

NEW PRODUCT NEWS

APEX MILL



The Economical Solid Carbide Line



APEXMILL

The Economical solid carbide line

FEATURES

- **Economic solution for general machining**
- **Capable of small D.O.C. on all materials**
- **Optimized coating grade**
 - Flat type: TT5525
 - Ball type: TT5515
- **Higher productivity and stable machining due to high rigidity design**

Now available from TaeguTec, an economical solid carbide end mill line for general purpose machining specifically engineered to machine on small depth-of-cut applications.

The APEXMILL economical type comes in 2 flute and 4 flute flat end mills—EFE 2/4...—in various overall lengths to cover a wide roughing and finishing application range. It is also available in 3 flute flat end mills—EFE 3...—including a high helix angle specifically adept in slotting applications.

The 2 flute ball nose end mill—EBE 2...—available in short and medium types are a more cost effective solution for semi-finishing and finishing applications.

TaeguTec's APEXMILL economical type comes in a diameter range from 3.0-20 mm while optimized grades are applied to the end mill type; the TT5525 grade for flat types and TT5515 grade for ball nose types.

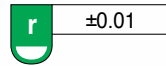
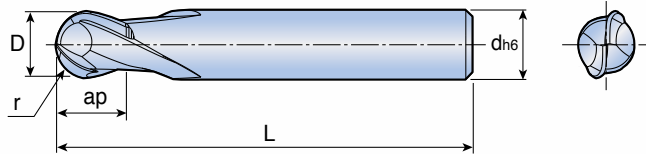
The new solid carbide end mills provide customers high productivity and economical solutions.

EBE 2...S

2 Flute Short Ball - Economical Type



- General Purpose
- Pre-hardened Steels, Tool Steels,
Alloy Steels, Carbon Steels
- Hardness < 45 HRC



D	Tolerance	D	Tolerance
≤ 3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

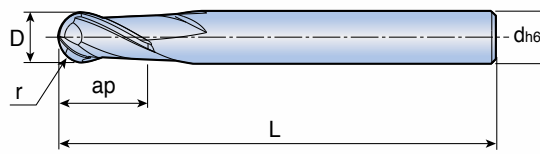
Designation	Dimension (mm)					Grade
	D	r	L	a _p	d	
EBE 2030S	3	1.5	38	4	3	●
2040S	4	2.0	40	6	4	●
2060S	6	3.0	54	7	6	●
2080S	8	4.0	58	9	8	●
2100S	10	5.0	66	10	10	●
2120S	12	6.0	70	14	12	●
2140S	14	7.0	75	14	14	●
2160S	16	8.0	75	16	16	●
2180S	18	9.0	84	18	18	●
2200S	20	10.0	92	20	20	●

• Refer to recommended cutting conditions in the catalog

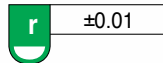
●: Standard Item

EBE 2...M

2 Flute Medium Ball - Economical Type



- General Purpose
- Pre-hardened Steels, Tool Steels,
Alloy Steels, Carbon Steels
- Hardness < 45 HRC



D	Tolerance
≤ 3	0- -0.040
3 < D ≤ 6	0- -0.048
6 < D ≤ 10	0- -0.058

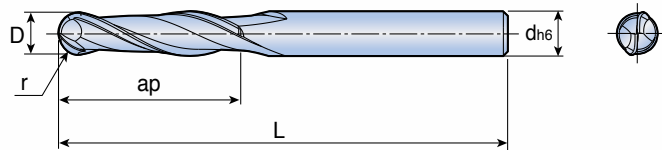
D	Tolerance
10 < D ≤ 18	0- -0.070
18 < D ≤ 30	0- -0.084

Designation	Dimension (mm)					Grade
	D	r	L	ap	d	
EBE 2030M	3	1.5	50	7	3	●
2040M	4	2.0	50	8	4	●
2060M	6	3.0	54	10	6	●
2080M	8	4.0	63	16	8	●
2100M	10	5.0	72	19	10	●
2120M	12	6.0	83	22	12	●
2140M	14	7.0	83	22	14	●
2160M	16	8.0	92	26	16	●
2180M	18	9.0	92	26	18	●
2200M	20	10.0	100	32	20	●

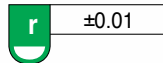
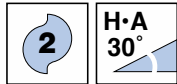
●: Standard Item

EBE 2...L

2 Flute Long Ball - Economical Type



- General Purpose
- Pre-hardened Steels, Tool Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



D	Tolerance
≤3	0- -0.040
3< D ≤6	0- -0.048
6< D ≤10	0- -0.058

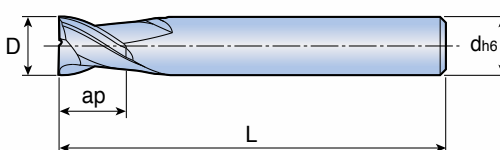
D	Tolerance
10< D ≤18	0- -0.070
18< D ≤30	0- -0.084

