Our Sandvik DD2711 is a compact and flexible single-boom electro-hydraulic jumbo for mining development and construction tunneling for small and medium size tunnels with cross-section (Width x Height) minimum 2.7 m x 3.0 m and maximum 6.4 m x 5.8 m. Sandvik versatile boom B26F is fitted with 360° feed rotation and delivers large and optimally shaped coverage with automatic parallelism for fast and accurate face drilling, while 20 kW of drilling percussion power is provided through Sandvik RDX5 rock drill, it delivers high penetration rates and good rock tool service life in varying rock conditions.

The Sandvik IBC direct hydraulic drilling control system with automatic functions allows the operator to concentrate safely during fast and accurate drilling in development blast holes length from 3.7 to 4.3m. Sandvik DD2711 is mounted on a 4-wheel drive frame-steered and diesel-powered carrier, which features a FOPS-approved safety canopy, and layout designed with a 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 on a ground level.

**KEY FEATURES**

<table>
<thead>
<tr>
<th>Specification</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Coverage area</td>
<td>34 m²</td>
</tr>
<tr>
<td>Hydraulic rock drill</td>
<td>1 x RDX5 (20 kW)</td>
</tr>
<tr>
<td>Drill feed</td>
<td>1 x TF500-12' (12' rods)</td>
</tr>
<tr>
<td>Boom</td>
<td>1 x B26F</td>
</tr>
<tr>
<td>Hole length</td>
<td>3.440 mm (12' rods)</td>
</tr>
<tr>
<td>T-section width in turning</td>
<td>2.750 mm (TF512)</td>
</tr>
<tr>
<td>Transport width</td>
<td>1.600 mm</td>
</tr>
<tr>
<td>Transport height</td>
<td>2.070 mm / 2.750 mm</td>
</tr>
<tr>
<td>Transport length</td>
<td>10.065 mm (TF512)</td>
</tr>
<tr>
<td>Operating weight</td>
<td>11,600 kg depending on option</td>
</tr>
</tbody>
</table>
**HYDRAULIC ROCK DRILL**

- **Type of rock drill**: RDX5 (TS2-433)
- **Percussion power**: 20 kW
- **Percussion pressure**: Max. 220 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
- **Shank adapter (male)**: T38
- **Weight**: 210 kg
- **Filling device for accumulators**: Specification TS2-430

**DRILLING FEED**

<table>
<thead>
<tr>
<th>Type</th>
<th>TF500-12'</th>
<th>TF500-14'</th>
<th>TF500/12</th>
<th>TF500/14</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standard</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
<td>Option</td>
</tr>
<tr>
<td>Feed force kN</td>
<td>Max. 25</td>
<td>Max. 25</td>
<td>Max. 25</td>
<td>Max. 25</td>
</tr>
<tr>
<td>Total length</td>
<td>5 270</td>
<td>5 880</td>
<td>5 430</td>
<td>6 000</td>
</tr>
<tr>
<td>Rod length</td>
<td>3 700 (12')</td>
<td>4 305 (14')</td>
<td>1 830 (6') / 3 700 (12')</td>
<td>1 830 (6') / 3 700 (12')</td>
</tr>
<tr>
<td>Hole length</td>
<td>4 050</td>
<td>4 050</td>
<td>1 610 / 4 440</td>
<td>2 220 / 4 050</td>
</tr>
<tr>
<td>Weight (w/o hoses) kg</td>
<td>500</td>
<td>530</td>
<td>640</td>
<td>680</td>
</tr>
</tbody>
</table>

**BOOM**

- **Type of boom**: B26F (TS2-259)
- **Face drilling coverage**: 29 m² (parallel holes)
- **Parallelism**: Automatic hydraulic
- **Boom extension**: 1 200 mm
- **Feed extension**: 1 600 mm
- **Boom weight (without hoses)**: 1 850 kg
- **Feed roll-over**: 360°

**HYDRAULIC SYSTEM**

- **Powerpack**: HPP 555 (1 x 55 kW)
- **Operating principle**: Direct hydraulic control
- **Percussion, rotation, feed and boom pump (triple pump)**: 65 cc + 35 cc + 16 cc (50 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 (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-F, hydraulic
- **Controls**
  - Direct control
  - Fully proportional
  - Fast rock drill return movement
- **Drilling control**
  - Feed / percussion control
  - Anti-jamming system
- **Automatic cycle**
  - Stop automatics
  - (for TF-feed without rod retainer)
- **Fast and rock drill return**
  - Manual
- **MySandvik insight**
  - Remote monitoring system

**ELECTRIC SYSTEM**

- **Standard voltages**: 380 - 690 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
- **Automatic cable reel**
  - CR with tramming interlock
- **Cable reel control**
  - At the operator station
- **Phase relay protection**
  - With warning light
- **Front lights** (combined working and driving)
  - 4 x 50 W LED (4 200 lm, 6 000 K)
- **Rear tramming lights**
  - 2 x 50 W LED (4 200 lm, 6 000 K)
- **Operator station light**
  - 1 x 5 W (24V)
- **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 (inlet pressure = 4 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**: CNT10 (1.0 m³/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: 102 dB(A)
  - Emitted: 124 dB(A)
- **Operator’s seat**
  - Ergonomic T-back seat
**CARRIER**

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

**OPTIONAL FEATURES AND PACKAGES**

- **Boom**
  *Type of boom* B26S-NV instead of B26F (TS2-156)

- **Drilling feed**
  *Feed length* TFS14 (14 rods)
  *Telescopic feed* TF6X12, TFX8/14
  *Rod retainer* TRR1 incl. safety wire, add 35 mm length of the feed

- **Cleaning system**
  HP system with reel Up to 180 bar (TS2-343)

- **Electric system**
  Multi-voltage
  *Electric cables* 1 000 V (50 / 60 Hz), with transformer Specification TS2-121 Vyk
  Ground fault and overcurrent protection
  Drilling and boom movement inhibition
  Amber flashing light
  Battery jump start
  Proximity interface
  LED (24 V) Optional

- **Air and water system**
  *Air mist flushing kit* Specification TS2-285
  With 1 x 60L air receiver requires CTN16 air compressor
  Air mine connection
  *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 RDXS
  Spare rock drill
  Special tools for rock drill Field tool set (TS2-434)
  Warranty extension Complete tool set (TS2-435)
  Documentation Extra manual (printed)
  Package: Country specific options LAM, CIS, SAS
  *Package: Harsh water* Advanced (TS2-049)
  *Package: Arctic* For extreme conditions (N/A with 1 000V)
  *Package: Dry drilling* CTN16 with 1 x 60L air receiver, air / oil cooler, dust hood on feed, readiness for hydraulic supply. Dust collector is not supplied.

* Replaces standard feature
Sandvik Mining and Rock Technology reserves the right to make changes to the information on this data sheet without prior notification to users. Please contact a Sandvik representative for clarification on specifications and options.

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4. SANDVIK DD2711 - DEVELOPMENT DRILL