

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 A2	LinDirHis	Max	0	0	2.075E-12	0.00000299	0.000032	0
140	Tren A2	LinDirHis	Min	0	0	-0.000335	-0.000004065	-1.999E-13	0
229	Tren A2	LinDirHis	Max	0	0	1.077E-12	2.309E-08	5.015E-13	0
229	Tren A2	LinDirHis	Min	0	0	-0.000304	-0.00008	-0.000032	0
230	Tren A2	LinDirHis	Max	0	0	1.694E-12	0.000000306	3.126E-13	0
230	Tren A2	LinDirHis	Min	0	0	-0.000331	-0.000038	-0.000015	0
231	Tren A2	LinDirHis	Max	0	0	1.21E-13	6.332E-14	0.000022	0
231	Tren A2	LinDirHis	Min	0	0	-0.000259	-0.000107	-0.00001	0
232	Tren A2	LinDirHis	Max	0	0	0.000002364	2.656E-14	0.000061	0
232	Tren A2	LinDirHis	Min	0	0	-0.00043	-0.000124	-0.000004629	0
233	Tren A2	LinDirHis	Max	0	0	0.000004841	2.201E-14	0.000029	0
233	Tren A2	LinDirHis	Min	0	0	-0.000569	-0.000162	-0.000007553	0
234	Tren A2	LinDirHis	Max	0	0	0.000001493	3.517E-07	0.000062	0
234	Tren A2	LinDirHis	Min	0	0	-0.000643	-0.000212	-0.000011	0
235	Tren A2	LinDirHis	Max	0	0	7.283E-07	2.345E-07	0.000081	0
235	Tren A2	LinDirHis	Min	0	0	-0.000902	-0.000217	-0.000008521	0
236	Tren A2	LinDirHis	Max	0	0	0.000002081	9.211E-08	0.000062	0
236	Tren A2	LinDirHis	Min	0	0	-0.001104	-0.000247	-0.000015	0
237	Tren A2	LinDirHis	Max	0	0	0.000001428	2.789E-07	0.000089	0
237	Tren A2	LinDirHis	Min	0	0	-0.001293	-0.000276	-0.000018	0
238	Tren A2	LinDirHis	Max	0	0	0.00000119	2.706E-07	0.000094	0
238	Tren A2	LinDirHis	Min	0	0	-0.001583	-0.000273	-0.000018	0
239	Tren A2	LinDirHis	Max	0	0	0.000002512	1.975E-07	0.000085	0
239	Tren A2	LinDirHis	Min	0	0	-0.001816	-0.000293	-0.000026	0
240	Tren A2	LinDirHis	Max	0	0	0.000002116	3.396E-07	0.000102	0
240	Tren A2	LinDirHis	Min	0	0	-0.002058	-0.000303	-0.000028	0
241	Tren A2	LinDirHis	Max	0	0	0.000002354	3.642E-07	0.0001	0
241	Tren A2	LinDirHis	Min	0	0	-0.002345	-0.000297	-0.000031	0
242	Tren A2	LinDirHis	Max	0	0	0.000003549	3.233E-07	0.0001	0
242	Tren A2	LinDirHis	Min	0	0	-0.002601	-0.000301	-0.000036	0
244	Tren A2	LinDirHis	Max	0	0	0.000004145	4.365E-07	0.000105	0
244	Tren A2	LinDirHis	Min	0	0	-0.003134	-0.000283	-0.000041	0
245	Tren A2	LinDirHis	Max	0	0	0.000005123	4.113E-07	0.000106	0
245	Tren A2	LinDirHis	Min	0	0	-0.003381	-0.000276	-0.000047	0
246	Tren A2	LinDirHis	Max	0	0	0.000005395	4.798E-07	0.000107	0
246	Tren A2	LinDirHis	Min	0	0	-0.003629	-0.000259	-0.000051	0
247	Tren A2	LinDirHis	Max	0	0	0.000006138	4.533E-07	0.000103	0
247	Tren A2	LinDirHis	Min	0	0	-0.003867	-0.000239	-0.000059	0
248	Tren A2	LinDirHis	Max	0	0	0.000007228	4.164E-07	0.000106	0
