

DB120 UNDERGROUND DRILLS

TECHNICAL SPECIFICATION

Sandvik DB120 is a completely self-contained unit for secondary breaking using drill-split method. It breaks oversized boulders in a safe and efficient way to manage material flows and minimize production downtime.

Operations are controlled from a safe distance using a radio remote control panel. Since explosives are not needed the working environment has low levels of dust and vibrations. The compact size and agile carrier make manoeuvrability in challenging underground conditions easier.

KEY FEATURES

| | |
|----------------------|-----------------|
| Method | Drill - split |
| Splitter | Hydraulic wedge |
| Splitting force | 6 500 kN |
| Drift size (minimum) | 3 m x 3 m |
| Hole diameter | 48 mm |
| Hole length | 800 - 1 200 mm |
| Control system | Radio remote |
| Total weight | 5 600 kg |



HYDRAULIC ROCK DRILL

| | |
|--------------------------|--|
| Type of rock drill | HLX1 (TS2-253) |
| Percussion power | 6.5 kW |
| Operating pressure | 100 - 180 bar |
| Percussion rate | 70 - 88 Hz |
| Rotation torque | 100 Nm (at 100 bar) |
| Drill steel | Shank R25 Coupling sleeve R25 Extension rod 5' Button bit R25 |
| Hole diameter | 48 mm |
| Weight | 50 kg |
| Length | 488 mm |
| Profile height | 66 mm |
| Shank lubrication device | Air / oil mist |

HYDRAULIC SPLITTER

| | |
|------------------------|--------------------|
| Required hole diameter | 48 mm |
| Length of wedge | 1 430 mm |
| Minimum hole depth | 800 mm |
| Splitting force | 6 500 kN |
| Weight | 65 kg |
| Max. pressure | 300 bar |
| Greasing | Automatic oil mist |

ROCK DRILL FEED

| | |
|-----------------------|----------|
| Chain feed for HLX1 | CF300-5' |
| Feed length | 2 525 mm |
| Rock drill travel | 1 300 mm |
| Max. hole length | 1 200 mm |
| Feed / pull out force | 15 kN |

SPLITTER FEED

| | |
|-------------------------|-----------------|
| Chain feed for splitter | CF300, Splitter |
| Feed length | 2 180 mm |
| Splitter travel | 1 165 mm |

BOOM

| | |
|--------------|----------------------------|
| Type of boom | DB300 special, articulated |
| Boom swing | ± 39° |
| Feed swing | ± 40° |
| Feed tilt | 104° |

HYDRAULIC SYSTEM

| | |
|----------------------------|--|
| Powerpack | Diesel engine |
| Percussion pump | Variable displacement pump 2 gear pumps |
| Filtration size | 10 micron (abs) |
| Cooling capacity | Up to ± 40°C ambient |
| Hydraulic oil tank | 75 liters |
| Driving, boom and drilling | Load sensing system |

CONTROL SYSTEM

| | |
|---------------------------|---|
| Driving and jack control | Radio remote |
| Boom and drilling control | Radio remote |
| Splitter control | Radio remote |
| Collaring control | Automatic, adjustable |
| Percussion control | Controlled by feed pressure |
| Anti-jamming system | Both feed and percussion are controlled by relays |

ELECTRIC SYSTEM

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|-------------------------|---|
| Standard voltage | 12 V |
| Working lights | 4 x 17 W LED (carrier) 2 x 17 W LED (boom) |
| Luminous flux per light | 570 lm |

FLUSHING SYSTEM

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|----------------------------|----------------------------------|
| Flushing | Air mist flushing |
| Flushing air pressure | 4 - 8 bar |
| Compressor | Enduro, 12, screw type |
| Compressor capacity | 2.5 m ³ /min |
| Air consumption | 250 NI/min |
| Oil consumption | 50 - 100 g/h |
| Air cleaner for compressor | 1 pc |
| Water tank | 250 liters pressurised, on-board |
| Max. water flow | 1 - 5 l/min |

CARRIER

| | |
|-----------------------------|---|
| Type of carrier | DC302R special |
| Carrier type | Rubber tyred, 4-wheel drive |
| Oscillation angles | ± 16° |
| Max. banking | ± 5° |
| Ground clearance | 380 mm |
| Diesel engine | CAT C4.4, 61 kW, Tier 3, Stage IIIA |
| Exhaust catalyzer | Standard |
| Air cleaner for engine | 1 pc |
| Transmission | Hydrostatic |
| Tires | 11.5/80 - 15.3 |
| Service brakes | Spring applied, hydraulically released |
| Tramming speed | 5.1 km/h (Horizontal) 4.5 km/h (14%=1:7=8°) Slow drive limited at 1 km/h |
| Gradeability | Max. 15° |
| Average fuel consumption | 8 - 10 l/h |
| Fuel tank | 100 liters |
| Fuel saving system | Standard |
| Hand held fire extinguisher | 7.7 or 9 kg (type ABC) |
| Hydraulic jacks | 2 x Vertical (front) 2 x Vertical (rear) |
| 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 Toolman CD |

OPTIONAL FEATURES AND PACKAGES**Drilling control system**

| | |
|------------------------|---------------------|
| Video camera assistant | For remote controls |
|------------------------|---------------------|

Fire suppression system

| | |
|------------------------------|--------------------------|
| Additional fire extinguisher | 1 x 7.7 or 9 kg Type ABC |
| Automatic system | Ansul, 6 nozzles |
| Automatic system | FS1000 (above 0°C) |

