December 2019
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1/6

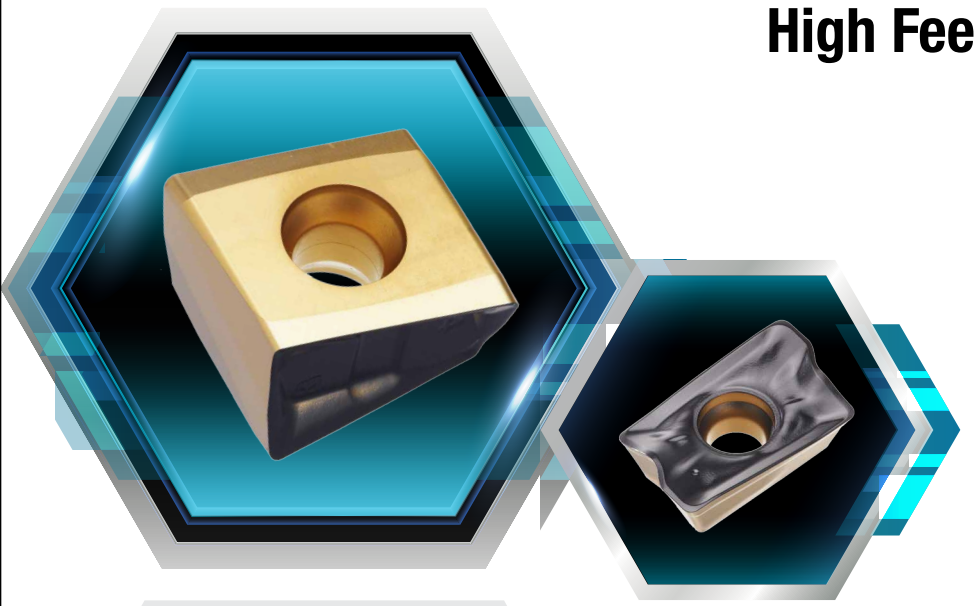
NPA

New Product Announcement No. 2019-50

new

TT8525

New Optimized Grade for General Purpose, High-Speed and High Feed Machining of Steel



ADVANCE MACHINING
TaeguTec Industry 4.0

INDUSTRY 4.0
TaeguTec
Member IMC Group

KEY POINT

TaeguTec has launched a new grade for general purpose, high-speed and high feed machining of steel — the TT8525 grade.

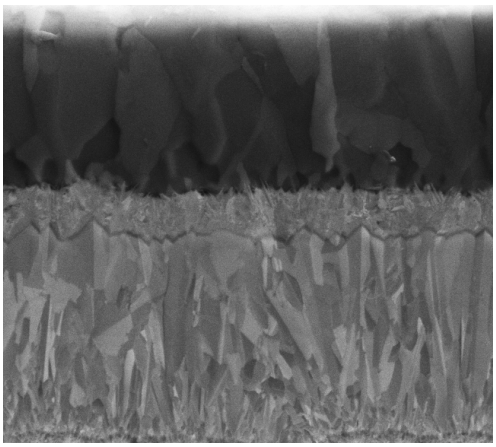
The new **TT8525** grade for milling applications, combines an ultra-high toughness substrate with Al_2O_3+TiCN CVD coating which has excellent wear resistance. This ensures optimal performance for high-speed and high feed machining, as well as general purpose processing of steel.

This line of black colored inserts' top surface is treated with a state-of-the art coating technology with post treatment that minimizes friction during machining. Thus, it provides excellent stability even in high-speed, high feed machining conditions.

This new grade replaces the existing TT7800 grade.

