



Router bits for composite materials

**our tools your best choice**



### **Typ X – frezy z geometrią diamentu**

Frezy do kompozytów typu **X** - dostępne w 4 różnych geometriach krawędzi tnącej i 4 różne czoła. Produkowane z najlepszego bardzo drobnego i bardzo twardego sortu węglika, który cechuje wyjątkowa żywotność.

**Zastosowanie:** Uniwersalne frezy prawie do wszystkich materiałów kompozytowych, oraz jako alternatywa dla Honeycomb.

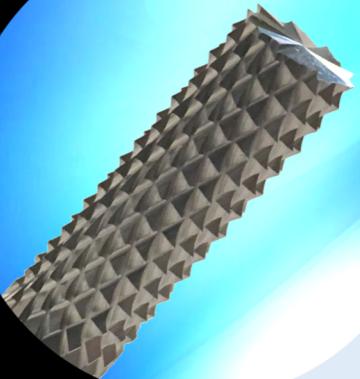
**Zakres średnic:** od 3 do 16 mm. **Dostępne:**, bez powłoki, z powłoką **XT**,

### **Typ X – router bits with multi diamond cut geometry**

Composite router bit type **X** - available in 4 different variations of cutting edge and 4 different type of top. Produced from ultra fine and very hard carbide sorte, which give the long-life of product.

**Application:** Universal router bit for all composite materials, alternativ for Honeycomb, for slot milling and side milling, slotting,

**Dimension:** from 3 to 16 mm **Aviable:**, uncoating, **XT** coating



### **Typ G ~ frezy wykańczające**

Frezy do kompozytów typu **G** - dostępne w 4 różnych geometriach krawędzi tnącej i 4 różne czoła. Produkowane z najlepszego bardzo drobnego i bardzo twardego sortu węglika, który cechuje wyjątkowa żywotność.

**Zastosowanie:** Uniwersalne frezy prawie do wszystkich materiałów kompozytowych, oraz jako alternatywa dla Honeycomb.

**Zakres średnic:** od 3 do 16 mm. **Dostępne:**, bez powłoki, z powłoką **XT**,

### **Typ G – finish router bits**

Composite router bit type **G** - available in 4 different variations of cutting edge and 2 different type of top. Produced from ultra fine and very hard carbide sorte, which give the long-life of product.

**Application:** Router bit for CFRP and GRFP composite materials, for slot milling and side milling,

**Dimension** from 3 to 16 mm. **Aviable:** uncoating, **XT** coating



### **Typ V – wydajne frezy wielostrzowe**

Frezy do kompozytów typu **V** - dostępne w 4 różnych geometriach krawędzi tnącej i 4 różne czoła. Produkowane z najlepszego bardzo drobnego i bardzo twardego sortu węglika, który cechuje wyjątkowa żywotność.

**Zastosowanie:** Uniwersalne frezy prawie do wszystkich materiałów kompozytowych, oraz jako alternatywa dla Honeycomb.

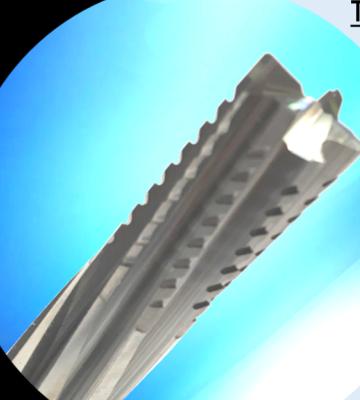
**Zakres średnic:** od 4 do 16 mm. **Dostępne:**, bez powłoki, z powłoką **XT**,

### **Typ V – the router bits of high material removal**

Composite router bit type **V** - available in 4 different variations of cutting edge and 2 different type of top. Produced from ultra fine and very hard carbide sorte, which give the long-life of product.

**Application:** Router for CFRP and GRFP composite materials, for slot milling and side milling,

**Dimension** from 4 to 16 mm **Aviable:**, uncoating, **XT** coating



## **Typ T – frezy typ Twister**

Frezy do kompozytów typu **T** - dostępne w 4 różnych geometriach krawędzi tnącej i 4 różne czola. Produkowane z najlepszego bardzo drobnego i bardzo twardego sortu węglika, który cechuje wyjątkowa żywotność.

**Zastosowanie:** Uniwersalne frezy prawie do wszystkich materiałów kompozytowych,

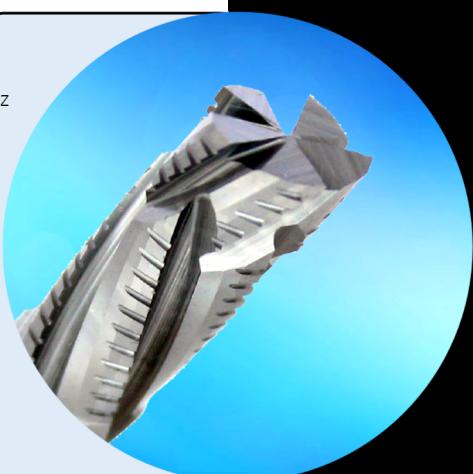
**Zakres średnic:** od 6 do 16 mm. **Dostępne:**, bez powłoki, z powłoką **XT**,

## **Typ T – double helix Twister router bits**

Composite router bit type **T** designed for clean cutting sandwich materials - available in 2 different variations of cutting edge. Produced from ultra fine and very hard carbide sorte, which give the long-life of product.

**Application:** Router for CFRP and GRFP sandwich composite materials, for slot milling and side milling,

**Dimension** from 6 to 16 mm **Available**, uncoating, **XT** coating



## **Typ KV – frezy do AFRP - KEVLAR**

Frezy do kompozytów typu **KV** - dostępne w 2 różnych geometriach krawędzi tnącej. Produkowane z najlepszego bardzo drobnego i bardzo twardego sortu węglika, który cechuje wyjątkowa żywotność.

**Zastosowanie:** specjalne frezy do materiałów Aramidowych - **KEVLAR**.

**Zakres średnic:** od 4 do 16 mm. **Dostępne:**, bez powłoki, z powłoką **XT**,

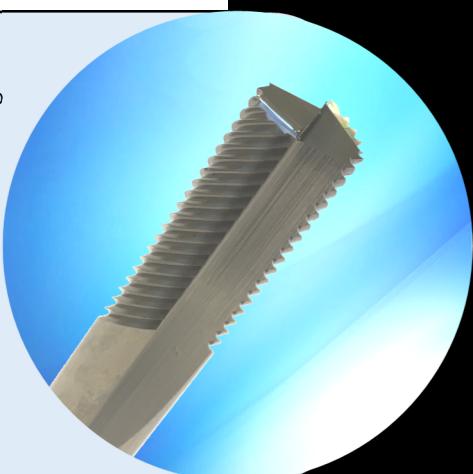
## **Typ KV – AFRP Kevlar router bits**

Composite router bit type **KV** - available in 2 different variations of cutting edge and 2 different type of top.

Produced from ultra fine and very hard carbide sorte, which give the long-life of product.

**Application:** Universal router bit for all composite materials, alternativ for Honeycomb, for slot milling and side milling, Slotting,

**Dimension:** from 4 to 16 mm **Available**, uncoating, **XT** coating



## **Typ FT – frezy do Tekstolitu**

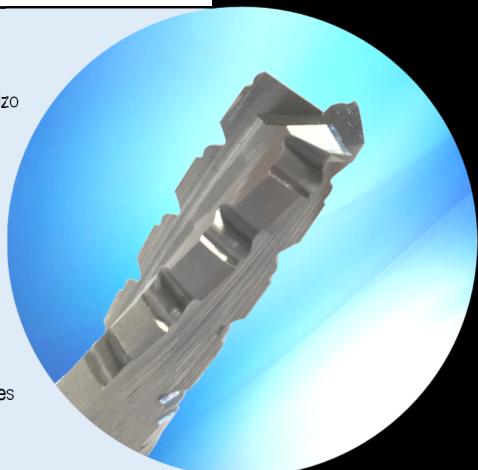
Frezy do tekstolitu typu **FT** - dostępne w 2 różnych geometriach krawędzi tnącej. Produkowane z najlepszego, bardzo drobnego i bardzo twardego sortu węglika, który cechuje wyjątkowa żywotność.

**Zastosowanie:** Frezy przeznaczone głównie do wydajnej obróbki tekstolitu, ebonitu, dzięki specjalnym profilom ostrz lekko obrabiają ten twardy materiał, **Zakres średnic:** od 10 do 16 mm. **Dostępne:**, bez powłoki, z powłoką **XT**,

## **Typ FT – phenolic router bits**

Router bit for Textolite typ **FT** - available in 2 different geometries cutting edge. Manufactured from the best, very fine and very hard sorts of carbide, which is characterized by exceptionally long-life.

**Application:** Mills designed primarily for the efficient machining Phenolic - Textolithe, hard rubber, with special profiles blades lightly machine the hard material, **Dimension:** from 10 to 16 mm **Available**: uncoating, **XT** coating,



### **Typ HC – frezy do Honeycomb**

Frezy do kompozytów typu **HC** - dostępne w 2 różnych geometriach krawędzi tnącej. Produkowane z najlepszego bardzo drobnego i bardzo twardego sortu węglika, który cechuje wyjątkowa żywotność.