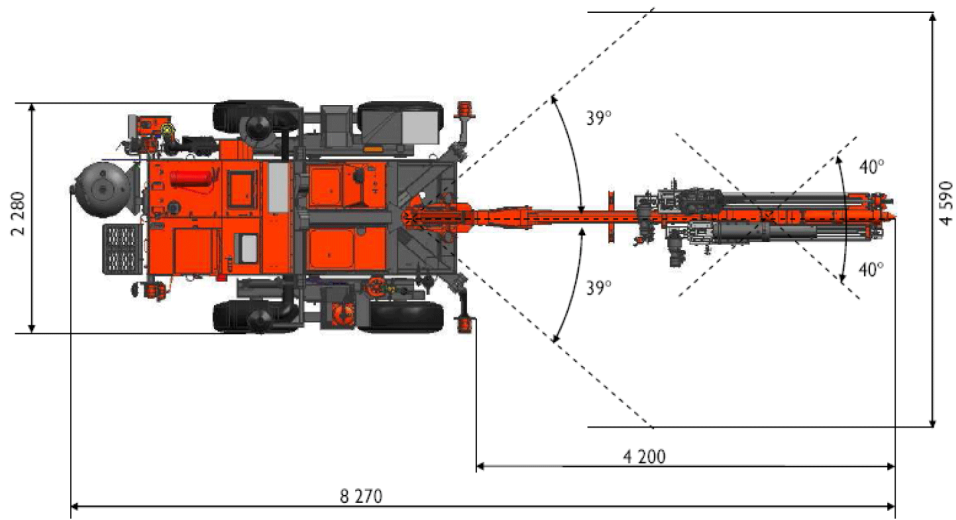
Carrier

| | |
|--------------------------|--------|
| Electric engine heater | |
| Wheel chocks and holders | 2 Sets |

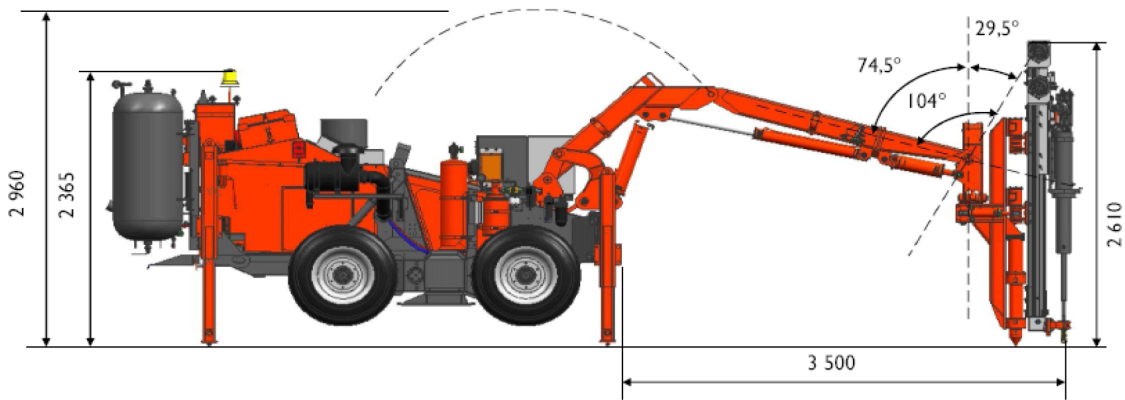
Extra items

| | |
|------------------------------|---|
| Spare rock drill | HX1 |
| Spare wheel assembly | 11.5/80 - 15.3 |
| Special tools for rock drill | HX1 |
| Documentation | Extra manuals |
| DB start up kit | 2 x bushing 1x spline 1x set of drilling tools (shank, coupling sleeve, extension rod and bit) |

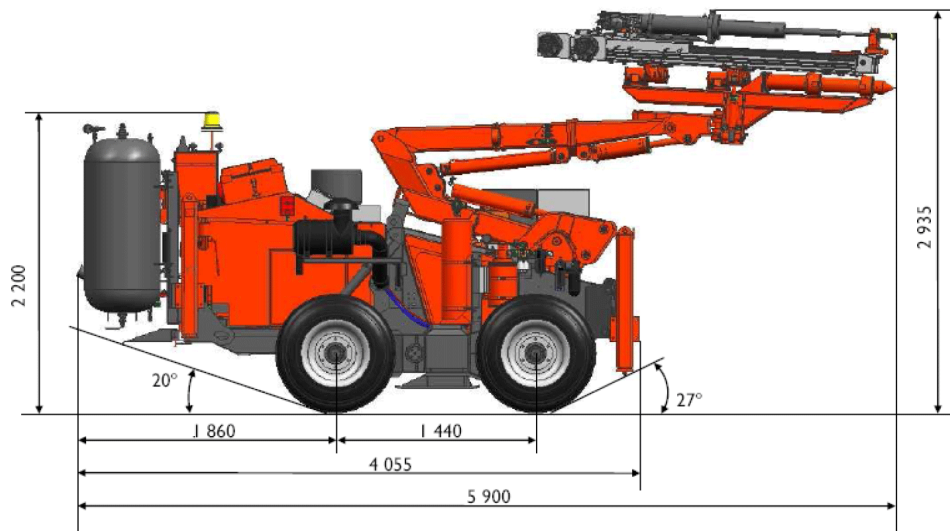
*) replaces standard feature



All dimensions in mm



All dimensions in mm



All dimensions in mm