

BLACKORUSH



ISO Class
K10-K30

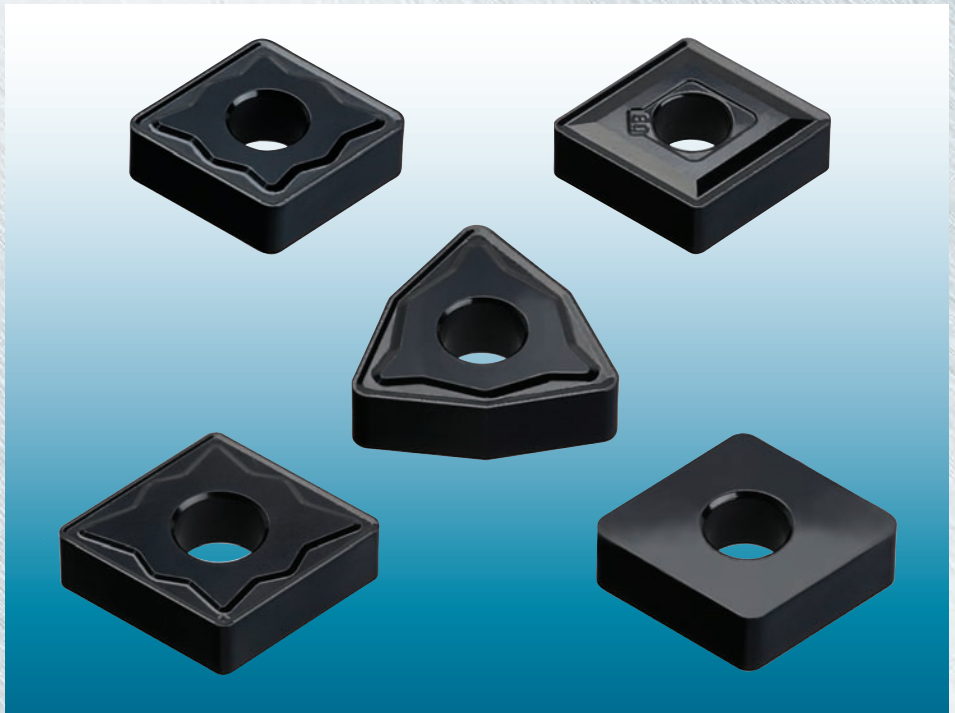
More than 200 unique inserts!

Negative	Positive
CNMA/G	CCMT
DNMA/G	CPMT
HNMG	DCMT
SNMA/G	RCMT/X
TNMA/G	SCMT
VNMG/X	TCMT
WNMA/G/X	TPMR/T
VNMX	VBMT

Sizes (IC)
.250", .375", .500", .625", .750"

Chip breakers

- Common style
- MT
- RT
- KT
- Flat Top
- PC (positive inserts only)
- Wipers



TT7015

Now With

GOLDOLIFE+™ Technology

*An Improved CVD Coated Grade
for Cast Iron Machining*

Features & Benefits

- Suitable for general purpose machining of gray cast iron and ductile cast iron
- Advanced coating and substrate design enables improved wear resistance and toughness
- High anti-chipping capability provides stable tool life
- Unexpected insert failure minimized even under interrupted cutting conditions
- Excellent surface finish generated due to its aligned structure coating layer
- All inserts also feature post-coat Gold-Rush surface treatment

**NEW
PRODUCT
ANNOUNCEMENT
2016**

Ingersoll is pleased to launch an improvement to its popular TT7015 BlackRush grade. This change involves an enhanced coating with **GoldLife+** technology that increases wear resistance and toughness in cast iron turning & boring applications. The new TT7015 inserts will remain black in color in order to easily distinguish them from Ingersoll's other **GoldLife+** TT81xx series grades for turning steel.

It's not uncommon to experience unstable results when machining cast iron, particularly ductile iron where built-up edge and abrasion can cause a variety of insert failure modes. Ingersoll is introducing this new & improved TT7015 **GoldLife+** grade to provide more consistent results when turning ductile iron, and to address the growing demand for this material. This enhanced grade provides higher stability on a wide range of applications and generates longer tool life, particularly through its anti-chipping capability.

The current TT7015 grade will be phased out and replaced by the TT7015 **GoldLife+** grade as existing stock is depleted. The item numbers and designations will remain unchanged. Inserts featuring this new grade will denote a special **GoldLife+** sticker on the package.



