

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 A8	LinDirHis	Max	0	0	6.268E-13	0.000006249	0.000025	0
140	Tren A8	LinDirHis	Min	0	0	-0.000287	-0.000002389	-4.112E-13	0
229	Tren A8	LinDirHis	Max	0	0	2.696E-12	2.194E-08	2.275E-13	0
229	Tren A8	LinDirHis	Min	0	0	-0.000252	-0.000068	-0.00002	0
230	Tren A8	LinDirHis	Max	0	0	2.796E-13	3.143E-07	0.000001069	0
230	Tren A8	LinDirHis	Min	0	0	-0.000265	-0.000034	-0.000018	0
231	Tren A8	LinDirHis	Max	0	0	5.78E-13	4.223E-13	0.000019	0
231	Tren A8	LinDirHis	Min	0	0	-0.000214	-0.000089	-0.000013	0
232	Tren A8	LinDirHis	Max	0	0	0.000002783	4.584E-13	0.000051	0
232	Tren A8	LinDirHis	Min	0	0	-0.00036	-0.000104	-0.000005466	0
233	Tren A8	LinDirHis	Max	0	0	0.000004928	5.875E-13	0.000025	0
233	Tren A8	LinDirHis	Min	0	0	-0.000479	-0.000135	-0.000011	0
234	Tren A8	LinDirHis	Max	0	0	0.000001469	3.575E-07	0.000054	0
234	Tren A8	LinDirHis	Min	0	0	-0.000538	-0.000178	-0.000014	0
235	Tren A8	LinDirHis	Max	0	0	0.00000104	2.247E-07	0.000069	0
235	Tren A8	LinDirHis	Min	0	0	-0.000753	-0.000181	-0.000009872	0
236	Tren A8	LinDirHis	Max	0	0	0.000002773	8.868E-08	0.000052	0
236	Tren A8	LinDirHis	Min	0	0	-0.000918	-0.000206	-0.000015	0
237	Tren A8	LinDirHis	Max	0	0	0.000001499	3.463E-07	0.000074	0
237	Tren A8	LinDirHis	Min	0	0	-0.001078	-0.00023	-0.000018	0
238	Tren A8	LinDirHis	Max	0	0	0.000001005	2.761E-07	0.000075	0
238	Tren A8	LinDirHis	Min	0	0	-0.001322	-0.000228	-0.000017	0
239	Tren A8	LinDirHis	Max	0	0	0.000002426	2.129E-07	0.00007	0
239	Tren A8	LinDirHis	Min	0	0	-0.001512	-0.000244	-0.000025	0
240	Tren A8	LinDirHis	Max	0	0	0.000002252	4.129E-07	0.000087	0
240	Tren A8	LinDirHis	Min	0	0	-0.001712	-0.000252	-0.00003	0
241	Tren A8	LinDirHis	Max	0	0	0.00000216	3.897E-07	0.000088	0
241	Tren A8	LinDirHis	Min	0	0	-0.001954	-0.000247	-0.000032	0
242	Tren A8	LinDirHis	Max	0	0	0.000003356	3.436E-07	0.000086	0
242	Tren A8	LinDirHis	Min	0	0	-0.002165	-0.000251	-0.000036	0
244	Tren A8	LinDirHis	Max	0	0	0.00000433	4.491E-07	0.000091	0
244	Tren A8	LinDirHis	Min	0	0	-0.002607	-0.000236	-0.000042	0
245	Tren A8	LinDirHis	Max	0	0	0.000005443	0.000000419	0.00009	0
245	Tren A8	LinDirHis	Min	0	0	-0.002817	-0.00023	-0.000051	0
246	Tren A8	LinDirHis	Max	0	0	0.000005862	4.748E-07	0.000091	0
246	Tren A8	LinDirHis	Min	0	0	-0.003025	-0.000216	-0.000054	0
247	Tren A8	LinDirHis	Max	0	0	0.000006675	4.454E-07	0.00009	0
247	Tren A8	LinDirHis	Min	0	0	-0.003222	-0.000199	-0.000063	0
248	Tren A8	LinDirHis	Max	0	0	0.000007807	4.027E-07	0.000094	0
