

TABLE: Joint Displacements									
Joint	OutputCase	CaseType	StepType	U1	U2	U3	R1	R2	R3
Text	Text	Text	Text	m	m	m	Radians	Radians	Radians
140	Tren A10	LinDirHis	Max	0	0	7.164E-12	0.000006397	0.000024	0
140	Tren A10	LinDirHis	Min	0	0	-0.000309	-0.000002971	-7.539E-13	0
229	Tren A10	LinDirHis	Max	0	0	7.472E-12	2.425E-08	1.332E-13	0
229	Tren A10	LinDirHis	Min	0	0	-0.000268	-0.000071	-0.000023	0
230	Tren A10	LinDirHis	Max	0	0	1.057E-13	3.213E-07	6.842E-12	0
230	Tren A10	LinDirHis	Min	0	0	-0.000278	-0.000035	-0.00002	0
231	Tren A10	LinDirHis	Max	0	0	5.63E-13	7.202E-13	0.000021	0
231	Tren A10	LinDirHis	Min	0	0	-0.000223	-0.000093	-0.000011	0
232	Tren A10	LinDirHis	Max	0	0	0.000002483	7.633E-13	0.000051	0
232	Tren A10	LinDirHis	Min	0	0	-0.000377	-0.000108	-0.000004861	0
233	Tren A10	LinDirHis	Max	0	0	0.000005083	7.334E-13	0.000024	0
233	Tren A10	LinDirHis	Min	0	0	-0.000496	-0.000141	-0.000007931	0
234	Tren A10	LinDirHis	Max	0	0	0.000001568	3.693E-07	0.000052	0
234	Tren A10	LinDirHis	Min	0	0	-0.00056	-0.000185	-0.000011	0
235	Tren A10	LinDirHis	Max	0	0	7.648E-07	2.462E-07	0.00007	0
235	Tren A10	LinDirHis	Min	0	0	-0.000786	-0.000189	-0.000008947	0
236	Tren A10	LinDirHis	Max	0	0	0.000002185	9.671E-08	0.000053	0
236	Tren A10	LinDirHis	Min	0	0	-0.000959	-0.000215	-0.000016	0
237	Tren A10	LinDirHis	Max	0	0	0.000001499	2.928E-07	0.000076	0
237	Tren A10	LinDirHis	Min	0	0	-0.001123	-0.00024	-0.000018	0
238	Tren A10	LinDirHis	Max	0	0	0.000001249	2.841E-07	0.00008	0
238	Tren A10	LinDirHis	Min	0	0	-0.001376	-0.000237	-0.000019	0
239	Tren A10	LinDirHis	Max	0	0	0.00000264	2.074E-07	0.000073	0
239	Tren A10	LinDirHis	Min	0	0	-0.001577	-0.000255	-0.000027	0
240	Tren A10	LinDirHis	Max	0	0	0.000002222	3.567E-07	0.000089	0
240	Tren A10	LinDirHis	Min	0	0	-0.001789	-0.000263	-0.00003	0
241	Tren A10	LinDirHis	Max	0	0	0.00000247	3.825E-07	0.000088	0
241	Tren A10	LinDirHis	Min	0	0	-0.00204	-0.000257	-0.000032	0
242	Tren A10	LinDirHis	Max	0	0	0.000003727	3.392E-07	0.000087	0
242	Tren A10	LinDirHis	Min	0	0	-0.002263	-0.000261	-0.000039	0
244	Tren A10	LinDirHis	Max	0	0	0.000004348	4.582E-07	0.000093	0
244	Tren A10	LinDirHis	Min	0	0	-0.002724	-0.000245	-0.000047	0
245	Tren A10	LinDirHis	Max	0	0	0.000005375	4.314E-07	0.000094	0
245	Tren A10	LinDirHis	Min	0	0	-0.002937	-0.000239	-0.000054	0
246	Tren A10	LinDirHis	Max	0	0	0.000005658	5.035E-07	0.000095	0
246	Tren A10	LinDirHis	Min	0	0	-0.003152	-0.000225	-0.000059	0
247	Tren A10	LinDirHis	Max	0	0	0.000006437	4.755E-07	0.000092	0
247	Tren A10	LinDirHis	Min	0	0	-0.003359	-0.000207	-0.000067	0
