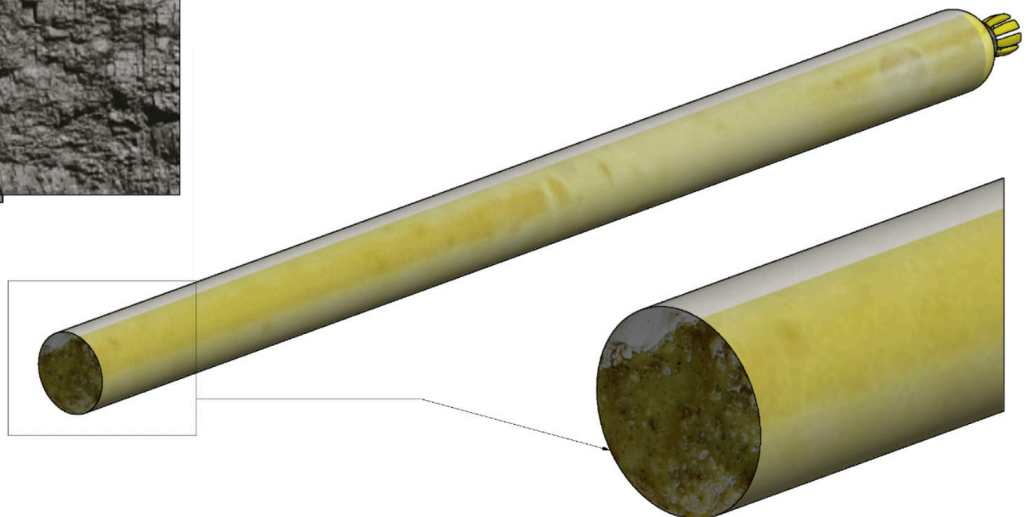
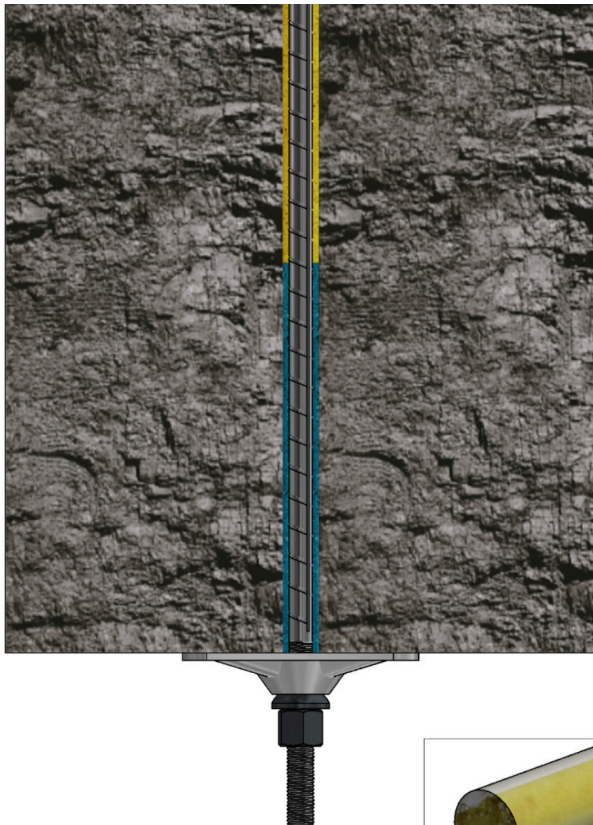