Features

- Optimized for high-speed and high feed machining of steel
- Ensures stable tool life with consistent wear in unstable conditions
- Wide applications – roughing and medium, dry and wet machining



Minimized friction due to the newest surface treatment technology

Al_2O_3 layer for better heat resistance

Uniform and stable adhesive layer

TiCN layer for high hardness and high toughness

Availability

In stock

Price

Available in the GAL system

Sincerely,
TaeguTec

Cho Yeo-myeong
Rotating General PM

Sincerely,
TaeguTec

Lee Jae-wook
Milling Product Manager

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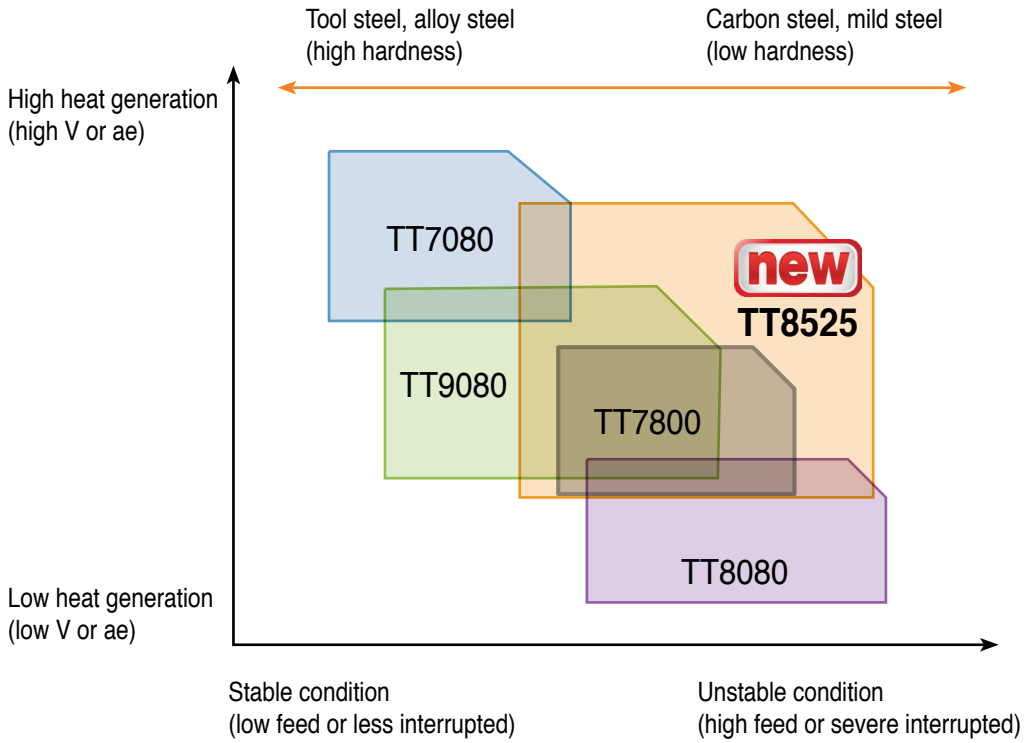
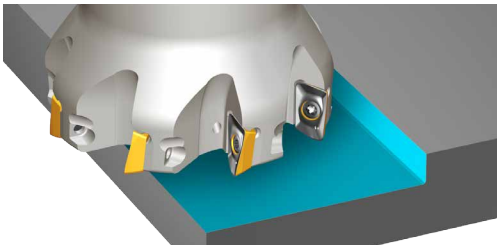
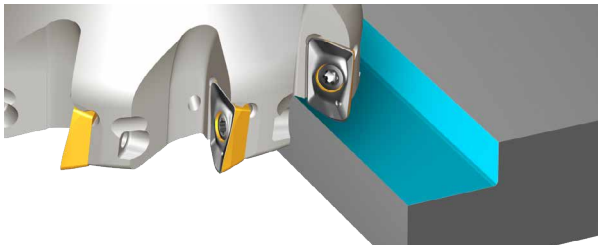
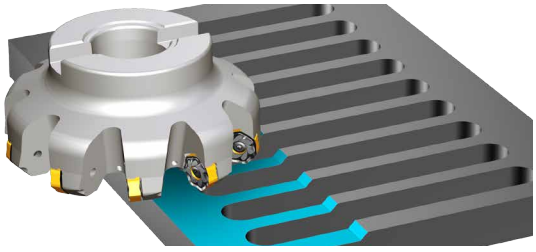
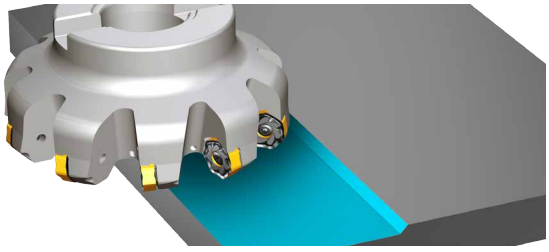
Application range (milling, steel)

