

# High Frequency Vibratory-Rotary Drill TONE-SONIC DRILL "SD-125"

*"DRILL FAST, DRILL SMOOTHLY and DRILL ACCURATELY"*

*A very compact "SD-125" Drill with larger feed capacity and rotating torque than those of "SD-100" Drill joined in lineup of TONE-SONIC Drill Series.*



**TONE-SONIC DRILL**  
INNOVATIVE ADVANCED TECHNOLOGY



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

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

**TONE-SONIC DRILL TECHNOLOGY is**

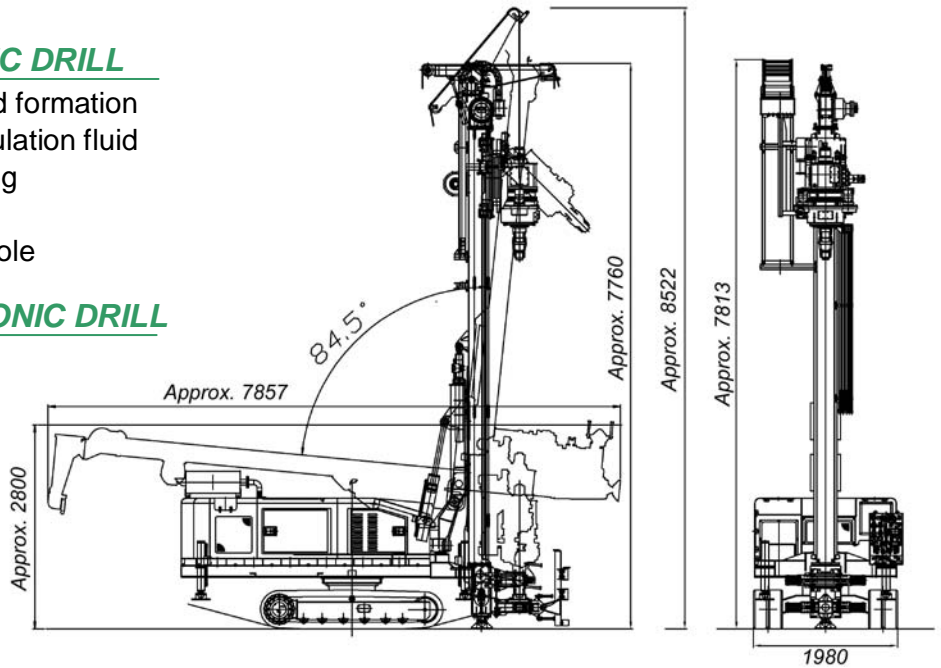
An epoch-making drilling system transmitting high frequency vibration and rotation to drill bit and enables faster drilling than ordinary rotary drilling, DTH hammer drilling or hydraulic drifter drilling methods.

**FEATURES OF TONE-SONIC DRILL**

- Applicable to most of ground formation
- Enables drilling without circulation fluid
- Enables continuous sampling
- Less drilling disposal
- Higher verticality of drilled hole

**APPLICATION OF TONE-SONIC DRILL**

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



**TECHNICAL SPECIFICATIONS**

ROTARY HEAD		FRAME	
Type	Hydraulic motor driven	Type	Hydraulically raised & lowered
Rotation speed	0 -57 min <sup>-1</sup> at low	Vertical slide stroke	1000 mm
	0 -114 min <sup>-1</sup> at high	Sideway swing angle	±5°
Tilting angle range	0 - 45°	HOIST	
Rotating torque	At low : 5.88 kNm	Type	Hydraulic motor driven
	At high : 2.94 kNm	Hoist capacity	6.9 kN
FEED SYSTEM		Spooling capacity	9.0 mm x 20 m
Type	Hydraulic motor with chain	UNDERCARRIAGE	
Feed force	68.6 kN	Fuel tank capacity	250 L
Balance force	68.6 kN	Oil tank capacity	400 L
Feed speed	0 - 15.0 m/min.	LEVELING JACK	
Stroke length	4630 mm	Stroke	500 mm
OSCILLATOR		ENGINE	
Type	Hydraulic motor driven	Output	126 PS(93 kW)/2200 min <sup>-1</sup>
WEIGHT		HYDRAULIC BREAKOUT SYSTEM	
Drill unit weight	Approx. 10000 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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