

RANGER DX SERIES THE RANGER IS HERE!



Ver 1.2



THIS IS RANGER DX

RANGER DX SERIES PRODUCT MODELS

	Ranger DX500	Ranger DX600	Ranger DX700	Ranger DX800
Recommended hole-dia	51– mm, 2”–3½”	64–102 mm, 2½”–4”	64–115 mm, 2½”–4½”	64– 127 mm, 2½”–5”
Drill rod / tube diameters	32, 38, 45 mm 1¼, 1½”, 1¾”	38, 45, 51 mm 1½”, 1¾”, 2”	38, 45, 51 mm 1½”, 1¾”, 2”	38, 45, 51 mm 1½”, 1¾”, 2”
Hydraulic rock drill	HL510	HL 650	HL 710	HL820T / HF820T (opt.)
Percussion output power	15,5kW 20,8 hp	17,5 kW 23,5 hp	19,5 kW 26,5 hp	21kW / 23kW 28 hp / 30,5 hp
Engine type	Caterpillar C7.1 Tier 3	Caterpillar C7.1 Tier 4 Final Caterpillar C7.1 Tier 3	Caterpillar C7.1 Tier 4 Final Caterpillar C7.1 Tier 3	Caterpillar C7.1 Tier 4 Final Caterpillar C7.1 Tier 3
Engine output power	168 kW / 1800 rpm 228 hp / 1800 rpm	168 kW / 1800 rpm 228 hp / 1800 rpm	168 kW / 1800 rpm 228 hp / 1800 rpm	168 kW / 1800 rpm 228 hp / 1800 rpm
Flushing air capacity	6,2 m³ / min 219 cfm twin-pressure compressor	6,2 m³ / min 219 cfm twin-pressure compressor	8,1 m³ / min 286 cfm twin-pressure compressor	8,1 m³ / min 286 cfm twin-pressure compressor
Operator cabin	Ergo with Air Conditioning	Ergo with Air Conditioning	Ergo with Air Conditioning	Ergo with Air Conditioning
Certificate	ROPS and FOPS	ROPS and FOPS	ROPS and FOPS	ROPS and FOPS

RANGER DX SERIES APPLICATIONS



- CIVIL CONSTRUCTION
 - ROAD
 - RAIL ROAD
 - TUNNELS
 - CANALS
- PRODUCTION DRILLING
- SITE PREPARATION
 - BUILDINGS
 - QUARRIES
 - OPEN PIT MINES
- WALL CONTROL
- PIPELINE WORK

RANGER DX SERIES CUSTOMER BENEFITS



**EXTREME
PERFORMANCE**



**PERFECT HOLE
QUALITY**



**MORE EFFICIENCY
WITH LESS FUEL**



**EASE OF
OPERATION**

EXTREME PERFORMANCE RANGER DX SERIES

CUSTOMER BENEFITS

- RELIABILITY
- HIGH PRODUCTIVITY
- EXCELLENT MOBILITY

WHAT
DO
YOU
GET ?



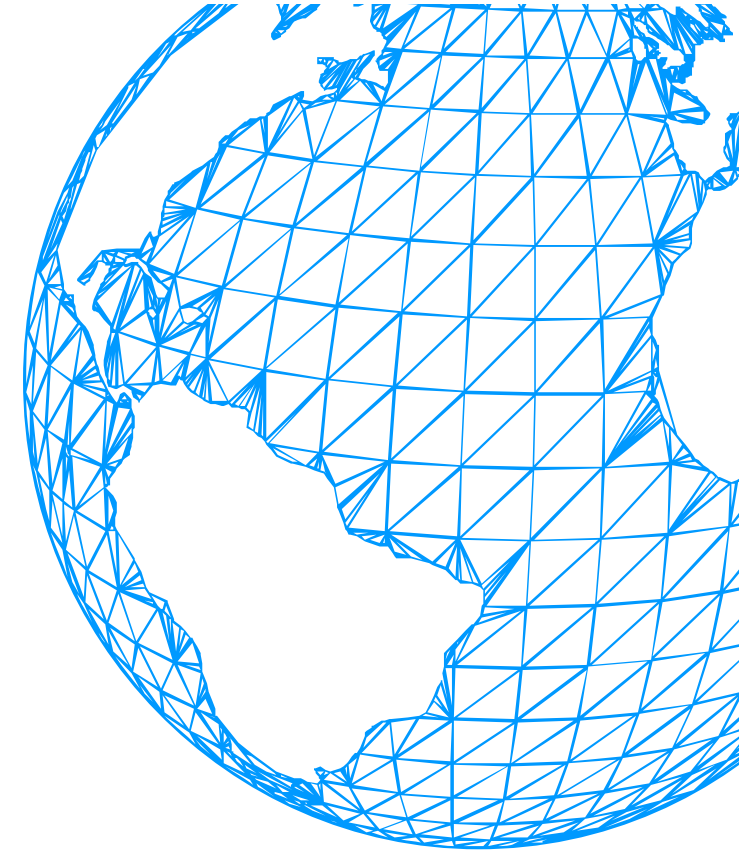
EXTREME PERFORMANCE

EXTREME PERFORMANCE RANGER DX SERIES

- Ranger DX series rigs are designed to perform in tough conditions all over the world.