**Zastosowanie:** Specjalne frezy do wszystkich materiałów kompozytowych typu Honeycomb.

**Zakres średnic:** od 6 do 25 mm. **Dostępne:**, bez powłoki, z powłoką **XT**

### **Typ HC – Honeycomb router bits**

Composite router bit type **HC** - available in 2 different variations of cutting edge and 2 different type of top. Produced from ultra fine and very hard carbide sorte, which give the long-life of product,

**Application:** Special router bit for all composite materials type **Honeycomb**, for slot milling, side milling and slotting,

**Dimension** from 6 to 25 mm **Available**, uncoating, with **XT** coating.

### **Typ PCD – frezy Diamantowe**

Frezy do kompozytów typu **PCD** - frezy z ostrzami PKD dostępne w 4 różnych geometriach ostrzy i 2 różne czoła. PKD lutowane na korpusach węglikowych lub Densiment takie rozwiązanie daje dużą sztywność i znacznie wydajność obróbki.

**Zastosowanie:** Przeznaczone do obróbki CFRP, GRFP oraz grafitu.

**Zakres średnic:** od 5 do 20 mm. **Dostępne:**, wersje lutowane PKD 1, 2, 3 i 4 ostrzowe.

### **Typ PCD – Diamond router bits**

Mills for composite type **PCD** - milling cutters with cutting PKD available in 4 different blade geometries and 2 different end faces. PKD brazed of carbide bodies this solution provides high stiffness and machining performance significantly.

**Application:** Designed for machining CFRP, GRFP and Graphite.

**Diameter range:** from 5 to 20 mm. **Available:** PKD brazed 1, 2, 3 and 4 flute.

### **Typ DC – wiertła do kompozytów**

Wiertła do wiercenia w materiałach kompozytowych typ **DC** - produkujemy w różnych wariantach i geometrii w zależności od rodzaju materiału do wiercenia. Produkowane z bardzo drobnego i twardego sortu węglika, który cechuje wyjątkowa żywotność.

**Zastosowanie:** wiercenie we wszystkich materiałach kompozytowych.

**Zakres średnic:** od 2 do 16 mm. **Dostępne:**, bez powłoki, powłoka **XT** oraz **DIA-SPEED**.

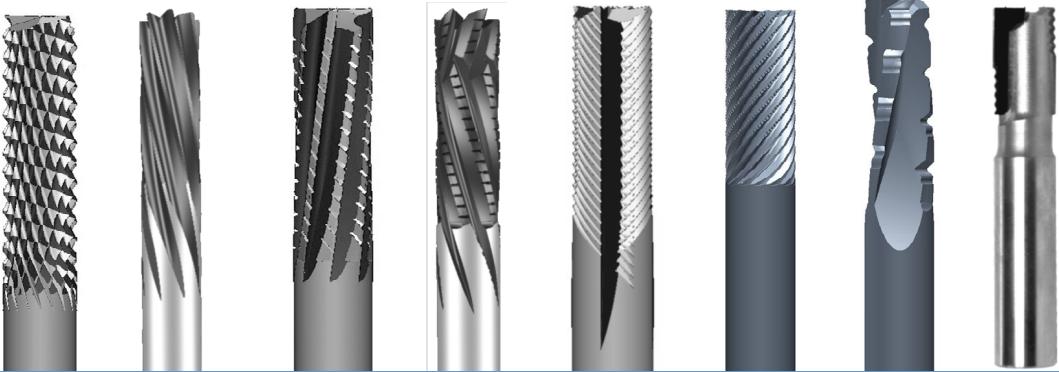
### **Typ DC – composite drill bits**

Drill bit for drilling in composite materials of the type **DC** - are produced in different variants and geometry depending on the type of the material for drilling. Produced from ultra fine and very hard carbide sorte, which give the long-life of product.

**Application:** Drilling in all composite materials.

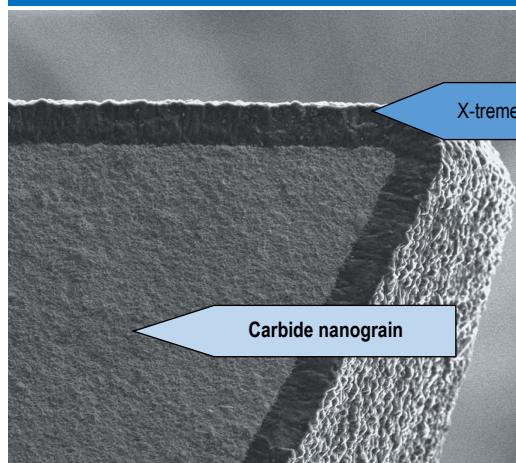
**Diameter range** from 2 to 16 mm. **Available** : without coating, the coating **XT**, and **DIA-SPEED**.

**Durchmesserbereich** von 2 bis 16 mm. **Verfügbar**: ohne Beschichtung, mit Beschichtung **DLC-h**, und **DIA-SPEED**.



Typ	X	G	V	T	KV	HC	FT	PCD
<b>Material</b>	<b>Vc prędkość obwodowa m/min - Cutting Speed Vc m/min</b>							
Fiberglass (GFRP)	200 -300	130-250	130-250	150-350	-	-	-	300-500
Carbon fibre (CRFP)	200-300	130-230	130-250	150-350	-	-	-	400-800
Kevlar - Aramid (ARFP)	-	-	-	200-400	90-150	-	-	-
Honeycomb	200-400	120-250	130-250	-	-	150-300	-	-
Composite Matrix	200-300	100-200	130-250	150-300	-	-	150-400	300-500
Grafit	200-300	100-200	130-250	-	-	-	-	500-900

## X-treme powłoka dla narzędzi tnących / X-treme coating for cutting tools



**X-treme** to powłoka nowej generacji typu PVD Nano daje wyjątkową i powtarzalną jakość podczas obróbki oraz znacznie zwiększa żywotność. Powłoka X-treme w bardzo dużym stopniu zmniejsza tarcie i zapobiega wzrostowi temperatury. Powłoka X-treme o grubości zaledwie 2 mikronów są najlepszym rozwiązaniem dla narzędzi do obróbki materiałów kompozytowych, jak CRFP, GRFP Grafitu czy stopów aluminium. Mikro twardość X-treme powłoki wynosi około 4500 Hv.

X-treme PVD nano coating exceptional quality and durability of the coating ensures a long service life thanks to the tools become even stronger. Excellent smoothness which reduces friction and increase in temperature. X-treme h coating with a thickness of only 2 microns are the best option for tools for machining aluminum, graphite and composite materials as CRFP or GRFP. Micro hardness of X-treme coating is about 4500 Hv.



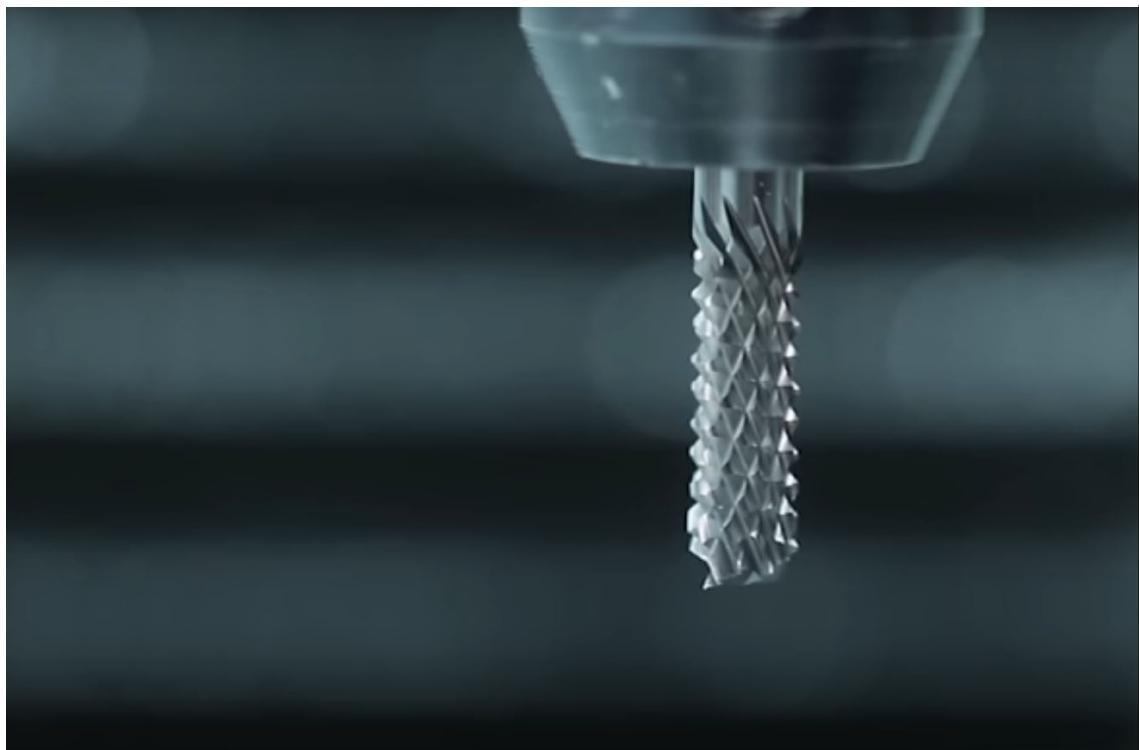


### **Typ V – wydajne frezy wielostrzowe**

Frezy do kompozytów typu **V** - dostępne w 4 różnych geometriach krawędzi tnącej i 4 różne czoła. ,

### **Typ V – the router bits of high material removal**

Composite router bit type **V** - available in 4 different variations of cutting edge and 2 different type of top.

