



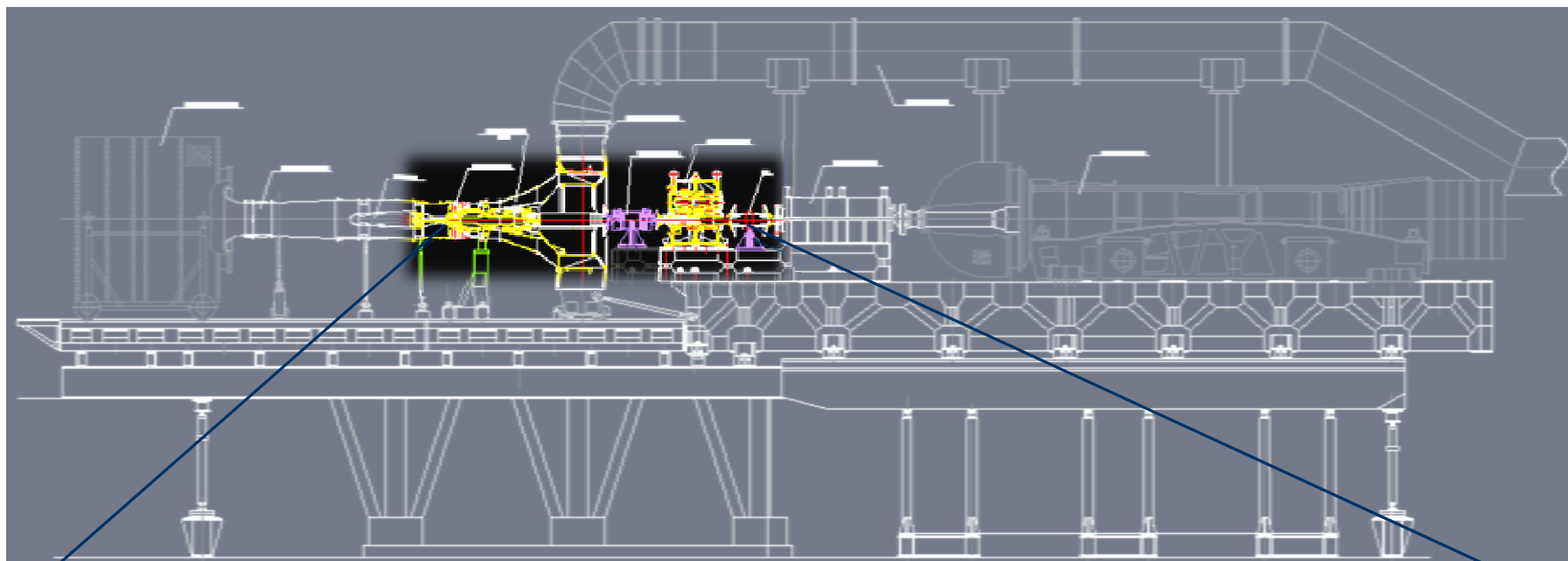
Compressor Stand Modeling

DYNAMICS R4

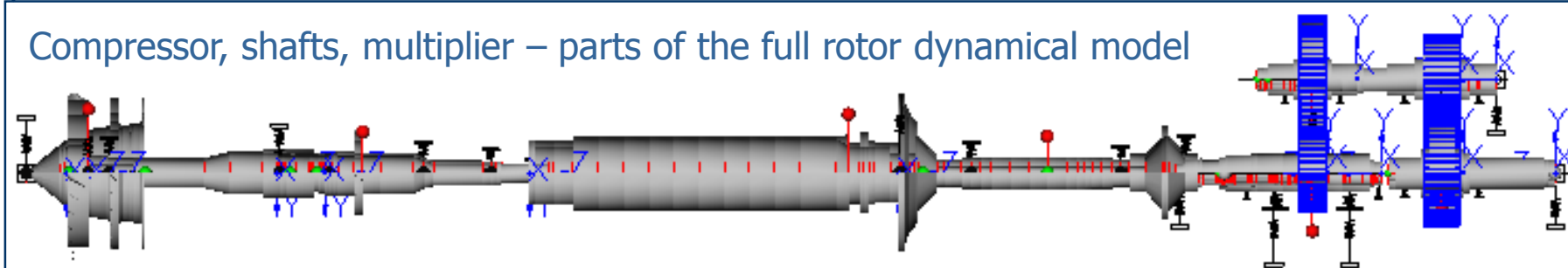
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