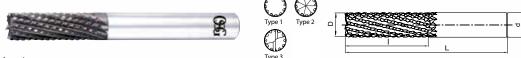
# **DIA-BNC**

# Fine Pitch Nicked Router - Diamond Coated



#### Metric

EDP Number	Mill Dia.	Length of Cut	OAL	Shank Diameter	No. of Flutes Type		Stock	Price
	D	ı	L	d	No. of Flutes	Туре	Stock	Price
48108001	6	18	68	6	8	2	•	
48108002	8	24	74	8	10	2	•	
48108003	10	30	80	10	12	2	•	
48108004	12	36	86	12	14	2	•	
48108011	6	18	68	6	8	3	•	
48108012	8	24	74	8	10	3	•	
48108013	10	30	80	10	12	3	•	
48108014	12	36	86	12	14	3	•	

#### Inch

EDP Number	Mill Dia.	Length of Cut	OAL	Shank Diameter		_	<u>.</u>	
	D	I	L	d	No. of Flutes	Туре	Stock	Price
20610116	1/8	1/4	1 1/2	1/8	6	2	0	
20611116	1/8	3/8 1/2 3/8	1 1/2	1/8	6	2 3	0	
20612116	1/8	1/2	1 1/2	1/8	8	3	0	
20610216	3/16	3/8	2′	3/16	6	2	0	
20611216	3/16	9/16	2	3/16	6	3	0	
20612216	3/16	3/4	2	3/16	8	3	0	
20610316	1/4	1/2	2 1/2	1/4	8	2	0	
20611316	1/4	3/4	2 1/2	1/4	10	3	0	
20612316	1/4	3/4	2 1/2	1/4	10	2	0	
20613316	1/4	1	3	1/4	10	3	0	
20614316	1/4	1	3	1/4	10	2	0	
20615316	1/4	1 1/4	4	1/4	12	1	0	
20610416	5/16	1	2 1/2	5/16	10	3	0	
20610516	3/8	3/4	2 1/2	3/8	12	2	0	
20611516	3/8	1 1/8	3	3/8	12	3	0	
20612516	3/8	1 1/8	3	3/8	12	2	0	
20613516	3/8	1 1/2	4	3/8	12	3	0	
20614516	3/8	1 1/2	4	3/8	12	2	0	
20615516	3/8	2	4	3/8	12	1	0	
20610716	1/2	1	3	1/2	14	3	0	
20611716	1/2	1	3	1/2	14	2	0	
20612716	1/2	2	4	1/2	16	2	0	

**Packed:** 1 pc. Available Diamond coating only. Type 1: No End Cut, Type 2: Bur End, Type 3: End Mill Cut

## **Recommended Cutting Conditions**

	Side n	nilling	Slotting			
Speed m/min.	120	240	90	180		
Depth of Cut	Aa: Up to 1,5D / Ar: Up to 1D		Aa: 1D			
Dia.	Feed mm/min	Feed mm/min	Feed mm/min	Feed mm/min		
1/8	500	1.000	250	500		
3/16	630	1.300	300	600		
1/4 6mm	770	1.600	380	750		
5/16 8mm	900	1.800	450	900		
3/8 10mm	1.000	2.000	510	1.000		
1/2 12mm	1.300	2.600	630	1.300		

**Note:** This table's parameters are based on common material thickness of approximately 0.250" under excellent workholding conditions and less than 20% x D depth of cut (side milling). Please adjust your parameters properly for your application or call OSG for assistance. Conventional milling is recommended for better surface finishes. Higher feed rates are possible but quality of part and surface should be considered.

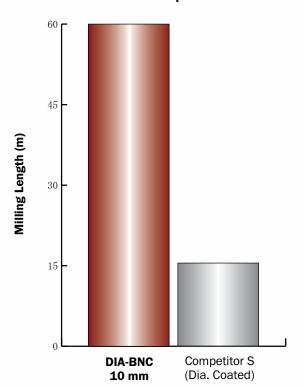


The DIA-BNC is a patented diamond coated fine nicked router specifically designed for carbon fiber composite trimming. The router features a patented cutting geometry coupled with OSG's patented diamond coating.

### Performance Highlights

Although the details of the machining conditions cannot be disclosed, our products achieved approximately four times the tool life versus the competitor product (from company S).

#### **Tool Life Comparison**





**Pictured on left:** End trimming of a CFRP stringer.