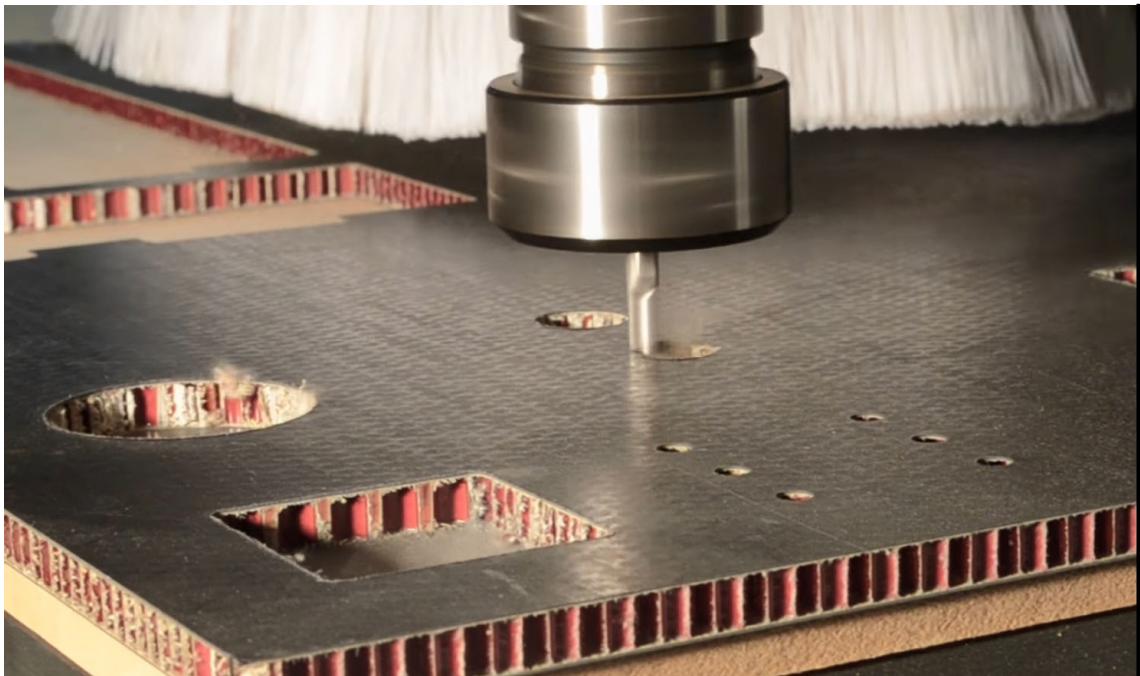


### **Typ X – frezy z geometrią diamentu**

Frezy do kompozytów typu **X** - dostępne w 4 różnych geometriach krawędzi tnącej i 4 różne czoła. .

### **Typ X – router bits with multi diamond cut geometry**

Composite router bit type **X** - available in 4 different variations of cutting edge and 4 different type of top.

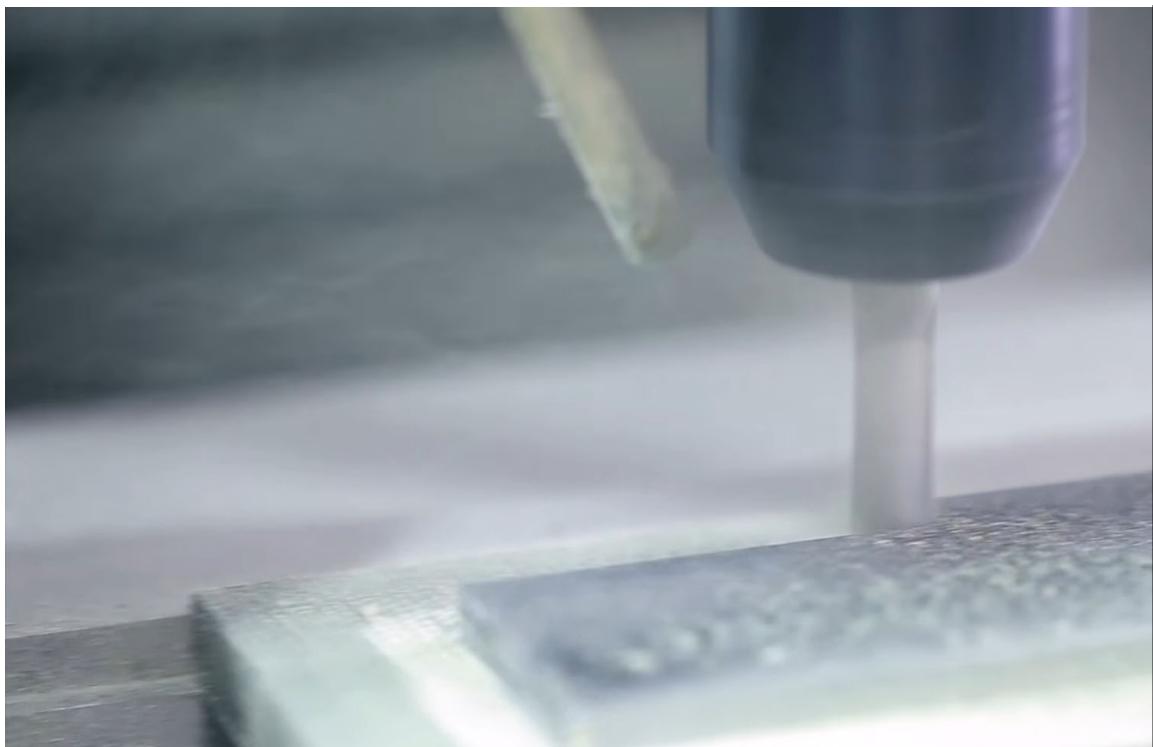


### **Typ HC – frezy do Honeycomb**

Frezy do kompozytów typu **HC** - dostępne w 2 różnych geometriach krawędzi tnącej.

### **Typ HC – Honeycomb router bits**

Composite router bit type **HC** - available in 2 different variations of cutting edge and 2 different types of top.



### **Typ T + KV – frezy typ Twister**

Frezy do kompozytów typu **T i KV** - dostępne w 4 różnych geometriach krawędzi tnącej .

### **Typ T + KV – double helix Twister router bits**

Composite router bit type **T and KV** designed for clean cutting sandwich materials - available in 2 different variations of cutting edge.

GFRP

CFRP

HC

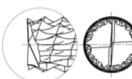
GF



Pełno węglikowe frezy do kompozytów z ostrzami pilnikowymi.

Router bits with multi diamond cut geometry

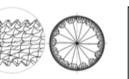
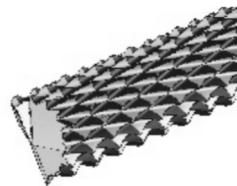
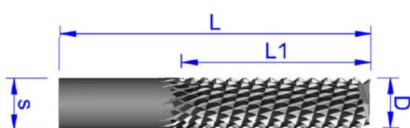
XN standard



XN - 1



XN - 2

VHM  
SUB-MICRONXT  
coating

D	L1	L	s	Art.. Nr		Art.. Nr	Reseller price
3	10	45	3	XN.030.010.045		XN.030.010.045XT	
4	12	50	4	XN.040.012.050		XN.040.012.050XT	
4	18	60	4	XN.040.018.060		XN.040.018.060XT	
5	16	50	5	XN.050.016.050		XN.050.016.050XT	
6	18	55	6	XN.060.018.055		XN.060.018.055XT	
6	25	70	6	XN.060.025.070		XN.060.025.070XT	
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12	30	90	12	XN.120.030.090		XN.120.030.090XT	
12	35	100	12	XN.120.035.100		XN.120.035.100XT	
14	35	90	14	XN.140.035.090		XN.140.035.090XT	
14	40	100	14	XN.140.040.100		XN.140.040.100XT	
16	35	90	16	XN.160.035.090		XN.160.035.090XT	
16	40	100	16	XN.160.040.100		XN.160.040.100XT	
20	40	100	20	XN.200.040.100		XN.200.040.100XT	
20	55	110	20	XN.200.055.110		XN.200.055.110XT	

Pełno węglikowe frezy do kompozytów z ostrzami pilnikowymi.