248	Tren A8	LinDirHis	Min	0	0	-0.003409	-0.000185	-0.000072	0
249	Tren A8	LinDirHis	Max	0	0	0.000008624	4.318E-07	0.000091	0
249	Tren A8	LinDirHis	Min	0	0	-0.003578	-0.000164	-0.000077	0
250	Tren A8	LinDirHis	Max	0	0	0.000009678	4.083E-07	0.000086	0
250	Tren A8	LinDirHis	Min	0	0	-0.003723	-0.000143	-0.000081	0
251	Tren A8	LinDirHis	Max	0	0	0.000012	4.285E-07	0.000083	0
251	Tren A8	LinDirHis	Min	0	0	-0.003848	-0.000122	-0.000086	0
252	Tren A8	LinDirHis	Max	0	0	0.000014	4.352E-07	0.000078	0

252	Tren A8	LinDirHis	Min	0	0	-0.003958	-0.000098	-0.000095	0
253	Tren A8	LinDirHis	Max	0	0	0.000015	0.000000373	0.000071	0
253	Tren A8	LinDirHis	Min	0	0	-0.004049	-0.000072	-0.0001	0
254	Tren A8	LinDirHis	Max	0	0	0.000016	0.000000317	0.000067	0
254	Tren A8	LinDirHis	Min	0	0	-0.004108	-0.000048	-0.000104	0
255	Tren A8	LinDirHis	Max	0	0	0.000016	2.594E-07	0.000063	0
255	Tren A8	LinDirHis	Min	0	0	-0.004142	-0.000025	-0.000109	0
256	Tren A8	LinDirHis	Max	0	0	0.000017	0.000017	0.000058	0
256	Tren A8	LinDirHis	Min	0	0	-0.00415	-0.000009819	-0.000112	0
257	Tren A8	LinDirHis	Max	0	0	0.000017	0.000042	0.000048	0
257	Tren A8	LinDirHis	Min	0	0	-0.004122	-0.000005484	-0.000112	0
258	Tren A8	LinDirHis	Max	0	0	0.000017	0.000068	0.00004	0
258	Tren A8	LinDirHis	Min	0	0	-0.004064	-0.000003357	-0.000114	0
259	Tren A8	LinDirHis	Max	0	0	0.000018	0.000095	0.000032	0
259	Tren A8	LinDirHis	Min	0	0	-0.003981	-0.000002067	-0.000119	0
260	Tren A8	LinDirHis	Max	0	0	0.000018	0.00012	0.000021	0
260	Tren A8	LinDirHis	Min	0	0	-0.003875	-0.000001513	-0.000121	0
261	Tren A8	LinDirHis	Max	0	0	0.000017	0.000144	0.000014	0
261	Tren A8	LinDirHis	Min	0	0	-0.003732	-0.00000117	-0.000118	0
262	Tren A8	LinDirHis	Max	0	0	0.000016	0.000168	0.000007343	0
262	Tren A8	LinDirHis	Min	0	0	-0.003561	-0.000001164	-0.000119	0
263	Tren A8	LinDirHis	Max	0	0	0.000015	0.000188	0.000001897	0
263	Tren A8	LinDirHis	Min	0	0	-0.003367	-0.000001179	-0.000114	0
264	Tren A8	LinDirHis	Max	0	0	0.000014	0.000206	0.000001744	0
264	Tren A8	LinDirHis	Min	0	0	-0.003145	-0.000001135	-0.000112	0
265	Tren A8	LinDirHis	Max	0	0	0.000012	0.000225	0.000001621	0
265	Tren A8	LinDirHis	Min	0	0	-0.002898	-0.000001171	-0.000113	0
266	Tren A8	LinDirHis	Max	0	0	0.00001	0.000235	0.000001434	0
266	Tren A8	LinDirHis	Min	0	0	-0.002647	-0.000001122	-0.000112	0
267	Tren A8	LinDirHis	Max	0	0	0.000009309	0.000241	0.000001178	0
267	Tren A8	LinDirHis	Min	0	0	-0.002386	-9.935E-07	-0.000114	0
268	Tren A8	LinDirHis	Max	0	0	0.000008127	0.000253	0.000001175	0
