

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 A4	LinDirHis	Max	0	0	7.503E-12	0.000002691	0.000024	0
140	Tren A4	LinDirHis	Min	0	0	-0.000292	-0.000002676	-2.688E-13	0
229	Tren A4	LinDirHis	Max	0	0	1.527E-11	2.194E-08	1.467E-12	0
229	Tren A4	LinDirHis	Min	0	0	-0.000259	-0.000068	-0.000021	0
230	Tren A4	LinDirHis	Max	0	0	4.27E-12	2.907E-07	0.000001191	0
230	Tren A4	LinDirHis	Min	0	0	-0.000272	-0.000033	-0.000012	0
231	Tren A4	LinDirHis	Max	0	0	8.141E-13	1.23E-12	0.000015	0
231	Tren A4	LinDirHis	Min	0	0	-0.000217	-0.000091	-0.000007673	0
232	Tren A4	LinDirHis	Max	0	0	0.000001982	3.151E-12	0.000051	0
232	Tren A4	LinDirHis	Min	0	0	-0.000363	-0.000105	-0.000004664	0
233	Tren A4	LinDirHis	Max	0	0	0.000002699	2.914E-12	0.000025	0
233	Tren A4	LinDirHis	Min	0	0	-0.000482	-0.000137	-0.000004207	0
234	Tren A4	LinDirHis	Max	0	0	7.592E-07	1.915E-07	0.000051	0
234	Tren A4	LinDirHis	Min	0	0	-0.000543	-0.000179	-0.000007631	0
235	Tren A4	LinDirHis	Max	0	0	3.666E-07	1.332E-07	0.000066	0
235	Tren A4	LinDirHis	Min	0	0	-0.000763	-0.000184	-0.000005478	0
236	Tren A4	LinDirHis	Max	0	0	0.000001519	5.969E-08	0.000046	0
236	Tren A4	LinDirHis	Min	0	0	-0.000932	-0.000209	-0.00001	0
237	Tren A4	LinDirHis	Max	0	0	6.789E-07	1.681E-07	0.000074	0
237	Tren A4	LinDirHis	Min	0	0	-0.001089	-0.000233	-0.000011	0
238	Tren A4	LinDirHis	Max	0	0	6.166E-07	1.811E-07	0.000077	0
238	Tren A4	LinDirHis	Min	0	0	-0.001334	-0.000231	-0.000011	0
239	Tren A4	LinDirHis	Max	0	0	0.000001613	1.062E-07	0.000067	0
239	Tren A4	LinDirHis	Min	0	0	-0.001532	-0.000248	-0.000016	0
240	Tren A4	LinDirHis	Max	0	0	0.000001244	1.998E-07	0.000079	0
240	Tren A4	LinDirHis	Min	0	0	-0.001732	-0.000256	-0.000018	0
241	Tren A4	LinDirHis	Max	0	0	0.000001315	2.492E-07	0.000081	0
241	Tren A4	LinDirHis	Min	0	0	-0.001971	-0.00025	-0.000021	0
242	Tren A4	LinDirHis	Max	0	0	0.000002277	2.265E-07	0.00008	0
242	Tren A4	LinDirHis	Min	0	0	-0.002198	-0.000255	-0.000024	0
244	Tren A4	LinDirHis	Max	0	0	0.000002592	2.795E-07	0.000083	0
244	Tren A4	LinDirHis	Min	0	0	-0.00265	-0.000239	-0.000029	0
245	Tren A4	LinDirHis	Max	0	0	0.000003171	2.912E-07	0.000081	0
245	Tren A4	LinDirHis	Min	0	0	-0.002855	-0.000234	-0.000036	0
246	Tren A4	LinDirHis	Max	0	0	0.000003943	3.392E-07	0.000085	0
246	Tren A4	LinDirHis	Min	0	0	-0.003068	-0.000219	-0.00004	0
247	Tren A4	LinDirHis	Max	0	0	0.000004444	0.000000266	0.000081	0
247	Tren A4	LinDirHis	Min	0	0	-0.00327	-0.000202	-0.000043	0
248	Tren A4	LinDirHis	Max	0	0	0.000004659	2.791E-07	0.00008	0
