

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 A9	LinDirHist	Max	0	0	1.901E-11	0.000003677	0.000025	0
140	Tren A9	LinDirHist	Min	0	0	-0.000278	-0.000002981	-3.448E-14	0
229	Tren A9	LinDirHist	Max	0	0	9.355E-12	2.513E-08	9.869E-13	0
229	Tren A9	LinDirHist	Min	0	0	-0.000261	-0.000071	-0.000022	0
230	Tren A9	LinDirHist	Max	0	0	4.075E-12	3.221E-07	1.437E-11	0
230	Tren A9	LinDirHist	Min	0	0	-0.000263	-0.000035	-0.000013	0
231	Tren A9	LinDirHist	Max	0	0	3.815E-13	8.934E-13	0.000026	0
231	Tren A9	LinDirHist	Min	0	0	-0.000223	-0.000094	-0.000011	0
232	Tren A9	LinDirHist	Max	0	0	0.000002482	1.847E-13	0.000055	0
232	Tren A9	LinDirHist	Min	0	0	-0.000385	-0.00011	-0.000004863	0
233	Tren A9	LinDirHist	Max	0	0	0.000005084	1.198E-13	0.000025	0
233	Tren A9	LinDirHist	Min	0	0	-0.00051	-0.000144	-0.000007937	0
234	Tren A9	LinDirHist	Max	0	0	0.000001568	3.693E-07	0.000054	0
234	Tren A9	LinDirHist	Min	0	0	-0.000571	-0.000189	-0.000011	0
235	Tren A9	LinDirHist	Max	0	0	7.654E-07	2.462E-07	0.000072	0
235	Tren A9	LinDirHist	Min	0	0	-0.0008	-0.000193	-0.000008948	0
236	Tren A9	LinDirHist	Max	0	0	0.000002184	9.669E-08	0.000054	0
236	Tren A9	LinDirHist	Min	0	0	-0.000978	-0.000219	-0.000016	0
237	Tren A9	LinDirHist	Max	0	0	0.000001499	0.000000293	0.000077	0
237	Tren A9	LinDirHist	Min	0	0	-0.001143	-0.000245	-0.000018	0
238	Tren A9	LinDirHist	Max	0	0	0.000001249	2.841E-07	0.000081	0
238	Tren A9	LinDirHist	Min	0	0	-0.001399	-0.000242	-0.000019	0
239	Tren A9	LinDirHist	Max	0	0	0.000000264	2.074E-07	0.000074	0
239	Tren A9	LinDirHist	Min	0	0	-0.0016	-0.000259	-0.000027	0
240	Tren A9	LinDirHist	Max	0	0	0.000002223	3.566E-07	0.000089	0
240	Tren A9	LinDirHist	Min	0	0	-0.001814	-0.000268	-0.00003	0
241	Tren A9	LinDirHist	Max	0	0	0.000002472	3.825E-07	0.000089	0
241	Tren A9	LinDirHist	Min	0	0	-0.00207	-0.000262	-0.000032	0
242	Tren A9	LinDirHist	Max	0	0	0.000003729	3.392E-07	0.000089	0
242	Tren A9	LinDirHist	Min	0	0	-0.002297	-0.000266	-0.000039	0
244	Tren A9	LinDirHist	Max	0	0	0.000004348	4.582E-07	0.000094	0
244	Tren A9	LinDirHist	Min	0	0	-0.002776	-0.000251	-0.000047	0
245	Tren A9	LinDirHist	Max	0	0	0.000005376	4.313E-07	0.000096	0
245	Tren A9	LinDirHist	Min	0	0	-0.002995	-0.000244	-0.000054	0
246	Tren A9	LinDirHist	Max	0	0	0.00000566	5.034E-07	0.000097	0
246	Tren A9	LinDirHist	Min	0	0	-0.003217	-0.00023	-0.000059	0
247	Tren A9	LinDirHist	Max	0	0	0.000006438	4.754E-07	0.000094	0
247	Tren A9	LinDirHist	Min	0	0	-0.003427	-0.000212	-0.000067	0
248	Tren A9	LinDirHist	Max	0	0	0.00000758	4.366E-07	0.000095	0
