



**SONICOR 50K  
DRILL HEAD**



The **SONICOR 50K** sends high frequency mechanical oscillations down the drill string to the bit. The operator controls frequencies to suit specific conditions of soil/rock geology. High frequency vibrations fluidize the soil particles at the bit face, allowing for fast and easy penetration in most geological formations, including boulders and bedrock.

**SONIC DRILL CORPORATION**

DESIGNERS AND MANUFACTURERS OF WORLD-LEADING SONIC DRILL RIGS



## FEATURES

- Patented technology exclusive to Sonic Drill Corporation
- Numerous units in daily service worldwide
- Clean and compact design
- Robust construction for severe duty
- Proven reliability through many years of service
- Field-proven in many applications
- Long service life between overhaul periods
- Minimal maintenance required and easily serviceable
- Fully rebuildable for infinite life
- All replacement components kept in stock
- Counter rotating rollers generate high power sinusoidal force
- Internal air spring isolates vibrations from the rest of the rig
- Compact gear box requires only one drive motor, saving weight and hydraulic hosing
- No external grease lubrication required
- Top swivel operates completely dry, eliminating the risk of contaminating the drilling fluid for environmentally sensitive applications
- Ability to operate in any position
- Ability to function as a standard air or mud rotary drill head

- Sonic Drill Corporation originated sonic drilling technology and introduced the concept to the drilling industry
- Our equipment is the result of over 25 years of extensive research and development
- We have a solid history of real world testing with machines in daily operation around the world in a variety of applications



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\*SPECIFICATIONS ARE SUBJECT TO CHANGE WITHOUT NOTICE

Sonic Drill Corporation is the world leader in the design and manufacture of Sonic drill rigs as well as rig conversions, options and drill tooling.

For more information, visit our website at [www.sonic-drill.com](http://www.sonic-drill.com) or contact us at +1 604 725 1725, toll free +1 866 636 6781.

## SONIC DRILL CORPORATION

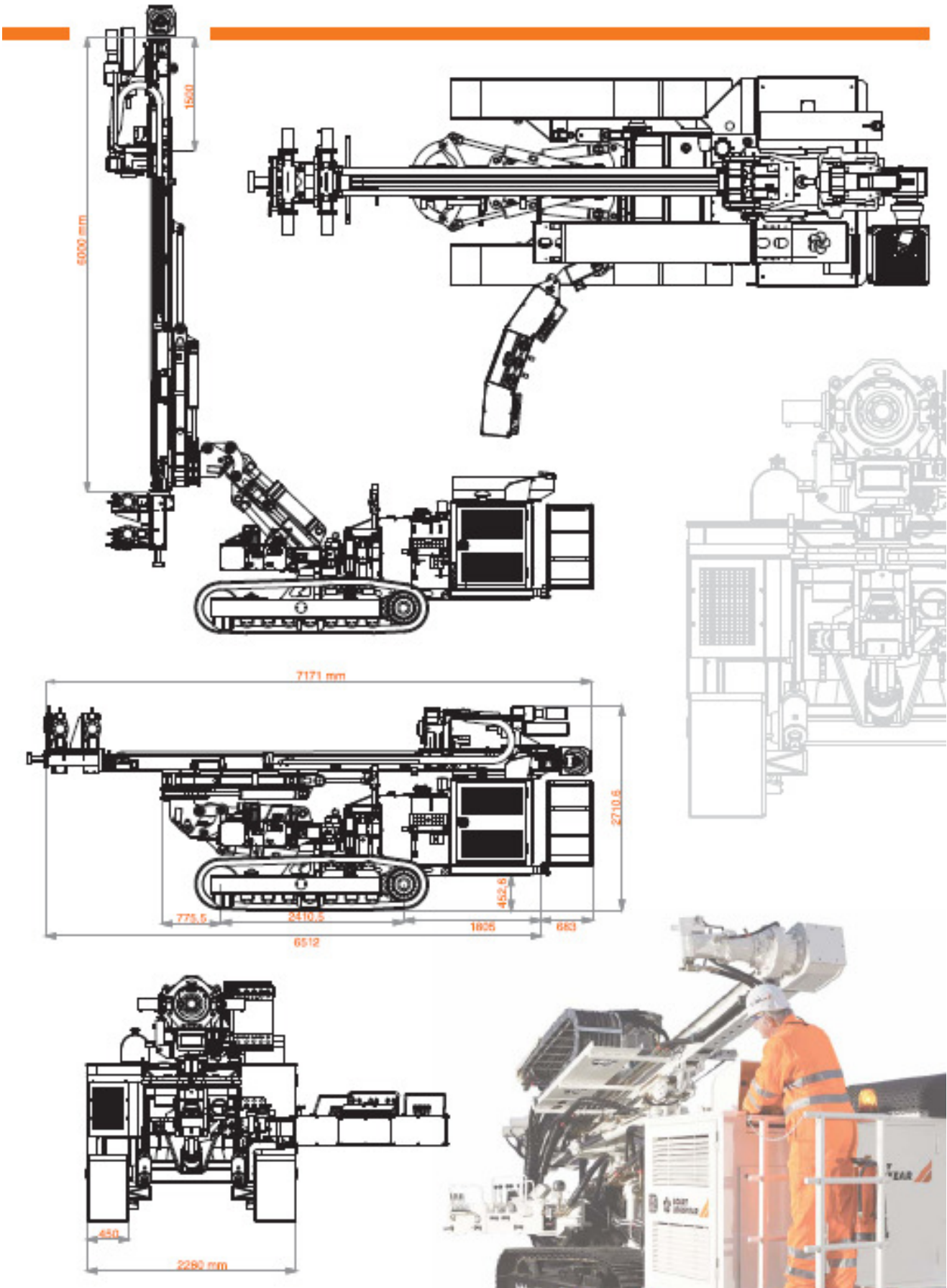
SUITE 400-120, 114 WEST MAGNOLIA ST BELLINGHAM, WA 98255  
PH +1 604 725 1725 TF +1 866 636 6781 SONIC-DRILL.COM



