

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 A7	LinDirHis	Max	0	0	1.793E-11	0.000003169	0.000022	0
140	Tren A7	LinDirHis	Min	0	0	-0.000253	-0.000001866	-5.983E-13	0
229	Tren A7	LinDirHis	Max	0	0	1.553E-12	2.194E-08	3.301E-12	0
229	Tren A7	LinDirHis	Min	0	0	-0.000231	-0.000062	-0.000021	0
230	Tren A7	LinDirHis	Max	0	0	1.072E-11	2.907E-07	7.536E-12	0
230	Tren A7	LinDirHis	Min	0	0	-0.000244	-0.00003	-0.000013	0
231	Tren A7	LinDirHis	Max	0	0	9.937E-13	2.762E-12	0.000021	0
231	Tren A7	LinDirHis	Min	0	0	-0.0002	-0.000083	-0.000007673	0
232	Tren A7	LinDirHis	Max	0	0	0.000001982	7.272E-13	0.000047	0
232	Tren A7	LinDirHis	Min	0	0	-0.000335	-0.000097	-0.000004664	0
233	Tren A7	LinDirHis	Max	0	0	0.000002699	3.862E-13	0.000018	0
233	Tren A7	LinDirHis	Min	0	0	-0.000445	-0.000127	-0.000004207	0
234	Tren A7	LinDirHis	Max	0	0	7.592E-07	1.915E-07	0.000045	0
234	Tren A7	LinDirHis	Min	0	0	-0.000501	-0.000165	-0.000007631	0
235	Tren A7	LinDirHis	Max	0	0	3.666E-07	1.332E-07	0.000065	0
235	Tren A7	LinDirHis	Min	0	0	-0.000701	-0.000169	-0.000005452	0
236	Tren A7	LinDirHis	Max	0	0	0.000001519	5.969E-08	0.000045	0
236	Tren A7	LinDirHis	Min	0	0	-0.000862	-0.000193	-0.00001	0
237	Tren A7	LinDirHis	Max	0	0	6.789E-07	1.681E-07	0.000065	0
237	Tren A7	LinDirHis	Min	0	0	-0.001005	-0.000215	-0.000011	0
238	Tren A7	LinDirHis	Max	0	0	6.166E-07	1.811E-07	0.000068	0
238	Tren A7	LinDirHis	Min	0	0	-0.001232	-0.000213	-0.000011	0
239	Tren A7	LinDirHis	Max	0	0	0.000001619	1.056E-07	0.000063	0
239	Tren A7	LinDirHis	Min	0	0	-0.001408	-0.000228	-0.000016	0
240	Tren A7	LinDirHis	Max	0	0	0.000001247	2.002E-07	0.000077	0
240	Tren A7	LinDirHis	Min	0	0	-0.001599	-0.000236	-0.000018	0
241	Tren A7	LinDirHis	Max	0	0	0.000001315	2.497E-07	0.000075	0
241	Tren A7	LinDirHis	Min	0	0	-0.001824	-0.000231	-0.000022	0
242	Tren A7	LinDirHis	Max	0	0	0.000002277	2.264E-07	0.000071	0
242	Tren A7	LinDirHis	Min	0	0	-0.002025	-0.000234	-0.000026	0
244	Tren A7	LinDirHis	Max	0	0	0.000002589	2.795E-07	0.00008	0
244	Tren A7	LinDirHis	Min	0	0	-0.002443	-0.000221	-0.00003	0
245	Tren A7	LinDirHis	Max	0	0	0.000003169	0.000000291	0.000076	0
245	Tren A7	LinDirHis	Min	0	0	-0.00264	-0.000215	-0.000038	0
246	Tren A7	LinDirHis	Max	0	0	0.000003941	0.000000339	0.000077	0
246	Tren A7	LinDirHis	Min	0	0	-0.002827	-0.000202	-0.000042	0
247	Tren A7	LinDirHis	Max	0	0	0.00000444	2.659E-07	0.000072	0
247	Tren A7	LinDirHis	Min	0	0	-0.003009	-0.000187	-0.000045	0
248	Tren A7	LinDirHis	Max	0	0	0.000004655	2.788E-07	0.000075	0