248	Tren A4	LinDirHis	Min	0	0	-0.003458	-0.000188	-0.000048	0
249	Tren A4	LinDirHis	Max	0	0	0.000005168	3.151E-07	0.000074	0
249	Tren A4	LinDirHis	Min	0	0	-0.003622	-0.000167	-0.000051	0
250	Tren A4	LinDirHis	Max	0	0	0.000006612	2.715E-07	0.000074	0
250	Tren A4	LinDirHis	Min	0	0	-0.003775	-0.000145	-0.000062	0
251	Tren A4	LinDirHis	Max	0	0	0.000008314	2.499E-07	0.000071	0
251	Tren A4	LinDirHis	Min	0	0	-0.003915	-0.000124	-0.000063	0
252	Tren A4	LinDirHis	Max	0	0	0.00000918	2.825E-07	0.000065	0

252	Tren A4	LinDirHis	Min	0	0	-0.004021	-0.000099	-0.000064	0
253	Tren A4	LinDirHis	Max	0	0	0.000009286	2.525E-07	0.000059	0
253	Tren A4	LinDirHis	Min	0	0	-0.004108	-0.000073	-0.000067	0
254	Tren A4	LinDirHis	Max	0	0	0.000009667	1.923E-07	0.00005	0
254	Tren A4	LinDirHis	Min	0	0	-0.004164	-0.000047	-0.000073	0
255	Tren A4	LinDirHis	Max	0	0	0.000011	1.713E-07	0.000048	0
255	Tren A4	LinDirHis	Min	0	0	-0.004203	-0.000022	-0.000078	0
256	Tren A4	LinDirHis	Max	0	0	0.000012	0.000015	0.000041	0
256	Tren A4	LinDirHis	Min	0	0	-0.004211	-0.000006435	-0.000077	0
257	Tren A4	LinDirHis	Max	0	0	0.000012	0.000041	0.000031	0
257	Tren A4	LinDirHis	Min	0	0	-0.004186	-0.000003583	-0.00008	0
258	Tren A4	LinDirHis	Max	0	0	0.00001	0.000068	0.000021	0
258	Tren A4	LinDirHis	Min	0	0	-0.004121	-0.000002355	-0.000077	0
259	Tren A4	LinDirHis	Max	0	0	0.000011	0.000095	0.000017	0
259	Tren A4	LinDirHis	Min	0	0	-0.004042	-0.000001406	-0.000086	0
260	Tren A4	LinDirHis	Max	0	0	0.000012	0.000122	0.000008524	0
260	Tren A4	LinDirHis	Min	0	0	-0.003937	-8.939E-07	-0.000085	0
261	Tren A4	LinDirHis	Max	0	0	0.000012	0.000146	0.00000136	0
261	Tren A4	LinDirHis	Min	0	0	-0.003787	-8.457E-07	-0.000082	0
262	Tren A4	LinDirHis	Max	0	0	0.00001	0.00017	0.000001302	0
262	Tren A4	LinDirHis	Min	0	0	-0.003613	-7.161E-07	-0.00009	0
263	Tren A4	LinDirHis	Max	0	0	0.000009279	0.000191	0.000001126	0
263	Tren A4	LinDirHis	Min	0	0	-0.003408	-8.114E-07	-0.000093	0
264	Tren A4	LinDirHis	Max	0	0	0.000009395	0.000209	0.000001108	0
264	Tren A4	LinDirHis	Min	0	0	-0.003191	-7.296E-07	-0.000092	0
265	Tren A4	LinDirHis	Max	0	0	0.000008588	0.000228	0.000001128	0
265	Tren A4	LinDirHis	Min	0	0	-0.002947	-0.000000727	-0.000096	0
266	Tren A4	LinDirHis	Max	0	0	0.000006766	0.000238	0.000001027	0
266	Tren A4	LinDirHis	Min	0	0	-0.002692	-7.592E-07	-0.00009	0
267	Tren A4	LinDirHis	Max	0	0	0.00000546	0.000245	0.000000795	0
267	Tren A4	LinDirHis	Min	0	0	-0.002416	-6.289E-07	-0.0001	0
268	Tren A4	LinDirHis	Max	0	0	0.00000522	0.000256	6.903E-07	0