Compressor test rig layout



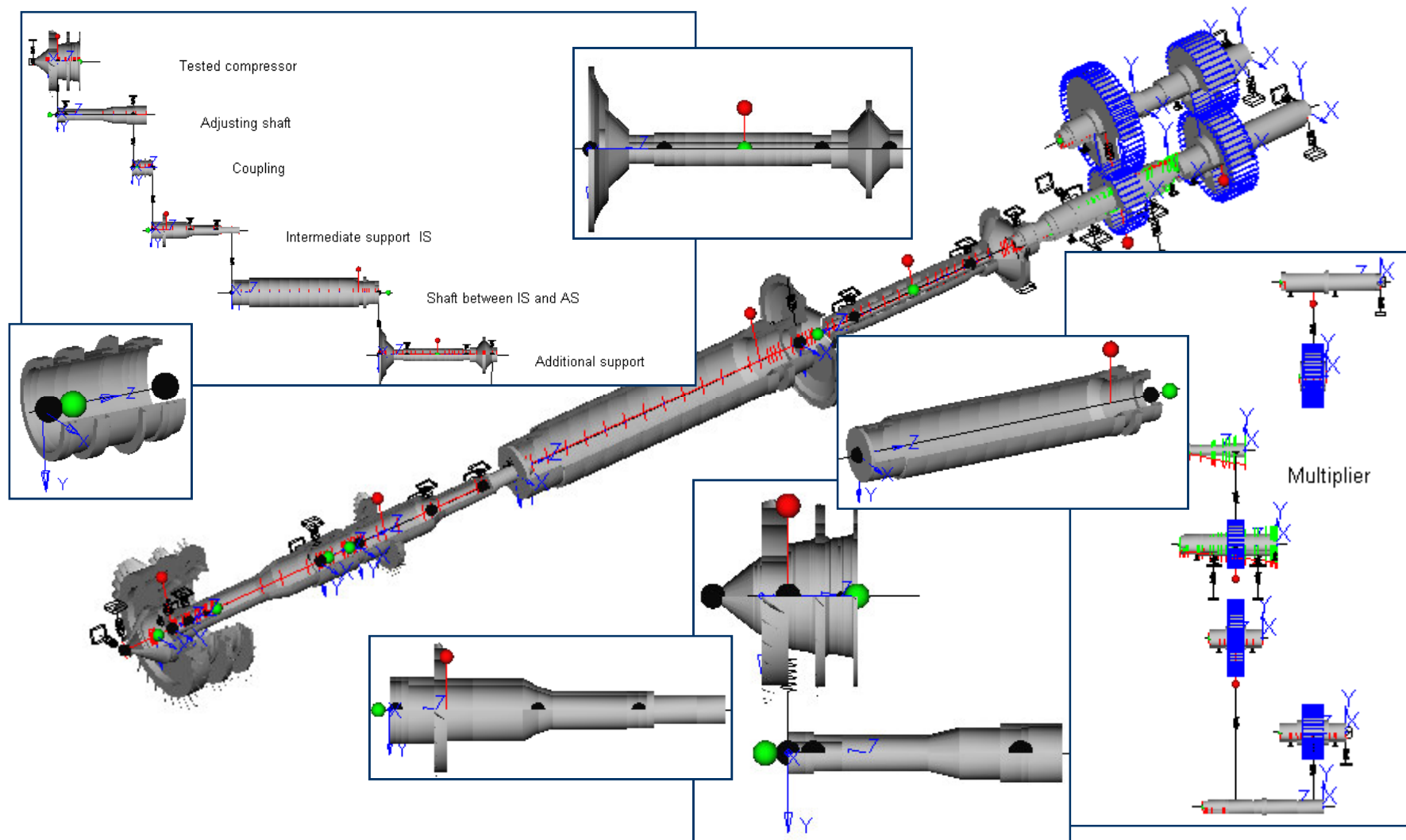
Compressor, shafts, multiplier – parts of the full rotor dynamical model



