

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	1.544E-11	0.00000275	0.000026	0
140	Tren A4	LinDirHis	Min	0	0	-0.000283	-0.000002123	-8.805E-13	0
229	Tren A4	LinDirHis	Max	0	0	5.309E-12	2.194E-08	1.852E-12	0
229	Tren A4	LinDirHis	Min	0	0	-0.000258	-0.00007	-0.000021	0
230	Tren A4	LinDirHis	Max	0	0	6.281E-12	2.907E-07	9.264E-12	0
230	Tren A4	LinDirHis	Min	0	0	-0.00027	-0.000034	-0.000011	0
231	Tren A4	LinDirHis	Max	0	0	1.237E-12	1.406E-12	0.000024	0
231	Tren A4	LinDirHis	Min	0	0	-0.000223	-0.000093	-0.000009384	0
232	Tren A4	LinDirHis	Max	0	0	0.000002247	1.232E-12	0.000053	0
232	Tren A4	LinDirHis	Min	0	0	-0.000377	-0.000109	-0.000004012	0
233	Tren A4	LinDirHis	Max	0	0	0.000003691	9.014E-13	0.000024	0
233	Tren A4	LinDirHis	Min	0	0	-0.000501	-0.000142	-0.000007134	0
234	Tren A4	LinDirHis	Max	0	0	0.000001242	2.664E-07	0.000053	0
234	Tren A4	LinDirHis	Min	0	0	-0.000566	-0.000187	-0.000011	0
235	Tren A4	LinDirHis	Max	0	0	6.076E-07	0.000000208	0.00007	0
235	Tren A4	LinDirHis	Min	0	0	-0.000792	-0.000191	-0.000007984	0
236	Tren A4	LinDirHis	Max	0	0	0.000002058	7.442E-08	0.000052	0
236	Tren A4	LinDirHis	Min	0	0	-0.000969	-0.000217	-0.000013	0
237	Tren A4	LinDirHis	Max	0	0	0.000001108	2.573E-07	0.000076	0
237	Tren A4	LinDirHis	Min	0	0	-0.001134	-0.000242	-0.000015	0
238	Tren A4	LinDirHis	Max	0	0	8.683E-07	1.986E-07	0.000079	0
238	Tren A4	LinDirHis	Min	0	0	-0.001387	-0.00024	-0.000016	0
239	Tren A4	LinDirHis	Max	0	0	0.000001974	1.413E-07	0.000072	0
239	Tren A4	LinDirHis	Min	0	0	-0.001589	-0.000257	-0.00002	0
240	Tren A4	LinDirHis	Max	0	0	0.000001924	2.996E-07	0.000087	0
240	Tren A4	LinDirHis	Min	0	0	-0.001798	-0.000266	-0.000021	0
241	Tren A4	LinDirHis	Max	0	0	0.000002042	2.951E-07	0.000087	0
241	Tren A4	LinDirHis	Min	0	0	-0.002048	-0.00026	-0.000023	0
242	Tren A4	LinDirHis	Max	0	0	0.00000282	2.727E-07	0.000086	0
242	Tren A4	LinDirHis	Min	0	0	-0.002278	-0.000264	-0.000028	0
244	Tren A4	LinDirHis	Max	0	0	0.000003194	3.646E-07	0.00009	0
244	Tren A4	LinDirHis	Min	0	0	-0.002749	-0.000249	-0.000034	0
245	Tren A4	LinDirHis	Max	0	0	0.000004124	3.502E-07	0.000092	0
245	Tren A4	LinDirHis	Min	0	0	-0.002969	-0.000242	-0.00004	0
246	Tren A4	LinDirHis	Max	0	0	0.000004753	0.000000413	0.000093	0
246	Tren A4	LinDirHis	Min	0	0	-0.003187	-0.000227	-0.000044	0
247	Tren A4	LinDirHis	Max	0	0	0.000005424	3.472E-07	0.000088	0
247	Tren A4	LinDirHis	Min	0	0	-0.003395	-0.00021	-0.000052	0
248	Tren A4	LinDirHis	Max	0	0	0.000006424	3.129E-07	0.000089	0
