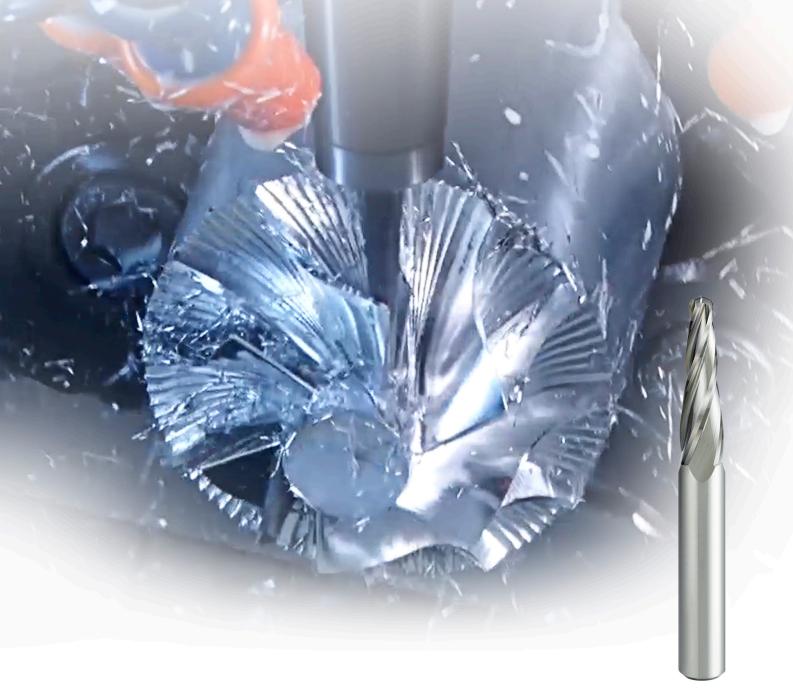


Taper Ball End Mill for Aluminum Impellers

C4LATB



High-efficiency Roughing for Aluminum Impellers



C4LATB

2 ball flutes and 4 peripheral flutes can maintain constant chip discharge and stable tool rigidity.



Please inquire with us regarding special items.

Application Example

High-efficiency Cutting for Aluminum Alloy Impellers

Capable of high feed rates, slotting, and deep depths of cut

Conventional



Breakage During Grooving

C4LATB



High Durability

<Cutting Conditions>

Revolution

Work Material: Aluminum Alloy

(A2618-T61) : C4LATBR100T040AP20 : 20000 min⁻¹

Max. Feed Rate : 78.74 IPM Max. Depth of Cut: ap=.433 inch Cutting Mode : Water Based Machine : Vertical M/C





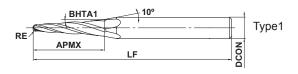




E4LATBBall nose taper end mill, Long cut length, 4 flute, For aluminum impellers

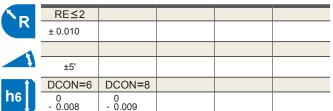
Carbon Steel, Alloy Steel, Cast Iron (<30HRC)	Tool Steel, Pre-hardened Steel, Hardened Steel (≤45HRC)	Hardened Steel (≤55HRC)	Hardened Steel (>55HRC)	Austenitic Stainless Steel	Titanium Alloy, Heat Resistant Alloy	Copper Alloy	Aluminum Alloy
							0





LF

BHTA1





High-efficiency roughing for aluminum impellers.

(r	Υ	١	r	Υ	١	1

Type2

DCON

Order Number	RE	ВНТА1	АРМХ	LF	DCON	* No.F	Stock	Туре
C4LATBR050T040AP20	0.5	4°	20	70	6	4	•	1
C4LATBR100T040AP20	1	4°	20	70	6	4	•	1
C4LATBR150T040AP20	1.5	4°	20	75	8	4	•	1
C4LATBR200T040AP30	2	4°	30	75	8	4	•	2

^{*} Number of Flutes

(Note) Please inquire with us regarding non-standard special shapes (ex.: RE sizes starting from a minimum of R0.3, half included taper angles) or coatings.

Recommended Cutting Conditions

Side Milling (mm)						
Work material	Aluminum alloy					
RE	n (min ⁻¹)	vf (mm/min)	ар	ae		
R0.5	20000	2000	15	0.75		
R1	20000	4000	15	1.5		
R1.5	20000 5200		15	2.25		
R2	20000	5200	23	3		
Depth of cut	ap					

Slotting			(mm)		
Work material	Aluminum alloy				
RE	n (min ⁻¹)	ар			
R0.5	20000	600	10		
R1	20000	2800	10		
R1.5	20000	4000	10		
R2	20000	4000	15		
Depth of cut	ap				

Side Milling (For Finishing)							
Work material	Aluminum alloy						
RE	n (min ⁻¹)	ae					
R0.5	20000	800	18	0.1			
R1	20000	2000	18	0.2			
R1.5	20000	0.3					
R2	20000	0.3					
Depth of cut	ap						



Case Examples for Special Items

- 1) Water-soluble cutting fluid is recommended.
- 2) Climb cutting is recommended for side milling.
- 3) If the rigidity of the machine or the work materials installation is very low, or chattering and noise are generated, reduce the revolution and feed rate proportionately, or set the depth of cut smaller.

For your safety

Don't touch breakers and chips without gloves. Please machine within recommended application range, and exchange expired tools with new parts in advance. Please use safety cover and wear safety glasses. When using compounded cutting oils, please take fire prevention. When attaching inserts or spare parts, please use the attached wrench or driver. When using tools in revolution machining, please make a trial run to check run-out, vibration, abnormal sounds etc.

ERIALS CORPORATION