Designation	Dimension (mm)					Grade
	D	r	L	ap	d	
EBE 2030L	3	1.5	75	20	3	●
2040L	4	2.0	75	20	4	●
2050L	5	2.5	75	25	5	●
2060L	6	3.0	80	25	6	●
2080L	8	4.0	90	30	8	●
2100L	10	5.0	100	40	10	●
2120L	12	6.0	105	45	12	●
2140L	14	7.0	120	45	14	●
2160L	16	8.0	120	55	16	●
2180L	18	9.0	130	60	18	●
2200L	20	10.0	130	60	20	●

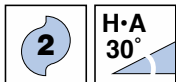
●: Standard Item

EFE 2...S

2 Flute Short Flat - Economical Type



- General Purpose
- Pre-hardened Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



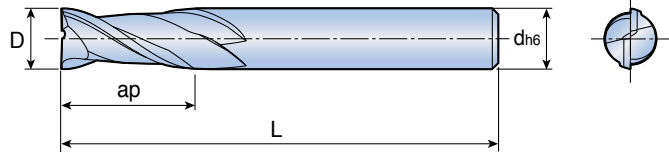
D	Tolerance	D	Tolerance
≤3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

Designation	Dimension (mm)				Grade
	D	L	ap	d	
EFE 2030S	3	38	4	3	●
2040S	4	40	5	4	●
2050S	5	54	6	5	●
2060S	6	54	7	6	●
2080S	8	58	9	8	●
2100S	10	66	11	10	●
2120S	12	70	12	12	●
2140S	14	75	14	14	●
2160S	16	75	16	16	●
2180S	18	84	18	18	●
2200S	20	92	20	20	●

●: Standard Item

EFE 2...M

2 Flute Medium Flat - Economical Type



- General Purpose
- Pre-hardened Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



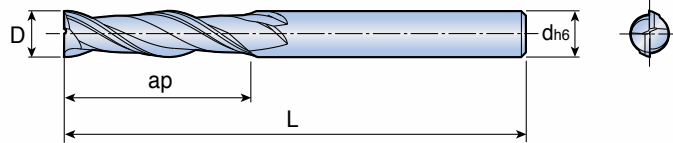
D	Tolerance	D	Tolerance
≤3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

Designation	Dimension (mm)				Grade
	D	L	ap	d	
EFE 2030M	3	50	12	3	●
2040M	4	50	12	4	●
2050M	5	54	14	5	●
2060M	6	54	16	6	●
2070M	7	60	20	7	●
2080M	8	63	20	8	●
2090M	9	66	20	9	●
2100M	10	72	22	10	●
2120M	12	75	22	12	●
2140M	14	75	22	14	●
2160M	16	82	25	16	●
2180M	18	92	26	18	●
2200M	20	100	32	20	●

●: Standard Item

EFE 2...L

2 Flute Long Flat - Economical Type



- General Purpose
- Pre-hardened Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



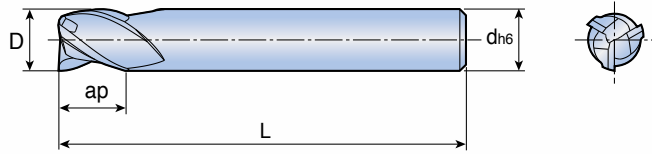
D	Tolerance	D	Tolerance
≤3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

Designation	Dimension (mm)				Grade
	D	L	ap	d	TT5525
EFE 2030L	3	75	20	3	●
2040L	4	75	20	4	●
2050L	5	75	25	5	●
2060L	6	80	25	6	●
2080L	8	90	30	8	●
2100L	10	100	40	10	●
2120L	12	105	45	12	●
2140L	14	120	45	14	●
2160L	16	120	55	16	●
2180L	18	130	60	18	●
2200L	20	130	60	20	●

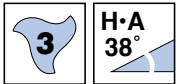
●: Standard Item

EFE 3...S

3 Flute Short Flat - Economical Type



- General Purpose
- Pre-hardened Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



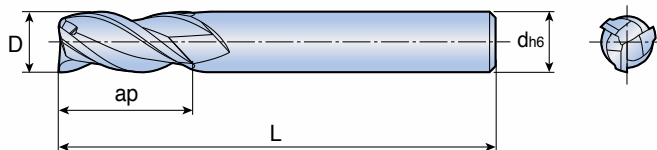
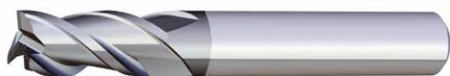
D	Tolerance	D	Tolerance
≤3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