268	Tren A4	LinDirHis	Min	0	0	-0.002122	-6.306E-07	-0.000092	0
269	Tren A4	LinDirHis	Max	0	0	0.000004639	0.00025	6.561E-07	0
269	Tren A4	LinDirHis	Min	0	0	-0.001856	-7.081E-07	-0.000086	0
270	Tren A4	LinDirHis	Max	0	0	0.000004493	0.000244	5.875E-07	0
270	Tren A4	LinDirHis	Min	0	0	-0.001564	-0.000000646	-0.000092	0
271	Tren A4	LinDirHis	Max	0	0	0.000003388	0.000242	6.279E-07	0
271	Tren A4	LinDirHis	Min	0	0	-0.001263	-0.000000722	-0.000079	0
272	Tren A4	LinDirHis	Max	0	0	0.000002724	0.000211	4.438E-07	0
272	Tren A4	LinDirHis	Min	0	0	-0.001036	-5.714E-07	-0.000068	0
273	Tren A4	LinDirHis	Max	0	0	0.000002488	0.000192	4.306E-07	0
273	Tren A4	LinDirHis	Min	0	0	-0.00078	-0.000000516	-0.000073	0
274	Tren A4	LinDirHis	Max	0	0	0.000001548	0.000171	4.524E-07	0
274	Tren A4	LinDirHis	Min	0	0	-0.000547	-6.041E-07	-0.000045	0
275	Tren A4	LinDirHis	Max	0	0	0.000002091	0.000109	1.904E-07	0
275	Tren A4	LinDirHis	Min	0	0	-0.000452	-4.689E-07	-0.000033	0
276	Tren A4	LinDirHis	Max	0	0	0.000001734	0.000071	5.133E-07	0
276	Tren A4	LinDirHis	Min	0	0	-0.000253	-3.429E-07	-0.000059	0
277	Tren A4	LinDirHis	Max	0	0	0.000003441	0.000026	0.000004405	0

277	Tren A4	LinDirHis	Min	0	0	-0.000076	-3.887E-07	-0.000006835	0
278	Tren A4	LinDirHis	Max	0	0	8.795E-07	0.000035	3.108E-07	0
278	Tren A4	LinDirHis	Min	0	0	-0.000091	-3.687E-07	-0.000036	0
279	Tren A4	LinDirHis	Max	0	0	4.707E-13	0.000002511	0.000083	0
279	Tren A4	LinDirHis	Min	0	0	-0.000149	-2.153E-09	-0.000001379	0
280	Tren A4	LinDirHis	Max	0	0	7.01E-08	1.13E-12	0.000051	0
280	Tren A4	LinDirHis	Min	0	0	-0.000288	-0.000101	-0.000002877	0
283	Tren A4	LinDirHis	Max	0	0	0.000002953	1.505E-13	0.000037	0
283	Tren A4	LinDirHis	Min	0	0	-0.000452	-0.000121	-8.657E-07	0
347	Tren A4	LinDirHis	Max	0	0	0.000001773	8.954E-08	0.000019	0
347	Tren A4	LinDirHis	Min	0	0	-0.000516	-0.000166	-0.000006855	0
378	Tren A4	LinDirHis	Max	0	0	3.337E-07	1.709E-07	0.000072	0
378	Tren A4	LinDirHis	Min	0	0	-0.00066	-0.000185	-0.000005391	0
379	Tren A4	LinDirHis	Max	0	0	0.000001411	1.018E-07	0.000056	0
379	Tren A4	LinDirHis	Min	0	0	-0.000872	-0.000199	-0.000005764	0
380	Tren A4	LinDirHis	Max	0	0	0.000001161	1.255E-07	0.000055	0
380	Tren A4	LinDirHis	Min	0	0	-0.001012	-0.000231	-0.00001	0
381	Tren A4	LinDirHis	Max	0	0	6.684E-07	1.793E-07	0.00008	0
381	Tren A4	LinDirHis	Min	0	0	-0.001225	-0.000237	-0.000009397	0
383	Tren A4	LinDirHis	Max	0	0	0.000001308	1.505E-07	0.000066	0
383	Tren A4	LinDirHis	Min	0	0	-0.001448	-0.000243	-0.000013	0
388	Tren A4	LinDirHis	Max	0	0	0.000001407	2.053E-07	0.000074	0
