

RT-flex58T-D

External forces and moments

Crankshaft type : Forged / Hollow crank pin

Rating R1 : 2260 kW/Cyl. / 105 rpm , Standard Tier2-EO Tuning

Engine Type		5RT-flex58T-D	6RT-flex58T-D	7RT-flex58T-D	8RT-flex58T-D
Speed		105 rpm	105 rpm	105 rpm	105 rpm
Power		11300 kW	13560 kW	15820 kW	18080 kW
Massmoments / Forces					
Free Forces					
F1v	[±kN]	0	0	0	0
F1h	[±kN]	0	0	0	0
F2v	[±kN]	0	0	0	0
F4v	[±kN]	0	0	0	0
External Moments					
M1v	[±kNm]	172	0	103	336
M1h	[±kNm]	130	0	77	267
M2v *)	[±kNm]	1953	1359	394	0
M4v	[±kNm]	14	111	316	128
Lateral H-Moments M_{LH}					
Ord.1	[±kNm]	0	0	0	0
Ord.2	[±kNm]	0	0	0	0
Ord.3	[±kNm]	0	0	0	0
Ord.4	[±kNm]	0	0	0	0
Ord.5	[±kNm]	1236	0	0	0
Ord.6	[±kNm]	0	898	0	0
Ord.7	[±kNm]	0	0	701	0
Ord.8	[±kNm]	0	0	0	475
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	97	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	15	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	145	0	86	289
Ord.2	[±kNm]	104	72	21	0
Ord.3	[±kNm]	141	254	278	356
Ord.4	[±kNm]	47	366	1040	423
Ord.5	[±kNm]	0	0	80	1009
Ord.6	[±kNm]	18	0	11	0
Ord.7	[±kNm]	146	0	0	26
Ord.8	[±kNm]	80	56	4	0
Ord.9	[±kNm]	4	77	9	8
Ord.10	[±kNm]	0	20	58	0
Ord.11	[±kNm]	1	0	21	27
Ord.12	[±kNm]	2	0	0	1
Torque variation [±kNm]		1268	911	709	479

* No engine fitted 2nd order balancer available. If reduction of M2v is needed, an external compensator has to be applied.

The values for other engine ratings are available on request

The resulting lateral guide force can be calculated as follows: $FL = MLH \times 0.289$ [kN]

RT-flex58T-D

External forces and moments

Crankshaft type : Forged / Hollow crank pin

Rating R1 : 2260 kW/Cyl. / 105 rpm , Delta Tier2-EO Tuning

Engine Type			5RT-flex58T-D	6RT-flex58T-D	7RT-flex58T-D	8RT-flex58T-D
Speed			105 rpm	105 rpm	105 rpm	105 rpm
Power			11300 kW	13560 kW	15820 kW	18080 kW
Massmoments / Forces						
Free Forces						
F1v	[±kN]		0	0	0	0
F1h	[±kN]		0	0	0	0
F2v	[±kN]		0	0	0	0
F4v	[±kN]		0	0	0	0
External Moments						
M1v	[±kNm]		172	0	103	336
M1h	[±kNm]		130	0	77	267
M2v *)	[±kNm]		1953	1359	394	0
M4v	[±kNm]		14	111	316	128
Lateral H-Moments M_{LH}						
Ord.1	[±kNm]		0	0	0	0
Ord.2	[±kNm]		0	0	0	0
Ord.3	[±kNm]		0	0	0	0
Ord.4	[±kNm]		0	0	0	0
Ord.5	[±kNm]		1210	0	0	0
Ord.6	[±kNm]		0	871	0	0
Ord.7	[±kNm]		0	0	677	0
Ord.8	[±kNm]		0	0	0	452
Ord.9	[±kNm]		0	0	0	0
Ord.10	[±kNm]		88	0	0	0
Ord.11	[±kNm]		0	0	0	0
Ord.12	[±kNm]		0	10	0	0
Lateral X-Moments M_{LX}						
Ord.1	[±kNm]		144	0	86	287
Ord.2	[±kNm]		115	80	23	0
Ord.3	[±kNm]		148	268	293	376
Ord.4	[±kNm]		47	361	1025	417
Ord.5	[±kNm]		0	0	79	988
Ord.6	[±kNm]		18	0	11	0
Ord.7	[±kNm]		141	0	0	25
Ord.8	[±kNm]		76	53	4	0
Ord.9	[±kNm]		4	70	8	7
Ord.10	[±kNm]		0	18	53	0
Ord.11	[±kNm]		1	0	18	24
Ord.12	[±kNm]		0	0	0	0
Torque variation						
	[±kNm]		1242	886	686	458

* No engine fitted 2nd order balancer available. If reduction of M2v is needed, an external compensator has to be applied.