***Note: Due to the outstanding performance of the improved TT7015 grade, Ingersoll's previous cast iron grade, TT7310, will be phased out as existing stock is depleted.**

APPLICATION RANGE



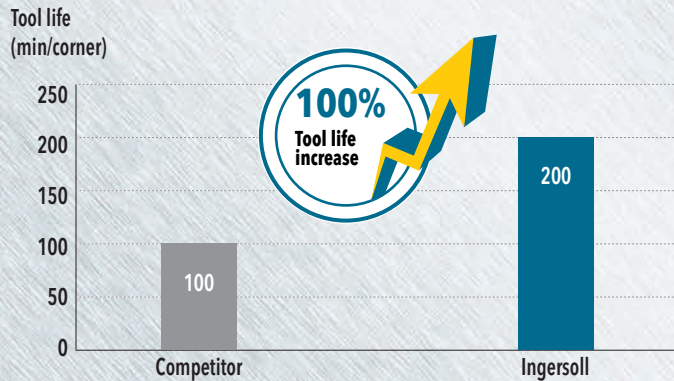
STABLE WEAR CONDITION

CNMA 432(120408), GGG40 (FCD400, ductile cast iron), V 690 sfm, f .012 ipr, ap .080", wet



CASE STUDY #1

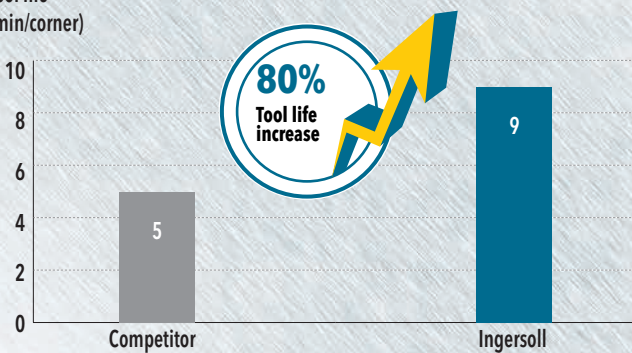
		Competitor	Ingersoll
Component		Disk brake	
Workpiece material		Gray cast iron (FC250)	
Operation		Facing	
Insert		CNMG 432	CNMG 432 KT TT7015 <i>GOLD LIFE⁺</i>
Cutting speed	V (sfm)	1300	1300
Feed rate	f (ipr)	.024	.024
Depth of cut	ap (in)	.020	.020
Coolant		wet	wet
Tool life (min/corner)		100	200



CASE STUDY #2

		Competitor	Ingersoll
Component		Front hub	
Workpiece material		Ductile cast iron	
Operation		Facing	
Insert		CNMG 432	CNMG 432 KTTT7015 GOLDOLIFE+
Cutting speed	V (sfm)	930	930
Feed rate	f (ipr)	.012	.012
Depth of cut	ap (in)	.047	.047
Coolant		wet	wet
Tool life (min/corner)		5	9

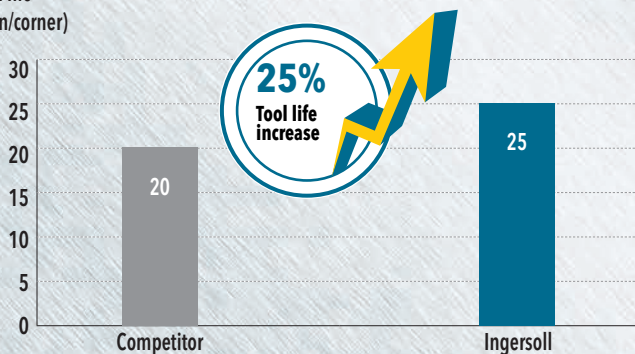
Tool life
(min/corner)



CASE STUDY #3

		Competitor	Ingersoll
Component		Differential case	
Workpiece material		Ductile cast iron	
Operation		Facing	
Insert		CNMG 433	CNMG 433 KTTT7015 GOLDOLIFE+
Cutting speed	V (sfm)	900	900
Feed rate	f (ipr)	.012	.012
Depth of cut	ap (in)	.080	.080
Coolant		wet	wet
Tool life (min/corner)		20	25

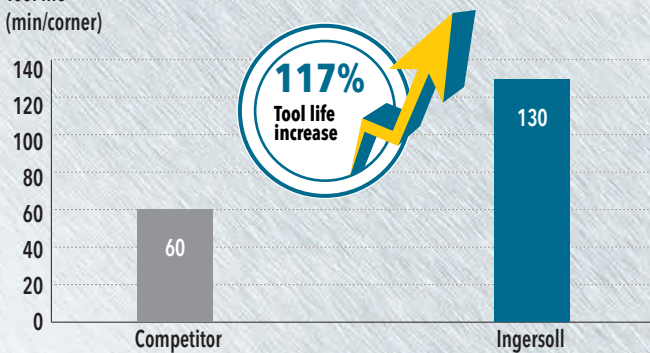
Tool life
(min/corner)



CASE STUDY #4

		Competitor	Ingersoll
Component		Differential case cover	
Workpiece material		Ductile cast iron	
Operation		Internal roughing	
Insert		CNMG 432	CNMG 432 KTTT7015 GOLDOLIFE+
Cutting speed	V (sfm)	1280	1280
Feed rate	f (ipr)	.010	.010
Depth of cut	ap (in)	.120	.120
Coolant		wet	wet
Tool life (min/corner)		60	130

Tool life
(min/corner)



CASE STUDY #5

		Competitor	Ingersoll
Component		Cam plate	
Workpiece material		Ductile cast iron	
Operation		Rough facing	
Insert		CNMG 432	CNMG 432 KTTT7015 GOLDOLIFE+
Cutting speed	V (sfm)	1250	1250
Feed rate	f (ipr)	.006	.006
Depth of cut	ap (in)	.032	.032
Coolant		wet	wet
Tool life (min/corner)		6	8

Tool life
(min/corner)

