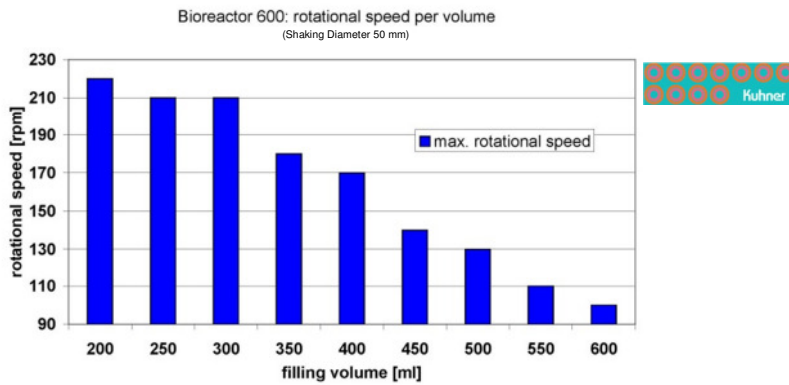




87600, TubeSpin® Bioreactor 600



Our „Shaking Technology“ partner Kühner AG, evaluated the following maximal rotational speed limits for the various filling volumes of the TubeSpin® Bioreactor 600 (# 87600):

Speed rpm Shaking diameter 50 mm	110	130	150	200
Volume ml	< 550 – 600	450 - 500	350 - 400	300 - 200

Media volumes up to 400 ml can be shaken up to 170 - 200 rpm. At this shaking speed, a large enough surface is generated to enable the gas exchange into the medium. With larger volumes – and thereby lower revolutions – the surface as well as the mixing of the medium decreases, and an optimal gas exchange then can not be expected.

Our recommendation:

Maximal usable volume of the TubeSpin® Bioreactor 600 for cultivation of suspension cells = 400 ml