The values for other engine ratings are available on request

The resulting lateral guide force can be calculated as follows: FL=MLH x 0.289 [kN]

RT-flex58T-D

External forces and moments

Crankshaft type : Forged / Hollow crank pin

Rating R1 : 2260 kW/Cyl. / 105 rpm , Standard Tier2-CO Tuning

Engine Type		5RT-flex58T-D	6RT-flex58T-D	7RT-flex58T-D	8RT-flex58T-D
Speed		105 rpm	105 rpm	105 rpm	105 rpm
Power		11300 kW	13560 kW	15820 kW	18080 kW
Massmoments / Forces					
Free Forces					
F1v	[±kN]	0	0	0	0
F1h	[±kN]	0	0	0	0
F2v	[±kN]	0	0	0	0
F4v	[±kN]	0	0	0	0
External Moments					
M1v	[±kNm]	172	0	103	336
M1h	[±kNm]	130	0	77	267
M2v *)	[±kNm]	1953	1359	394	0
M4v	[±kNm]	14	111	316	128
Lateral H-Moments M_{LH}					
Ord.1	[±kNm]	0	0	0	0
Ord.2	[±kNm]	0	0	0	0
Ord.3	[±kNm]	0	0	0	0
Ord.4	[±kNm]	0	0	0	0
Ord.5	[±kNm]	1238	0	0	0
Ord.6	[±kNm]	0	901	0	0
Ord.7	[±kNm]	0	0	704	0
Ord.8	[±kNm]	0	0	0	482
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	103	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	21	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	145	0	86	290
Ord.2	[±kNm]	103	71	21	0
Ord.3	[±kNm]	135	244	267	342
Ord.4	[±kNm]	47	364	1035	420
Ord.5	[±kNm]	0	0	81	1014
Ord.6	[±kNm]	18	0	11	0
Ord.7	[±kNm]	146	0	0	26
Ord.8	[±kNm]	82	57	4	0
Ord.9	[±kNm]	4	80	9	8
Ord.10	[±kNm]	0	21	61	0
Ord.11	[±kNm]	1	0	24	31
Ord.12	[±kNm]	3	0	1	2
Torque variation	[±kNm]	1273	917	715	489

* No engine fitted 2nd order balancer available. If reduction of M2v is needed, an external compensator has to be applied.

The values for other engine ratings are available on request

The resulting lateral guide force can be calculated as follows: FL=MLH x 0.289 [kN]

RT-flex58T-D

External forces and moments

Crankshaft type : Forged / Hollow crank pin

Rating R1 : 2260 kW/Cyl. / 105 rpm , Delta Tier2-CO Tuning

Engine Type		5RT-flex58T-D	6RT-flex58T-D	7RT-flex58T-D	8RT-flex58T-D
Speed		105 rpm	105 rpm	105 rpm	105 rpm
Power		11300 kW	13560 kW	15820 kW	18080 kW
Massmoments / Forces					
Free Forces					
F1v	[±kN]	0	0	0	0
F1h	[±kN]	0	0	0	0
F2v	[±kN]	0	0	0	0
F4v	[±kN]	0	0	0	0
External Moments					
M1v	[±kNm]	172	0	103	336
M1h	[±kNm]	130	0	77	267
M2v *)	[±kNm]	1953	1359	394	0
M4v	[±kNm]	14	111	316	128
Lateral H-Moments M_{LH}					
Ord.1	[±kNm]	0	0	0	0
Ord.2	[±kNm]	0	0	0	0
Ord.3	[±kNm]	0	0	0	0
Ord.4	[±kNm]	0	0	0	0
Ord.5	[±kNm]	1215	0	0	0
Ord.6	[±kNm]	0	875	0	0
Ord.7	[±kNm]	0	0	679	0
Ord.8	[±kNm]	0	0	0	458
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	92	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	13	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	145	0	86	289
Ord.2	[±kNm]	112	78	23	0
Ord.3	[±kNm]	144	260	285	365
Ord.4	[±kNm]	47	360	1022	415
Ord.5	[±kNm]	0	0	79	996
Ord.6	[±kNm]	18	0	11	0
Ord.7	[±kNm]	141	0	0	25
Ord.8	[±kNm]	78	54	4	0
Ord.9	[±kNm]	4	72	8	7
Ord.10	[±kNm]	0	19	55	0
Ord.11	[±kNm]	1	0	20	26
Ord.12	[±kNm]	1	0	0	1
Torque variation	[±kNm]	1250	893	693	467