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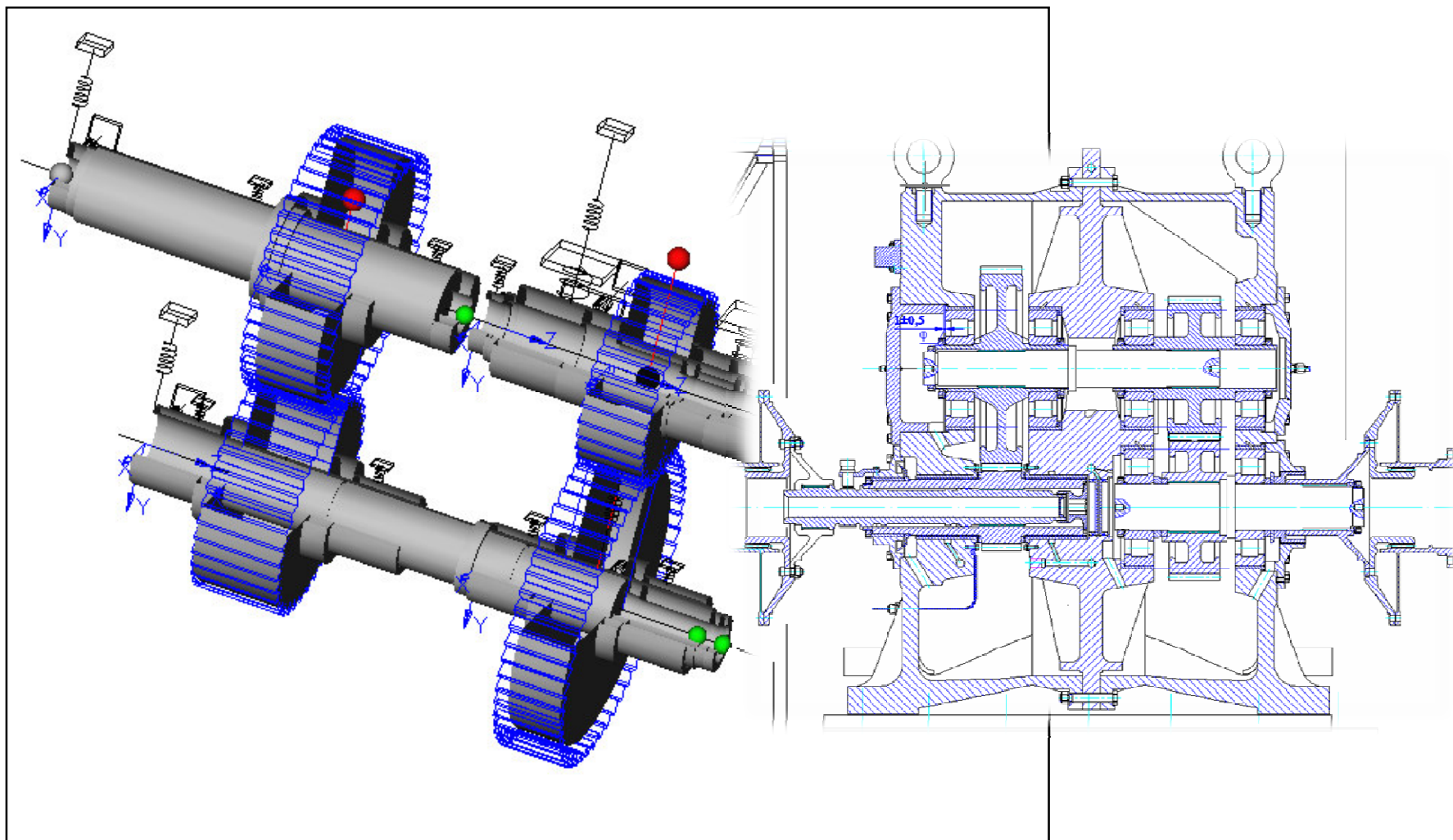
Multilevel rotor structure with the gear transmission