248	Tren A7	LinDirHis	Min	0	0	-0.003183	-0.000173	-0.00005	0
249	Tren A7	LinDirHis	Max	0	0	0.000005164	3.149E-07	0.000073	0
249	Tren A7	LinDirHis	Min	0	0	-0.003346	-0.000153	-0.000054	0
250	Tren A7	LinDirHis	Max	0	0	0.000006606	2.711E-07	0.000068	0
250	Tren A7	LinDirHis	Min	0	0	-0.003486	-0.000134	-0.000065	0
251	Tren A7	LinDirHis	Max	0	0	0.000008306	2.496E-07	0.000062	0
251	Tren A7	LinDirHis	Min	0	0	-0.003604	-0.000115	-0.000066	0
252	Tren A7	LinDirHis	Max	0	0	0.000009171	2.822E-07	0.000058	0

252	Tren A7	LinDirHis	Min	0	0	-0.0037	-0.000091	-0.000067	0
253	Tren A7	LinDirHis	Max	0	0	0.00000928	2.522E-07	0.000059	0
253	Tren A7	LinDirHis	Min	0	0	-0.00379	-0.000067	-0.00007	0
254	Tren A7	LinDirHis	Max	0	0	0.000009655	1.922E-07	0.000047	0
254	Tren A7	LinDirHis	Min	0	0	-0.003849	-0.000044	-0.000076	0
255	Tren A7	LinDirHis	Max	0	0	0.000011	1.711E-07	0.000042	0
255	Tren A7	LinDirHis	Min	0	0	-0.00387	-0.000021	-0.000081	0
256	Tren A7	LinDirHis	Max	0	0	0.000012	0.000014	0.000035	0
256	Tren A7	LinDirHis	Min	0	0	-0.003871	-0.000006734	-0.00008	0
257	Tren A7	LinDirHis	Max	0	0	0.000012	0.000038	0.000029	0
257	Tren A7	LinDirHis	Min	0	0	-0.003854	-0.000003583	-0.000083	0
258	Tren A7	LinDirHis	Max	0	0	0.00001	0.000063	0.000024	0
258	Tren A7	LinDirHis	Min	0	0	-0.003808	-0.000002352	-0.00008	0
259	Tren A7	LinDirHis	Max	0	0	0.000011	0.000088	0.000015	0
259	Tren A7	LinDirHis	Min	0	0	-0.003731	-0.000001403	-0.000089	0
260	Tren A7	LinDirHis	Max	0	0	0.000012	0.000111	0.000005023	0
260	Tren A7	LinDirHis	Min	0	0	-0.003622	-8.936E-07	-0.000088	0
261	Tren A7	LinDirHis	Max	0	0	0.000012	0.000134	0.000001358	0
261	Tren A7	LinDirHis	Min	0	0	-0.003485	-8.445E-07	-0.000089	0
262	Tren A7	LinDirHis	Max	0	0	0.00001	0.000157	0.0000013	0
262	Tren A7	LinDirHis	Min	0	0	-0.003334	-7.145E-07	-0.00009	0
263	Tren A7	LinDirHis	Max	0	0	0.000009259	0.000175	0.000001125	0
263	Tren A7	LinDirHis	Min	0	0	-0.003151	-0.00000081	-0.000089	0
264	Tren A7	LinDirHis	Max	0	0	0.000009376	0.000193	0.000001106	0
264	Tren A7	LinDirHis	Min	0	0	-0.002937	-7.288E-07	-0.000093	0
265	Tren A7	LinDirHis	Max	0	0	0.000008573	0.00021	0.000001126	0
265	Tren A7	LinDirHis	Min	0	0	-0.002708	-7.254E-07	-0.000094	0
266	Tren A7	LinDirHis	Max	0	0	0.000006758	0.000219	0.000001025	0
266	Tren A7	LinDirHis	Min	0	0	-0.002478	-7.578E-07	-0.000093	0
267	Tren A7	LinDirHis	Max	0	0	0.000005447	0.000226	7.942E-07	0
267	Tren A7	LinDirHis	Min	0	0	-0.002234	-6.281E-07	-0.000092	0
268	Tren A7	LinDirHis	Max	0	0	0.000005209	0.000237	6.887E-07	0
