

Times Of Change

Gold Rush is here !

TaeguTec has always strived to develop innovative products that enable customers to achieve exceptional productivity levels while reducing costs and improving component quality. As part of its ongoing product development, TaeguTec is now proud to introduce a series of ingenious new products that are the results of this endeavour !

TaeguTec confidently unveils its new signature series **Gold Rush** . The new series with original tooling concepts will help our customers to strike gold in their machining applications. We have worked tirelessly on every aspect of our new product range ; working closely with customers and industry experts, we have challenged our R&D team and tested our developments strenuously.

As a result, the new product range includes a new series that will undoubtedly deliver remarkable results for our customers.

We believe that our customers' growth and success is the barometer of our own growth and success. At the same time, we know that the only way to achieve such success is to continually pioneer superior quality products and solutions.

This is how team TaeguTec envisions its golden future !

Come, join the Gold Rush !!



Dear
Customer

Year 2011 started with Imtex 2011. This flagship event in South-east Asia, was a great success with overwhelming participation from exhibitors from India and abroad and a large number of visitors representing user industries.

TaeguTec showcased our range of products under 'GOLD RUSH' umbrella. Possibly one of the biggest display of new products, technologies and solutions for metal cutting was in the show. Products were genuinely new generation products and they were unveiled in IMTEX 2011 in India, as world premiere! This also reflects gaining importance of India in the scheme of things in the TaeguTec group.

Customers were delighted by these products and were keen to learn about their potential to increase productivity and reduce the cost. These products are, today, widely tested across the segments of users and have set new bench marks in productivity.

In this issue, we present some of the Gold Rush products with test results in India and across the world.

If you have not tested these products, please rush. They are guaranteed to produce dramatic improvement in majority of applications. Our engineers will be pleased to assist you.

We started to celebrate the 'Decade of Excellence' in India.

We had Mr. Warren E Buffett, Chairman, Berkshire Hathaway and with over 80% ownership in IMC group, visiting us in March along with IMC management team to commemorate the occasion. We had many private and public events coinciding with his visit.

Employees, customers and industrialists were amazed by his simplicity, sense of humour and clarity in thinking! Every interactive event was a great success leaving lasting impression in the mind of the participants!

We were indeed privileged to have him and IMC management team to celebrate our 10th anniversary.



We are, as always, deeply indebted to our customers who have stood behind us and supported us right through this journey! We rededicate ourselves to serve our customers.

Thanks once again.

A handwritten signature in black ink, appearing to read 'L. Krishnan'.

L. Krishnan
Managing Director

New technology that works wonders on the cutting edge

GOLD-RUSH
Grades

TaeguTec New



New

A Star Is Born

Features

- Stable and extended tool life when conducting continuous and interrupted machining
- Reduced cutting friction and minimized built-up edge on exotic materials
- Excellent surface finish on the workpiece
- Improved adhesion and insert chipping resistance

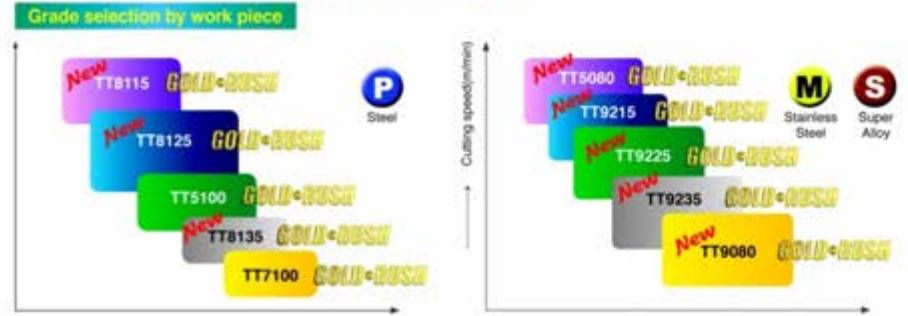
The ingenious solution that takes cutting tool materials to the next level

TaeguTec introduces its brand new Gold Rush insert grade. The new grade has been developed using our extensive cutting edge technology and expertise.