Designation	Dimension (mm)				Grade
	D	L	ap	d	
EFE 3030S	3	38	4	3	●
3040S	4	40	5	4	●
3050S	5	54	6	5	●
3060S	6	54	7	6	●
3080S	8	58	9	8	●
3100S	10	66	11	10	●
3120S	12	70	12	12	●
3140S	14	75	14	14	●
3160S	16	75	16	16	●
3180S	18	84	18	18	●
3200S	20	92	20	20	●

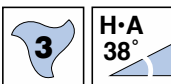
●: Standard Item

EFE 3...M

3 Flute Medium Flat - Economical Type



- General Purpose
- Pre-hardened Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



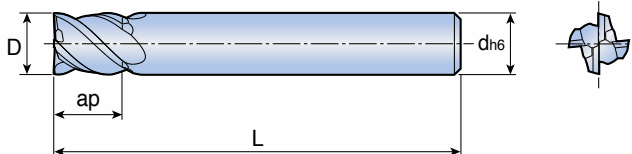
D	Tolerance	D	Tolerance
≤3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

Designation	Dimension (mm)				Grade
	D	L	ap	d	
EFE 3030M	3	50	8	3	●
3040M	4	50	11	4	●
3050M	5	54	13	5	●
3060M	6	54	13	6	●
3080M	8	63	19	8	●
3100M	10	72	22	10	●
3120M	12	75	22	12	●
3140M	14	75	22	14	●
3160M	16	82	26	16	●
3200M	20	100	32	20	●

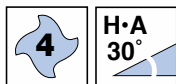
●: Standard Item

EFE 4...S

4 Flute Short Flat - Economical Type



- General Purpose
- Pre-hardened Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



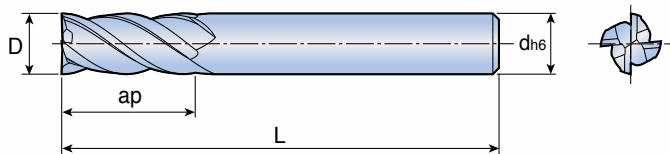
D	Tolerance	D	Tolerance
≤ 3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

Designation	Dimension (mm)				Grade
	D	L	ap	d	
EFE 4030S	3	38	5	3	●
4040S	4	40	8	4	●
4050S	5	54	9	5	●
4060S	6	54	10	6	●
4080S	8	58	12	8	●
4100S	10	66	14	10	●
4120S	12	70	16	12	●
4140S	14	75	18	14	●
4160S	16	75	22	16	●
4180S	18	84	24	18	●
4200S	20	92	26	20	●

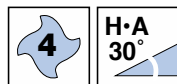
●: Standard Item

EFE 4...M

4 Flute Medium Flat - Economical Type



- General Purpose
- Pre-hardened Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



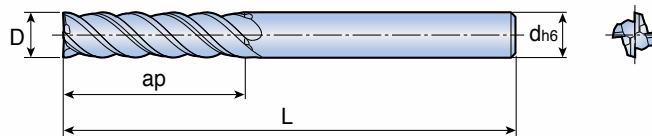
D	Tolerance	D	Tolerance
≤3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

Designation	Dimension (mm)				Grade
	D	L	ap	d	
EFE 4030M	3	50	12	3	●
4040M	4	50	12	4	●
4050M	5	54	14	5	●
4060M	6	54	16	6	●
4070M	7	60	20	7	●
4080M	8	63	20	8	●
4090M	9	66	20	9	●
4100M	10	72	22	10	●
4120M	12	75	22	12	●
4140M	14	75	22	14	●
4160M	16	82	25	16	●
4180M	18	92	26	18	●
4200M	20	100	32	20	●

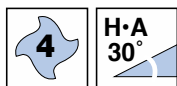
●: Standard Item

EFE 4...L

4 Flute Long Flat - Economical Type



- General Purpose
- Pre-hardened Steels, Alloy Steels, Carbon Steels
- Hardness < 45 HRC



D	Tolerance	D	Tolerance
≤3	0- -0.040	10 < D ≤ 18	0- -0.070
3 < D ≤ 6	0- -0.048	18 < D ≤ 30	0- -0.084
6 < D ≤ 10	0- -0.058		

Designation	Dimension (mm)				Grade TT5525
	D	L	ap	d	
EFE 4030L	3	75	20	3	●
4040L	4	75	20	4	●
4050L	5	75	25	5	●
4060L	6	80	25	6	●
4080L	8	90	30	8	●
4100L	10	100	40	10	●
4120L	12	105	45	12	●
4140L	14	120	45	14	●
4160L	16	120	55	16	●
4180L	18	130	60	18	●
4200L	20	130	60	20	●

●: Standard Item