268	Tren A7	LinDirHis	Min	0	0	-0.001958	-0.000000629	-0.000091	0
269	Tren A7	LinDirHis	Max	0	0	0.00000463	0.00023	6.547E-07	0
269	Tren A7	LinDirHis	Min	0	0	-0.001707	-7.065E-07	-0.000082	0
270	Tren A7	LinDirHis	Max	0	0	0.000004485	0.000224	5.864E-07	0
270	Tren A7	LinDirHis	Min	0	0	-0.00144	-6.448E-07	-0.000089	0
271	Tren A7	LinDirHis	Max	0	0	0.000003384	0.000223	6.268E-07	0
271	Tren A7	LinDirHis	Min	0	0	-0.001167	-0.000000721	-0.000076	0
272	Tren A7	LinDirHis	Max	0	0	0.000002722	0.000196	4.432E-07	0
272	Tren A7	LinDirHis	Min	0	0	-0.00096	-5.702E-07	-0.000059	0
273	Tren A7	LinDirHis	Max	0	0	0.000002486	0.000177	4.302E-07	0
273	Tren A7	LinDirHis	Min	0	0	-0.000716	-5.149E-07	-0.00007	0
274	Tren A7	LinDirHis	Max	0	0	0.000001546	0.000157	4.519E-07	0
274	Tren A7	LinDirHis	Min	0	0	-0.000505	-0.000000603	-0.000042	0
275	Tren A7	LinDirHis	Max	0	0	0.000002092	0.000101	0.00000019	0
275	Tren A7	LinDirHis	Min	0	0	-0.000417	-4.679E-07	-0.000034	0
276	Tren A7	LinDirHis	Max	0	0	0.000001733	0.000066	5.131E-07	0
276	Tren A7	LinDirHis	Min	0	0	-0.000234	-3.421E-07	-0.000048	0
277	Tren A7	LinDirHis	Max	0	0	0.000003435	0.000028	0.000001055	0

277	Tren A7	LinDirHis	Min	0	0	-0.000053	-3.877E-07	-0.00000738	0
278	Tren A7	LinDirHis	Max	0	0	8.797E-07	0.000031	3.105E-07	0
278	Tren A7	LinDirHis	Min	0	0	-0.000072	-3.679E-07	-0.00005	0
279	Tren A7	LinDirHis	Max	0	0	9.261E-12	0.000002313	0.000068	0
279	Tren A7	LinDirHis	Min	0	0	-0.000136	-2.33E-12	-0.000001379	0
280	Tren A7	LinDirHis	Max	0	0	7.01E-08	6.808E-13	0.000045	0
280	Tren A7	LinDirHis	Min	0	0	-0.000274	-0.000092	-0.000002877	0
283	Tren A7	LinDirHis	Max	0	0	0.000002953	3.315E-13	0.000035	0
283	Tren A7	LinDirHis	Min	0	0	-0.000419	-0.000111	-8.657E-07	0
347	Tren A7	LinDirHis	Max	0	0	0.000001773	8.954E-08	0.000021	0
347	Tren A7	LinDirHis	Min	0	0	-0.000476	-0.000153	-0.000007271	0
378	Tren A7	LinDirHis	Max	0	0	3.337E-07	1.709E-07	0.000066	0
378	Tren A7	LinDirHis	Min	0	0	-0.000605	-0.000172	-0.000005391	0
379	Tren A7	LinDirHis	Max	0	0	0.000001411	1.018E-07	0.000049	0
379	Tren A7	LinDirHis	Min	0	0	-0.000807	-0.000183	-0.000005762	0
380	Tren A7	LinDirHis	Max	0	0	0.000001161	1.255E-07	0.00005	0
380	Tren A7	LinDirHis	Min	0	0	-0.000933	-0.000211	-0.00001	0
381	Tren A7	LinDirHis	Max	0	0	6.684E-07	1.793E-07	0.000078	0
381	Tren A7	LinDirHis	Min	0	0	-0.001128	-0.000219	-0.000009391	0
383	Tren A7	LinDirHis	Max	0	0	0.000001313	1.505E-07	0.000061	0
383	Tren A7	LinDirHis	Min	0	0	-0.001336	-0.000225	-0.000013	0
388	Tren A7	LinDirHis	Max	0	0	0.000001411	2.055E-07	0.000067	0