248	Tren A9	LinDirHist	Min	0	0	-0.003623	-0.000197	-0.000075	0
249	Tren A9	LinDirHist	Max	0	0	0.000008637	4.666E-07	0.000092	0
249	Tren A9	LinDirHist	Min	0	0	-0.003802	-0.000175	-0.000081	0
250	Tren A9	LinDirHist	Max	0	0	0.00001	4.428E-07	0.000088	0
250	Tren A9	LinDirHist	Min	0	0	-0.003959	-0.000153	-0.000088	0
251	Tren A9	LinDirHist	Max	0	0	0.000012	4.337E-07	0.000085	0
251	Tren A9	LinDirHist	Min	0	0	-0.004094	-0.00013	-0.000094	0
252	Tren A9	LinDirHist	Max	0	0	0.000014	4.347E-07	0.00008	0

252	Tren A9	LinDirHist	Min	0	0	-0.004208	-0.000104	-0.000099	0
253	Tren A9	LinDirHist	Max	0	0	0.000015	3.796E-07	0.000076	0
253	Tren A9	LinDirHist	Min	0	0	-0.004301	-0.000077	-0.000104	0
254	Tren A9	LinDirHist	Max	0	0	0.000016	3.261E-07	0.000069	0
254	Tren A9	LinDirHist	Min	0	0	-0.004366	-0.000051	-0.000108	0
255	Tren A9	LinDirHist	Max	0	0	0.000017	2.708E-07	0.000062	0
255	Tren A9	LinDirHist	Min	0	0	-0.004401	-0.000026	-0.000112	0
256	Tren A9	LinDirHist	Max	0	0	0.000017	0.000017	0.000055	0
256	Tren A9	LinDirHist	Min	0	0	-0.004407	-0.00001	-0.000114	0
257	Tren A9	LinDirHist	Max	0	0	0.000018	0.000045	0.000046	0
257	Tren A9	LinDirHist	Min	0	0	-0.004383	-0.000005538	-0.000117	0
258	Tren A9	LinDirHist	Max	0	0	0.000017	0.000073	0.000038	0
258	Tren A9	LinDirHist	Min	0	0	-0.004325	-0.000003356	-0.000119	0
259	Tren A9	LinDirHist	Max	0	0	0.000017	0.0001	0.000029	0
259	Tren A9	LinDirHist	Min	0	0	-0.004237	-0.000002186	-0.000121	0
260	Tren A9	LinDirHist	Max	0	0	0.000017	0.000127	0.00002	0
260	Tren A9	LinDirHist	Min	0	0	-0.004114	-0.000001476	-0.000124	0
261	Tren A9	LinDirHist	Max	0	0	0.000016	0.000152	0.000011	0
261	Tren A9	LinDirHist	Min	0	0	-0.003958	-0.000001248	-0.000126	0
262	Tren A9	LinDirHist	Max	0	0	0.000015	0.000178	0.000001909	0
262	Tren A9	LinDirHist	Min	0	0	-0.003773	-0.000001162	-0.000127	0
263	Tren A9	LinDirHist	Max	0	0	0.000014	0.0002	0.000001826	0
263	Tren A9	LinDirHist	Min	0	0	-0.003561	-0.000001162	-0.000123	0
264	Tren A9	LinDirHist	Max	0	0	0.000014	0.000219	0.000001673	0
264	Tren A9	LinDirHist	Min	0	0	-0.003332	-0.000001153	-0.000119	0
265	Tren A9	LinDirHist	Max	0	0	0.000012	0.000239	0.000001572	0
265	Tren A9	LinDirHist	Min	0	0	-0.003078	-0.000001197	-0.000119	0
266	Tren A9	LinDirHist	Max	0	0	0.00001	0.00025	0.000001429	0
266	Tren A9	LinDirHist	Min	0	0	-0.002817	-0.000001146	-0.000114	0
267	Tren A9	LinDirHist	Max	0	0	0.000009289	0.000257	0.000001188	0
267	Tren A9	LinDirHist	Min	0	0	-0.002537	-0.000001015	-0.000117	0
268	Tren A9	LinDirHist	Max	0	0	0.0000081	0.000269	0.000001174	0
