## U T E X

## SMOOTHDRILL® PRODUCTS



## Increase <br> productivity while protecting equipment

## Features

## Benefits

| Safety | Modular construction <br>  <br> Replaceable wear items <br> Less handling |
| :--- | :--- |
|  | No welding |



| Model Size | Load Range (Pu | Clearance Diameter | Shoulder to Shoulder Length | Assembly Weight |
| :---: | :---: | :---: | :---: | :---: |
| 28" | Up to 150,000 lbs. | 34 " | 36 " | 2,300 lbs. |
| 22" | Up to 90,000 lbs. | 27" | 30" | 1,275 lbs. |
| 18" | Up to 75,000 lbs. | 22" | 28" | 835 lbs . |
| 14" | Up to 60,000 lbs. | 20" | 28 " | 650 lbs . |

## Effectiveness of SmoothDrill® in

 Blasthole DrillingA field study was conducted by an independent geotechnical and materials engineering company using an accelerometer to evaluate SmoothDrill@ effectiveness. The actual charts to the right show results from a blasthole drill equipped with a SmoothDrill® and one with a standard coupling.

Testing conditions were identical: Pulldown was 85,000 lbs., rotary speed was 90 rpm and average penetration rate was 0.80 ft./min.

The upper vibrograph represents vibrations at the drill head without SmoothDrill® and the lower vibrograph represents the vibrations with SmoothDrille.

The third chart reveals a summary comparison of the 2 vibrographs.


Aspect
Without SmoothDrill ®
With SmoothDrill ®

X Axis Average Acceleration
X Axis Peak Acceleration
Y Axis Average Acceleration
Y Axis Peak Acceleration
Z Axis Average Acceleration
Z Axis Peak Acceleration
Reduction of Vibrations in $X$ Axis Reduction of Vibrations in $Y$ Axis Reduction of Vibrations in $Z$ Axis

98
$12 g$
$5 g$
9g
12g
22g
$(9 g-5.5 g) / 9 g=39 \%$
$(5 g-4 . g g) / 5 g=10 \%$
$(12 g-2.5 g) / 12 g=79 \%$
5.5g

9g
4.5 g

11g
2.5 g

11g

