

# X62DF-2.1

## External forces and moments

Crankshaft type : Full crank pin

Rating R1 : 2385 kW/Cyl. @ 103 rpm / max. values of Gas/Diesel-Mode

Engine Type		5X62DF-2.1	6X62DF-2.1	7X62DF-2.1	
Speed		103 rpm	103 rpm	103 rpm	
Power		11925 kW	14310 kW	16695 kW	
Crank type		FCV2	FCV2	FCV2	
<b>Massmoments / Forces</b>					
<b>Free Forces</b>					
F1v	[±kN]	0	0	0	
F1h	[±kN]	0	0	0	
F2v	[±kN]	0	0	0	
F4v	[±kN]	0	0	0	
<b>External Moments</b>					
M1v	[±kNm]	237	0	144	
M1h	[±kNm]	237	0	139	
M2v	[±kNm]	2815	1958	568	
M2v *)	[±kNm]	1118	1183	-	
M4v	[±kNm]	18	136	386	
<b>Lateral H-Moments <math>M_{LH}</math></b>					
Ord.1	[±kNm]	0	0	0	
Ord.2	[±kNm]	0	0	0	
Ord.3	[±kNm]	0	0	0	
Ord.4	[±kNm]	0	0	0	
Ord.5	[±kNm]	1517	0	0	
Ord.6	[±kNm]	0	1171	0	
Ord.7	[±kNm]	0	0	926	
Ord.8	[±kNm]	0	0	0	
Ord.9	[±kNm]	0	0	0	
Ord.10	[±kNm]	236	0	0	
Ord.11	[±kNm]	0	0	0	
Ord.12	[±kNm]	0	176	0	
<b>Lateral X-Moments <math>M_{LX}</math></b>					
Ord.1	[±kNm]	176	0	105	
Ord.2	[±kNm]	406	283	82	
Ord.3	[±kNm]	202	365	399	
Ord.4	[±kNm]	51	390	1107	
Ord.5	[±kNm]	0	0	93	
Ord.6	[±kNm]	22	0	13	
Ord.7	[±kNm]	175	0	0	
Ord.8	[±kNm]	134	93	7	
Ord.9	[±kNm]	8	152	17	
Ord.10	[±kNm]	0	43	121	
Ord.11	[±kNm]	5	0	106	
Ord.12	[±kNm]	41	0	8	
<b>Torque variation</b>		[±kNm]	1595.6	1215	950

\*) 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]

### 5-7 X62DF-2.1 / Free external mass moments Power Related Unbalance (PRU) Rating R1 2385 kW/Cyl @ 103 rpm

Crankshaft type: Full crank pin