268	Tren A9	LinDirHist	Min	0	0	-0.002227	-0.000001111	-0.000113	0
269	Tren A9	LinDirHist	Max	0	0	0.000006974	0.000262	0.000001003	0
269	Tren A9	LinDirHist	Min	0	0	-0.001946	-0.00000109	-0.0001	0
270	Tren A9	LinDirHist	Max	0	0	0.000006715	0.000255	8.912E-07	0
270	Tren A9	LinDirHist	Min	0	0	-0.001644	-9.659E-07	-0.000106	0
271	Tren A9	LinDirHist	Max	0	0	0.00000529	0.000254	0.000000935	0
271	Tren A9	LinDirHist	Min	0	0	-0.001325	-0.00000108	-0.000093	0
272	Tren A9	LinDirHist	Max	0	0	0.000004133	0.000222	6.804E-07	0
272	Tren A9	LinDirHist	Min	0	0	-0.001091	-9.819E-07	-0.000074	0
273	Tren A9	LinDirHist	Max	0	0	0.000003965	0.000201	0.000000587	0
273	Tren A9	LinDirHist	Min	0	0	-0.000819	-8.144E-07	-0.000083	0
274	Tren A9	LinDirHist	Max	0	0	0.000002313	0.000179	7.051E-07	0
274	Tren A9	LinDirHist	Min	0	0	-0.000575	-9.042E-07	-0.000052	0
275	Tren A9	LinDirHist	Max	0	0	0.00000298	0.000115	2.891E-07	0
275	Tren A9	LinDirHist	Min	0	0	-0.000481	-7.345E-07	-0.000038	0
276	Tren A9	LinDirHist	Max	0	0	0.000002906	0.000075	7.842E-07	0
276	Tren A9	LinDirHist	Min	0	0	-0.000268	-5.412E-07	-0.000063	0
277	Tren A9	LinDirHist	Max	0	0	0.000004525	0.000035	2.325E-07	0

277	Tren A9	LinDirHist	Min	0	0	-0.000051	-6.158E-07	-0.000013	0
278	Tren A9	LinDirHist	Max	0	0	0.00000109	0.000035	5.375E-07	0
278	Tren A9	LinDirHist	Min	0	0	-0.000074	-5.993E-07	-0.000067	0
279	Tren A9	LinDirHist	Max	0	0	7.416E-12	0.000002697	0.000083	0
279	Tren A9	LinDirHist	Min	0	0	-0.00013	-4.962E-07	-0.00000155	0
280	Tren A9	LinDirHist	Max	0	0	7.803E-08	1.157E-12	0.000054	0
280	Tren A9	LinDirHist	Min	0	0	-0.000316	-0.000105	-0.000005401	0
283	Tren A9	LinDirHist	Max	0	0	0.000005169	7.744E-13	0.000039	0
283	Tren A9	LinDirHist	Min	0	0	-0.000489	-0.000126	-0.000002905	0
347	Tren A9	LinDirHist	Max	0	0	0.000003468	1.181E-07	0.000024	0
347	Tren A9	LinDirHist	Min	0	0	-0.00055	-0.000175	-0.000011	0
378	Tren A9	LinDirHist	Max	0	0	3.513E-07	3.608E-07	0.000077	0
378	Tren A9	LinDirHist	Min	0	0	-0.000699	-0.000195	-0.000007777	0
379	Tren A9	LinDirHist	Max	0	0	0.000002115	1.352E-07	0.000059	0
379	Tren A9	LinDirHist	Min	0	0	-0.000921	-0.000209	-0.000009809	0
380	Tren A9	LinDirHist	Max	0	0	0.000001924	1.904E-07	0.000061	0
380	Tren A9	LinDirHist	Min	0	0	-0.001069	-0.000241	-0.000017	0
381	Tren A9	LinDirHist	Max	0	0	9.989E-07	3.673E-07	0.000089	0
381	Tren A9	LinDirHist	Min	0	0	-0.001287	-0.000249	-0.000016	0
383	Tren A9	LinDirHist	Max	0	0	0.000001738	2.113E-07	0.000073	0
383	Tren A9	LinDirHist	Min	0	0	-0.001523	-0.000256	-0.000019	0
388	Tren A9	LinDirHist	Max	0	0	0.000002466	3.304E-07	0.000081	0
