



CASE STUDY: HOW MAGNEFAST SOLVED A TOUGH DROP CHUTE

A new SCAT Drop Chute was experiencing material flow issues, wear damage, and challenging on-site maintenance due to limited access and tough BIS400 steel. By installing Magnefast Ceramic Liners in cooperation with Carters Engineering, the site achieved a fast, safe, and efficient solution that eliminated the need for drilling and improved overall chute performance.



LOCATION: New South Wales

APPLIC.: Drop Chute

SOLUTION: Magnefast

ISSUES ON SITE:

A newly installed SCAT Drop Chute presented several operational challenges:

- Restricted access made maintenance and modification difficult.
- Material build-up and caking altered the flow path, reducing efficiency.
- A hole developed in the BIS400 chute wall due to excessive wear.
- Drilling into BIS400 on site proved difficult and time-consuming.

Additionally, the absence of existing CAD drawings made chute redesign and precise liner fitting more challenging.



For more information, please contact Wear Panels team below:



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SOLUTION:

In collaboration with our partner Carters Engineering—who handled the design, fabrication, and installation of the SCAT Drop Chute—we implemented Magnefast Ceramic Liners to overcome the limitations of traditional liner systems. This innovative solution delivered a range of benefits that greatly enhanced both operational efficiency and safety.

Key benefits included:

- **Rapid installation**, which minimized downtime and allowed operations to resume quickly
- **Tool-free application**, eliminating the need for on-site drilling and reducing installation complexity
- **Enhanced safety**, particularly in confined or hard-to-reach areas, thanks to the lightweight and easy-to-handle design

By integrating Magnefast™ system, overall chute performance and wear life were markedly improved. Additionally, the simplified installation and removal process streamlined future maintenance, reducing both time and labour requirements.

Up to 80%
Reduction in
Shutdown Time

Up to 80%
Reduction in
Labour Cost

**Quick,
Safe & Easy**

 magnefast™



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