



Made in  
**TAIWAN**

**WINSTAR**

# ***CXLN High Feed Face Milling***

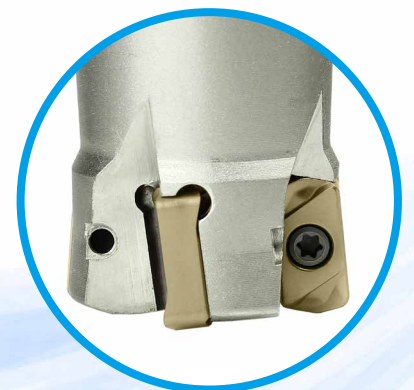
## ***Double sided, 4 cutting edges***

2021.07

***More Speed, More Feed, More Cutting Depth  
and More Performance !!***



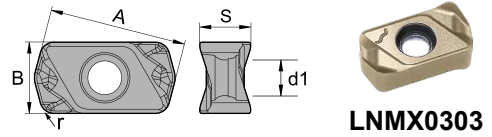
- *Available in End mill, Modular and Face mill type.*
- *Up to 1mm D.O.C capability.*
- *Large positive insert rake angles for extremely easy cutting.*
- *Single screw design for high rigid & tensile clamping.*



**WI1806-2E**

## Insert Specification

Insert	Dimensions (mm)			
	A	B	S	d1
LNMX0303	11.59	6.0	4.29	2.85



## Insert Geometry

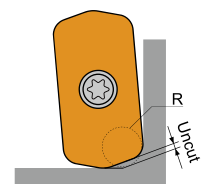
Shape	Chipbreaker	Application
	<b>SG</b>	Sharp geometry design for finishing cutting in steel, stainless and difficult-to-cut material.
	<b>MG</b>	Low cutting force for medium cutting in steel, stainless and cast iron.

## Insert Grade

Grade Type	Coating Type	Properties	Application	Working Material						Industry Area
				P	M	K	N	S	H	
<b>CX22HS</b>	PVD	<ul style="list-style-type: none"> <li>High Wear resistance</li> </ul>	<ul style="list-style-type: none"> <li>Continuous finishing machining</li> <li>For Hardened steel and Cast iron</li> </ul>	●	●	●		○	●	<ul style="list-style-type: none"> <li>Die and mould</li> <li>Hardened parts</li> <li>Aircraft parts</li> </ul>
<b>CX23TS</b>										
<b>CX32HS</b>	PVD	<ul style="list-style-type: none"> <li>Wear resistance</li> <li>Impact resistance</li> </ul>	<ul style="list-style-type: none"> <li>Medium machining</li> <li>For Carbon steel, Alloy steel, Stainless steel and High temperature alloy</li> </ul>	●	●	●		○	○	<ul style="list-style-type: none"> <li>Auto parts</li> <li>Machinery parts</li> <li>Aircraft parts</li> </ul>
<b>CX33TS</b>				●	●	●		●	●	
<b>CX43TS</b>	PVD	<ul style="list-style-type: none"> <li>High Impact resistance</li> <li>High toughness</li> </ul>	<ul style="list-style-type: none"> <li>Roughing or interrupted machining</li> <li>For Carbon steel, Alloy steel, Stainless steel and High temperature alloy</li> </ul>	●	●	●			●	<ul style="list-style-type: none"> <li>Auto parts</li> <li>Machinery parts</li> <li>Aircraft parts</li> </ul>

## Corner R Programming



Designation	Approx. R (mm)	
	Input. R	Uncut
LNMX0303	1.5	0.5



## Recommended Cutting Conditions

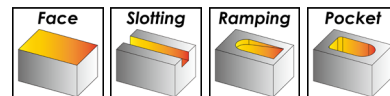
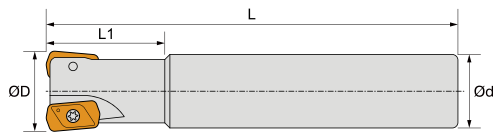
Working Material	Vc	fz	ap
Carbon Steel / Alloy Steel	120 ~ 250	0.4 ~ 1.6	0.3 ~ 0.9
Stainless Steel	100 ~ 180	0.3 ~ 1.2	0.3 ~ 0.7
Cast Iron	120 ~ 250	0.4 ~ 1.6	0.3 ~ 0.9
High Temperature Alloy	40 ~ 100	0.3 ~ 0.8	0.3 ~ 0.6
Hardened Steel	50 ~ 100	0.3 ~ 1.0	0.3 ~ 0.6

## Order Code

Insert	Order No.	Designation	Working Material					
			P	M	K	N	S	H
	ILNMX0303SG22HS	LNMX0303-SG-CX22HS	●	●	●		○	●
	ILNMX0303SG23TS	LNMX0303-SG-CX23TS	●	●	●		●	●
	ILNMX0303SG32HS	LNMX0303-SG-CX32HS	●	●	●		○	○
	ILNMX0303SG33TS	LNMX0303-SG-CX33TS	●	●	●		●	●
	ILNMX0303SG43TS	LNMX0303-SG-CX43TS	●	●	●		●	
	ILNMX0303MG22HS	LNMX0303-MG-CX22HS	●	●	●		○	●
	ILNMX0303MG23TS	LNMX0303-MG-CX23TS	●	●	●		●	●
	ILNMX0303MG32HS	LNMX0303-MG-CX32HS	●	●	●		○	○
	ILNMX0303MG33TS	LNMX0303-MG-CX33TS	●	●	●		●	●
	ILNMX0303MG43TS	LNMX0303-MG-CX43TS	●	●	●		●	



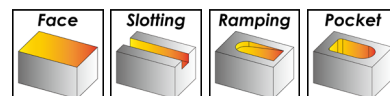
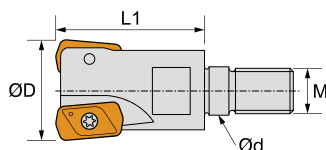
## CXLNE - Milling tools



Order No.	D	L1	L	d	T	Inserts	Screw	Wrench
ICXLNE302016100	16	30	100	16	2	LNMX0303	ITS2535	ITK07
ICXLNE302016150	16	30	150	16	2			
ICXLNE303020150	20	50	150	20	3			
ICXLNE304020130	20	50	130	20	4			
ICXLNE304025150	25	60	150	25	4			
ICXLNE305025140	25	60	140	25	5			
ICXLNE306032150	32	70	150	32	6			

Customize available.

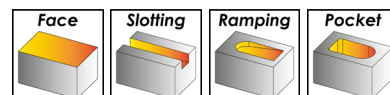
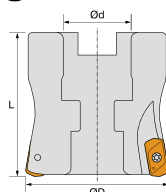
## CXLNM - Modular tools



Order No.	D	L1	d	M	T	Inserts	Screw	Wrench
ICXLNM302017080	17	26	8.5	M8	2	LNMX0303	ITS2535	ITK07
ICXLNM303021100	21	32	10.5	M10	3			
ICXLNM304026120	26	38	12.5	M12	4			
ICXLNM304032160	32	41	17	M16	4			

Customize available.

## CXLNF - Milling tools



Order No.	D	L	d	T	Inserts	Screw	Wrench
ICXLNF305050220	50	50	22	5	LNMX0303	ITS2535	ITK07

Customize available.

### WINSTAR CUTTING TECHNOLOGIES CORP.

No. 10, Gongye 6th Rd., Annan Dist., Tainan City 709, Taiwan  
(Tainan Technology Industrial Park)

TEL : +886-6-3840386

FAX : +886-6-3840387

www.winstarcutting.com

info@winstarcutting.com