*”MORE THAN 3500 DELIVERED
RANGERS WOLDWIDE PROVE THE
SUCCESS AND RELIABILITY ”*

- Only high quality and world class components have been selected to guarantee long equipment lifetime.



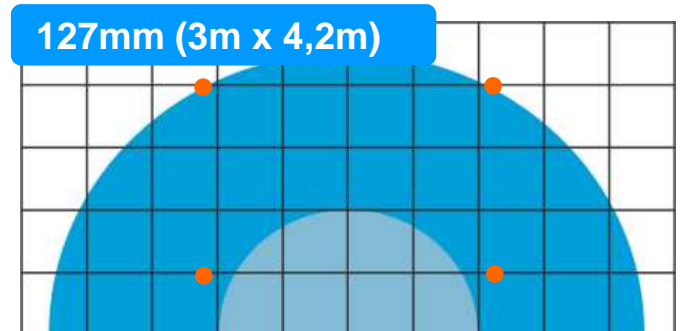
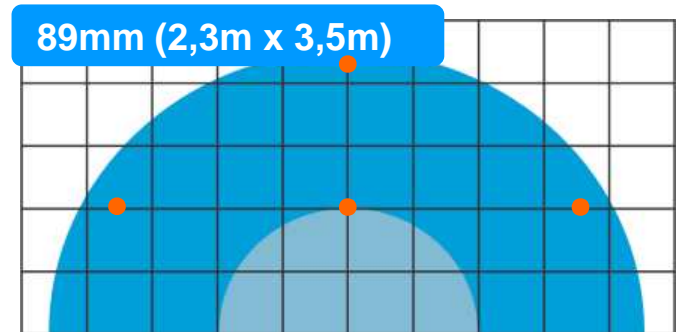
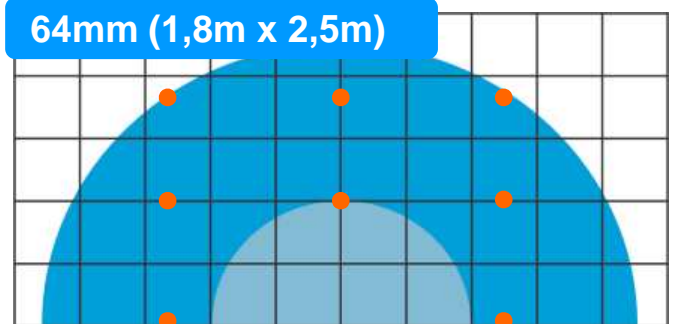
*”THE MOST
COMPREHENSIVE
WARRANTY COVERAGE”*



EXTREME PERFORMANCE

RANGER DX SERIES

- Largest drilling coverage on market with revolving superstructure and articulated boom structure.
- Unique 120°/180° feature adds productivity and safety in all applications.
 - Decreases non-drilling time and improves productivity +20 - 35 percent compared to same class conventional type rig.
 - Superstructure guarantees excellent stability in all direction due to counter balance front and back.



SANDVIK

EXTREME PERFORMANCE RANGER DX SERIES

- Articulated boom and turnable superstructure
 - Operator always faces towards the drilling spot
 - The best reach and largest drilling coverage
 - 30 - 80% more holes per set-up compared to conventional type rigs.



EXTREME PERFORMANCE

RANGER DX SERIES

- High drilling capacity and reliability is achieved through rock drill's functional modular design and robust construction.
- Five different rock drills models gives widest hole diameter coverage on market
- New HF820T rock drill gives at least 10% higher penetration rate but lower tool consumption.
 - Perfect match for T51 rock tools
 - Optimized penetration per blow and high frequency ensures even better hole quality.