248	Tren A4	LinDirHis	Min	0	0	-0.003589	-0.000195	-0.000057	0
249	Tren A4	LinDirHis	Max	0	0	0.000007285	3.502E-07	0.000087	0
249	Tren A4	LinDirHis	Min	0	0	-0.003768	-0.000173	-0.000063	0
250	Tren A4	LinDirHis	Max	0	0	0.000008598	3.513E-07	0.000082	0
250	Tren A4	LinDirHis	Min	0	0	-0.003925	-0.000151	-0.000069	0
251	Tren A4	LinDirHis	Max	0	0	0.00001	0.000000349	0.000078	0
251	Tren A4	LinDirHis	Min	0	0	-0.004058	-0.000129	-0.000073	0
252	Tren A4	LinDirHis	Max	0	0	0.000011	3.535E-07	0.000074	0

252	Tren A4	LinDirHis	Min	0	0	-0.00417	-0.000102	-0.000078	0
253	Tren A4	LinDirHis	Max	0	0	0.000012	0.000000305	0.000068	0
253	Tren A4	LinDirHis	Min	0	0	-0.004259	-0.000075	-0.000083	0
254	Tren A4	LinDirHis	Max	0	0	0.000013	2.551E-07	0.000061	0
254	Tren A4	LinDirHis	Min	0	0	-0.004321	-0.00005	-0.000087	0
255	Tren A4	LinDirHis	Max	0	0	0.000013	1.915E-07	0.000055	0
255	Tren A4	LinDirHis	Min	0	0	-0.004355	-0.000023	-0.00009	0
256	Tren A4	LinDirHis	Max	0	0	0.000013	0.000016	0.000049	0
256	Tren A4	LinDirHis	Min	0	0	-0.004364	-0.000007801	-0.000093	0
257	Tren A4	LinDirHis	Max	0	0	0.000013	0.000044	0.000041	0
257	Tren A4	LinDirHis	Min	0	0	-0.004343	-0.000004487	-0.000096	0
258	Tren A4	LinDirHis	Max	0	0	0.000013	0.000072	0.000033	0
258	Tren A4	LinDirHis	Min	0	0	-0.004288	-0.000002591	-0.000097	0
259	Tren A4	LinDirHis	Max	0	0	0.000014	0.000099	0.000024	0
259	Tren A4	LinDirHis	Min	0	0	-0.004202	-0.000001748	-0.000098	0
260	Tren A4	LinDirHis	Max	0	0	0.000014	0.000126	0.000016	0
260	Tren A4	LinDirHis	Min	0	0	-0.004085	-0.000001242	-0.000098	0
261	Tren A4	LinDirHis	Max	0	0	0.000013	0.000152	0.000007735	0
261	Tren A4	LinDirHis	Min	0	0	-0.003935	-9.268E-07	-0.000097	0
262	Tren A4	LinDirHis	Max	0	0	0.000013	0.000177	0.000001587	0
262	Tren A4	LinDirHis	Min	0	0	-0.003753	-9.742E-07	-0.0001	0
263	Tren A4	LinDirHis	Max	0	0	0.000012	0.000198	0.000001551	0
263	Tren A4	LinDirHis	Min	0	0	-0.003544	-9.842E-07	-0.000101	0
264	Tren A4	LinDirHis	Max	0	0	0.000012	0.000217	0.000001448	0
264	Tren A4	LinDirHis	Min	0	0	-0.003313	-8.968E-07	-0.000101	0
265	Tren A4	LinDirHis	Max	0	0	0.00001	0.000237	0.000001398	0
265	Tren A4	LinDirHis	Min	0	0	-0.003056	-8.786E-07	-0.000103	0
266	Tren A4	LinDirHis	Max	0	0	0.000008636	0.000247	0.000001251	0
266	Tren A4	LinDirHis	Min	0	0	-0.002792	-8.942E-07	-0.0001	0
267	Tren A4	LinDirHis	Max	0	0	0.000007628	0.000255	0.000001028	0
267	Tren A4	LinDirHis	Min	0	0	-0.00251	-8.115E-07	-0.000103	0
268	Tren A4	LinDirHis	Max	0	0	0.000006527	0.000266	9.654E-07	0
268	Tren A4	LinDirHis	Min	0	0	-0.002201	-8.924E-07	-0.000101	0