388	Tren A4	LinDirHis	Min	0	0	-0.001637	-0.000259	-0.000016	0
389	Tren A4	LinDirHis	Max	0	0	0.000001466	2.752E-07	0.000085	0
389	Tren A4	LinDirHis	Min	0	0	-0.001864	-0.000257	-0.000017	0
390	Tren A4	LinDirHis	Max	0	0	0.000000208	1.973E-07	0.000079	0
390	Tren A4	LinDirHis	Min	0	0	-0.0021	-0.000257	-0.000021	0
391	Tren A4	LinDirHis	Max	0	0	0.000001961	2.605E-07	0.000081	0
391	Tren A4	LinDirHis	Min	0	0	-0.002315	-0.00026	-0.000024	0
392	Tren A4	LinDirHis	Max	0	0	0.000002521	3.337E-07	0.000085	0
392	Tren A4	LinDirHis	Min	0	0	-0.002546	-0.000249	-0.000028	0
393	Tren A4	LinDirHis	Max	0	0	0.000003361	0.000000255	0.000085	0
393	Tren A4	LinDirHis	Min	0	0	-0.00277	-0.000242	-0.00003	0
394	Tren A4	LinDirHis	Max	0	0	0.000003667	2.756E-07	0.000084	0
394	Tren A4	LinDirHis	Min	0	0	-0.002974	-0.000234	-0.000032	0
448	Tren A4	LinDirHis	Max	0	0	0.000003487	3.431E-07	0.00008	0
448	Tren A4	LinDirHis	Min	0	0	-0.003181	-0.000216	-0.000036	0
449	Tren A4	LinDirHis	Max	0	0	0.000004546	3.033E-07	0.000079	0
449	Tren A4	LinDirHis	Min	0	0	-0.003372	-0.000201	-0.000047	0
450	Tren A4	LinDirHis	Max	0	0	0.000005584	2.775E-07	0.000078	0
450	Tren A4	LinDirHis	Min	0	0	-0.003557	-0.00018	-0.000051	0
451	Tren A4	LinDirHis	Max	0	0	0.00000632	2.906E-07	0.000075	0
451	Tren A4	LinDirHis	Min	0	0	-0.003716	-0.000157	-0.000052	0
452	Tren A4	LinDirHis	Max	0	0	0.000007154	2.946E-07	0.00007	0
452	Tren A4	LinDirHis	Min	0	0	-0.003859	-0.000136	-0.000057	0
455	Tren A4	LinDirHis	Max	0	0	0.000007692	3.054E-07	0.000062	0
455	Tren A4	LinDirHis	Min	0	0	-0.003973	-0.000113	-0.000061	0
516	Tren A4	LinDirHis	Max	0	0	0.000009261	2.331E-07	0.000062	0
516	Tren A4	LinDirHis	Min	0	0	-0.004078	-0.000086	-0.000067	0
517	Tren A4	LinDirHis	Max	0	0	0.000011	2.258E-07	0.000057	0

517	Tren A4	LinDirHis	Min	0	0	-0.00416	-0.00006	-0.000069	0
518	Tren A4	LinDirHis	Max	0	0	0.000011	2.042E-07	0.000047	0
518	Tren A4	LinDirHis	Min	0	0	-0.004201	-0.000035	-0.000071	0
519	Tren A4	LinDirHis	Max	0	0	0.00001	0.000002656	0.00004	0
519	Tren A4	LinDirHis	Min	0	0	-0.004217	-0.000011	-0.000071	0
527	Tren A4	LinDirHis	Max	0	0	0.000011	0.000029	0.000034	0
527	Tren A4	LinDirHis	Min	0	0	-0.004207	-0.000004519	-0.000078	0
528	Tren A4	LinDirHis	Max	0	0	0.000012	0.000056	0.000026	0
528	Tren A4	LinDirHis	Min	0	0	-0.004174	-0.000003003	-0.00008	0
529	Tren A4	LinDirHis	Max	0	0	0.000012	0.000083	0.00002	0
529	Tren A4	LinDirHis	Min	0	0	-0.004101	-0.000001883	-0.000079	0
531	Tren A4	LinDirHis	Max	0	0	0.000012	0.00011	0.000011	0
