

**beyond**<sup>™</sup> **EVOLUTION**<sup>™</sup>

GROOVING,  
CUT-OFF, AND  
MULTI-DIRECTIONAL  
TURNING  
MADE...

**E**  **ASY**

That's Beyond<sup>™</sup> Evolution<sup>™</sup>

  
That's Different Thinking

# Your day made **EASY**

Choosing the right tooling can be complicated and time consuming. Built on simplicity, we have engineered a new tool that makes every machine operator's life EASY.

Unwilling to sacrifice performance or applications, Kennametal introduces Beyond™ Evolution™.

Beyond Evolution is the new single-side grooving and cut-off tool that also performs multi-directional turning.



Face Grooving



Grooving



Deep Grooving



Cut-Off



Side Turning



Chamfering



Profiling



Facing

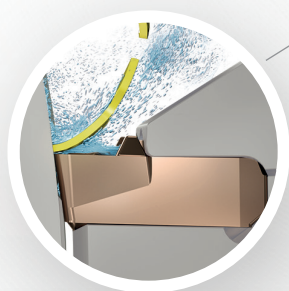
# Productivity made **EASY**

## Active Coolant Control

If your coolant delivery is typical to the market, you may be applying more heat to the cutting edge than you think. This reduces tool life and increases cycle time.

With Beyond Evolution, you won't have to change your existing equipment. Whether you are using a high pressure

or low pressure coolant supply, Beyond Evolution, featuring Active Coolant Control, delivers more tool life or higher metal removal rates.



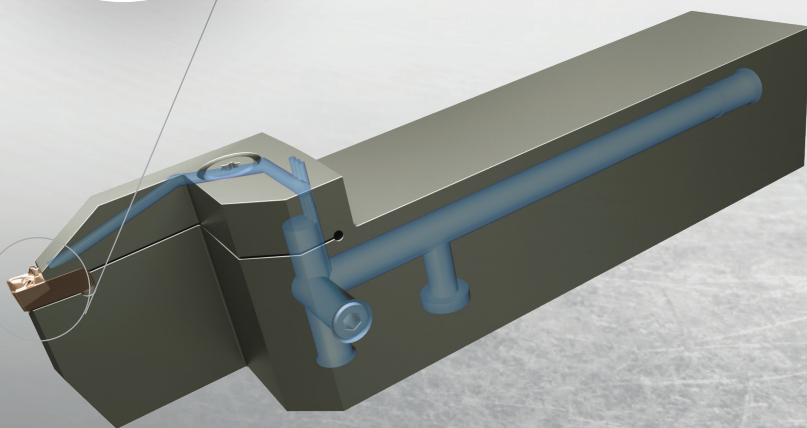
### ***1. Fan Effect***

Directs coolant across the top of the insert precisely to the cutting zone underneath the chip and controls temperature.



### ***2. Chip Breaking Effect***

Improve chip control in all grooving, cut-off, and multi-directional turning applications.



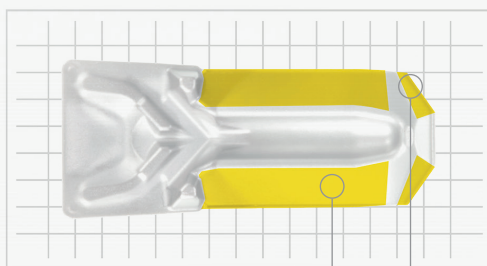


# Smooth surface finish made **EASY** Triple-V Seating

**Problem:** Traditional single-sided grooving and cut-off systems cannot deliver smooth surface finish due to lack of stability.

**Solution:** Beyond Evolution's proprietary new Triple-V Seating feature provides functional stability and minimizes vibration.

Three contact surfaces provide unmatched stability: When combined with GUP and CF chipbreakers, Triple-V Seating provides excellent surface finish.

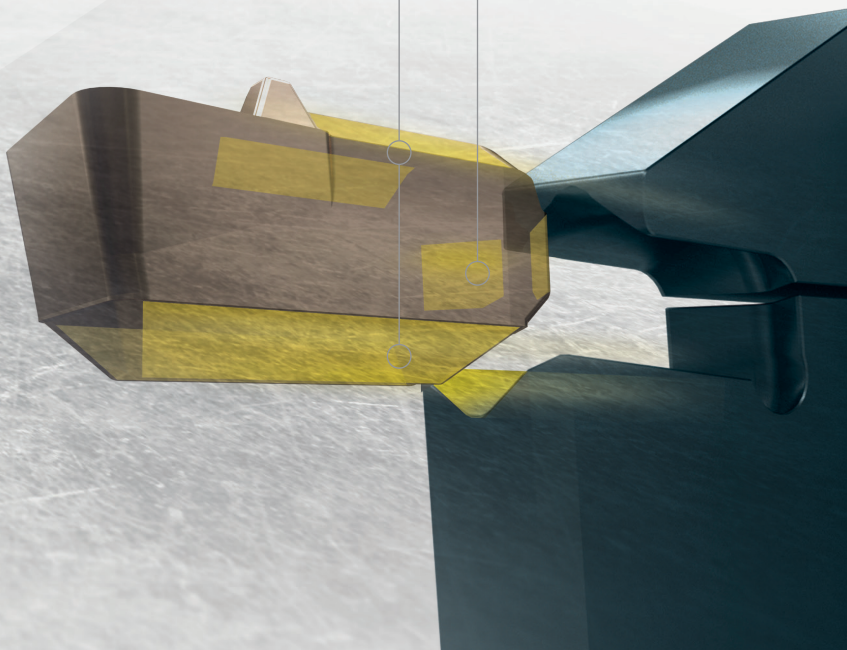


## ***Top and Bottom-V***

Precise and secure insert positioning for increased rigidity and dimensional accuracy.

## ***V-Back Design***

Unsurpassed grooving, cut-off, and multi-directional turning load stability.



# Saving money made **EASY**

Beyond Evolution, featuring Active Coolant Control, Triple-V Seating, and Beyond Drive grades with Wear Detection Technology,

provides longer tool life, maximum stability, and higher metal removal rates, resulting in up to 30% higher productivity.

