

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	4.343E-11	0.000003314	0.000026	0
140	Tren A7	LinDirHis	Min	0	0	-0.000279	-0.000002688	-1.577E-12	0
229	Tren A7	LinDirHis	Max	0	0	1.072E-11	2.194E-08	6.148E-12	0
229	Tren A7	LinDirHis	Min	0	0	-0.000249	-0.000067	-0.000024	0
230	Tren A7	LinDirHis	Max	0	0	2.057E-11	2.907E-07	2.189E-11	0
230	Tren A7	LinDirHis	Min	0	0	-0.000268	-0.000033	-0.000013	0
231	Tren A7	LinDirHis	Max	0	0	2.764E-12	2.924E-12	0.000019	0
231	Tren A7	LinDirHis	Min	0	0	-0.000214	-0.000089	-0.000009957	0
232	Tren A7	LinDirHis	Max	0	0	0.000002246	1.311E-12	0.00005	0
232	Tren A7	LinDirHis	Min	0	0	-0.000363	-0.000104	-0.000004398	0
233	Tren A7	LinDirHis	Max	0	0	0.000004599	7.034E-13	0.000024	0
233	Tren A7	LinDirHis	Min	0	0	-0.000479	-0.000136	-0.000007176	0
234	Tren A7	LinDirHis	Max	0	0	0.000001419	3.341E-07	0.000052	0
234	Tren A7	LinDirHis	Min	0	0	-0.00054	-0.000178	-0.00001	0
235	Tren A7	LinDirHis	Max	0	0	6.919E-07	2.228E-07	0.000068	0
235	Tren A7	LinDirHis	Min	0	0	-0.000758	-0.000182	-0.000008095	0
236	Tren A7	LinDirHis	Max	0	0	0.000001977	8.75E-08	0.000052	0
236	Tren A7	LinDirHis	Min	0	0	-0.000925	-0.000207	-0.000014	0
237	Tren A7	LinDirHis	Max	0	0	0.000001356	2.649E-07	0.000074	0
237	Tren A7	LinDirHis	Min	0	0	-0.00108	-0.000231	-0.000017	0
238	Tren A7	LinDirHis	Max	0	0	0.00000113	2.571E-07	0.000078	0
238	Tren A7	LinDirHis	Min	0	0	-0.001321	-0.000228	-0.000017	0
239	Tren A7	LinDirHis	Max	0	0	0.000002388	1.877E-07	0.000071	0
239	Tren A7	LinDirHis	Min	0	0	-0.001513	-0.000244	-0.000024	0
240	Tren A7	LinDirHis	Max	0	0	0.00000201	3.228E-07	0.000085	0
240	Tren A7	LinDirHis	Min	0	0	-0.001714	-0.000252	-0.000027	0
241	Tren A7	LinDirHis	Max	0	0	0.000002235	3.461E-07	0.000085	0
241	Tren A7	LinDirHis	Min	0	0	-0.001955	-0.000247	-0.000029	0
242	Tren A7	LinDirHis	Max	0	0	0.000003372	3.069E-07	0.000085	0
242	Tren A7	LinDirHis	Min	0	0	-0.002171	-0.000251	-0.000035	0
244	Tren A7	LinDirHis	Max	0	0	0.000003934	4.146E-07	0.000089	0
244	Tren A7	LinDirHis	Min	0	0	-0.002621	-0.000237	-0.000042	0
245	Tren A7	LinDirHis	Max	0	0	0.000004863	3.904E-07	0.00009	0
245	Tren A7	LinDirHis	Min	0	0	-0.002828	-0.000231	-0.000049	0
246	Tren A7	LinDirHis	Max	0	0	0.000005119	4.556E-07	0.000091	0
246	Tren A7	LinDirHis	Min	0	0	-0.003035	-0.000217	-0.000053	0
247	Tren A7	LinDirHis	Max	0	0	0.000005824	4.302E-07	0.000086	0
247	Tren A7	LinDirHis	Min	0	0	-0.003231	-0.0002	-0.000061	0
248	Tren A7	LinDirHis	Max	0	0	0.000006858	0.000000395	0.000087	0
