



Endmills for General & Multi-purpose

STANDARD ENDMILL SERIES

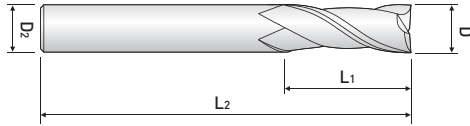


Endmills for General & Multi-purpose _ STANDARD END MILL SERIES

WIDIN

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Endmills for General & Multi-purpose STANDARD END MILL Series



2 FLUTE, REGULAR LENGTH

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials

E302 ...series

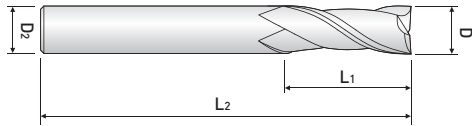


EDP. No.	D	L ₁	L ₂	D ₂
E302010S4	1	3	42	4
E302010				6
E302015S4	1.5	4	42	4
E302015				6
E302020S4	2	6	42	4
E302020				6
E302025S4	2.5	8	42	4
E302025				6
E302030	3	10	50	6
E302035	3.5	10	50	6
E302040	4	12	50	6
E302045	4.5	14	50	6
E302050	5	15	50	6
E302055	5.5	15	50	6
E302060	6	15	50	6
E302065	6.5	18	60	8
E302070	7	20	60	8
E302075	7.5	20	60	8
E302080	8	20	60	8
E302085	8.5	23	70	10
E302090	9	25	70	10
E302095	9.5	25	70	10
E302100	10	25	70	10
E302105	10.5	28	75	12
E302110	11	30	75	12

※ Please reduce cutting speed around 20~30%

NEXT >>>

Endmills for General & Multi-purpose STANDARD END MILL Series



2 FLUTE, REGULAR LENGTH

- Designed to machine tool steel, alloy steel, mold steel and other high hardened materials



FINE GRAIN



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E302 ...series

EDP. No.	D	L ₁	L ₂	D ₂
E302115	11.5	30	75	12
E302120	12	30	75	12
E302130	13	35	85	14
E302130S16			90	16
E302140	14	35	85	14
E302140S16			90	16
E302150	15	40	90	16
E302160	16	40	90	16
E302180	18	45	100	18
E302200	20	45	100	20
E302250	25	50	120	25

※ Please reduce cutting speed around 20~30%

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels (NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRC55 SKD61	~HRC55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

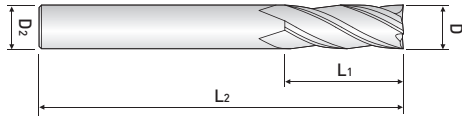
■ Tolerance

Tolerance	Dia.	mm = 1/1000mm				
		φ 1~φ 3	φ 3~φ 6	φ 6~φ 10	φ 10~φ 18	φ 18~φ 30
Cutting Edge(h10)		0	0	0	0	0
		-40	-48	-58	-70	-84
Shank(h6)		0	0	0	0	0
		-6	-8	-9	-11	-13

Endmills for General & Multi-purpose STANDARD END MILL Series



4 FLUTE, REGULAR LENGTH



E304 ...series



EDP. No.	D	L ₁	L ₂	D ₂
E304020S4	2	6	42	4
E304020				6
E304025	2.5	8	42	6
E304030	3	10	50	6
E304035	3.5	10	50	6
E304040	4	12	50	6
E304045	4.5	14	50	6
E304050	5	15	50	6
E304055	5.5	15	50	6
E304060	6	15	50	6
E304065	6.5	18	60	8
E304070	7	20	60	8
E304075	7.5	20	60	8
E304080	8	20	60	8
E304085	8.5	23	70	10
E304090	9	25	70	10
E304095	9.5	25	70	10
E304100	10	25	70	10
E304105	10.5	28	75	12
E304110	11	30	75	12
E304115	11.5	30	75	12
E304120	12	30	75	12
E304130	13	35	85	14
E304130S16			90	16
E304140	14	35	85	14
E304140S16			90	16
E304150	15	40	90	16
E304160	16	40	90	16
E304180	18	45	100	18
E304200	20	45	100	20
E304250	25	50	120	25

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SOM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRc30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

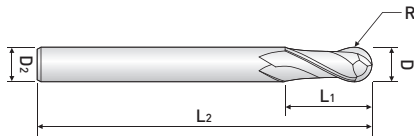
■ Tolerance

Tolerance	Dia.	$\mu\text{m} = 1/1000\text{mm}$				
		$\phi 1 \sim \phi 3$	$\phi 3 \sim \phi 6$	$\phi 6 \sim \phi 10$	$\phi 10 \sim \phi 18$	$\phi 18 \sim \phi 30$
Cutting Edge(h10)	0	0	0	0	0	0
	-40	-48	-58	-70	-84	
Shank(h6)	0	0	0	0	0	0
	-6	-8	-9	-11	-13	