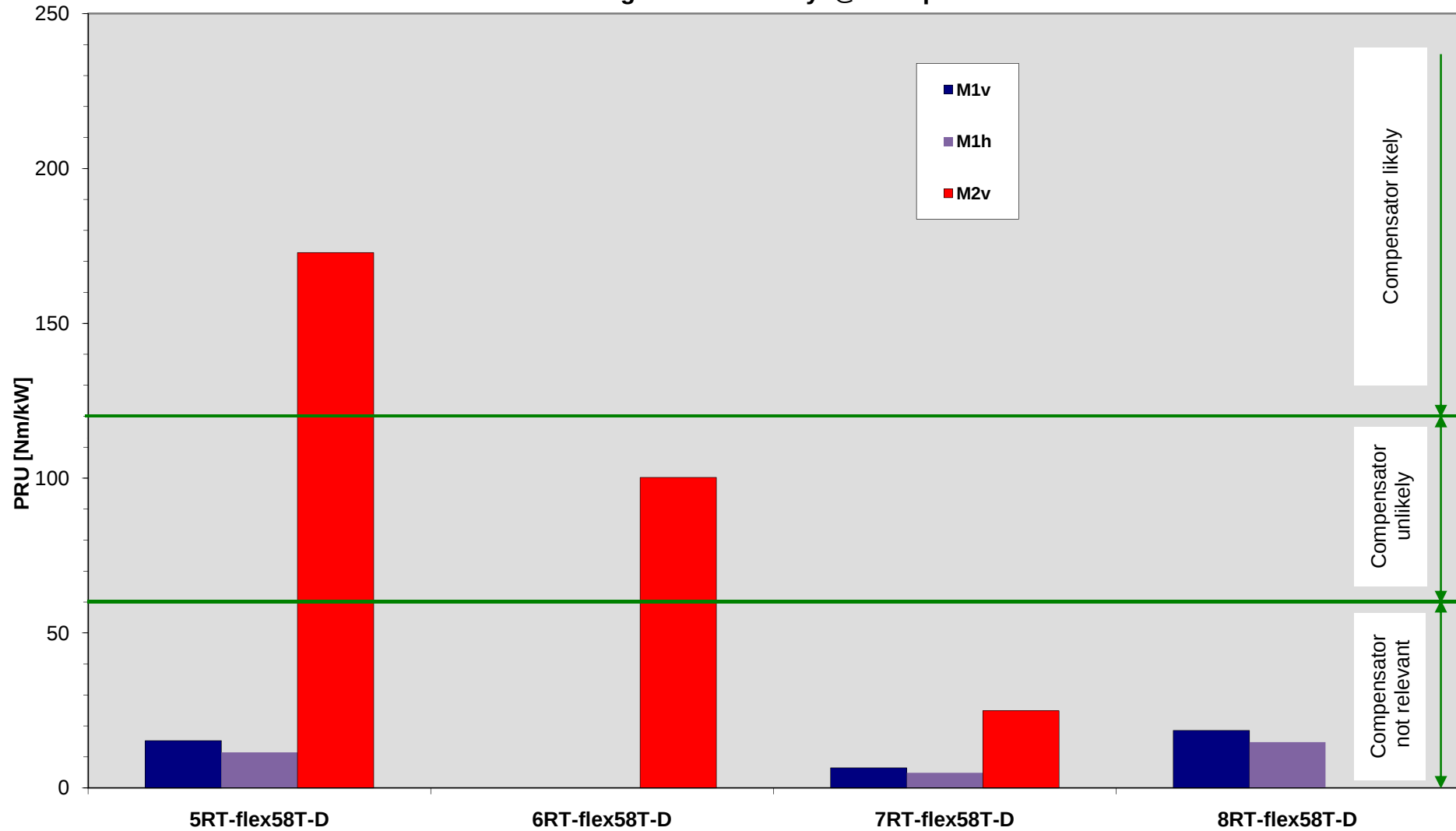
* No engine fitted 2nd order balancer available. If reduction of M2v is needed, an external compensator has to be applied.

