

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	4.119E-12	0.000004062	0.000024	0
140	Tren A7	LinDirHis	Min	0	0	-0.000263	-0.00000111	-7.572E-13	0
229	Tren A7	LinDirHis	Max	0	0	3.426E-12	2.194E-08	1.373E-12	0
229	Tren A7	LinDirHis	Min	0	0	-0.00024	-0.000066	-0.00002	0
230	Tren A7	LinDirHis	Max	0	0	4.566E-12	2.907E-07	3.011E-13	0
230	Tren A7	LinDirHis	Min	0	0	-0.000251	-0.000032	-0.000015	0
231	Tren A7	LinDirHis	Max	0	0	6.233E-13	7.902E-13	0.00002	0
231	Tren A7	LinDirHis	Min	0	0	-0.000207	-0.000087	-0.000009384	0
232	Tren A7	LinDirHis	Max	0	0	0.000002247	5.657E-13	0.000048	0
232	Tren A7	LinDirHis	Min	0	0	-0.000353	-0.000101	-0.000004012	0
233	Tren A7	LinDirHis	Max	0	0	0.000003691	3.454E-13	0.000022	0
233	Tren A7	LinDirHis	Min	0	0	-0.000464	-0.000132	-0.000007134	0
234	Tren A7	LinDirHis	Max	0	0	0.000001242	2.664E-07	0.00005	0
234	Tren A7	LinDirHis	Min	0	0	-0.000523	-0.000173	-0.000011	0
235	Tren A7	LinDirHis	Max	0	0	6.076E-07	0.000000208	0.000066	0
235	Tren A7	LinDirHis	Min	0	0	-0.000731	-0.000177	-0.000007958	0
236	Tren A7	LinDirHis	Max	0	0	0.000002058	7.442E-08	0.000049	0
236	Tren A7	LinDirHis	Min	0	0	-0.000898	-0.000201	-0.000013	0
237	Tren A7	LinDirHis	Max	0	0	0.000001108	2.573E-07	0.000071	0
237	Tren A7	LinDirHis	Min	0	0	-0.001052	-0.000225	-0.000015	0
238	Tren A7	LinDirHis	Max	0	0	8.683E-07	1.986E-07	0.000075	0
238	Tren A7	LinDirHis	Min	0	0	-0.001289	-0.000223	-0.000016	0
239	Tren A7	LinDirHis	Max	0	0	0.000000198	1.407E-07	0.000067	0
239	Tren A7	LinDirHis	Min	0	0	-0.001478	-0.000239	-0.00002	0
240	Tren A7	LinDirHis	Max	0	0	0.000001927	3.002E-07	0.00008	0
240	Tren A7	LinDirHis	Min	0	0	-0.001671	-0.000246	-0.000021	0
241	Tren A7	LinDirHis	Max	0	0	0.000002041	2.957E-07	0.00008	0
241	Tren A7	LinDirHis	Min	0	0	-0.001904	-0.00024	-0.000023	0
242	Tren A7	LinDirHis	Max	0	0	0.000000282	2.726E-07	0.000079	0
242	Tren A7	LinDirHis	Min	0	0	-0.002112	-0.000244	-0.000031	0
244	Tren A7	LinDirHis	Max	0	0	0.000003193	3.644E-07	0.000084	0
244	Tren A7	LinDirHis	Min	0	0	-0.002546	-0.00023	-0.000036	0
245	Tren A7	LinDirHis	Max	0	0	0.000004122	3.499E-07	0.000085	0
245	Tren A7	LinDirHis	Min	0	0	-0.002747	-0.000225	-0.000042	0
246	Tren A7	LinDirHis	Max	0	0	0.000004751	4.128E-07	0.000086	0
246	Tren A7	LinDirHis	Min	0	0	-0.002953	-0.000211	-0.000046	0
247	Tren A7	LinDirHis	Max	0	0	0.000000542	3.468E-07	0.000081	0
247	Tren A7	LinDirHis	Min	0	0	-0.003145	-0.000195	-0.000054	0
248	Tren A7	LinDirHis	Max	0	0	0.000000642	3.126E-07	0.000083	0
