

# TRAJECTAFLEX

## Resin Firing System



*Wilco Technologies Managing Director, Michael Williams, developed the Trajectaflex system from 18 year's first-hand experience in underground hard rock development mining.*

Trajectaflex Resin Firing is a system and method designed to shoot resin capsules into a predrilled bolt hole for resin set bolting.

A single pass resin firing system that can be installed onto any Jumbo drill without compromising the drills capabilities in any way, reducing bolting cycle times and providing significant increases in productivity and safety.

The patented Trajectaflex nozzles' robust and flexible design offers Jumbo operators easy and perfect bolt hole alignment - every time! Ensuring high speed and correctly installed resin capsules.



**UNDERGROUND MINE SUPPORT**

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### Advantages of the Trajectaflex

- Safe and efficient method of installing resin bolts. Increasing productivity, reducing bolting cycle times.
- Expands the Jumbo capabilities by turning it into a multi purpose machine
- When using a dual boom development Jumbo, the bolt hole can be drilled with one boom whilst the other boom installs the resin and the bolt. Less boom movements reducing bolting cycle times.
- When using a single boom Jumbo, having the ability to install the bolt and resin in one pass provides significant time savings.
- Loading resin capsules from the work platform results in less operator time on and off the machine, increasing safety and productivity.
- Can be used with mesh, Fibrecrete and in varying ground conditions.
- The need for an offsider is significantly reduced, increasing single operator efficiencies.
- Checking physically for correct bolt hole alignment is eliminated, increasing operator safety.
- Down time is kept to a minimum due to the design and simple maintenance procedures.
- Trajectaflex nozzle maintenance is easily managed by the drill operator or offsider due to the simple design.



Keeping the Jumbo operator where they are safe and productive, resin is loaded into a manifold located at the operator's work platform. With the simple motion of opening a tap to release compressed air, resin capsules are propelled through the Trajectaflex nozzle and lodge into the back of the pre-drilled bolt hole. The Trajectaflex nozzle is mounted on an independent slide and hydraulic assembly. Installed onto the jumbo feed rail, it can be extended and retracted past the end of the feed rail, allowing for fast and easy bolt hole indexing and alignment.

A fully adjustable, mounting assembly allows the resin loading manifold to be correctly positioned for single Jumbo operator use from the work platform or from ground level when a nipper is available. Maintenance is minimal due to the simplicity of its design. Workshop will be pleased that only occasionally some parts will need replacement and basic maintenance of the Trajectaflex nozzle assembly will be carried out by the jumbo operator.