Router bits with multi diamond cut geometry

**GFRP**

**CFRP**

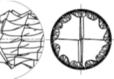
**HC**

**GF**

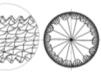
**XN standard**



**XN - 1**

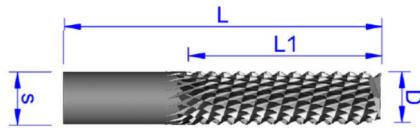
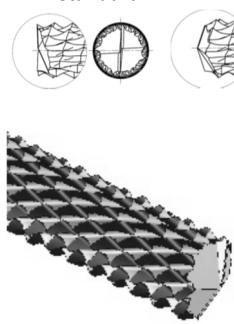


**XN - 2**



VHM  
SUB-MICRON

**XT**  
coating



<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr</b>	<b>Reseller price</b>
4	15	50	4	XM.040.015.050		XM.040.015.050XT	
4	20	60	4	XM.040.020.060		XM.040.020.060XT	
5	15	50	5	XM.050.015.050		XM.050.015.050XT	
6	18	60	6	XM.060.018.060		XM.060.018.060XT	
6	25	70	6	XM.060.025.070		XM.060.025.070XT	
8	20	60	8	XM.080.020.060		XM.080.020.060XT	
8	30	80	8	XM.080.030.080		XM.080.030.080XT	
10	25	70	10	XM.100.025.070		XM.100.025.070XT	
10	35	80	10	XM.100.035.080		XM.100.035.080XT	
12	30	80	12	XM.120.030.080		XM.120.030.080XT	
12	40	90	12	XM.120.040.090		XM.120.040.090XT	
14	35	90	14	XM.140.035.090		XM.140.035.090XT	
14	45	100	14	XM.140.045.100		XM.140.045.100XT	
16	35	90	16	XM.160.035.090		XM.160.035.090XT	
16	40	100	16	XM.160.040.100		XM.160.040.100XT	
20	40	100	20	XM.200.040.100		XM.200.040.100XT	
20	55	110	20	XM.200.055.110		XM.200.055.110XT	

GFRP

CFRP

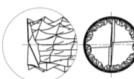
HC

GF



Pełno węglikowe frezy do kompozytów z ostrzami pilnikowymi . Router bits with multi diamond cut geometry

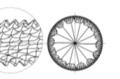
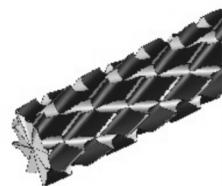
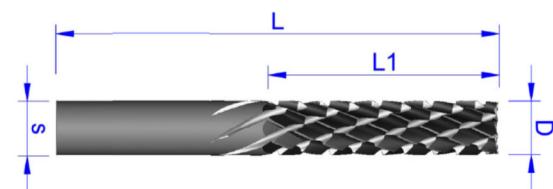
XN standard



XN - 1



XN - 2

VHM  
SUB-MICRONXT  
coating

D	L1	L	s	Art.. Nr		Art.. Nr	Reseller price
4	15	50	4	XC.040.015.050		XC.040.015.050XT	
4	20	60	4	XC.040.020.060		XC.040.020.060XT	
5	15	50	5	XC.050.015.050		XC.050.015.050XT	
6	18	60	6	XC.060.018.060		XC.060.018.060XT	
6	25	70	6	XC.060.025.070		XC.060.025.070XT	
8	20	60	8	XC.080.020.060		XC.080.020.060XT	
8	30	80	8	XC.080.030.080		XC.080.030.080XT	
10	25	70	10	XC.100.025.070		XC.100.025.070XT	
10	35	80	10	XC.100.035.080		XC.100.035.080XT	
12	30	80	12	XC.120.030.080		XC.120.030.080XT	
12	40	90	12	XC.120.040.090		XC.120.040.090XT	
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16	40	100	16	XC.160.040.100		XC.160.040.100XT	
20	40	100	20	XC.200.040.100		XC.200.040.100XT	
20	55	110	20	XC.200.055.110		XC.200.055.110XT	

Pełno węglkowe frezy do kompozytów z ostrzami pilnikowymi .

Router bits with multi diamond cut geometry

**GFRP**

**CFRP**

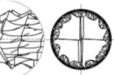
**HC**

**GF**

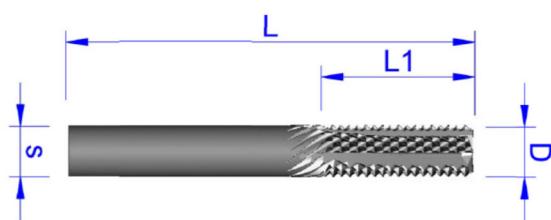
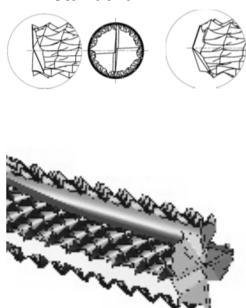
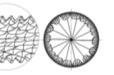
**XN standard**



**XN - 1**



**XN - 2**



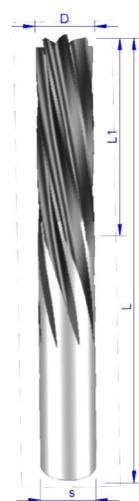
<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr</b>	<b>Reseller price</b>
6	18	55	6	XNV.060.018.055		XNV.060.018.055XT	
6	25	70	6	XNV.060.025.070		XNV.060.025.070XT	
8	22	60	8	XNV.080.022.060		XNV.080.022.060XT	
8	25	80	8	XNV.080.025.080		XNV.080.025.080XT	
10	25	80	10	XNV.100.025.080		XNV.100.025.080XT	
10	30	90	10	XNV.100.030.090		XNV.100.030.090XT	
12	30	90	12	XNV.120.030.090		XNV.120.030.090XT	
12	35	100	12	XNV.120.035.100		XNV.120.035.100XT	
14	35	90	14	XNV.140.035.090		XNV.140.035.090XT	
14	40	100	14	XNV.140.040.100		XNV.140.040.100XT	
16	35	90	16	XNV.160.035.090		XNV.160.035.090XT	
16	40	100	16	XNV.160.040.100		XNV.160.040.100XT	
20	40	100	20	XNV.200.040.100		XNV.200.040.100XT	
20	55	110	20	XNV.200.055.110		XNV.200.055.110XT	

GFRP

CFRP

HC

GF



Pełno węglikowe frezy do kompozytów wielostrzowe

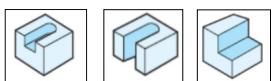
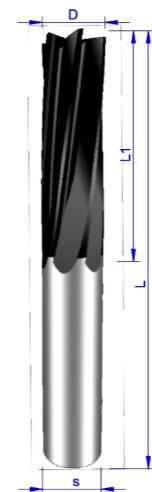
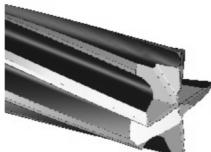
Router bits with multi cut geometry

XT  
coatingVHM  
SUB-MICRON

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>	<b>Art.. Nr XT</b>	<b>Reseller price</b>
6	15	60	6	GN.060.015.060	GN.060.015.060XT	
6	20	70	6	GN.060.020.070	GN.060.020.070XT	
8	20	70	8	GN.080.020.070	GN.080.020.070XT	
8	30	80	8	GN.080.030.080	GN.080.030.080XT	
10	20	70	10	GN.100.020.070	GN.100.020.070XT	
10	30	80	10	GN.100.030.080	GN.100.030.080XT	
12	30	80	12	GN.120.030.080	GN.120.030.080XT	
12	40	90	12	GN.120.040.090	GN.120.040.090XT	
14	35	90	14	GN.140.035.090	GN.140.035.090XT	
14	45	110	14	GN.140.045.110	GN.140.045.110XT	
16	35	90	16	GN.160.035.090	GN.160.035.090XT	
16	45	110	16	GN.160.045.110	GN.160.045.110XT	
20	40	110	20	GN.200.040.110	GN.200.040.110XT	
20	55	130	20	GN.200.055.130	GN.200.055.130XT	

Pełno węglikowe frezy do kompozytów wielostrzowe

Router bits with multi cut geometry

VHM  
SUB-MICRONXT  
coating

**GFRP**  
**CFRP**  
**HC**  
**GF**

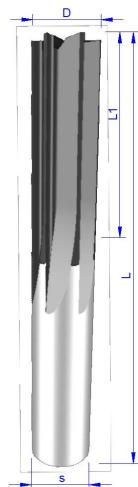
<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr XT</b>	<b>Reseller price</b>
6	15	50	6	GP.060.015.050		GP.060.015.050XT	
6	20	60	6	GP.060.020.060		GP.060.020.060XT	
8	20	60	8	GP.080.020.060		GP.080.020.060XT	
8	30	80	8	GP.080.030.080		GP.080.030.080XT	
10	25	70	10	GP.100.025.070		GP.100.025.070XT	
10	35	80	10	GP.100.035.080		GP.100.035.080XT	
12	30	80	12	GP.120.030.080		GP.120.030.080XT	
12	40	90	12	GP.120.040.090		GP.120.040.090XT	
14	35	90	14	GP.140.035.090		GP.140.035.090XT	
14	45	100	14	GP.140.045.100		GP.140.045.100XT	
16	35	90	16	GP.160.035.090		GP.160.035.090XT	
16	45	100	16	GP.160.045.100		GP.160.045.100XT	
20	40	100	20	GP.200.040.100		GP.200.040.100XT	
20	55	110	20	GP.200.055.110		GP.200.055.110XT	

GFRP

CFRP

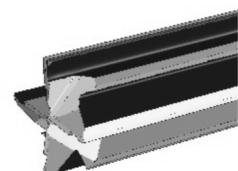
HC

GF



Pełno węglkowe frezy do kompozytów wielostrzowe.