# J-LOK SPIN2STALLZ RESIN CAPSULE



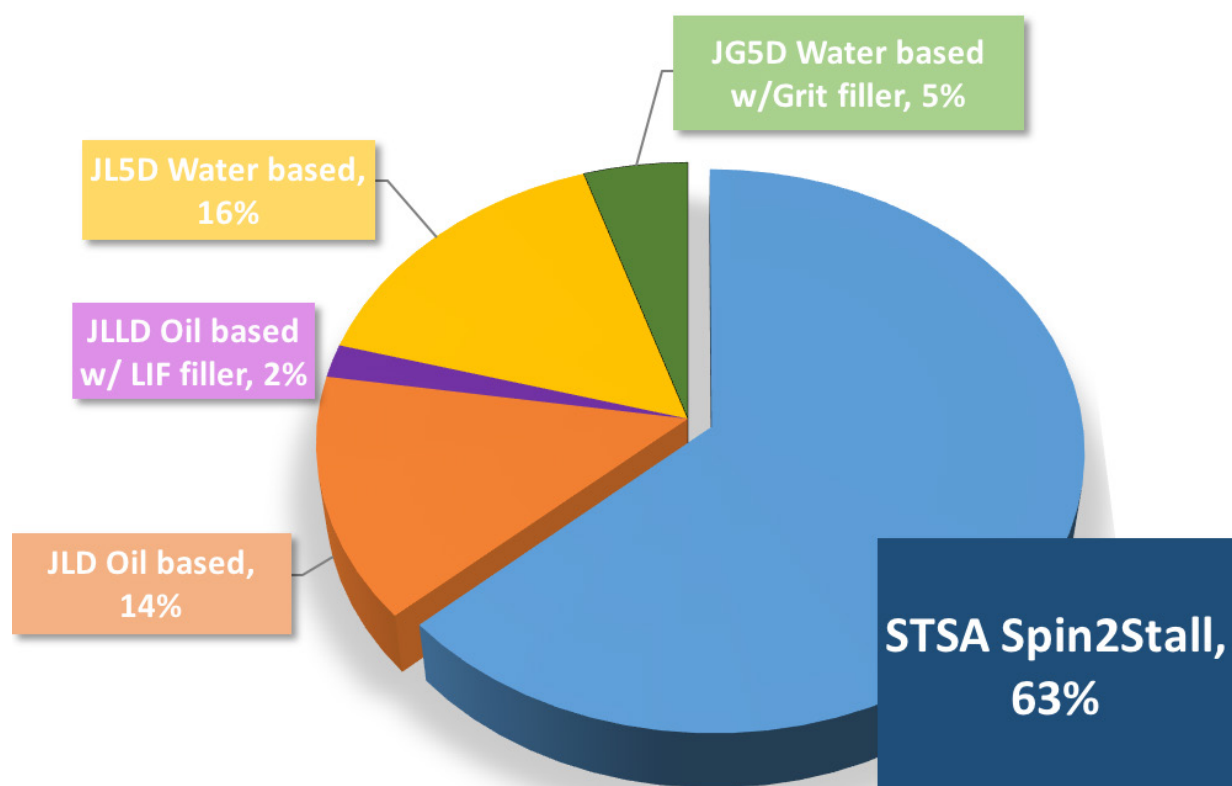
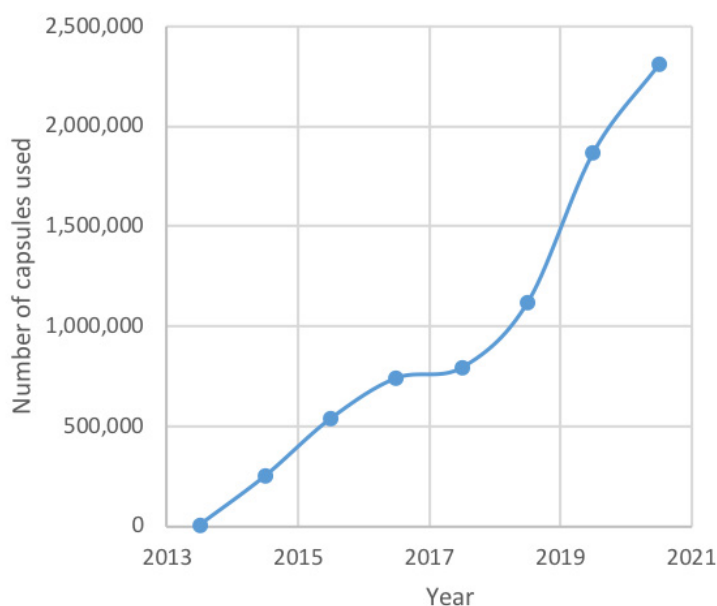
ENLARGED CROSS SECTION

## Industry Adoption

First launched in 2013, JENNMAR's proprietary SPIN2STALL® resin formula has revolutionized rock bolting in the coal mining industry by enabling quicker and easier installation while providing higher average load transfer capacity. SPIN2STALL® installations have consistent mixing and pre-tension on all primary support bolts.