268	Tren A8	LinDirHis	Min	0	0	-0.002094	-0.000001064	-0.000109	0
269	Tren A8	LinDirHis	Max	0	0	0.000006876	0.000246	0.00000101	0
269	Tren A8	LinDirHis	Min	0	0	-0.00183	-0.000001055	-0.000095	0
270	Tren A8	LinDirHis	Max	0	0	0.000006274	0.00024	8.687E-07	0
270	Tren A8	LinDirHis	Min	0	0	-0.001549	-9.249E-07	-0.000098	0
271	Tren A8	LinDirHis	Max	0	0	0.000004856	0.000239	8.664E-07	0
271	Tren A8	LinDirHis	Min	0	0	-0.001248	-0.00000102	-0.000085	0
272	Tren A8	LinDirHis	Max	0	0	0.000004267	0.000209	6.183E-07	0
272	Tren A8	LinDirHis	Min	0	0	-0.001025	-9.139E-07	-0.000068	0
273	Tren A8	LinDirHis	Max	0	0	0.000004314	0.000189	6.231E-07	0
273	Tren A8	LinDirHis	Min	0	0	-0.000772	-8.005E-07	-0.000079	0
274	Tren A8	LinDirHis	Max	0	0	0.00000239	0.000168	6.663E-07	0
274	Tren A8	LinDirHis	Min	0	0	-0.000541	-9.251E-07	-0.000051	0
275	Tren A8	LinDirHis	Max	0	0	0.00000302	0.000108	0.000000298	0
275	Tren A8	LinDirHis	Min	0	0	-0.000452	-7.186E-07	-0.000037	0
276	Tren A8	LinDirHis	Max	0	0	0.000002879	0.000071	0.000000779	0
276	Tren A8	LinDirHis	Min	0	0	-0.000252	-5.374E-07	-0.000058	0
277	Tren A8	LinDirHis	Max	0	0	0.00000509	0.00003	0.000002679	0

277	Tren A8	LinDirHis	Min	0	0	-0.000059	-6.164E-07	-0.000012	0
278	Tren A8	LinDirHis	Max	0	0	0.000001378	0.000034	5.324E-07	0
278	Tren A8	LinDirHis	Min	0	0	-0.000081	-6.132E-07	-0.000048	0
279	Tren A8	LinDirHis	Max	0	0	3.574E-13	0.000002309	0.000084	0
279	Tren A8	LinDirHis	Min	0	0	-0.00014	-8.815E-14	-0.000001379	0
280	Tren A8	LinDirHis	Max	0	0	7.01E-08	5.377E-13	0.000052	0
280	Tren A8	LinDirHis	Min	0	0	-0.000287	-0.000099	-0.000004905	0
283	Tren A8	LinDirHis	Max	0	0	0.00000515	4.731E-13	0.000037	0
283	Tren A8	LinDirHis	Min	0	0	-0.000447	-0.000119	-0.000002098	0
347	Tren A8	LinDirHis	Max	0	0	0.000003318	1.246E-07	0.000022	0
347	Tren A8	LinDirHis	Min	0	0	-0.000509	-0.000165	-0.000011	0
378	Tren A8	LinDirHis	Max	0	0	4.576E-07	3.362E-07	0.000071	0
378	Tren A8	LinDirHis	Min	0	0	-0.000655	-0.000184	-0.000007587	0
379	Tren A8	LinDirHis	Max	0	0	0.000001888	1.524E-07	0.000055	0
379	Tren A8	LinDirHis	Min	0	0	-0.000865	-0.000196	-0.000009322	0
380	Tren A8	LinDirHis	Max	0	0	0.000002368	1.683E-07	0.000058	0
380	Tren A8	LinDirHis	Min	0	0	-0.001005	-0.000227	-0.000018	0
381	Tren A8	LinDirHis	Max	0	0	0.000001009	3.359E-07	0.000086	0
381	Tren A8	LinDirHis	Min	0	0	-0.001211	-0.000235	-0.000017	0
383	Tren A8	LinDirHis	Max	0	0	0.000001969	2.348E-07	0.00007	0
383	Tren A8	LinDirHis	Min	0	0	-0.001429	-0.000241	-0.00002	0
388	Tren A8	LinDirHis	Max	0	0	0.000002724	3.089E-07	0.000078	0
