

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 A10	LinDirHis	Max	0	0	1.336E-11	0.000004187	0.000026	0
140	Tren A10	LinDirHis	Min	0	0	-0.000273	-0.000001414	-1.265E-12	0
229	Tren A10	LinDirHis	Max	0	0	6.207E-12	2.425E-08	3.519E-12	0
229	Tren A10	LinDirHis	Min	0	0	-0.000249	-0.000068	-0.000022	0
230	Tren A10	LinDirHis	Max	0	0	1.154E-11	3.213E-07	2.985E-12	0
230	Tren A10	LinDirHis	Min	0	0	-0.00026	-0.000034	-0.000015	0
231	Tren A10	LinDirHis	Max	0	0	7.953E-13	2.131E-12	0.000022	0
231	Tren A10	LinDirHis	Min	0	0	-0.000214	-0.00009	-0.00001	0
232	Tren A10	LinDirHis	Max	0	0	0.000002483	8.853E-13	0.000051	0
232	Tren A10	LinDirHis	Min	0	0	-0.000367	-0.000105	-0.000004434	0
233	Tren A10	LinDirHis	Max	0	0	0.000004079	6.777E-13	0.000023	0
233	Tren A10	LinDirHis	Min	0	0	-0.000484	-0.000137	-0.000007885	0
234	Tren A10	LinDirHis	Max	0	0	0.000001373	2.944E-07	0.00005	0
234	Tren A10	LinDirHis	Min	0	0	-0.000544	-0.000179	-0.000012	0
235	Tren A10	LinDirHis	Max	0	0	6.716E-07	2.298E-07	0.000068	0
235	Tren A10	LinDirHis	Min	0	0	-0.000761	-0.000183	-0.000008796	0
236	Tren A10	LinDirHis	Max	0	0	0.000002274	8.225E-08	0.000051	0
236	Tren A10	LinDirHis	Min	0	0	-0.000929	-0.000208	-0.000015	0
237	Tren A10	LinDirHis	Max	0	0	0.000001224	2.844E-07	0.000075	0
237	Tren A10	LinDirHis	Min	0	0	-0.001088	-0.000233	-0.000017	0
238	Tren A10	LinDirHis	Max	0	0	9.597E-07	2.195E-07	0.000077	0
238	Tren A10	LinDirHis	Min	0	0	-0.001333	-0.000231	-0.000017	0
239	Tren A10	LinDirHis	Max	0	0	0.000002188	1.555E-07	0.00007	0
239	Tren A10	LinDirHis	Min	0	0	-0.001531	-0.000248	-0.000022	0
240	Tren A10	LinDirHis	Max	0	0	0.00000213	3.318E-07	0.000085	0
240	Tren A10	LinDirHis	Min	0	0	-0.001734	-0.000256	-0.000024	0
241	Tren A10	LinDirHis	Max	0	0	0.000002256	3.268E-07	0.000083	0
241	Tren A10	LinDirHis	Min	0	0	-0.001978	-0.00025	-0.000025	0
242	Tren A10	LinDirHis	Max	0	0	0.000003116	3.013E-07	0.000082	0
242	Tren A10	LinDirHis	Min	0	0	-0.002192	-0.000254	-0.000034	0
244	Tren A10	LinDirHis	Max	0	0	0.000003529	4.028E-07	0.000087	0
244	Tren A10	LinDirHis	Min	0	0	-0.002645	-0.000238	-0.00004	0
245	Tren A10	LinDirHis	Max	0	0	0.000004556	3.867E-07	0.000088	0
245	Tren A10	LinDirHis	Min	0	0	-0.002855	-0.000232	-0.000046	0
246	Tren A10	LinDirHis	Max	0	0	0.000005251	4.563E-07	0.000089	0
246	Tren A10	LinDirHis	Min	0	0	-0.003064	-0.000219	-0.000051	0
247	Tren A10	LinDirHis	Max	0	0	0.00000599	3.833E-07	0.000085	0
247	Tren A10	LinDirHis	Min	0	0	-0.003261	-0.000202	-0.00006	0
248	Tren A10	LinDirHis	Max	0	0	0.000007095	3.455E-07	0.000086	0