The new grade, distinctly coated with a gold colouring and with an unique surface treatment, guarantees improved performance while enabling users to conveniently measure the insert wear status. This new grade is now available for all TaeguTec insert ranges, such as the T-Turn, T-Clamp, the Hole Making series and the T-Mill.

This exciting new grade will without a doubt, mark TaeguTec's respected position as a market leader and will be a signature grade for the future.

GOLD-RUSH Grades for T-Turn Applications



Gold Rush grades for steel applications

Gold Rush grades for stainless steel and high-temp alloy applications

New

TURN•RUSH

Introducing
New Solutions
For
Heavy
Duty
Turning

HB Chipbreaker

- Low cutting forces and an optimized chipbreaker suitable for semi heavy machining
- Hook lever clamping system gives unique contact surface with large convex
- Double sided insert
- Unique insert and shim profile offer maximum stability in semi-heavy machining
- 3 dimensional geometry that is exchangeable with the ISO standard holder



Conventional Lever Type



Hook Lever Type



TURN•RUSH Test Report

Test 1

Part name	Cylinder liner
Material	Alloy steel
Cutting speed (Vc)	40m/min
Feed (f)	0.58mm/rev
Depth of cut (ap)	5.0mm
Operation	External turning
Tool life	
Competitor	A company (CNMM) 80%
TaeguTec	CNMX 160712 HB, TT8115 100%

 **20%**
Tool life
Increase

Test 2

Part name	Roller
Material	0.45% carbon steel
Cutting speed (Vc)	150m/min
Feed (f)	0.52mm/rev
Depth of cut (ap)	7.0mm
Operation	External turning
Tool life	
Competitor	B company (CNMG) 40min
TaeguTec	CNMX 160712 HB, TT8115 48min

 **20%**
Tool life
Increase

Test 3

Part name	Ring
Material	Alloy steel
Cutting speed (Vc)	180m/min
Feed (f)	0.4 ~0.45mm/rev
Depth of cut (ap)	4.0mm
Operation	External turning
Tool life	
Competitor	C company (CNMG) 1 pass/corner
TaeguTec	CNMX 160712 HB, TT8115 2 pass/corner

 **100%**
Tool life
Increase

Up to 100% increase in Tool Life !



Introducing

EM Chipbreaker

For Stainless Steel Machining



Semi-finished to medium turning !

- New sharp land design of the EM chipbreaker reduces machining load during medium machining applications and minimises built-up edges.
- Heat dissipation design on the upper side of the chipbreaker minimises heat generation on the cutting edge and thus, maximises tool life !



EA for Finishing



EM for Medium



ET for Roughing

Test Report



Test 1

Part name	Axle
Material	Stainless steel
Cutting speed (Vc)	165m/min
Feed (f)	0.25mm/rev
Depth of cut (ap)	2.0mm
Operation	External / Wet machining

