



## **HIGH FREQUENCY VIBRATORY-ROTARY DRILL HEAD, TONE-SONIC "SD-175"**

**TONE-SONIC SD-175** drill head combines the rotation with high frequency vibration to advance drill pipe. High frequency vibrations are transmitted down drill pipe to drill bit. The frequency can be adjusted to suit specific geology. High frequency vibratory action fluidizes soil particles and displaces them away from the bit face, allowing for clean, fast and easy penetration in a variety of geological formations.



### **FEATURES**

- Long service interval between overhaul periods
- Robust construction for severe duty
- Wide drilling applications
- Ability to operate from horizontal to vertical position
- Internal air damper isolates vibrations from the rest of drill rig components
- Numerous units in worldwide

**TOA-TONE BORING CO., LTD.**

URL: <http://www.toa-tone.jp>



## UNDERGROUND GEOTHERMAL HOLE DRILLING BY TONE-SONIC DRILL FITTED WITH SD-175 DRILL HEAD



Drilling site at Kofu Municipal Hall, Yamanashi Pref.



Drilling site at shopping center, Kanagawa Pref.



Drilling site at head office of a trust bank, Yamanashi Pref.



Drilling site at residential district

### MAIN TECHNICAL FEATURES OF SD-175 DRILL HEAD

- Rotation Speed : 0 - 100 min<sup>-1</sup>
- Rotation Torque : Forward; 4.9 kNm Reverse; 5.9 kNm
- Max. frequency : 150 Hz
- Weight : Approx. 1100 kg

In accordance with our policy of constant improvement, we reserve the right to amend design, materials, specifications and prices at any time without prior notice.



### **TOA-TONE BORING CO., LTD.**

3-7 Roppongi 7-chome, Minato-ku, Tokyo 106-0032, Japan  
Phone: 03-5775-3921 Fax: 03-5775-3967  
ULR: <http://www.toa-tone.jp>

