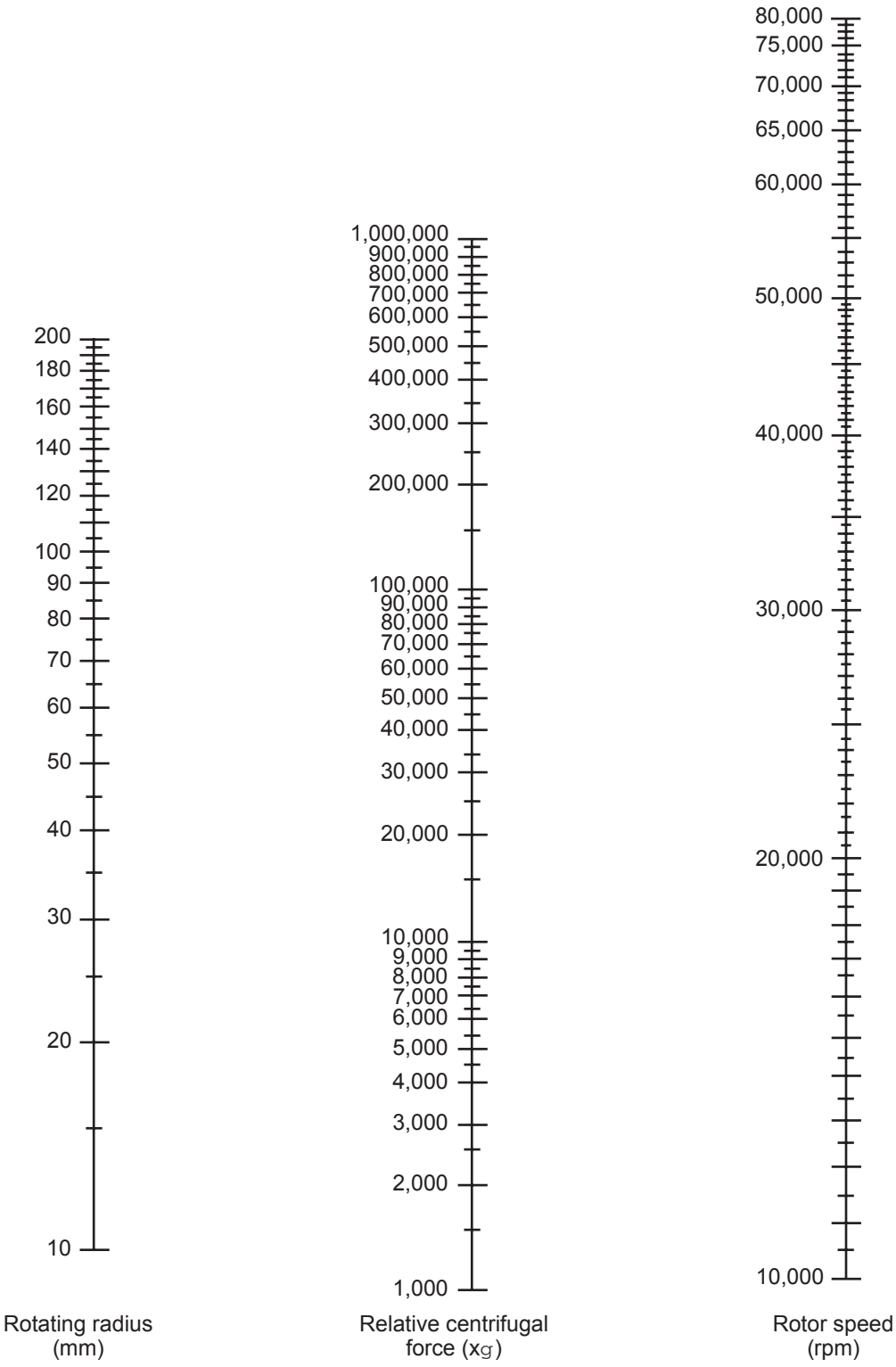
HYPERMOL

N O M O G R A M

Conversion of relative centrifugal force to rotor speed in high-speed centrifuges



Centrifugation defines a relative centrifugal force (=RCF - measured in × g), corresponding to a speed (in rpm) for a particular centrifuge and a particular rotor. In many cases this nomogram substitutes for the equation:
RCF = 1.12*r* (rpm/1000)^2, where *r* defines the rotating radius between the particles beeing centrifuged and the axis of rotation. The nomogram can be used to determine the RCF if speed and rmax are given, or to determine the speed if RCF and rmax are given, by aligning a ruler across the two known values. Either the RCF value or the speed can be read at the point where the ruler crosses the residual column.

CAUTION: Never exceed maximum rotor speed! Only use high-speed centrifuges after a thourough introduction into handling, cleaning and maintaining the instrument, the rotors and tubes.