248	Tren A7	LinDirHis	Min	0	0	-0.003413	-0.000185	-0.000068	0
249	Tren A7	LinDirHis	Max	0	0	0.000007814	4.223E-07	0.000085	0
249	Tren A7	LinDirHis	Min	0	0	-0.003579	-0.000165	-0.000074	0
250	Tren A7	LinDirHis	Max	0	0	0.000009476	4.006E-07	0.000081	0
250	Tren A7	LinDirHis	Min	0	0	-0.003727	-0.000144	-0.000079	0
251	Tren A7	LinDirHis	Max	0	0	0.000011	3.924E-07	0.000079	0
251	Tren A7	LinDirHis	Min	0	0	-0.003855	-0.000123	-0.000085	0
252	Tren A7	LinDirHis	Max	0	0	0.000013	3.933E-07	0.000075	0

252	Tren A7	LinDirHis	Min	0	0	-0.003963	-0.000098	-0.000089	0
253	Tren A7	LinDirHis	Max	0	0	0.000014	3.434E-07	0.00007	0
253	Tren A7	LinDirHis	Min	0	0	-0.004051	-0.000072	-0.000094	0
254	Tren A7	LinDirHis	Max	0	0	0.000015	0.000000295	0.000064	0
254	Tren A7	LinDirHis	Min	0	0	-0.004113	-0.000048	-0.000098	0
255	Tren A7	LinDirHis	Max	0	0	0.000015	0.000000245	0.000058	0
255	Tren A7	LinDirHis	Min	0	0	-0.004148	-0.000024	-0.000101	0
256	Tren A7	LinDirHis	Max	0	0	0.000016	0.000016	0.000052	0
256	Tren A7	LinDirHis	Min	0	0	-0.004156	-0.000009169	-0.000103	0
257	Tren A7	LinDirHis	Max	0	0	0.000016	0.000042	0.000044	0
257	Tren A7	LinDirHis	Min	0	0	-0.004134	-0.000005011	-0.000105	0
258	Tren A7	LinDirHis	Max	0	0	0.000016	0.000068	0.000036	0
258	Tren A7	LinDirHis	Min	0	0	-0.004079	-0.000003035	-0.000107	0
259	Tren A7	LinDirHis	Max	0	0	0.000016	0.000095	0.000028	0
259	Tren A7	LinDirHis	Min	0	0	-0.003995	-0.000001978	-0.000109	0
260	Tren A7	LinDirHis	Max	0	0	0.000015	0.00012	0.00002	0
260	Tren A7	LinDirHis	Min	0	0	-0.00388	-0.000001335	-0.000112	0
261	Tren A7	LinDirHis	Max	0	0	0.000015	0.000144	0.000012	0
261	Tren A7	LinDirHis	Min	0	0	-0.003736	-0.000001129	-0.000114	0
262	Tren A7	LinDirHis	Max	0	0	0.000014	0.000168	0.000003515	0
262	Tren A7	LinDirHis	Min	0	0	-0.003565	-0.000001051	-0.000114	0
263	Tren A7	LinDirHis	Max	0	0	0.000013	0.000188	0.000001653	0
263	Tren A7	LinDirHis	Min	0	0	-0.003369	-0.000001052	-0.000112	0
264	Tren A7	LinDirHis	Max	0	0	0.000013	0.000206	0.000001514	0
264	Tren A7	LinDirHis	Min	0	0	-0.003152	-0.000001043	-0.000112	0
265	Tren A7	LinDirHis	Max	0	0	0.000011	0.000225	0.000001423	0
265	Tren A7	LinDirHis	Min	0	0	-0.002911	-0.000001083	-0.000112	0
266	Tren A7	LinDirHis	Max	0	0	0.000009192	0.000235	0.000001294	0
266	Tren A7	LinDirHis	Min	0	0	-0.002662	-0.000001037	-0.00011	0
267	Tren A7	LinDirHis	Max	0	0	0.000008405	0.000242	0.000001075	0
267	Tren A7	LinDirHis	Min	0	0	-0.002397	-9.187E-07	-0.000111	0
268	Tren A7	LinDirHis	Max	0	0	0.00000733	0.000253	0.000001062	0