Endmills for General & Multi-purpose STANDARD END MILL Series



2 FLUTE, BALL NOSE LONG LENGTH



B302 ...series



EDP. No.	D	R	L ₁	L ₂	D ₂
B302010	1	0.5	3	50	6
B302015	1.5	0.75	4	50	6
B302020	2	1	6	60	6
B302025	2.5	1.25	6	60	6
B302030	3	1.5	8	70	6
B302035	3.5	1.75	8	70	6
B302040	4	2	8	70	6
B302045	4.5	2.25	10	70	6
B302050	5	2.5	12	80	6
B302055	5.5	2.75	12	80	6
B302060	6	3	12	90	6
B302065	6.5	3.25	12	90	8
B302070	7	3.5	20	90	8
B302080	8	4	20	100	8
B302090	9	4.5	25	100	10
B302100	10	5	25	100	10
B302110	11	5.5	30	110	12
B302120	12	6	30	110	12
B302130	13	6.5	35	120	14
B302140	14	7	35	120	14
B302150	15	7.5	40	140	16
B302160	16	8	40	140	16
B302180	18	9	45	150	18
B302200	20	10	45	160	20
B302250	25	12.5	50	180	25

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRC55 SKD61	~HRC55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

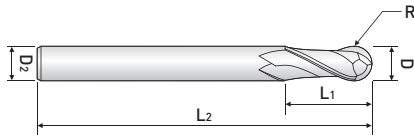
■ Tolerance

Tolerance	Dia.	μm = 1/1000mm				
		φ 1~φ 3	φ 3~φ 6	φ 6~φ 10	φ 10~φ 18	φ 18~φ 30
Cutting Edge(h10)		0	0	0	0	0
		-40	-48	-58	-70	-84
Shank(h6)		0	0	0	0	0
		-6	-8	-9	-11	-13

Endmills for General & Multi-purpose STANDARD END MILL Series



2 FLUTE, BALL NOSE EXTRA LONG LENGTH



BL422 ...series



FINE GRAIN



HELIX



p.1007

EDP. No.	D	R	L ₁	L ₂	D ₂
BL422030	3	1.5	30	75	3
BL422040	4	2	30	75	4
BL422050	5	2.5	40	100	5
BL422060	6	3	50	150	6
BL422080	8	4	50	150	8
BL422100	10	5	60	150	10
BL422120	12	6	75	150	12
BL422140	14	7	75	150	14
BL422160	16	8	75	150	16
BL422180	18	9	75	150	18
BL422200	20	10	75	150	20

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~ HB225	Alloy Steels (SCM, SK...) HB22 ~ 325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

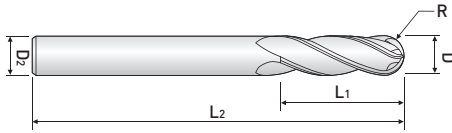
■ Tolerance

Tolerance	Dia.	μm = 1/1000mm				
		φ 1~φ 3	φ 3~φ 6	φ 6~φ 10	φ 10~φ 18	φ 18~φ 30
Cutting Edge(h10)	0	0	0	0	0	0
	-40	-48	-58	-70	-84	
Shank(h6)	0	0	0	0	0	0
	-6	-8	-9	-11	-13	

Endmills for General & Multi-purpose STANDARD END MILL Series



4 FLUTE, BALL NOSE LONG LENGTH



B304 ...series



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EDP. No.	D	R	L ₁	L ₂	D ₂
B304030	3	1.5	8	70	6
B304040	4	2	8	70	6
B304050	5	2.5	12	80	6
B304060	6	3	12	90	6
B304070	7	3.5	20	90	8
B304080	8	4	20	100	8
B304090	9	4.5	25	100	10
B304100	10	5	25	100	10
B304110	11	5.5	30	110	12
B304120	12	6	30	110	12
B304130	13	6.5	35	120	14
B304140	14	7	35	120	14
B304150	15	7.5	40	140	16
B304160	16	8	40	140	16
B304180	18	9	45	150	18
B304200	20	10	45	160	20
B304250	25	12.5	50	180	25

■ Applicable Working Material

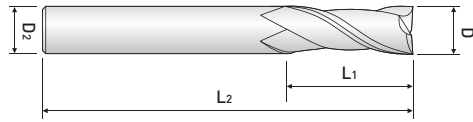
Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SOM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRc30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

