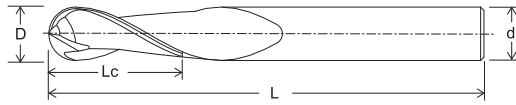


High Performance End Mill

Sub Micro Grain Carbide

Series HP416

Ball End, Inch Sizes, 2 Flute



Tolerances		
Size	Cutting Dia.	Shank Dia. *
Up to + incl. 1/8"	+0.000" -0.010"	+0.000" -0.003"
over 1/8"	+0.000" -0.015"	+0.000" -0.003"

*Comparable to h6 tolerance

EDP Number	Mill Diameter	OAL	Length of Cut	Shank Diameter
	D	L	Lc	d
HP416-0312	1/32	2-1/2	1/16	1/4
HP416-0625	1/16	2-1/2	1/8	1/4
HP416-0938	3/32	2-1/2	3/16	1/4
HP416-1250	1/8	3	1/4	1/4
HP416-1875	3/16	3	3/8	1/4

EDP Number	Mill Diameter	OAL	Length of Cut	Shank Diameter
	D	L	Lc	d
HP416-2500	1/4	3	1/2	1/4
HP416-3125	5/16	4	5/8	5/16
HP416-3750	3/8	4	3/4	3/8
HP416-5000	1/2	4	1	1/2

Packed: 1 pc. Available TiAlN finish only.

Series HP416

Ball End, Metric Sizes, 2 Flute



Tolerances		
Size	Cutting Dia.	Shank Dia. *
up to + incl. 3mm	+0.000mm -0.025mm	+0.000mm -0.006mm
over 3mm	+0.000mm -0.038mm	+0.000mm -0.008mm

*Comparable to h6 tolerance

EDP Number	Mill Diameter	OAL	Length of Cut	Shank Diameter
	D	L	Lc	d
HP416-0394	1	50	2.5	4
HP416-0472	1.2	50	3	4
HP416-0551	1.4	50	3.5	4
HP416-0591	1.5	50	4	4
HP416-0630	1.6	50	4	4
HP416-0709	1.8	50	4.5	4
HP416-0787	2	50	5	6
HP416-0984	2.5	60	6	6
HP416-1181	3	60	8	6
HP416-1378	3.5	70	8	6
HP416-1575	4	70	8	6
HP416-1576	4	60	8	4
HP416-1772	4.5	80	10	6
HP416-1969	5	80	10	6
HP416-2165	5.5	90	12	6
HP416-2362	6	90	12	6
HP416-2559	6.5	90	14	6

EDP Number	Mill Diameter	OAL	Length of Cut	Shank Diameter
	D	L	Lc	d
HP416-2756	7	90	14	6
HP416-2953	7.5	90	14	6
HP416-3150	8	100	14	8
HP416-3346	8.5	100	18	8
HP416-3543	9	100	18	8
HP416-3740	9.5	100	18	8
HP416-3937	10	100	18	10
HP416-4331	11	100	22	10
HP416-4724	12	110	22	12
HP416-5118	13	110	26	12
HP416-5512	14	110	26	12
HP416-5906	15	110	30	12
HP416-6299	16	140	30	16
HP416-7087	18	140	34	16
HP416-7874	20	160	38	20
HP416-9843	25	180	50	25

Packed: 1 pc. Available TiAlN finish only.

HP Ball End

Work Material

Series No.	Aluminum		Cast Iron	Low Carbon Steel	Med. Carbon Steel	High Carbon Steel	Alloy Steel	Die Steels	Titanium	High Nickel Alloy	Stainless Steels			Hardened Steels		
	6061, 7075	Castings		1010, 1018	1035, 1045	1065	4140, 4340	20 Hrc	6AL4V (30Hrc)	Inconel	300	400	17-4PH	-35 Hrc	35-45 Hrc	45-50 Hrc
HP416			○	○	○	○	○	○					○	○	○	

○ Recommended