The values for other engine ratings are available on request

The resulting lateral guide force can be calculated as follows: FL=MLH x 0.289 [kN]

5-8 RT-flex58T-D / Free external mass moments
Power Related Unbalance (PRU)
Rating R1 2260 kW/Cyl @ 105 rpm

Crankshaft type: Forged / Hollow crank pin



RT-flex58T-D

External forces and moments

Crankshaft type : Forged / Full crank pin

Rating R1 : 2260 kW/Cyl. / 105 rpm , Standard Tier2-EO Tuning

Engine Type			5RT-flex58T-D	6RT-flex58T-D	7RT-flex58T-D	8RT-flex58T-D
Speed			105 rpm	105 rpm	105 rpm	105 rpm
Power			11300 kW	13560 kW	15820 kW	18080 kW
Massmoments / Forces						
Free Forces						
F1v	[±kN]		0	0	0	0
F1h	[±kN]		0	0	0	0
F2v	[±kN]		0	0	0	0
F4v	[±kN]		0	0	0	0
External Moments						
M1v	[±kNm]		202	0	121	397
M1h	[±kNm]		100	0	59	206
M2v *)	[±kNm]		1953	1359	394	0
M4v	[±kNm]		14	111	316	128
Lateral H-Moments M_{LH}						
Ord.1	[±kNm]		0	0	0	0
Ord.2	[±kNm]		0	0	0	0
Ord.3	[±kNm]		0	0	0	0
Ord.4	[±kNm]		0	0	0	0
Ord.5	[±kNm]		1236	0	0	0
Ord.6	[±kNm]		0	898	0	0
Ord.7	[±kNm]		0	0	701	0
Ord.8	[±kNm]		0	0	0	475
Ord.9	[±kNm]		0	0	0	0
Ord.10	[±kNm]		97	0	0	0
Ord.11	[±kNm]		0	0	0	0
Ord.12	[±kNm]		0	15	0	0
Lateral X-Moments M_{LX}						
Ord.1	[±kNm]		145	0	86	289
Ord.2	[±kNm]		104	72	21	0
Ord.3	[±kNm]		141	254	278	356
Ord.4	[±kNm]		47	366	1040	423
Ord.5	[±kNm]		0	0	80	1009
Ord.6	[±kNm]		18	0	11	0
Ord.7	[±kNm]		146	0	0	26
Ord.8	[±kNm]		80	56	4	0
Ord.9	[±kNm]		4	77	9	8
Ord.10	[±kNm]		0	20	58	0
Ord.11	[±kNm]		1	0	21	27
Ord.12	[±kNm]		2	0	0	1
Torque variation						
	[±kNm]		1268	911	709	479

* No engine fitted 2nd order balancer available. If reduction of M2v is needed, an external compensator has to be applied.

The values for other engine ratings are available on request

The resulting lateral guide force can be calculated as follows: FL=MLH x 0.289 [kN]

RT-flex58T-D

External forces and moments

Crankshaft type : Forged / Full crank pin

Rating R1 : 2260 kW/Cyl. / 105 rpm , Delta Tier2-EO Tuning

Engine Type		5RT-flex58T-D	6RT-flex58T-D	7RT-flex58T-D	8RT-flex58T-D
Speed		105 rpm	105 rpm	105 rpm	105 rpm
Power		11300 kW	13560 kW	15820 kW	18080 kW
Massmoments / Forces					
Free Forces					
F1v	[±kN]	0	0	0	0
F1h	[±kN]	0	0	0	0
F2v	[±kN]	0	0	0	0
F4v	[±kN]	0	0	0	0
External Moments					
M1v	[±kNm]	202	0	121	397
M1h	[±kNm]	100	0	59	206
M2v *)	[±kNm]	1953	1359	394	0
M4v	[±kNm]	14	111	316	128
Lateral H-Moments M_{LH}					
Ord.1	[±kNm]	0	0	0	0
Ord.2	[±kNm]	0	0	0	0
Ord.3	[±kNm]	0	0	0	0
Ord.4	[±kNm]	0	0	0	0
Ord.5	[±kNm]	1210	0	0	0
Ord.6	[±kNm]	0	871	0	0
Ord.7	[±kNm]	0	0	677	0
Ord.8	[±kNm]	0	0	0	452
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	88	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	10	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	144	0	86	287
Ord.2	[±kNm]	115	80	23	0
Ord.3	[±kNm]	148	268	293	376
Ord.4	[±kNm]	47	361	1025	417
Ord.5	[±kNm]	0	0	79	988
Ord.6	[±kNm]	18	0	11	0
Ord.7	[±kNm]	141	0	0	25
Ord.8	[±kNm]	76	53	4	0
Ord.9	[±kNm]	4	70	8	7
Ord.10	[±kNm]	0	18	53	0
Ord.11	[±kNm]	1	0	18	24
Ord.12	[±kNm]	0	0	0	0
Torque variation					
	[±kNm]	1242	886	686	458

* No engine fitted 2nd order balancer available. If reduction of M2v is needed, an external compensator has to be applied.