■ Tolerance

Tolerance	Dia.	μm = 1/1000mm				
		φ 1~φ 3	φ 3~φ 6	φ 6~φ 10	φ 10~φ 18	φ 18~φ 30
Cutting Edge(h10)		0	0	0	0	0
		-40	-48	-58	-70	-84
Shank(h6)		0	0	0	0	0
		-6	-8	-9	-11	-13

Endmills for General & Multi-purpose STANDARD END MILL Series



2 FLUTE, LONG LENGTH

E322 ...series



EDP. No.	D	L ₁	L ₂	D ₂
E322030	3	25	75	6
E322040	4	25	75	6
E322050	5	30	85	6
E322060	6	30	85	6
E322070	7	35	85	8
E322080	8	35	85	8
E322090	9	45	100	10
E322100	10	45	100	10
E322101		60	155	
E322120	12	55	120	12
E322121		65	155	
E322140	14	60	120	14
E322160	16	60	120	16
E322161		75	165	
E322180	18	60	120	18
E322200	20	60	120	20
E322201		75	165	

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SOM, SK...) HB22 ~325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

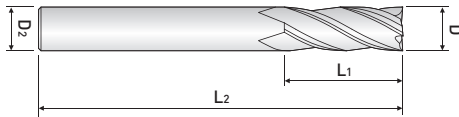
■ Tolerance

Tolerance	Dia.	μm = 1/1000mm				
		φ 1~φ 3	φ 3~φ 6	φ 6~φ 10	φ 10~φ 18	φ 18~φ 30
Cutting Edge(h10)	0	0	0	0	0	0
	-40	-48	-58	-70	-84	
Shank(h6)	0	0	0	0	0	0
	-6	-8	-9	-11	-13	

Endmills for General & Multi-purpose STANDARD END MILL Series



4 FLUTE, LONG LENGTH



E324 ...series



EDP. No.	D	L ₁	L ₂	D ₂
E324030	3	25	75	6
E324040	4	25	75	6
E324050	5	30	85	6
E324060	6	30	85	6
E324070	7	35	85	8
E324080	8	35	85	8
E324090	9	45	100	10
E324100	10	45	100	10
E324101		60	155	
E324120	12	55	120	12
E324121		65	155	
E324140	14	60	120	14
E324160	16	60	120	16
E324161		75	165	
E324180	18	60	120	18
E324200	20	60	120	20
E324201		75	165	

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SOM, SK...) HB22 ~325	Prehardened Steels (NAK...) HRc30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

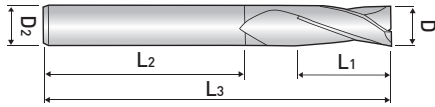
■ Tolerance

Tolerance	Dia.	μm = 1/1000mm				
		φ 1~φ 3	φ 3~φ 6	φ 6~φ 10	φ 10~φ 18	φ 18~φ 30
Cutting Edge(h10)		0	0	0	0	0
		-40	-48	-58	-70	-84
Shank(h6)		0	0	0	0	0
		-6	-8	-9	-11	-13

Endmills for General & Multi-purpose STANDARD END MILL Series



2 FLUTE, REGULAR LENGTH
- BRAZED TYPE



EB302 ...series



EDP. No.	D	L ₁	L ₂	L ₃	D ₂
EB302140	14	28	60	98	16
EB302150	15	28	60	98	16
EB302160	16	28	60	98	16
EB302170	17	32	70	115	20
EB302180	18	32	70	115	20
EB302190	19	32	70	115	20
EB302200	20	32	70	115	20
EB302210	21	32	70	115	20
EB302220	22	32	70	115	20
EB302230	23	40	85	140	25
EB302240	24	40	85	140	25
EB302250	25	40	85	140	25
EB302260	26	40	85	140	25
EB302270	27	40	85	140	25
EB302280	28	40	85	140	25
EB302290	29	50	85	150	32
EB302300	30	50	85	150	32
EB302310	31	50	85	150	32
EB302320	32	50	85	150	32
EB302350	35	50	85	150	32
EB302360	36	50	85	150	32
EB302380	38	55	85	155	32
EB302400	40	55	85	155	32
EB302420	42	55	85	155	32
EB302450	45	63	85	160	32
EB302500	50	63	85	160	32

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

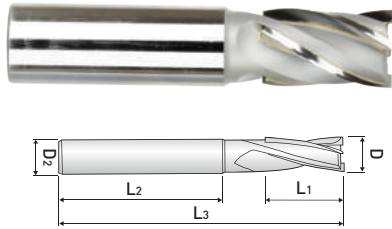
○:General Application ◎:The most suitable Application

■ Tolerance

Mill Dia. (mm)	Shank Dia.
0 ~ -0,05	h7

※:Items can be changed for quality improvement without notice.