248	Tren A2	LinDirHis	Min	0	0	-0.004092	-0.000222	-0.000066	0
249	Tren A2	LinDirHis	Max	0	0	0.000008237	0.000000445	0.000103	0
249	Tren A2	LinDirHis	Min	0	0	-0.0043	-0.000198	-0.000072	0
250	Tren A2	LinDirHis	Max	0	0	0.000009989	4.223E-07	0.000098	0
250	Tren A2	LinDirHis	Min	0	0	-0.004485	-0.000172	-0.000078	0
251	Tren A2	LinDirHis	Max	0	0	0.000012	4.137E-07	0.000094	0
251	Tren A2	LinDirHis	Min	0	0	-0.00464	-0.000147	-0.000083	0
252	Tren A2	LinDirHis	Max	0	0	0.000013	4.146E-07	0.000088	0

252	Tren A2	LinDirHis	Min	0	0	-0.004766	-0.000117	-0.000088	0
253	Tren A2	LinDirHis	Max	0	0	0.000015	0.000000362	0.000083	0
253	Tren A2	LinDirHis	Min	0	0	-0.004864	-0.000086	-0.000092	0
254	Tren A2	LinDirHis	Max	0	0	0.000016	3.111E-07	0.000076	0
254	Tren A2	LinDirHis	Min	0	0	-0.004933	-0.000057	-0.000097	0
255	Tren A2	LinDirHis	Max	0	0	0.000016	2.582E-07	0.000068	0
255	Tren A2	LinDirHis	Min	0	0	-0.004966	-0.000027	-0.0001	0
256	Tren A2	LinDirHis	Max	0	0	0.000017	0.000019	0.000061	0
256	Tren A2	LinDirHis	Min	0	0	-0.004971	-0.000008952	-0.000102	0
257	Tren A2	LinDirHis	Max	0	0	0.000017	0.00005	0.000053	0
257	Tren A2	LinDirHis	Min	0	0	-0.004942	-0.000005284	-0.000104	0
258	Tren A2	LinDirHis	Max	0	0	0.000017	0.000082	0.000045	0
258	Tren A2	LinDirHis	Min	0	0	-0.004879	-0.000003197	-0.000106	0
259	Tren A2	LinDirHis	Max	0	0	0.000017	0.000114	0.000036	0
259	Tren A2	LinDirHis	Min	0	0	-0.004785	-0.000002086	-0.000109	0
260	Tren A2	LinDirHis	Max	0	0	0.000016	0.000145	0.000026	0
260	Tren A2	LinDirHis	Min	0	0	-0.004657	-0.000001409	-0.000111	0
261	Tren A2	LinDirHis	Max	0	0	0.000015	0.000173	0.000015	0
261	Tren A2	LinDirHis	Min	0	0	-0.00449	-0.000001191	-0.000113	0
262	Tren A2	LinDirHis	Max	0	0	0.000015	0.000201	0.000003096	0
262	Tren A2	LinDirHis	Min	0	0	-0.004284	-0.000001107	-0.000114	0
263	Tren A2	LinDirHis	Max	0	0	0.000014	0.000226	0.000001745	0
263	Tren A2	LinDirHis	Min	0	0	-0.004044	-0.00000111	-0.000116	0
264	Tren A2	LinDirHis	Max	0	0	0.000013	0.000248	0.000001598	0
264	Tren A2	LinDirHis	Min	0	0	-0.003777	-0.000001101	-0.000117	0
265	Tren A2	LinDirHis	Max	0	0	0.000012	0.00027	0.000001502	0
265	Tren A2	LinDirHis	Min	0	0	-0.003483	-0.000001143	-0.000117	0
266	Tren A2	LinDirHis	Max	0	0	0.000009687	0.000281	0.000001366	0
266	Tren A2	LinDirHis	Min	0	0	-0.003182	-0.000001095	-0.000114	0
267	Tren A2	LinDirHis	Max	0	0	0.00000886	0.00029	0.000001135	0
267	Tren A2	LinDirHis	Min	0	0	-0.002864	-9.693E-07	-0.000117	0
268	Tren A2	LinDirHis	Max	0	0	0.00000773	0.000303	0.00000112	0
