

# CALP

## Indexable Milling Tools

### LPGX

#### High Feed Micro Milling

捨棄式高進給小徑銑刀

2021.10

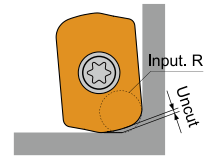
- Sharp edge design with low cutting force and anti-vibration.  
低切削阻力和抗振性的高效率銑削
- High feed milling on wide range of machining applications.  
在廣泛的加工應用中進行高進給銑削
- Insert geometry design with good chip control.  
刀片幾何設計具有良好的排屑能力並抑制咬屑
- Cutter Specifications : 10mm×2T, 12mm×3T & 16mm×4T.  
刀桿規格：10mm×2T, 12mm×3T 及 16mm×4T





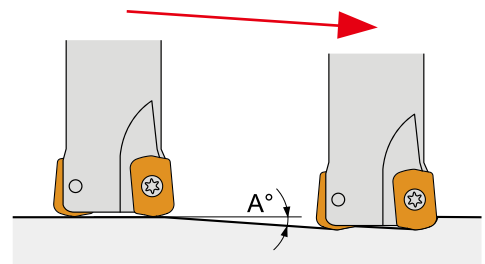
### Corner R Programming

Designation	Approx. R (mm)	
	Input. R	Uncut
LPGX0102	1.2	0.17



### For Ramping

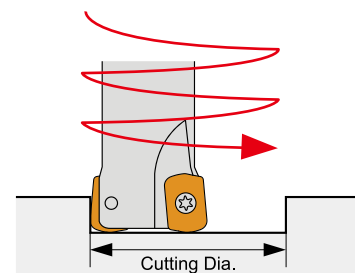
Cutter Dia. (mm)	Max. ramping angle (A°)	tan (A°)
10	3.0°	0.052
11	2.5°	0.044
12	2.0°	0.035
16	1.2°	0.021
17	1.0°	0.017



### For Helical Milling

Mini Cutting Dia.	Max Cutting Dia.
2 × Cutter Dia. - 3.5	2 × Cutter Dia. - 2

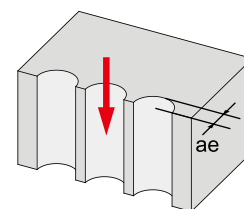
※ Do not exceed the Max Cutting Dia and lower than the Mini Cutting Dia.



### For Plunging

Max. ae
1.7mm

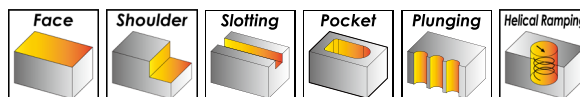
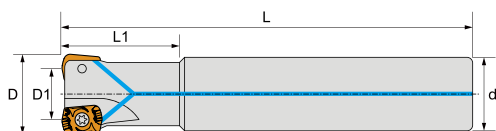
※ Reduce feed rate to fz=0.2mm/t or less.



### Recommended Cutting Conditions

Working Material	Vc	fz	ap
Carbon Steel / Alloy Steel	120 ~ 250	0.2 ~ 0.8	0.2 ~ 0.5
Stainless Steel	100 ~ 180	0.2 ~ 0.6	0.2 ~ 0.4
Cast Iron	120 ~ 250	0.2 ~ 0.8	0.2 ~ 0.5
High Temperature Alloy	40 ~ 100	0.2 ~ 0.4	0.2 ~ 0.3
Hardened Steel	50 ~ 100	0.2 ~ 0.5	0.2 ~ 0.3

### CALPE - Milling tools



Order No.	D	D1	L1	L	d	T	Coolant Hole	Inserts	Screw	Wrench	Stock
ICALPE102010080	10	6.2	20	80	10	2		LPGX0102	IMS1804A	ITK06	●
ICALPE102010081	10	6.2	20	80	10	2	✓				●
ICALPE103012080	12	8.2	20	80	12	3					●
ICALPE103012081	12	8.2	20	80	12	3	✓				●
ICALPE104016090	16	12.2	20	90	16	4					●
ICALPE104016091	16	12.2	20	90	16	4	✓				●

● stock ○ by inquiry

Customize available.