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MNL

Marketing News Letter No. 2016-06

TT7015 Life+

An Improved CVD Coating Grade for Cast Iron Machining

TaeguTec
Member IMC Group

KEY POINT

TaeguTec is pleased to launch an improved TT7015 Life+ turning grade with better wear resistance and toughness for cast iron machining.

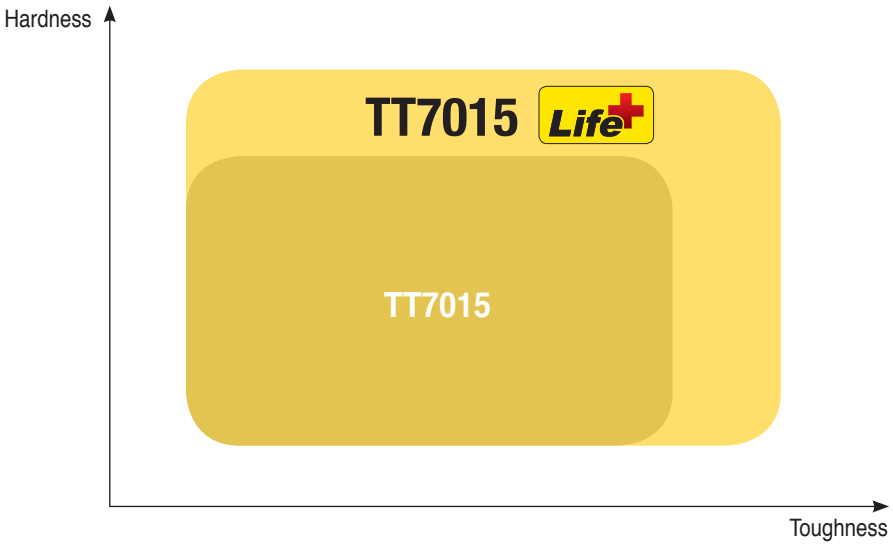
The machining of cast iron material has a tendency to generate deviation during operation due to the nature of the material. Moreover, the usage of ductile cast iron has grown as a trend. TaeguTec has introduced an improved **TT7015 Life+** grade for cast iron machining in order to address these twin issues.
The improved grade provides higher stability on a wide range of applications and generates longer tool life due to the grade's anti-chipping capability.

The current **TT7015** grade will be phased out and replaced by the **TT7015 Life+** grade when stock is depleted with the current item designation remaining unchanged. The improved grade will also replace the **TT7310** grade when stock is depleted.

Features

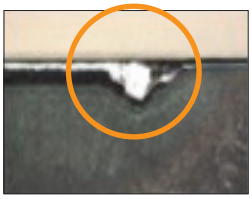
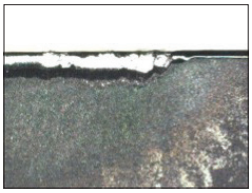
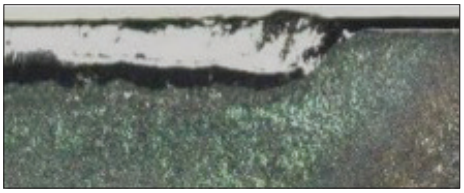
- Suitable for general purpose machining of gray cast iron and ductile cast iron
- Advanced coating and substrate design enables improved wear resistance and toughness
- High anti-chipping capability means stable tool life
- Unexpected insert failure minimized even under interrupted cutting conditions
- Excellent surface roughness during machining due to its fine coating layer

Application range



Stable wear condition

CNMA 120408, GGG40 (FCD400, ductile cast iron), V 210m/min, f 0.3mm/rev, ap 2.0mm, wet

	After 15 passes	
TT7015	 	 Severe notch wear
TT7015 Life+	 	 Stable wear

New packaging

Current

Replacement

* Package illustrated with Life+ grade.

Availability
In stock

Price
Available in the GAL system

Sincerely,
TaeguTec

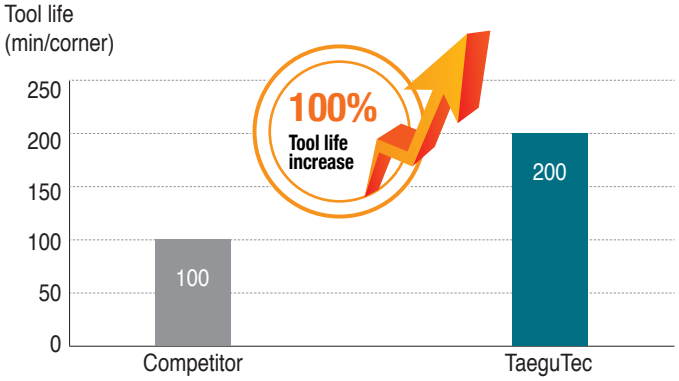
Park Hong-sik
Non-Rotating Product Manager

