

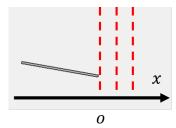
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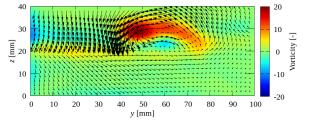


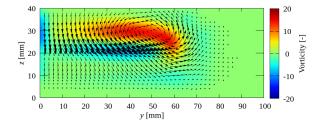
Table

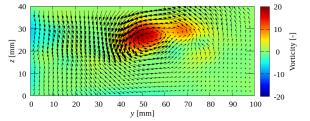
x = 1

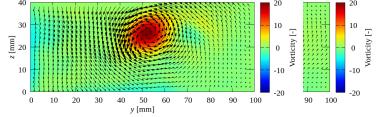
 $\begin{array}{ccc} \text{Application} & \text{paperFOAM} \\ \text{Solver} & \text{pimpleFoam} \\ \text{Turbulence model} & k-\omega \text{ SST} \\ \text{Time step} & 1/800 \text{ s} \\ \text{Simulation time} & 7.5 \text{ s} \\ \end{array}$ 

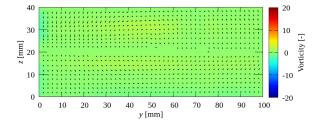




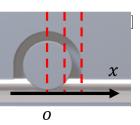


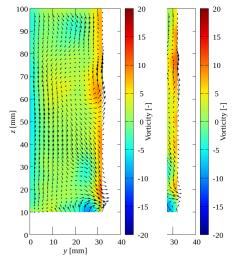


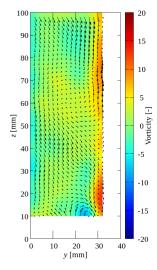




x = mm







F.0.			
50×			

with rolling x = 10,22254.7with rolling x = 2023130.8with rolling x = 4021027.3without rolling x = 0.24264.7without rolling x = 2024717.1without rolling x = 4023543.5