248	Tren A10	LinDirHis	Min	0	0	-0.003445	-0.000188	-0.000067	0
249	Tren A10	LinDirHis	Max	0	0	0.000008044	3.868E-07	0.000082	0
249	Tren A10	LinDirHis	Min	0	0	-0.00361	-0.000167	-0.000074	0
250	Tren A10	LinDirHis	Max	0	0	0.000009493	3.879E-07	0.000079	0
250	Tren A10	LinDirHis	Min	0	0	-0.003762	-0.000145	-0.00008	0
251	Tren A10	LinDirHis	Max	0	0	0.000011	3.853E-07	0.000077	0
251	Tren A10	LinDirHis	Min	0	0	-0.003896	-0.000124	-0.000085	0
252	Tren A10	LinDirHis	Max	0	0	0.000012	3.903E-07	0.000073	0

252	Tren A10	LinDirHis	Min	0	0	-0.00401	-0.000099	-0.00009	0
253	Tren A10	LinDirHis	Max	0	0	0.000013	3.367E-07	0.000066	0
253	Tren A10	LinDirHis	Min	0	0	-0.004102	-0.000073	-0.000096	0
254	Tren A10	LinDirHis	Max	0	0	0.000014	2.817E-07	0.00006	0
254	Tren A10	LinDirHis	Min	0	0	-0.004165	-0.000048	-0.000101	0
255	Tren A10	LinDirHis	Max	0	0	0.000014	2.114E-07	0.000054	0
255	Tren A10	LinDirHis	Min	0	0	-0.004198	-0.000025	-0.000104	0
256	Tren A10	LinDirHis	Max	0	0	0.000015	0.000016	0.000046	0
256	Tren A10	LinDirHis	Min	0	0	-0.004203	-0.000009085	-0.000108	0
257	Tren A10	LinDirHis	Max	0	0	0.000014	0.000042	0.000038	0
257	Tren A10	LinDirHis	Min	0	0	-0.004174	-0.000004953	-0.000111	0
258	Tren A10	LinDirHis	Max	0	0	0.000015	0.000069	0.000031	0
258	Tren A10	LinDirHis	Min	0	0	-0.004118	-0.000002858	-0.000113	0
259	Tren A10	LinDirHis	Max	0	0	0.000015	0.000096	0.000024	0
259	Tren A10	LinDirHis	Min	0	0	-0.004036	-0.00000193	-0.000113	0
260	Tren A10	LinDirHis	Max	0	0	0.000015	0.000121	0.000015	0
260	Tren A10	LinDirHis	Min	0	0	-0.003924	-0.00000137	-0.000113	0
261	Tren A10	LinDirHis	Max	0	0	0.000015	0.000145	0.000006734	0
261	Tren A10	LinDirHis	Min	0	0	-0.003778	-0.000001024	-0.000111	0
262	Tren A10	LinDirHis	Max	0	0	0.000015	0.00017	0.000001751	0
262	Tren A10	LinDirHis	Min	0	0	-0.003602	-0.000001075	-0.000115	0
263	Tren A10	LinDirHis	Max	0	0	0.000014	0.00019	0.000001712	0
263	Tren A10	LinDirHis	Min	0	0	-0.0034	-0.000001086	-0.000116	0
264	Tren A10	LinDirHis	Max	0	0	0.000013	0.000209	0.000001598	0
264	Tren A10	LinDirHis	Min	0	0	-0.003177	-9.901E-07	-0.000116	0
265	Tren A10	LinDirHis	Max	0	0	0.000012	0.000228	0.000001542	0
265	Tren A10	LinDirHis	Min	0	0	-0.002931	-9.687E-07	-0.000114	0
266	Tren A10	LinDirHis	Max	0	0	0.000009527	0.000237	0.00000138	0
266	Tren A10	LinDirHis	Min	0	0	-0.00268	-0.000000986	-0.000109	0
267	Tren A10	LinDirHis	Max	0	0	0.000008415	0.000244	0.000001134	0
267	Tren A10	LinDirHis	Min	0	0	-0.002416	-8.948E-07	-0.000109	0
268	Tren A10	LinDirHis	Max	0	0	0.0000072	0.000255	0.000001065	0
268	Tren A10	LinDirHis	Min	0	0	-0.002122	-9.842E-07	-0.000105	0