**SDC500-28E**



**SONIC CRAWLER RIG**



## EC – CONFIRMITY DECLARATION

EC Declaration of Conformity\* according to the EC guidelines 98/37CE and 2000/14/EG

Manufacturer: **BOART LONGYEAR OD DIVISION**  
D-36132 EITERFELD  
MEININGER WEG 14

Kind of unit: **Anchor drill rig**

Type: **DeltaBase 102**

Serial no.: **102 190 / 07**

Year of construction: **06 / 2007**

Power: **147 kW / 2300 min<sup>-1</sup>**

Measured sound power level: L<sub>wa</sub>= **107 dB(A)**

Guarenteed sound power level: L<sub>wad</sub>= **109 dB(A)**

Procedure of evaluation  
According guideline 2000/14/EG: **Validation of conformity according to guideline 2000/14/CE as per enclosure V.**

Correspondent to the following applicable directives: **Directive:  
98/37/EG  
2000/14/EG  
97/23/EG  
73/23/EWG**

Applied harmonized European norms: **DIN EN ISO 12100-1; Security of machines  
DIN EN ISO 12100-2; Security of machines  
DIN EN 791 Security of machines**

**DIN EN 60947-5-4:2004 Low-voltage switchgear and controlgear:  
Control circuit devices and switching elements**

**DIN EN 13309:2000 Construction machines – electromagnetic compatibility of machines with internal electrical power supply**

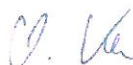
National technical regulations and specifications were used.

**\* Important note**

This conformity declaration has only validity for the type of machine and the series No. in accordance with order number and the specifications contained in it. Changes by the owner/operator of the machine lead to the invalidity of this declaration. This must be requested again with the manufacturer or be issued and confirmed by the owner/operator that the machine agrees with the relevant guidelines.

Place / Date Eiterfeld, 5-Jul-07

Signature:



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Christof Kruse, Engineering manager GeoTech

 **BOART LONGYEAR**