268	Tren A7	LinDirHis	Min	0	0	-0.002102	-0.000001006	-0.000107	0
269	Tren A7	LinDirHis	Max	0	0	0.000006311	0.000246	9.073E-07	0
269	Tren A7	LinDirHis	Min	0	0	-0.001833	-0.000000986	-0.000095	0
270	Tren A7	LinDirHis	Max	0	0	0.000006077	0.00024	8.065E-07	0
270	Tren A7	LinDirHis	Min	0	0	-0.001548	-8.741E-07	-0.000098	0
271	Tren A7	LinDirHis	Max	0	0	0.000004787	0.000238	8.462E-07	0
271	Tren A7	LinDirHis	Min	0	0	-0.001247	-9.774E-07	-0.000086	0
272	Tren A7	LinDirHis	Max	0	0	0.00000374	0.000209	6.158E-07	0
272	Tren A7	LinDirHis	Min	0	0	-0.001025	-8.885E-07	-0.000069	0
273	Tren A7	LinDirHis	Max	0	0	0.000003585	0.000189	5.309E-07	0
273	Tren A7	LinDirHis	Min	0	0	-0.000772	-0.000000737	-0.000077	0
274	Tren A7	LinDirHis	Max	0	0	0.000002093	0.000168	6.378E-07	0
274	Tren A7	LinDirHis	Min	0	0	-0.000541	-8.183E-07	-0.000047	0
275	Tren A7	LinDirHis	Max	0	0	0.000002697	0.000108	2.615E-07	0
275	Tren A7	LinDirHis	Min	0	0	-0.000452	-6.647E-07	-0.000034	0
276	Tren A7	LinDirHis	Max	0	0	0.00000263	0.000071	7.095E-07	0
276	Tren A7	LinDirHis	Min	0	0	-0.000254	-4.899E-07	-0.000055	0
277	Tren A7	LinDirHis	Max	0	0	0.000004096	0.00003	2.773E-07	0

277	Tren A7	LinDirHis	Min	0	0	-0.000056	-5.571E-07	-0.000013	0
278	Tren A7	LinDirHis	Max	0	0	0.000000987	0.000034	4.865E-07	0
278	Tren A7	LinDirHis	Min	0	0	-0.000083	-5.422E-07	-0.00005	0
279	Tren A7	LinDirHis	Max	0	0	2.156E-11	0.000002436	0.000075	0
279	Tren A7	LinDirHis	Min	0	0	-0.000149	-5.662E-12	-0.000001379	0
280	Tren A7	LinDirHis	Max	0	0	7.01E-08	2.188E-12	0.000051	0
280	Tren A7	LinDirHis	Min	0	0	-0.000285	-0.000099	-0.000004889	0
283	Tren A7	LinDirHis	Max	0	0	0.000004675	1.855E-12	0.000037	0
283	Tren A7	LinDirHis	Min	0	0	-0.000445	-0.000119	-0.000002631	0
347	Tren A7	LinDirHis	Max	0	0	0.000003138	1.069E-07	0.000023	0
347	Tren A7	LinDirHis	Min	0	0	-0.000509	-0.000164	-0.00001	0
378	Tren A7	LinDirHis	Max	0	0	0.000000318	3.264E-07	0.000073	0
378	Tren A7	LinDirHis	Min	0	0	-0.000648	-0.000184	-0.000007038	0
379	Tren A7	LinDirHis	Max	0	0	0.000001915	1.224E-07	0.000054	0
379	Tren A7	LinDirHis	Min	0	0	-0.000859	-0.000197	-0.000008878	0
380	Tren A7	LinDirHis	Max	0	0	0.000001739	1.723E-07	0.000056	0
380	Tren A7	LinDirHis	Min	0	0	-0.001001	-0.000227	-0.000015	0
381	Tren A7	LinDirHis	Max	0	0	9.041E-07	3.323E-07	0.000082	0
381	Tren A7	LinDirHis	Min	0	0	-0.001206	-0.000235	-0.000014	0
383	Tren A7	LinDirHis	Max	0	0	0.00000157	1.911E-07	0.000068	0
383	Tren A7	LinDirHis	Min	0	0	-0.00143	-0.000241	-0.000018	0
388	Tren A7	LinDirHis	Max	0	0	0.000002232	2.989E-07	0.000076	0