388	Tren A8	LinDirHis	Min	0	0	-0.001609	-0.000256	-0.000025	0
389	Tren A8	LinDirHis	Max	0	0	0.000002261	4.031E-07	0.000088	0
389	Tren A8	LinDirHis	Min	0	0	-0.001841	-0.000253	-0.000025	0
390	Tren A8	LinDirHis	Max	0	0	0.000003059	0.000000323	0.000082	0
390	Tren A8	LinDirHis	Min	0	0	-0.002074	-0.000253	-0.00003	0
391	Tren A8	LinDirHis	Max	0	0	0.000003845	4.278E-07	0.000088	0
391	Tren A8	LinDirHis	Min	0	0	-0.002288	-0.000255	-0.000035	0
392	Tren A8	LinDirHis	Max	0	0	0.000004038	4.936E-07	0.000091	0
392	Tren A8	LinDirHis	Min	0	0	-0.002516	-0.000245	-0.000039	0
393	Tren A8	LinDirHis	Max	0	0	0.00000482	4.235E-07	0.000093	0
393	Tren A8	LinDirHis	Min	0	0	-0.002731	-0.000238	-0.000045	0
394	Tren A8	LinDirHis	Max	0	0	0.000005529	5.097E-07	0.000094	0
394	Tren A8	LinDirHis	Min	0	0	-0.002931	-0.00023	-0.00005	0
448	Tren A8	LinDirHis	Max	0	0	0.000005837	5.276E-07	0.000091	0
448	Tren A8	LinDirHis	Min	0	0	-0.003131	-0.000213	-0.000054	0
449	Tren A8	LinDirHis	Max	0	0	0.000006586	4.573E-07	0.00009	0
449	Tren A8	LinDirHis	Min	0	0	-0.003319	-0.000198	-0.000062	0
450	Tren A8	LinDirHis	Max	0	0	0.000007919	4.724E-07	0.000088	0
450	Tren A8	LinDirHis	Min	0	0	-0.0035	-0.000178	-0.000072	0
451	Tren A8	LinDirHis	Max	0	0	0.000009382	4.718E-07	0.000084	0
451	Tren A8	LinDirHis	Min	0	0	-0.003667	-0.000156	-0.000077	0
452	Tren A8	LinDirHis	Max	0	0	0.000011	4.339E-07	0.000083	0
452	Tren A8	LinDirHis	Min	0	0	-0.003806	-0.000135	-0.000082	0
455	Tren A8	LinDirHis	Max	0	0	0.000013	4.327E-07	0.00008	0
455	Tren A8	LinDirHis	Min	0	0	-0.003927	-0.000112	-0.00009	0
516	Tren A8	LinDirHis	Max	0	0	0.000014	4.023E-07	0.000077	0
516	Tren A8	LinDirHis	Min	0	0	-0.004024	-0.000086	-0.000094	0
517	Tren A8	LinDirHis	Max	0	0	0.000014	3.381E-07	0.00007	0

517	Tren A8	LinDirHis	Min	0	0	-0.00409	-0.00006	-0.000096	0
518	Tren A8	LinDirHis	Max	0	0	0.000015	2.873E-07	0.000063	0
518	Tren A8	LinDirHis	Min	0	0	-0.004131	-0.000036	-0.0001	0
519	Tren A8	LinDirHis	Max	0	0	0.000017	0.000005014	0.000057	0
519	Tren A8	LinDirHis	Min	0	0	-0.004149	-0.000016	-0.000107	0
527	Tren A8	LinDirHis	Max	0	0	0.000017	0.00003	0.000048	0
527	Tren A8	LinDirHis	Min	0	0	-0.00415	-0.000006715	-0.000111	0
528	Tren A8	LinDirHis	Max	0	0	0.000018	0.000056	0.000041	0
528	Tren A8	LinDirHis	Min	0	0	-0.004112	-0.000004459	-0.000112	0
529	Tren A8	LinDirHis	Max	0	0	0.000018	0.000083	0.000036	0
529	Tren A8	LinDirHis	Min	0	0	-0.004047	-0.000002672	-0.000115	0
531	Tren A8	LinDirHis	Max	0	0	0.000017	0.000109	0.000028	0
