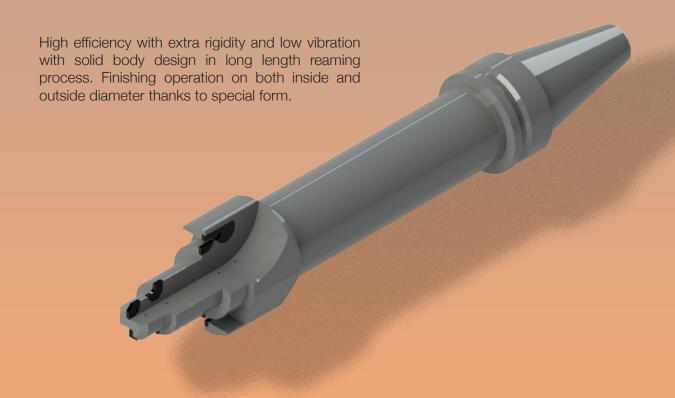




STEP FORMING PCD SOLID REAMER



INTERNAL EXTERNAL REAMING SOLID BODY





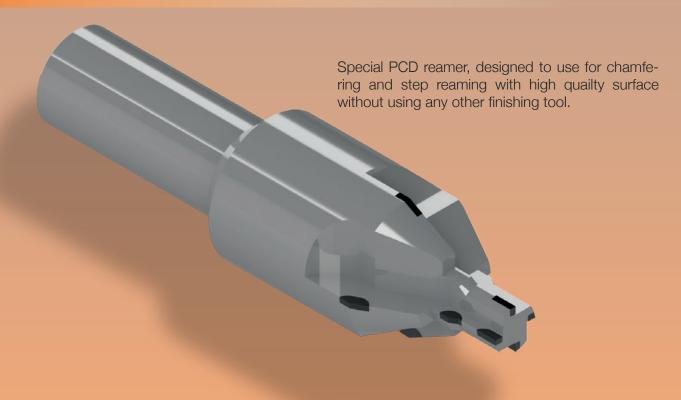


01

CHAMFER REAMER FINISH TOOL

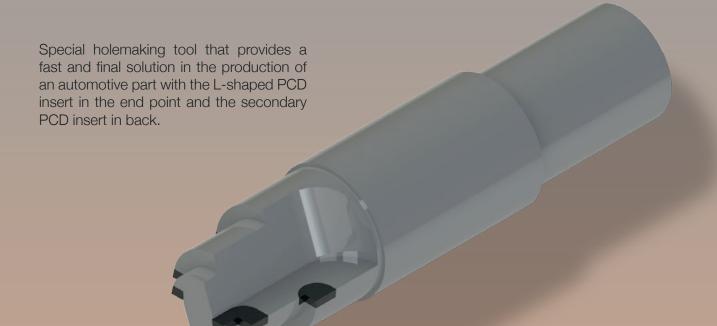
The processing quality is increased with PCD tool. Suitable for chamfering operations where high surface quality expected. Produced for non-standard gauges.

