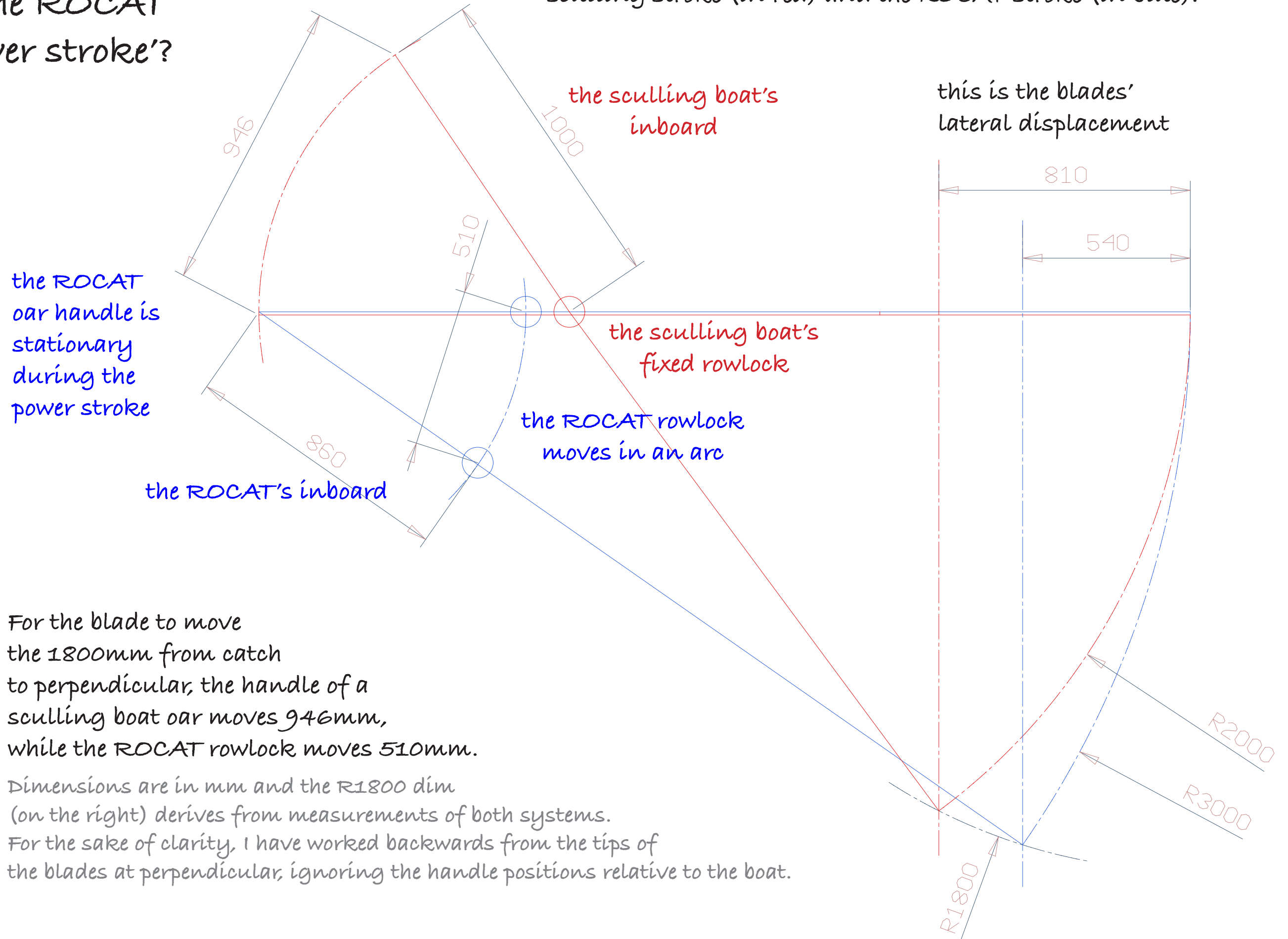


How high-gearred is the ROCAT 'power stroke'?

This drawing shows the 'power stroke' - catch to perpendicular - of a regular sculling stroke (in red) and the ROCAT stroke (in blue).



For the blade to move the 1800mm from catch to perpendicular, the handle of a sculling boat oar moves 946mm, while the ROCAT rowlock moves 510mm.

Dimensions are in mm and the R1800 dim (on the right) derives from measurements of both systems. For the sake of clarity, I have worked backwards from the tips of the blades at perpendicular, ignoring the handle positions relative to the boat.