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Formulas - Oil Careers | Petroleum Engineering

Drilling Formula Calculator - Carbide Depot

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Tool life calculation - theoretical example: $D = 20$ mm, $v = 200$ m/min, $n = 3184$ rpm, $f = 0.20$ mm/r, hole depth = 50 mm TL (meters): 15 meters TL (No. of holes): $15 \times 1000/50 = 300$ holes TL (min): $15 \times 1000/v = 15 \times 1000/(f \times n) = 15 \times 1000 / (0.20 \times 3184) = 23$ min

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Formulas And Calculations For Drilling

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Formulas and Calculations for Drilling Operations

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What is the drilling time required for drilling a 30mm length hole in alloy steel (JIS SCM440) at a cutting speed of 50m/min and a feed 0.15mm/rev ? [Answer] $n = \frac{50 \times 1000}{15 \times 3.14} = 1061.57 \text{ min}^{-1}$ $T_c = \frac{30 \times 1}{1061.57 \times 0.15} = 0.188 = 0.188 \times 60 = 11.3 \text{ sec}$

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