

Tabla Resumen — Estudio de Convergencia de Malla: Boulder BLIR3 ($d_{eq} = 10.0$ cm, RTX 5090)

dp [m]	N_{part}	Part. en d_{min}	Desplaz. [m]	$\Delta\%$	Rot. [grados]	F_{SPH} [N]	F_{cont} [N]	Tiempo [min]	Estado
0.020	209K	2.0	3.495	—	95.8	166.4	2254	13.2	SUB-RESUELTO
0.015	496K	2.7	3.433	1.8%	97.2	77.0	4915	11.7	SUB-RESUELTO
0.010	1.7M	4.0	3.069	10.6%	60.3	45.3	131	23.7	MARGINAL
0.008	3.3M	5.0	2.408	21.5%	87.2	34.9	3229	30.3	MARGINAL
0.005	13.4M	8.0	1.725	28.4%	86.8	23.0	3083	117.8	TRANSICIÓN
0.004	26.1M	10.0	1.615	6.4%	84.8	22.8	359	260.1	ADECUADO
0.003	62.0M	13.3	1.552	3.9%	90.2	22.2	450	812.1	ADECUADO