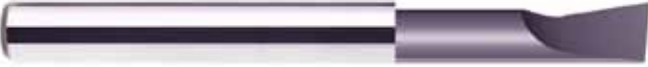


**Solid Carbide Helical Boring Bar
Without Flat
AlTiN / Uncoated**



Design Specs

- Made with premium submicron grade carbide
- AlTiN Coated - Other upon request
- Positive high shear tool design reduces cutting force
- No tip radius
- Special Modifications/Lengths upon request

Application:

- Great for boring all types of material

Helical Boring Bar Without Flat

Min Hole	Max Hole	Shank	OAL	Part Number	EDP#	Uncoated Price	Part Number	EDP#	Coated Price
0.025	0.093	0.125	1.5	HBNF-025093	53000	\$22.04	HBNF-025093C	53000C	\$25.78
0.027	0.125	0.125	1.5	HBNF-027125	53002	\$22.66	HBNF-027125C	53002C	\$26.40
0.031	0.156	0.125	1.5	HBNF-031156	53004	\$22.66	HBNF-031156C	53004C	\$26.40
0.031	0.187	0.125	1.5	HBNF-031187	53006	\$22.66	HBNF-031187C	53006C	\$26.40
0.036	0.156	0.125	1.5	HBNF-036156	53008	\$22.66	HBNF-036156C	53008C	\$26.40
0.036	0.250	0.125	1.5	HBNF-036250	53010	\$22.66	HBNF-036250C	53010C	\$26.40
0.042	0.250	0.125	1.5	HBNF-042250	53012	\$21.07	HBNF-042250C	53012C	\$24.81
0.042	0.312	0.125	1.5	HBNF-042312	53014	\$21.07	HBNF-042312C	53014C	\$24.81
0.052	0.312	0.125	1.5	HBNF-052312	53016	\$21.07	HBNF-052312C	53016C	\$24.81
0.057	0.312	0.125	1.5	HBNF-057312	53018	\$21.07	HBNF-057312C	53018C	\$24.81
0.060	0.375	0.125	1.5	HBNF-060375	53020	\$21.07	HBNF-060375C	53020C	\$24.81
0.060	0.500	0.125	1.5	HBNF-060500	53022	\$21.36	HBNF-060500C	53022C	\$25.15
0.070	0.437	0.125	1.5	HBNF-070437	53024	\$21.36	HBNF-070437C	53024C	\$25.15
0.080	0.500	0.125	1.5	HBNF-080500	53026	\$21.36	HBNF-080500C	53026C	\$25.15
0.085	0.500	0.125	1.5	HBNF-085500	53028	\$21.36	HBNF-085500C	53028C	\$25.15
0.090	0.500	0.125	1.5	HBNF-090500	53030	\$21.36	HBNF-090500C	53030C	\$25.15
0.090	0.625	0.125	1.5	HBNF-090625	53032	\$23.91	HBNF-090625C	53032C	\$27.65
0.100	0.562	0.125	1.5	HBNF-100562	53034	\$21.36	HBNF-100562C	53034C	\$25.15
0.100	0.625	0.125	2	HBNF-100625	53036	\$23.91	HBNF-100625C	53036C	\$27.65
0.110	0.562	0.125	1.5	HBNF-110562	53038	\$21.36	HBNF-110562C	53038C	\$25.15
0.110	0.625	0.125	2	HBNF-110625	53040	\$23.91	HBNF-110625C	53040C	\$27.65
0.120	0.625	0.125	1.5	HBNF-12062515	53042	\$21.36	HBNF-12062515C	53042C	\$25.15
0.120	0.625	0.125	2	HBNF-12062520	53044	\$23.91	HBNF-12062520C	53044C	\$27.65

*Non-standard requirements are available upon request including length, chamfer and radius with different tolerances

Shank Diameter $-.0001/-0.003$	Tool Radius
Min Bore Diameter $+.000/-0.005$	1/8" Shank $.003/-0.005$
Max Bore Diameter $+.050/-0.000$	3/16" to 1/2" Shanks $.005/-0.008$
Overall Length $\pm .0156$	