The values for other engine ratings are available on request

The resulting lateral guide force can be calculated as follows: FL=MLH x 0.289 [kN]

RT-flex58T-D

External forces and moments

Crankshaft type : Forged / Full crank pin

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Speed		105 rpm	105 rpm	105 rpm	105 rpm
Power		11300 kW	13560 kW	15820 kW	18080 kW
Massmoments / Forces					
Free Forces					
F1v	[±kN]	0	0	0	0
F1h	[±kN]	0	0	0	0
F2v	[±kN]	0	0	0	0
F4v	[±kN]	0	0	0	0
External Moments					
M1v	[±kNm]	202	0	121	397
M1h	[±kNm]	100	0	59	206
M2v *)	[±kNm]	1953	1359	394	0
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Lateral H-Moments M_{LH}					
Ord.1	[±kNm]	0	0	0	0
Ord.2	[±kNm]	0	0	0	0
Ord.3	[±kNm]	0	0	0	0
Ord.4	[±kNm]	0	0	0	0
Ord.5	[±kNm]	1238	0	0	0
Ord.6	[±kNm]	0	901	0	0
Ord.7	[±kNm]	0	0	704	0
Ord.8	[±kNm]	0	0	0	482
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	103	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	21	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	145	0	86	290
Ord.2	[±kNm]	103	71	21	0
Ord.3	[±kNm]	135	244	267	342
Ord.4	[±kNm]	47	364	1035	420
Ord.5	[±kNm]	0	0	81	1014
Ord.6	[±kNm]	18	0	11	0
Ord.7	[±kNm]	146	0	0	26
Ord.8	[±kNm]	82	57	4	0
Ord.9	[±kNm]	4	80	9	8
Ord.10	[±kNm]	0	21	61	0
Ord.11	[±kNm]	1	0	24	31
Ord.12	[±kNm]	3	0	1	2
Torque variation	[±kNm]	1273	917	715	489

* No engine fitted 2nd order balancer available. If reduction of M2v is needed, an external compensator has to be applied.

The values for other engine ratings are available on request

The resulting lateral guide force can be calculated as follows: FL=MLH x 0.289 [kN]

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External forces and moments

Crankshaft type : Forged / Full crank pin

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Power			11300 kW	13560 kW	15820 kW	18080 kW
Massmoments / Forces						
Free Forces						
F1v	[±kN]		0	0	0	0
F1h	[±kN]		0	0	0	0
F2v	[±kN]		0	0	0	0
F4v	[±kN]		0	0	0	0
External Moments						
M1v	[±kNm]		202	0	121	397
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M2v *)	[±kNm]		1953	1359	394	0
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Lateral H-Moments M_{LH}						
Ord.1	[±kNm]		0	0	0	0
Ord.2	[±kNm]		0	0	0	0
Ord.3	[±kNm]		0	0	0	0
Ord.4	[±kNm]		0	0	0	0
Ord.5	[±kNm]		1215	0	0	0
Ord.6	[±kNm]		0	875	0	0
Ord.7	[±kNm]		0	0	679	0
Ord.8	[±kNm]		0	0	0	458
Ord.9	[±kNm]		0	0	0	0
Ord.10	[±kNm]		92	0	0	0
Ord.11	[±kNm]		0	0	0	0
Ord.12	[±kNm]		0	13	0	0
Lateral X-Moments M_{LX}						
Ord.1	[±kNm]		145	0	86	289
Ord.2	[±kNm]		112	78	23	0
Ord.3	[±kNm]		144	260	285	365
Ord.4	[±kNm]		47	360	1022	415
Ord.5	[±kNm]		0	0	79	996
Ord.6	[±kNm]		18	0	11	0
Ord.7	[±kNm]		141	0	0	25
Ord.8	[±kNm]		78	54	4	0
Ord.9	[±kNm]		4	72	8	7
Ord.10	[±kNm]		0	19	55	0
Ord.11	[±kNm]		1	0	20	26
Ord.12	[±kNm]		1	0	0	1
Torque variation						
	[±kNm]		1250	893	693	467

* No engine fitted 2nd order balancer available. If reduction of M2v is needed, an external compensator has to be applied.

The values for other engine ratings are available on request

The resulting lateral guide force can be calculated as follows: FL=MLH x 0.289 [kN]

5-8 RT-flex58T-D / Free external mass moments
Power Related Unbalance (PRU)
Rating R1 2260 kW/Cyl @ 105 rpm

Crankshaft type: Forged / Full crank pin

