

MANUAL INSTRUCTION

MAX *IMPACT POWER*

EXPANDING BOREHOLES

1. To achieve wider bore holes then machine diameter you need:

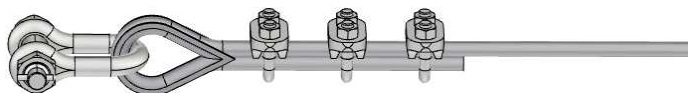
- mole



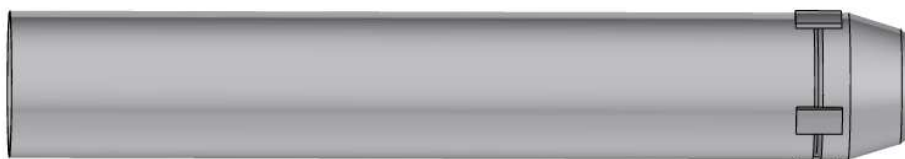
- tip towing



- towing device (shackle, winch)

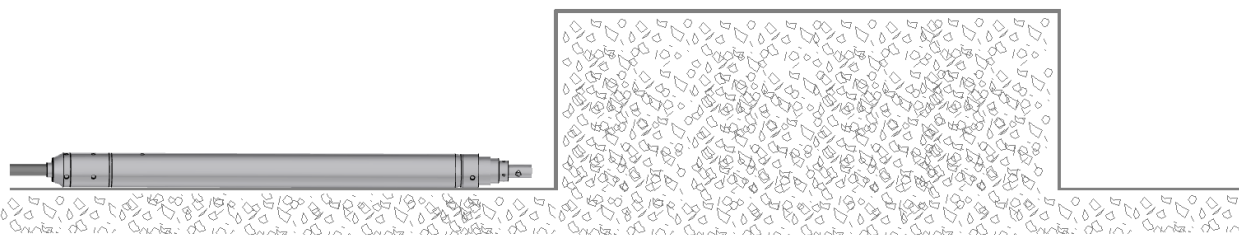


- expanding tool

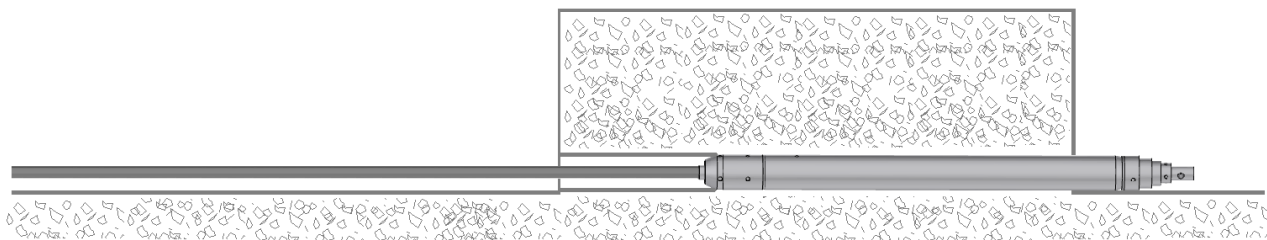


2. How to make a borehole by the means of expanding tool?

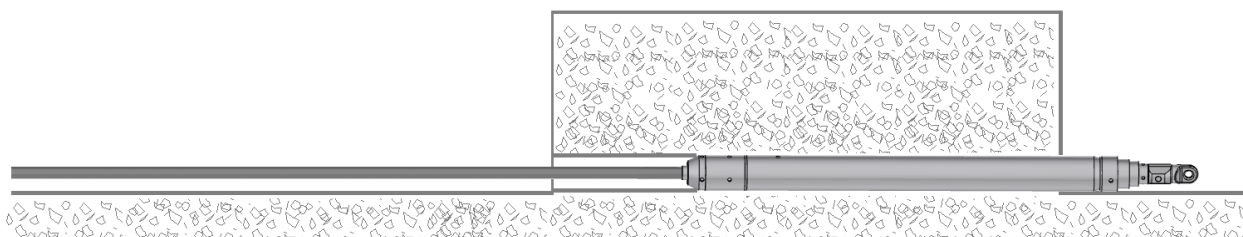
a) Place MAX mole in the start pit and align precisely to the planned target



