鑽削計算
Drilling Calculation Formulas

1) 切削速度和回轉速度
   Cutting Speed and running speed

$$V = \frac{\pi D N}{1000}$$

V: 切削速度 (m / min)
Cutting speed
以鑽頭圓周速度表示
expressed by circumference speed of drill.

D: 鑽頭直徑 (mm)
Diameter of drill

N: 回轉速 (R.P.M)
Running speed

$$N = \frac{1000V}{\pi D}$$

2) 進刀速度和進刀力量
   Feed speed and feed amount

$$F = N * f$$

F: 進刀速度 (mm / min)
Feed Speed

f : 進刀量 (mm / rev)
Feed amount

$$f = \frac{F}{N}$$

3) 鑽孔時間
   Drilling time

$$T = \frac{L}{N^f} = \frac{\pi DL}{1000 V^f}$$

T : 鑽孔時間（min)
Drilling time
L: 鑽孔深度（mm)
Drilling depth