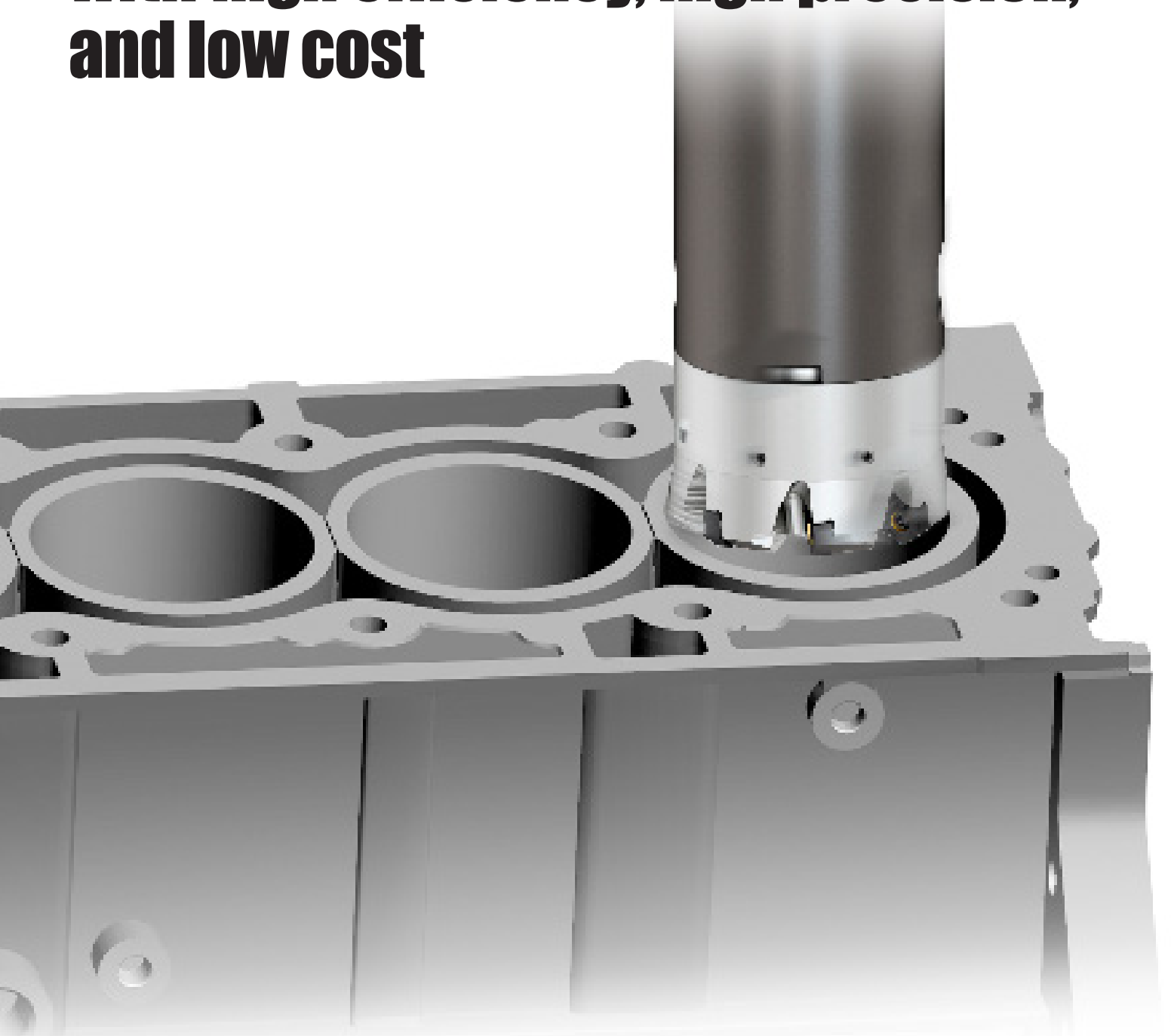


Boring Cutter

# ***BMR***



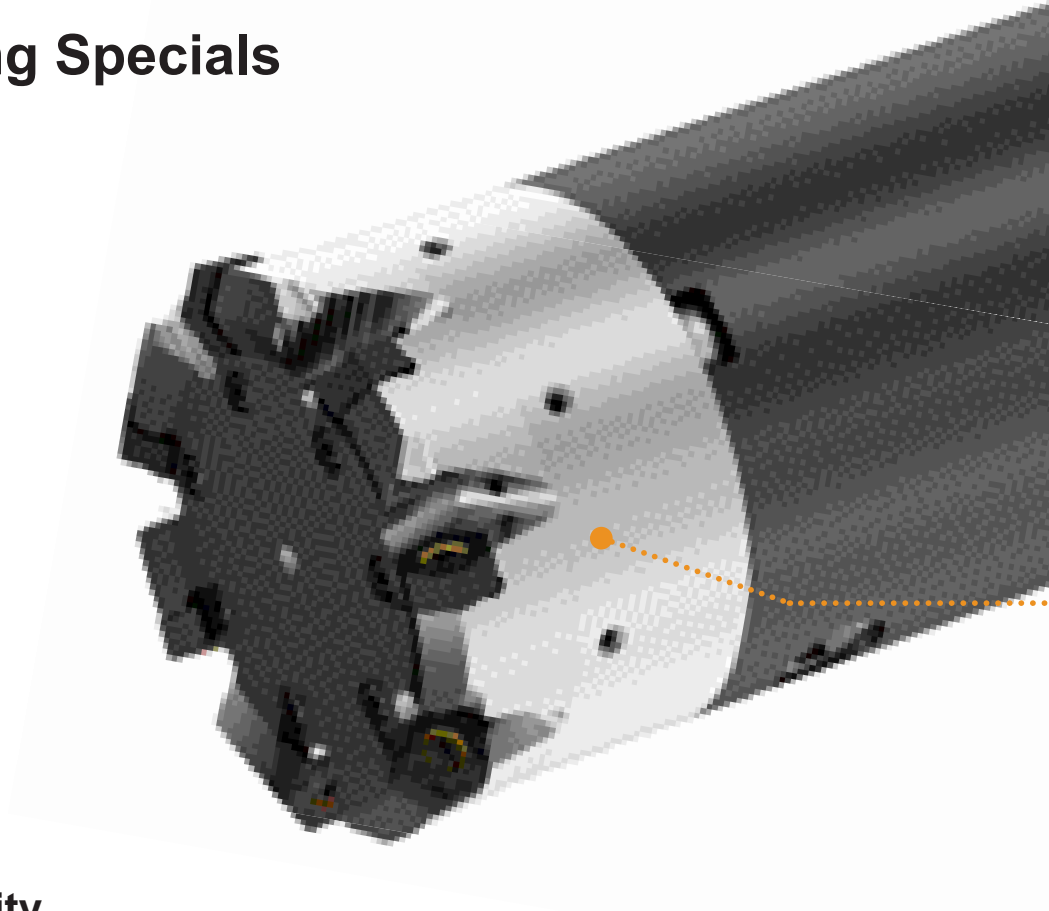
**For cylinder blocks,  
Hexagonal double-sided inserts  
with high efficiency, high precision,  
and low cost**



Boring Cutter

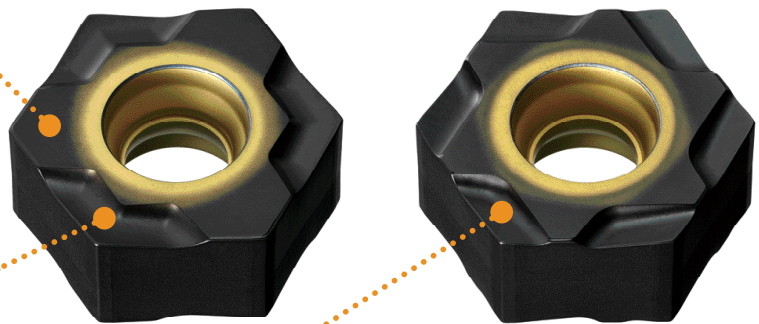
# BMR

BMR Engineering Specials



## High Clamping Rigidity

High feed processing possible with improved fracture resistance.



## Double Positive Breaker

Reduced cutting resistance. Supports open deck work. Effective finished surface due to wiper edge.

## 12-Corner Type with Right Hand

Economical 12-corner type that preserves comparable insert rigidity of the 6-corner type by securing the seating surface directly below where the cutting force is absorbed.



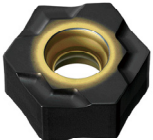
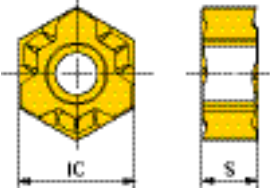
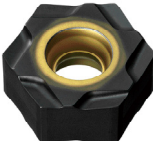
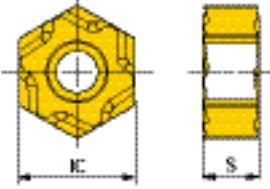
## Highly rigid 6-corner type and economical 12-corner type inserts

### Body with Peripheral Cutting Edge Run-out adjustable mechanism

Economical M-class insert can be used since run out is adjustable.

\* BMR Cutters - Non stock, engineering specials produced to order only.

#### INSERT

Shape	Order Number	Grade	Hand	Cutting edge	Stock	Dimensions (inch)		Geometry