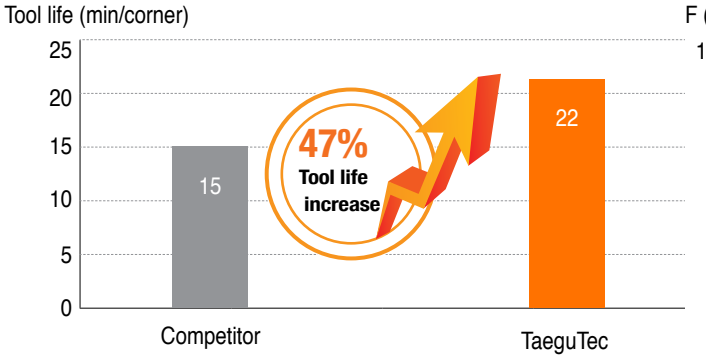


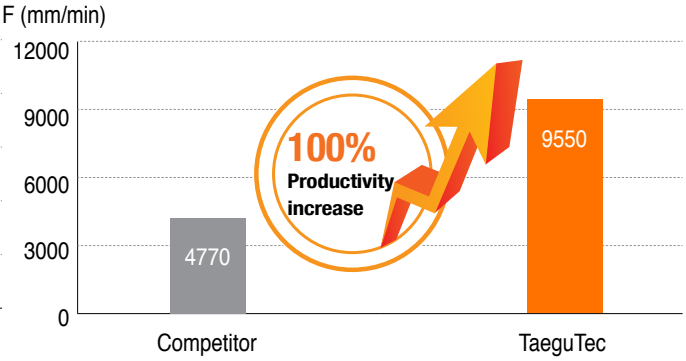
TT8525's recommended applications

High ae / high heat generation ★★★	Low ae / low heat generation ★☆☆
	
Severe interrupted / unstable ★★★	**Less interrupted / stable ★★☆**
	

Case study 1

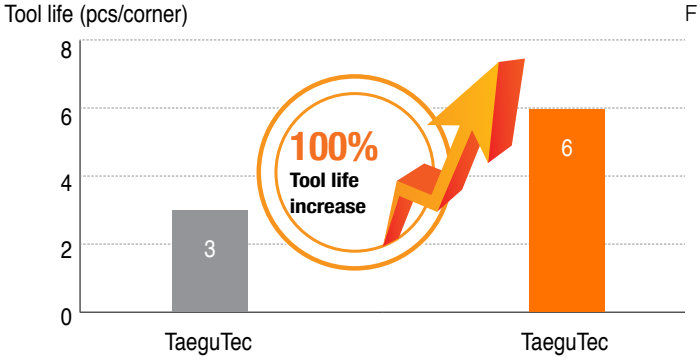
		Competitor	TaeguTec
Material		AISI 4140, 42CrMo4	
Cutter		Ø40, 3z high feed cutter	TEBL 440-32-11-L200 (Ø40, 4z)
Insert		High feed insert	BLMP 1105R-M TT8525
Cutting Speed	V (m/min)	200	250
RPM		1560	2000
Feed	f (mm/tooth)	1	1.2
	F (mm/min)	4770	9550
Depth of cut	ap (mm)	2	2
Width of cut	ae (mm)	29	29
Coolant		Dry	Dry
Tool life (min/corner)		15	22