388	Tren A7	LinDirHis	Min	0	0	-0.001509	-0.000239	-0.000016	0
389	Tren A7	LinDirHis	Max	0	0	0.000001467	2.759E-07	0.000076	0
389	Tren A7	LinDirHis	Min	0	0	-0.00172	-0.000237	-0.000017	0
390	Tren A7	LinDirHis	Max	0	0	0.00000208	1.976E-07	0.000074	0
390	Tren A7	LinDirHis	Min	0	0	-0.001937	-0.000237	-0.000021	0
391	Tren A7	LinDirHis	Max	0	0	0.000001961	2.604E-07	0.000078	0
391	Tren A7	LinDirHis	Min	0	0	-0.002138	-0.000239	-0.000024	0
392	Tren A7	LinDirHis	Max	0	0	0.00000252	3.336E-07	0.000078	0
392	Tren A7	LinDirHis	Min	0	0	-0.002348	-0.000229	-0.00003	0
393	Tren A7	LinDirHis	Max	0	0	0.000003359	2.546E-07	0.000076	0
393	Tren A7	LinDirHis	Min	0	0	-0.002552	-0.000223	-0.000032	0
394	Tren A7	LinDirHis	Max	0	0	0.000003664	2.755E-07	0.000077	0
394	Tren A7	LinDirHis	Min	0	0	-0.002737	-0.000216	-0.000034	0
448	Tren A7	LinDirHis	Max	0	0	0.000003485	0.000000343	0.000077	0
448	Tren A7	LinDirHis	Min	0	0	-0.002935	-0.000199	-0.000038	0
449	Tren A7	LinDirHis	Max	0	0	0.000004543	3.029E-07	0.000072	0
449	Tren A7	LinDirHis	Min	0	0	-0.003113	-0.000185	-0.000049	0
450	Tren A7	LinDirHis	Max	0	0	0.00000558	2.773E-07	0.000071	0
450	Tren A7	LinDirHis	Min	0	0	-0.003275	-0.000166	-0.000053	0
451	Tren A7	LinDirHis	Max	0	0	0.000006313	2.904E-07	0.000068	0
451	Tren A7	LinDirHis	Min	0	0	-0.003418	-0.000146	-0.000054	0
452	Tren A7	LinDirHis	Max	0	0	0.000007148	2.943E-07	0.000067	0
452	Tren A7	LinDirHis	Min	0	0	-0.00356	-0.000125	-0.000059	0
455	Tren A7	LinDirHis	Max	0	0	0.000007684	3.051E-07	0.000061	0
455	Tren A7	LinDirHis	Min	0	0	-0.003672	-0.000104	-0.000064	0
516	Tren A7	LinDirHis	Max	0	0	0.00000925	2.329E-07	0.000056	0
516	Tren A7	LinDirHis	Min	0	0	-0.003758	-0.00008	-0.00007	0
517	Tren A7	LinDirHis	Max	0	0	0.000011	2.255E-07	0.00005	0

517	Tren A7	LinDirHis	Min	0	0	-0.003829	-0.000056	-0.000072	0
518	Tren A7	LinDirHis	Max	0	0	0.000011	0.000000204	0.000043	0
518	Tren A7	LinDirHis	Min	0	0	-0.003868	-0.000033	-0.000074	0
519	Tren A7	LinDirHis	Max	0	0	0.00001	0.000002658	0.000041	0
519	Tren A7	LinDirHis	Min	0	0	-0.003891	-0.000011	-0.000073	0
527	Tren A7	LinDirHis	Max	0	0	0.000011	0.000027	0.000031	0
527	Tren A7	LinDirHis	Min	0	0	-0.003882	-0.000004526	-0.000081	0
528	Tren A7	LinDirHis	Max	0	0	0.000012	0.000051	0.000023	0
528	Tren A7	LinDirHis	Min	0	0	-0.003841	-0.000003	-0.000083	0
529	Tren A7	LinDirHis	Max	0	0	0.000012	0.000077	0.000017	0
529	Tren A7	LinDirHis	Min	0	0	-0.003773	-0.00000188	-0.000082	0
531	Tren A7	LinDirHis	Max	0	0	0.000012	0.000102	0.000012	0