						IC	S	
	<b>HNMX1206EN06-R</b>	<b>MC5015</b>	-	6	★	.500	.236	
	<b>HNMX1206ER12-R</b>	<b>MC5015</b>	R	12	★	.500	.236	


★ : Inventory maintained in Japan.

#### RECOMMENDED CUTTING CONDITIONS

Work Material	Tensile Strength	Grade	Cutting Speed vc (SFM)	Feed per Tooth fz (IPT)	Cutting depth ae (inch)
<b>K</b> Gray Cast Iron	<350MPa	<b>MC5015</b>	655 (490—820)	.008 (.004—.010)	<.118

\* With feed per cutter, settings are set small for finished surface roughness and large for ideal product life.

## APPLICATION EXAMPLES

Cutter Body	<b>BMR ø85 mm (7 inserts)</b>	
Insert (Grade)	<b>HNMX1206EN06-R(MC5015)</b>	
Workpiece	<p>Gray Cast Iron            Cutting diameter : ø3.15 inch            Cutting depth : 5.512 inch</p> 	
Cutting Conditions	Revolution (RPM)	750
	Cutting Speed (SFM)	655
	Feed (IPT)	.008
	Table Feed (IPM)	41.3
	Depth of Cut (inch)	.079
Cutting mode		Wet
Results	<p>Improve machining efficiency by 2.2x and approximately 5x longer tool life, under conventional conditions.            Stable cutting with favorable finished surface roughness and achievable cylindricity.</p>	

The above application examples are customer's application examples, so it can be different from the recommended conditions.



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