268	Tren A2	LinDirHis	Min	0	0	-0.002513	-0.000001061	-0.000114	0
269	Tren A2	LinDirHis	Max	0	0	0.000006657	0.000295	9.569E-07	0
269	Tren A2	LinDirHis	Min	0	0	-0.002194	-0.000001041	-0.000102	0
270	Tren A2	LinDirHis	Max	0	0	0.000006411	0.000288	8.508E-07	0
270	Tren A2	LinDirHis	Min	0	0	-0.001857	-9.224E-07	-0.000111	0
271	Tren A2	LinDirHis	Max	0	0	0.00000505	0.000287	8.927E-07	0
271	Tren A2	LinDirHis	Min	0	0	-0.0015	-0.000001031	-0.000096	0
272	Tren A2	LinDirHis	Max	0	0	0.000003945	0.000252	6.497E-07	0
272	Tren A2	LinDirHis	Min	0	0	-0.001232	-9.377E-07	-0.000079	0
273	Tren A2	LinDirHis	Max	0	0	0.000003779	0.000227	5.587E-07	0
273	Tren A2	LinDirHis	Min	0	0	-0.000926	-7.778E-07	-0.000092	0
274	Tren A2	LinDirHis	Max	0	0	0.000002209	0.000202	6.722E-07	0
274	Tren A2	LinDirHis	Min	0	0	-0.000646	-8.635E-07	-0.000053	0
275	Tren A2	LinDirHis	Max	0	0	0.000002841	0.00013	2.757E-07	0
275	Tren A2	LinDirHis	Min	0	0	-0.000538	-7.018E-07	-0.000039	0
276	Tren A2	LinDirHis	Max	0	0	0.000002772	0.000085	7.472E-07	0
276	Tren A2	LinDirHis	Min	0	0	-0.000302	-5.173E-07	-0.000065	0
277	Tren A2	LinDirHis	Max	0	0	0.000004311	0.000034	0.00000271	0

277	Tren A2	LinDirHis	Min	0	0	-0.000076	-5.885E-07	-0.000014	0
278	Tren A2	LinDirHis	Max	0	0	0.000001039	0.000041	5.128E-07	0
278	Tren A2	LinDirHis	Min	0	0	-0.000101	-5.724E-07	-0.000058	0
279	Tren A2	LinDirHis	Max	0	0	2.713E-12	0.000003899	0.000083	0
279	Tren A2	LinDirHis	Min	0	0	-0.000198	-4.558E-07	-0.000001452	0
280	Tren A2	LinDirHis	Max	0	0	7.379E-08	8.313E-14	0.000058	0
280	Tren A2	LinDirHis	Min	0	0	-0.000339	-0.000119	-0.000005146	0
283	Tren A2	LinDirHis	Max	0	0	0.000004921	4.321E-14	0.000043	0
283	Tren A2	LinDirHis	Min	0	0	-0.00053	-0.000142	-0.00000277	0
347	Tren A2	LinDirHis	Max	0	0	0.000003303	1.125E-07	0.000027	0
347	Tren A2	LinDirHis	Min	0	0	-0.000608	-0.000196	-0.00001	0
378	Tren A2	LinDirHis	Max	0	0	3.347E-07	3.436E-07	0.000086	0
378	Tren A2	LinDirHis	Min	0	0	-0.000776	-0.00022	-0.000007409	0
379	Tren A2	LinDirHis	Max	0	0	0.000002016	1.288E-07	0.000065	0
379	Tren A2	LinDirHis	Min	0	0	-0.001029	-0.000235	-0.000009347	0
380	Tren A2	LinDirHis	Max	0	0	0.000001831	1.814E-07	0.000067	0
380	Tren A2	LinDirHis	Min	0	0	-0.001202	-0.000272	-0.000016	0
381	Tren A2	LinDirHis	Max	0	0	9.516E-07	3.498E-07	0.000099	0
381	Tren A2	LinDirHis	Min	0	0	-0.001449	-0.000282	-0.000015	0
383	Tren A2	LinDirHis	Max	0	0	0.000001651	2.011E-07	0.000082	0
383	Tren A2	LinDirHis	Min	0	0	-0.001721	-0.000289	-0.000018	0
388	Tren A2	LinDirHis	Max	0	0	0.000002348	3.146E-07	0.000091	0
