

NPA

April 2016
www.taegutec.com



New Product Announcement No. 2016-07



TT8080

**The Perfect Choice for Superior Performance
on Stainless Steel and High Temperature Alloys**



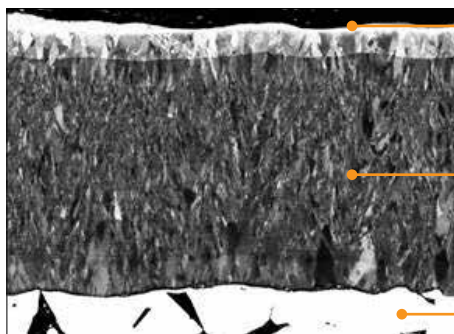
KEY POINT

TT8080 – An excellent PVD coated grade for superior performance in turning of stainless steel and high temperature alloys.

The **TT8080** grade has been adapted to turning applications and is particularly well suited for stainless steel and high temperature alloys machining. Characterized by excellent toughness and high anti-chipping capability, the **TT8080** grade is the perfect choice for interrupted and rough machining.

Compared to the existing TT8020 grade, the **TT8080** grade guarantees longer tool life and higher machining stability due to improved wear resistance.

Features



Prevents occurrence of built-up-edge due to special surface treatment

Crack resistant coating

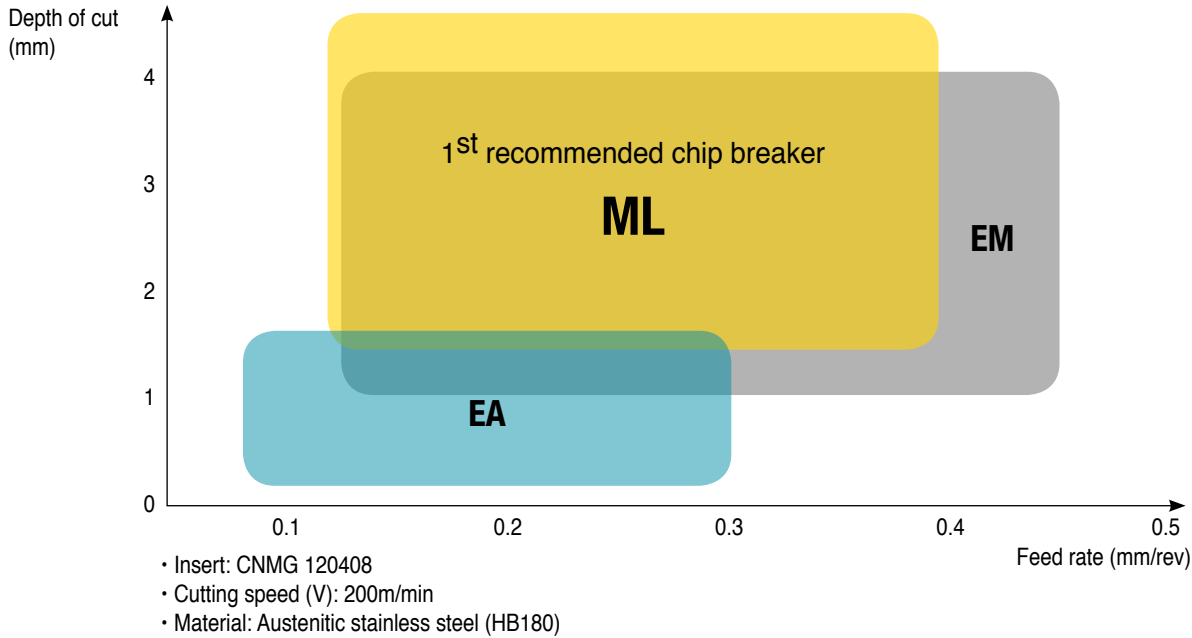
Toughened substrate

- Excellent machining performance for stainless steel under low cutting speed and interrupted cutting conditions
- The latest coating technology with enhanced wear resistance for long tool life
- Eliminates coating layer delamination because of the strong coating adhesion