269	Tren A4	LinDirHis	Max	0	0	0.000005562	0.000259	8.094E-07	0
269	Tren A4	LinDirHis	Min	0	0	-0.001922	-8.757E-07	-0.000092	0
270	Tren A4	LinDirHis	Max	0	0	0.000005434	0.000253	7.152E-07	0
270	Tren A4	LinDirHis	Min	0	0	-0.001623	-7.696E-07	-0.000098	0
271	Tren A4	LinDirHis	Max	0	0	0.000004181	0.000251	7.724E-07	0
271	Tren A4	LinDirHis	Min	0	0	-0.001309	-8.847E-07	-0.000085	0
272	Tren A4	LinDirHis	Max	0	0	0.000003527	0.00022	5.455E-07	0
272	Tren A4	LinDirHis	Min	0	0	-0.001077	-0.000000742	-0.000071	0
273	Tren A4	LinDirHis	Max	0	0	0.000003594	0.000199	5.208E-07	0
273	Tren A4	LinDirHis	Min	0	0	-0.000811	-6.007E-07	-0.00008	0
274	Tren A4	LinDirHis	Max	0	0	0.000001875	0.000177	5.774E-07	0
274	Tren A4	LinDirHis	Min	0	0	-0.000567	-7.051E-07	-0.000048	0
275	Tren A4	LinDirHis	Max	0	0	0.000002313	0.000114	2.504E-07	0
275	Tren A4	LinDirHis	Min	0	0	-0.000471	-5.489E-07	-0.000036	0
276	Tren A4	LinDirHis	Max	0	0	0.000002277	0.000075	6.254E-07	0
276	Tren A4	LinDirHis	Min	0	0	-0.000265	-4.094E-07	-0.000058	0
277	Tren A4	LinDirHis	Max	0	0	0.000004006	0.000029	0.000002421	0

277	Tren A4	LinDirHis	Min	0	0	-0.000073	-4.855E-07	-0.000007663	0
278	Tren A4	LinDirHis	Max	0	0	9.922E-07	0.000036	4.188E-07	0
278	Tren A4	LinDirHis	Min	0	0	-0.000093	-4.634E-07	-0.000044	0
279	Tren A4	LinDirHis	Max	0	0	5.806E-12	0.00000164	0.00008	0
279	Tren A4	LinDirHis	Min	0	0	-0.000143	-2.217E-07	-0.000001379	0
280	Tren A4	LinDirHis	Max	0	0	7.01E-08	6.271E-13	0.000052	0
280	Tren A4	LinDirHis	Min	0	0	-0.000308	-0.000104	-0.000004674	0
283	Tren A4	LinDirHis	Max	0	0	0.000003469	5.166E-13	0.000039	0
283	Tren A4	LinDirHis	Min	0	0	-0.000475	-0.000125	-0.000002013	0
347	Tren A4	LinDirHis	Max	0	0	0.000002619	1.084E-07	0.000023	0
347	Tren A4	LinDirHis	Min	0	0	-0.000535	-0.000172	-0.000008477	0
378	Tren A4	LinDirHis	Max	0	0	3.373E-07	2.896E-07	0.000075	0
378	Tren A4	LinDirHis	Min	0	0	-0.000686	-0.000193	-0.00000601	0
379	Tren A4	LinDirHis	Max	0	0	0.000001416	1.212E-07	0.000057	0
379	Tren A4	LinDirHis	Min	0	0	-0.000902	-0.000206	-0.000006988	0
380	Tren A4	LinDirHis	Max	0	0	0.000001753	1.306E-07	0.000058	0
380	Tren A4	LinDirHis	Min	0	0	-0.001053	-0.000238	-0.000012	0
381	Tren A4	LinDirHis	Max	0	0	7.402E-07	2.472E-07	0.000087	0
381	Tren A4	LinDirHis	Min	0	0	-0.00127	-0.000247	-0.000012	0
383	Tren A4	LinDirHis	Max	0	0	0.000001673	1.902E-07	0.000071	0
383	Tren A4	LinDirHis	Min	0	0	-0.001506	-0.000253	-0.000016	0
388	Tren A4	LinDirHis	Max	0	0	0.000001692	2.498E-07	0.000078	0