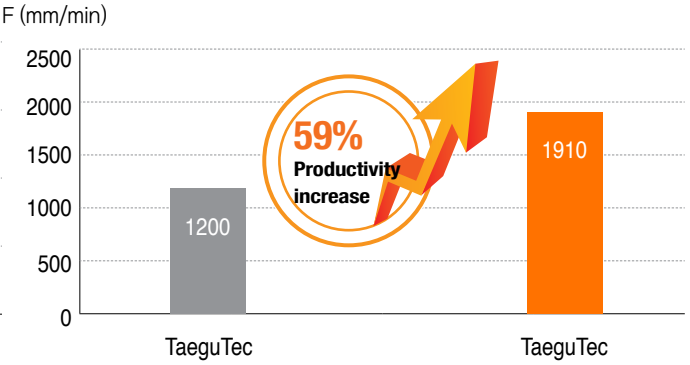




Case study 2

		TaeguTec	TaeguTec
Material		DIN E335 (1.0060)	
Cutter		Ø50, 2z tailor-made cutter	Ø50, 2z tailor-made cutter
Insert		SBMT 130612R-MR TT7800	SBMT 130612R-MR TT8525
Cutting Speed	V (m/min)	220	300
RPM		1400	1910
Feed	f (mm/tooth)	0.43	0.5
	F (mm/min)	1200	1910
Depth of cut	ap (mm)	20	20
Coolant		Dry	Dry
Tool life (pcs/corner)		3	6





Existing TT7800 item list

The TT8525 grade will be supplied when our current stock of TT7800 grade inserts run out. Also note, TT7800's stock code no. 8 and 9 items (special products) will be changed to TT8525 after they are exhausted.

Designation	
ANHX 110608R-M	TT7800
ANHX 110608R-SM	TT7800
ANHX 1607 ANR-M	TT7800
ANHX 160708R-M	TT7800
ANHX 160708R-ML	TT7800
ANHX 160708R-MR	TT7800
ANHX 160708R-SM	TT7800
ANHX 160724R-M	TT7800
APKT 09T3 PER-EM	TT7800
APKT 1204 PER-EM	TT7800
APKT 1204 PER-SM	TT7800
APKT 120416R-EM	TT7800
APKT 120430R-EM	TT7800
APKT 1604-REM	TT7800
APKT 160408 PDTR	TT7800
APKT 1705 PER-EL	TT7800
APKT 1705 PER-EM	TT7800
APKT 1705 PER-SM	TT7800
APKT 170524R-EM	TT7800
APKT 170532R-EM	TT7800
APKT 170548R-EM	TT7800
APKT 1706 PER-EM	TT7800
APKT 190712R-M	TT7800
APKT 190712R-MR	TT7800
BLMP 0603R-M	TT7800
BLMP 0904R-M	TT7800
BLMP 1306R-M	TT7800
BLMP 1306R-MM	TT7800
BLMP 1306R-MR	TT7800
CNHX 131108T	TT7800
CNHX 160608T	TT7800
HNHX 1006ANTN-M	TT7800
LPE 435 R100	TT7800
LSE 446 R01	TT7800
OFCN 0704 TN-EMR	TT7800
OFCR 0704 TN-EML	TT7800
OFCT 05T3 TN-EM	TT7800
OFMR 0704 AER-M	TT7800
OFMT 05T3 TN-ML	TT7800

Designation	
PLNG 090408R-M	TT7800
RBEX 50-M	TT7800
RBEX 50-MM	TT7800
RBEX 50-MR	TT7800
RNMU 1004-ML	TT7800
RNMU 1004S-M	TT7800
RNMU 1205-ML	TT7800
RNMU 1205S-M	TT7800
RNMU 1606-ML	TT7800
RNMU 1606S-M	TT7800
RTMX 1205-5ML	TT7800
RTMX 1205-5MLL	TT7800
RTMX 1205-5MM	TT7800
RXMX 12T3-M	TT7800
RXMX 12T3-ML	TT7800
RXMX 1604-M	TT7800
RXMX 2006-M	TT7800
RYMX 0803-M	TT7800
RYMX 0803-ML	TT7800
RYMX 0803-MR	TT7800
RYMX 1004-M	TT7800
RYMX 1004-ML	TT7800
RYMX 1205-M	TT7800
RYMX 1205-ML	TT7800
RYMX 1205-MM	TT7800
RYMX 1606-M	TT7800
RYMX 1606-ML	TT7800
RYMX 1606-MR	TT7800
RYMX 1606-7M	TT7800
RYMX 2007-M	TT7800
RYMX 2007-ML	TT7800
RYMX 2007-MR	TT7800