531	Tren A4	LinDirHis	Min	0	0	-0.004004	-0.000001167	-0.000082	0
532	Tren A4	LinDirHis	Max	0	0	0.00001	0.000135	0.000001168	0
532	Tren A4	LinDirHis	Min	0	0	-0.003867	-9.373E-07	-0.000083	0
533	Tren A4	LinDirHis	Max	0	0	0.000011	0.000161	0.000001204	0
533	Tren A4	LinDirHis	Min	0	0	-0.003714	-8.454E-07	-0.000083	0
539	Tren A4	LinDirHis	Max	0	0	0.000011	0.000184	0.000001264	0
539	Tren A4	LinDirHis	Min	0	0	-0.003533	-8.671E-07	-0.000089	0
540	Tren A4	LinDirHis	Max	0	0	0.00001	0.000204	0.000001216	0
540	Tren A4	LinDirHis	Min	0	0	-0.003315	-7.606E-07	-0.000088	0
541	Tren A4	LinDirHis	Max	0	0	0.000008128	0.000225	0.000001104	0
541	Tren A4	LinDirHis	Min	0	0	-0.003077	-8.276E-07	-0.000095	0
542	Tren A4	LinDirHis	Max	0	0	0.000007355	0.00024	9.272E-07	0
542	Tren A4	LinDirHis	Min	0	0	-0.002826	-8.074E-07	-0.000093	0
543	Tren A4	LinDirHis	Max	0	0	0.000006669	0.000245	8.801E-07	0
543	Tren A4	LinDirHis	Min	0	0	-0.002572	-6.912E-07	-0.000094	0
544	Tren A4	LinDirHis	Max	0	0	0.000006014	0.000256	8.067E-07	0
544	Tren A4	LinDirHis	Min	0	0	-0.002282	-7.179E-07	-0.000098	0
545	Tren A4	LinDirHis	Max	0	0	0.000004684	0.00026	7.476E-07	0
545	Tren A4	LinDirHis	Min	0	0	-0.001996	-7.924E-07	-0.000086	0
546	Tren A4	LinDirHis	Max	0	0	0.000003939	0.000248	5.591E-07	0
546	Tren A4	LinDirHis	Min	0	0	-0.001721	-5.981E-07	-0.000089	0
547	Tren A4	LinDirHis	Max	0	0	0.000003766	0.000248	5.585E-07	0
547	Tren A4	LinDirHis	Min	0	0	-0.001419	-6.262E-07	-0.000088	0
548	Tren A4	LinDirHis	Max	0	0	0.000002988	0.000233	4.844E-07	0
548	Tren A4	LinDirHis	Min	0	0	-0.00116	-7.387E-07	-0.000065	0
549	Tren A4	LinDirHis	Max	0	0	0.000002944	0.000204	3.717E-07	0
549	Tren A4	LinDirHis	Min	0	0	-0.000925	-6.101E-07	-0.000071	0
550	Tren A4	LinDirHis	Max	0	0	0.00000239	0.000188	4.426E-07	0
550	Tren A4	LinDirHis	Min	0	0	-0.000658	-5.928E-07	-0.000067	0
551	Tren A4	LinDirHis	Max	0	0	0.00000141	0.000146	3.138E-07	0
551	Tren A4	LinDirHis	Min	0	0	-0.000512	-5.144E-07	-0.000022	0
552	Tren A4	LinDirHis	Max	0	0	0.000002515	0.000089	2.282E-07	0
552	Tren A4	LinDirHis	Min	0	0	-0.000383	-4.041E-07	-0.000055	0
553	Tren A4	LinDirHis	Max	0	0	7.895E-07	0.000054	4.642E-07	0
553	Tren A4	LinDirHis	Min	0	0	-0.00018	-4.148E-07	-0.00004	0
556	Tren A4	LinDirHis	Max	0	0	1.592E-12	0.000004638	0.000091	0
556	Tren A4	LinDirHis	Min	0	0	-0.000172	-1.564E-12	-0.000001538	0
557	Tren A4	LinDirHis	Max	0	0	0.00000255	2.679E-07	0.000087	0

Apéndice T				Flecha Dinámica Tren A4						V= 336 km/h
557	Tren A4	LinDirHis	Min	0	0	-0.00242	-0.000249	-0.000025	0	