Tool life

Competitor	WNMG 080408	15pcs/corner
TaeguTec	WNMG 080408 EM TT9225	20pcs/corner

Expansion

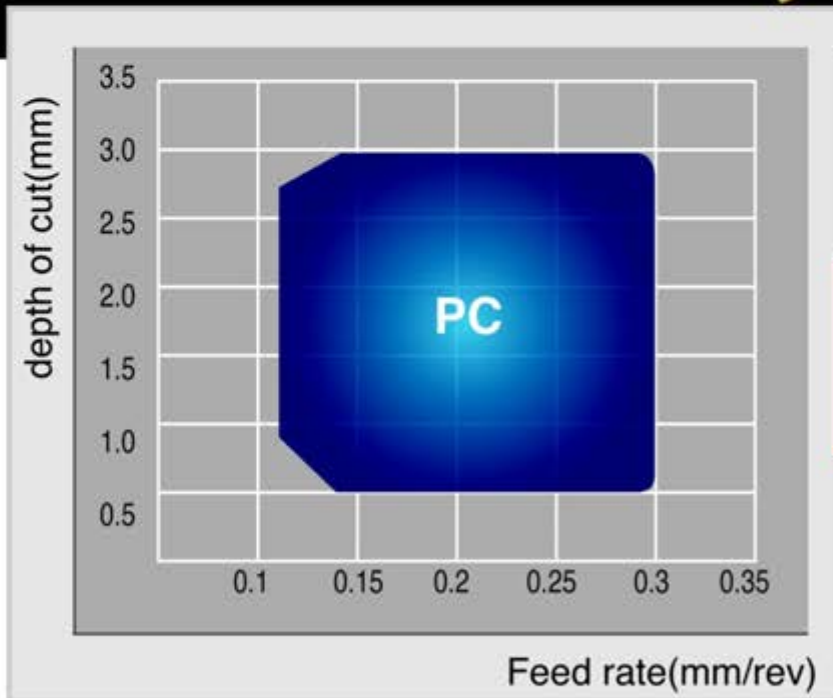
PC

Chipbreaker

TaeguTec, introduces a new chipbreaker for positive inserts with superior chip control !



Semi-finished to medium turning !



Chip Control Range

The new, single sided PC chipbreaker...

...Is suited for semi finished and medium machining applications similar to an existing double sided chipbreaker !

DRILLRUSH

New Head-changeable drill

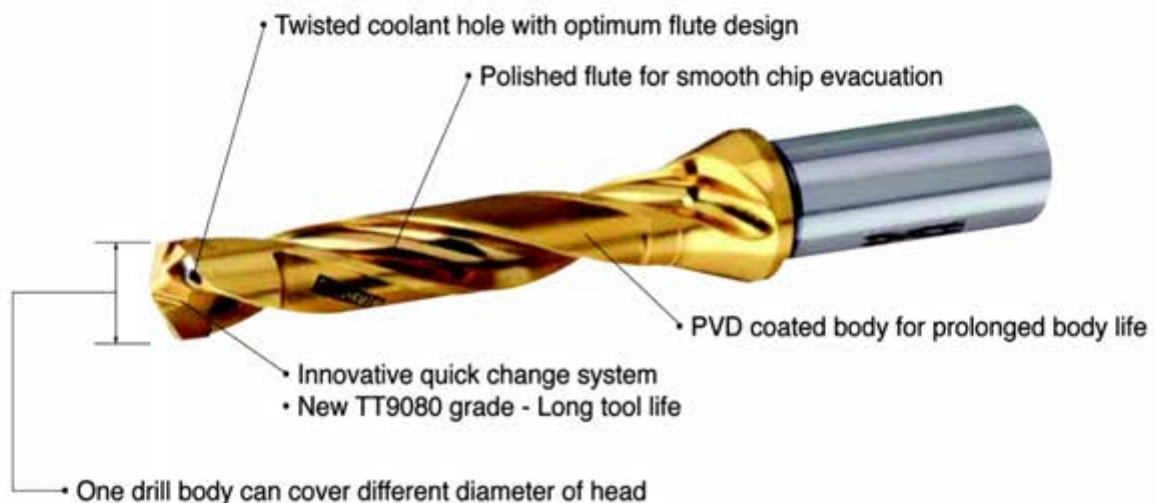


TaeguTec, the market leader in insert type indexable drills, is pleased to introduce the all new DRILLRUSH guaranteeing excellent performance and high productivity.

With optimized edge geometry, innovative clamping structure, the new DRILLRUSH shows remarkable performance compared to the existing solid carbide or other conventional drills. A user-friendly clamping mechanism including a clamping key enables easy and convenient drill head indexing on the machine spindle.

Engineered for precision, the DRILLRUSH body design ensures stable performance even after repeated head indexing; the cutting edge design together with twisted coolant channels aid high speed machining with improved productivity. The drill has other advantages as well, its PVD coated body means longer tool life while polished flutes allow smooth chip evacuation and high hole accuracy. New TT9080 grade multi-layered coating and special treatment of drill heads add to the tool's endurance.