388	Tren A4	LinDirHis	Min	0	0	-0.0017	-0.00027	-0.000021	0
389	Tren A4	LinDirHis	Max	0	0	0.000001738	3.679E-07	0.000089	0
389	Tren A4	LinDirHis	Min	0	0	-0.00194	-0.000267	-0.000022	0
390	Tren A4	LinDirHis	Max	0	0	0.00000238	2.753E-07	0.000084	0
390	Tren A4	LinDirHis	Min	0	0	-0.002181	-0.000266	-0.000026	0
391	Tren A4	LinDirHis	Max	0	0	0.000003164	3.567E-07	0.00009	0
391	Tren A4	LinDirHis	Min	0	0	-0.002407	-0.000269	-0.00003	0
392	Tren A4	LinDirHis	Max	0	0	0.000003278	3.584E-07	0.00009	0
392	Tren A4	LinDirHis	Min	0	0	-0.002647	-0.000258	-0.000031	0
393	Tren A4	LinDirHis	Max	0	0	0.000004024	0.00000032	0.000091	0
393	Tren A4	LinDirHis	Min	0	0	-0.002868	-0.000251	-0.000036	0
394	Tren A4	LinDirHis	Max	0	0	0.000004486	3.638E-07	0.000091	0
394	Tren A4	LinDirHis	Min	0	0	-0.003084	-0.000243	-0.000041	0
448	Tren A4	LinDirHis	Max	0	0	0.000004596	4.135E-07	0.000089	0
448	Tren A4	LinDirHis	Min	0	0	-0.003299	-0.000225	-0.000046	0
449	Tren A4	LinDirHis	Max	0	0	0.000005199	3.737E-07	0.000087	0
449	Tren A4	LinDirHis	Min	0	0	-0.003499	-0.000209	-0.000053	0
450	Tren A4	LinDirHis	Max	0	0	0.000006063	3.885E-07	0.000086	0
450	Tren A4	LinDirHis	Min	0	0	-0.003687	-0.000187	-0.000059	0
451	Tren A4	LinDirHis	Max	0	0	0.000007082	3.861E-07	0.000083	0
451	Tren A4	LinDirHis	Min	0	0	-0.003859	-0.000163	-0.000063	0
452	Tren A4	LinDirHis	Max	0	0	0.000008526	3.521E-07	0.000079	0
452	Tren A4	LinDirHis	Min	0	0	-0.004007	-0.000141	-0.000068	0
455	Tren A4	LinDirHis	Max	0	0	0.000009961	3.512E-07	0.000074	0
455	Tren A4	LinDirHis	Min	0	0	-0.004132	-0.000117	-0.000072	0
516	Tren A4	LinDirHis	Max	0	0	0.000011	3.032E-07	0.00007	0
516	Tren A4	LinDirHis	Min	0	0	-0.004237	-0.00009	-0.000074	0
517	Tren A4	LinDirHis	Max	0	0	0.000012	2.713E-07	0.000065	0

517	Tren A4	LinDirHis	Min	0	0	-0.004314	-0.000063	-0.000079	0
518	Tren A4	LinDirHis	Max	0	0	0.000013	2.422E-07	0.000056	0
518	Tren A4	LinDirHis	Min	0	0	-0.004361	-0.000037	-0.000084	0
519	Tren A4	LinDirHis	Max	0	0	0.000014	0.000003885	0.00005	0
519	Tren A4	LinDirHis	Min	0	0	-0.00438	-0.000013	-0.000086	0
527	Tren A4	LinDirHis	Max	0	0	0.000014	0.000031	0.000043	0
527	Tren A4	LinDirHis	Min	0	0	-0.004372	-0.000005721	-0.00009	0
528	Tren A4	LinDirHis	Max	0	0	0.000015	0.000058	0.000034	0
528	Tren A4	LinDirHis	Min	0	0	-0.00433	-0.000003596	-0.000092	0
529	Tren A4	LinDirHis	Max	0	0	0.000015	0.000087	0.000027	0
529	Tren A4	LinDirHis	Min	0	0	-0.004257	-0.000002215	-0.000093	0
531	Tren A4	LinDirHis	Max	0	0	0.000015	0.000115	0.000019	0
