

Taegu News



TAEGUTEC INDIA EMAIL NEWSLETTER

Case Study

DRILL RUSH

RUSH 2 FLUTE

DRILL-RUSH P+: The Ultimate Drilling Solution for Lower Cost and Higher Productivity!

The Customer Challenge

Our customers often struggle with finding a reliable and efficient drilling solution for their existing machines. In this case study, the customer was making a hole of 20mm diameter and 165mm depth on a Bearing Cap component. The following were the challenges faced by the customer:

- Long cycle time
- High tool cost
- Tool breakage and inconsistency
- Poor hole quality and accuracy

The customer was looking for a way to reduce their machining time, save their tool cost, prevent tool failure, and ensure high hole precision and surface finish.





The TaeguTec Solution

We offered the customer SFEED-TEC's DRILL-RUSH P+, a head-changeable quick-change system with a unique self-centering cutting edge geometry that ensures excellent hole precision and surface finish. This tool can perform deep hole machining up to 12xD in one shot, reducing the processing time and increasing the productivity. The tool also has a rigid cutting edge design and the latest multi-layer coating grade that provides longer tool life and better wear resistance. The tool is suitable for steel and cast iron machining, covering a wide range of applications and materials.

Highlights of SFEED-TEC DRILL-RUSH P+ product

Unique self-centering cutting edge geometry that eliminates the need for a pilot hole

Premium hole quality in terms of surface roughness, cylindricity, and straightness

Deep hole machining up to 12xD in one step

Compatible with the existing standard drill body, making it an economic and versatile solution

We conducted a trial with the customer using the following parameters:

Offered TaeguTec tool

Insert: Drill rush unique P+ geometry self-centering geometry

Tool Holder: HSK-A63-DR-20-200

Parameter: Reduced tool changing and set up time, improved productivity, ensured repeatability in hole size and tool life

Parameter	Competition	TaeguTec Tool
Cutting Speed (m/min)	60	80
Table Feed (mm/min)	600	800
Depth of Cut (mm)	165	165
Material Removal Rate (CC/min)	5.65	10.64
Life per insert (nos)	10	20
Cut Time (sec)	16.5	12.375
CPC (Rs.)	100	20



Value Addition to the Customer

The customer achieved significant improvements in productivity, quality, and cost efficiency by using the TaeguTec tool due to its unique P+ geometry that is self-centering, leading to less tool change time and setting time.

Offered TaeguTec tool

- Reduction in CPC by 80%
- Productivity improvement by 172%
- Solved long chips and chips clogging issue during drilling operation
- Increased manufacturing capacity due to reduced overall cycle time
- Reduced machine downtime
- Resolved tool breakage and life variation issue

DRILL-RUSH P+: The productivity expert!

[For an Enquiry, click here](#)