*“ALL SANDVIK ROCK DRILLS
HAVE BEEN DESIGNED AND
MANUFACTURED IN
FINLAND, EUROPE”*

*“MAXIMIZE PRODUCTIVITY
WITH NEW HIGH
FREQUENCY ROCK DRILL,
HF820T – 23kW, 52Hz”*

PERFECT HOLE QUALITY RANGER DX SERIES

WHAT
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CUSTOMER BENEFITS

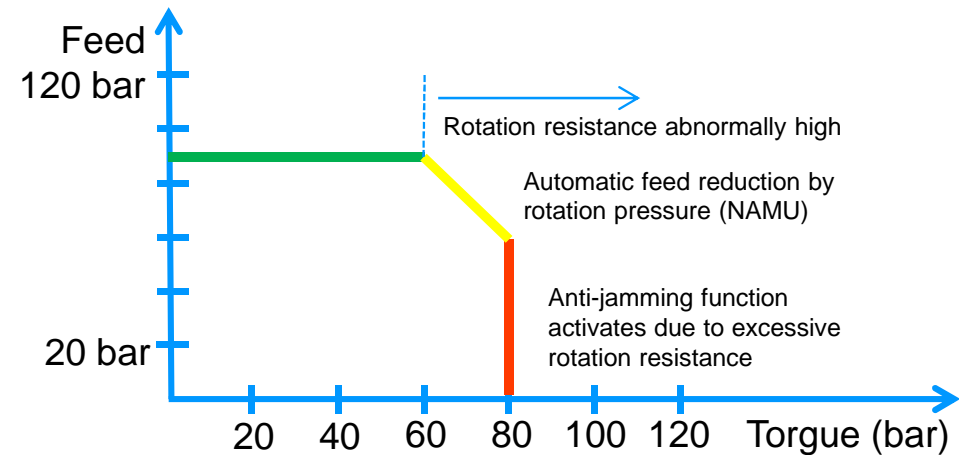
- BLASTING SAFETY
- OPTIMAL DRILLING PERFORMANCE
- LESS DRILLING TOOLS COSTS



PERFECT HOLE QUALITY

PERFECT HOLE QUALITY RANGER DX SERIES

- Rock pilot+ is the most advanced hydraulically controlled drilling system on the market.
- The best bit penetration / tool lifetime combination is achieved with Rock Pilot+ control system. Optimum drilling power for each rock condition ensures:
 - Straighter holes – better blasting
 - Improved drilling tools lifetime
 - Excellent hole collaring



PERFECT HOLE QUALITY RANGER DX SERIES

- Optimized total operation costs due to drilling accuracy and optimum drilling power.
- Easiest, fastest and most accurate ($\pm 10\text{cm}$) drilling with help of TIM3D navigation (optional) supported by Driller's office software
 - Improved blasting safety

"UP TO 30% HIGHER LIFETIME FOR ROCK TOOLS WITH COMBINATION OF RANGER DX AND SANDVIK +RANGE ROCK TOOLS"

"STRAIGHT THROUGH FRACTURES, JOINTS, CLAY AND DIFFERENT ROCK FORMATIONS WITH ROCK PILOT+"

MORE EFFICIENCY WITH LESS FUEL

RANGER DX SERIES

CUSTOMER BENEFITS

- HIGH UTILIZATION RATIO
- REDUCED FUEL CONSUMPTION

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MORE EFFICIENCY WITH LESS FUEL

MORE EFFICIENCY WITH LESS FUEL

RANGER DX SERIES

- Ranger DX series rigs have equipped with latest technology features helping to operate the rig most fuel efficient way.
- New technology engines with commonrail-type fuel injection system
 - Semi-automatic RPM-control for reducing engine RPM without losing drilling performance

*"UNRIVALLED FUEL SAVING
UP TO 27% LOWER
CONSUMPTION PER
DRILLED METER
COMPARED TO ITS
ALREADY FUEL-EFFICIENT
PREDECESSOR"*

MORE EFFICIENCY WITH LESS FUEL

RANGER DX SERIES

- New compressor management and flow optimized flushing circuit minimizes pressure losses and decreases compressor pressure whenever flushing is not needed
- Ambient temperature controlled cooling system to reduce power needed for cooling

"EXTENDED LIFE OF THE COMPRESSOR AND ENGINE"

"ANNUAL FUEL SAVING IN NORMAL CONSTRUCTION APPLICATIONS CAN BE MORE THAN 13.000 LITERS"*

*calculated with 2000 engine hours per year and 47% drilling time

EASE OF OPERATION RANGER DX SERIES

CUSTOMER BENEFITS

- LOCK-TO-TARGET WITH EASY OPERATE RIG
- ERGONOMIC AND SAFE CABIN WITH GREAT VISIBILITY
- MOTIVATED OPERATOR

WHAT
DO
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GET ?



EASE OF OPERATION

EASE OF OPERATION

RANGER DX SERIES

- Excellent visibility, low noise level and ergonomic working environment gives boost for productivity
- Lock-to-target with easy to use interface and automatically changing drilling parameters
- Full scale aligning system assortment for easy aligning
- Two optional remote controls
 - Full radio remote control for drilling, boom movements, rod adding, tramming, oscillation and winching.
 - Radio remote for tramming, oscillation and winching.



RADIO REMOTE CONTROL



THE RANGER IS HERE!

**EASE OF
OPERATION**

**PERFECT HOLE
QUALITY**

**EXTREME
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