248	Tren A7	LinDirHis	Min	0	0	-0.003323	-0.000181	-0.00006	0
249	Tren A7	LinDirHis	Max	0	0	0.0000007278	0.000000035	0.00008	0
249	Tren A7	LinDirHis	Min	0	0	-0.003488	-0.00016	-0.000066	0
250	Tren A7	LinDirHis	Max	0	0	0.000000859	0.0000000351	0.000077	0
250	Tren A7	LinDirHis	Min	0	0	-0.003635	-0.00014	-0.000072	0
251	Tren A7	LinDirHis	Max	0	0	0.00001	3.486E-07	0.000074	0
251	Tren A7	LinDirHis	Min	0	0	-0.003764	-0.00012	-0.000077	0
252	Tren A7	LinDirHis	Max	0	0	0.000011	3.531E-07	0.000069	0

252	Tren A7	LinDirHis	Min	0	0	-0.003873	-0.000095	-0.000081	0
253	Tren A7	LinDirHis	Max	0	0	0.000012	3.047E-07	0.000065	0
253	Tren A7	LinDirHis	Min	0	0	-0.00396	-0.00007	-0.000086	0
254	Tren A7	LinDirHis	Max	0	0	0.000013	2.549E-07	0.000057	0
254	Tren A7	LinDirHis	Min	0	0	-0.004019	-0.000046	-0.000091	0
255	Tren A7	LinDirHis	Max	0	0	0.000013	1.913E-07	0.00005	0
255	Tren A7	LinDirHis	Min	0	0	-0.004044	-0.000023	-0.000094	0
256	Tren A7	LinDirHis	Max	0	0	0.000013	0.000015	0.000045	0
256	Tren A7	LinDirHis	Min	0	0	-0.004046	-0.000008165	-0.000097	0
257	Tren A7	LinDirHis	Max	0	0	0.000013	0.00004	0.000037	0
257	Tren A7	LinDirHis	Min	0	0	-0.00402	-0.000004482	-0.0001	0
258	Tren A7	LinDirHis	Max	0	0	0.000013	0.000066	0.00003	0
258	Tren A7	LinDirHis	Min	0	0	-0.003966	-0.000002586	-0.000101	0
259	Tren A7	LinDirHis	Max	0	0	0.000014	0.000092	0.000023	0
259	Tren A7	LinDirHis	Min	0	0	-0.003885	-0.000001746	-0.000102	0
260	Tren A7	LinDirHis	Max	0	0	0.000014	0.000117	0.000015	0
260	Tren A7	LinDirHis	Min	0	0	-0.003778	-0.00000124	-0.000101	0
261	Tren A7	LinDirHis	Max	0	0	0.000013	0.00014	0.000006557	0
261	Tren A7	LinDirHis	Min	0	0	-0.003645	-9.265E-07	-0.0001	0
262	Tren A7	LinDirHis	Max	0	0	0.000013	0.000164	0.000001584	0
262	Tren A7	LinDirHis	Min	0	0	-0.003479	-9.725E-07	-0.000106	0
263	Tren A7	LinDirHis	Max	0	0	0.000012	0.000184	0.000001549	0
263	Tren A7	LinDirHis	Min	0	0	-0.003283	-9.829E-07	-0.000105	0
264	Tren A7	LinDirHis	Max	0	0	0.000012	0.000201	0.000001446	0
264	Tren A7	LinDirHis	Min	0	0	-0.003069	-0.000000896	-0.000104	0
265	Tren A7	LinDirHis	Max	0	0	0.00001	0.000219	0.000001396	0
265	Tren A7	LinDirHis	Min	0	0	-0.002831	-8.767E-07	-0.000104	0
266	Tren A7	LinDirHis	Max	0	0	0.000008622	0.000229	0.000001249	0
266	Tren A7	LinDirHis	Min	0	0	-0.002588	-8.923E-07	-0.000099	0
267	Tren A7	LinDirHis	Max	0	0	0.000007615	0.000236	0.000001026	0
267	Tren A7	LinDirHis	Min	0	0	-0.002332	-8.098E-07	-0.000101	0
268	Tren A7	LinDirHis	Max	0	0	0.000006516	0.000247	9.638E-07	0
268	Tren A7	LinDirHis	Min	0	0	-0.002047	-8.907E-07	-0.000097	0