STEP REAMER WITH CHAMFERING TOOL

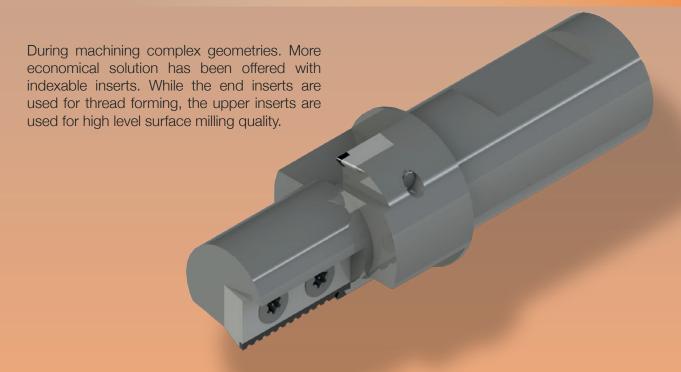




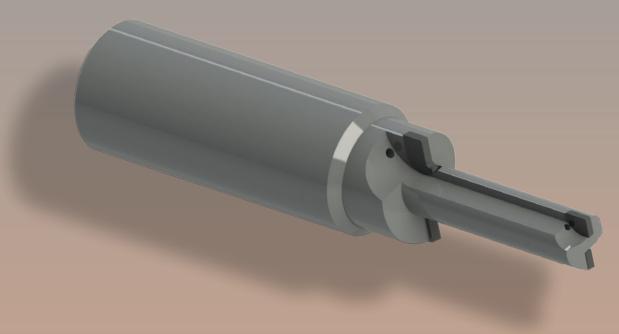
90° STEP MILLING/REAMING PCD



INDEXABLE INSERT SPECIAL PCD TOOL

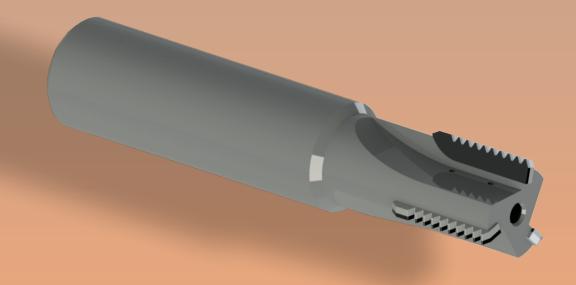


PCD STEP REAMER



Special two-step reaming tool designed to shorten the processing time.

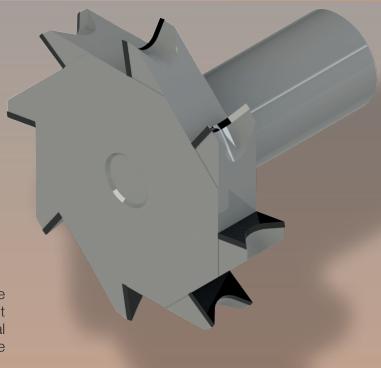
THREE EDGED PCD THREADING TOOL



Thanks to the design for the threading operation, which is made in accordance with the number of teeth required, the interpolation milling is completed in one round. In this way, the time of actual processing is reduced.

04

T-GROOVE FORMING TOOL



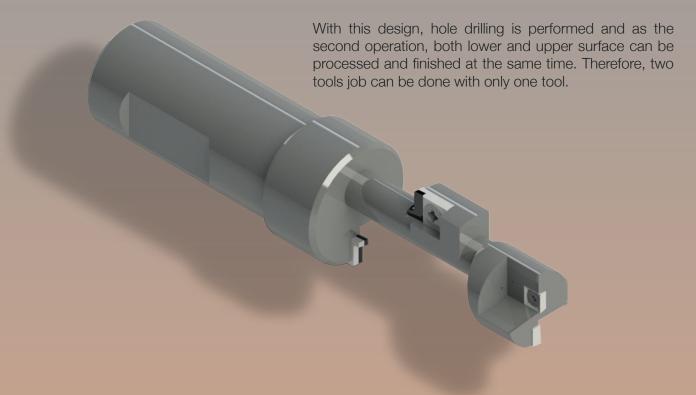
The specially developed cutting edge geometry as well as the arrangement of the cutting edges provide optimal accuracy and short cycle times while maintaining consistent quality.

PCD/CBN MILLING CUTTER

Eight edge PCD face milling tool specially designed to increase surface quality.



INDEXABLE DRILL & SURFACE FINISH TOOL



GROOVE FORMING PCD/CBN SAW BLADE



PCD/CBN welded circular saws can operate at much higher cutting speeds and feed rates in channel opening processes. In addition, due to the nature of the PCD/CBN material, tool life increases and manufacturing costs are reduced.



PCD DRILL AND CHAMFER TOOL

PCD tool designed for performing drilling, chamfering and reaming operations at the same time, and machining time is reduced, resulting in high surface quality. In addition, with special geometry and angles, it is possible to remove chips at high speeds and feedrates.