248	Tren A10	LinDirHis	Max	0	0	0.000007579	4.366E-07	0.000094	0
248	Tren A10	LinDirHis	Min	0	0	-0.003551	-0.000193	-0.000075	0
249	Tren A10	LinDirHis	Max	0	0	0.000008636	4.667E-07	0.000092	0
249	Tren A10	LinDirHis	Min	0	0	-0.00373	-0.000171	-0.000082	0
250	Tren A10	LinDirHis	Max	0	0	0.00001	4.428E-07	0.000088	0
250	Tren A10	LinDirHis	Min	0	0	-0.003889	-0.00015	-0.000088	0
251	Tren A10	LinDirHis	Max	0	0	0.000012	4.337E-07	0.000083	0
251	Tren A10	LinDirHis	Min	0	0	-0.004025	-0.000128	-0.000094	0
252	Tren A10	LinDirHis	Max	0	0	0.000014	4.347E-07	0.000078	0

252	Tren A10	LinDirHis	Min	0	0	-0.004139	-0.000102	-0.000099	0
253	Tren A10	LinDirHis	Max	0	0	0.000015	3.795E-07	0.000073	0
253	Tren A10	LinDirHis	Min	0	0	-0.004226	-0.000076	-0.000104	0
254	Tren A10	LinDirHis	Max	0	0	0.000016	3.261E-07	0.000065	0
254	Tren A10	LinDirHis	Min	0	0	-0.004284	-0.00005	-0.000108	0
255	Tren A10	LinDirHis	Max	0	0	0.000017	2.707E-07	0.000059	0
255	Tren A10	LinDirHis	Min	0	0	-0.004311	-0.000026	-0.000112	0
256	Tren A10	LinDirHis	Max	0	0	0.000017	0.000017	0.000052	0
256	Tren A10	LinDirHis	Min	0	0	-0.004314	-0.00001	-0.000114	0
257	Tren A10	LinDirHis	Max	0	0	0.000018	0.000044	0.000045	0
257	Tren A10	LinDirHis	Min	0	0	-0.004287	-0.000005538	-0.000117	0
258	Tren A10	LinDirHis	Max	0	0	0.000017	0.000071	0.000037	0
258	Tren A10	LinDirHis	Min	0	0	-0.00423	-0.000003354	-0.000119	0
259	Tren A10	LinDirHis	Max	0	0	0.000017	0.000099	0.000029	0
259	Tren A10	LinDirHis	Min	0	0	-0.004147	-0.000002186	-0.000122	0
260	Tren A10	LinDirHis	Max	0	0	0.000017	0.000125	0.000021	0
260	Tren A10	LinDirHis	Min	0	0	-0.004035	-0.000001476	-0.000124	0
261	Tren A10	LinDirHis	Max	0	0	0.000016	0.00015	0.000012	0
261	Tren A10	LinDirHis	Min	0	0	-0.003892	-0.000001248	-0.000126	0
262	Tren A10	LinDirHis	Max	0	0	0.000015	0.000175	0.000003173	0
262	Tren A10	LinDirHis	Min	0	0	-0.003716	-0.000001161	-0.000127	0
263	Tren A10	LinDirHis	Max	0	0	0.000014	0.000196	0.000001827	0
263	Tren A10	LinDirHis	Min	0	0	-0.003512	-0.000001162	-0.000123	0
264	Tren A10	LinDirHis	Max	0	0	0.000014	0.000215	0.000001673	0
264	Tren A10	LinDirHis	Min	0	0	-0.003283	-0.000001153	-0.000121	0
265	Tren A10	LinDirHis	Max	0	0	0.000012	0.000235	0.000001572	0
265	Tren A10	LinDirHis	Min	0	0	-0.003026	-0.000001197	-0.00012	0
266	Tren A10	LinDirHis	Max	0	0	0.00001	0.000245	0.000001429	0
266	Tren A10	LinDirHis	Min	0	0	-0.002765	-0.000001146	-0.000116	0
267	Tren A10	LinDirHis	Max	0	0	0.000009287	0.000252	0.000001188	0
267	Tren A10	LinDirHis	Min	0	0	-0.002488	-0.000001015	-0.000117	0
268	Tren A10	LinDirHis	Max	0	0	0.000008099	0.000263	0.000001174	0
