

# LARGE HOLE DIAMETER REVERSE CIRCULATION DRILL TOA-TONE "DOWN-THE-HOLE BIT"

- Suitable for 1200 - 2500 mm diameter large hole drilling up to max. 100 m depth
- Base machine is selectable from various type such as kelly type earth drill, skid type top drive drill, pile top drill, etc.
- Since the bit rotation mechanism is built inside the drill, required functions of base machine are the counter torque device and feed system only so that the structure of base machine could be very simple and compact.
- High drilling performance by effective discharge of cuttings by built-in sand pump



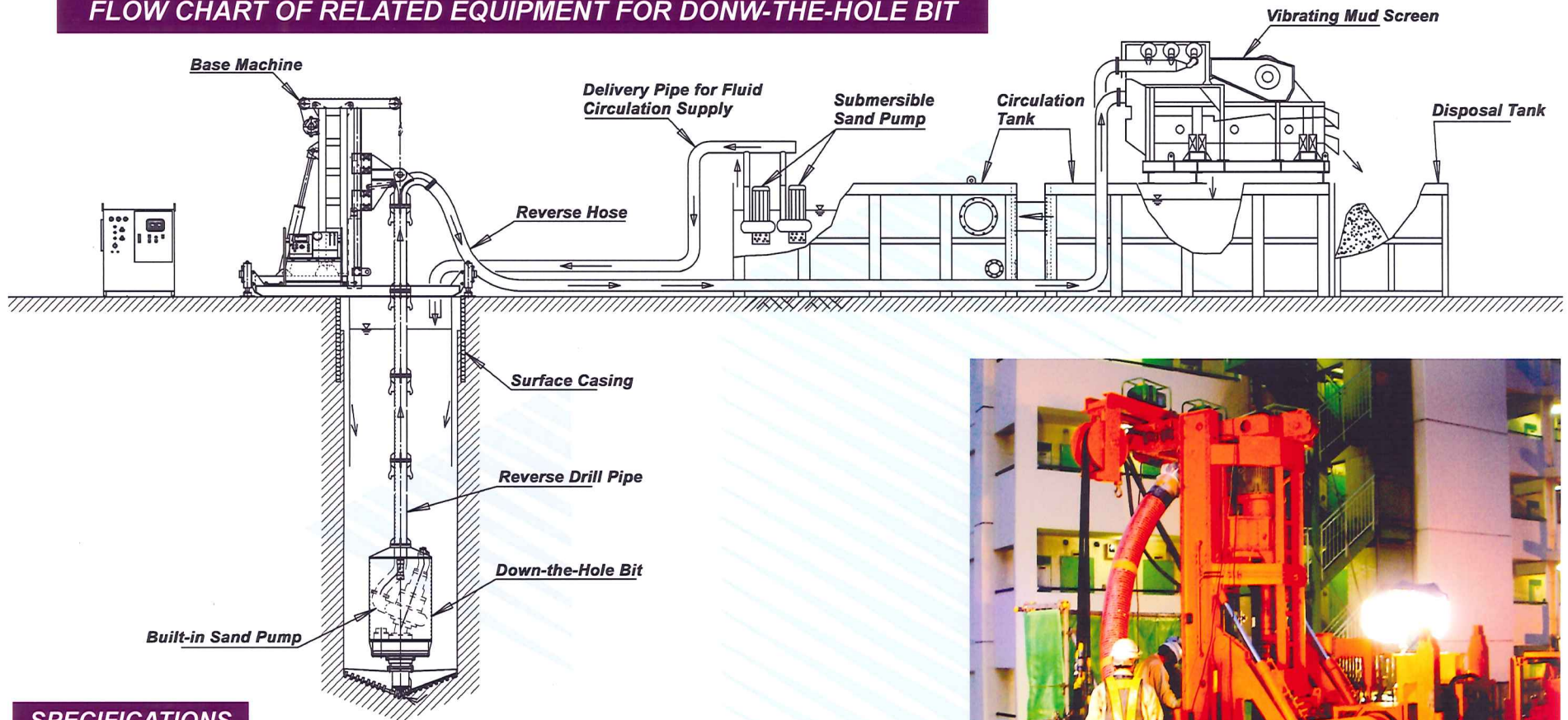
Photo shows Down-the-Hole Bit mounted on "MPD" base machine



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

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

## FLOW CHART OF RELATED EQUIPMENT FOR DONW-THE-HOLE BIT



### SPECIFICATIONS

Rotating unit	Drive type	Hydraulic motor drive
	Bit rotation speed ( $\text{min}^{-1}$ )	Low: 0 - 10 High: 0 - 20
	Torque (kN-m)	Low: 0 - 49 High: 0 - 24.5
	Inner diameter of swivel (mm)	200
Sand pump	Total dynamic head (m)	35
	Discharge volume ( $\text{m}^3/\text{min}$ )	8
	Max. passage size of cuttings (mm)	150
Required horse power (kW)		110
Weight (kg)		Approx. 3,000



Photo of job site operating Down-the-Hole Bit along with "TBH" base machine

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