



DD2710 DEVELOPMENT DRILL

TECHNICAL SPECIFICATION

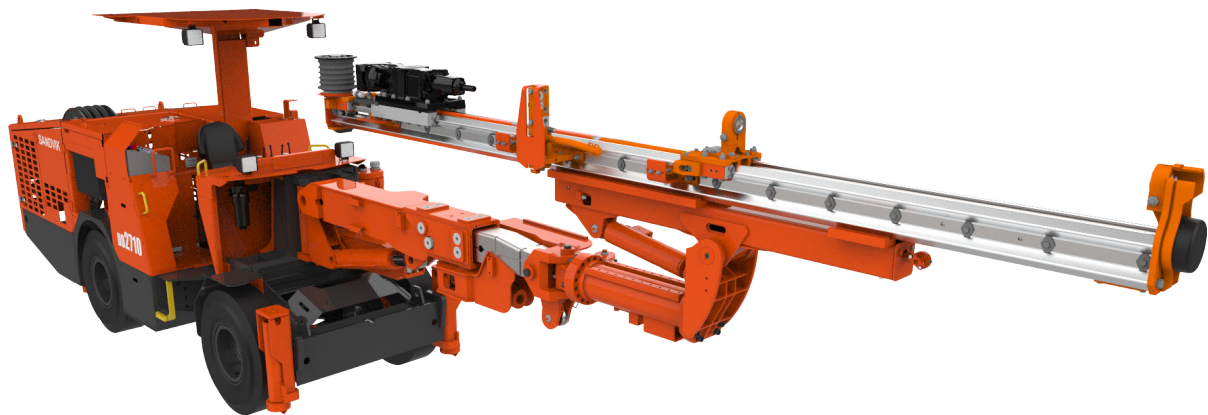
Sandvik DD2710 is a compact and flexible single-boom electro-hydraulic jumbo for development drilling in narrow vein and mass mining as well as in tunneling, in cross sections up to 34 m².

Sandvik DD2710 is equipped with Sandvik RDX5 hydraulic rock drill, which delivers 20 kW of percussion power for high penetration rates and good rock tool service life in varying rock conditions. The universal B26F boom is fitted with 360° feed rotation, automatic parallelism and a large and optimally shaped coverage, for fast and accurate face drilling and versatility. The direct controlled IBC control system has added automatic functions that allow the operator to concentrate safely on fast and accurate drilling.

Sandvik DD2710 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

| | |
|----------------------------|-------------------------------|
| Coverage area | 34 m ² |
| Hydraulic rock drill | 1 x RDX5 (20 kW) |
| Drill feed | 1 x TF500-12' (12' rods) |
| Boom | 1 x B26F |
| Hole length | 3 440 mm (12' rods) |
| T-section width in turning | 2 750 mm (TF512) |
| Transport width | 1 600 mm |
| Transport height | 2 070 mm / 2 750 mm |
| Transport length | 10 065 mm (TF512) |
| Operating weight | 11 400 kg depending on option |



HYDRAULIC ROCK DRILL

| | |
|-------------------------------|--|
| Type of rock drill | RDX5 (TS2-433) |
| Percussion power | 20 kW |
| Percussion pressure | 210 bar |
| Percussion rate | 67 Hz |
| Rotation speed | Max. 250 rpm (with OMS 80) |
| Rotation torque | 400 Nm (with OMS 80) |
| Hole diameter (face drilling) | 43 - 64 mm |
| Hole diameter (reaming) | 76 - 127 mm |
| Recommended rod | T38 - Hex 35 - R32 T38 - Hex 35 - Alpha 330 T38 - Hex 35 - R35 |
| Shank adapter (male) | T38 |
| Weight | 210 kg |

FIXED DRILLING FEED

| Type | | TF500-10' Option | TF500-12' Std | TF500-14' Option | TF500-16' Option |
|---------------------------|----|---------------------|------------------|---------------------|---------------------|
| Feed force | kN | Max. 25 | Max. 25 | Max. 25 | Max. 25 kN |
| Total length | mm | 4 690 | 5 300 | 5 910 | 6 520 |
| Rod length | mm | 3 090 (10') | 3 700 (12') | 4 305 (14') | 4 915 (16') |
| Hole length | mm | 2 830 | 3 440 | 4 050 | 4 660 |
| Weight (without hoses) | kg | 470 | 500 | 530 | 560 |

