

TaeguTec News

TAEGUTEC INDIA EMAIL NEWSLETTER

Case Study

CHASE12MILL FACE MILLING

TaeguTec's CHASE-12-MILL: A Game-Changer for Face Milling Applications

The Customer Challenge

One of the challenges that our general engineering customers constantly face is the lack of a high productivity face milling solution for their existing set up. In this case study, the customer was looking into a face milling operation of an extruder plate (Material: Mild Steel). The following were the challenges faced by the customer:

- Issues in Finishing
- Productivity Loss
- Screw breakage on interrupted cut

The customer was looking for a way to improve their finishing quality, increase their productivity, and achieve continual improvement in their machining processes.





The TaeguTec Solution

SFEED-TEC's CHASE-12-MILL is a 45° entering angle cutter with a double-sided 12 corner insert that improves productivity in heavy machining and roughing applications. Its reinforced cutting edge inserts and optimized cutter design (semi-tangential positioning) is a reliable choice for high feed machining. The tool's maximum number of teeth offers significant productivity gains in facing applications of general steels and cast iron.

Highlights of SfeedTec Face Rush product

Double-sided 12 corner insert to improve productivity in heavy machining and roughing applications.

The high radially inclined angle provides excellent chip evacuation and minimizes vibration due to the increased cutter body's stiffness.

Acute cutter pocket design and inclined screw clamping enables robust clamping.

High radially inclined insert arrangement enables smooth machining and excellent chip evacuation.

This product delivers high reliability and productivity in high feed machining with a reinforced cutting edge insert and optimized cutter design (semi-tangential positioning).

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

Offered TaeguTec tool

Insert:
HXKU 0605 ANR-M TT8525B

Tool Holder:
12D-TF45-20160-40R-06

| Parameter | Competition | TaeguTec Tool |
|--------------------------------|-------------|---------------|
| Cutting Speed (m/min) | 225 | 250 |
| Table Feed (mm/min) | 1003 | 2488 |
| Depth of Cut (mm) | 1.2 | 2 |
| Material Removal Rate (CC/min) | 120 | 498 |
| Life per insert (nos) | 10 | 16 |
| Cut Time (sec) | 1148 | 309 |
| CPC (Rs.) | 1391.7 | 1186.3 |



Value Addition to the Customer

The customer achieved significant improvements in productivity, quality and cost efficiency by using the TaeguTec tool. With our we could achieve

- 73% increase in productivity.
- 15% reduction in cost per component.
- 60% drop in cut time

CHASE-12-MILL: The productivity expert!

[For an Enquiry, click here](#)

This case study clearly demonstrates how TaeguTec's CHASE-12-MILL product line can provide a superior face milling solution for the general engineering industry.

Don't wait any longer if you want to experience the same benefits as this customer or have similar face milling challenges! Contact your nearest TaeguTec representative and ask for a demo of CHASE-12-MILL today!

