



DS2711 NARROW VEIN BOLTER

TECHNICAL SPECIFICATION

Sandvik DS2711 is a one-man-operated electro-hydraulic rockbolter for rock reinforcement in the underground mines with small and medium cross-sections. The operator works from supported ground while protected under a FOPS-certified canopy structure. Mechanization of the bolting process ensures efficient, constant and durable rockbolt integrity. Built from proven and reliable components, Sandvik DS2711 is designed for high availability. At its core is the well-known Sandvik hydrastar 200 rockdrill, which enables fast performance. Versatility is also one of the rockbolter's key characteristics. Sandvik DS2711 can install all range of mechanized rock bolts from Spliset, mechanical bolt, water inflated bolt and grouted rebar bolts in length from 1.5 to 2.4 meters (5 to 8 feet).

Sandvik DS2711 is mounted on a 4-wheel drive frame-steered and diesel powered carrier, which features a FOPS-approved safety canopy, and layout designed for good visibility and stability in tramming in small mining drifts and tunnels.

The operating and maintenance interface are designed for easy access, safe operation and all service points are accessible from ground level.

KEY FEATURES

| | |
|----------------------------|-------------------------------|
| Hydraulic rock drill | 1 x H200 (10 kW) |
| Bolting head | 1 x TUC (5' to 8') |
| Bolting boom | 1 x B26B |
| Bolt length | 5'...8' (1 525 ... 2 440 mm) |
| T-section width in turning | 3 030 mm (TUC5) |
| Tramming width | 1 600 mm |
| Tramming height | 2 070 mm / 2 750 mm |
| Tramming length | 9 000 mm (TUC5) |
| Operating weight | 11 500 kg depending on option |



1. SANDVIK DS2711 - ROCK SUPPORT BOLTER

HYDRAULIC ROCK DRILL

| | |
|---------------------------------|-----------------------|
| Type of rock drill | H200 (TS2-234) |
| Percussion power | 10 kW |
| Percussion pressure | Max. 200 bar |
| Percussion rate | 40 - 65 Hz |
| Rotation speed | Max. 300 rpm (OMS125) |
| Rotation torque | Max. 420 Nm (OMT125) |
| Hole size | 33 - 41 mm |
| Recommended rod | R32 - H25 - R25 |
| Shank adapter | R32 (female) |
| Weight | 95 kg |
| Filling device for accumulators | Specification TS2-430 |

BOLTING HEAD

| | | TUC5 | TUC6 | TUC7 | TUC8 |
|-------------------------------------|----|--------------------|-------|-------|-------|
| Bolt length | mm | 1 525 | 1 830 | 2 135 | 2 440 |
| Drill steel length | mm | 1 870 | 2 175 | 2 475 | 2 795 |
| Hole depth | mm | 1 680 | 1 980 | 2 290 | 2 550 |
| Recommended operating height (Min.) | mm | 3 175 | 3 555 | 3 850 | 4 365 |
| Bolt carousel capacity | | 10 to 15 rockbolts | | | |
| Total weight | kg | 1 110 | 1 150 | 1 180 | 1 230 |

BOOM

| | |
|----------------|----------------|
| Type of boom | B26B (TS2-206) |
| Boom extension | 1 200 mm |
| Boom weight | 1 350 kg |
| Bolting head | 360° |

HYDRAULIC SYSTEM

| | |
|--|--|
| Power pack | HPP355 (1 x 55 kW) |
| Operating principle | Direct hydraulic control |
| Percussion, rotation, feed and boom pump (triple pump) | 45 cc + 45 cc + 14 cc (50 Hz) 35 cc + 35 cc + 11 cc (60 Hz) |
| Filtration (pressure / return) | 10 µ / 10 µ |
| Oil tank volume | 200 liters |
| Filling pump for hydraulic oil | Electric |
| Cooler for hydraulic oil | OW30 oil-to-water (1 x 30 kW) |
| Low oil level indication | Level indicator and automatic switch-off |
| Set of tools | Specification TS2-429 |

DRILLING CONTROL SYSTEM

| | |
|------------------------|---|
| Type of control system | IBC-B, hydraulic |
| Power control | Adjustable full power Adjustable collaring power |
| Anti-jamming control | Adjustable anti-jamming pressure |
| Rotation control | Adjustable rotation speed |
| MySandvik insight | Remote monitoring system |

ELECTRIC SYSTEM

| | |
|--|----------------------------------|
| Standard voltages | 380 - 690 V (± 10%) |
| Frequency | 50 - 60 Hz |
| Total input power | 70 kW |
| Main switch gear | NSX160N/38 |
| IP classification | Specification TS2-132 |
| Starting method | Star delta starter 380 - 575 V |
| Automatic cable reel | CR with tramming interlock |
| Cable reel control | At the operator station |
| Phase relay protection | With warning light |
| Front working lights (combined working and driving) | 4 x 50 W LED (4 200 lm, 6 000 K) |
| Rear tramming light | 2 x 50 W LED (4 200 lm, 6 000 K) |
| Manual search light | 1 x 17W LED (600 lm, 6 000K) |
| Operator station light | 1 x 5 W LED (24 V) |
| Sealed AGM batteries | 2 x 12 V, 80Ah |