TELESCOPIC DRILLING FEED

| Type | | TFX6/12 Option | TFX8/14 Option |
|---------------------------|----|--------------------------|--------------------------|
| Feed force | kN | Max. 25 kN | Max. 25 kN |
| Total length | mm | 3 540 / 5370 | 4 150 / 5 980 |
| Rod length | mm | 1 830 (6') / 3 700 (12') | 2 440 (8') / 4 270 (14') |
| Hole length | mm | 1 610 / 3 440 | 2 220 / 4 050 |
| Weight (without hoses) | kg | 620 | 660 |

BOOM

| | | |
|--------------------------------|------------------------------------|-------------------------------|
| Type of boom | B26F (TS2-259) Standard | B26S-NV (TS2-259) Optional |
| Face drilling coverage | 29 m ² (parallel holes) | 28.4 m ² |
| Parallelism | Automatic hydraulic | Automatic hydraulic |
| Boom extension | 1 200 mm | 1 200 mm |
| Feed extension | 1 600 mm | 1 4500 mm |
| Boom weight (without hoses) | 1 850 kg | 1 900 kg |
| Feed roll-over | 360° | 360° |

HYDRAULIC SYSTEM

| | |
|--------------------------------|---|
| Powerpack | HPP 555 (1 x 55 kW) |
| Percussion and feed pump | 100 cc (variable) |
| Rotation pump | 33 cc (gear) |
| Filtration (pressure / return) | 20 µ / 10 µ |
| Oil tank volume | 200 liters |
| Cooler for hydraulic oil | OW30 oil-to-water (1 x 30 kW) |
| Low oil level indication | Level indicator and automatic switch-off |

DRILLING CONTROL SYSTEM

| | |
|-------------------------|---|
| Type of control system | THC561, hydraulic control |
| Rotation speed selector | Two rotation speeds can be preset (drilling and reaming) |
| Automatic cycle | Stop and return automatics |
| Drilling control | Feed / percussion control |
| Manual boom control | Direct control Fully proportional control Hydraulic parallelism |

ELECTRIC SYSTEM

| | |
|--|---|
| Standard voltages | 380 - 1 000 V (± 10%) |
| Frequency | 50 - 60 Hz |
| Total installed power | 70 kW |
| Main switch gear | NSX160N/38 |
| IP classification | Specification TS2-132 |
| Starting method | Star delta starter 380 - 575 V DOL for voltage above 575 V |
| Automatic cable reel | CR with tramming interlock |
| Cable reel control | At the operator station |
| Phase inverter detector | Automatic |
| Front working lights (combined working and driving) | 4 x 48 W LED (24 V) |
| Rear tramming lights | 2 x 48 W LED (24 V) |
| Operator station light | 1 x 5 W (24V) |
| Batteries | 2 x 12 V, 80Ah |
| Battery charger | 24 V, 10A |

AIR AND WATER SYSTEM

| | |
|----------------------------|--|
| Flushing of holes | By water |
| Water booster pump type | WBP1 (4 kW) |
| Water pump capacity | 40 l/min at 14 bar (inlet pressure = 4 bar) |
| Water pump inlet pressure | 2 bar (min.) |
| Flushing water pressure | 10 - 15 bar |
| Shank lubrication device | SLU-1 (air / oil mist) |
| Air compressor | CTN9, 1 m ³ /min (7 bar) |
| Rock drill oil consumption | 180 - 250 g/h |
| Rock drill air consumption | 250 - 350 l/min |

OPERATOR'S SAFETY CANOPY

| | |
|--------------------------------|---|
| 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: 96 dB(A) Emitted: 124 dB(A) |
| Operator's seat | For working / tramming Adjustable with seat belt |

