# Machining Time Calculation

Sample document - numeric values are only included in the purchased Pro export.

Project: _____ Part/Position: _____ Prepared by: _____

## Inputs

| | |
|---|---|
| Method | ? ? ? |
| Diameter d | ? ? ? mm |
| Turning length l | ? ? ? mm |
| Cutting speed vc (given) | ? ? ? m/min |
| Feed f | ? ? ? mm |
| Approach l_a | ? ? ? mm |
| Overtravel l_u | ? ? ? mm |
| Number of cuts i | ? ? ? |

## Result

| | |
|---|---|
| Speed n | ? ? ? 1/min |
| Cutting speed vc | ? ? ? m/min |
| Total feed travel L | ? ? ? mm |
| Machining time t_h | ? ? ? |

## Notes and calculation basis

Machining time t_h (pure cutting time) for turning, milling and drilling per the standard machining-technology formulas: speed/cutting speed n = 1000·vc/(pi·d), total feed travel L from the working length plus approach/overtravel or approach allowance (drilling: l_s = ? ? ?·d at a ? ? ?° point angle), machining time from travel, feed and speed or feed rate. Simplification: pure cutting time without non-productive time (tool change, positioning, clamping, measuring).