

Pumpable Resin System

Bolting system

Key features

Compatible	Sandvik DS412i/iE, DS512i
Bolt type	Self Drilling Bolt (SDB) Hollow bar bolt
Bolt lengths	2.4 m (8'), 2.7 m (9') and 3.0 m (10')
Bolt diameters	R25 - R28 - R32
Resin type	Two components urea - silicate resin
Resin compatibility	All major resin supplier
Rod retainer	2 x 40/25 mm cylinders (220 bar) 15 kN clamping force
Bolting cycle	One bolt automatics
Pump type	Gear pump Pump volume 10l/min
Control system	Pump flow controlled 50:50 ratio
Flow sensors	2 x flow sensor
Mixer flushing	Cleaner agent from resin supplier
Tank capacity	2 x 210 liters (A & B components) 1 x 49 liters (flushing)
Filling pump	Electric pump
Tank dimensions	H1 955 x W1 425 x D810 mm
Transport weight	460 kg

Sandvik iSeries bolters can be configured with a Pumpable Resin System (PRS). The use of a Pumpable Resin System improves safety and enables faster cycle times in the bolting rock support process.

The resin pumping and grouting process is fully controlled and monitored through the operator display. The resin flow is supervised with two resin flow meters. This resin ratio is 50/50, it's displayed to the operator screen. The speed of the grout pipe can be controlled based on hole diameter.

Summary of the grouting process:

A. Self-Drilling Bolt (SDB)

- Hole is drilled with self-drilling bolt
- Hole is grouted (injected with resin) through the bolt
- Resin mixing head is flushed by cleaner agent
- Bolt is torqued with tensioning device

B. Hollow bar bolt (standard rod + drilling bit)

- Hole is drilled with standard rod with bit
- Bolt is installed in the hole
- Hole is grouted (injected with resin) through the bolt
- Resin mixing head is flushed by cleaner agent
- Bolt is inserted and torqued with tensioning device

Resin curing time can be tailored matching individual needs. The curing times for Mineral Bolt urea-silicate resin range from 20 sec. up to 10 min.

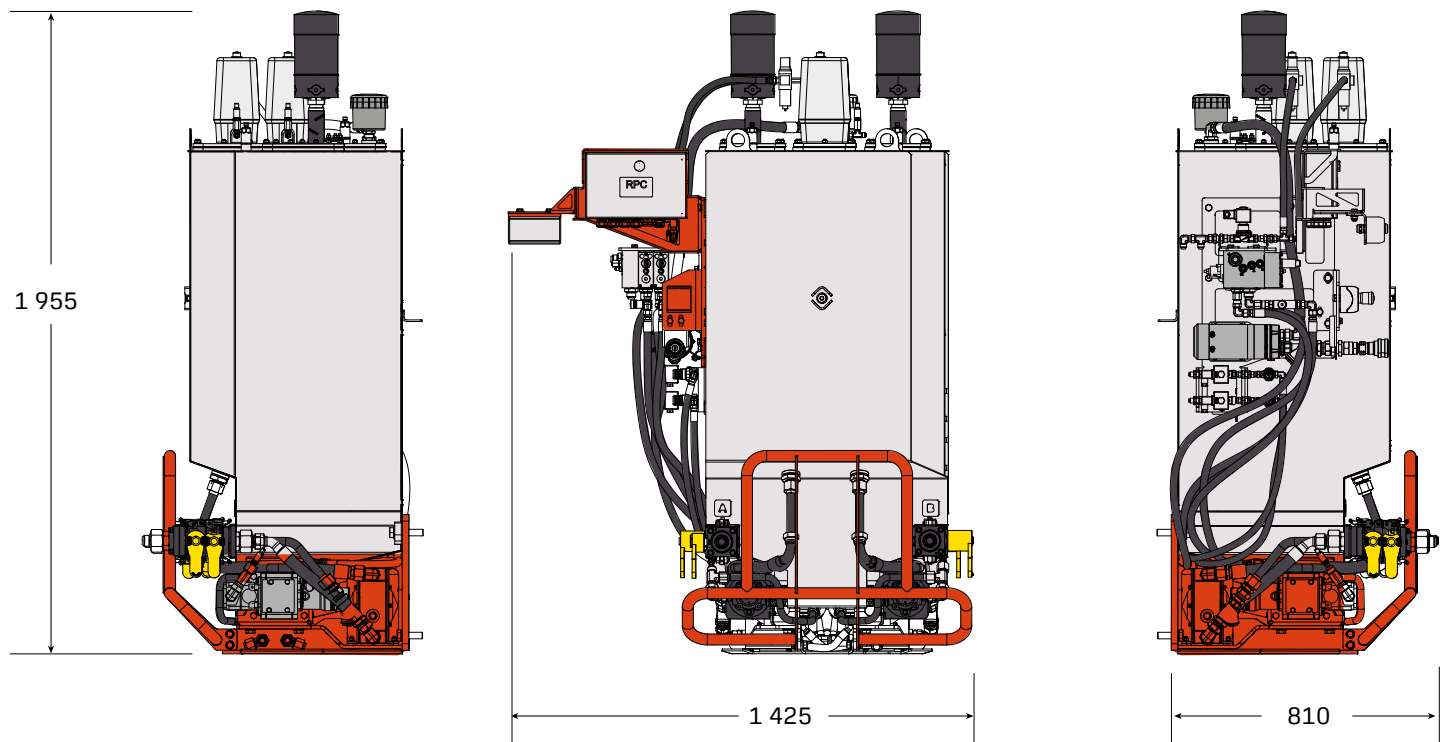
Machine resin tanks are filled by a vacuum pump on the machine. This ensures safety during filling, since hoses and connections are unpressurized and in the case of leak damage to the environment is limited.

