

Ranger™ DX series More efficiency with less fuel

Surface top hammer drill rigs



Extreme performance

At Sandvik, we have worked with drilling solutions for more than 50 years and learnt a thing or two along the way. Our Ranger™ DX series surface top hammer drill rigs combine the legacy of reliability, productivity and safety of previous Sandvik drill rigs with the latest technology, resulting in an unrivalled combination of modern outlook, improved drilling efficiency with lower fuel consumption, and enhanced safety even in the toughest of terrain.

For tough conditions

The Ranger™ DX series drill rigs are designed to keep their operational reliability even in tough conditions. Featuring a revolving superstructure for excellent drilling coverage, an innovative counterweight solution for ultimate stability, a Rock Pilot+drilling control system, as well as other performance-enhancing solutions, the Ranger™ DX series will get the job

done in even the most challenging conditions. Top quality is guaranteed by the best warranty coverage in the industry and all components have been carefully chosen from well-known high quality suppliers. The rigs also go through a thorough testing process before delivery.

On top of all this, the rig is powered by a low-consuming, low-emission Stage V or Tier 3 engine and equipped with a Sandvik eco-package, resulting in 27%* lower fuel consumption compared to its already fuel-efficient predecessors.

The Ranger™ DX series rigs are best suited to drill hole sizes between 51–127 mm (2"–5") in applications such as road cutting, pipeline drilling and foundation drilling as well as production drilling in medium-sized quarries and open pit mines.

* Measured in defined applications. Consumption depends on work time distribution and rock conditions.





Top-rate rock drill, 4 different

The optional high frequency HF820T rock drill offers 10 percent higher penetration rates and better hole quality compared to its predecessor. (Standard: upgraded HL820T rock drill in Ranger™ DX800).



Safety

Safety is a basic value for Sandvik and an inbuilt property of all our surface drill rigs. On top of the proactive work to improve operational safety we turn requirements into technical solutions – as a result the Ranger™ DX series applies the drill rig safety standard EN16228.



Operator comfort and safety

Excellent visibility and ergonomics. Sound-proof with high quality interior materials. Roll-over (ROPS) and falling object protection (FOPS).



Large service doors

Enable easy and safe maintenance.



Revolving superstructure

Large drilling coverage from standard 17.6m² (189ft²) to an optional 26.4m² (248ft²).

Examples of options:



Ground support



First service kit



Full radio control



Sandvik central greasing unit



Reversing camera



Radio and CD-MP3 player



TIM3D navigation system



Perfect hole quality and improved tools lifetime

Rock Pilot+ drilling control system guarantees long tool lifetime and high quality holes.

Rock pilot+ drilling control system

Automatically adjusting to changing rock formations, the Rock Pilot+ sends an optimal amount of power to the rock. It is designed to ensure smooth rotation, solid rock contact and fast penetration in different rock conditions.

More tramping force

Tramping force has been increased by over 10%, resulting in better usability in more challenging conditions.

Excellent stability

The rigs stability is guaranteed by its innovative structure, keeping counterweight at all times on the opposite side of the boom.

Low-consuming, high power engine

Equipped with CAT C7.1 commonrail Stage V or Tier 3 engine. The Stage V engine utilizes SCR technology with a common-railtype fuel injection system.

Technical specification in brief

Technical data	Ranger™ DX600	Ranger™ DX700	Ranger™ DX800
Recommended hole diameter	64–102 mm (2½”–4”)	76–115 mm (3”–4½”)	76–127 mm (3”–5”)
Drill rod diameters	38 mm, 45 mm, 51 mm (1½”, 1¾”, 2”)	45 mm, 51 mm (1¾”, 2”)	45 mm, 51 mm (1¾”, 2”)
Hydraulic rock drill and percussion output power	HL650, 17.5 kW (23.5 hp)	HL710, 19.5 kW (26.5 hp)	HL820T, 21 kW (28 hp) HF820T (opt.), 23 kW (30.5 hp)
Drilling coverage	17.6 m ² (189 ft ²) opt. 26.4 m ² (284 ft ²)	17.6 m ² (189 ft ²) opt. 26.4 m ² (284 ft ²)	17.6 m ² (189 ft ²) opt. 26.4 m ² (284 ft ²)
Engine type	Caterpillar C7.1 Tier 3, Tier 4F / Stage V	Caterpillar C7.1 Tier 3, Tier 4F / Stage V	Caterpillar C7.1 Tier 3, Tier 4F / Stage V
Engine output power	168 kW (228 hp) / 1 800 rpm	168 kW (228 hp) / 1 800 rpm	168 kW (228 hp) / 1 800 rpm
Operator cabin	Ergo with Air Conditioning	Ergo with Air Conditioning	Ergo with Air Conditioning
Certificate	ROPS and FOPS	ROPS and FOPS	ROPS and FOPS
Control system type	Hydraulic pilot control and relay logic	Hydraulic pilot control and relay logic	Hydraulic pilot control and relay logic
Flushing air capacity	6.2 m ³ /min (219 cfm), up to 10 bar (145 psi)	8.1 m ³ /min (286 cfm), up to 10 bar (145 psi)	8.1 m ³ /min (286 cfm), up to 10 bar (145 psi)
Total weight	15 200 kg (33 510 lbs) Tier 3 15 600 kg (34 392 lbs) Tier 4F / Stage V	15 200 kg (33 510 lbs) Tier 3 15 600 kg (34 392 lbs) Tier 4F / Stage V	15 200 kg (33 510 lbs) Tier 3 15 600 kg (34 392 lbs) Tier 4F / Stage V



Want to know more?



or contact your local Sandvik representative.