Endmills for General & Multi-purpose STANDARD END MILL Series



4 FLUTE, REGULAR LENGTH
- BRAZED TYPE

EB304 ...series



EDP. No.	D	L ₁	L ₂	L ₃	D ₂
EB304140	14	28	60	98	16
EB304150	15	28	60	98	16
EB304160	16	28	60	98	16
EB304170	17	32	70	115	20
EB304180	18	32	70	115	20
EB304190	19	32	70	115	20
EB304200	20	32	70	115	20
EB304210	21	32	70	115	20
EB304220	22	32	70	115	20
EB304230	23	40	85	140	25
EB304240	24	40	85	140	25
EB304250	25	40	85	140	25
EB304260	26	40	85	140	25
EB304270	27	40	85	140	25
EB304280	28	40	85	140	25
EB304290	29	50	85	150	32
EB304300	30	50	85	150	32
EB304310	31	50	85	150	32
EB304320	32	50	85	150	32
EB304350	35	50	85	150	32
EB304360	36	50	85	150	32
EB304380	38	55	85	155	32
EB304400	40	55	85	155	32
EB304420	42	55	85	155	32
EB304450	45	63	85	160	32
EB304500	50	63	85	160	32

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRC55 SKD61	~HRC55 SKD11					
○	○								

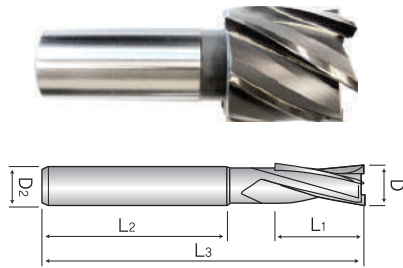
○:General Application ◎:The most suitable Application

■ Tolerance

Mill Dia. (mm)	Shank Dia.
0 ~ -0,05	h7

※:Items can be changed for quality improvement without notice.

Endmills for General & Multi-purpose STANDARD END MILL Series



6 FLUTE, REGULAR LENGTH
- BRAZED TYPE

EB306 ...series



EDP. No.	D	L ₁	L ₂	L ₃	D ₂
EB306 300	30	50	85	150	32
EB306 320	32	50	85	150	32
EB306 350	35	50	85	150	32
EB306 380	38	55	85	155	32
EB306 380 S42	38	55	85	155	42
EB306 400	40	55	85	155	32
EB306 400 S42	40	55	85	155	42
EB306 420	42	55	85	155	32
EB306 420 S42	42	55	85	155	42
EB306 450	45	63	85	160	32
EB306 450 S42	45	63	85	160	42
EB306 500	50	63	85	160	32
EB306 500 S42	50	63	85	160	42

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

■ Tolerance

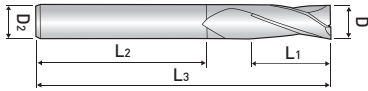
Mill Dia. (mm)	Shank Dia.
0 ~ -0,05	h7

※:Items can be changed for quality improvement without notice.

Endmills for General & Multi-purpose STANDARD END MILL Series



2 FLUTE, LONG LENGTH
- BRAZED TYPE



EB322 ...series



EDP. No.	D	L ₁	L ₂	L ₃	D ₂
EB322140	14	50	60	130	16
EB322150	15	50	60	130	16
EB322160	16	50	60	130	16
EB322180	18	60	60	140	20
EB322200	20	60	60	140	20
EB322220	22	60	60	140	20
EB322240	24	70	60	150	25
EB322250	25	70	60	150	25
EB322260	26	70	60	150	25
EB322280	28	70	60	150	25
EB322300	30	80	70	180	32
EB322320	32	90	70	190	32
EB322350	35	100	70	200	32
EB322380	38	100	70	220	32
EB322400	40	100	70	220	32
EB322450	45	120	80	230	32

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

■ Tolerance

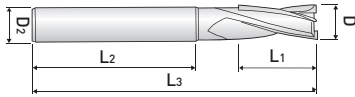
Mill Dia. (mm)	Shank Dia.
0 ~ -0,05	h7

※:Items can be changed for quality improvement without notice.