The complete system is fully sealed, ensuring no exposure of chemicals to the operator.



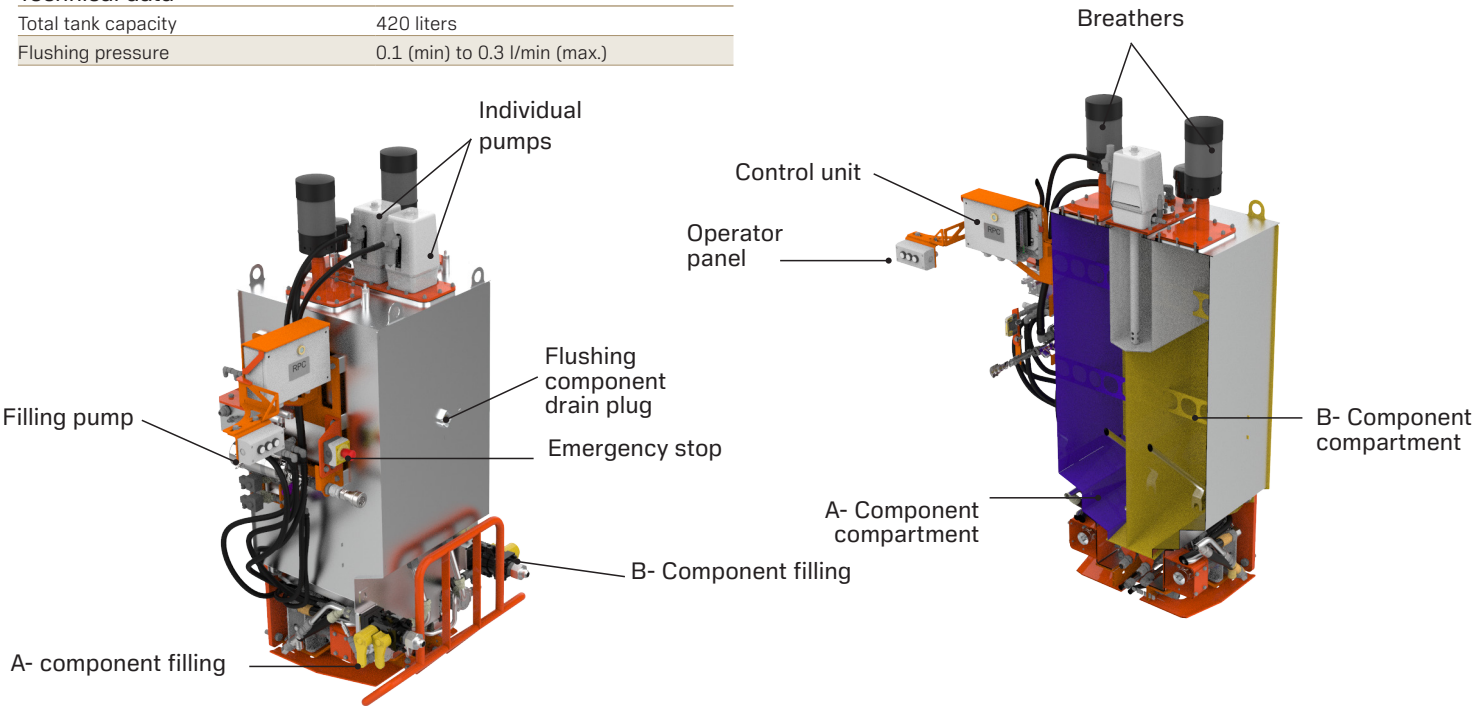
Technical drawing

All dimensions in mm



Technical data

Total tank capacity	420 liters
Flushing pressure	0.1 (min) to 0.3 l/min (max.)



Technical drawing*All dimensions in mm*

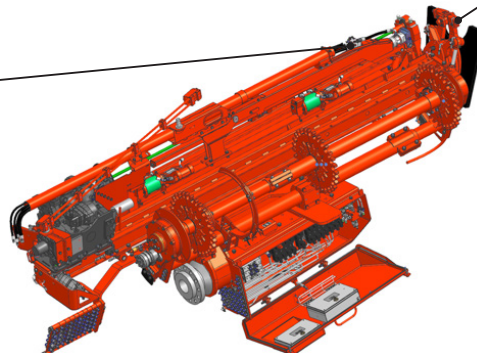
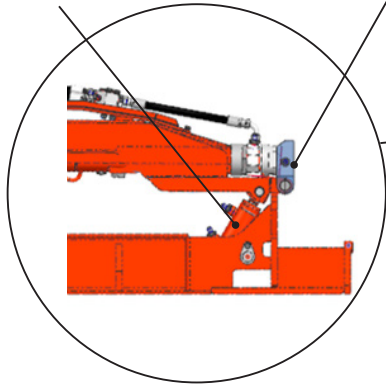
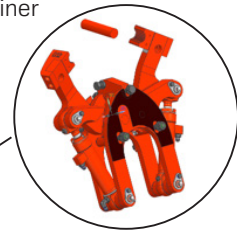