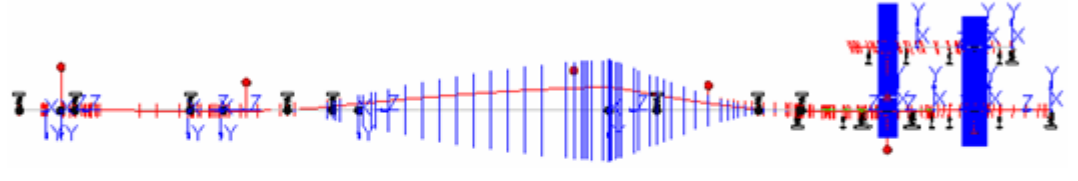
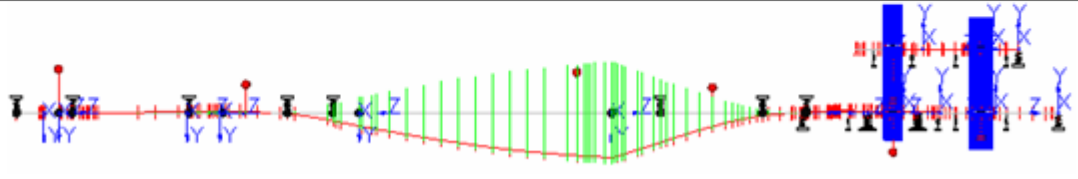
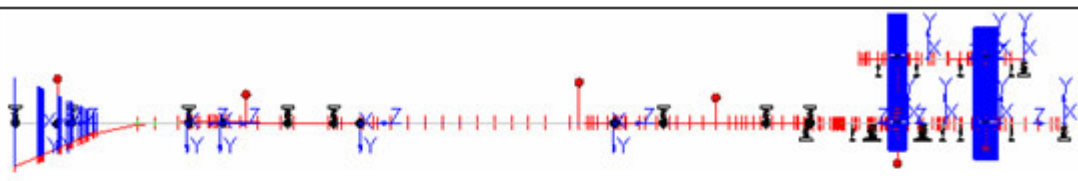
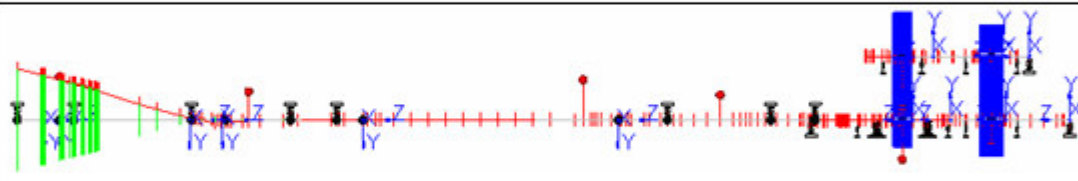
