Ersatzgrößen der Längsbewegung

	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3	F1	F2	F3
X_u	0.0055	0.0015	-0.0050	-0.0283	-0.0050	-0.0087	0.0192	0.0045	-0.0042	-0.0049	-0.0161	-0.0162	-0.0616	-0.0711	-0.0155
X_α	9.4411	10.1950	3.5092	8.8006	8.4637	0.4960	-0.3627	3.4353	5.7566	8.1008	13.1954	10.6155	4.8837	11.0221	6.7344
$X_{\dot\alpha}$	0.0804	0.0606	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	0.0119	0.0157	0.0016	-0.0000	-0.0000	-0.0000
X_q	0.2572	0.1928	-0.0000	-0.0000	-0.0000	-0.0000	0.6757	0.4876	0.3359	0.0342	0.0744	0.0077	-0.0000	-0.0000	-0.0000
X_Θ	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066	-9.8066
X_η	-0.0209	0.0358	-0.1956	0.2828	0.3715	0.1928	-2.2852	-1.9203	-0.2452	0.0706	0.2987	0.0432	0.3151	2.2084	2.2073
X_f	3.4769	3.4769	3.4769	3.2080	3.2080	3.2080	4.5067	4.5067	4.5067	2.6048	2.6048	2.6048	9.5483	9.5483	9.5483
X_κ	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
Z_u	-0.0033	-0.0011	-0.0003	-0.0031	-0.0010	-0.0003	-0.0028	-0.0004	-0.0000	-0.0070	-0.0019	-0.0009	-0.0022	-0.0001	-0.0000
Z_α	-0.5282	-0.5712	-0.6802	-0.5144	-0.7102	-0.6126	-0.4953	-0.4693	-0.2427	-0.8219	-1.4077	-1.8531	-0.4909	-2.8466	-0.4559
$Z_{\dot\alpha}$	-0.0007	-0.0003	-0.0001	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0003	-0.0001	-0.0001	-0.0000	-0.0000	-0.0000
Z_q	-0.0244	-0.0210	-0.0104	-0.0000	-0.0000	-0.0000	-0.0254	-0.0175	-0.0073	-0.0203	-0.0203	-0.0191	-0.0000	-0.0000	-0.0000
Z_Θ	-0.0108	-0.0052	-0.0000	-0.0021	-0.0016	0.0011	-0.0302	-0.0038	-0.0014	0.0038	-0.0084	-0.0002	0.0014	-0.0005	-0.0009
Z_η	-0.0393	-0.0474	-0.0211	-0.0298	-0.0396	-0.0251	-0.1119	-0.1433	-0.0187	-0.0419	-0.0815	-0.1073	-0.0897	-0.3383	-0.0715
Z_f	-0.0017	-0.0010	-0.0005	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	0.0013	0.0007	0.0005	-0.0000	-0.0000	-0.0000
Z_κ	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000	-0.0000
M_u	-0.0005	-0.0003	-0.0002	-0.0023	0.0018	0.0008	-0.0002	0.0000	-0.0000	0.0030	0.0066	0.0106	0.0000	0.0067	-0.0010
M_α	-0.6718	-0.9568	-2.5335	-0.6645	-1.3863	-2.4414	-0.0987	-0.6342	-1.6905	-1.4635	-5.0481	-10.0722	-2.0002	-102.7739	-22.8276
$M_{\dot\alpha}$	-0.2494	-0.3375	-0.5068	-0.2349	-0.3232	-0.2864	0.0000	0.0000	0.0000	-0.2870	-0.3395	-0.4372	-0.0831	-0.7552	-0.1970
M_q	-0.9009	-1.2074	-1.5451	-0.8984	-1.2160	-0.9940	-0.1846	-0.3492	-0.1406	-1.1505	-2.0177	-2.6481	-0.3846	-2.6655	-0.5207
M_η	-0.9427	-1.9739	-1.8070	-0.7544	-1.6203	-1.8903	-0.5194	-3.1026	-1.1249	-1.6654	-6.2898	-11.5849	-4.5629	-59.9515	-22.8276
M_f	0.1138	0.1138	0.1138	-0.0700	-0.0700	-0.0700	0.0261	0.0261	0.0261	-0.0952	-0.0952	-0.0952	0.0000	0.0000	0.0000
M_κ	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
M_{Wx}	-0.4021	-0.5323	-0.5314	-0.4285	-0.5697	-0.4212	-0.1846	-0.3492	-0.1406	-0.5766	-1.3387	-1.7738	-0.2183	-1.1551	-0.1267

