

RT-flex58T-E

External forces and moments

Crankshaft type : Forged / Hollow crank pin

Rating R1 : 2350 kW/Cyl. / 105 rpm , Standard Tier2-EO Tuning

Engine Type		5RT-flex58T-E	6RT-flex58T-E	7RT-flex58T-E	8RT-flex58T-E	
Speed		105 rpm	105 rpm	105 rpm	105 rpm	
Power		11750 kW	14100 kW	16450 kW	18800 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]	1267	0	0	0	
Ord.6	[±kNm]	0	927	0	0	
Ord.7	[±kNm]	0	0	734	0	
Ord.8	[±kNm]	0	0	0	510	
Ord.9	[±kNm]	0	0	0	0	
Ord.10	[±kNm]	113	0	0	0	
Ord.11	[±kNm]	0	0	0	0	
Ord.12	[±kNm]	0	26	0	0	
Lateral X-Moments M_{LX}						
Ord.1	[±kNm]	147	0	87	294	
Ord.2	[±kNm]	94	66	19	0	
Ord.3	[±kNm]	140	253	276	354	
Ord.4	[±kNm]	48	373	1061	431	
Ord.5	[±kNm]	0	0	82	1033	
Ord.6	[±kNm]	19	0	11	0	
Ord.7	[±kNm]	153	0	0	28	
Ord.8	[±kNm]	87	60	5	0	
Ord.9	[±kNm]	4	88	10	9	
Ord.10	[±kNm]	0	23	67	0	
Ord.11	[±kNm]	1	0	25	33	
Ord.12	[±kNm]	5	0	1	4	
Torque variation		[±kNm]	1298	937	737	509

* 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-E

External forces and moments

Crankshaft type : Forged / Hollow crank pin

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Speed		105 rpm	105 rpm	105 rpm	105 rpm	
Power		11750 kW	14100 kW	16450 kW	18800 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]	1242	0	0	0	
Ord.6	[±kNm]	0	901	0	0	
Ord.7	[±kNm]	0	0	711	0	
Ord.8	[±kNm]	0	0	0	490	
Ord.9	[±kNm]	0	0	0	0	
Ord.10	[±kNm]	105	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]	146	0	87	292	
Ord.2	[±kNm]	104	72	21	0	
Ord.3	[±kNm]	145	262	287	367	
Ord.4	[±kNm]	48	368	1044	424	
Ord.5	[±kNm]	0	0	81	1013	
Ord.6	[±kNm]	18	0	11	0	
Ord.7	[±kNm]	148	0	0	27	
Ord.8	[±kNm]	83	58	4	0	
Ord.9	[±kNm]	4	83	9	8	
Ord.10	[±kNm]	0	22	62	0	
Ord.11	[±kNm]	1	0	23	29	
Ord.12	[±kNm]	3	0	1	3	
Torque variation		[±kNm]	1273	912	714	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-E

External forces and moments

Crankshaft type : Forged / Hollow crank pin

Rating R1 : 2350 kW/Cyl. / 105 rpm , LLT-WG Tier2-EO Tuning

Engine Type		5RT-flex58T-E	6RT-flex58T-E	7RT-flex58T-E	8RT-flex58T-E	
Speed		105 rpm	105 rpm	105 rpm	105 rpm	
Power		11750 kW	14100 kW	16450 kW	18800 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]	1242	0	0	0	
Ord.6	[±kNm]	0	901	0	0	
Ord.7	[±kNm]	0	0	710	0	
Ord.8	[±kNm]	0	0	0	492	
Ord.9	[±kNm]	0	0	0	0	
Ord.10	[±kNm]	106	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]	146	0	87	292	
Ord.2	[±kNm]	103	71	21	0	
Ord.3	[±kNm]	145	262	287	368	
Ord.4	[±kNm]	48	367	1044	424	
Ord.5	[±kNm]	0	0	81	1014	
Ord.6	[±kNm]	18	0	11	0	
Ord.7	[±kNm]	148	0	0	27	
Ord.8	[±kNm]	84	58	4	0	
Ord.9	[±kNm]	4	83	9	8	
Ord.10	[±kNm]	0	22	63	0	
Ord.11	[±kNm]	1	0	24	30	
Ord.12	[±kNm]	3	0	1	3	
Torque variation		[±kNm]	1273	912	714	490