269	Tren A7	LinDirHis	Max	0	0	0.000005554	0.000241	0.000000808	0
269	Tren A7	LinDirHis	Min	0	0	-0.001789	-8.742E-07	-0.000087	0
270	Tren A7	LinDirHis	Max	0	0	0.000005428	0.000235	7.142E-07	0
270	Tren A7	LinDirHis	Min	0	0	-0.00151	-7.687E-07	-0.000094	0
271	Tren A7	LinDirHis	Max	0	0	0.000004176	0.000233	7.714E-07	0
271	Tren A7	LinDirHis	Min	0	0	-0.001216	-8.837E-07	-0.000081	0
272	Tren A7	LinDirHis	Max	0	0	0.000003523	0.000204	5.449E-07	0
272	Tren A7	LinDirHis	Min	0	0	-0.001001	-0.000000741	-0.000066	0
273	Tren A7	LinDirHis	Max	0	0	0.000003589	0.000184	5.202E-07	0
273	Tren A7	LinDirHis	Min	0	0	-0.000749	-5.999E-07	-0.000075	0
274	Tren A7	LinDirHis	Max	0	0	0.000001872	0.000164	5.767E-07	0
274	Tren A7	LinDirHis	Min	0	0	-0.000527	-7.039E-07	-0.000046	0
275	Tren A7	LinDirHis	Max	0	0	0.000002314	0.000105	2.499E-07	0
275	Tren A7	LinDirHis	Min	0	0	-0.000438	-5.477E-07	-0.000034	0
276	Tren A7	LinDirHis	Max	0	0	0.000002275	0.000069	6.251E-07	0
276	Tren A7	LinDirHis	Min	0	0	-0.000246	-4.085E-07	-0.000053	0
277	Tren A7	LinDirHis	Max	0	0	0.000004003	0.00003	2.188E-07	0

277	Tren A7	LinDirHis	Min	0	0	-0.00006	-4.843E-07	-0.000011	0
278	Tren A7	LinDirHis	Max	0	0	9.924E-07	0.000033	4.183E-07	0
278	Tren A7	LinDirHis	Min	0	0	-0.000083	-4.624E-07	-0.000051	0
279	Tren A7	LinDirHis	Max	0	0	1.014E-12	0.000002308	0.000075	0
279	Tren A7	LinDirHis	Min	0	0	-0.000133	-3.794E-13	-0.000001379	0
280	Tren A7	LinDirHis	Max	0	0	7.01E-08	2.605E-13	0.000049	0
280	Tren A7	LinDirHis	Min	0	0	-0.000282	-0.000097	-0.000004674	0
283	Tren A7	LinDirHis	Max	0	0	0.000003469	1.918E-13	0.000036	0
283	Tren A7	LinDirHis	Min	0	0	-0.000438	-0.000116	-0.000002013	0
347	Tren A7	LinDirHis	Max	0	0	0.000002619	1.084E-07	0.000021	0
347	Tren A7	LinDirHis	Min	0	0	-0.000497	-0.00016	-0.000009039	0
378	Tren A7	LinDirHis	Max	0	0	3.373E-07	2.896E-07	0.000069	0
378	Tren A7	LinDirHis	Min	0	0	-0.000635	-0.000179	-0.00000601	0
379	Tren A7	LinDirHis	Max	0	0	0.000001416	1.212E-07	0.000053	0
379	Tren A7	LinDirHis	Min	0	0	-0.00084	-0.000191	-0.000006986	0
380	Tren A7	LinDirHis	Max	0	0	0.000001753	1.306E-07	0.000055	0
380	Tren A7	LinDirHis	Min	0	0	-0.000977	-0.000221	-0.000012	0
381	Tren A7	LinDirHis	Max	0	0	7.402E-07	2.472E-07	0.00008	0
381	Tren A7	LinDirHis	Min	0	0	-0.00118	-0.000229	-0.000012	0
383	Tren A7	LinDirHis	Max	0	0	0.000001679	1.902E-07	0.000066	0
383	Tren A7	LinDirHis	Min	0	0	-0.001398	-0.000235	-0.000016	0
388	Tren A7	LinDirHis	Max	0	0	0.000001696	2.499E-07	0.000072	0