Features



Test Report

Test 1

Machine	Machining center (Vertical/BT50)
Material	Alloy steel
Drill head	TCD-130-P TT9080(dia 13mm)
Holder	TCD 130-134-16T3-5D (5xD)
Condition	Internal coolant (10Bar), through hole

Drilled Hole Size



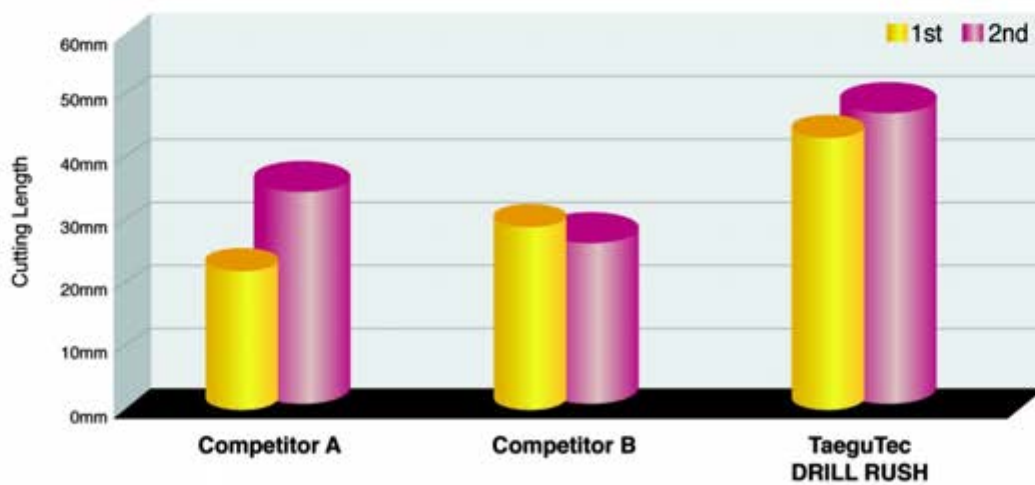
Surface finish (Ra)



Test 2

Machine	Machining center (Vertical/BT50)
Material	Alloy steel (AISI 4140)
Drill head	TCD-130-P TT9080(dia 13mm)
Holder	TCD 130-134-16T3-5D (5xD)
Condition	Internal coolant (10Bar), through hole

Speed(Vc) : 100m/min. Feed(f) : 0.25mm/rev. Depth (Ap) : 60mm



DRILL RUSH

Try Today !

MILLRUSH

Super high positive insert with 3 cutting edges



TaeguTec is pleased to introduce the next generation milling line, MILLRUSH - opening new possibilities in general milling, die & mold and aerospace applications. The new MILLRUSH line provides a highly productive true 90° milling solution with **3 helical cutting edge inserts** for improved economy; inserts that are thicker and stronger than conventional 2 edge inserts

Features

Cutter

- Internal coolant supply
- Cutter bodies do not require modification for insert mounting with corner radius
- High relief for ramp-down application
- Unique angled screw clamping gives increased insert stability
- A Helical cutting edge for 90 degree cutting

Insert

- Thick & unique geometry for high strength cutting
- Wiper for superb surface finish quality
- Super high positive axial rake for low cutting force
- Innovative cutting edge geometry for effective chip evacuation

Next generation
Helical Insert To Exceed
 Your Productivity
 Expectations

Test 1	TaeguTec	Competitor
Material	Steel structure (A36/ SS400)	Steel structure (A36/ Ss400)
Cutting speed (Vc)	126m/min	126m/min
Feed (f)	400mm/rev	300mm/tooth
Depth of cut (ap)	4.0mm	4.0mm
Radial depth of cut (Ae)	40mm	40mm
Tool	3P TE90-440-W32-15 D40mm, 4 teeth, 3 corners 3PKT 150508R-M TT7080	D40mm, 3 teeth, 2 corners
Tool life	4.5 pcs/ corner	3 pcs/ corner

 **Increased**
Tool life and
Feed rate

Test 2	TaeguTec	Competitor
Material	GGG40 (FCD440, Pump for ship)	GGG40 (FCD440, Pump for ship)
Cutting speed (Vc)	300m/min	200m/min
Feed (fz)	0.08mm/ tooth	0.06mm/tooth
Depth of cut (ap)	4.0mm	4.0mm
Radial depth of cut (Ae)	50mm	50mm
Tool	3P TE90-780-27R-15 D80mm, 7 teeth, 3 corners 3PKT 150508R-M TT6080	D80mm, 7 teeth, 2 corners
Tool life	13 pcs/ corner	10 pcs/ corner

 **Increased**
Tool life and
Feed rate

Test 3	TaeguTec	Competitor
Material	GG25 (Fe25)	GG25 (Fe25)
Cutting speed (Vc)	150m/min	150m/min
Feed (fz)	0.19mm/ tooth	0.19mm/tooth
Depth of cut (ap)	2.5mm	2.5mm
Tool	3P TE90-780-27R-15 D80mm, 7 teeth, 3 corners 3PKT 150508R-M TT6080	D80mm, 7 teeth, 2 corners
Tool life	9 pcs/ 3 corner	6 pcs/ 2 corner

 **Increased**
Tool life and
better surface
finish

Try Today!

