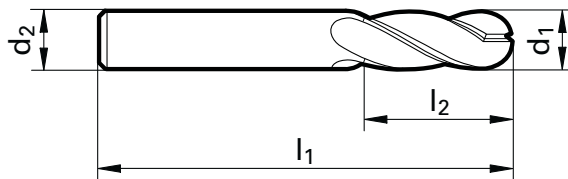


FRACTIONAL

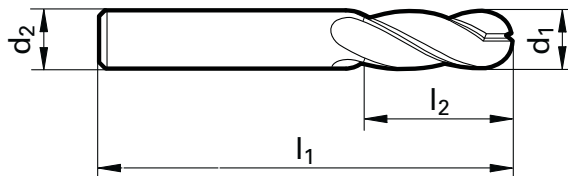
# Uni-Pro 4-flute

Ball nose



Diameter	Shank Diameter	OAL	LOC	HA		HA		HA	
(d1) Frac	(d2) Frac	(l1) Frac	(l2) Frac	EDP No. Bright Finish	Series Number	EDP No. FIREX® Coated	Series Number	EDP No. Super-A Coated	Series Number
1/2	1/2	4 1/2	2	90 3164 012 7000	3164	90 3167 012 7000	3167	9038640127000	3864
1/2	1/2	6	3	90 3162 012 7000	3162	90 3166 012 7000	3166	9038620127000	3862
9/16	9/16	3 1/2	1 1/8	90 3161 014 2900	3161	90 3165 014 2900	3165	9038610142900	3861
5/8	5/8	3 1/2	1 1/4	90 3161 015 8700	3161	90 3165 015 8700	3165	9038610158700	3861
5/8	5/8	5	2 1/4	90 3164 015 8700	3164	90 3167 015 8700	3167	9038640158700	3864
5/8	5/8	6	3	90 3162 015 8700	3162	90 3166 015 8700	3166	9038620158700	3862
3/4	3/4	4	1 1/2	90 3161 019 0500	3161	90 3165 019 0500	3165	9038610190500	3861
3/4	3/4	5	2 1/4	90 3164 019 0500	3164	90 3167 019 0500	3167	9038640190500	3864
3/4	3/4	6	3	90 3162 019 0500	3162	90 3166 019 0500	3166	9038620190500	3862
1	1	4	1 1/2	90 3161 025 4000	3161	90 3165 025 4000	3165		

METRIC



Diameter	Shank Diameter	OAL	LOC	Reach	HA		HA	
(d1) mm	(d2) mm	(l1) mm	(l2) mm	*(l3) mm	EDP No. Bright Finish	Series Number	EDP No. FIREX® Coated	Series Number
3.0	3.0	75	20		90 3015 003 0000	3015	90 3043 003 0000	3043
4.0	4.0	50	11		90 3306 004 0000	3306	90 3727 004 0000	3727
4.0	4.0	75	25		90 3015 004 0000	3015	90 3043 004 0000	3043
5.0	5.0	50	13		90 3306 005 0000	3306	90 3727 005 0000	3727
5.0	5.0	75	30		90 3015 005 0000	3015	90 3043 005 0000	3043
6.0	6.0	57	13		90 3306 006 0000	3306	90 3727 006 0000	3727
6.0	6.0	75	30		90 3015 006 0000	3015	90 3043 006 0000	3043
8.0	8.0	63	19		90 3306 008 0000	3306	90 3727 008 0000	3727
8.0	8.0	100	40		90 3015 008 0000	3015	90 3043 008 0000	3043
10.0	10.0	72	22		90 3306 010 0000	3306	90 3727 010 0000	3727
10.0	10.0	100	40		90 3015 010 0000	3015	90 3043 010 0000	3043
12.0	12.0	83	26		90 3306 012 0000	3306	90 3727 012 0000	3727
12.0	12.0	150	45		90 3015 012 0000	3015	90 3043 012 0000	3043
14.0	14.0	83	26		90 3306 014 0000	3306	90 3727 014 0000	3727
16.0	16.0	92	32		90 3306 016 0000	3306	90 3727 016 0000	3727
18.0	18.0	92	32		90 3306 018 0000	3306	90 3727 018 0000	3727
20.0	20.0	104	38		90 3306 020 0000	3306	90 3727 020 0000	3727

\* Indicates reduced neck style

Includes Series
METRIC
3015
3043
3306
3727