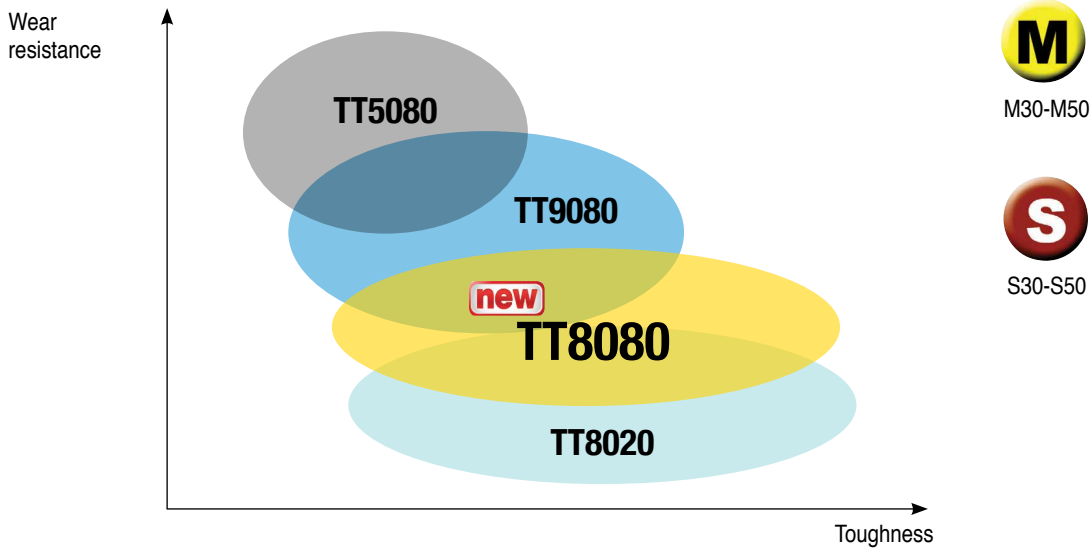
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TT8080

TT8080 grade chip breaker range



PVD coating application range



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

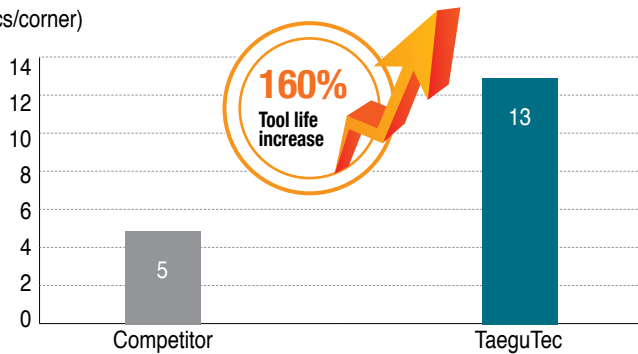
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TT8080

Case study 1

		Competitor	TaeguTec
Component		Valve body	
Workpiece material		SUS 316 (1.4436)	
Operation		Interrupted facing	
Insert		CNMG 120408	CNMG 120408 ML TT8080
Cutting speed	V (m/min)	75-95	75-95
Feed rate	f (mm/rev)	0.12-0.15	0.12-0.15
Depth of cut	ap (mm)	2	2
Coolant		wet	wet
Tool life (pcs/corner)		5	13

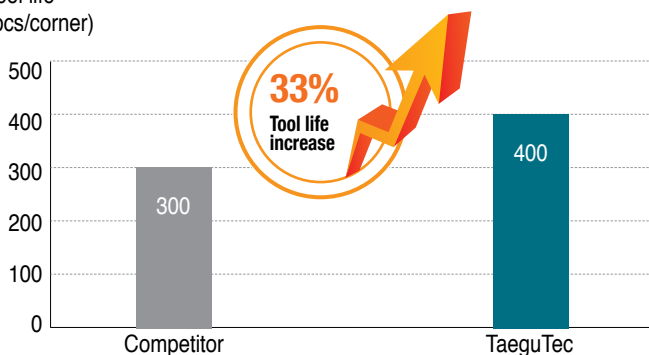
Tool life
(pcs/corner)



