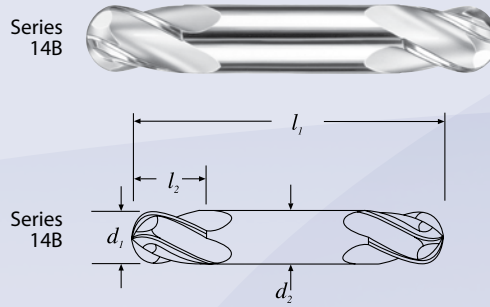


4 Flute – Double End – Ball End

Fractional Series

14B



TOLERANCES

$d_1 = +.000 - .002$
 $d_2 = -.0001 - .0004$

Series 14B • 14MB



End Mills – Double End – Ball End
Micrograin Solid Carbide – 4 Flute –
30° Right Hand Spiral – Right Hand
Cutting – Center Cutting
* With Flat

Serie 14B • 14MB



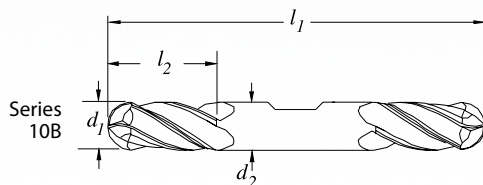
Fresas Frontales – Doble punta –
Punta radial o esférica – Carburo
sólido con micrograno – 4 filos
– Hélice a derecha 30° – Corte a
derecha – Corte al centro
* Con en el Mango

Série 14B • 14MB



Fraises – Tailée aux 2 bouts –
Bout hémisphérique – Carbure
monobloc, micrograin – 4 dents –
Hélice à droite, 30° – Coupe à droite
– Coupe au centre
* Avec Méplat

Cutting Diameter d_1	Length of Cut l_2	Overall Length l_1	Shank Diameter d_2	Uncoated EDP No.	Ti-NAMITE (TiN) EDP No.	Ti-NAMITE-C (TiCN) EDP No.	Ti-NAMITE-A (AlTiN) EDP No.	Series Number
1/32	1/16	1-1/2	1/8	31402	31442	39602	31218	14B
3/64	3/32	1-1/2	1/8	31404	31444	39604	31219	14B
1/16	1/8	1-1/2	1/8	31406	31446	39606	31220	14B
5/64	1/8	1-1/2	1/8	31408	31448	39608	31221	14B
3/32	3/16	1-1/2	1/8	31410	31450	39610	31222	14B
7/64	3/16	1-1/2	1/8	31412	31452	39612	31223	14B
1/8	1/4	1-1/2	1/8	31414	31454	39614	31224	14B
*1/8	3/8	3-1/16	3/8	31002	30979	30990	31023	10B
9/64	5/16	2	3/16	31416	31456	39616	31225	14B
5/32	5/16	2	3/16	31418	31458	39618	31226	14B
*5/32	7/16	3-1/8	3/8	31004	30980	30991	31024	10B
11/64	5/16	2	3/16	31420	31460	39620	31227	14B
3/16	3/8	2	3/16	31422	31462	39622	31228	14B
*3/16	1/2	3-1/4	3/8	31006	30981	30992	31025	10B
13/64	1/2	2-1/2	1/4	31424	31464	39624	31229	14B
7/32	1/2	2-1/2	1/4	31426	31466	39626	31230	14B
*7/32	9/16	3-3/8	3/8	31008	30982	30993	31026	10B
15/64	1/2	2-1/2	1/4	31428	31468	39628	31231	14B
1/4	1/2	2-1/2	1/4	31430	31470	39630	31232	14B
*1/4	5/8	3-3/8	3/8	31010	30983	30994	31027	10B
9/32	1/2	2-1/2	5/16	31432	31472	39632	31233	14B
*9/32	11/16	3-3/8	3/8	31012	30984	30995	31028	10B
5/16	1/2	2-1/2	5/16	31434	31474	39634	31234	14B
*5/16	3/4	3-1/2	3/8	31014	30985	30996	31029	10B
*11/32	3/4	3-1/2	3/8	31016	30986	30997	31030	10B
3/8	9/16	2-1/2	3/8	31436	31476	39636	31235	14B
*3/8	3/4	3-1/2	3/8	31018	30987	30998	31031	10B
7/16	9/16	2-3/4	7/16	31438	31478	39638	31236	14B
*7/16	7/8	4	1/2	31020	30988	30999	31032	10B
1/2	5/8	3	1/2	31440	31480	39640	31237	14B
*1/2	1	4	1/2	31022	30989	31000	31033	10B

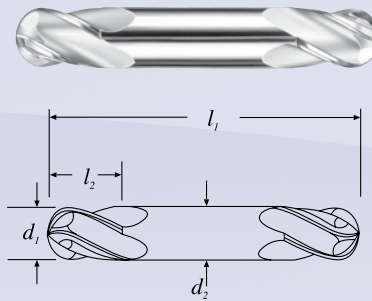


Series 10B



TOLERANCES

$d_1 = +0,000 - 0,05$
 $d_2 = +0,000 - 0,01$



Cutting Diameter d_1 mm	Length of Cut l_2 mm	Overall Length l_1 mm	Shank Diameter d_2 mm	Uncoated EDP No.	Ti-NAMITE (TiN) EDP No.	Ti-NAMITE-C (TiCN) EDP No.	Ti-NAMITE-A (AlTiN) EDP No.	Series Number
1	2	38	3	41406	48947	48968	48989	14MB
1,5	3	38	3	41410	48948	48969	48990	14MB
2	4	38	3	41414	48949	48970	48991	14MB
2,5	5	38	3	41418	48950	48971	48992	14MB
3	6	38	3	41422	48951	48972	48993	14MB
3,5	7	50	4	41426	48952	48973	48994	14MB
4	8	50	4	41430	48953	48974	48995	14MB
4,5	9,5	63	4,5	41434	48954	48975	48996	14MB
5	10	63	5	41438	48955	48976	48997	14MB
6	12	63	6	41442	48956	48977	48998	14MB
7	12	63	8	41446	48957	48978	48999	14MB
8	12	63	8	41450	48958	48979	49000	14MB
9	14	75	9	41454	48959	48980	49001	14MB
10	14	75	10	41458	48960	48981	49002	14MB
11	14	75	12	41462	48961	48982	49003	14MB
12	16	75	12	41466	48962	48983	49004	14MB

