

HIGH PERFORMANCE MILLING



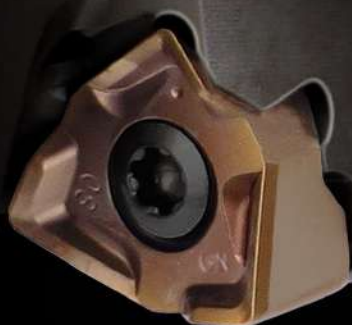
yg1usa.com

TRUE 90° SHOULDER MILLING

TPKT



WNEX



LNKU



FACE MILLING & HIGH FEED MILLING

PNMU



ENMX



800.765.8665

YG-1 INDEXABLE MILLING

TPKT | TRUE 90° SHOULDER MILLING

WGMILL



Larger Core →

TRUE 90° SHOULDER

Positive Insert

TPKT 16

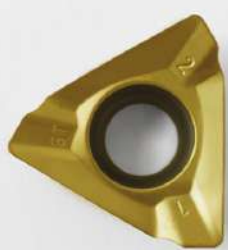
AP	THICKNESS
.433" 11mm	.212" 5.38mm

- ▶ **Optimized coolant delivery**
Improves chip and thermal evacuation

→ **TPKT – 3 Cutting Edges**
High Positive Insert for Low Cutting Forces

- ▶ **High positive rake**
Minimized burr

- ▶ **High helix cutting edge**
Smooth cutting and low cutting force



- ▶ **Wide wiper edge**
Excellent surface finish



- ▶ **New design of curved cutting edge**
Minimized mismatch at step machining



MODULAR HEAD

END MILL

TPKT 11

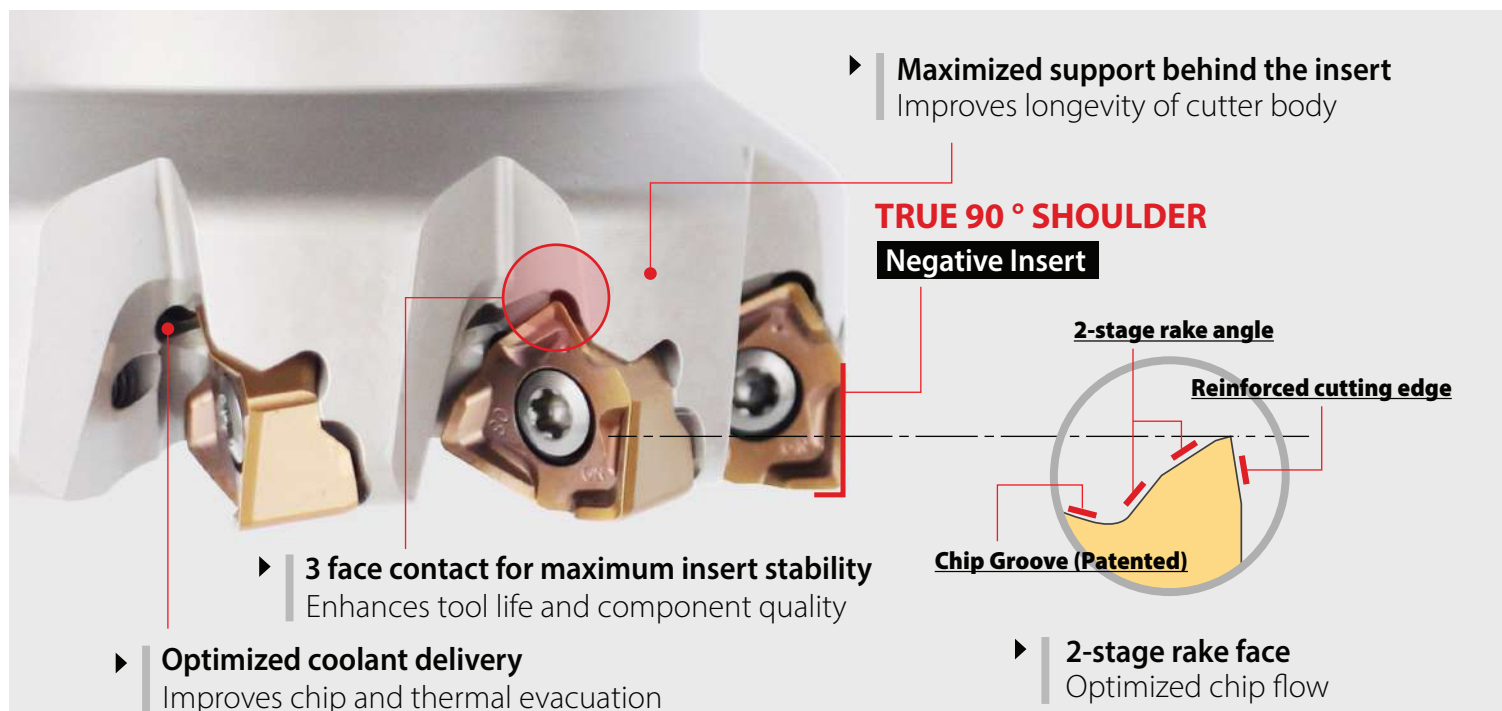
THICKNESS	AP