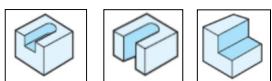
Router bits with multi cut geometry

XT  
coatingVHM  
SUB-MICRON

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr XT</b>	<b>Reseller price</b>
6	15	50	6	GS.060.015.050		GS.060.015.050XT	
6	20	60	6	GS.060.020.060		GS.060.020.060XT	
8	20	60	8	GS.080.020.060		GS.080.020.060XT	
8	30	80	8	GS.080.030.080		GS.080.030.080XT	
10	25	70	10	GS.100.025.070		GS.100.025.070XT	
10	35	80	10	GS.100.035.080		GS.100.035.080XT	
12	30	80	12	GS.120.030.080		GS.120.030.080XT	
12	40	90	12	GS.120.040.090		GS.120.040.090XT	
14	35	90	14	GS.140.035.090		GS.140.035.090XT	
14	45	100	14	GS.140.045.100		GS.140.045.100XT	
16	35	90	16	GS.160.035.090		GS.160.035.090XT	
16	45	100	16	GS.160.045.100		GS.160.045.100XT	
20	40	100	20	GS.200.040.100		GS.200.040.100XT	
20	55	110	20	GS.200.055.110		GS.200.055.110XT	

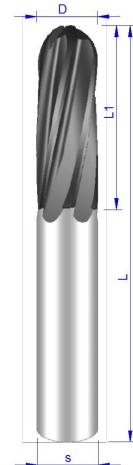
Pełno węglkowe frezy do kompozytów wielostrzowe z promieniem czoła

Router bits with multi cut geometry with radius on top



VHM  
SUB-MICRON

**XT**  
coating

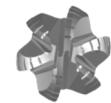


GFRP

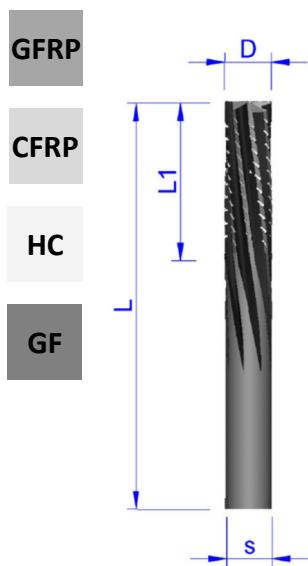
CFRP

HC

GF

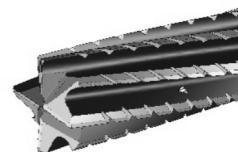


<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>	<b>Art.. Nr XT</b>	<b>Reseller price</b>
6	15	50	6	GPR.060.015.050	GPR.060.015.050XT	
6	20	60	6	GPR.060.020.060	GPR.060.020.060XT	
8	20	60	8	GPR.080.020.060	GPR.080.020.060XT	
8	30	80	8	GPR.080.030.080	GPR.080.030.080XT	
10	25	70	10	GPR.100.025.070	GPR.100.025.070XT	
10	35	80	10	GPR.100.035.080	GPR.100.035.080XT	
12	30	80	12	GPR.120.030.080	GPR.120.030.080XT	
12	40	90	12	GPR.120.040.090	GPR.120.040.090XT	
14	35	90	14	GPR.140.035.090	GPR.140.035.090XT	
14	45	100	14	GPR.140.045.100	GPR.140.045.100XT	
16	35	90	16	GPR.160.035.090	GPR.160.035.090XT	
16	45	100	16	GPR.160.045.100	GPR.160.045.100XT	
20	40	100	20	GPR.200.040.100	GPR.200.040.100XT	
20	55	110	20	GPR.200.055.110	GPR.200.055.110XT	



Pełno węglikowe frezy do kompozytów wielostrzowe

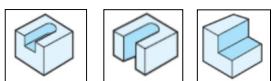
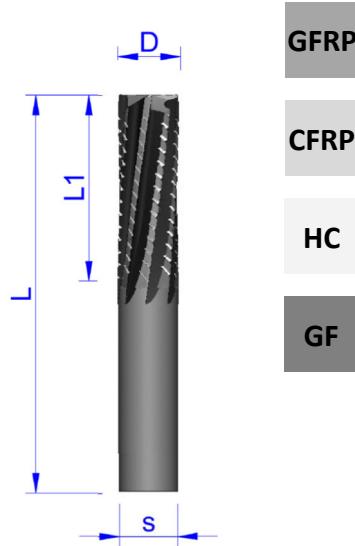
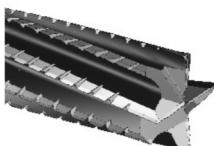
Router bits with multi cut geometry

XT  
coatingVHM  
SUB-MICRON

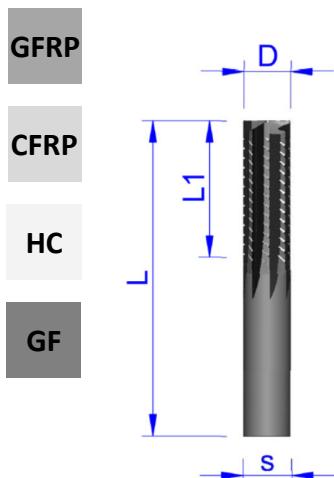
D	L1	L	s	Art. Nr		Art. Nr	Reseller price
6	15	60	6	VN.060.015.060		VN.060.015.060XT	
6	20	70	6	VN.060.020.070		VN.060.020.070XT	
8	20	70	8	VN.080.020.070		VN.080.020.070XT	
8	30	80	8	VN.080.030.080		VN.080.030.080XT	
10	20	70	10	VN.100.020.070		VN.100.020.070XT	
10	30	80	10	VN.100.030.080		VN.100.030.080XT	
12	30	80	12	VN.120.030.080		VN.120.030.080XT	
12	40	90	12	VN.120.040.090		VN.120.040.090XT	
14	35	90	14	VN.140.035.090		VN.140.035.090XT	
14	45	100	14	VN.140.045.100		VN.140.045.100XT	
16	35	90	16	VN.160.035.090		VN.160.035.090XT	
16	45	100	16	VN.160.045.100		VN.160.045.100XT	
20	40	110	20	VN.200.040.110		VN.200.040.110XT	
20	55	130	20	VN.200.055.130		VN.200.055.130XT	

Pełno węglikowe frezy do kompozytów wielostrzowe

Router bits with multi cut geometry

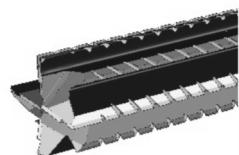
VHM  
SUB-MICRONXT  
coating

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>	<b>Art.. Nr</b>	<b>Reseller price</b>
6	15	50	6	VP.060.015.050	VP.060.015.050XT	
6	20	60	6	VP.060.020.060	VP.060.020.060XT	
8	20	60	8	VP.080.020.060	VP.080.020.060XT	
8	30	80	8	VP.080.030.080	VP.080.030.080XT	
10	25	70	10	VP.100.025.070	VP.100.025.070XT	
10	35	80	10	VP.100.035.080	VP.100.035.080XT	
12	30	80	12	VP.120.030.080	VP.120.030.080XT	
12	40	90	12	VP.120.040.090	VP.120.040.090XT	
14	35	90	14	VP.140.035.090	VP.140.035.090XT	
14	45	100	14	VP.140.045.100	VP.140.045.100XT	
16	35	90	16	VP.160.035.090	VP.160.035.090XT	
16	45	100	16	VP.160.045.100	VP.160.045.100XT	
20	40	100	20	VP.200.040.100	VP.200.040.100XT	
20	55	110	20	VP.200.055.110	VP.200.055.110XT	



Pełno węglkowe frezy do kompozytów wielostrzowe

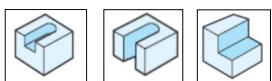
Router bits with multi cut geometry

XT  
coatingVHM  
SUB-MICRON

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr</b>	<b>Reseller price</b>
6	15	50	6	VS.060.015.050		VS.060.015.050XT	
6	20	60	6	VS.060.020.060		VS.060.020.060XT	
8	20	60	8	VS.080.020.060		VS.080.020.060XT	
8	30	80	8	VS.080.030.080		VS.080.030.080XT	
10	25	70	10	VS.100.025.070		VS.100.025.070XT	
10	35	80	10	VS.100.035.080		VS.100.035.080XT	
12	30	80	12	VS.120.030.080		VS.120.030.080XT	
12	40	90	12	VS.120.040.090		VS.120.040.090XT	
14	35	90	14	VS.140.035.090		VS.140.035.090XT	
14	45	100	14	VS.140.045.100		VS.140.045.100XT	
16	35	90	16	VS.160.035.090		VS.160.035.090XT	
16	45	100	16	VS.160.045.100		VS.160.045.100XT	
20	40	100	20	VS.200.040.100		GP.200.040.100XT	
20	55	110	20	VS.200.055.110		GP.200.055.110XT	

Pełno węglkowe frezy do kompozytów wielostrzowe z promieniem czola

Router bits with multi cut geometry with radius on top



VHM  
SUB-MICRON

**XT**  
coating



GFRP

CFRP

HC

GF

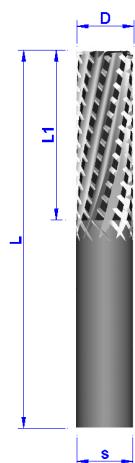
<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>	<b>Art.. Nr</b>	<b>Reseller price</b>
6	15	50	6	VPR.060.015.050	VPR.060.015.050XT	
6	20	60	6	VPR.060.020.060	VPR.060.020.060XT	
8	20	60	8	VPR.080.020.060	VPR.080.020.060XT	
8	30	80	8	VPR.080.030.080	VPR.080.030.080XT	
10	25	70	10	VPR.100.025.070	VPR.100.025.070XT	
10	35	80	10	VPR.100.035.080	VPR.100.035.080XT	
12	30	80	12	VPR.120.030.080	VPR.120.030.080XT	
12	40	90	12	VPR.120.040.090	VPR.120.040.090XT	
14	35	90	14	VPR.140.035.090	VPR.140.035.090XT	
14	45	100	14	VPR.140.045.100	VPR.140.045.100XT	
16	35	90	16	VPR.160.035.090	VPR.160.035.090XT	
16	45	100	16	VPR.160.045.100	VPR.160.045.100XT	
20	40	100	20	VPR.200.040.100	VPR.200.040.100XT	
20	55	110	20	VPR.200.055.110	VPR.200.055.110XT	