Ersatzgrößen der Seitenbewegung

	A1	A2	A3	B1	B2	B3	C1	C2	C3	D1	D2	D3	F1	F2	F3
Y_β	-0.0970	-0.1236	-0.1252	-0.0747	-0.1163	-0.1002	-0.0439	-0.0566	-0.0519	-0.1481	-0.2836	-0.3674	-0.1543	-0.7330	-0.1786
$Y_{\dot\beta}$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Y_p	0.0179	0.0037	-0.0008	-0.0081	-0.0066	-0.0030	0.0009	0.0004	0.0001	0.0035	0.0036	0.0024	0.0000	0.0000	0.0000
Y_r	0.0170	0.0134	0.0063	0.0148	0.0128	0.0062	0.0064	0.0026	0.0009	0.0136	0.0133	0.0128	0.0000	0.0000	0.0000
Y_ξ	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0169	0.0215	0.0035	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
Y_ζ	0.0225	0.0275	0.0192	0.0320	0.0450	0.0324	0.0164	0.0275	0.0055	0.0495	0.0887	0.1196	0.0274	0.0620	0.0089
L_β	-1.3807	-2.7559	-6.4291	-1.9035	-2.6774	-3.1744	2.9947	-0.8162	-6.0558	-1.4881	-6.6017	-12.5629	-36.1293	-697.3325	-114.2144
$L_{\dot\beta}$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
L_p	-0.7735	-0.9562	-1.0140	-1.1433	-1.4546	-1.2549	-0.1303	-0.1390	-0.0930	-1.4277	-2.8322	-3.8393	-5.2863	-28.0101	-6.9576
L_r	0.7747	0.4495	0.3348	3.4791	1.7773	0.9058	0.0520	0.0219	0.0160	0.4215	0.8519	0.8965	4.1951	26.8280	2.1609
L_ξ	-0.2586	-0.5257	-0.5187	-0.4532	-1.0854	-1.5116	-1.0746	-5.0391	-2.1381	-2.0418	-7.6954	-14.1408	-9.2852	-164.2965	-32.6517
L_ζ	0.0730	0.2729	0.4796	0.1450	0.3308	0.4397	0.1779	0.9617	0.4387	0.4367	1.6312	3.7123	8.9545	103.6580	13.4072
N_β	0.3684	0.8923	2.4005	0.4128	0.7507	1.2517	0.0923	0.3832	0.5323	1.4719	3.3531	6.7190	5.4549	77.2704	15.5474
$N_{\dot\beta}$	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000
N_p	-0.2200	-0.1440	-0.1099	-0.2164	-0.1423	-0.0958	-0.0022	-0.0028	-0.0020	-0.1874	-0.3728	-0.4037	-0.3903	-1.3790	-0.4166
N_r	-0.2308	-0.2643	-0.2589	-0.1659	-0.2329	-0.2044	-0.0203	-0.0278	-0.0217	-0.3349	-0.6348	-0.8539	-0.6245	-4.3547	-0.7840
N_ξ	-0.0245	-0.0530	-0.1003	0.0000	0.0000	0.0000	-0.0516	-0.2933	-0.1396	-0.1431	-0.4085	-0.8674	-0.4754	-12.8446	-1.7311
N_ζ	-0.3551	-0.7514	-1.0615	-0.3831	-0.8737	-1.1614	-0.0928	-0.4587	-0.2145	-1.1502	-4.1151	-7.7038	-1.8631	-18.6219	-4.5699