388	Tren A7	LinDirHis	Min	0	0	-0.001576	-0.00025	-0.000021	0
389	Tren A7	LinDirHis	Max	0	0	0.000001739	3.686E-07	0.000083	0
389	Tren A7	LinDirHis	Min	0	0	-0.001795	-0.000247	-0.000022	0
390	Tren A7	LinDirHis	Max	0	0	0.00000238	2.752E-07	0.000078	0
390	Tren A7	LinDirHis	Min	0	0	-0.00202	-0.000247	-0.000026	0
391	Tren A7	LinDirHis	Max	0	0	0.000003164	3.566E-07	0.000084	0
391	Tren A7	LinDirHis	Min	0	0	-0.002228	-0.00025	-0.00003	0
392	Tren A7	LinDirHis	Max	0	0	0.000003277	3.582E-07	0.000085	0
392	Tren A7	LinDirHis	Min	0	0	-0.002453	-0.000239	-0.000032	0
393	Tren A7	LinDirHis	Max	0	0	0.000004022	3.199E-07	0.000085	0
393	Tren A7	LinDirHis	Min	0	0	-0.002664	-0.000233	-0.000038	0
394	Tren A7	LinDirHis	Max	0	0	0.000004483	3.636E-07	0.000086	0
394	Tren A7	LinDirHis	Min	0	0	-0.002867	-0.000225	-0.000043	0
448	Tren A7	LinDirHis	Max	0	0	0.000004591	4.133E-07	0.000082	0
448	Tren A7	LinDirHis	Min	0	0	-0.003068	-0.000208	-0.000048	0
449	Tren A7	LinDirHis	Max	0	0	0.000005195	3.734E-07	0.00008	0
449	Tren A7	LinDirHis	Min	0	0	-0.003249	-0.000193	-0.000056	0
450	Tren A7	LinDirHis	Max	0	0	0.000006059	3.881E-07	0.00008	0
450	Tren A7	LinDirHis	Min	0	0	-0.003418	-0.000174	-0.000062	0
451	Tren A7	LinDirHis	Max	0	0	0.000007075	3.857E-07	0.000076	0
451	Tren A7	LinDirHis	Min	0	0	-0.003573	-0.000152	-0.000067	0
452	Tren A7	LinDirHis	Max	0	0	0.000008518	3.516E-07	0.000074	0
452	Tren A7	LinDirHis	Min	0	0	-0.003707	-0.000131	-0.000071	0
455	Tren A7	LinDirHis	Max	0	0	0.00000995	3.509E-07	0.00007	0
455	Tren A7	LinDirHis	Min	0	0	-0.003823	-0.000108	-0.000075	0
516	Tren A7	LinDirHis	Max	0	0	0.000011	3.029E-07	0.000065	0
516	Tren A7	LinDirHis	Min	0	0	-0.00392	-0.000083	-0.000078	0
517	Tren A7	LinDirHis	Max	0	0	0.000012	0.000000271	0.00006	0

517	Tren A7	LinDirHis	Min	0	0	-0.003999	-0.000058	-0.000082	0
518	Tren A7	LinDirHis	Max	0	0	0.000013	2.419E-07	0.000051	0
518	Tren A7	LinDirHis	Min	0	0	-0.004043	-0.000035	-0.000087	0
519	Tren A7	LinDirHis	Max	0	0	0.000014	0.000003542	0.000047	0
519	Tren A7	LinDirHis	Min	0	0	-0.004059	-0.000013	-0.00009	0
527	Tren A7	LinDirHis	Max	0	0	0.000014	0.000028	0.00004	0
527	Tren A7	LinDirHis	Min	0	0	-0.00405	-0.000005719	-0.000093	0
528	Tren A7	LinDirHis	Max	0	0	0.000015	0.000054	0.000033	0
528	Tren A7	LinDirHis	Min	0	0	-0.004011	-0.00000359	-0.000096	0
529	Tren A7	LinDirHis	Max	0	0	0.000015	0.00008	0.000026	0
529	Tren A7	LinDirHis	Min	0	0	-0.003948	-0.000002214	-0.000097	0
531	Tren A7	LinDirHis	Max	0	0	0.000015	0.000107	0.000018	0
