



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 !!



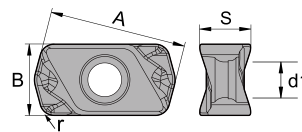
- *Available in End mill, Modular and Face mill type.*
- *Up to 1mm D.O.C capability.*
- *Large positive insert rake angles for extremely easy cutting.*
- *Single screw design for high rigid & tensile clamping.*



WI1806-2E

Insert Specification

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



Insert Geometry

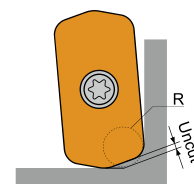
| Shape | Chipbreaker | Application |
|-------|-------------|--|
| | SG | Sharp geometry design for finishing cutting in steel, stainless and difficult-to-cut material. |
| | MG | Low cutting force for medium cutting in steel, stainless and cast iron. |

Insert Grade

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

Corner R Programming



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



Recommended Cutting Conditions

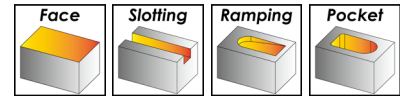
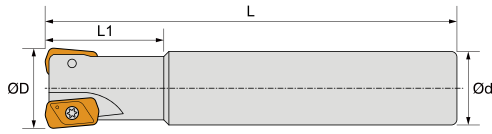
| Working Material | Vc | fz | ap |
|----------------------------|-----------|-----------|-----------|
| Carbon Steel / Alloy Steel | 120 ~ 250 | 0.4 ~ 1.6 | 0.3 ~ 0.9 |
| Stainless Steel | 100 ~ 180 | 0.3 ~ 1.2 | 0.3 ~ 0.7 |
| Cast Iron | 120 ~ 250 | 0.4 ~ 1.6 | 0.3 ~ 0.9 |
| High Temperature Alloy | 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 | ● | ● | ● | | ● | |



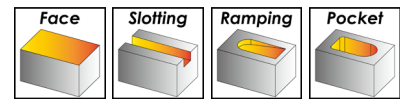
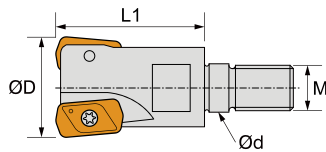
CXLNE - Milling tools



| Order No. | D | L1 | L | d | T | Inserts | Screw | Wrench |
|-----------------|----|----|-----|----|---|----------|---------|--------|
| ICXLNE302016100 | 16 | 30 | 100 | 16 | 2 | LNMX0303 | ITS2535 | ITK07 |
| ICXLNE302016150 | 16 | 50 | 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.

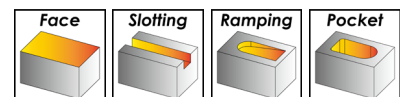
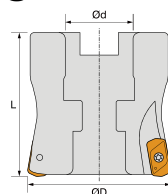
CXLNM - Modular tools



| 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.

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