388	Tren A9	LinDirHist	Min	0	0	-0.001716	-0.000272	-0.000025	0
389	Tren A9	LinDirHist	Max	0	0	0.000002236	0.000000452	0.000092	0
389	Tren A9	LinDirHist	Min	0	0	-0.001956	-0.000269	-0.000026	0
390	Tren A9	LinDirHist	Max	0	0	0.000002963	3.339E-07	0.000088	0
390	Tren A9	LinDirHist	Min	0	0	-0.002198	-0.000269	-0.000029	0
391	Tren A9	LinDirHist	Max	0	0	0.000003909	4.567E-07	0.000095	0
391	Tren A9	LinDirHist	Min	0	0	-0.002425	-0.000272	-0.000035	0
392	Tren A9	LinDirHist	Max	0	0	0.00000412	0.000000515	0.000096	0
392	Tren A9	LinDirHist	Min	0	0	-0.002668	-0.000261	-0.000039	0
393	Tren A9	LinDirHist	Max	0	0	0.000004966	4.255E-07	0.000095	0
393	Tren A9	LinDirHist	Min	0	0	-0.002894	-0.000254	-0.000045	0
394	Tren A9	LinDirHist	Max	0	0	0.000005805	5.161E-07	0.000097	0
394	Tren A9	LinDirHist	Min	0	0	-0.003112	-0.000245	-0.000051	0
448	Tren A9	LinDirHist	Max	0	0	0.000006257	5.242E-07	0.000093	0
448	Tren A9	LinDirHist	Min	0	0	-0.003331	-0.000227	-0.000057	0
449	Tren A9	LinDirHist	Max	0	0	0.000007179	4.364E-07	0.000092	0
449	Tren A9	LinDirHist	Min	0	0	-0.003533	-0.00021	-0.000066	0
450	Tren A9	LinDirHist	Max	0	0	0.000008182	4.542E-07	0.00009	0
450	Tren A9	LinDirHist	Min	0	0	-0.00372	-0.000189	-0.000073	0
451	Tren A9	LinDirHist	Max	0	0	0.000009183	4.421E-07	0.000087	0
451	Tren A9	LinDirHist	Min	0	0	-0.003888	-0.000165	-0.000079	0
452	Tren A9	LinDirHist	Max	0	0	0.000011	4.182E-07	0.000084	0
452	Tren A9	LinDirHist	Min	0	0	-0.004032	-0.000143	-0.000087	0
455	Tren A9	LinDirHist	Max	0	0	0.000012	4.407E-07	0.00008	0
455	Tren A9	LinDirHist	Min	0	0	-0.004156	-0.000118	-0.000094	0
516	Tren A9	LinDirHist	Max	0	0	0.000013	3.926E-07	0.000075	0
516	Tren A9	LinDirHist	Min	0	0	-0.004262	-0.000091	-0.0001	0
517	Tren A9	LinDirHist	Max	0	0	0.000015	3.218E-07	0.00007	0

517	Tren A9	LinDirHist	Min	0	0	-0.004344	-0.000064	-0.000106	0
518	Tren A9	LinDirHist	Max	0	0	0.000016	0.000000282	0.000063	0
518	Tren A9	LinDirHist	Min	0	0	-0.004398	-0.000039	-0.000111	0
519	Tren A9	LinDirHist	Max	0	0	0.000017	0.000004765	0.000057	0
519	Tren A9	LinDirHist	Min	0	0	-0.00442	-0.000017	-0.000113	0
527	Tren A9	LinDirHist	Max	0	0	0.000018	0.000032	0.00005	0
527	Tren A9	LinDirHist	Min	0	0	-0.004414	-0.000007078	-0.000116	0
528	Tren A9	LinDirHist	Max	0	0	0.000018	0.000059	0.000041	0
528	Tren A9	LinDirHist	Min	0	0	-0.004374	-0.000004323	-0.000119	0
529	Tren A9	LinDirHist	Max	0	0	0.000018	0.000088	0.000034	0
529	Tren A9	LinDirHist	Min	0	0	-0.004302	-0.000002829	-0.00012	0
531	Tren A9	LinDirHist	Max	0	0	0.000018	0.000116	0.000024	0
