

TRUE 90° SHOULDER MILLING

TPKT WNEX LNKU







FACE MILLING & HIGH FEED MILLING

PNMU ENMX





TPKT | TRUE 90° SHOULDER MILLING



MODULAR HEAD



TRUE 90 ° SHOULDER

Positive Insert

TPKT 16

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



END MILL

TPKT 11

AP **THICKNESS** .169" 4.28mm

.275" 7mm

▶ Optimized coolant delivery Improves chip and thermal evacuation

Larger Core

→ 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





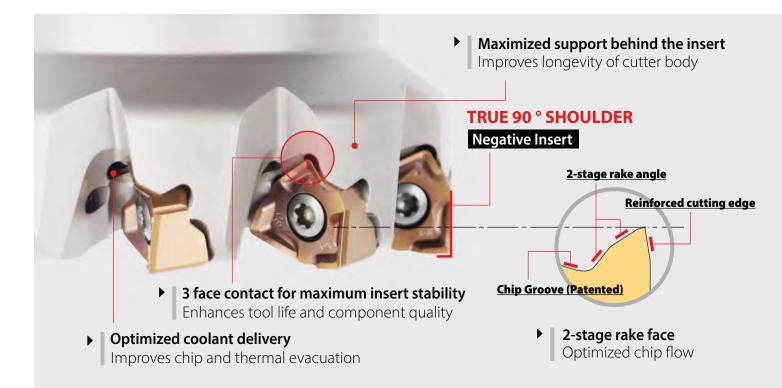


▶ New design of curved cutting edge Minimized mismatch

▶ | Wide wiper edge Excellent surface finish at step machining

WNEX | TRUE 90° SHOULDER MILLING





→ **WNEX** – 6 Cutting Edges (Double-sided)



Wide wiper Class leading floor finish

High helix cutting edge Reduced cutting force and power draw



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





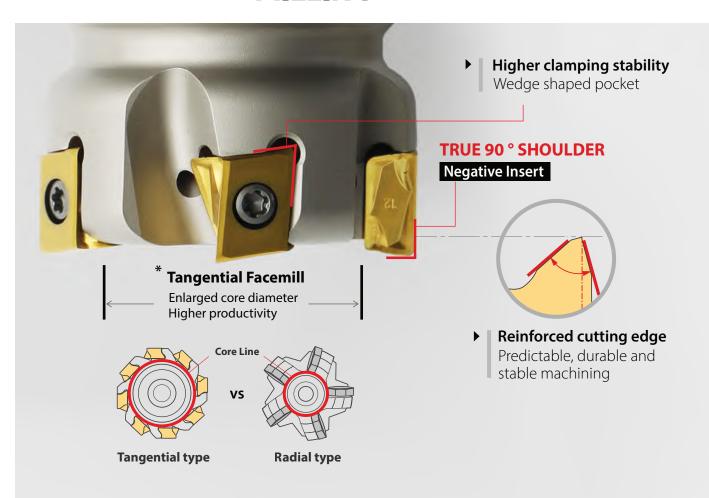


MODULAR HEAD



LNKU TRUE 90° SHOULDER MILLING





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



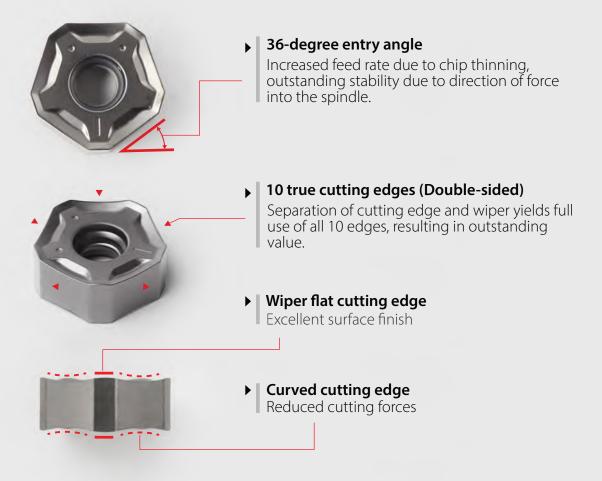
PNMU | FACE MILLING





▶ Optimized coolant delivery
Improves chip and thermal evacuation

→ **PNMU** – 10 Cutting Edges (Double-sided)



ENMX | HIGH FEED MILLING





→ **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)









ER COLLET CHUCK









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Some restrictions may apply.