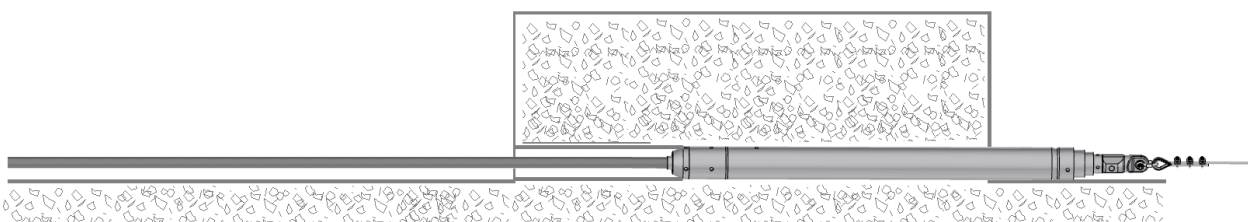
b) start the machine and make a borehole.



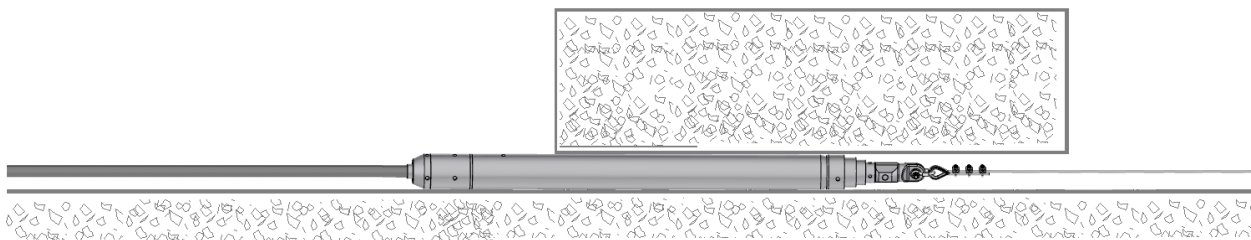
c) after achieving target pit install tip towing on machine's head



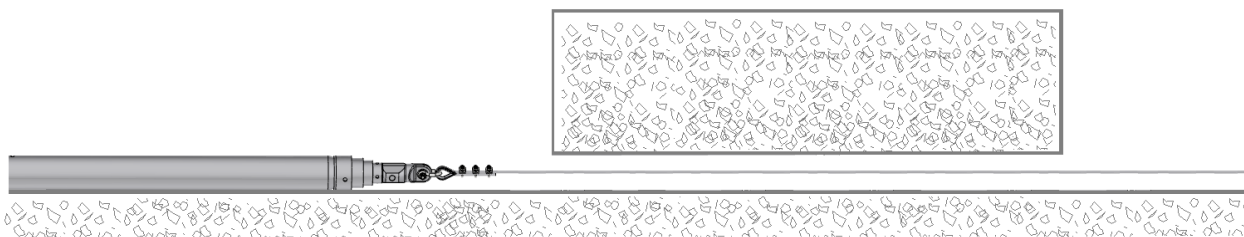
d) connect towing device (winch positioned in target pit) with tip towing on machine's head



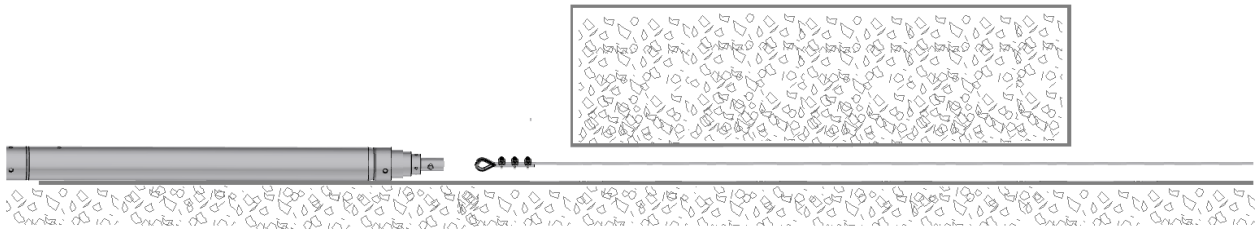
e) set revers (R) at the lubricator and start the machine in order to go back together with winch cable to the start pit