388	Tren A7	LinDirHis	Min	0	0	-0.001614	-0.000256	-0.000022	0
389	Tren A7	LinDirHis	Max	0	0	0.000002023	4.088E-07	0.000086	0
389	Tren A7	LinDirHis	Min	0	0	-0.001843	-0.000254	-0.000023	0
390	Tren A7	LinDirHis	Max	0	0	0.000002681	3.019E-07	0.000082	0
390	Tren A7	LinDirHis	Min	0	0	-0.002072	-0.000253	-0.000026	0
391	Tren A7	LinDirHis	Max	0	0	0.000003537	0.000000413	0.000088	0
391	Tren A7	LinDirHis	Min	0	0	-0.00229	-0.000256	-0.000032	0
392	Tren A7	LinDirHis	Max	0	0	0.000003728	4.659E-07	0.000089	0
392	Tren A7	LinDirHis	Min	0	0	-0.002522	-0.000246	-0.000035	0
393	Tren A7	LinDirHis	Max	0	0	0.000004494	3.849E-07	0.000089	0
393	Tren A7	LinDirHis	Min	0	0	-0.002736	-0.000239	-0.000041	0
394	Tren A7	LinDirHis	Max	0	0	0.000005254	4.669E-07	0.000091	0
394	Tren A7	LinDirHis	Min	0	0	-0.002943	-0.000231	-0.000046	0
448	Tren A7	LinDirHis	Max	0	0	0.000005662	4.742E-07	0.000088	0
448	Tren A7	LinDirHis	Min	0	0	-0.003149	-0.000214	-0.000051	0
449	Tren A7	LinDirHis	Max	0	0	0.000006497	3.948E-07	0.000087	0
449	Tren A7	LinDirHis	Min	0	0	-0.003337	-0.000199	-0.00006	0
450	Tren A7	LinDirHis	Max	0	0	0.000007404	4.109E-07	0.000086	0
450	Tren A7	LinDirHis	Min	0	0	-0.003511	-0.000178	-0.000066	0
451	Tren A7	LinDirHis	Max	0	0	0.00000831	3.999E-07	0.000083	0
451	Tren A7	LinDirHis	Min	0	0	-0.00367	-0.000156	-0.000071	0
452	Tren A7	LinDirHis	Max	0	0	0.000009713	3.783E-07	0.000081	0
452	Tren A7	LinDirHis	Min	0	0	-0.003807	-0.000135	-0.000078	0
455	Tren A7	LinDirHis	Max	0	0	0.000011	3.987E-07	0.000076	0
455	Tren A7	LinDirHis	Min	0	0	-0.003927	-0.000112	-0.000085	0
516	Tren A7	LinDirHis	Max	0	0	0.000012	3.551E-07	0.000072	0
516	Tren A7	LinDirHis	Min	0	0	-0.004026	-0.000085	-0.00009	0
517	Tren A7	LinDirHis	Max	0	0	0.000014	0.000000291	0.000068	0

517	Tren A7	LinDirHis	Min	0	0	-0.004102	-0.00006	-0.000095	0
518	Tren A7	LinDirHis	Max	0	0	0.000014	2.552E-07	0.00006	0
518	Tren A7	LinDirHis	Min	0	0	-0.00415	-0.000036	-0.0001	0
519	Tren A7	LinDirHis	Max	0	0	0.000015	0.000004456	0.000054	0
519	Tren A7	LinDirHis	Min	0	0	-0.004171	-0.000015	-0.000102	0
527	Tren A7	LinDirHis	Max	0	0	0.000016	0.00003	0.000046	0
527	Tren A7	LinDirHis	Min	0	0	-0.004163	-0.000006405	-0.000105	0
528	Tren A7	LinDirHis	Max	0	0	0.000016	0.000056	0.000037	0
528	Tren A7	LinDirHis	Min	0	0	-0.004123	-0.000003912	-0.000107	0
529	Tren A7	LinDirHis	Max	0	0	0.000016	0.000083	0.00003	0
529	Tren A7	LinDirHis	Min	0	0	-0.004053	-0.000002559	-0.000108	0
531	Tren A7	LinDirHis	Max	0	0	0.000016	0.000109	0.000021	0
