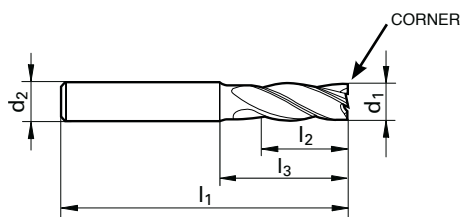
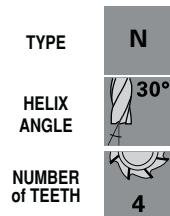
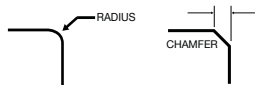


FRACTIONAL

# Uni-Pro 4-flute



$d_1$  tolerance h10  
 $d_2$  tolerance h6  
 See table on page 150



Includes Series	
INCH	
3089	
3090	
3093	
3150	
3151	
3152	
3153	
3155	
3156	
3850	
3851	
3852	

Diameter	Shank Diameter	OAL	LOC	Corner		Flutes	HA		HA		HA	
				Radius Inch	Chamfer Inch		EDP No. Bright Finish	Series	EDP No. FIREX® Coated	Series	EDP No. Super-A Coated	Series
1/16	1/8	1 1/2	3/16		0.001	4	9031500015900	3150	9031530015900	3153	9038500015900	3850
1/16	1/8	2	1/8		0.001	4			9030930015900	3093		
5/64	1/8	1 1/2	1/4		0.001	4	9031500019800	3150	9031530019800	3153		
3/32	1/8	1 1/2	9/32		0.002	4	9031500023800	3150	9031530023800	3153	9038500023800	3850
7/64	1/8	1 1/2	3/8		0.002	4	9031500027800	3150	9031530027800	3153		
1/8	1/8	1 1/2	3/8		0.002	4	9031500031700	3150	9031530031700	3153	9038500031700	3850
1/8	1/8	1 1/2	3/8	0.015		4			9030890031720	3089		
1/8	1/8	1 1/2	3/8	0.031		4			9030890031740	3089		
1/8	1/8	2	1/4		0.002	4			9030930031700	3093		
1/8	1/8	2	1/2		0.002	4	9031520031700	3152	9031560031700	3156	9038520031700	3852
9/64	3/16	2	1/2		0.002	4	9031500035700	3150	9031530035700	3153		
5/32	3/16	2	1/2		0.002	4	9031500039700	3150	9031530039700	3153	9038500039700	3850
11/64	3/16	2	5/8		0.002	4	9031500043700	3150	9031530043700	3153		
3/16	3/16	2	3/8		0.002	4			9030930047600	3093		
3/16	3/16	2	5/8	0.015		4			9030890047620	3089		
3/16	3/16	2	5/8	0.031		4			9030890047640	3089		
3/16	3/16	2	5/8	0.062		4			9030890047660	3089		
3/16	3/16	2	5/8		0.002	4	9031500047600	3150	9031530047600	3153	9038500047600	3850
3/16	3/16	2 1/2	3/4		0.002	4	9031520047600	3152	9031560047600	3156	9038520047600	3852
3/16	3/16	3	1 1/4		0.002	4	9031510047600	3151	9031550047600	3155	9038510047600	3851
13/64	1/4	2 1/2	5/8		0.002	4	9031500051600	3150	9031530051600	3153		
7/32	1/4	2 1/2	5/8		0.002	4	9031500055600	3150	9031530055600	3153	9038500055600	3850
15/64	1/4	2 1/2	3/4		0.002	4	9031500059500	3150	9031530059500	3153		
1/4	1/4	2	1/2		0.004	4			9030930063500	3093		
1/4	1/4	2 1/2	3/4	0.015		4			9030890063520	3089		
1/4	1/4	2 1/2	3/4	0.031		4			9030890063540	3089		
1/4	1/4	2 1/2	3/4	0.062		4			9030890063560	3089		
1/4	1/4	2 1/2	3/4		0.004	4	9031500063500	3150	9031530063500	3153	9038500063500	3850
1/4	1/4	3	1 1/8		0.004	4	9031520063500	3152	9031560063500	3156	9038520063500	3852
1/4	1/4	4	1 5/8	0.015		4			9030900063520	3090		
1/4	1/4	4	1 5/8	0.031		4			9030900063540	3090		
1/4	1/4	4	1 5/8	0.062		4			9030900063560	3090		
1/4	1/4	4	1 5/8		0.004	4	9031510063500	3151	9031550063500	3155	9038510063500	3851
17/64	5/16	2 1/2	3/4		0.004	4	9031500067500	3150	9031530067500	3153		
9/32	5/16	2 1/2	3/4		0.004	4	9031500071400	3150	9031530071400	3153	9038500071400	3850
19/64	5/16	2 1/2	13/16		0.004	4	9031500075400	3150	9031530075400	3153		
5/16	5/16	2	1/2		0.004	4			9030930079400	3093		
5/16	5/16	2 1/2	13/16		0.004	4	9031500079400	3150	9031530079400	3153	9038500079400	3850
5/16	5/16	2 1/2	13/16	0.015		4			9030890079420	3089		

Continued on next page