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2. Calculation of cutting speed- Drilling

You are drilling at a drill press with a twist drill \varnothing 8mm and a rotational speed of 800 min^{-1}

Calculate the cutting velocity V_c

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Solution:

drill \varnothing 8mm

rotational speed $n = 800 \text{ min}^{-1}$

TB Pg 340 $n = V_c / (\pi * d)$

$$\begin{aligned} \Rightarrow V_c &= n * \pi * d = 800 \text{ min}^{-1} * \pi * 8 \text{ mm} \\ &= 20106.2 \text{ mm/min} = 20.1 \text{ m/min} \end{aligned}$$