AIR AND WATER SYSTEM

| | |
|----------------------------|---------------------------|
| Flushing of holes | By water |
| Water booster pump type | WBP1 (3 kW) |
| Water pump capacity | 33 l/min at 15 bar |
| Water pump inlet pressure | 2 - 5.4 bar |
| Flushing water pressure | 10 - 15 bar |
| Shank lubrication device | SLU-1 (air / oil mist) |
| Air compressor | CTN10 (1.0 m³/min, 7 bar) |
| Rock drill oil consumption | 100 g/h |
| Rock drill air consumption | 250 l/min |

OPERATOR'S SAFETY CANOPY

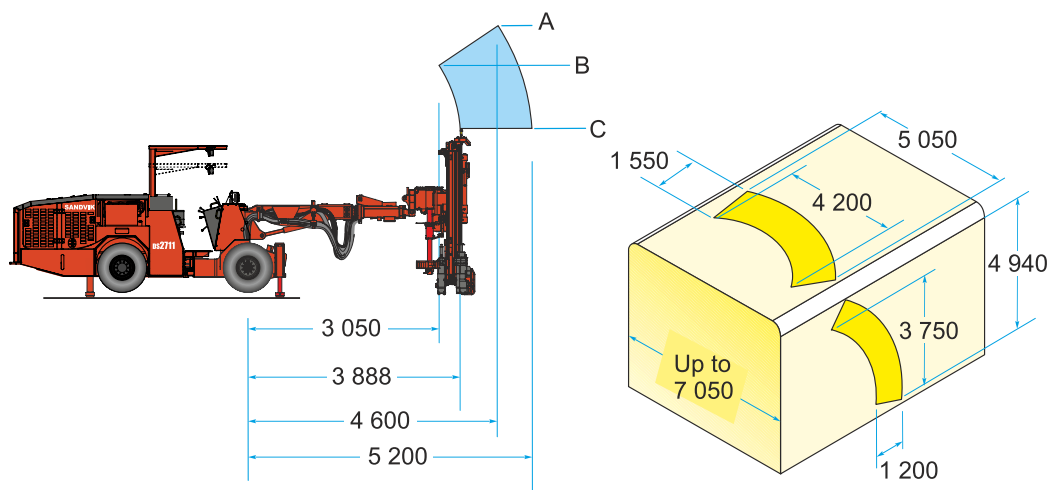
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| Canopy certification | FOPS (ISO 3449) |
| Unit height in tramming (FOPS) | High position : 2 750 mm Low position : 2 535 mm |
| Sound pressure level EN 16228 | Operator station: 102 dB(A) Emitted: 124 dB(A) |
| Operator's seat | Ergonomic T-back seat |

CARRIER

| | |
|------------------------------|--|
| Type of carrier | MERCURY (frame steered) |
| Carrier articulation | ± 35° |
| Rear axle oscillation | ± 6° |
| Ground clearance | 295 mm |
| Diesel engine | Deutz TCD3.6 L4EDG74 kW, Tier 4i, Stage IIIB |
| Exhaust catalyzer | Standard |
| Transmission | Hydrostatic, automotive |
| Wheel motor | 4 x radial piston |
| Tires | 315/85 x 15 |
| Service brakes | Hydrostatic and positive braking |
| Parking and emergency brakes | SAHR fail safe type wet disc brakes |
| Tramming speed | 8 km/h (Horizontal) 4 km/h (14%=1:7=8°) |
| Gradeability / sideways tilt | Max. 15° / 5° (according to EN 16228-2) |
| Fuel tank | 60 liters |
| Carrier stabilization | 2 x Telescopic (front) 2 x Vertical (rear) |
| Brake release | Manual hand pump |
| Centralized greasing points | Carrier |
| Hand held fire extinguisher | 1 x 6 kg, Type ABC |
| Tramming alarm | Standard |
| Colour scheme | Sandvik |
| Documentation | 2 x Operator's manual 2 x Maintenance manual 2 x Technical manual (in English only) 2 x Parts manual (in English only) 2 x CD of manuals (PDF files) |

