

# Ultra High Performance

## PRODUCT PORTFOLIO

**[MELIN]** *UHP+*



### MELIN UHP+ PRODUCT PORTFOLIO

- » MTi4
- » MTi5
- » MTi7
- » MNi4
- » MNi5
- » Chipbreakers

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# MELIN ULTRA HIGH PERFORMANCE - TITANIUM & STAINLESS

4 FLUTE • VARIABLE INDEX - SQUARE, RADIUS, BALL & REDUCED NECK

SERIES: MTi4 & MTi4-RN



- › 4 Flute Variable pitch for reduced chatter and increased productivity.
- › Substrate, Geometry & Unique Coating optimized for difficult-to-machine materials such as **TITANIUM AND STAINLESS STEELS, AS WELL AS TOOL STEELS**
- › For aggressive heavy **SLOTING** up to 1 times DIA, PERIPHERAL MILLING, TROCHOIDAL & HIGH EFFICIENCY MILLING
- › Radius - R.010 - R.375 and Ball
- › Chipbreaker can be added to any length to aid in avoiding chip build up and chip nesting
- › **LONG SHANK OPTION** - Allows the flexibility to add **ANY LBS** size you need without the wait!  
Stocked for quick turn around.

5 FLUTE • REDUCED NECK - SQUARE, RADIUS, BALL & REDUCED NECK



SERIES: MTi5 & MTi5-RN

- › 5 Flute Variable pitch for reduced chatter and increased productivity.
- › Substrate, Geometry & Unique Coating optimized for difficult-to-machine materials such as **TITANIUM AND STAINLESS STEELS, AS WELL AS TOOL STEELS**
- › For **SLOTING** up to 1 times DIA, PERIPHERAL MILLING, TROCHOIDAL & HIGH EFFICIENCY MILLING
- › Radius - R.010 - R.375 and Ball
- › Chipbreaker series available in **STOCK** to aid in avoiding chip build up and chip nesting.
- › **LONG SHANK OPTION** - Allows the flexibility to add **ANY LBS** size you need without the wait!  
Stocked for quick turn around.



7 FLUTE • VARIABLE INDEX - SQUARE & RADIUS

SERIES: MTi7

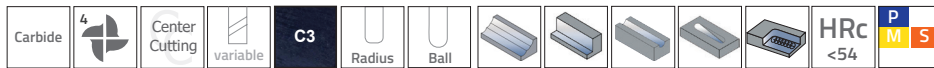


- › 7 Flute Variable pitch for reduced chatter and increased productivity.
- › Substrate, Geometry & Unique Coating optimized for difficult-to-machine materials such as **TITANIUM AND STAINLESS STEELS, AS WELL AS TOOL STEELS**
- › For **PERIPHERAL MILLING, TROCHOIDAL & HIGH EFFICIENCY MILLING** utilizing full length of cut up to 7% of DIA
- › Radius - R.010 - R.120 and Ball
- › Chipbreaker can be added to any length of cut or reach combination to aid in avoiding chip build up and chip nesting

# MELIN ULTRA HIGH PERFORMANCE - INCONEL

4 FLUTE • REDUCED NECK - RADIUS & BALL

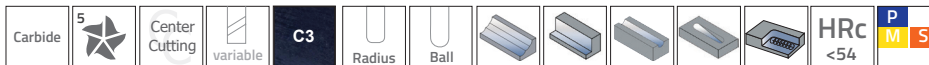
SERIES: MNI4



- › 4 Flute Variable pitch for reduced chatter and increased productivity.
- › Available sizes: 1/8 - 1/2"
- › Substrate, Geometry & Coating optimized for difficult-to-machine materials such as **INCONEL** and **Nickel Based** materials as well as most other difficult to machine materials.
- › For heavy aggressive SLOTTING up to 1/2 DIA PERIPHERAL MILLING, TROCHOIDAL MACHINING
- › Radius - R.015 - R.120 and Ball

5 FLUTE • VARIABLE INDEX - RADIUS & BALL

SERIES: MNI5



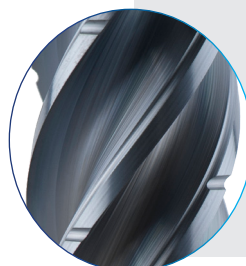
- › 5 Flute Variable pitch for reduced chatter and increased productivity.
- › Available sizes: 1/4 - 1"
- › Substrate, Geometry & Coating optimized for difficult-to-machine materials such as **INCONEL** and **Nickel Based** materials as well as most other difficult to machine materials.
- › For SLOTTING up to 1/2 times DIA, PERIPHERAL MILLING, TROCHOIDAL MACHINING using up to 7% of DIA
- › Radius - R.015 - R.120 and Ball

CHIPBREAKER - ADD A CUSTOMIZED DESIGN

SERIES: MELIN CHIPBREAKER DESIGNS



- › Add a Chipbreaker design to any UHP<sup>+</sup> Series
- › Standard Stocked Chipbreaker design on **5 & 7 Flute**
- › Additional Customizations
  - › Weldon Flat
  - › Rough Grip
  - › Haimer Safe Lock™
- › Unique ChipBreaker Design - Customized between 2 styles of chipbreaker to aid in avoiding chip build up and chip nesting.



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## Application Optimization

- Reduce Manufacturing Costs
- Eliminate Steps
- Evaluate Alternative Processes
- Optimize Tool Design
- Significantly Reduce Chatter & Vibrations
- Download Speed & Feed App Today!





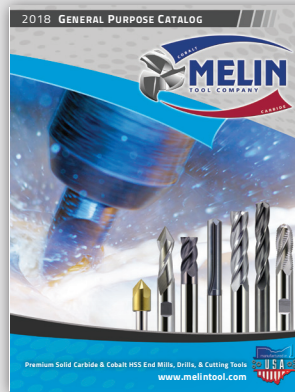
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