CARRIER

| | |
|------------------------------|---|
| Type of carrier | MERCURY (frame steered) |
| Carrier articulation | ± 35° |
| Rear axle oscillation | ± 6° |
| Ground clearance | 240 mm |
| Diesel engine | Deutz TCD3.6 L4EDG, 74 kW, China IV |
| Exhaust catalyzer | Standard |
| Transmission | Hydrostatic, automotive |
| Wheel motors | 4 x radial piston |
| Tires | 10.00 - 15 |
| Service brakes | Hydrostatic and positive braking |
| Parking and emergency brakes | SAHR fail safe type wet disc brakes |
| Tramming speed | 9 km/h (Horizontal) 4 km/h (14%=1:7=8°) |
| Gradeability / sideways tilt | Max. 15° / 5° |
| Fuel tank | 60 liters |
| Carrier stabilization | 2 x Telescopic (front) 2 x Vertical (rear) |
| MySandvik insight | Remote monitoring system (FDM) |
| Brake release | Manual hand pump |
| Centralized greasing points | Carrier |
| Hand held fire extinguisher | 1 x 6 kg (type ABC) |
| Tramming alarm | Backward alarm |
| Colour scheme | Sandvik |
| Documentation | 1 x Operator's manual 1 x Maintenance manual 1 x Technical manual (in English only) 1 x Parts manual (in English only) 2 x USB key of manuals (PDF files) 1 x Online parts manuals (MySandvik) |

OPTIONAL FEATURES AND PACKAGES**Boom**

*Boom type B26S-NV boom instead of B26F

Drilling feed

*Feed length TF500, 10', 14' or 16' rods
*Telescopic feed TFX6/12 or TFX8/14 (fast return valve)
Rod retainer TRR1 (+ 35 mm length of the feed)

Hydraulic system

Filling pump for hydraulic oil Electric

Drilling control system

AMS feed angle measurement Feed swing and feed tilt displayed

Cleaning system

LP system with reel Up to 15 bar (TS2-343)
HP system with reel Up to 180 bar (TS2-343)

Electric system

*Multi-voltage 1 000 V (50 Hz) with multivoltage transformer
*Electric cables Specification TS2-121
Ground fault and overcurrent protection VYK200, VYK1000
Battery jump start Optional
Dewatering pump outlet 8 kW (site voltage 380 - 1 000 V)
Amber flashing light LED (24V)

Air and water system

Flushing flow controls Activates antijamming when water flow is low
*Air compressor CTN16 (1.6 l/min at 7 bar)
*Air mist flushing For external air and water supply (IP5 air cleaner included)
Air cleaner IP5 with air supply
*End-of-hole flushing CTN16 with 1 x 60L air receiver
Hooks for water / air hose 2 hooks

Greasing system

Manual system Greasing unit with pump, reel and nozzle (TS2-463)

Operator's safety canopy

Operator protection Safety grill

Fire suppression system

Manual or automatic system Ansul, 6 nozzles (TS2-460)
Auto. fire suppression system Sandvik Eclipse™ (TS2-461)

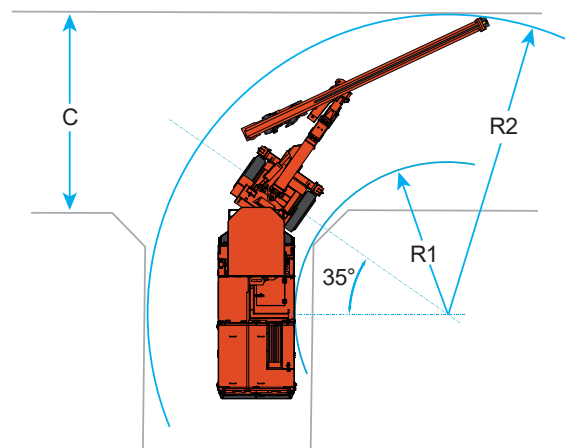
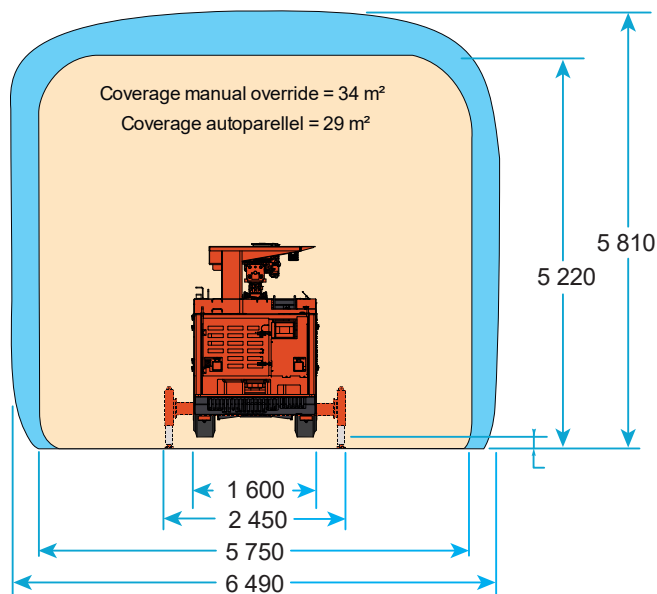
Carrier