269	Tren A10	LinDirHis	Max	0	0	0.000006137	0.000249	8.929E-07	0
269	Tren A10	LinDirHis	Min	0	0	-0.001854	-0.000000966	-0.000093	0
270	Tren A10	LinDirHis	Max	0	0	0.000005998	0.000243	7.892E-07	0
270	Tren A10	LinDirHis	Min	0	0	-0.001568	-8.493E-07	-0.000098	0
271	Tren A10	LinDirHis	Max	0	0	0.000004615	0.000242	8.524E-07	0
271	Tren A10	LinDirHis	Min	0	0	-0.001265	-9.765E-07	-0.000084	0
272	Tren A10	LinDirHis	Max	0	0	0.000003893	0.000212	6.021E-07	0
272	Tren A10	LinDirHis	Min	0	0	-0.001041	-8.187E-07	-0.000069	0
273	Tren A10	LinDirHis	Max	0	0	0.000003967	0.000191	5.749E-07	0
273	Tren A10	LinDirHis	Min	0	0	-0.00078	-6.628E-07	-0.000078	0
274	Tren A10	LinDirHis	Max	0	0	0.000002069	0.00017	6.373E-07	0
274	Tren A10	LinDirHis	Min	0	0	-0.000548	-7.778E-07	-0.000048	0
275	Tren A10	LinDirHis	Max	0	0	0.000002557	0.000109	2.762E-07	0
275	Tren A10	LinDirHis	Min	0	0	-0.000458	-6.052E-07	-0.000034	0
276	Tren A10	LinDirHis	Max	0	0	0.000002514	0.000071	6.908E-07	0
276	Tren A10	LinDirHis	Min	0	0	-0.000255	-4.514E-07	-0.000056	0
277	Tren A10	LinDirHis	Max	0	0	0.000004424	0.000032	0.000006463	0

277	Tren A10	LinDirHis	Min	0	0	-0.000072	-5.351E-07	-0.000013	0
278	Tren A10	LinDirHis	Max	0	0	0.000001097	0.000034	4.624E-07	0
278	Tren A10	LinDirHis	Min	0	0	-0.000077	-0.000000511	-0.000058	0
279	Tren A10	LinDirHis	Max	0	0	5.853E-12	0.000002483	0.000077	0
279	Tren A10	LinDirHis	Min	0	0	-0.000138	-2.829E-12	-0.000001524	0
280	Tren A10	LinDirHis	Max	0	0	7.748E-08	1.545E-13	0.000051	0
280	Tren A10	LinDirHis	Min	0	0	-0.000293	-0.0001	-0.000005166	0
283	Tren A10	LinDirHis	Max	0	0	0.000003834	3.107E-13	0.000037	0
283	Tren A10	LinDirHis	Min	0	0	-0.000457	-0.00012	-0.000002225	0
347	Tren A10	LinDirHis	Max	0	0	0.000002894	1.198E-07	0.000022	0
347	Tren A10	LinDirHis	Min	0	0	-0.000518	-0.000166	-0.00000999	0
378	Tren A10	LinDirHis	Max	0	0	3.728E-07	3.201E-07	0.000072	0
378	Tren A10	LinDirHis	Min	0	0	-0.000657	-0.000186	-0.000006642	0
379	Tren A10	LinDirHis	Max	0	0	0.000001565	0.000000134	0.000055	0
379	Tren A10	LinDirHis	Min	0	0	-0.00087	-0.000199	-0.000007721	0
380	Tren A10	LinDirHis	Max	0	0	0.000001937	1.443E-07	0.000057	0
380	Tren A10	LinDirHis	Min	0	0	-0.001014	-0.00023	-0.000014	0
381	Tren A10	LinDirHis	Max	0	0	8.181E-07	2.733E-07	0.000083	0
381	Tren A10	LinDirHis	Min	0	0	-0.001227	-0.000237	-0.000014	0
383	Tren A10	LinDirHis	Max	0	0	0.000001855	2.102E-07	0.000068	0
383	Tren A10	LinDirHis	Min	0	0	-0.001451	-0.000243	-0.000017	0
388	Tren A10	LinDirHis	Max	0	0	0.000001875	2.762E-07	0.000076	0