.169" 4.28mm	.275" 7mm



WNEX

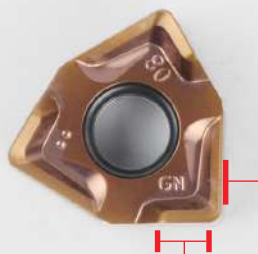
TRUE 90° SHOULDER MILLING

WGMILL



→ WNEX – 6 Cutting Edges (Double-sided)

- ▶ **True 90° shoulder**
Excellent shoulder finish



- ▶ **Wide wiper**
Class leading floor finish



- ▶ **Patent chip groove**
Superior chip evacuation

- ▶ **High helix cutting edge**
Reduced cutting force and power draw



- ▶ **Thick insert**
To maximize bulk strength yielding superior predictability and enhancing tool life

END MILL



MODULAR HEAD

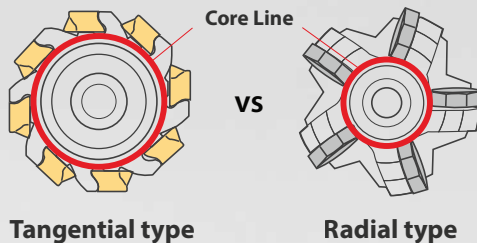


LNKU

TRUE 90° SHOULDER MILLING

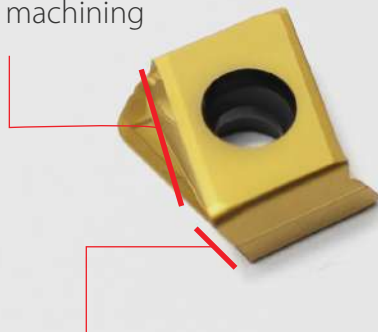


- **Reinforced cutting edge**
Predictable, durable and stable machining



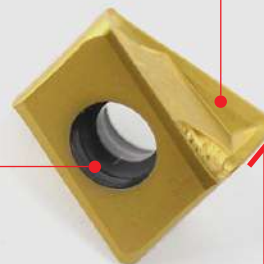
→ **LNKU – 4 Cutting Edges (Double-sided)**

- **Long length of cutting edge**
High depth of cut
- Curved cutting edge**
Minimized mismatch at step machining