New form

Lift cylinder, with linear sensor

Nozzle cover

Nozzle cover and washer
Spring operated

Rod retainer



Injection feed, and mixing A and B components

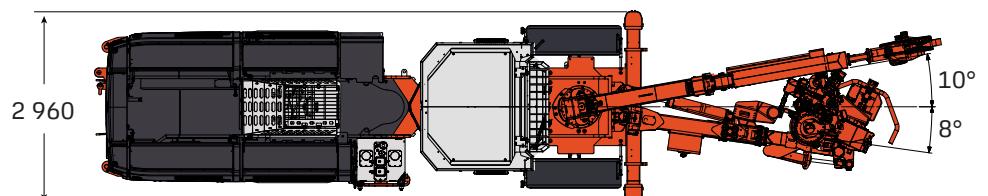
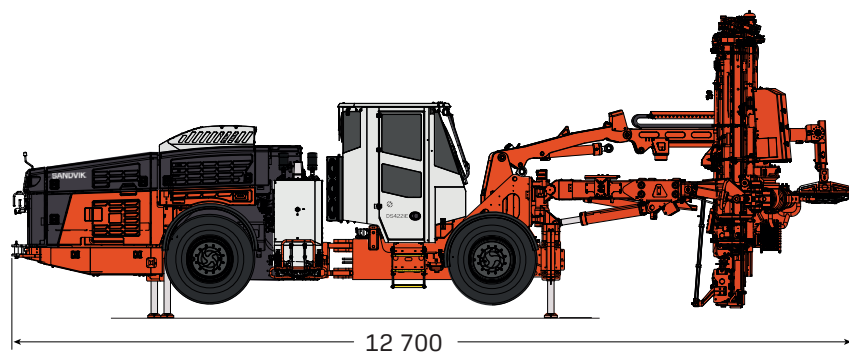
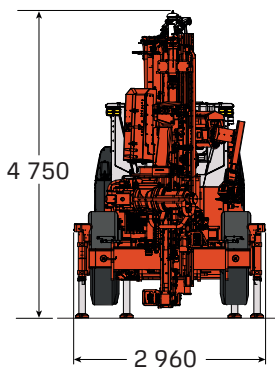
A and B
components
mixed in this hoseDrilling with bolting beam
with SDB boltDrilling with drilling
beam for:

