

# TONE-SONIC DRILL "SD-175"

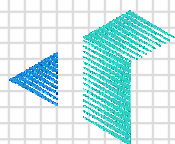
## VIBRATORY-ROTARY DRILL

"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.

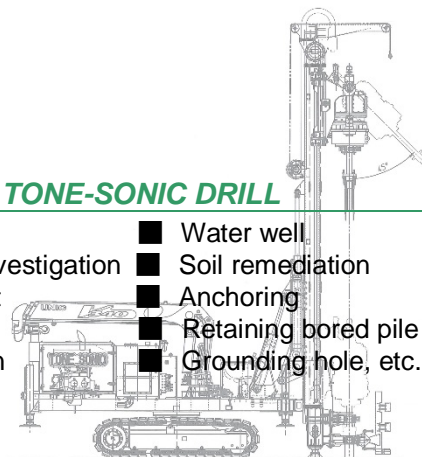
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### FEATURES OF TONE-SONIC DRILL

- 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 <sup>-1</sup>	Vertical slide stroke	1500 mm
Tilting angle range	0 – 45°	Sideway swing angle	±5°
Sideway slide stroke	650 mm	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 <sup>-1</sup>
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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STD.: ISO 9001 CERT NO.: 727099