268	Tren A10	LinDirHis	Min	0	0	-0.002183	-0.000001112	-0.000113	0
269	Tren A10	LinDirHis	Max	0	0	0.000006973	0.000257	0.000001003	0
269	Tren A10	LinDirHis	Min	0	0	-0.001907	-0.000001089	-0.000101	0
270	Tren A10	LinDirHis	Max	0	0	0.000006715	0.00025	8.912E-07	0
270	Tren A10	LinDirHis	Min	0	0	-0.001613	-9.658E-07	-0.000105	0
271	Tren A10	LinDirHis	Max	0	0	0.00000529	0.000249	0.000000935	0
271	Tren A10	LinDirHis	Min	0	0	-0.001302	-0.00000108	-0.000092	0
272	Tren A10	LinDirHis	Max	0	0	0.000004133	0.000219	6.804E-07	0
272	Tren A10	LinDirHis	Min	0	0	-0.001074	-9.818E-07	-0.000075	0
273	Tren A10	LinDirHis	Max	0	0	0.000003962	0.000197	5.866E-07	0
273	Tren A10	LinDirHis	Min	0	0	-0.000808	-8.143E-07	-0.000083	0
274	Tren A10	LinDirHis	Max	0	0	0.000002313	0.000176	7.048E-07	0
274	Tren A10	LinDirHis	Min	0	0	-0.000563	-9.042E-07	-0.000052	0
275	Tren A10	LinDirHis	Max	0	0	0.000002981	0.000113	2.889E-07	0
275	Tren A10	LinDirHis	Min	0	0	-0.000468	-7.345E-07	-0.000038	0
276	Tren A10	LinDirHis	Max	0	0	0.000002907	0.000074	7.841E-07	0
276	Tren A10	LinDirHis	Min	0	0	-0.000263	-5.413E-07	-0.000061	0
277	Tren A10	LinDirHis	Max	0	0	0.000004527	0.000027	0.000011	0

277	Tren A10	LinDirHis	Min	0	0	-0.000102	-6.157E-07	-0.000011	0
278	Tren A10	LinDirHis	Max	0	0	0.000001091	0.000036	5.377E-07	0
278	Tren A10	LinDirHis	Min	0	0	-0.0001	-5.991E-07	-0.00004	0
279	Tren A10	LinDirHis	Max	0	0	1.123E-12	0.000002828	0.000092	0
279	Tren A10	LinDirHis	Min	0	0	-0.000147	-1.94E-13	-0.000001524	0
280	Tren A10	LinDirHis	Max	0	0	7.748E-08	8.417E-13	0.000053	0
280	Tren A10	LinDirHis	Min	0	0	-0.000309	-0.000103	-0.000005404	0
283	Tren A10	LinDirHis	Max	0	0	0.000005167	6.583E-13	0.000039	0
283	Tren A10	LinDirHis	Min	0	0	-0.000474	-0.000124	-0.000002908	0
347	Tren A10	LinDirHis	Max	0	0	0.000003468	1.181E-07	0.000024	0
347	Tren A10	LinDirHis	Min	0	0	-0.000535	-0.000171	-0.000011	0
378	Tren A10	LinDirHis	Max	0	0	3.515E-07	3.608E-07	0.000076	0
378	Tren A10	LinDirHis	Min	0	0	-0.000679	-0.000192	-0.000007779	0
379	Tren A10	LinDirHis	Max	0	0	0.000002116	1.353E-07	0.000058	0
379	Tren A10	LinDirHis	Min	0	0	-0.000898	-0.000205	-0.000009812	0
380	Tren A10	LinDirHis	Max	0	0	0.000001923	1.905E-07	0.00006	0
380	Tren A10	LinDirHis	Min	0	0	-0.001044	-0.000236	-0.000017	0
381	Tren A10	LinDirHis	Max	0	0	9.992E-07	3.673E-07	0.000088	0
381	Tren A10	LinDirHis	Min	0	0	-0.001257	-0.000245	-0.000016	0
383	Tren A10	LinDirHis	Max	0	0	0.000001736	2.112E-07	0.000072	0
383	Tren A10	LinDirHis	Min	0	0	-0.001491	-0.000251	-0.000019	0
