

RD921S

Hydraulic rock drill

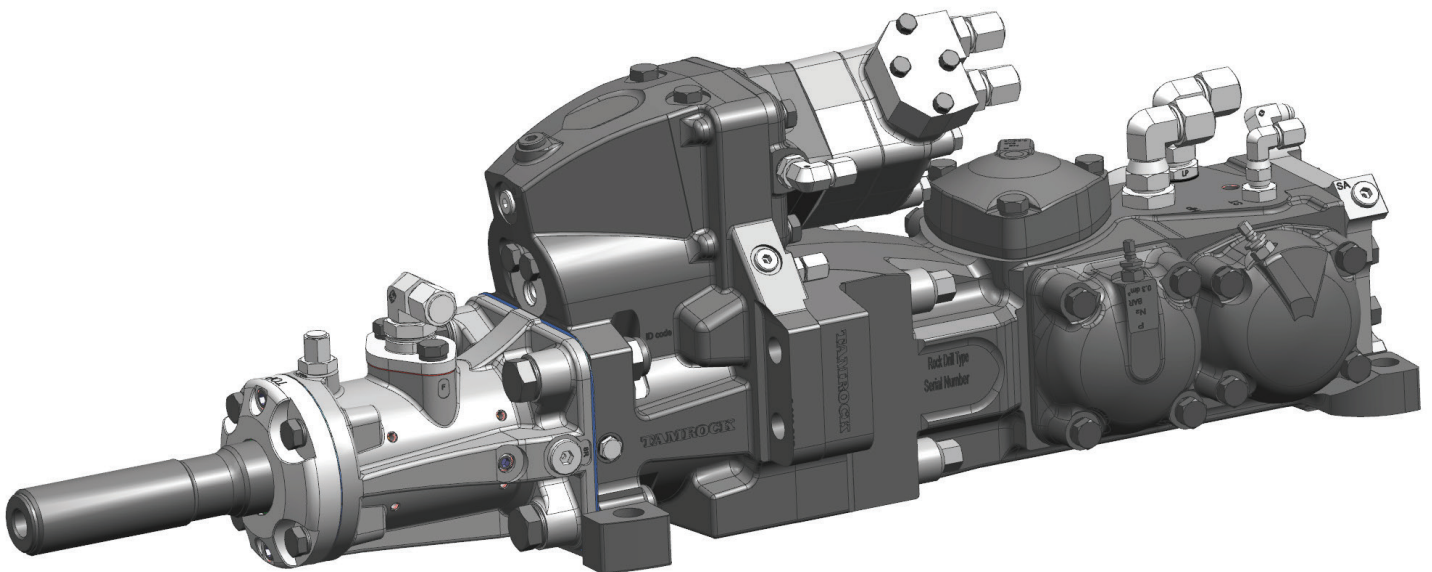
Key features

Hole diameter range	64 - 89 mm
Kinetic power	21 kW
Percussion rate	71 Hz
Percussion pressure	Up to 200 bar
Rotation pressure	Up to 200 bar
Rotation motor types	OMT 250 / 315
Weight	340 kg

Sandvik RD921S is a hydraulic top hammer rock drill designed for tophammer rigs. It is capable of drilling Ø64 - 89 mm holes up to 29 meters in depth. Optimal hole range is from 76 to 89 mm, using T38 and T45 MF - rods.

The RD921S is a heavy-duty hydraulic rock drill designed for medium diameter longhole drilling. The construction of the rock drill is based on three body modules tied together with short side bolts; this ensures minimum number of joint faces and large contact surfaces. The percussion module is simple and reliable in design and consists of only two moving parts – the piston and the distributor sleeve around the piston – all guided by single pilot cylinder, ensuring optimal alignment for parts. The RD921S is fitted with a drill stabilizer, which is designed to keep the shank adapter in optimal position in relation to the piston; this ensures good rock/bit contact and energy transfer, high penetration rate and rock tool service life.

There are two rotation motor variants to meet the rotation torque and RPM requirements in the RD921S application range. Power extractor (option) can be used for opening rock tool joints manually or automatically when using one-hole automation. The design of the RD921S is covered by several patents.



Shank lubrication

	Circulating Shank Lubrication (CSL) **	Oil Mist Lubrication (SLU)
Air flow	0.5 m ³ /min	0.5 m ³ /min
Air pressure	4 bar	4 bar
Oil consumption	~1 lpm*	~600 g/h*
Max. oil pressure	20 bar	
Oil type example	Shell Omala 32/100	Shell air tool oil 32/100

* Depends strongly on drilling parameters
 ** only for surface drill

Rotation motors

Motor	OMT 250	OMT 315
Pressure max. (dp)	200 bar	200 bar
Flow (at max speed)	125 l/min	125 l/min
Torque at bit	1400 Nm	1750 Nm
Bit rotation speed max.	250 rpm	190 rpm

Oil recommendation

Oil operating temperature	Between 40°C and 60°C
Oil recommendation	See Sandvik drill lubricant recommendation

Accumulators

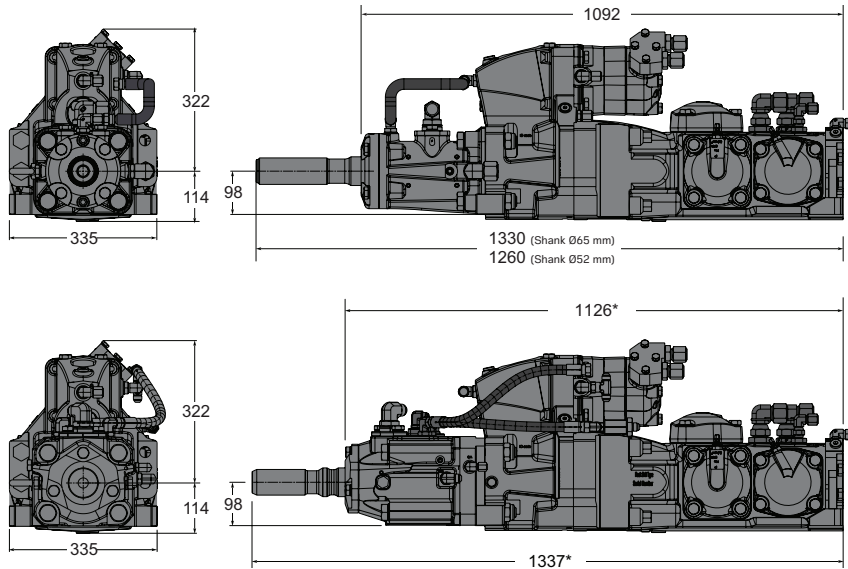
Accumulator gas	Nitrogen N2
High pressure (HP)	50 bar (2 pcs)
Low pressure (LP)	4 bar (2 pcs)
Stabilizer	40 bar
Filling valve	Vg8 DIN7756

Shank types

With rods T38, T45 bottom contact bearing Ø52 mm

Option

Power extractor	See separate specification
Special tools for RD921S	Field kit or complete set



* (With power extractor Ø65 mm length. With power extractor Ø52 mm is the same as with flushing head models)

All dimensions in mm

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