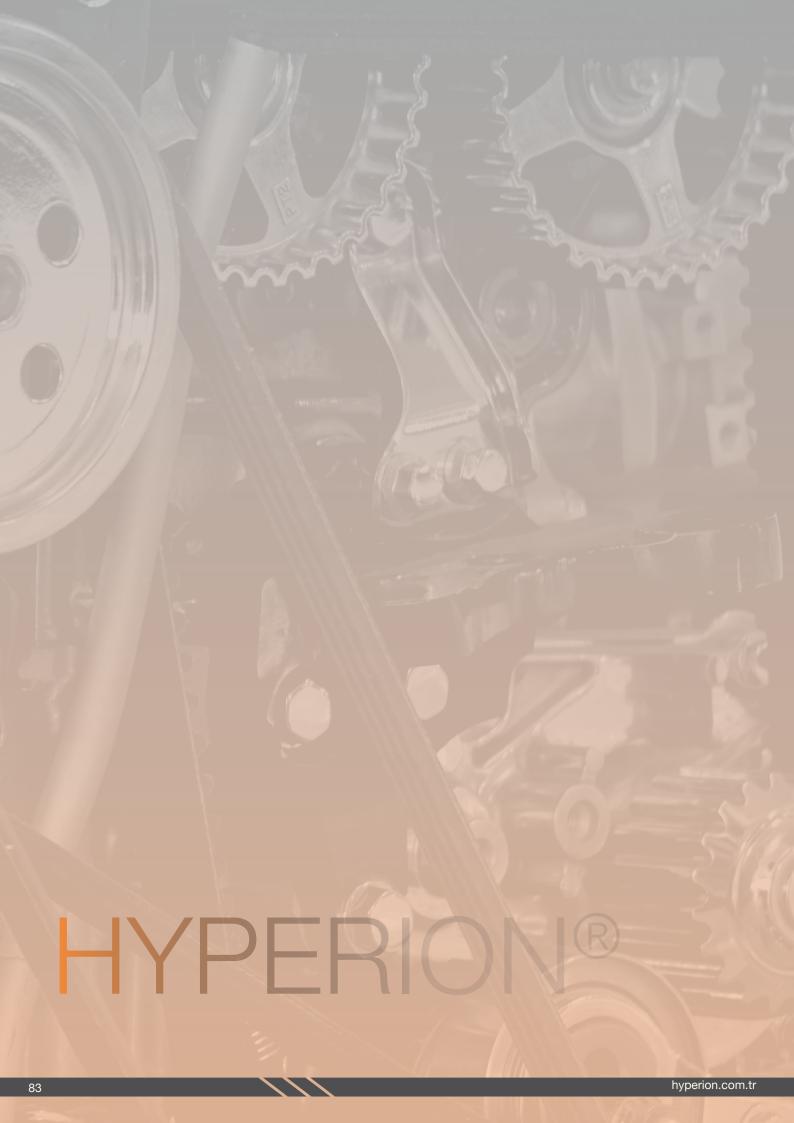
BODY & INSERT FOR SPECIAL MACHINERY

Optimum cutting values are obtained with correct body designs and appropriate tool cutting edges in machines, designed for special operations. We combine the most effective solutions with the most suitable design and deliver it to the manufacturer in the special tools required by the special machines.





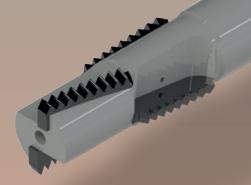




01

HELICAL THREAD MILLING TOOL

Parts can be easily processed without vibration on extra long length thread milling application with helical angle and multiple edge tool design.



