Supporting Information for the article:

# Curvature induces and enhances transport of spinning colloids through narrow channels

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## Supporting Videos.

**Movie S1**(.AVI): real time video showing the dynamics of single paramagnetic colloidal particles with radius $a$ = 1.4 μm and spinning within a sequence of circular rings having width 3 μm and separated by a distance of 10 μm. The external precessing magnetic field is characterized by an amplitude $H_0$ = 900A m$^{-1}$, driving frequency $f$ = 50Hz and a cone angle θ = 44.5 degrees. The video corresponds to Figure 1(a) of the article.

**Movie S2**(.AVI): real time video showing the dynamics of many paramagnetic colloidal particles with radius $a$ = 1.4 μm and spinning within a sequence of circular rings having width 3 μm and separated by a distance of 10 μm. The external precessing magnetic field is characterized by an amplitude $H_0$ = 900Am$^{-1}$, driving frequency $f$ = 50Hz and a cone angle θ = 44.5 degrees. The video corresponds to the situation described in Figures 4 of the article.