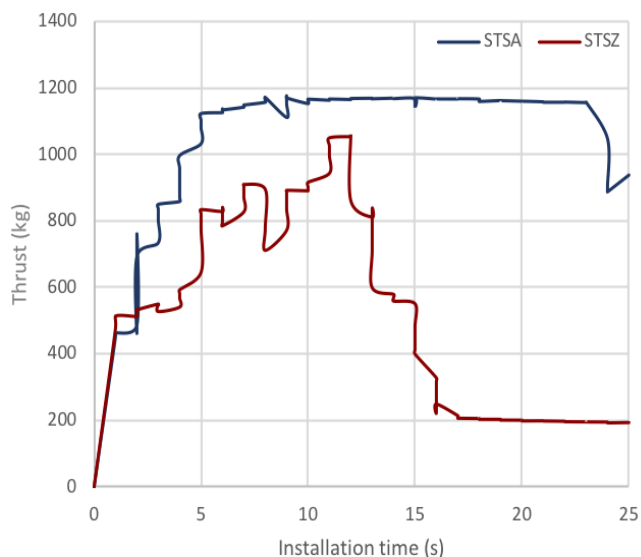
As more and more mines across Australia start to use SPIN2STALL®, it now makes up 63% of all J-LOK resin capsule production. Various combinations of setting speeds and capsule lengths are provided in conjunction with JENNMAR X-grade bolts with reliable pin break-out. Regular training and auditing are available based on individual mine site requirements.

Annual Spin2stall Usage in Australia



Percentage of resin capsules manufactured by J-LOK by catalyst and filler type

# Why SPIN2STALLZ®?

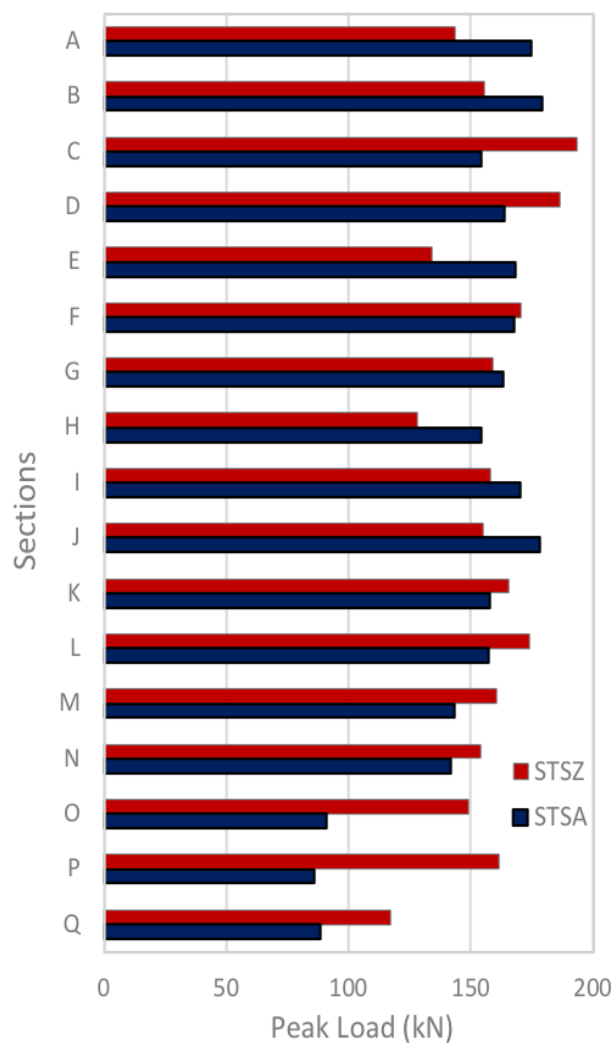
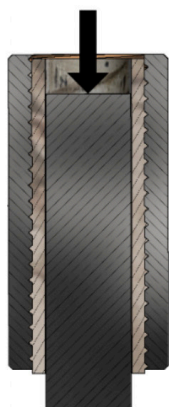


SPIN2STALLZ® was developed specifically for mines with drill-hole closure issues caused by presence of soft materials, such as claystone bands. SPIN2STALLZ® decreases the resistance generated during the spinning process, and the thrust force required to reach the back of the hole can be reduced by 30% as illustrated. The proving stage of this product development has included over 20,000 installations as primary support bolts.

## Load Transfer is maintained

To validate the load transfer of SPIN2STALLZ®, laboratory bond strength tests were conducted on 1.8m long rock bolts installed into 28mm diameter, internally threaded steel pipes with various resin capsules. The encapsulated pipes were then cut into 80mm long sections and push tested as illustrated.

The results showed that SPIN2STALLZ® still provides high performance load transfer on average equivalent to the original SPIN2STALL®.





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**JENNMAR**