

HY-PRO® CARB

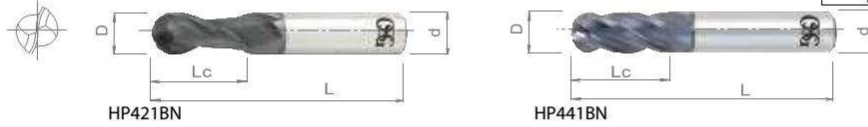
Performance Sub-Micrograin Carbide End Mills

List HP421BN, HP441BN

2 or 4 Flute, Ball End

SPEED FEED P1249- 1250	CARBIDE	TiAlN	35°	SHANK h6
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Milling Diameter Tolerance	
1 ≤ D ≤ 25	+0 / -0.038mm



Units: mm

EDP Number		Mill Diameter	Overall Length	Length of Cut	Shank Diameter
List HP421BN (2 Flute)	List HP441BN (4 Flute)				
TiAlN	TiAlN	D	L	Lc	d
HP421-0394-BN	HP441-0394-BN	1.0	39	3	3
HP421-0591-BN	HP441-0591-BN	1.5	39	5	3
HP421-0787-BN	HP441-0787-BN	2.0	39	7	3
HP421-0984-BN	HP441-0984-BN	2.5	39	8	3
HP421-1181-BN	HP441-1181-BN	3.0	39	10	3
HP421-1378-BN	HP441-1378-BN	3.5	51	12	4
HP421-1575-BN	HP441-1575-BN	4.0	51	14	4
HP421-1772-BN	HP441-1772-BN	4.5	51	14	5
HP421-1968-BN	HP441-1968-BN	5.0	51	16	5
HP421-2362-BN	HP441-2362-BN	6.0	64	19	6
HP421-2756-BN	HP441-2756-BN	7.0	64	19	8
HP421-3150-BN	HP441-3150-BN	8.0	64	21	8
HP421-3543-BN	HP441-3543-BN	9.0	70	22	10
HP421-3937-BN	HP441-3937-BN	10.0	70	25	10
HP421-4331-BN	HP441-4331-BN	11.0	70	25	11
HP421-4724-BN	HP441-4724-BN	12.0	76	25	12
HP421-5512-BN	HP441-5512-BN	14.0	89	30	14
HP421-6299-BN	HP441-6299-BN	16.0	89	32	16
HP421-7087-BN	HP441-7087-BN	18.0	102	35	18
HP421-7874-BN	HP441-7874-BN	20.0	102	38	20
HP421-8661-BN	HP441-8661-BN	22.0	102	38	22
HP421-9843-BN	HP441-9843-BN	25.0	102	38	25

Packed: 1 pc.
Available TiAlN coating only.



OSG's Performance & Savings

Want to turbo-charge performance? Try EXOCARB® WXL® - List 3710 (p. 854)
or EXOCARB® WXS® - List 4530 (p. 900)

Chart applies to all list numbers above	Work Material																
	P					M			K	N		S	H				
	Carbon Steels			Alloy Steels	Die Steels	Stainless Steels			Cast Iron	Aluminum		Nickel Alloy	Titanium	Hardened Steels			
	Low	Med.	High	4140		300	400	17-4 PH		6061	Casting	Inconel	6Al4V	~35 HRC	35-45 HRC	45-50 HRC	50-70 HRC
	1010	1018	1035	1045	1065	4340				7075			(30 HRC)				
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good best