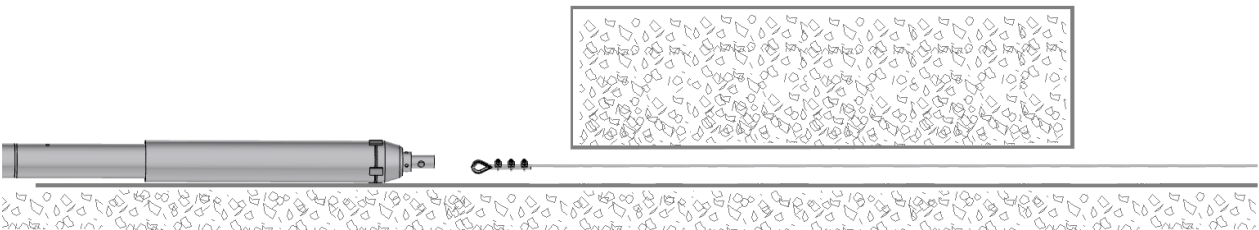
f) stop the machine in the start pit



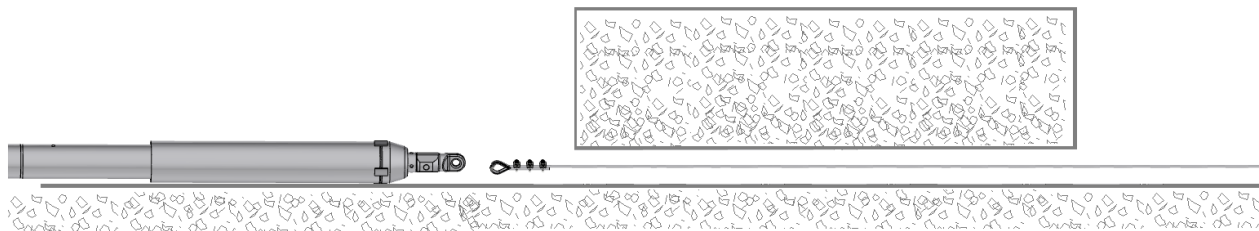
g) disconnect towing device (winch cable) from machine's head and remove tip towing



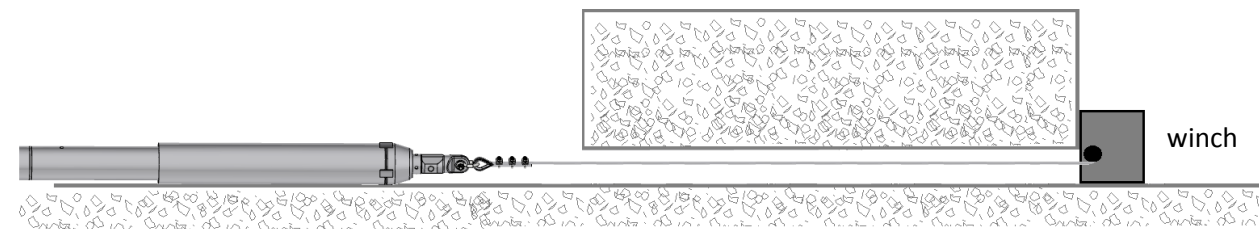
h) put expanding tool on MAX mole



i) install tip towing on the machine's head



j) connect towing device (winch cable) with tip towing on machine's head. Place the mole in a pre-made hole. Make a new bigger hole using expanding tool and winch.



Instead of winch you can use other towing device with pulling force not more then 1,5 tons. Winch has to ensure the connection between mole and expander only. Winch is nor destined to serve as expanding support.

In case of making additional boreholes with bigger diameter by the means of additional expanding tools please follow the same procedure by starting with c).