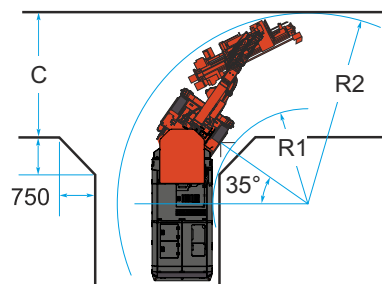
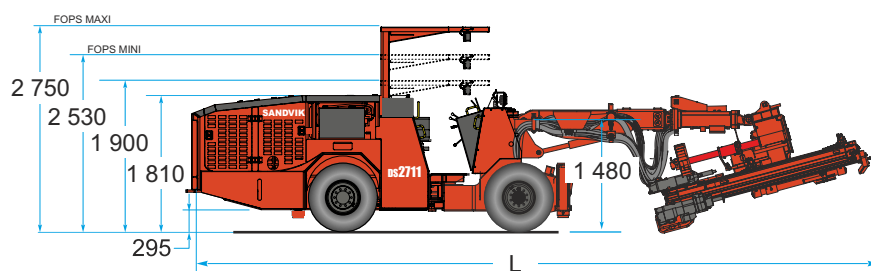
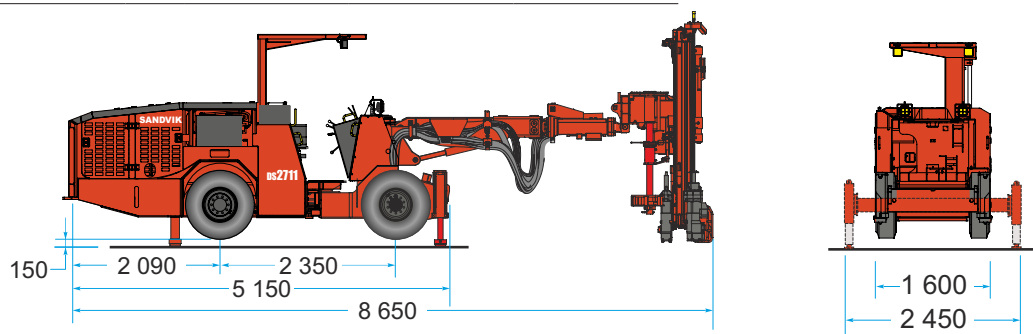
OPTIONAL FEATURES AND PACKAGES

| | |
|--|--|
| Bolting head | |
| *TUC bolting head length | TUC5, TUC6, TUC7, TUC8 |
| Bolting option | |
| *Bolting alternatives | GCR, GCC, WI, S, M |
| **"In the hole" resin cartridges injection | For GCR bolting system (TS2-290) |
| *H200 rock drill i/o HH200 | For S bolting system |
| Screen handler | On the main boom (TS2-355) with hooks for mesh on carrier side |
| Cleaning system | |
| HP system with reel | Up to 180 bar (TS2-343) |
| Electric system | |
| Multi-voltage | 1 000 V (50 / 60 Hz), with transformer |
| *Electric cables | Specification TS2-121 |
| Ground fault and overcurrent protection | VYK |
| Drilling and boom movement inhibition | 2 x switches and 1 x chain guard |
| Amber flashing light | LED (24 V) |
| Battery jump start | Optional |
| Proximity interface | PDS / VDS system (TS2-381) |
| Air and water system | |
| Air mist flushing kit | Specification TS2-285 |
| Water flushing with hole air cleaning | 1 x 60 liters air receiver |
| *End-of-hole flushing | With 1 x 60L air receiver requires CTN16 air compressor |
| Air mine connection | IP5 air cleaner |
| *Air compressor | CTN16, 1.6 m³/min (7 bar) |
| Water hose with hooks | 32 mm (1¼"), 80 meters |
| Greasing system | |
| Manual system | Greasing unit with pump, reel and nozzle |
| Operator's safety canopy | |
| Operator protection | Safety grill |
| Fire suppression system | |
| Spare hand held fire extinguisher | 1 x 6 kg Type ABC |
| Manual system | Ansul, 6 nozzles (Spec. 5-9800) |
| Auto. fire suppression system | Sandvik Eclipse™ |
| Carrier | |
| *Foam filled tires | 4 pcs |
| Wheel chocks and holders | 2 Sets |
| Speedometer | Control tramming speed |
| Extra items | |
| Berg plug and socket | |
| Spare rock drill | H200, RHR |
| Spare wheel assembly | Air or foam filled tires |
| Special tools for rock drill | Complete tool set (TS2-439) |
| Warranty extension | One year (excl. Kazakhstan) |
| Documentation | Extra manuals |
| Package: Country specific options | LAM, CIS, SAS |
| *Package: Harsh water | Advanced (TS2-049) |
| *Package: Arctic | For extreme conditions |
| *) Replaces standard feature | |



| Operating height (Min.) | | A (Maxi) | B (Optimum) | C (Mini) |
|-------------------------|----|----------|-------------|----------|
| DS2711 (TUC5) | mm | 5 800 | 4 950 | 3 175 |
| DS2711 (TUC6) | mm | 5 950 | 5 100 | 3 555 |
| DS2711 (TUC7) | mm | 6 100 | 5 250 | 3 850 |
| DS2711 (TUC8) | mm | 6 300 | 5 450 | 4 365 |

All dimensions in mm



| | | Total length (L) | Radius (R1) | Radius (R2) | T-cross (C) |
|---------------|----|------------------|-------------|-------------|-------------|
| DS2711 (TUC5) | mm | 9 000 | 2 900 | 5 430 | 3 030 |
| DS2711 (TUC6) | mm | 9 200 | 2 900 | 5 600 | 3 200 |
| DS2711 (TUC7) | mm | 9 400 | 2 900 | 5 770 | 3 370 |
| DS2711 (TUC8) | mm | 9 600 | 2 900 | 5 945 | 3 550 |

All dimensions in mm

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4. SANDVIK DS2711 - ROCK SUPPORT BOLTER