Case study 2

		Competitor	TaeguTec
Component		Ring	
Workpiece material		SUS 316 (1.4436)	
Operation		External continuous	
Insert		CNMG 120404	CNMG 120404 ML TT8080
Cutting speed	V (m/min)	250	250
Feed rate	f (mm/rev)	0.2	0.2
Depth of cut	ap (mm)	0.5	0.5
Coolant		wet	wet
Tool life (pcs/corner)		300	400

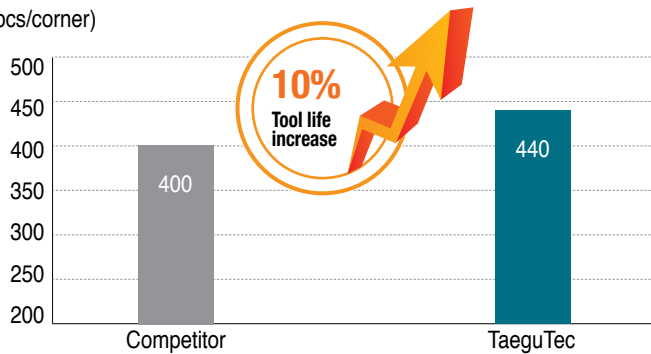
Tool life
(pcs/corner)



Case study 3

		Competitor	TaeguTec
Component		Pipe fitting (Hexa)	
Workpiece material		SUS 316 (1.4436)	
Operation		External interrupted	
Insert		CNMG 120408	CNMG 120408 EM TT8080
Cutting speed	V (m/min)	90	90
Feed rate	f (mm/rev)	0.25	0.25
Depth of cut	ap (mm)	2	2
Coolant		wet	wet
Tool life (pcs/corner)		400	440

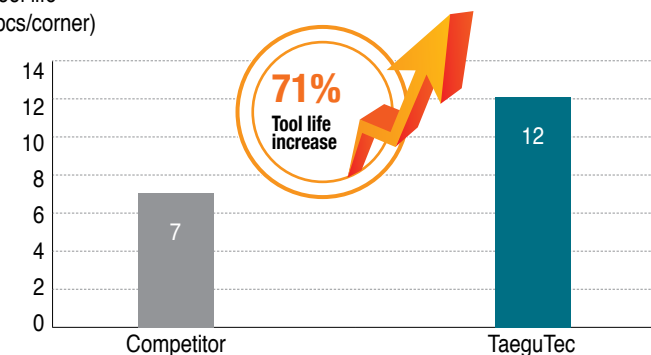
Tool life
(pcs/corner)



Case study 4

		Competitor	TaeguTec
Component		Pipe fitting (2 inch hexa)	
Workpiece material		SUS 316 (1.4436)	
Operation		External interrupted	
Insert		CNMG 120408	CNMG 120408 ML TT8080
Cutting speed	V (m/min)	94	94
Feed rate	f (mm/rev)	0.15	0.15
Depth of cut	ap (mm)	1.0-4.0	1.0-4.0
Coolant		wet	wet
Tool life (pcs/corner)		7	12

Tool life
(pcs/corner)



TT8080 grade item list

Designation
CNMG 120404 EA TT8080
CNMG 120404 EM TT8080
CNMG 120404 ML TT8080
CNMG 120408 EM TT8080
CNMG 120408 ML TT8080
CNMG 120412 ML TT8080
DNMG 150604 EA TT8080
DNMG 150604 ML TT8080
DNMG 150608 EM TT8080
DNMG 150608 ML TT8080
TNMG 160404 EA TT8080
TNMG 160404 ML TT8080
TNMG 160408 EM TT8080
TNMG 160408 ML TT8080
WNMG 080404 EA TT8080
WNMG 080404 EM TT8080
WNMG 080408 EM TT8080
WNMG 080408 ML TT8080