388	Tren A10	LinDirHis	Min	0	0	-0.001636	-0.000259	-0.000023	0
389	Tren A10	LinDirHis	Max	0	0	0.000001922	4.074E-07	0.000086	0
389	Tren A10	LinDirHis	Min	0	0	-0.001867	-0.000256	-0.000024	0
390	Tren A10	LinDirHis	Max	0	0	0.000002631	3.042E-07	0.000081	0
390	Tren A10	LinDirHis	Min	0	0	-0.002092	-0.000256	-0.000028	0
391	Tren A10	LinDirHis	Max	0	0	0.000003497	3.941E-07	0.000087	0
391	Tren A10	LinDirHis	Min	0	0	-0.002305	-0.000259	-0.000033	0
392	Tren A10	LinDirHis	Max	0	0	0.000003621	3.959E-07	0.000089	0
392	Tren A10	LinDirHis	Min	0	0	-0.002538	-0.000248	-0.000036	0
393	Tren A10	LinDirHis	Max	0	0	0.000004445	3.535E-07	0.000089	0
393	Tren A10	LinDirHis	Min	0	0	-0.002758	-0.000242	-0.000042	0
394	Tren A10	LinDirHis	Max	0	0	0.000004955	4.019E-07	0.000089	0
394	Tren A10	LinDirHis	Min	0	0	-0.002969	-0.000234	-0.000048	0
448	Tren A10	LinDirHis	Max	0	0	0.000005075	4.568E-07	0.000087	0
448	Tren A10	LinDirHis	Min	0	0	-0.003179	-0.000216	-0.000053	0
449	Tren A10	LinDirHis	Max	0	0	0.000005742	4.127E-07	0.000085	0
449	Tren A10	LinDirHis	Min	0	0	-0.003374	-0.0002	-0.000062	0
450	Tren A10	LinDirHis	Max	0	0	0.000006696	0.000000429	0.000083	0
450	Tren A10	LinDirHis	Min	0	0	-0.003551	-0.00018	-0.000069	0
451	Tren A10	LinDirHis	Max	0	0	0.00000782	4.263E-07	0.000079	0
451	Tren A10	LinDirHis	Min	0	0	-0.003709	-0.000158	-0.000074	0
452	Tren A10	LinDirHis	Max	0	0	0.000009414	3.886E-07	0.000077	0
452	Tren A10	LinDirHis	Min	0	0	-0.003848	-0.000136	-0.000079	0
455	Tren A10	LinDirHis	Max	0	0	0.000011	3.878E-07	0.000073	0
455	Tren A10	LinDirHis	Min	0	0	-0.003971	-0.000113	-0.000083	0
516	Tren A10	LinDirHis	Max	0	0	0.000012	3.347E-07	0.000068	0
516	Tren A10	LinDirHis	Min	0	0	-0.004073	-0.000087	-0.000086	0
517	Tren A10	LinDirHis	Max	0	0	0.000014	2.995E-07	0.000063	0

517	Tren A10	LinDirHis	Min	0	0	-0.004145	-0.000061	-0.000091	0
518	Tren A10	LinDirHis	Max	0	0	0.000015	2.674E-07	0.000055	0
518	Tren A10	LinDirHis	Min	0	0	-0.004189	-0.000037	-0.000096	0
519	Tren A10	LinDirHis	Max	0	0	0.000015	0.000003701	0.000049	0
519	Tren A10	LinDirHis	Min	0	0	-0.004205	-0.000015	-0.000099	0
527	Tren A10	LinDirHis	Max	0	0	0.000016	0.000029	0.000041	0
527	Tren A10	LinDirHis	Min	0	0	-0.004193	-0.00000632	-0.000104	0
528	Tren A10	LinDirHis	Max	0	0	0.000016	0.000056	0.000033	0
528	Tren A10	LinDirHis	Min	0	0	-0.004152	-0.000003968	-0.000107	0
529	Tren A10	LinDirHis	Max	0	0	0.000016	0.000083	0.000028	0
529	Tren A10	LinDirHis	Min	0	0	-0.004088	-0.000002447	-0.000108	0
531	Tren A10	LinDirHis	Max	0	0	0.000016	0.00011	0.000019	0