531	Tren A7	LinDirHis	Min	0	0	-0.003856	-0.000001554	-0.000099	0
532	Tren A7	LinDirHis	Max	0	0	0.000014	0.000131	0.00001	0
532	Tren A7	LinDirHis	Min	0	0	-0.003734	-0.000001122	-0.0001	0
533	Tren A7	LinDirHis	Max	0	0	0.000014	0.000154	0.000001678	0
533	Tren A7	LinDirHis	Min	0	0	-0.003581	-0.000001065	-0.0001	0
539	Tren A7	LinDirHis	Max	0	0	0.000013	0.000177	0.000001467	0
539	Tren A7	LinDirHis	Min	0	0	-0.003395	-9.882E-07	-0.0001	0
540	Tren A7	LinDirHis	Max	0	0	0.000012	0.000196	0.000001329	0
540	Tren A7	LinDirHis	Min	0	0	-0.003187	-9.711E-07	-0.000099	0
541	Tren A7	LinDirHis	Max	0	0	0.00001	0.000216	0.000001231	0
541	Tren A7	LinDirHis	Min	0	0	-0.002958	-0.000001003	-0.000101	0
542	Tren A7	LinDirHis	Max	0	0	0.000008889	0.00023	0.000001208	0
542	Tren A7	LinDirHis	Min	0	0	-0.002715	-0.000001016	-0.000101	0
543	Tren A7	LinDirHis	Max	0	0	0.000007672	0.000236	0.000001063	0
543	Tren A7	LinDirHis	Min	0	0	-0.002467	-8.398E-07	-0.0001	0
544	Tren A7	LinDirHis	Max	0	0	0.000006942	0.000247	9.292E-07	0
544	Tren A7	LinDirHis	Min	0	0	-0.002194	-8.056E-07	-0.000103	0
545	Tren A7	LinDirHis	Max	0	0	0.000005904	0.00025	8.661E-07	0
545	Tren A7	LinDirHis	Min	0	0	-0.001921	-8.667E-07	-0.000092	0
546	Tren A7	LinDirHis	Max	0	0	0.000005287	0.000239	7.135E-07	0
546	Tren A7	LinDirHis	Min	0	0	-0.001665	-8.188E-07	-0.000091	0
547	Tren A7	LinDirHis	Max	0	0	0.000004856	0.000239	6.808E-07	0
547	Tren A7	LinDirHis	Min	0	0	-0.001369	-8.092E-07	-0.000093	0
548	Tren A7	LinDirHis	Max	0	0	0.000003611	0.000224	6.272E-07	0
548	Tren A7	LinDirHis	Min	0	0	-0.001115	-8.938E-07	-0.000066	0
549	Tren A7	LinDirHis	Max	0	0	0.000003298	0.000196	4.477E-07	0
549	Tren A7	LinDirHis	Min	0	0	-0.000896	-0.000000743	-0.00007	0
550	Tren A7	LinDirHis	Max	0	0	0.00000276	0.000181	6.061E-07	0
550	Tren A7	LinDirHis	Min	0	0	-0.000637	-7.209E-07	-0.000065	0
551	Tren A7	LinDirHis	Max	0	0	0.000001551	0.00014	3.544E-07	0
551	Tren A7	LinDirHis	Min	0	0	-0.000494	-7.397E-07	-0.000022	0
552	Tren A7	LinDirHis	Max	0	0	0.000003162	0.000086	3.187E-07	0
552	Tren A7	LinDirHis	Min	0	0	-0.00037	-4.955E-07	-0.000056	0
553	Tren A7	LinDirHis	Max	0	0	0.000001071	0.00005	6.075E-07	0
553	Tren A7	LinDirHis	Min	0	0	-0.000177	-0.000000523	-0.000039	0
556	Tren A7	LinDirHis	Max	0	0	1.571E-12	0.00000385	0.000084	0
556	Tren A7	LinDirHis	Min	0	0	-0.000153	-4.639E-13	-0.000001538	0
557	Tren A7	LinDirHis	Max	0	0	0.000002757	3.754E-07	0.000086	0

Apéndice M1				Flecha Dinámica Tren A7						V= 280 km/h
557	Tren A7	LinDirHis	Min	0	0	-0.002328	-0.00024	-0.000033	0	