531	Tren A7	LinDirHis	Min	0	0	-0.003694	-0.000001165	-0.000084	0
532	Tren A7	LinDirHis	Max	0	0	0.00001	0.000125	0.000002689	0
532	Tren A7	LinDirHis	Min	0	0	-0.003574	-9.362E-07	-0.000082	0
533	Tren A7	LinDirHis	Max	0	0	0.000011	0.000148	0.000001201	0
533	Tren A7	LinDirHis	Min	0	0	-0.003423	-8.438E-07	-0.000086	0
539	Tren A7	LinDirHis	Max	0	0	0.000011	0.00017	0.000001262	0
539	Tren A7	LinDirHis	Min	0	0	-0.00325	-8.659E-07	-0.00009	0
540	Tren A7	LinDirHis	Max	0	0	0.00001	0.000188	0.000001214	0
540	Tren A7	LinDirHis	Min	0	0	-0.003052	-7.589E-07	-0.000093	0
541	Tren A7	LinDirHis	Max	0	0	0.000008122	0.000207	0.000001102	0
541	Tren A7	LinDirHis	Min	0	0	-0.002841	-8.261E-07	-0.00009	0
542	Tren A7	LinDirHis	Max	0	0	0.00000734	0.000221	9.251E-07	0
542	Tren A7	LinDirHis	Min	0	0	-0.002608	-8.064E-07	-0.00009	0
543	Tren A7	LinDirHis	Max	0	0	0.000006656	0.000227	8.782E-07	0
543	Tren A7	LinDirHis	Min	0	0	-0.002365	-6.896E-07	-0.000091	0
544	Tren A7	LinDirHis	Max	0	0	0.000006003	0.000236	8.052E-07	0
544	Tren A7	LinDirHis	Min	0	0	-0.002101	-7.164E-07	-0.000095	0
545	Tren A7	LinDirHis	Max	0	0	0.000004678	0.000239	7.463E-07	0
545	Tren A7	LinDirHis	Min	0	0	-0.001842	-0.000000791	-0.000084	0
546	Tren A7	LinDirHis	Max	0	0	0.000003936	0.000229	5.584E-07	0
546	Tren A7	LinDirHis	Min	0	0	-0.001593	-5.974E-07	-0.000081	0
547	Tren A7	LinDirHis	Max	0	0	0.000003759	0.000229	5.579E-07	0
547	Tren A7	LinDirHis	Min	0	0	-0.001306	-6.249E-07	-0.000084	0
548	Tren A7	LinDirHis	Max	0	0	0.000002982	0.000215	4.834E-07	0
548	Tren A7	LinDirHis	Min	0	0	-0.001068	-7.373E-07	-0.000062	0
549	Tren A7	LinDirHis	Max	0	0	0.00000294	0.000187	3.711E-07	0
549	Tren A7	LinDirHis	Min	0	0	-0.000856	-0.000000609	-0.000068	0
550	Tren A7	LinDirHis	Max	0	0	0.000002387	0.000174	0.000000442	0
550	Tren A7	LinDirHis	Min	0	0	-0.00061	-0.000000592	-0.000062	0
551	Tren A7	LinDirHis	Max	0	0	0.000001409	0.000135	3.133E-07	0
551	Tren A7	LinDirHis	Min	0	0	-0.000472	-5.133E-07	-0.000021	0
552	Tren A7	LinDirHis	Max	0	0	0.000002513	0.000082	0.000000228	0
552	Tren A7	LinDirHis	Min	0	0	-0.000347	-4.031E-07	-0.000054	0
553	Tren A7	LinDirHis	Max	0	0	7.886E-07	0.000047	4.639E-07	0
553	Tren A7	LinDirHis	Min	0	0	-0.000171	-0.000000414	-0.000038	0
556	Tren A7	LinDirHis	Max	0	0	1.071E-11	0.000003875	0.000074	0
556	Tren A7	LinDirHis	Min	0	0	-0.000155	-2.666E-12	-0.000001538	0
557	Tren A7	LinDirHis	Max	0	0	0.000002549	2.678E-07	0.000078	0

Apéndice L1				Flecha Dinámica Tren A7						V= 336 km/h
557	Tren A7	LinDirHis	Min	0	0	-0.002225	-0.00023	-0.000025	0	