531	Tren A10	LinDirHis	Min	0	0	-0.003993	-0.000001718	-0.00011	0
532	Tren A10	LinDirHis	Max	0	0	0.000016	0.000135	0.000009514	0
532	Tren A10	LinDirHis	Min	0	0	-0.003868	-0.000001239	-0.000111	0
533	Tren A10	LinDirHis	Max	0	0	0.000015	0.00016	0.000001931	0
533	Tren A10	LinDirHis	Min	0	0	-0.003711	-0.000001177	-0.000111	0
539	Tren A10	LinDirHis	Max	0	0	0.000014	0.000184	0.000001621	0
539	Tren A10	LinDirHis	Min	0	0	-0.003523	-0.000001092	-0.000109	0
540	Tren A10	LinDirHis	Max	0	0	0.000013	0.000203	0.000001469	0
540	Tren A10	LinDirHis	Min	0	0	-0.003312	-0.000001073	-0.000108	0
541	Tren A10	LinDirHis	Max	0	0	0.000011	0.000223	0.00000136	0
541	Tren A10	LinDirHis	Min	0	0	-0.003073	-0.000001109	-0.000109	0
542	Tren A10	LinDirHis	Max	0	0	0.000009823	0.000239	0.000001335	0
542	Tren A10	LinDirHis	Min	0	0	-0.002819	-0.000001123	-0.000108	0
543	Tren A10	LinDirHis	Max	0	0	0.000008478	0.000245	0.000001174	0
543	Tren A10	LinDirHis	Min	0	0	-0.002563	-9.279E-07	-0.000105	0
544	Tren A10	LinDirHis	Max	0	0	0.00000767	0.000256	0.000001027	0
544	Tren A10	LinDirHis	Min	0	0	-0.002278	-8.901E-07	-0.000107	0
545	Tren A10	LinDirHis	Max	0	0	0.000006524	0.000259	0.000000957	0
545	Tren A10	LinDirHis	Min	0	0	-0.001993	-9.576E-07	-0.000098	0
546	Tren A10	LinDirHis	Max	0	0	0.000005842	0.000248	7.884E-07	0
546	Tren A10	LinDirHis	Min	0	0	-0.001723	-9.047E-07	-0.000095	0
547	Tren A10	LinDirHis	Max	0	0	0.000005366	0.000248	7.522E-07	0
547	Tren A10	LinDirHis	Min	0	0	-0.001417	-8.941E-07	-0.000097	0
548	Tren A10	LinDirHis	Max	0	0	0.000003991	0.000232	0.000000693	0
548	Tren A10	LinDirHis	Min	0	0	-0.001156	-9.876E-07	-0.000071	0
549	Tren A10	LinDirHis	Max	0	0	0.000003645	0.000203	4.947E-07	0
549	Tren A10	LinDirHis	Min	0	0	-0.000929	-0.000000821	-0.000074	0
550	Tren A10	LinDirHis	Max	0	0	0.00000305	0.000188	6.697E-07	0
550	Tren A10	LinDirHis	Min	0	0	-0.000661	-7.966E-07	-0.000069	0
551	Tren A10	LinDirHis	Max	0	0	0.000001714	0.000146	3.916E-07	0
551	Tren A10	LinDirHis	Min	0	0	-0.000513	-8.174E-07	-0.000024	0
552	Tren A10	LinDirHis	Max	0	0	0.000003495	0.000089	3.522E-07	0
552	Tren A10	LinDirHis	Min	0	0	-0.000385	-5.475E-07	-0.000059	0
553	Tren A10	LinDirHis	Max	0	0	0.000001184	0.00005	6.714E-07	0
553	Tren A10	LinDirHis	Min	0	0	-0.000184	-5.779E-07	-0.000042	0
556	Tren A10	LinDirHis	Max	0	0	7.165E-12	0.00000435	0.000085	0
556	Tren A10	LinDirHis	Min	0	0	-0.000159	-2.795E-12	-0.0000017	0
557	Tren A10	LinDirHis	Max	0	0	0.000003047	4.149E-07	0.00009	0

Apéndice E2				Flecha Dinámica Tren A10						V= 280 km/h
557	Tren A10	LinDirHis	Min	0	0	-0.002416	-0.000248	-0.000036	0	