388	Tren A2	LinDirHis	Min	0	0	-0.001945	-0.000308	-0.000024	0
389	Tren A2	LinDirHis	Max	0	0	0.00000213	4.303E-07	0.000103	0
389	Tren A2	LinDirHis	Min	0	0	-0.002216	-0.000305	-0.000025	0
390	Tren A2	LinDirHis	Max	0	0	0.000002822	3.184E-07	0.000098	0
390	Tren A2	LinDirHis	Min	0	0	-0.002488	-0.000304	-0.000028	0
391	Tren A2	LinDirHis	Max	0	0	0.000003722	0.000000435	0.000105	0
391	Tren A2	LinDirHis	Min	0	0	-0.002742	-0.000307	-0.000032	0
392	Tren A2	LinDirHis	Max	0	0	0.000003926	4.905E-07	0.000106	0
392	Tren A2	LinDirHis	Min	0	0	-0.003013	-0.000295	-0.000035	0
393	Tren A2	LinDirHis	Max	0	0	0.000004734	4.058E-07	0.000106	0
393	Tren A2	LinDirHis	Min	0	0	-0.003266	-0.000286	-0.00004	0
394	Tren A2	LinDirHis	Max	0	0	0.000005534	0.000000492	0.000108	0
394	Tren A2	LinDirHis	Min	0	0	-0.003511	-0.000277	-0.000045	0
448	Tren A2	LinDirHis	Max	0	0	0.000005966	4.997E-07	0.000106	0
448	Tren A2	LinDirHis	Min	0	0	-0.003757	-0.000256	-0.00005	0
449	Tren A2	LinDirHis	Max	0	0	0.000006846	4.163E-07	0.000105	0
449	Tren A2	LinDirHis	Min	0	0	-0.003988	-0.000238	-0.000059	0
450	Tren A2	LinDirHis	Max	0	0	0.000007803	4.331E-07	0.000105	0
450	Tren A2	LinDirHis	Min	0	0	-0.004204	-0.000213	-0.000065	0
451	Tren A2	LinDirHis	Max	0	0	0.000008759	4.215E-07	0.000101	0
451	Tren A2	LinDirHis	Min	0	0	-0.004402	-0.000187	-0.00007	0
452	Tren A2	LinDirHis	Max	0	0	0.00001	3.989E-07	0.000097	0
452	Tren A2	LinDirHis	Min	0	0	-0.004572	-0.000162	-0.000077	0
455	Tren A2	LinDirHis	Max	0	0	0.000012	4.202E-07	0.000089	0
455	Tren A2	LinDirHis	Min	0	0	-0.004714	-0.000134	-0.000083	0
516	Tren A2	LinDirHis	Max	0	0	0.000013	3.743E-07	0.000084	0
516	Tren A2	LinDirHis	Min	0	0	-0.004828	-0.000102	-0.000089	0
517	Tren A2	LinDirHis	Max	0	0	0.000014	3.067E-07	0.000078	0

517	Tren A2	LinDirHis	Min	0	0	-0.004913	-0.000073	-0.000095	0
518	Tren A2	LinDirHis	Max	0	0	0.000015	2.691E-07	0.000069	0
518	Tren A2	LinDirHis	Min	0	0	-0.004966	-0.000042	-0.000099	0
519	Tren A2	LinDirHis	Max	0	0	0.000016	0.000005111	0.000062	0
519	Tren A2	LinDirHis	Min	0	0	-0.004988	-0.000015	-0.000101	0
527	Tren A2	LinDirHis	Max	0	0	0.000017	0.000035	0.000054	0
527	Tren A2	LinDirHis	Min	0	0	-0.004979	-0.000006747	-0.000104	0
528	Tren A2	LinDirHis	Max	0	0	0.000017	0.000067	0.000045	0
528	Tren A2	LinDirHis	Min	0	0	-0.004936	-0.000004127	-0.000107	0
529	Tren A2	LinDirHis	Max	0	0	0.000017	0.000099	0.000037	0
529	Tren A2	LinDirHis	Min	0	0	-0.00486	-0.000002698	-0.000107	0
531	Tren A2	LinDirHis	Max	0	0	0.000017	0.000131	0.000027	0