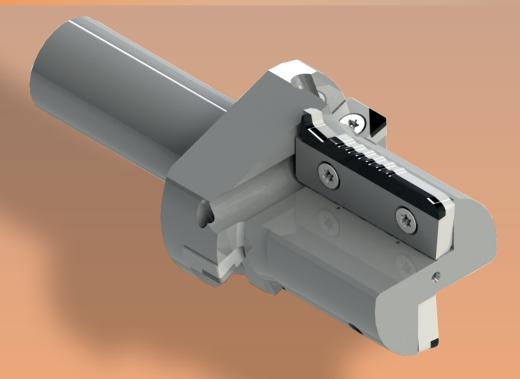
HELICAL PCD/CBN ENDMILL

High performance and high surface quality by minimizing the cutting forces occurring in the processing of materials with helical designed tools.

SPECIAL FORM VALVE TOOL



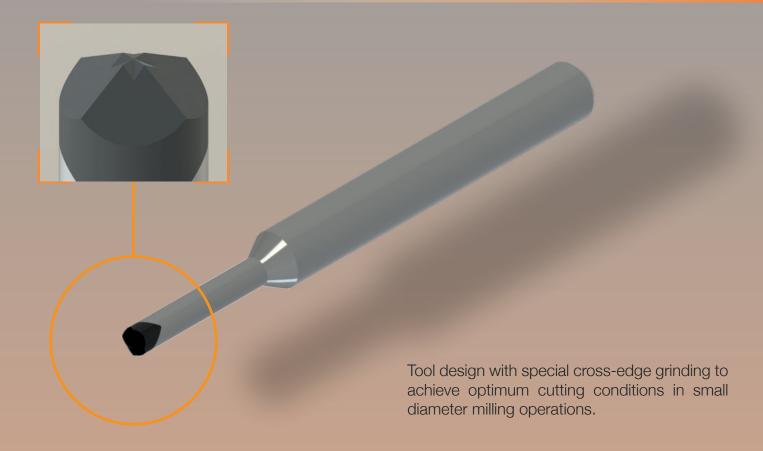
INDEXABLE SPECIAL VALVE FORM TOOL



Costs are reduced with indexable tool design.