388	Tren A10	LinDirHis	Max	0	0	0.000002467	3.304E-07	0.00008	0
388	Tren A10	LinDirHis	Min	0	0	-0.001683	-0.000267	-0.000025	0
389	Tren A10	LinDirHis	Max	0	0	0.000002236	4.519E-07	0.00009	0
389	Tren A10	LinDirHis	Min	0	0	-0.00192	-0.000265	-0.000026	0
390	Tren A10	LinDirHis	Max	0	0	0.000002963	3.337E-07	0.000086	0
390	Tren A10	LinDirHis	Min	0	0	-0.002159	-0.000265	-0.000029	0
391	Tren A10	LinDirHis	Max	0	0	0.000003909	4.565E-07	0.000091	0
391	Tren A10	LinDirHis	Min	0	0	-0.00238	-0.000267	-0.000035	0
392	Tren A10	LinDirHis	Max	0	0	0.000004121	5.149E-07	0.000092	0
392	Tren A10	LinDirHis	Min	0	0	-0.002614	-0.000256	-0.000039	0
393	Tren A10	LinDirHis	Max	0	0	0.000004968	4.254E-07	0.000092	0
393	Tren A10	LinDirHis	Min	0	0	-0.002835	-0.000249	-0.000045	0
394	Tren A10	LinDirHis	Max	0	0	0.000005807	5.161E-07	0.000094	0
394	Tren A10	LinDirHis	Min	0	0	-0.003047	-0.00024	-0.000051	0
448	Tren A10	LinDirHis	Max	0	0	0.000006258	5.241E-07	0.000091	0
448	Tren A10	LinDirHis	Min	0	0	-0.00326	-0.000222	-0.000057	0
449	Tren A10	LinDirHis	Max	0	0	0.00000718	4.363E-07	0.00009	0
449	Tren A10	LinDirHis	Min	0	0	-0.003461	-0.000206	-0.000066	0
450	Tren A10	LinDirHis	Max	0	0	0.000008184	4.541E-07	0.00009	0
450	Tren A10	LinDirHis	Min	0	0	-0.003649	-0.000185	-0.000073	0
451	Tren A10	LinDirHis	Max	0	0	0.000009185	0.000000442	0.000087	0
451	Tren A10	LinDirHis	Min	0	0	-0.003822	-0.000162	-0.000079	0
452	Tren A10	LinDirHis	Max	0	0	0.000011	4.181E-07	0.000084	0
452	Tren A10	LinDirHis	Min	0	0	-0.003972	-0.00014	-0.000087	0
455	Tren A10	LinDirHis	Max	0	0	0.000012	4.406E-07	0.00008	0
455	Tren A10	LinDirHis	Min	0	0	-0.004099	-0.000116	-0.000094	0
516	Tren A10	LinDirHis	Max	0	0	0.000013	3.925E-07	0.000075	0
516	Tren A10	LinDirHis	Min	0	0	-0.004202	-0.000089	-0.0001	0
517	Tren A10	LinDirHis	Max	0	0	0.000015	3.216E-07	0.000068	0

517	Tren A10	LinDirHis	Min	0	0	-0.004277	-0.000063	-0.000106	0
518	Tren A10	LinDirHis	Max	0	0	0.000016	0.000000282	0.000061	0
518	Tren A10	LinDirHis	Min	0	0	-0.00432	-0.000038	-0.000111	0
519	Tren A10	LinDirHis	Max	0	0	0.000017	0.000004575	0.000056	0
519	Tren A10	LinDirHis	Min	0	0	-0.004335	-0.000017	-0.000113	0
527	Tren A10	LinDirHis	Max	0	0	0.000018	0.000031	0.000049	0
527	Tren A10	LinDirHis	Min	0	0	-0.004324	-0.000007078	-0.000117	0
528	Tren A10	LinDirHis	Max	0	0	0.000018	0.000058	0.00004	0
528	Tren A10	LinDirHis	Min	0	0	-0.004284	-0.000004323	-0.000119	0
529	Tren A10	LinDirHis	Max	0	0	0.000018	0.000086	0.000034	0
529	Tren A10	LinDirHis	Min	0	0	-0.004214	-0.000002828	-0.00012	0
531	Tren A10	LinDirHis	Max	0	0	0.000018	0.000114	0.000025	0