531	Tren A8	LinDirHis	Min	0	0	-0.003952	-0.000001868	-0.000115	0
532	Tren A8	LinDirHis	Max	0	0	0.000016	0.000134	0.000018	0
532	Tren A8	LinDirHis	Min	0	0	-0.003818	-0.000001396	-0.000114	0
533	Tren A8	LinDirHis	Max	0	0	0.000016	0.000158	0.00001	0
533	Tren A8	LinDirHis	Min	0	0	-0.003655	-0.000001297	-0.000114	0
539	Tren A8	LinDirHis	Max	0	0	0.000016	0.000182	0.000001787	0
539	Tren A8	LinDirHis	Min	0	0	-0.003467	-0.000001284	-0.000115	0
540	Tren A8	LinDirHis	Max	0	0	0.000015	0.000201	0.000001676	0
540	Tren A8	LinDirHis	Min	0	0	-0.003267	-0.000001155	-0.000114	0
541	Tren A8	LinDirHis	Max	0	0	0.000014	0.000221	0.000001635	0
541	Tren A8	LinDirHis	Min	0	0	-0.003036	-0.000001185	-0.000113	0
542	Tren A8	LinDirHis	Max	0	0	0.000012	0.000236	0.000001584	0
542	Tren A8	LinDirHis	Min	0	0	-0.002789	-0.000001199	-0.00011	0
543	Tren A8	LinDirHis	Max	0	0	0.00000984	0.000242	0.000001353	0
543	Tren A8	LinDirHis	Min	0	0	-0.002539	-0.00000102	-0.000106	0
544	Tren A8	LinDirHis	Max	0	0	0.000008558	0.000252	0.000001185	0
544	Tren A8	LinDirHis	Min	0	0	-0.002252	-0.00000104	-0.000108	0
545	Tren A8	LinDirHis	Max	0	0	0.000006903	0.000255	0.000001066	0
545	Tren A8	LinDirHis	Min	0	0	-0.001964	-0.000001161	-0.000097	0
546	Tren A8	LinDirHis	Max	0	0	0.000006762	0.000245	8.347E-07	0
546	Tren A8	LinDirHis	Min	0	0	-0.001699	-0.000001031	-0.000096	0
547	Tren A8	LinDirHis	Max	0	0	0.000006169	0.000245	9.044E-07	0
547	Tren A8	LinDirHis	Min	0	0	-0.001401	-0.000001038	-0.000098	0
548	Tren A8	LinDirHis	Max	0	0	0.00000444	0.00023	8.037E-07	0
548	Tren A8	LinDirHis	Min	0	0	-0.001145	-0.000001104	-0.000072	0
549	Tren A8	LinDirHis	Max	0	0	0.000004423	0.000201	5.549E-07	0
549	Tren A8	LinDirHis	Min	0	0	-0.000922	-8.958E-07	-0.000073	0
550	Tren A8	LinDirHis	Max	0	0	0.000003458	0.000186	7.681E-07	0
550	Tren A8	LinDirHis	Min	0	0	-0.000657	-8.308E-07	-0.000068	0
551	Tren A8	LinDirHis	Max	0	0	0.00000198	0.000144	4.595E-07	0
551	Tren A8	LinDirHis	Min	0	0	-0.000505	-8.436E-07	-0.000024	0
552	Tren A8	LinDirHis	Max	0	0	0.000003964	0.000088	4.074E-07	0
552	Tren A8	LinDirHis	Min	0	0	-0.000377	-5.667E-07	-0.000056	0
553	Tren A8	LinDirHis	Max	0	0	0.000001364	0.000052	7.685E-07	0
553	Tren A8	LinDirHis	Min	0	0	-0.000179	-6.492E-07	-0.00004	0
556	Tren A8	LinDirHis	Max	0	0	2.718E-13	0.00000463	0.000093	0
556	Tren A8	LinDirHis	Min	0	0	-0.000163	-6.204E-14	-0.000001538	0
557	Tren A8	LinDirHis	Max	0	0	0.000003552	4.583E-07	0.000093	0

Apéndice U1				Flecha Dinámica Tren A8						V= 230 km/h
557	Tren A8	LinDirHis	Min	0	0	-0.002382	-0.000246	-0.000038	0	