531	Tren A7	LinDirHis	Min	0	0	-0.003952	-0.000001709	-0.00011	0
532	Tren A7	LinDirHis	Max	0	0	0.000016	0.000134	0.000013	0
532	Tren A7	LinDirHis	Min	0	0	-0.003822	-0.000001235	-0.00011	0
533	Tren A7	LinDirHis	Max	0	0	0.000015	0.000158	0.000005809	0
533	Tren A7	LinDirHis	Min	0	0	-0.003664	-0.000001149	-0.000109	0
539	Tren A7	LinDirHis	Max	0	0	0.000015	0.000182	0.000001723	0
539	Tren A7	LinDirHis	Min	0	0	-0.003478	-0.000001192	-0.000106	0
540	Tren A7	LinDirHis	Max	0	0	0.000014	0.000202	0.00000162	0
540	Tren A7	LinDirHis	Min	0	0	-0.00327	-0.000001112	-0.000105	0
541	Tren A7	LinDirHis	Max	0	0	0.000013	0.000222	0.000001539	0
541	Tren A7	LinDirHis	Min	0	0	-0.003042	-0.000001117	-0.000106	0
542	Tren A7	LinDirHis	Max	0	0	0.000011	0.000237	0.000001486	0
542	Tren A7	LinDirHis	Min	0	0	-0.002794	-0.000001097	-0.000105	0
543	Tren A7	LinDirHis	Max	0	0	0.000009128	0.000243	0.00000126	0
543	Tren A7	LinDirHis	Min	0	0	-0.002542	-9.493E-07	-0.000104	0
544	Tren A7	LinDirHis	Max	0	0	0.000008089	0.000254	0.0000011	0
544	Tren A7	LinDirHis	Min	0	0	-0.002259	-9.087E-07	-0.000107	0
545	Tren A7	LinDirHis	Max	0	0	0.000006687	0.000257	0.000001007	0
545	Tren A7	LinDirHis	Min	0	0	-0.001975	-9.842E-07	-0.000096	0
546	Tren A7	LinDirHis	Max	0	0	0.000005763	0.000246	8.073E-07	0
546	Tren A7	LinDirHis	Min	0	0	-0.001708	-0.000000896	-0.000093	0
547	Tren A7	LinDirHis	Max	0	0	0.000005079	0.000245	7.586E-07	0
547	Tren A7	LinDirHis	Min	0	0	-0.001402	-8.858E-07	-0.000096	0
548	Tren A7	LinDirHis	Max	0	0	0.000003799	0.00023	6.721E-07	0
548	Tren A7	LinDirHis	Min	0	0	-0.001143	-9.582E-07	-0.000069	0
549	Tren A7	LinDirHis	Max	0	0	0.000004162	0.000201	5.017E-07	0
549	Tren A7	LinDirHis	Min	0	0	-0.000918	-7.589E-07	-0.000073	0
550	Tren A7	LinDirHis	Max	0	0	0.000003304	0.000186	6.644E-07	0
550	Tren A7	LinDirHis	Min	0	0	-0.000651	-8.176E-07	-0.000069	0
551	Tren A7	LinDirHis	Max	0	0	0.000001772	0.000144	4.322E-07	0
551	Tren A7	LinDirHis	Min	0	0	-0.000504	-8.304E-07	-0.000025	0
552	Tren A7	LinDirHis	Max	0	0	0.000003616	0.000088	3.756E-07	0
552	Tren A7	LinDirHis	Min	0	0	-0.000377	-5.462E-07	-0.000058	0
553	Tren A7	LinDirHis	Max	0	0	0.000001248	0.000052	7.016E-07	0
553	Tren A7	LinDirHis	Min	0	0	-0.000178	-5.971E-07	-0.000042	0
556	Tren A7	LinDirHis	Max	0	0	2.507E-11	0.000003994	0.000081	0
556	Tren A7	LinDirHis	Min	0	0	-0.00017	-6.545E-12	-0.000001538	0
557	Tren A7	LinDirHis	Max	0	0	0.000003408	4.138E-07	0.000092	0

Apéndice N1				Flecha Dinámica Tren A7						V= 250 km/h
557	Tren A7	LinDirHis	Min	0	0	-0.002395	-0.000246	-0.000038	0	