

X62-B

External forces and moments

Crankshaft type : Full crank pin

Rating R1 : 2900 kW/Cyl. @ 103 rpm / Standard Tuning

Engine Type		5X62-B	6X62-B	7X62-B	8X62-B
Speed		103 rpm	103 rpm	103 rpm	103 rpm
Power		14500 kW	17400 kW	20300 kW	23200 kW
Crank type		FCV2	FCV2	FCV2	FCV1
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]	237	0	144	466
M1h	[±kNm]	237	0	139	482
M2v	[±kNm]	2815	1958	568	0
M2v *)	[±kNm]	1118	1183	-	-
M4v	[±kNm]	18	136	386	157
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]	1724	0	0	0
Ord.6	[±kNm]	0	1308	0	0
Ord.7	[±kNm]	0	0	1070	0
Ord.8	[±kNm]	0	0	0	771
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	202	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	92	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	181	0	108	362
Ord.2	[±kNm]	280	195	56	0
Ord.3	[±kNm]	158	285	312	399
Ord.4	[±kNm]	62	475	1349	548
Ord.5	[±kNm]	0	0	104	1305
Ord.6	[±kNm]	26	0	15	0
Ord.7	[±kNm]	212	0	0	38
Ord.8	[±kNm]	124	86	7	0
Ord.9	[±kNm]	7	145	16	14
Ord.10	[±kNm]	0	39	112	0
Ord.11	[±kNm]	2	0	51	65
Ord.12	[±kNm]	22	0	5	18
Torque variation	[±kNm]	1755	1316	1069	768

*) with iELBA applied at FE + DE

The values for other engine ratings are available on request

The resulting lateral guide force at the crosshead can be estimated as follows: $FL=MLH \times 0.25$ [kN]

X62-B

External forces and moments

Crankshaft type : Full crank pin

Rating R1 : 2900 kW/Cyl. @ 103 rpm / Delta Tuning

Engine Type		5X62-B	6X62-B	7X62-B	8X62-B
Speed		103 rpm	103 rpm	103 rpm	103 rpm
Power		14500 kW	17400 kW	20300 kW	23200 kW
Crank type		FCV2	FCV2	FCV2	FCV1
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]	237	0	144	466
M1h	[±kNm]	237	0	139	482
M2v	[±kNm]	2815	1958	568	0
M2v *)	[±kNm]	1118	1183	-	-
M4v	[±kNm]	18	136	386	157
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]	1672	0	0	0
Ord.6	[±kNm]	0	1256	0	0
Ord.7	[±kNm]	0	0	1023	0
Ord.8	[±kNm]	0	0	0	736
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	194	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	93	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	180	0	107	359
Ord.2	[±kNm]	304	211	61	0
Ord.3	[±kNm]	170	306	335	430
Ord.4	[±kNm]	60	464	1318	535
Ord.5	[±kNm]	0	0	101	1268
Ord.6	[±kNm]	25	0	15	0
Ord.7	[±kNm]	203	0	0	37
Ord.8	[±kNm]	118	82	6	0
Ord.9	[±kNm]	7	140	16	14
Ord.10	[±kNm]	0	38	107	0
Ord.11	[±kNm]	2	0	49	62
Ord.12	[±kNm]	23	0	5	18
Torque variation	[±kNm]	1698	1263	1023	734

*) with iELBA applied at FE + DE

The values for other engine ratings are available on request

The resulting lateral guide force at the crosshead can be estimated as follows: FL=MLH x 0.25 [kN]

X62-B

External forces and moments

Crankshaft type : Full crank pin

Rating R1 : 2900 kW/Cyl. @ 103 rpm / Low-Load Tuning

Engine Type		5X62-B	6X62-B	7X62-B	8X62-B
Speed		103 rpm	103 rpm	103 rpm	103 rpm
Power		14500 kW	17400 kW	20300 kW	23200 kW
Crank type		FCV2	FCV2	FCV2	FCV1
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]	237	0	144	466
M1h	[±kNm]	237	0	139	482
M2v	[±kNm]	2815	1958	568	0
M2v *)	[±kNm]	1118	1183	-	-
M4v	[±kNm]	18	136	386	157
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]	1675	0	0	0
Ord.6	[±kNm]	0	1260	0	0
Ord.7	[±kNm]	0	0	1024	0
Ord.8	[±kNm]	0	0	0	736
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	193	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	93	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	180	0	107	360
Ord.2	[±kNm]	301	209	61	0
Ord.3	[±kNm]	170	307	336	430
Ord.4	[±kNm]	60	465	1323	537
Ord.5	[±kNm]	0	0	101	1269
Ord.6	[±kNm]	25	0	15	0
Ord.7	[±kNm]	203	0	0	37
Ord.8	[±kNm]	118	82	6	0
Ord.9	[±kNm]	7	141	16	14
Ord.10	[±kNm]	0	37	105	0
Ord.11	[±kNm]	2	0	49	63
Ord.12	[±kNm]	23	0	5	18
Torque variation	[±kNm]	1702	1268	1024	735

*) with iELBA applied at FE + DE

The values for other engine ratings are available on request

The resulting lateral guide force at the crosshead can be estimated as follows: FL=MLH x 0.25 [kN]

X62-B

External forces and moments

Crankshaft type : Full crank pin

Rating R1 : 2900 kW/Cyl. @ 103 rpm / Delta-Bypass Tuning

Engine Type		5X62-B	6X62-B	7X62-B	8X62-B
Speed		103 rpm	103 rpm	103 rpm	103 rpm
Power		14500 kW	17400 kW	20300 kW	23200 kW
Crank type		FCV2	FCV2	FCV2	FCV1
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]	237	0	144	466
M1h	[±kNm]	237	0	139	482
M2v	[±kNm]	2815	1958	568	0
M2v *)	[±kNm]	1118	1183	-	-
M4v	[±kNm]	18	136	386	157
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]	1686	0	0	0
Ord.6	[±kNm]	0	1271	0	0
Ord.7	[±kNm]	0	0	1038	0
Ord.8	[±kNm]	0	0	0	751
Ord.9	[±kNm]	0	0	0	0
Ord.10	[±kNm]	199	0	0	0
Ord.11	[±kNm]	0	0	0	0
Ord.12	[±kNm]	0	96	0	0
Lateral X-Moments M_{LX}					
Ord.1	[±kNm]	180	0	107	360
Ord.2	[±kNm]	299	208	60	0
Ord.3	[±kNm]	166	299	328	420
Ord.4	[±kNm]	60	467	1326	539
Ord.5	[±kNm]	0	0	102	1278
Ord.6	[±kNm]	25	0	15	0
Ord.7	[±kNm]	206	0	0	37
Ord.8	[±kNm]	121	84	6	0
Ord.9	[±kNm]	7	143	16	14
Ord.10	[±kNm]	0	38	109	0
Ord.11	[±kNm]	2	0	51	65
Ord.12	[±kNm]	24	0	5	19
Torque variation	[±kNm]	1712	1278	1036	747

*) with iELBA applied at FE + DE

The values for other engine ratings are available on request

The resulting lateral guide force at the crosshead can be estimated as follows: $FL=MLH \times 0.25$ [kN]

5-8 X62-B / Free external mass moments Power Related Unbalance (PRU) Rating R1 2900 kW/Cyl @ 103 rpm

Crankshaft type: Full crank pin

