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

Drilling formulas and definitions

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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□ $n = \frac{50 \times 1000}{15 \times 3.14} = 1061.57 \text{ m in}^{-1}$
 $T_c = \frac{30 \times 1}{1061.57 \times 0.15} = 0.188 = 0.188 \times 60 = 11.3 \text{ sec}$

Formula for Drilling | MITSUBISHI MATERIALS CORPORATION

Formulas and Calculations 8

Formula 2 PO, gpm = $[3 (7.2 \times 0.7854) S] 0.00411 \times \text{SPM}$ where D = liner diameter, in. S = stroke length, in. SPM = strokes per minute Example: Determine the pump output, gpm, for a 7-in, by 12-in, triplex pump at 80 strokes per minute: PO, gpm = $[3 (7.2 \times 0.7854) 12] 0.00411 \times 80$ PO,

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calculates automatically for
surface feet per minute (SFM),
revolutions per minute (RPM),
inches per revolution feed rates,
inches per tooth feed rates,
inches per minute feed rates, and
cubic inches per minute metal
removal rates Drilling Formula
Interactive Calculator

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This term is very important
figures which is necessary to be
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Virtually all the mathematics
required out on the drilling rig is
here in one convenient source,
including formulas for pressure
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output, annular velocity,
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Calculations sometimes have
constants, numbers that you will
need to remember. The constant
for this formula is 1029.4 to find
the capacity of a given Diameter,
remember it. We don't need to go
into too much detail at this point,
but what the 1029.4 does, is
converts square inch into bbl/ft.

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Drilling Speed and Feed

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Calculator Determine the spindle speed (RPM) and feed rate (IPM) for a drilling operation, as well as the cut time for a given cut length. Drilling operations are those in which a cutting tool with sharp teeth, such as a twist drill, rotates and feeds into the workpiece axially, forming a hole with a diameter equal to ...

Drilling Speed and Feed Calculator - CustomPart.Net
All formulas and calculations are presented in easy-to-use, step-by-step order, virtually all the mathematics required out on the drilling rig is here in one convenient source, including formulas...

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