- Hollow bar bolt
- Splitset
- Swellex
- Rebar

Retainer:
Independent from
indexingCassette for SDB,
hollow bar bolt
and other bolt
types

B-component Flushing valve

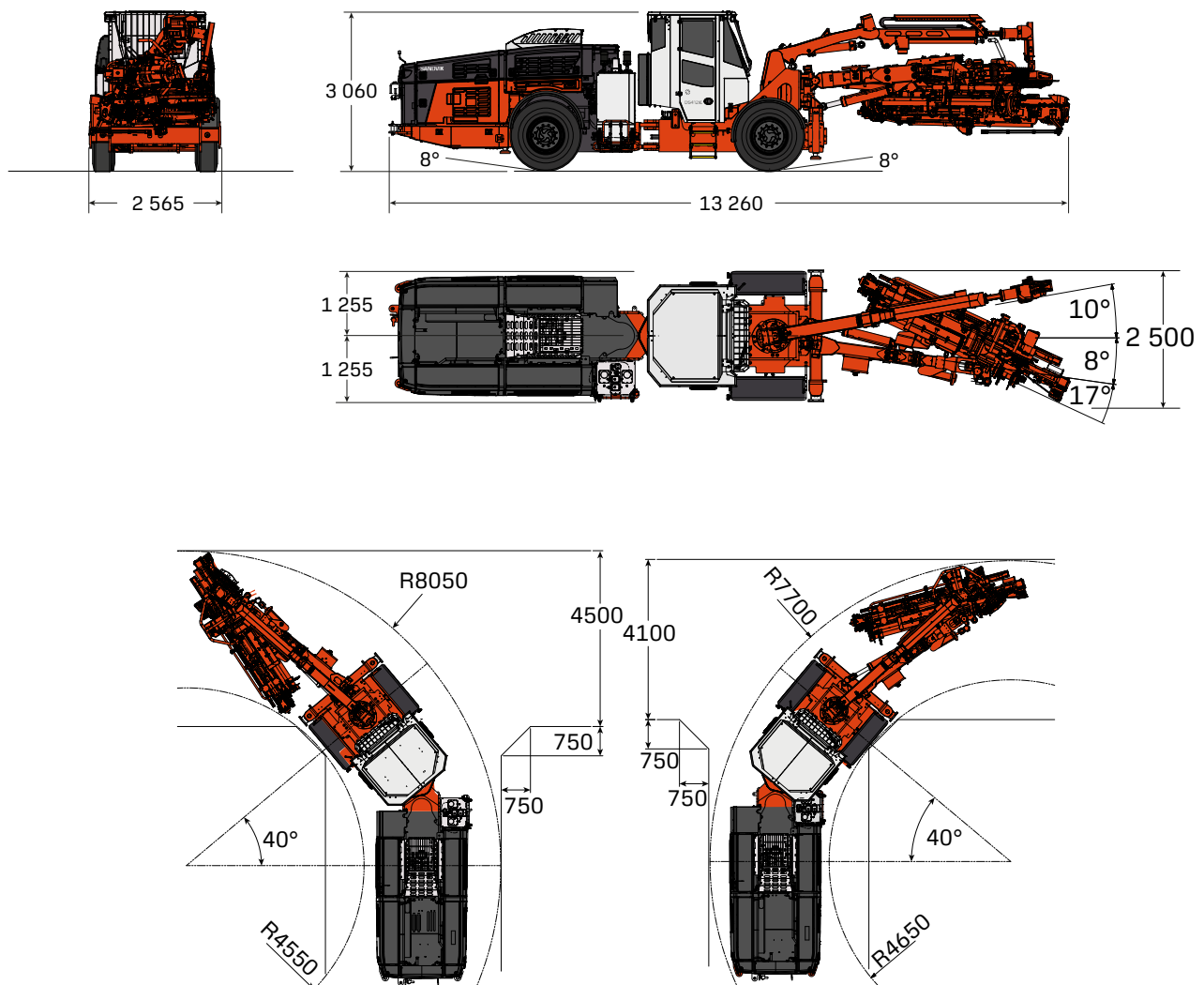
A-component

Only these
components need
to be flushed



Technical drawing

All dimensions in mm



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