

CADEX

THE SPECIALIST 

FORMULAS FOR CALCULATION

$$V_{(th)} = \sqrt{2gH}$$

$$H = \frac{V^2}{2g}$$

$$E = mgH$$

$$e = \frac{mV^2}{2}$$

$$v = \frac{d}{t}$$

$$F = ma$$

$$\text{System friction (\%)} = \frac{V_{(th)} - V_{(pr)}}{V_{(th)}}$$

RESPECTIVELY WHERE:

a = acceleration (m/sec²)

H = drop height (m)

e = energy (joules)

V_(pr) = practical velocity (m/sec)

m = mass (kg)

V_(th) = theoretical velocity (m/sec)

F = force (Newton)

d = distance (mm)

g = 9.8068 m/sec²

t = time (millisecond)

(universal gravity constant)

