



**International No-Dig 2019
37th International Conference and Exhibition**



**Florence, Italy
30th September – 2nd October 2019**

**Paper Ref #
(the paper ref# will be supplied to authors)**

THE ROLE OF TORQUE IN THE REAMING PROCESS IN HDD APPLICATIONS

Renzo Chirulli¹ and René Albert²

¹ Applications Specialist – Pipeline, Vermeer EMEA, The Netherlands

² Senior Applications Engineer – Specialty Excavation, Vermeer EMEA, The Netherlands

ABSTRACT

Horizontal directional drills are traditionally classified on the basis of the maximum pullback force they can deliver. Nevertheless, during the reaming process the pullback force is just one of the operational parameters that plays a role in the borehole making. A simplified mathematical approach shows the role and the importance of torque in the borehole-making process.