GFRP

CFRP

HC

GF



Pełno węglkowe frezy do kompozytów wielostrzowe

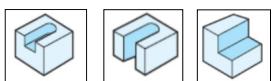
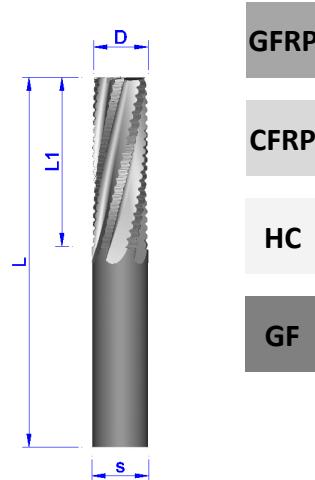
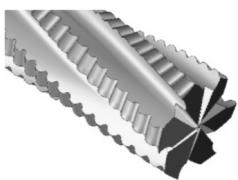
Router bits with multi cut geometry

XT  
coatingVHM  
SUB-MICRON

D	L1	L	s	Z	Art. Nr	Art. Nr
6	15	60	6	6	VCP.060.015.060	VCP.060.015.060XT
6	25	70	6	6	VCP.060.025.070	VCP.060.025.070XT
8	15	60	8	8	VCP.080.015.060	VCP.080.015.060XT
8	25	70	8	8	VCP.080.025.070	VCP.080.025.070XT
10	25	70	10	10	VCP.100.025.070	VCP.100.025.070XT
10	35	90	10	10	VCP.100.035.090	VCP.100.035.090XT
12	30	80	12	12	VCP.120.030.080	VCP.120.030.080XT
12	40	90	12	12	VCP.120.040.900	VCP.120.040.900XT
14	30	80	12	12	VCP.140.030.080	VCP.140.030.080XT
14	40	90	12	12	VCP.140.040.090	VCP.140.040.090XT
16	35	90	12	16	VCP.160.035.090	VCP.160.035.090XT
16	50	100	12	16	VCP.160.050.100	VCP.160.050.100XT

Pełno węglkowe frezy do kompozytów wielostrzowe

Router bits with multi cut geometry

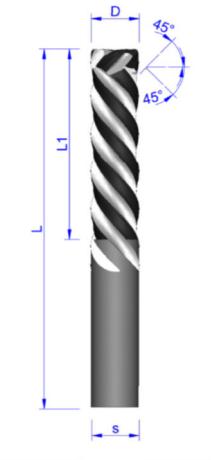
VHM  
SUB-MICRONXT  
coating

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Z</b>	<b>Art.. Nr</b>	<b>Art.. Nr</b>	<b>Reseller price</b>
6	15	60	6	4	VCR.060.015.060	VCR.060.015.060XT	
6	25	65	6	4	VCR.060.025.065	VCR.060.025.065XT	
8	20	65	8	5	VCR.080.020.065	VCR.080.020.065XT	
8	30	80	8	5	VCR.080.030.080	VCR.080.030.080XT	
10	25	70	10	6	VCR.100.025.070	VCR.100.025.070XT	
10	35	80	10	6	VCR.100.035.080	VCR.100.035.080XT	
12	30	80	12	8	VCR.120.030.080	VCR.120.030.080XT	
12	40	90	12	8	VCR.120.040.090	VCR.120.040.090XT	
16	35	90	16	8	VCR.120.035.090	VCR.160.035.090XT	
16	50	100	16	8	VCR.120.050.100	VCR.160.050.100XT	

GFRP

CFRP

HC



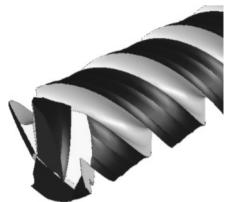
Pełno węglikowe frezy do kompozytów wielostrzowe  
kompresyjne

Router bits with compression cut geometry

**XT**  
coating



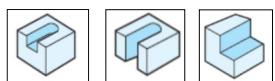
VHM  
SUB-MICRON



D	L1	L	s	Z	Art.. Nr		Art.. Nr	Reseller price
6	20	70	6	3+3	TC45.060.020.070		TC45.060.020.070XT	
8	20	70	8	4+4	TC45.080.020.070		TC45.080.020.070XT	
8	30	80	8	4+4	TC45.080.030.080		TC45.080.030.080XT	
10	20	70	10	4+4	TC45.100.020.070		TC45.100.020.070XT	
10	30	80	10	4+4	TC45.100.030.080		TC45.100.030.080XT	
12	25	80	12	4+4	TC45.120.025.080		TC45.120.025.080XT	
12	40	100	12	4+4	TC45.120.040.100		TC45.120.040.100XT	
16	35	90	16	4+4	TC45.160.035.090		TC45.160.035.090XT	
16	50	110	16	4+4	TC45.160.050.110		TC45.160.050.110XT	

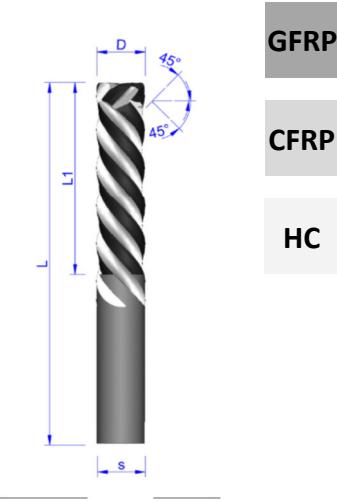
Pełno węglkowe frezy do kompozytów wielostrzowe  
kompresyjne

Router bits with compression cut geometry



VHM  
SUB-MICRON

**XT**  
coating



GFRP

CFRP

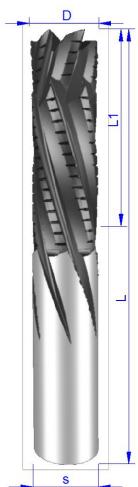
HC

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Z</b>	<b>Art.. Nr</b>	<b>Art.. Nr</b>	<b>Reseller price</b>
6	20	70	6	3+3	TCB45.060.020.070	TCB45.060.020.070XT	
8	20	70	8	4+4	TCB45.080.020.070	TCB45.080.020.070XT	
8	25	80	8	4+4	TCB45.080.025.080	TCB45.080.025.080XT	
10	20	70	10	4+4	TCB45.100.020.070	TCB45.100.020.070XT	
10	30	80	10	4+4	TCB45.100.030.080	TCB45.100.030.080XT	
12	25	80	12	4+4	TCB45.120.025.080	TCB45.120.025.080XT	
12	40	100	12	4+4	TCB45.120.040.100	TCB45.120.040.100XT	
16	35	90	16	4+4	TCB45.160.035.090	TCB45.160.035.090XT	
16	50	110	16	4+4	TCB45.160.050.110	TCB45.160.050.110XT	

GFRP

CFRP

HC



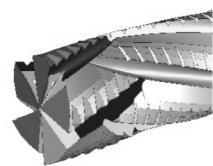
Pełno węglikowe frezy do kompozytów wielostrzowe  
kompresyjne

Router bits with compression cut geometry

**XT**  
coating



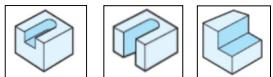
VHM  
SUB-MICRON



D	L1	L	s	Z	Art.. Nr		Art.. Nr	Reseller price
6	15	60	6	4+4	TWC.060.015.060		TWC.060.015.060XT	
6	20	70	6	4+4	TWC.060.020.070		TWC.060.020.070XT	
8	15	60	8	4+4	TWC.080.015.060		TWC.080.015.060XT	
8	25	80	8	4+4	TWC.080.025.080		TWC.080.025.080XT	
10	25	80	10	5+5	TWC.100.025.080		TWC.100.025.080XT	
10	35	90	10	5+5	TWC.100.035.090		TWC.100.035.090XT	
12	30	90	12	6+6	TWC.120.030.090		TWC.120.030.090XT	
12	40	100	12	6+6	TWC.120.040.100		TWC.120.040.100XT	
14	30	90	14	6+6	TWC.140.030.090		TWC.140.030.090XT	
14	45	100	14	6+6	TWC.140.045.100		TWC.140.045.100XT	
16	35	90	16	6+6	TWC.160.035.090		TWC.160.035.090XT	
16	45	100	16	6+6	TWC.160.045.100		TWC.160.045.100XT	

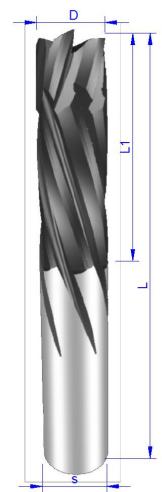
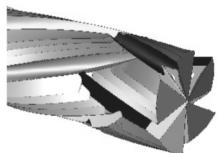
Pełno węglkowe frezy do kompozytów wielostrzowe  
kompresyjne

Router bits with compression cut geometry



VHM  
SUB-MICRON

**XT**  
coating



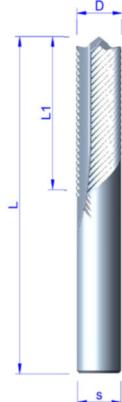
**GFRP**  
**CFRP**  
**HC**

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Z</b>	<b>Art.. Nr</b>		<b>Art.. Nr</b>	<b>Reseller price</b>
6	15	60	6	4+4	TWG.060.015.060		TWG.060.015.060XT	
6	20	70	6	4+4	TWG.060.020.070		TWG.060.020.070XT	
8	15	60	8	4+4	TWG.080.015.060		TWG.080.015.060XT	
8	25	80	8	4+4	TWG.080.025.080		TWG.080.025.080XT	
10	25	80	10	5+5	TWG.100.025.080		TWG.100.025.080XT	
10	35	90	10	5+5	TWG.100.035.090		TWG.100.035.090XT	
12	30	90	12	6+6	TWG.120.030.090		TWG.120.030.090XT	
12	40	100	12	6+6	TWG.120.040.100		TWG.120.040.100XT	
14	30	90	14	6+6	TWG.140.030.090		TWG.140.030.090XT	
14	45	100	14	6+6	TWG.140.045.100		TWG.140.045.100XT	
16	35	90	16	6+6	TWG.160.035.090		TWG.160.035.090XT	
16	45	100	16	6+6	TWG.160.045.100		TWG.160.045.100XT	

AR

Pełno węglikowe frezy do kompozytów wielostrzowe do obróbki włókien aramidowych.