MILL2RUSH

Double sided positive insert with 6 cutting edges



TaeguTec has launched its new MILL2RUSH cutter with 6 corner double-sided cutting edge insert, making it the first choice for shoulder milling. The MILL2RUSH is designed to provide an economical solution with a positive helical cutting edge that reduces cutting force and vibration, while offering an excellent surface finish.

This new cutter with 90° entering angle and various corner radii inserts with 6 cutting edges is recommended in applications of medium to small size workpiece machining using the options including end mill, modular or face mill type.

Features

Cutter

- Internal coolant supply
- Helical cutting edge for 90 degree cutting
- Dovetail mechanism clamping provides increased security and insert clamping

Total solution For Shoulder Milling

Insert

- Thick & unique geometry for high strength cutting
- Wider wiper flat gives the best surface finish
- Positive axial rake for low cutting force and smooth cutting
- Peripheral ground type for high precision machining
- Double sided 6 corner insert with helical geometry

Test Report

Test 1	TaeguTec	Competitor
Material	GG30 (FE30)	GG30 (FE30)
Cutting speed (Vc)	260m/min	260m/min
Feed (fz)	0.2mm/tooth	0.2mm/tooth
Depth of cut (ap)	2.0mm	2.0mm
Radial depth of cut (Ac)	90mm	90mm
Tool	6N TF90-6100-32R-09 D100mm, 6 teeth, 6 corners 6NGU 090508R-M TT6080	D80mm, 7 teeth, 6 corners
Tool life	5.5 m	2.8 m



Increased
Tool life

Test 2	TaeguTec	Competitor
Part name	Cylinder block	Cylinder block
Material	GG25 (FE25)	GG25 (FE25)
Cutting speed (Vc)	180m/min	180m/min
Feed (fz)	0.15mm/tooth	0.15mm/tooth
Depth of cut (ap)	4.0mm	4.0mm
Operation	Boss Milling	Boss Milling
Radial depth of cut (Ac)	30mm	30mm
Tool	6N TF90-650-22R-06 D50mm, 6 teeth, 6 corners 6NGU 060408R-M TT6080	D50mm, 7 teeth, 4 corners
Tool life	700 pcs/ corner	600 pcs/ corner



Increased
Tool life

MILL 2 RUSH

Try Today!

TOP MINI

For Small Component Machining

TaeguNews



With an ever increasing demand for machined medical implant devices and micro-size electronic components, TaeguTec introduces a new range of inserts and boring bars suitable for turning small work pieces !

Main Features : Sharp cutting edges enable precision turning at low cutting forces and vibration. Guarantees excellent surface finish !

TOP MINI insert

- Produced in two insert types - ground and pressed-to-size
- Micro size Insert (IC=3.97, 4.76mm)
- Excellent surface finish prevents micro chipping and prolongs tool life
- Available in both right-hand and left-hand operation types

TOP MINI boring bar

- Improves chip evacuation
- Stable machining with reduced chatter
- Bore machining as small as 6mm diameter possible
- Shanks available in steel and carbide
- Special design near the joints ensures improved durability

New
Boring
Bar
& Insert

Try
Today !

Bangalore

2011 **IMTEX**
Moments



Thank You For Coming.



Memorable Events

Mr Warren Buffett visits TaeguTec, India



Namaste Bengaluru !
Mr Warren Buffett and Mr Eitan Wertheimer.



Saying it with flowers !
Mr Warren Buffett and Mr L. Krishnan.



Launching Gold Rush Series



Royal perspective !
Mr Jacob Harpaz.



Chennai



Coimbatore



More such exciting events will follow !!

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