*Diesel engine Deutz TCD3.6 L4EDG, 74 kW, Stage IIIA, China III
High altitude engine kit Hydraulic unloading for high altitude engine start
*Foam filled tires 4 pcs
Speedometer For 2700 serie
Wheel chocks and holders 2 Sets

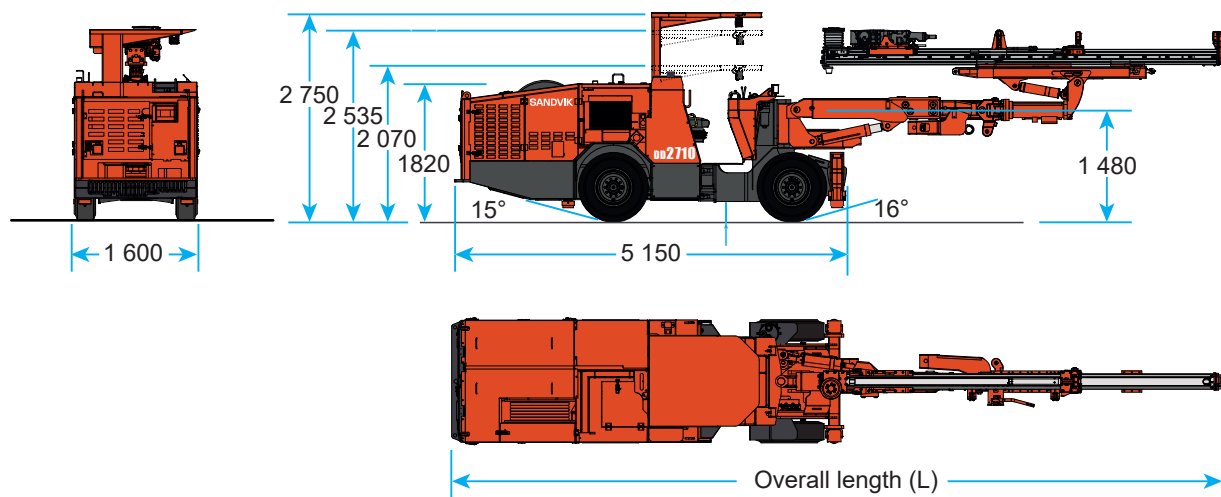
Extra items

Berg plug and socket
Spare rock drill RDX5
Spare wheel assembly Standard or foam filled tires
Special tools for rock drill Field tool set (TS2-434)
Complete tool set (TS2-435)
Documentation Extra manuals
*Package: Harsh water Advanced (TS2-049)

**)Replaces standard feature*



| Feed | R1 | R2 | C | L |
|-----------|----------|----------|----------|-----------|
| TF500-10' | 2 900 mm | 4 980 mm | 2 630 mm | 9 485 mm |
| TF500-12' | 2 900 mm | 5 100 mm | 2 750 mm | 10 065 mm |
| TF500-14' | 2 900 mm | 5 235 mm | 2 880 mm | 10 285 mm |
| TF500-16 | 2 900 mm | 5 720 mm | 3 330 mm | 11 275 mm |
| TFX6/12 | 2 900 mm | 4 930 mm | 2 510 mm | 9 810 mm |
| TFX8/14 | 2 900 mm | 4 930 mm | 2 510 mm | 9 810 mm |



All dimensions in mm

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4. SANDVIK DD2710 - DEVELOPMENT DRILL