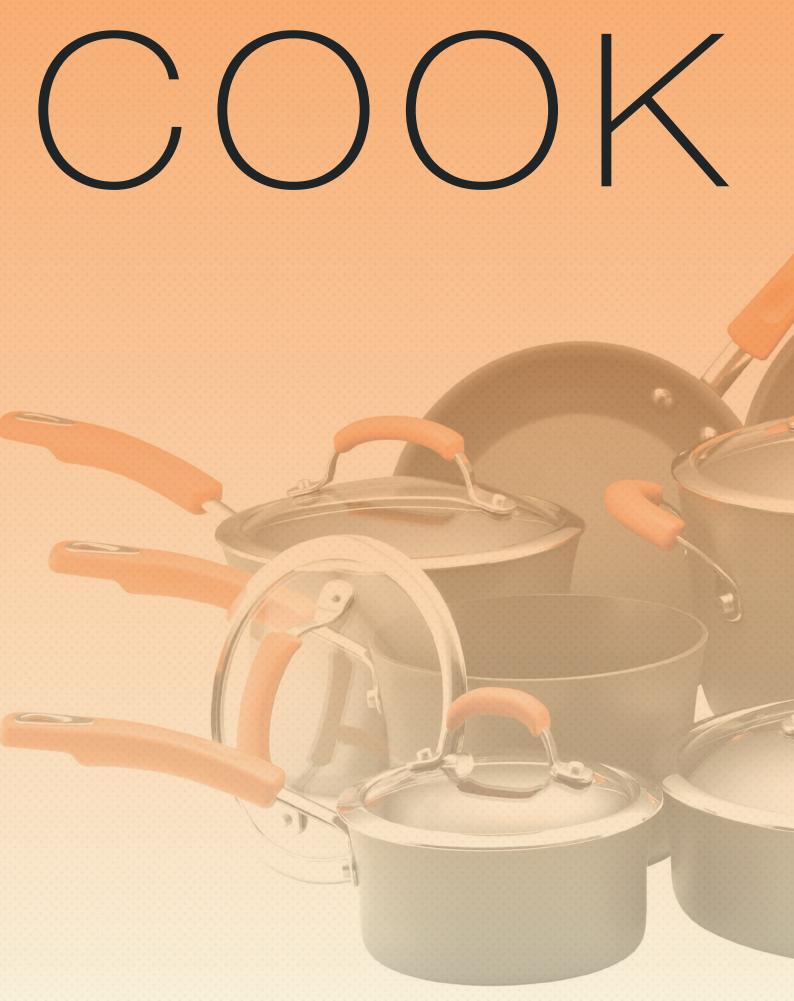


STONE CARVING CBN TOOL



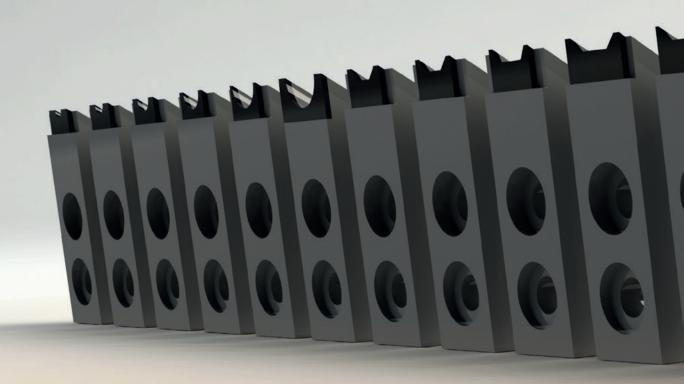
INDEXABLE SPECIAL TOOL



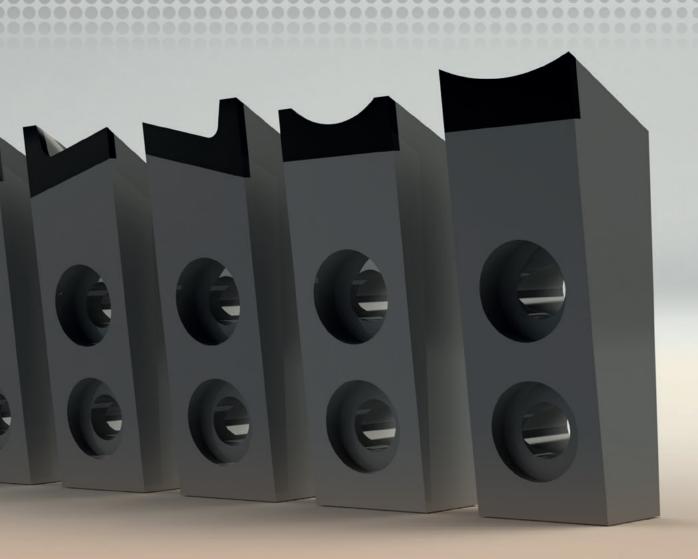


Combination of several operating steps or special holes where no chips are allowed to enter inside the work-piece: For any machining task Hyperion has an individual solution. Complex tools from Hyperion combine multiple machining steps into one tooling solution and thus save tools and tool change time.