Designation	
SBMT 090415R-M	TT7800
SBMT 090415R-MR	TT7800
SBMT 130625R-M	TT7800
SBMT 130625R-MR	TT7800
SCKN 2107 DDTR-HE	TT7800
SCKN 2107 DDTR-HS	TT7800
SCKN 2708 DDTR-HE	TT7800
SCKN 2708 DDTR-HS	TT7800
SEKT 12T3 AFTN-M	TT7800
SEKX 2107 PETL-M	TT7800
SEKX 2107 PETR-M	TT7800
SEMT 1304 PETR-M	TT7800
SNGX 1306 ANTN-M	TT7800
SNGX 1306 ENTN-M	TT7800
SNGX 130616-M	TT7800
SNMX 1205 XTN	TT7800
SNMX 1306 ANTN-M	TT7800
SNMX 1306 ANTR-MP	TT7800
SNMX 1306 ENTN-M	TT7800
SNMX 1607 ANTN-M	TT7800
SNMX 1607 ANTR-MP	TT7800
SPKN 1203 EDTR-HP+	TT7800
SPKN 1504 EDTR-HP+	TT7800
SPKR 1504 EDTR-EM	TT7800
SPKT 1205 AFTR-HE	TT7800
SPKT 1205 EDTR-HE	TT7800
SPKT 1506 AFTR-HE	TT7800
SPKT 1506 EETR-HE	TT7800
SPMT 120408 RBE	TT7800
SPMT 140508-EM	TT7800
TNGX 2207 PNTN	TT7800
TNMX 1806 PNTR-M	TT7800
TNMX 1806 PNTR-SMR2	TT7800
TNMX 1806 PNTR-SMR3	TT7800
TNMX 2207 PNTN	TT7800
TPKT 2206 PDTR-HE	TT7800
XDMX 08T310R-M	TT7800
XNHU 0906 ANTN-MM	TT7800
XNMU 0906 ANTN-ML	TT7800
XNMU 0906 ANTR-M	TT7800

Designation	
ZNHT 018-04	TT7800
ZNHT 023-04	TT7800
ZNHT 028-04	TT7800
ZNHT 033-04	TT7800
ZNHT 033-08	TT7800
ZNHT 038-04	TT7800
ZNHT 038-08	TT7800
ZNHT 043-04	TT7800
ZNHT 043-08	TT7800
ZNHT 048-04	TT7800
ZNHT 048-08	TT7800
ZNHT 053-04	TT7800
ZNHT 053-08	TT7800
ZNHU 080-08	TT7800
ZNHU 110-08	TT7800
ZNHU 140-08	TT7800
2FB160-M	TT7800
2FB200-M	TT7800
2FB250-M	TT7800
2FB300-M	TT7800
2FB320-M	TT7800
3FB320C-M	TT7800
3FB320P-M	TT7800
3FB500C-M	TT7800
3FB500P-M	TT7800
3PKT 150508R-M	TT7800
3PKT 150508R-SM2	TT7800
3PKT 150508R-SM3	TT7800
3PKT 190608R-M	TT7800
3PKT 190608R-SM2	TT7800
3PKT 190608R-SM3	TT7800
3PKT 190616R-M	TT7800
6NGU 060408R-M	TT7800
6NGU 090508R-M	TT7800
6NGU 090516R-M	TT7800
6RBE 50-M	TT7800