

Automatic Resin Capsules Injection System (ARI)

Technical data

Loading capacity	2 x 90 (capsules Ø20)
	2 x 90 (capsules Ø23)
	2 x 80 (capsules Ø25)
	2 x 60 (capsules Ø28)
	2 x 50 (capsules Ø32)
Capsules length, max.	600 mm
Shooting pressure, max.	5 bar (resin)
Air pressure	8 bar (max.)
	4 bar (on cylinder)
	7 bar (flushing)
Electric system	24 V (10 A)
Weight, empty	180 kg

Sandvik ARI is an automatic system which enables a bolting operator to load and inject resin capsules into borehole before rock bolt installation.

User interface is fully integrated to the main display on i-rock bolters. Operator sees all the time different phases of injection process.

ARI is equipped with 2 separated storages for fast set and low set capsules, ARI realizes what ever capsules sequence is needed by the operator.

If only one type of resin capsules is needed, the system's capacity is doubled. The number and sequence of capsules can be either programmed for all or part of the shift, or realised manually for each bolt.

ARI can be fitted on Sandvik DS412i/iE and DS512i.

ARI is fully tested and optimized for Fasloc® resin capsules.



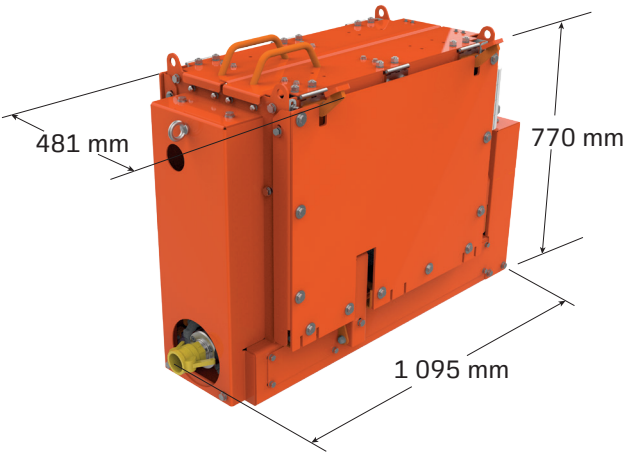


Description

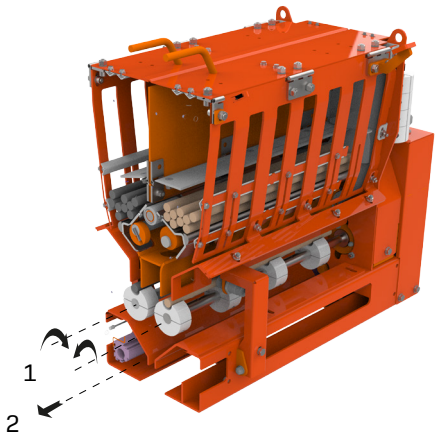
Sandvik ARI consist of :

- A loading tray, divided in two symmetrical parts, where the resin capsules are stored.
- Two electric gear motors for laying capsules one by one to the carrying zone.
- A pneumatic cylinder carrying the capsules to the sending zone.
- A remote control box, located at the control station, for the cycle programming.

Main dimensions



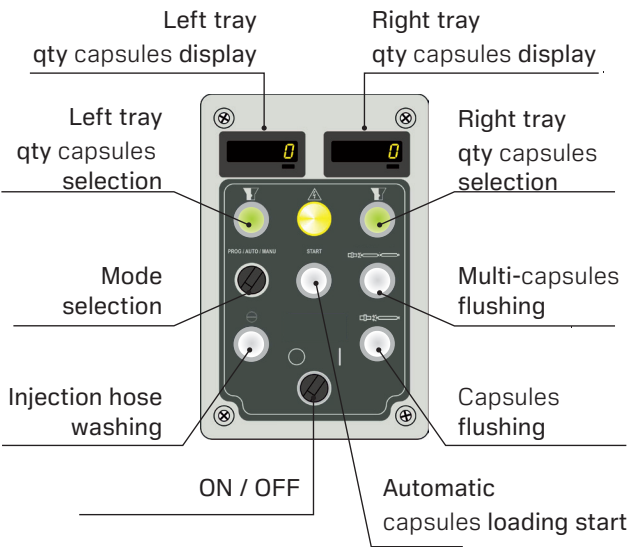
How does it work?



Depending on the type of capsules needed (fast set or low set) :

1. The loading wheels pick one capsule from the right or left tray,
2. The capsules is then pushed into the injection hose.

Controls box (for machine without GUI)



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