531	Tren A9	LinDirHist	Min	0	0	-0.004197	-0.000001888	-0.000121	0
532	Tren A9	LinDirHist	Max	0	0	0.000017	0.000142	0.000015	0
532	Tren A9	LinDirHist	Min	0	0	-0.004059	-0.000001365	-0.000122	0
533	Tren A9	LinDirHist	Max	0	0	0.000017	0.000168	0.000007074	0
533	Tren A9	LinDirHist	Min	0	0	-0.003888	-0.00000127	-0.00012	0
539	Tren A9	LinDirHist	Max	0	0	0.000016	0.000193	0.000001905	0
539	Tren A9	LinDirHist	Min	0	0	-0.003689	-0.000001318	-0.000121	0
540	Tren A9	LinDirHist	Max	0	0	0.000015	0.000213	0.000001791	0
540	Tren A9	LinDirHist	Min	0	0	-0.003468	-0.000001229	-0.000119	0
541	Tren A9	LinDirHist	Max	0	0	0.000014	0.000235	0.000001701	0
541	Tren A9	LinDirHist	Min	0	0	-0.003222	-0.000001234	-0.000121	0
542	Tren A9	LinDirHist	Max	0	0	0.000012	0.00025	0.000001642	0
542	Tren A9	LinDirHist	Min	0	0	-0.002959	-0.000001212	-0.00012	0
543	Tren A9	LinDirHist	Max	0	0	0.00001	0.000257	0.000001393	0
543	Tren A9	LinDirHist	Min	0	0	-0.002692	-0.000001049	-0.000116	0
544	Tren A9	LinDirHist	Max	0	0	0.000008938	0.000268	0.000001215	0
544	Tren A9	LinDirHist	Min	0	0	-0.002392	-0.000001004	-0.000117	0
545	Tren A9	LinDirHist	Max	0	0	0.000007388	0.000271	0.000001113	0
545	Tren A9	LinDirHist	Min	0	0	-0.002091	-0.000001087	-0.000104	0
546	Tren A9	LinDirHist	Max	0	0	0.000006366	0.00026	8.919E-07	0
546	Tren A9	LinDirHist	Min	0	0	-0.00181	-9.899E-07	-0.0001	0
547	Tren A9	LinDirHist	Max	0	0	0.000005611	0.00026	8.386E-07	0
547	Tren A9	LinDirHist	Min	0	0	-0.001489	-9.792E-07	-0.000101	0
548	Tren A9	LinDirHist	Max	0	0	0.0000042	0.000244	0.000000743	0
548	Tren A9	LinDirHist	Min	0	0	-0.001211	-0.000001059	-0.000074	0
549	Tren A9	LinDirHist	Max	0	0	0.0000046	0.000213	5.546E-07	0
549	Tren A9	LinDirHist	Min	0	0	-0.000975	-0.000000839	-0.000078	0
550	Tren A9	LinDirHist	Max	0	0	0.000003652	0.000197	7.342E-07	0
550	Tren A9	LinDirHist	Min	0	0	-0.000695	-9.038E-07	-0.000072	0
551	Tren A9	LinDirHist	Max	0	0	0.000001957	0.000153	4.777E-07	0
551	Tren A9	LinDirHist	Min	0	0	-0.000545	-9.179E-07	-0.000026	0
552	Tren A9	LinDirHist	Max	0	0	0.000003997	0.000093	0.000000415	0
552	Tren A9	LinDirHist	Min	0	0	-0.000409	-6.037E-07	-0.000061	0
553	Tren A9	LinDirHist	Max	0	0	0.000001379	0.000053	7.752E-07	0
553	Tren A9	LinDirHist	Min	0	0	-0.000198	-6.598E-07	-0.000042	0
556	Tren A9	LinDirHist	Max	0	0	9.401E-12	0.000003254	0.000093	0
556	Tren A9	LinDirHist	Min	0	0	-0.000153	-2.322E-12	-0.000001725	0
557	Tren A9	LinDirHist	Max	0	0	0.000003769	4.573E-07	0.000096	0

Apéndice Z1				Flecha Dinámica Tren A9						V= 250 km/h
557	Tren A9	LinDirHist	Min	0	0	-0.002537	-0.000261	-0.000042	0	