

FRACTIONAL

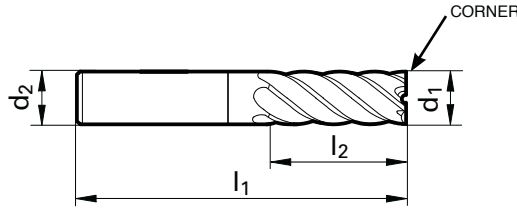
Finish-Tech 50 GH100 U

nano-Si[®] coated, 6-flute

Includes Series
INCH
3084



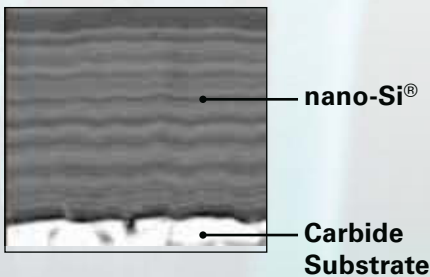
TYPE	NH
HELIX ANGLE	45°
NUMBER of TEETH	6/8



d₁ tolerance h10
d₂ tolerance h6
See table on page 150

Diameter	Shank Diameter	OAL	LOC	Corner		HA	
(d1) mm	(d2) mm	(l1) mm	(l2) mm	Chamfer mm	Flutes	EDP No.	Series Number
1/4	1/4	2 1/2	3/4	0.004	6	9030840063500	3084
5/16	5/16	2 1/2	7/8	0.004	6	9030840079400	3084
3/8	3/8	2 1/2	7/8	0.004	6	9030840095200	3084
1/2	1/2	3	1	0.006	6	9030840127000	3084
5/8	5/8	3 1/2	1 1/4	0.006	6	9030840158700	3084
3/4	3/4	4	1 1/2	0.006	8	9030840190500	3084

ULTRA-HARD COATING! **NEW!** **nano-Si[®]**



Guhring's coatings research department has developed a new nano multi-layer coating for nickel base materials and hardened materials that require high surface hardness coatings. Called nano-Si[®], this TiAlSiN (titanium aluminum silicon nitride) based coating is designed to yield similar performance to diamond-like coatings without the restrictions on the host base material substrate. With a hardness value of 5,500 (HV 0.05), nano-Si[®] stands up to the most abrasive applications. The oxidation, or maximum useful operating temperature, is over 1,470° F, which is similar to high temperature coatings such as FIREX[®] or TiAlN.

Test results in milling inconel have shown a 35% increase in tool life compared to a comparable TiAlN based multi-layer coating using the same operating parameters. Similar results were found when machining cast iron and hardened steels over 52HRc.

No other coating can provide this high hardness property while still retaining the toughness required in drilling and milling applications.