531	Tren A2	LinDirHis	Min	0	0	-0.004749	-0.000001803	-0.000109	0
532	Tren A2	LinDirHis	Max	0	0	0.000017	0.000161	0.000017	0
532	Tren A2	LinDirHis	Min	0	0	-0.0046	-0.000001301	-0.000109	0
533	Tren A2	LinDirHis	Max	0	0	0.000016	0.00019	0.000006971	0
533	Tren A2	LinDirHis	Min	0	0	-0.004414	-0.000001213	-0.000108	0
539	Tren A2	LinDirHis	Max	0	0	0.000015	0.000218	0.000001818	0
539	Tren A2	LinDirHis	Min	0	0	-0.004187	-0.000001258	-0.000109	0
540	Tren A2	LinDirHis	Max	0	0	0.000014	0.000242	0.000001709	0
540	Tren A2	LinDirHis	Min	0	0	-0.00393	-0.000001172	-0.000111	0
541	Tren A2	LinDirHis	Max	0	0	0.000013	0.000266	0.000001623	0
541	Tren A2	LinDirHis	Min	0	0	-0.003647	-0.000001177	-0.000114	0
542	Tren A2	LinDirHis	Max	0	0	0.000011	0.000283	0.000001567	0
542	Tren A2	LinDirHis	Min	0	0	-0.003344	-0.000001156	-0.000114	0
543	Tren A2	LinDirHis	Max	0	0	0.000009633	0.00029	0.00000133	0
543	Tren A2	LinDirHis	Min	0	0	-0.003035	-0.000001002	-0.000114	0
544	Tren A2	LinDirHis	Max	0	0	0.000008538	0.000303	0.000001161	0
544	Tren A2	LinDirHis	Min	0	0	-0.002696	-9.596E-07	-0.000118	0
545	Tren A2	LinDirHis	Max	0	0	0.00000706	0.000307	0.000001063	0
545	Tren A2	LinDirHis	Min	0	0	-0.002357	-0.000001039	-0.000106	0
546	Tren A2	LinDirHis	Max	0	0	0.000006084	0.000295	8.522E-07	0
546	Tren A2	LinDirHis	Min	0	0	-0.00204	-9.463E-07	-0.000106	0
547	Tren A2	LinDirHis	Max	0	0	0.000005361	0.000295	7.992E-07	0
547	Tren A2	LinDirHis	Min	0	0	-0.001679	-9.336E-07	-0.00011	0
548	Tren A2	LinDirHis	Max	0	0	0.000004004	0.000277	7.084E-07	0
548	Tren A2	LinDirHis	Min	0	0	-0.001369	-0.00000101	-0.00008	0
549	Tren A2	LinDirHis	Max	0	0	0.000004387	0.000242	5.288E-07	0
549	Tren A2	LinDirHis	Min	0	0	-0.001098	-8.004E-07	-0.000088	0
550	Tren A2	LinDirHis	Max	0	0	0.000003485	0.000223	7.004E-07	0
550	Tren A2	LinDirHis	Min	0	0	-0.000778	-8.622E-07	-0.000082	0
551	Tren A2	LinDirHis	Max	0	0	0.000001868	0.000173	4.558E-07	0
551	Tren A2	LinDirHis	Min	0	0	-0.000601	-8.764E-07	-0.000028	0
552	Tren A2	LinDirHis	Max	0	0	0.00000381	0.000105	3.953E-07	0
552	Tren A2	LinDirHis	Min	0	0	-0.00045	-5.768E-07	-0.000069	0
553	Tren A2	LinDirHis	Max	0	0	0.000001316	0.000062	7.393E-07	0
553	Tren A2	LinDirHis	Min	0	0	-0.000216	-6.301E-07	-0.000049	0
556	Tren A2	LinDirHis	Max	0	0	2.572E-12	0.000005358	0.000089	0
556	Tren A2	LinDirHis	Min	0	0	-0.000219	-8.25E-13	-0.000001619	0
557	Tren A2	LinDirHis	Max	0	0	0.000003589	4.355E-07	0.000107	0

Apéndice J				Flecha Dinámica Tren A2						V= 250 km/h
557	Tren A2	LinDirHis	Min	0	0	-0.002866	-0.000295	-0.000039	0	