

NYC Subway Tunnel Project

NEW YORK CITY, NY, UNITED STATES

APPLICATION	Simultaneous Drilling & Casing of 260 Support Piles
LOCATION	New York City, NY, United States
HAMMER	Champion 180
BIT	Conventional Bits
HOLE SIZE	24 inches (610 mm)
DEPTH OR LENGTH	39 to 48 feet (11.9 - 14.6 m)
FORMATION	Concrete, sand, boulders, cobbles, brick and wood
RIG TYPE	Foremost Dual Rotary DR24

In order to survive on the mean streets of New York City, you have to be strong, powerful and fast. As a seasoned veteran of the BIG city, Ziegenfuss Drilling Company knows what it takes to succeed in this difficult environment.

The 63rd Street Subway Tunnel Project in New York City proved that only the tough survive. The drilling involved putting down 260 caissons to support a new subway tunnel that will house an additional two tracks. Drilling just inches from “live” rails, the project needed to be completed quickly and without incident.

Upon being awarded the drilling contract, Ziegenfuss Drilling knew a champion was needed in order to complete the project. There was only one hammer tough enough to handle the job, the Numa Champion 180 down hole hammer.

A Foremost DR24 drill rig operated the Champion 180 down hole hammer with a 22-1/2" (572 mm) bit at 150 psi (10.2 bar) of air and 2000 cfm (944 l/sec). Placed inside 24" (610 mm) casing with Foremost's patented casing shoe attached to the bottom, the C180 hammer easily drilled down 39 – 48 feet (12-15 m) through very unconsolidated formations consisting of concrete, sand, boulders, cobbles, brick and wood – nothing could stand in the Champion's way! The New York City streets are tough, but as Ziegenfuss Drilling proved, not too tough for Numa's fast, strong and powerful Champion 180 down hole hammer.