531	Tren A4	LinDirHis	Min	0	0	-0.004152	-0.000001557	-0.000095	0
532	Tren A4	LinDirHis	Max	0	0	0.000014	0.00014	0.000009248	0
532	Tren A4	LinDirHis	Min	0	0	-0.004016	-0.000001124	-0.000096	0
533	Tren A4	LinDirHis	Max	0	0	0.000014	0.000166	0.000001496	0
533	Tren A4	LinDirHis	Min	0	0	-0.003852	-0.000001066	-0.000096	0
539	Tren A4	LinDirHis	Max	0	0	0.000013	0.000191	0.000001468	0
539	Tren A4	LinDirHis	Min	0	0	-0.003657	-9.888E-07	-0.000099	0
540	Tren A4	LinDirHis	Max	0	0	0.000012	0.000212	0.00000133	0
540	Tren A4	LinDirHis	Min	0	0	-0.003438	-0.000000973	-0.0001	0
541	Tren A4	LinDirHis	Max	0	0	0.00001	0.000233	0.000001232	0
541	Tren A4	LinDirHis	Min	0	0	-0.003197	-0.000001005	-0.000103	0
542	Tren A4	LinDirHis	Max	0	0	0.000008908	0.000248	0.000001211	0
542	Tren A4	LinDirHis	Min	0	0	-0.002937	-0.000001018	-0.000103	0
543	Tren A4	LinDirHis	Max	0	0	0.000007689	0.000255	0.000001065	0
543	Tren A4	LinDirHis	Min	0	0	-0.002669	-0.000000841	-0.000103	0
544	Tren A4	LinDirHis	Max	0	0	0.000006957	0.000266	9.312E-07	0
544	Tren A4	LinDirHis	Min	0	0	-0.002372	-8.065E-07	-0.000105	0
545	Tren A4	LinDirHis	Max	0	0	0.000005917	0.000269	0.000000868	0
545	Tren A4	LinDirHis	Min	0	0	-0.002075	-8.686E-07	-0.000094	0
546	Tren A4	LinDirHis	Max	0	0	0.000005297	0.000258	7.151E-07	0
546	Tren A4	LinDirHis	Min	0	0	-0.001794	-8.206E-07	-0.000093	0
547	Tren A4	LinDirHis	Max	0	0	0.000004865	0.000258	6.821E-07	0
547	Tren A4	LinDirHis	Min	0	0	-0.001475	-8.107E-07	-0.000096	0
548	Tren A4	LinDirHis	Max	0	0	0.000003617	0.000242	6.282E-07	0
548	Tren A4	LinDirHis	Min	0	0	-0.001202	-8.954E-07	-0.000068	0
549	Tren A4	LinDirHis	Max	0	0	0.000003303	0.000212	4.485E-07	0
549	Tren A4	LinDirHis	Min	0	0	-0.000965	-7.445E-07	-0.000075	0
550	Tren A4	LinDirHis	Max	0	0	0.000002765	0.000195	6.064E-07	0
550	Tren A4	LinDirHis	Min	0	0	-0.000685	-7.223E-07	-0.00007	0
551	Tren A4	LinDirHis	Max	0	0	0.000001551	0.000151	3.549E-07	0
551	Tren A4	LinDirHis	Min	0	0	-0.000531	-7.412E-07	-0.000023	0
552	Tren A4	LinDirHis	Max	0	0	0.000003164	0.000093	3.189E-07	0
552	Tren A4	LinDirHis	Min	0	0	-0.000394	-4.967E-07	-0.000059	0
553	Tren A4	LinDirHis	Max	0	0	0.000001073	0.000055	0.000000608	0
553	Tren A4	LinDirHis	Min	0	0	-0.00019	-5.239E-07	-0.000042	0
556	Tren A4	LinDirHis	Max	0	0	7.391E-12	0.000003399	0.000088	0
556	Tren A4	LinDirHis	Min	0	0	-0.000165	-2.083E-12	-0.000001538	0
557	Tren A4	LinDirHis	Max	0	0	0.000002757	3.754E-07	0.000093	0

Apéndice U				Flecha Dinámica Tren A4						V= 280 km/h
557	Tren A4	LinDirHis	Min	0	0	-0.002513	-0.000259	-0.00003	0	