



Impossible ? I'm possible !

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PROJECT LIST BOOK

TORREX
RCD RIGS
HAMMER GRAB

GEAR BOX
BLOCK LIFT
REDUCTION INSERT

CASING
CASING JOINT
DRILL TOOLS

TORREX - Pile driver

FOUNDATION DRILLING

TORREX is our new line-up equipment to work for Eco Pile method in Japan. Eco pile is to drive steel pile with helical blade up to dia. 350mm for ground foundation.

There is no need for soil cutting, water or air. The steel pipe itself is embedded under the ground so the advantage is no waste soil, low noise and eco-friendly.

TORREX speciality are :

- compact machine to work in urban area
- compact size but super high torque
- 100% radio-control system (without cabin)
- comprehensive drill data monitoring



TORREX is the first machine operated by 100% radio controller and this is very convenience for operator to serve safety area.

Compact size is going into the center of city and easy transportation. However, torque is as strong as upper class machine.

Tilting sensor detects machine overturning and pile driver automatically stopped when this is overturning too much.

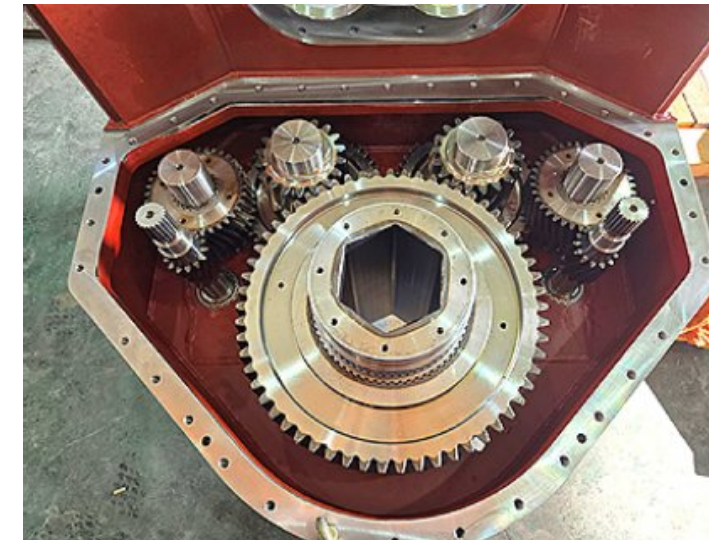
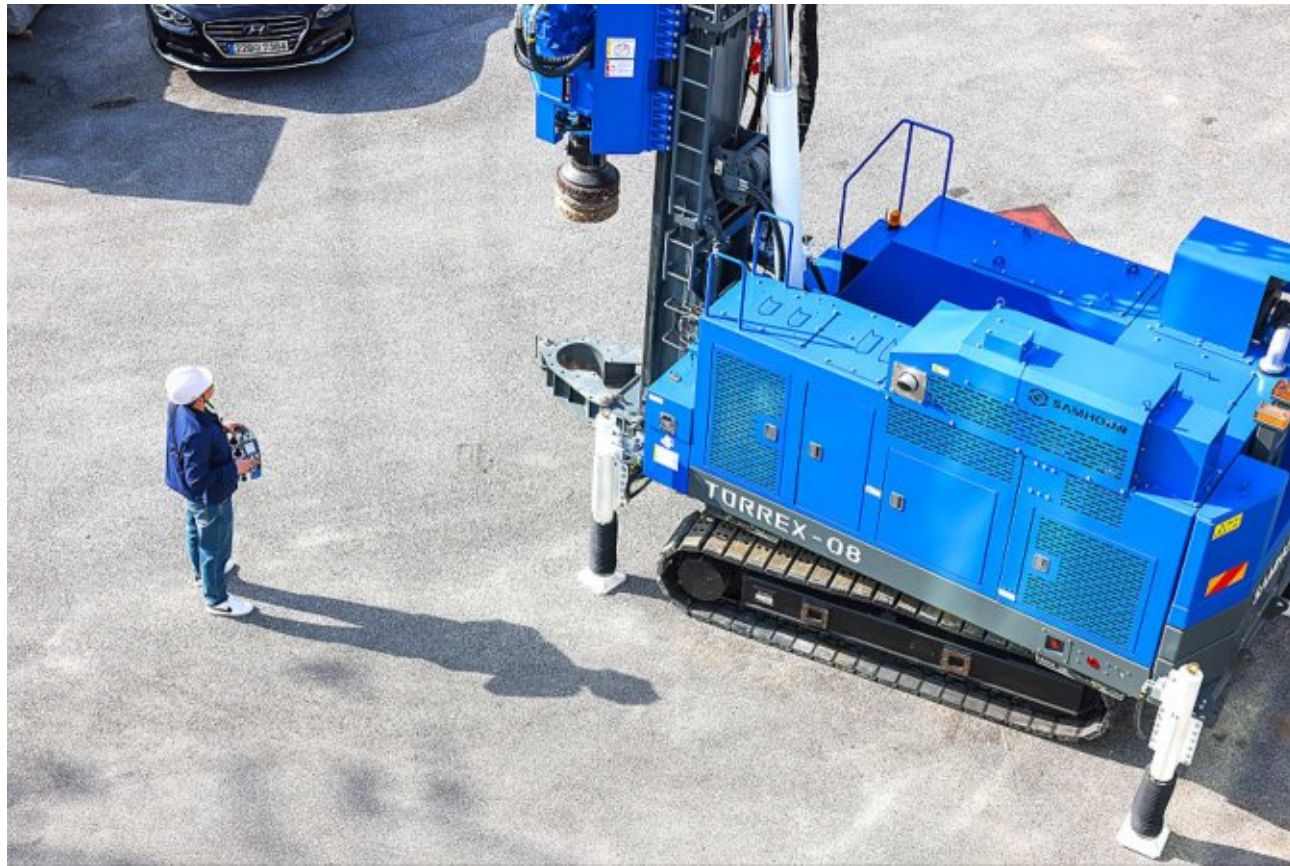
Sensors on backside read also unexpected risks and people and it keeps warning.



