

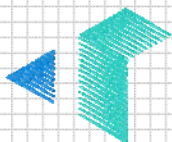
TONE-SONIC DRILL "SD-175" VIBRATORY-ROTARY DRILL

"DRILL FAST, DRILL SMOOTHLY and DRILL ACCURATELY"

Ensure effective drilling with less noise and vibration

TONE-SONIC DRILL

INNOVATIVE ADVANCED TECHNOLOGY



TOA-TONE BORING CO., LTD.

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

TONE-SONIC DRILL TECHNOLOGY is

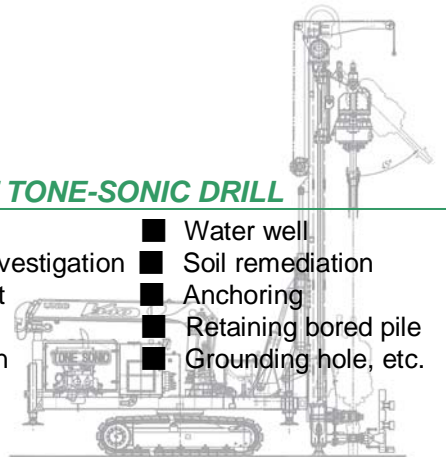
an epoch-making drilling system transmitting high frequency vibration and rotation to drill bit and enables faster drilling than ordinary rotary drilling, DTH hammer drilling or hydraulic drifter drilling methods.

FEATURES OF TONE-SONIC DRILL

- Applicable to most of ground formation
- Enables drilling without circulation fluid
- Enables continuous sampling
- Has less drilling disposal
- Has high verticality of drilled hole

APPLICATION OF TONE-SONIC DRILL

- Geothermal hole
- Environmental investigation
- Soil improvement
- Dewatering hole
- Well rehabilitation
- Water well
- Soil remediation
- Anchoring
- Retaining bored pile
- Grounding hole, etc.



Geothermal hole drilling



Geothermal hole drilling



Water well drilling

TECHNICAL SPECIFICATIONS

ROTARY HEAD		FRAME	
Type	Hydraulic motor driven	Type	Hydraulically raised & lowered
Rotation speed	0 – 105 min ⁻¹	Vertical slide stroke	1500 mm
Tilting angle range	0 – 45°	Sideway swing angle	±5°
Sideway slide stroke		HOIST	
Rotating torque	Forward: 4.9 kN-m	Type	Hydraulic motor driven
	Reverse: 5.9 kN-m	Hoist capacity	6.9 kN
FEED SYSTEM		Spooling capacity	9.0 mm x 20 m
Type	Hydraulic motor with chain	UNDERCARRIAGE	
Feed force	98.0 kN	Traveling speed	5.0/3.7 km/h
Balance force	98.0 kN	Gradeability	15°
Feed speed	0 – 14.5 m/min.	LEVELING JACK	
Stroke length	4450 mm	Stroke	700 mm
OSCILLATOR		ENGINE	
Type	Hydraulic motor driven	Output	175 PS(128 kW)/2200 min ⁻¹
WEIGHT		HYDRAULIC BREAKOUT SYSTEM	
Drill unit weight	Approx. 13600 kg	Applicable pipe range	3-1/2" – 10-3/4"

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.



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