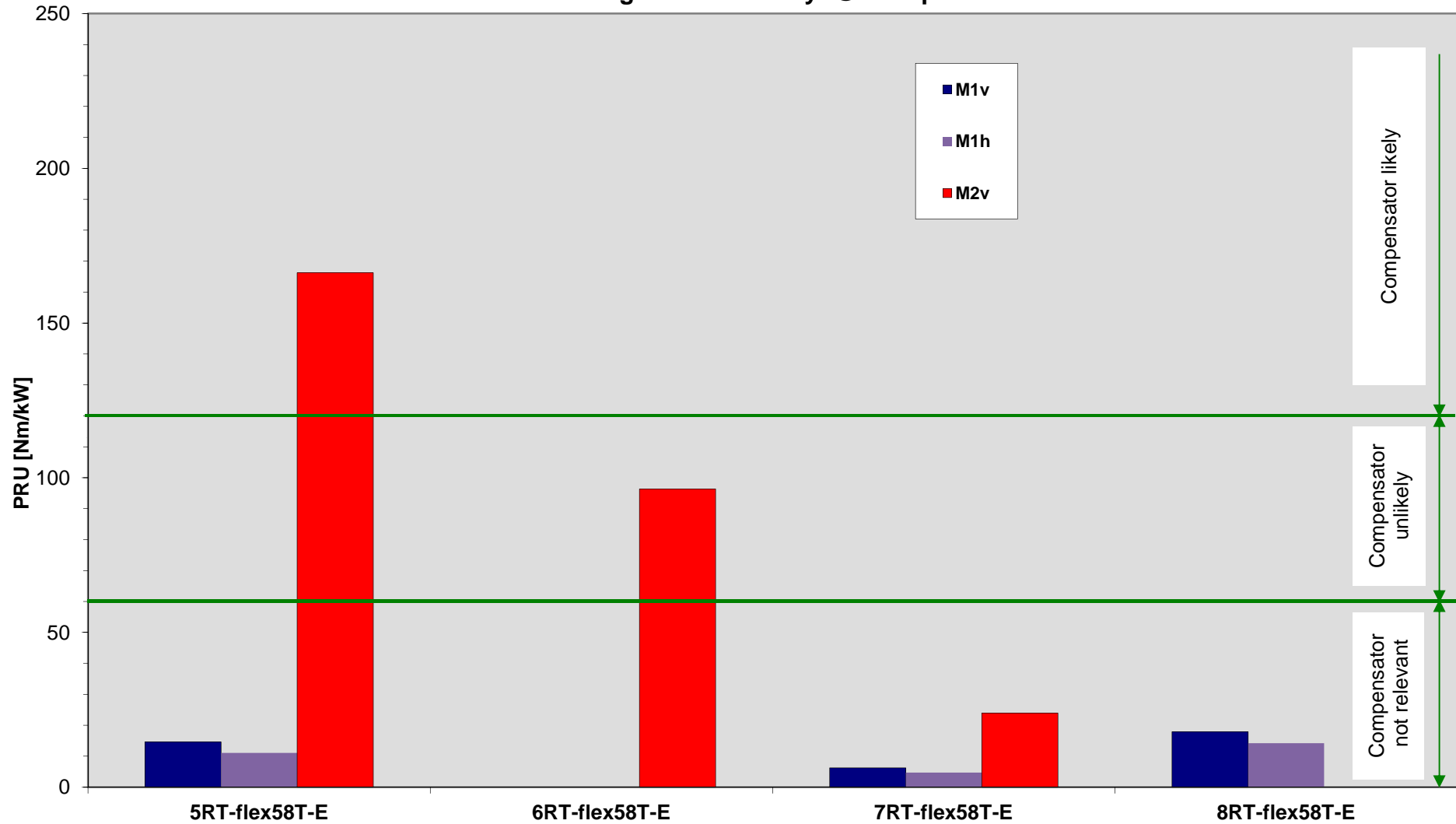
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The values for other engine ratings are available on request

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

5-8 RT-flex58T-E / Free external mass moments Power Related Unbalance (PRU) Rating R1 2350 kW/Cyl @ 105 rpm

Crankshaft type: Forged / Hollow crank pin



RT-flex58T-E

External forces and moments

Crankshaft type : Forged / Full crank pin

Rating R1 : 2350 kW/Cyl. / 105 rpm , Standard Tier2-EO Tuning

Engine Type		5RT-flex58T-E	6RT-flex58T-E	7RT-flex58T-E	8RT-flex58T-E	
Speed		105 rpm	105 rpm	105 rpm	105 rpm	
Power		11750 kW	14100 kW	16450 kW	18800 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]	1267	0	0	0	
Ord.6	[±kNm]	0	927	0	0	
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Ord.8	[±kNm]	0	0	0	510	
Ord.9	[±kNm]	0	0	0	0	
Ord.10	[±kNm]	113	0	0	0	
Ord.11	[±kNm]	0	0	0	0	
Ord.12	[±kNm]	0	26	0	0	
Lateral X-Moments M_{LX}						
Ord.1	[±kNm]	147	0	87	294	
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Torque variation		[±kNm]	1298	937	737	509

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Speed		105 rpm	105 rpm	105 rpm	105 rpm
Power		11750 kW	14100 kW	16450 kW	18800 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					
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Ord.1	[±kNm]	0	0	0	0
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Ord.3	[±kNm]	0	0	0	0
Ord.4	[±kNm]	0	0	0	0
Ord.5	[±kNm]	1242	0	0	0
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Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	105	0	0	0
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F1h	[±kN]	0	0	0	0	
F2v	[±kN]	0	0	0	0	
F4v	[±kN]	0	0	0	0	
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Ord.8	[±kNm]	84	58	4	0	
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Ord.12	[±kNm]	3	0	1	3	
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Power Related Unbalance (PRU)
 Rating R1 2350 kW/Cyl @ 105 rpm

Crankshaft type: Forged / Full crank pin