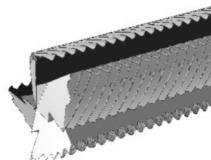
Router bits with multi cut geometry for aramid.



**XT  
coating**



VHM  
SUB-MICRON

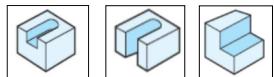


D	L1	L	s	Z	Art.. Nr		Art.. Nr	Reseller price
4	12	50	4	2	KV2.040.012.050		KV2.040.012.050XT	
5	15	60	5	2	KV2.050.015.060		KV2.050.015.060XT	
6	20	60	6	2	KV2.060.020.060		KV2.060.020.060XT	
6	25	80	6	2	KV2.060.025.080		KV2.060.025.080XT	
8	25	70	8	2	KV2.080.025.070		KV2.080.025.070XT	
8	35	90	8	2	KV2.080.035.090		KV2.080.035.090XT	
10	25	80	10	4	KV4.100.025.080		KV4.100.025.080XT	
10	35	90	10	4	KV4.100.035.090		KV4.100.035.090XT	
12	30	90	12	4	KV4.120.030.090		KV4.120.030.090XT	
12	40	100	12	4	KV4.120.040.100		KV4.120.040.100XT	
14	30	90	12	4	KV4.140.030.090		KV4.140.030.090XT	
14	40	100	12	4	KV4.140.040.100		KV4.140.040.100XT	
16	30	90	12	4	KV4.160.030.090		KV4.160.030.090XT	
16	40	100	12	4	KV4.160.040.100		KV4.160.040.100XT	

Pełno węglkowe frezy do kompozytów wielostrzowe  
kompresyjne do aramidu.

Router bits with compression cut geometry fo aramid.

**AR**



VHM  
SUB-MICRON

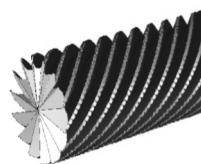
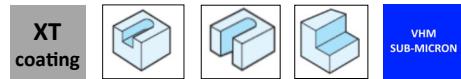
**XT**  
coating



<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>	<b>Art.. Nr</b>	<b>Reseller price</b>
6	20	70	6	TKV60.060.020.070	TKV60.060.020.070XT	
8	20	70	8	TKV60.080.020.070	TKV60.080.020.070XT	
8	25	80	8	TKV60.080.025.080	TKV60.080.025.080XT	
10	20	70	10	TKV60.100.020.070	TKV60.100.020.070XT	
10	30	80	10	TKV60.100.030.080	TKV60.100.030.080XT	
12	25	80	12	TKV60.120.025.080	TKV60.120.025.080XT	
12	40	100	12	TKV60.120.040.100	TKV60.120.040.100XT	

**HC**

Pełno węglkowe frezy do kompozytów, wielostrzowe. Do Honeycomb  
Router bits with multi cut geometry. For Honeycomb.

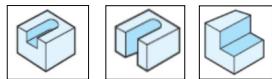


D	L1	L	s	Art.. Nr		Art.. Nr	Reseller price
6	20	60	6	HC.060.020.060		HC.060.020.060XT	
6	30	80	6	HC.060.030.080		HC.060.030.080XT	
8	25	70	8	HC.080.025.070		HC.080.025.070XT	
8	35	80	8	HC.080.035.080		HC.080.035.080XT	
10	30	80	10	HC.100.030.080		HC.100.030.080XT	
10	40	90	10	HC.100.040.090		HC.100.040.090XT	
12	30	80	12	HC.120.030.080		HC.120.030.080XT	
12	40	90	12	HC.120.040.090		HC.120.040.090XT	
14	35	90	14	HC.140.035.090		HC.140.035.090XT	
14	45	100	14	HC.140.045.100		HC.140.045.100XT	
16	35	90	16	HC.160.035.090		HC.160.035.090XT	
16	45	100	16	HC.160.045.100		HC.160.045.100XT	
20	40	90	20	HC.200.040.090		HC.200.040.090XT	
20	55	110	20	HC.200.055.110		HC.200.055.110XT	

Pełno węglkowe frezy do kompozytów, wielostrzowe. Do Router bits with multi cut geometry. For Honeycomb.

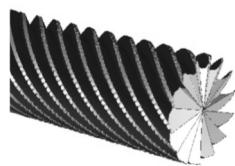
Honeycomb.

**HC**



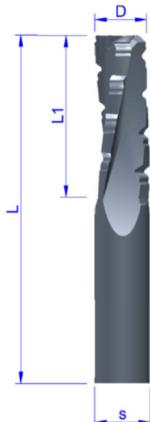
VHM  
SUB-MICRON

**XT**  
coating



<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>	<b>Art.. Nr</b>	<b>Reseller price</b>
16	30	80	12	HCH.160.030.080	HCH.160.030.080XT	
16	45	100	12	HCH.160.045.100	HCH.160.045.100XT	
20	30	80	16	HCH.200.030.080	HCH.200.030.080XT	
20	45	100	16	HCH.200.045.100	HCH.200.045.100XT	
22	30	80	16	HCH.220.030.080	HCH.220.030.080XT	
22	45	100	16	HCH.220.045.100	HCH.220.045.100XT	
25	30	80	16	HCH.250.030.080	HCH.250.030.080XT	
25	45	100	16	HCH.250.045.100	HCH.250.045.100XT	

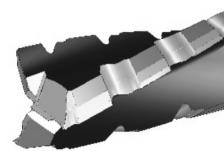
PH



HR

Pełno węglikowe frezy do kompozytów wielostrzowe do tekstułitu i twardzej gumy.

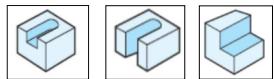
Router bits with multi cut geometry for Phenolic and hard rubber

XT  
coatingVHM  
SUB-MICRON

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr</b>	<b>Reseller price</b>
10	25	70	10	FT.100.025.070		FT.100.025.070XT	
10	35	80	10	FT.100.035.080		FT.100.035.080XT	
12	25	70	12	FT.120.025.070		FT.120.025.070XT	
12	35	80	12	FT.120.035.080		FT.120.035.080XT	
14	35	80	14	FT.140.035.080		FT.140.035.080XT	
14	45	90	14	FT.140.045.090		FT.140.045.090XT	
16	35	80	16	FT.160.035.080		FT.160.035.080XT	
16	45	90	16	FT.160.045.090		FT.160.045.090XT	

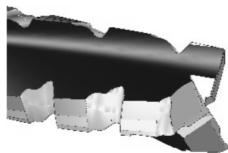
Pełno węglkowe frezy do kompozytów wielostrzowe do tekstolitu i twardzej gumy.

Router bits with multi cut geometry for Phenolic and hard rubber



VHM  
SUB-MICRON

**XT**  
coating

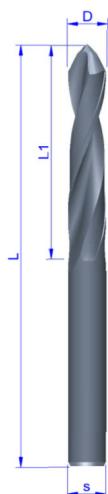


**PH**

**HR**

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr</b>	<b>Reseller price</b>
10	25	80	10	FTN.100.025.080		FTN.100.025.080XT	
10	35	90	10	FTN.100.035.090		FTN.100.035.090XT	
12	25	80	12	FTN.120.025.080		FTN.120.025.080XT	
12	35	90	12	FTN.120.035.090		FTN.120.035.090XT	
14	25	80	14	FTN.140.025.080		FTN.140.025.080XT	
14	45	100	14	FTN.140.045.100		FTN.140.045.100XT	
16	35	90	16	FTN.160.035.090		FTN.160.035.090XT	
16	45	100	16	FTN.160.045.100		FTN.160.045.100XT	

GFRP



Pełno węglikowe wiertła do kompozytów

Solid carbide drills for composite

CFRP

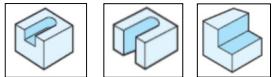
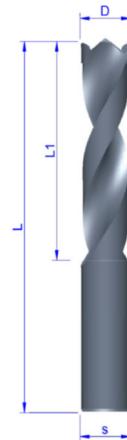
HC