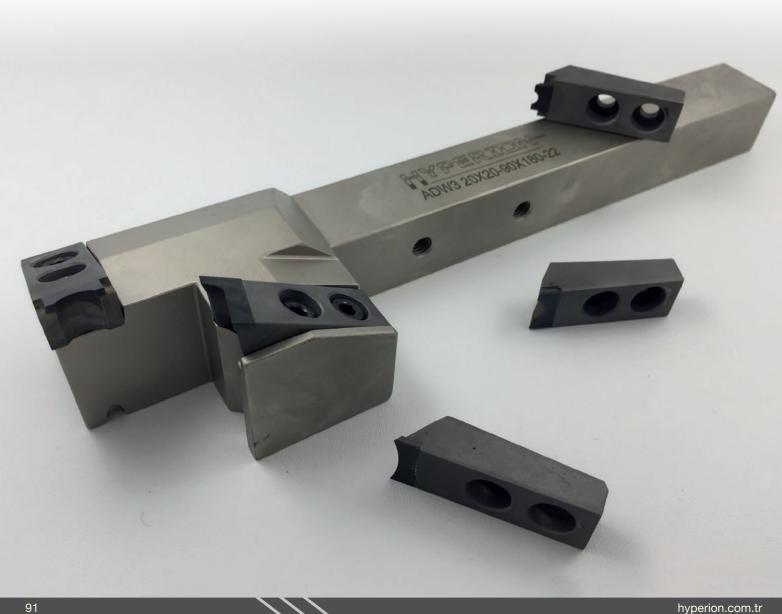


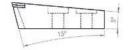
You can use Hyperion cookware tool inserts safely and for a long time in all horizontal or vertical cookware processing operations. With Hyperion PCD special tools, you can shorten both operation times and improve surface quality. Depending on your request for any form or measurement, tools can be produced in very low quantities to ensure reducing your operating expenses.

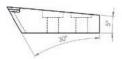


Hyperion High Performance Precision tools have been used extensively for over a decade in over 50 production facilities from Asia to Europe.

SPECIAL COOKWARE TOOLS







Example: ADW2 R7.00-1210 HPCD - 15°

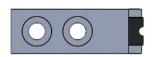
Higher Tool Life

mple: ADW3 R7.00-1210 HPCD - 30°

Easy Chip Removing First Choice For Thin Workpiece Edges

SPHERICAL EDGE MACHINING





ADW2 R1.20-1210 HPCD - 15°

ADW3 R1.20-1210 HPCD - 30°

3D Picture



ADW2 R2.50-1210 HPCD - 15°

ADW3 R2.50-1210 HPCD - 30°

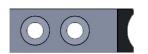
3D Picture

THICK PARTS ANGULAR MACHINING



ADL2 A14-1210 HPCD - 15° ADL3 A14-1210 HPCD - 30°

ELLIPTICAL MACHINING



ADW2 R7.00-1210 HPCD - 15° ADW3 R7.00-1210 HPCD - 30°

PLAIN CHAMFERED MACHINING

3D Picture



ADW2 L2.60-1210 HPCD - 15° ADW3 L2.60-1210 HPCD - 30°



ADW2 L5.00-1210 HPCD - 15° ADW3 L5.00-1210 HPCD - 30°

3D Picture



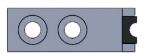
ADW2 R1.50-1210 HPCD - 15° ADW3 R1.50-1210 HPCD - 30°

3D Picture



ADW2 R3.20-1210 HPCD - 15° ADW3 R3.20-1210 HPCD - 30°

3D Picture



ADW2 R2.00-1210 HPCD - 15° ADW3 R2.00-1210 HPCD - 30°

3D Picture



ADW2 R4.00-1210 HPCD - 15° ADW3 R4.00-1210 HPCD - 30°



ADR2 A14-1210 HPCD - 15° ADR3 A14-1210 HPCD - 30°



ADW2 R15.00-1210 HPCD - 15° ADW3 R15.00-1210 HPCD - 30°

ADW2 L3.20-1210 HPCD - 15° ADW3 L3.20-1210 HPCD - 30°



ADW2 L6.00-1210 HPCD - 15° ADW3 L6.00-1210 HPCD - 30°

3D Picture



ADW2 L4.00-1210 HPCD - 15° ADW3 L4.00-1210 HPCD - 30°

HIGH PERFORMANCE PRECISION TOOLS

HyperionHighPerformancePrecisionToolsHyperionİşlemeTeknolojileriSan.veTic.Ltd.Şti.

Kosuyolu Mh. Ali Nazima Sk. No: 26 34718 Kadikoy / Istanbul

Tel: +90.216.909.72.64 +90.535.216.99.57 +90.535.622.09.69

Internet: www.hyperion.com.tr E-mail: sales@hyperion.com.tr