Sincerely,
TaeguTec

Bae Dae-wi
Turning Product Manager

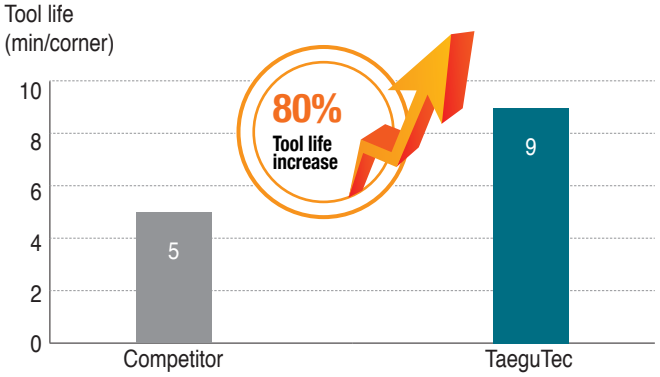
Case study 1

		Competitor	TaeguTec
Component		Disk brake	
Workpiece material		Gray cast iron (FC250)	
Operation		Facing	
Insert		CNMG 120408	CNMG 120408 KT TT7015 Life+
Cutting speed	V (m/min)	400	400
Feed rate	f (mm/rev)	0.6	0.6
Depth of cut	ap (mm)	0.5	0.5
Coolant		wet	wet
Tool life (min/corner)		100	200



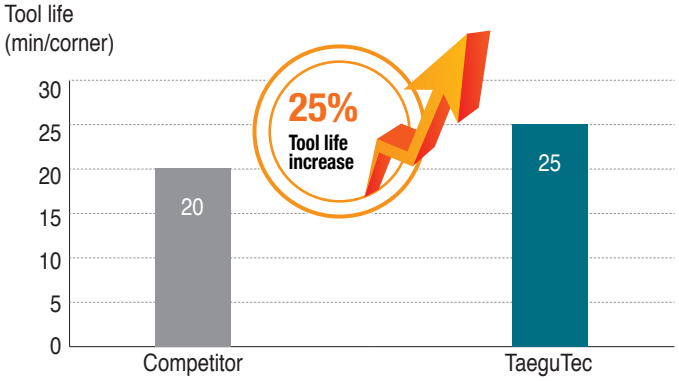
Case study 2

		Competitor	TaeguTec
Component		Front hub	
Workpiece material		Ductile cast iron	
Operation		Facing	
Insert		CNMG 120408	CNMG 120408 KT TT7015 Life+
Cutting speed	V (m/min)	285	285
Feed rate	f (mm/rev)	0.3	0.3
Depth of cut	ap (mm)	1.2	1.2
Coolant		wet	wet
Tool life (min/corner)		5	9



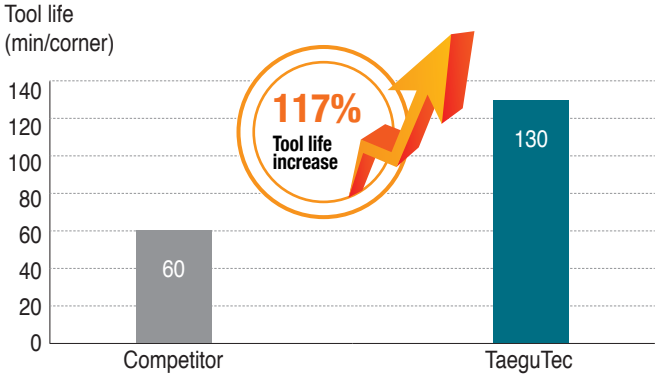
Case study 3

		Competitor	TaeguTec
Component		Differential case	
Workpiece material		Ductile cast iron	
Operation		Facing	
Insert		CNMG 120412	CNMG 120412 KT TT7015 Life+
Cutting speed	V (m/min)	275	275
Feed rate	f (mm/rev)	0.3	0.3
Depth of cut	ap (mm)	2.0	2.0
Coolant		wet	wet
Tool life (min/corner)		20	25



Case study 4

		Competitor	TaeguTec
Component		Differential case cover	
Workpiece material		Ductile cast iron	
Operation		Internal roughing	
Insert		CNMG 120408	CNMG 120408 KT TT7015 Life+
Cutting speed	V (m/min)	390	390
Feed rate	f (mm/rev)	0.25	0.25
Depth of cut	ap (mm)	3.0	3.0
Coolant		wet	wet
Tool life (min/corner)		60	130



Case study 5

		Competitor	TaeguTec
Component		Cam plate	
Workpiece material		Ductile cast iron	
Operation		Rough facing	
Insert		CNMG 120408	CNMG 120408 KT TT7015 Life+
Cutting speed	V (m/min)	380	380
Feed rate	f (mm/rev)	0.15	0.15
Depth of cut	ap (mm)	0.8	0.8
Coolant		wet	wet
Tool life (min/corner)		6	8