XT  
coatingVHM  
SUB-MICRON

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>	<b>Art.. Nr</b>	<b>Reseller price</b>
3	30	60	3	DA1.030.030.060	DA1.030.030.060XT	
3,5	30	60	4	DA1.035.030.060	DA1.035.030.060XT	
4	35	65	4	DA1.040.035.065	DA1.040.035.065XT	
4,5	35	65	5	DA1.045.035.065	DA1.045.035.065XT	
5	40	70	5	DA1.050.040.070	DA1.050.040.070XT	
5,5	40	70	6	DA1.055.040.070	DA1.055.040.070XT	
6	50	80	6	DA1.060.050.080	DA1.060.050.080XT	
6,5	50	80	7	DA1.065.050.080	DA1.065.050.080XT	
7	50	80	7	DA1.070.050.080	DA1.070.050.080XT	
7,5	50	80	8	DA1.075.050.080	DA1.075.050.080XT	
8	55	90	8	DA1.080.055.090	DA1.080.055.090XT	
8,5	55	90	9	DA1.085.055.090	DA1.085.055.090XT	
9	60	100	9	DA1.090.060.100	DA1.090.060.100XT	
9,5	60	100	10	DA1.095.060.100	DA1.095.060.100XT	
10	65	110	10	DA1.100.065.110	DA1.100.065.110XT	
10,5	65	110	11	DA1.105.065.110	DA1.105.065.110XT	
11	70	120	11	DA1.110.070.120	DA1.110.070.120XT	
12	70	120	12	DA1.120.070.120	DA1.120.070.120XT	

Pełno węglkowe wiertła do kompozytów

Solid carbide drills for composite

VHM  
SUB-MICRONXT  
coating

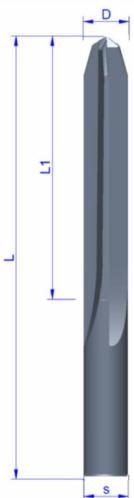
GFRP

CFRP

HC

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr</b>	
3	20	60	3	DC2.030.020.060		DC2.030.020.060XT	
4	20	60	4	DC2.040.020.060		DC2.040.020.060XT	
5	20	70	5	DC2.050.020.070		DC2.050.020.070XT	
6	20	70	6	DC2.060.020.070		DC2.060.020.070XT	
7	20	70	7	DC2.070.020.070		DC2.070.020.070XT	
8	25	70	8	DC2.080.025.070		DC2.080.025.070XT	
9	25	70	9	DC2.090.025.070		DC2.090.025.070XT	
10	35	80	10	DC2.100.035.080		DC2.100.035.080XT	
11	35	80	11	DC2.110.035.080		DC2.110.035.080XT	
12	35	80	12	DC2.120.035.080		DC2.120.035.080XT	

GFRP



Pełno węglikowe wiertła do kompozytów

Solid carbide drills for composite

CFRP

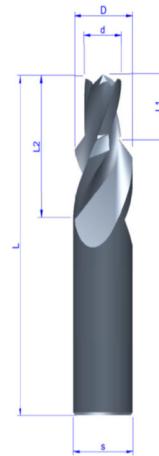
HC

XT  
coatingVHM  
SUB-MICRON

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>	<b>Art.. Nr</b>	<b>Reseller price</b>
3	40	90	3	DR1.030.040.090	DR1.030.040.090XT	
4	45	90	4	DR1.040.045.090	DR1.040.045.090XT	
5	45	90	5	DR1.050.045.090	DR1.050.045.090XT	
5,5	45	90	6	DR1.055.045.090	DR1.055.045.090XT	
6	50	100	6	DR1.060.050.100	DR1.060.050.100XT	
6,5	50	100	7	DR1.065.050.100	DR1.065.050.100XT	
7	50	100	7	DR1.070.050.100	DR1.070.050.100XT	
7,5	50	100	8	DR1.075.050.100	DR1.075.050.100XT	
8	50	100	8	DR1.080.050.100	DR1.080.050.100XT	
8,5	50	100	9	DR1.085.050.100	DR1.085.050.100XT	
9	50	100	9	DR1.090.050.100	DR1.090.050.100XT	
9,5	50	100	10	DR1.095.050.100	DR1.095.050.100XT	
10	50	100	10	DR1.100.050.100	DR1.100.050.100XT	
10,5	50	100	11	DR1.105.050.100	DR1.105.050.100XT	
11	50	100	11	DR1.110.050.100	DR1.110.050.100XT	
12	50	100	12	DR1.120.050.100	DR1.120.050.100XT	

Pełno węglikowe wiertła do kompozytów

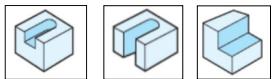
Solid carbide drills for composite



GFRP

CFRP

HC

VHM  
SUB-MICRONXT  
coating

W1



W2

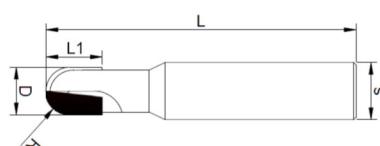


<b>d</b>	<b>D</b>	<b>L1</b>	<b>L2</b>	<b>L</b>	<b>s</b>	<b>Art.. Nr</b>		<b>Art.. Nr</b>	<b>Reseller price</b>
4,0	10	20	15	65	10	DS2.040.020.100.065		DS2.040.020.100.065XT	
4,2	10	20	15	65	10	DS2.042.020.100.065		DS2.042.020.100.065XT	
4,5	10	20	15	70	10	DS2.045.020.100.070		DS2.045.020.100.070XT	
5,0	12	22	15	70	10	DS2.050.022.120.070		DS2.050.022.120.070XT	
5,5	12	22	15	80	10	DS2.055.022.120.080		DS2.055.022.120.080XT	
6,0	14	25	20	90	10	DS2.060.025.140.090		DS2.060.025.140.090XT	
6,5	14	30	20	90	10	DS2.065.030.140.090		DS2.065.030.140.090XT	
7,0	16	30	20	100	10	DS2.070.030.160.100		DS2.070.030.160.100XT	
8,0	16	30	20	100	10	DS2.080.030.160.100		DS2.080.030.160.100XT	
9,0	16	30	20	100	10	DS2.090.030.160.100		DS2.090.030.160.100XT	
10,0	20	30	20	100	10	DS2.100.030.200.100		DS2.100.030.200.100XT	
11,0	20	30	20	100	10	DS2.110.030.200.100		DS2.110.030.200.100XT	

**GFRP**

Frezy Diamantowe do kompozytów

PCD Router bits for composite

**CFRP****HC**

D	R	L1	L	s	z	Art.. Nr
6	3,0	8	60	6	1	PCDR.060.010.060
7	3,5	8	60	8	1	PCDR.070.010.060
8	4,0	10	60	8	1	PCDR.080.012.060
9	4,5	12	60	8	1	PCDR.090.015.060
10	5,0	10	60	10	2	PCDR.100.010.060
10	5,0	15	70	10	2	PCDR.100.015.070
12	6,0	15	70	12	2	PCDR.120.015.070
12	6,0	20	90	12	2	PCDR.120.020.090
14	7,0	15	70	12	2	PCDR.140.015.070
14	7,0	25	90	12	2	PCDR.140.025.090
16	8,0	15	70	12	2	PCDR.160.015.070
16	8,0	25	90	12	2	PCDR.160.025.090

Frezy Diamantowe do kompozytów

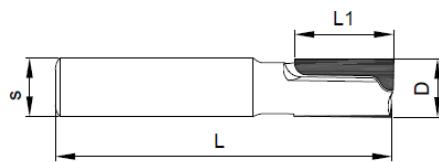
PCD Router bits for composite



GFRP

CFRP

HC

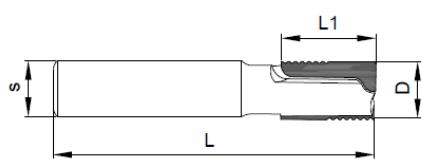


<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Z</b>	<b>Art.. Nr</b>
5	8	60	6	1	PCDF.050.008.060
6	10	60	6	1	PCDF.060.010.060
7	10	60	8	1	PCDF.070.010.060
8	12	60	8	2	PCDF.080.012.060
9	15	60	8	2	PCDF.090.015.060
10	10	60	10	2	PCDF.100.010.060
10	20	70	10	2	PCDF.100.020.070
12	15	70	12	2	PCDF.120.015.070
12	25	90	12	2	PCDF.120.025.090
14	15	70	12	2	PCDF.140.015.070
14	25	90	12	2	PCDF.140.025.090
16	15	70	12	2	PCDF.160.015.070
16	25	90	12	2	PCDF.160.025.090

**GFRP**

Frezy Diamantowe do kompozytów

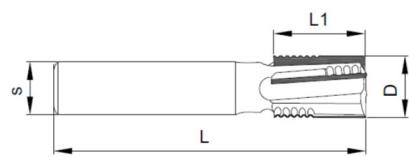
PCD Router bits for composite

**CFRP****HC**

D	L1	L	s	Z	Art.. Nr	
12	19	70	12	2	PCD2FR.120.019.070	
12	24	75	12	2	PCD2FR.120.024.075	
12	28	80	12	2	PCD2FR.120.028.080	
14	19	70	12	2	PCD2FR.140.019.070	
14	24	75	12	2	PCD2FR.140.024.075	
14	28	80	12	2	PCD2FR.140.028.080	

Frezy Diamantowe do kompozytów

PCD Router bits for composite

**GFRP****CFRP****HC**

<b>D</b>	<b>L1</b>	<b>L</b>	<b>s</b>	<b>Z</b>	<b>Art.. Nr</b>
12	19	70	12	4	PCD4FR.120.019.070
12	24	75	12	4	PCD4FR.120.024.075
12	28	80	12	4	PCD4FR.120.028.080
14	19	70	12	4	PCD4FR.140.019.070
14	24	75	12	4	PCD4FR.140.024.075
14	28	80	12	4	PCD4FR.140.028.080