Endmills for General & Multi-purpose STANDARD END MILL Series



4 FLUTE, LONG LENGTH
- BRAZED TYPE



EB324 ...series



EDP. No.	D	L ₁	L ₂	L ₃	D ₂
EB324140	14	50	60	130	16
EB324150	15	50	60	130	16
EB324160	16	50	60	130	16
EB324180	18	60	60	140	20
EB324200	20	60	60	140	20
EB324220	22	60	60	140	20
EB324240	24	70	60	150	25
EB324250	25	70	60	150	25
EB324260	26	70	60	150	25
EB324280	28	70	60	150	25
EB324300	30	80	70	180	32
EB324320	32	90	70	190	32
EB324350	35	100	70	200	32
EB324380	38	100	70	220	32
EB324400	40	100	70	220	32
EB324450	45	120	80	230	32
EB324500	50	140	80	240	32

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

■ Tolerance

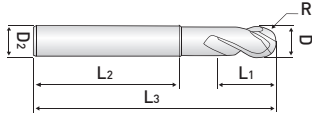
Mill Dia. (mm)	Shank Dia.
0 ~ -0,05	h7

※:Items can be changed for quality improvement without notice.

Endmills for General & Multi-purpose STANDARD END MILL Series



2 FLUTE, BALL NOSE REGULAR LENGTH
- BRAZED TYPE



BB302 ...series



EDP. No.	D	R	L ₁	L ₂	L ₃	D ₂
BB302150	15	7.5	28	55	100	16
BB302160	16	8	28	55	100	16
BB302180	18	9	29	55	110	20
BB302200	20	10	29	55	110	20
BB302220	22	11	36	60	110	25
BB302240	24	12	37	60	110	25
BB302250	25	12.5	38	60	120	25
BB302280	28	14	40	65	120	32
BB302300	30	15	46	65	130	32
BB302320	32	16	47	65	140	32

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

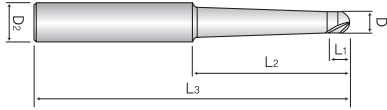
○:General Application ◎:The most suitable Application

■ Tolerance

Mill Dia. (mm)	Shank Dia.
0 ~ -0,05	h7

※:Items can be changed for quality improvement without notice.

Endmills for General & Multi-purpose STANDARD END MILL Series



**2 FLUTE, BALL NOSE ECONOMIC
- BRAZED TYPE**

BB342 ...series



EDP. No.	D	R	L ₁	L ₂	L ₃	D ₂
BB342 150	15	7.5	15	40	100	20
BB342 160	16	8	15	40	100	20
BB342 170	17	8.5	16	45	110	25
BB342 180	18	9	16	45	110	25
BB342 190	19	9.5	17	45	110	25
BB342 200	20	10	17	45	110	25
BB342 210	21	10.5	17	45	110	25
BB342 220	22	11	17	45	110	25
BB342 240	24	12	20	55	120	32
BB342 250	25	12.5	20	55	120	32
BB342 280	28	14	22	65	130	32
BB342 300	30	15	25	65	130	32
BB342 320	32	16	25	75	140	32

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRC55 SKD61	~HRC55 SKD11					
○	○								

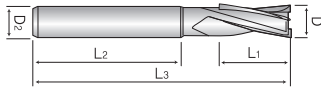
○:General Application ◎:The most suitable Application

■ Tolerance

Mill Dia. (mm)	Shank Dia.
0 ~ -0,05	h7

※:Items can be changed for quality improvement without notice.

Endmills for General & Multi-purpose STANDARD END MILL Series



**4 FLUTE, ROUGHING ENDMILL
- BRAZED TYPE**

EBF304 ...series



FINE GRAIN



HELIX



Chamfered Pitch Type

EDP. No.	D	L ₁	L ₂	L ₃	D ₂
EBF304 160	16	28	60	98	16
EBF304 180	18	32	70	115	20
EBF304 200	20	32	70	115	20
EBF304 250	25	40	85	140	25
EBF304 300	30	50	85	150	32
EBF304 320	32	50	85	150	32
EBF304 350	35	50	85	150	32
EBF304 400	40	55	85	155	42
EBF304 420	42	55	85	155	42
EBF304 450	45	63	85	160	42
EBF304 500	50	63	85	160	42

■ Applicable Working Material

Carbon Steels (S45C, S55C...) ~HB225	Alloy Steels (SCM, SK...) HB22 ~325	Prehardened Steels(NAK...) HRC30~50	Hardened Steels		Copper	Graphite	Cast Iron FCD400, 500~	Aluminum	Stainless Steels
			~HRc55 SKD61	~HRc55 SKD11					
○	○								

○:General Application ◎:The most suitable Application

■ Tolerance

Mill Dia. (mm)	Shank Dia.
0 ~ -0,05	h7

※:Items can be changed for quality improvement without notice.



MEMO



Area with horizontal dotted lines for writing.