TORREX in Chiba, Japan

TORREX - Pile driver

FOUNDATION DRILLING



Innovative technology

Engineering and Fabrication

Concrete pile driller

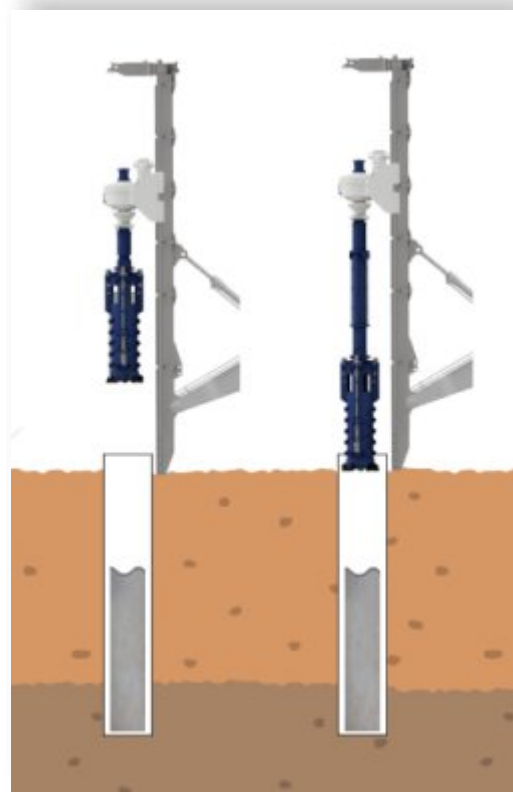
FOUNDATION DRILLING

Concrete pile drilling attachment is specially designed to remove old concrete pile by drilling and cutting it.

The equipment consists of main bucket and casing tubes to prevent hole-collapse. After casing tube is installed, you prepare for excavation by attaching a bucket equipped with a concrete cutter on auger drive.

The hydraulic power will be supplied from your pile driver. And drill bucket is rotating and drilling into the hole to cut off concrete pile.

After the first concrete is out an extension rod is installed to reach out the second concrete pile.



The concrete removal sequence is as described above, and the concrete is removed through repeated operations depending on the depth to be removed.

This equipment can cut out old pile without digging into the entire area. Saving time and cost for rebuilding project.

Concrete pile driller specialities are :

- No digging ground
- Fast working speed and saving cost
- Power source from excavator
- Quality drill teeth and cutter
- Customized design and size

Commissioning in Japan

Reverse Circulation Drilling rigs

FOUNDATION DRILLING

Reverse Circulation Drilling rigs(RCD) can be used for large variety of construction works. RCD with drilling string is installed on the top of casing first. The plenty of water and compressed air are supplied into the casing during RCD's drilling.

The cutted rocks lift up with water and air through the drill pipe and it also referred to as airlifting system.

RCD specialities are :

- Mixed soil layer, inclined rock and hard rock
- Large diameter from 0.8m to 5m (2.6ft to 16.4ft)
- Super deep foundation up to 200m
- Inclined drilling for anchor pipe



RCD monitoring system

SAMHOON RCD monitoring system support customer to optimize drilling performance and long life of roller cutters.

Our system continuously show the operator machine data on real-time, such as

- Full down force
- Drilling speed
- RPM
- Torque
- Circulation pump flow

It is automatically calculated maximum full down force based on the number of roller cutters. Operator can drill down at best force all the time.



3m RCD machine with drill string

Hydraulic equipment and others

FOUNDATION DRILLING

Block lifter for shipbuilding



Casing joint and tube



Gear box



Hydraulic equipment and others

FOUNDATION DRILLING

Reduction insert



Wheel sheave for grab



Casing funnel



PRD casing joint



RCD drill string



Water tank for RCD job