- **Thicker insert**
Ultra rigidity

- **High positive rake face**
Optimized chip formation and minimized burr

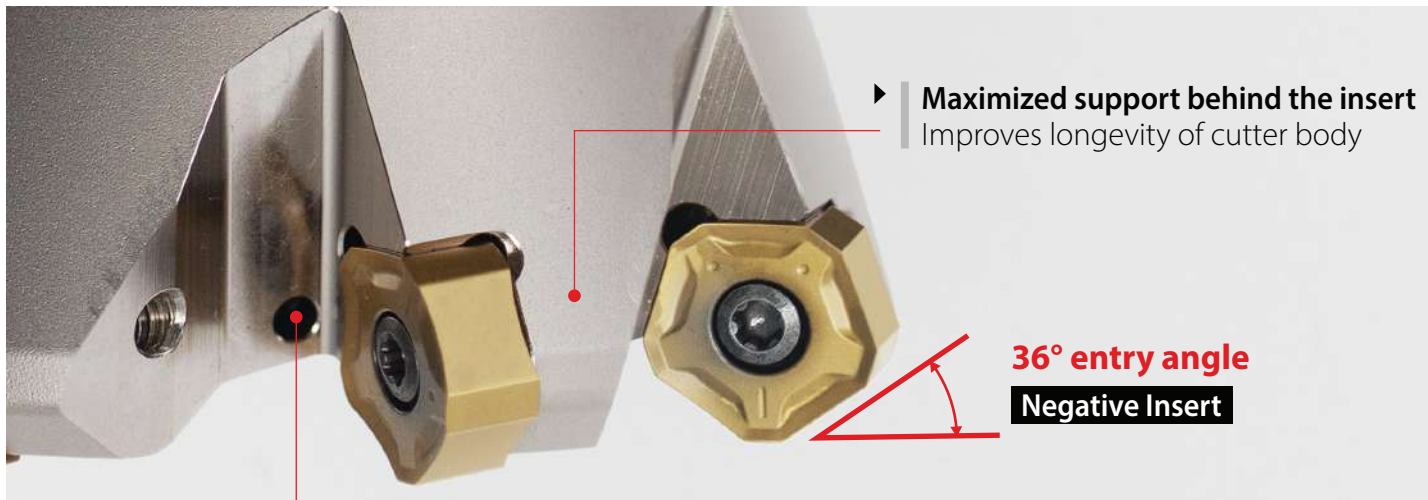


- **High helix cutting edge**
Smooth cutting and low cutting force



- **Wide wiper flat cutting edge**
Excellent surface finish

- **Tangential clamping system**
Rigid clamping and stable machining



→ PNMU – 10 Cutting Edges (Double-sided)

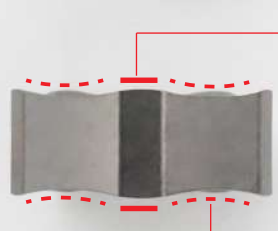


- ▶ **36-degree entry angle**
Increased feed rate due to chip thinning, outstanding stability due to direction of force into the spindle.



- ▶ **10 true cutting edges (Double-sided)**
Separation of cutting edge and wiper yields full use of all 10 edges, resulting in outstanding value.

- ▶ **Wiper flat cutting edge**
Excellent surface finish



- ▶ **Curved cutting edge**
Reduced cutting forces

ENMX

HIGH FEED MILLING

END MILL

→ ENMX – 4 Cutting Edges (Double-sided)

- ▶ **Corner Protection**
To eliminate chipping



- ▶ **Wide Flank Face**
Rigid Insert Clamping



- ▶ **Positive Rake Angle**
For lower cutting force

- ▶ **Low Entering Angle**
For high feed rate

15° entry angle
Negative Insert

- ▶ **Thick insert**
To maximize bulk strength yielding superior predictability and enhancing tool life

↓
**Design for Maximum
Stability in Long Reach
Applications**



MODULAR HEAD



→ TRUE 90° SHOULDER MILLING



AP Max	7mm/.275"	11mm/.430"	11mm/.430"	11mm/.430"
Feed rate/MRR	Low	Low to Medium	Low to Medium	Medium to High
Shoulder Finish	Best	Best	Best	Good
Floor Finish	Good	Good	Good	Good
Machine type	Small	Small to Medium	Small to Medium	Medium to Large
Setup Stability	Low	Low to Decent	Low to Decent	Good to Great
Spindle interface	Small	Small to Medium	Small to Medium	Large
Facemills	2-5"	50-200mm/2-6"	50-200mm/2-6"	40-160mm/2-10"
Endmills	20-40mm/1.25-2"	32-40mm/1.25-2"	32-40mm/1.25-2"	—
Modular	— /1.25-1.5"	—	—	—

→ FACE MILLING & HIGH FEED MILLING



AP Max	1mm/.039"	1.5mm/.059"	4mm/.158"	7mm/.275"
Feed rate	High	Very high	Medium	Low
Facing	Good	Good	Best	Good
Finish	Poor	Poor	Best	Good
Profiling/Ramping	Best	Better	Unsuitable	Good
Machine type	Small	Small to Medium	Small to Large	Small to Large
Setup Stability	Low	Decent	Decent to Good	Decent to Good
Spindle interface	Small to Medium	Small to Large	Small to Large	Medium to Large
Facemills	40-50mm/1.5-3"	50-125mm/2-6"	50-200mm/2-10"	50-125mm/2-5"
Endmills	16-32mm/.625-1.5"	25-40mm/1-1.5"	—	32-50mm/1.25-1.5"
Modular	16-42mm/.625-1.5"	—	—	32-40mm/1.25-1.5"

YG-1 ROTARY TOOLING

HYDRAULIC
CHUCK (Power E)



SHELL MILL
ARBOR



END MILL
HOLDER



SK SLIM
CHUCK



ER COLLET
CHUCK



SHRINK FIT
HOLDER



POWER MILLING
CHUCK



TAPPING ER
CHUCK



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