531	Tren A10	LinDirHis	Min	0	0	-0.004113	-0.000001888	-0.000122	0
532	Tren A10	LinDirHis	Max	0	0	0.000017	0.00014	0.000016	0
532	Tren A10	LinDirHis	Min	0	0	-0.003982	-0.000001364	-0.000122	0
533	Tren A10	LinDirHis	Max	0	0	0.000017	0.000165	0.000007565	0
533	Tren A10	LinDirHis	Min	0	0	-0.003821	-0.00000127	-0.000121	0
539	Tren A10	LinDirHis	Max	0	0	0.000016	0.00019	0.000001904	0
539	Tren A10	LinDirHis	Min	0	0	-0.003627	-0.000001318	-0.000122	0
540	Tren A10	LinDirHis	Max	0	0	0.000015	0.00021	0.000001791	0
540	Tren A10	LinDirHis	Min	0	0	-0.003409	-0.000001228	-0.00012	0
541	Tren A10	LinDirHis	Max	0	0	0.000014	0.000231	0.000001701	0
541	Tren A10	LinDirHis	Min	0	0	-0.003164	-0.000001234	-0.00012	0
542	Tren A10	LinDirHis	Max	0	0	0.000012	0.000246	0.000001642	0
542	Tren A10	LinDirHis	Min	0	0	-0.002902	-0.000001212	-0.000118	0
543	Tren A10	LinDirHis	Max	0	0	0.00001	0.000252	0.000001393	0
543	Tren A10	LinDirHis	Min	0	0	-0.002637	-0.000001049	-0.000113	0
544	Tren A10	LinDirHis	Max	0	0	0.000008938	0.000263	0.000001215	0
544	Tren A10	LinDirHis	Min	0	0	-0.002343	-0.000001004	-0.000114	0
545	Tren A10	LinDirHis	Max	0	0	0.000007389	0.000266	0.000001113	0
545	Tren A10	LinDirHis	Min	0	0	-0.002047	-0.000001087	-0.000102	0
546	Tren A10	LinDirHis	Max	0	0	0.000006368	0.000255	0.000000892	0
546	Tren A10	LinDirHis	Min	0	0	-0.001773	-9.901E-07	-0.000098	0
547	Tren A10	LinDirHis	Max	0	0	0.000005612	0.000255	8.383E-07	0
547	Tren A10	LinDirHis	Min	0	0	-0.001461	-9.788E-07	-0.0001	0
548	Tren A10	LinDirHis	Max	0	0	0.000004198	0.00024	7.427E-07	0
548	Tren A10	LinDirHis	Min	0	0	-0.001197	-0.000001059	-0.000072	0
549	Tren A10	LinDirHis	Max	0	0	0.000004599	0.00021	5.544E-07	0
549	Tren A10	LinDirHis	Min	0	0	-0.000963	-8.386E-07	-0.000075	0
550	Tren A10	LinDirHis	Max	0	0	0.000003652	0.000194	7.343E-07	0
550	Tren A10	LinDirHis	Min	0	0	-0.000685	-9.035E-07	-0.000071	0
551	Tren A10	LinDirHis	Max	0	0	0.000001958	0.00015	4.776E-07	0
551	Tren A10	LinDirHis	Min	0	0	-0.000533	-9.176E-07	-0.000026	0
552	Tren A10	LinDirHis	Max	0	0	0.000003997	0.000092	4.151E-07	0
552	Tren A10	LinDirHis	Min	0	0	-0.000397	-6.035E-07	-0.000058	0
553	Tren A10	LinDirHis	Max	0	0	0.00000138	0.000055	7.754E-07	0
553	Tren A10	LinDirHis	Min	0	0	-0.000188	-6.598E-07	-0.000042	0
556	Tren A10	LinDirHis	Max	0	0	2.916E-13	0.000005301	0.000103	0
556	Tren A10	LinDirHis	Min	0	0	-0.000173	-5.352E-13	-0.0000017	0
557	Tren A10	LinDirHis	Max	0	0	0.000003767	4.574E-07	0.000095	0

Apéndice F2				Flecha Dinámica Tren A10						V= 250 km/h
557	Tren A10	LinDirHis	Min	0	0	-0.002493	-0.000256	-0.000042	0	