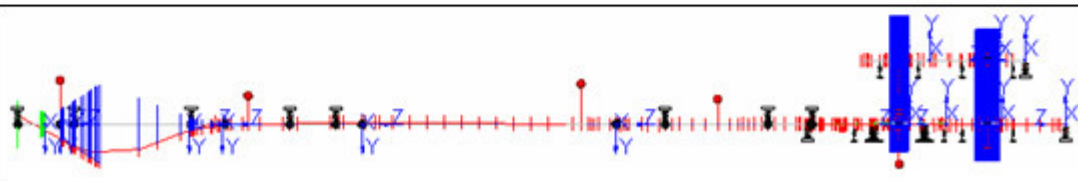
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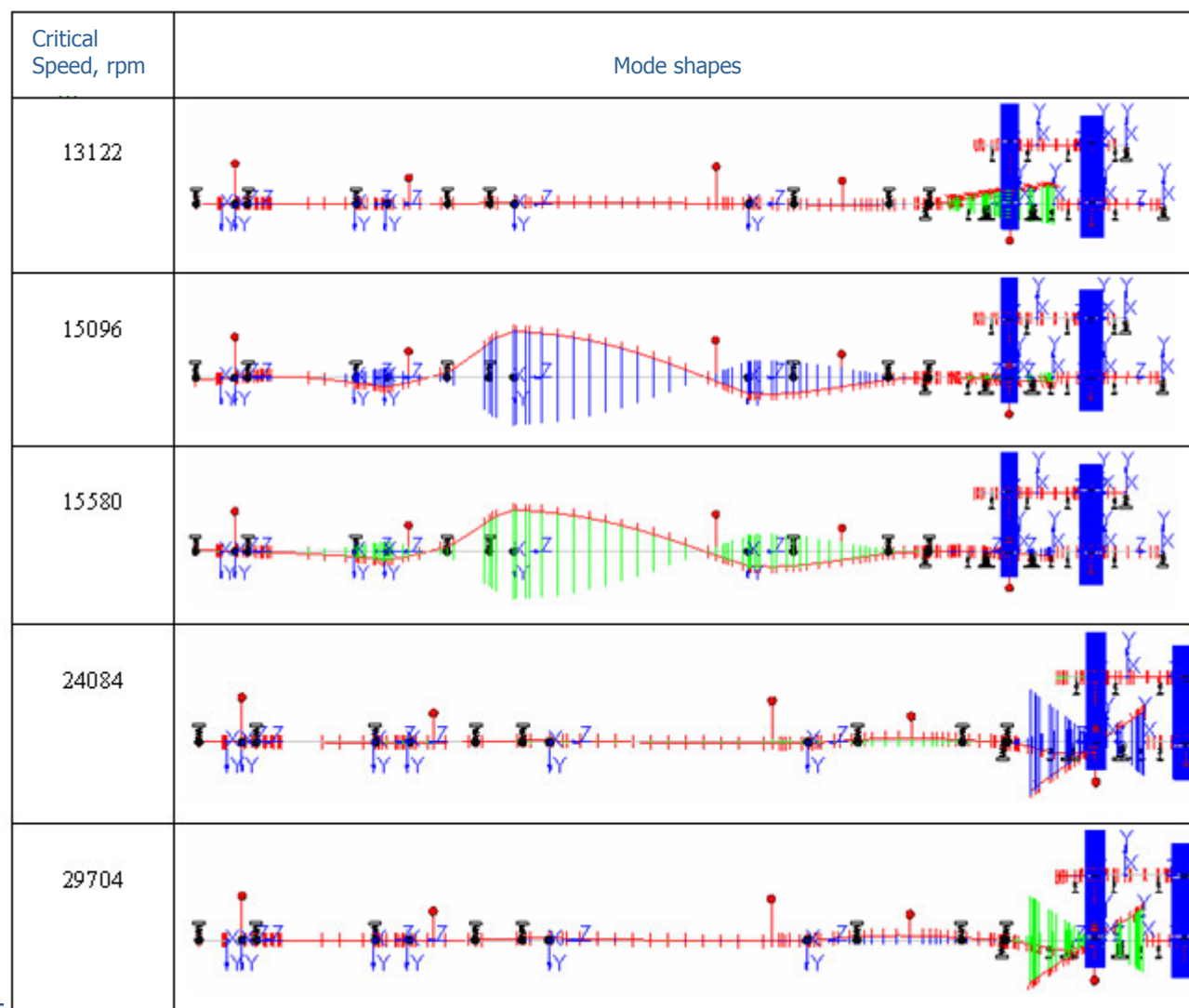
Gear model



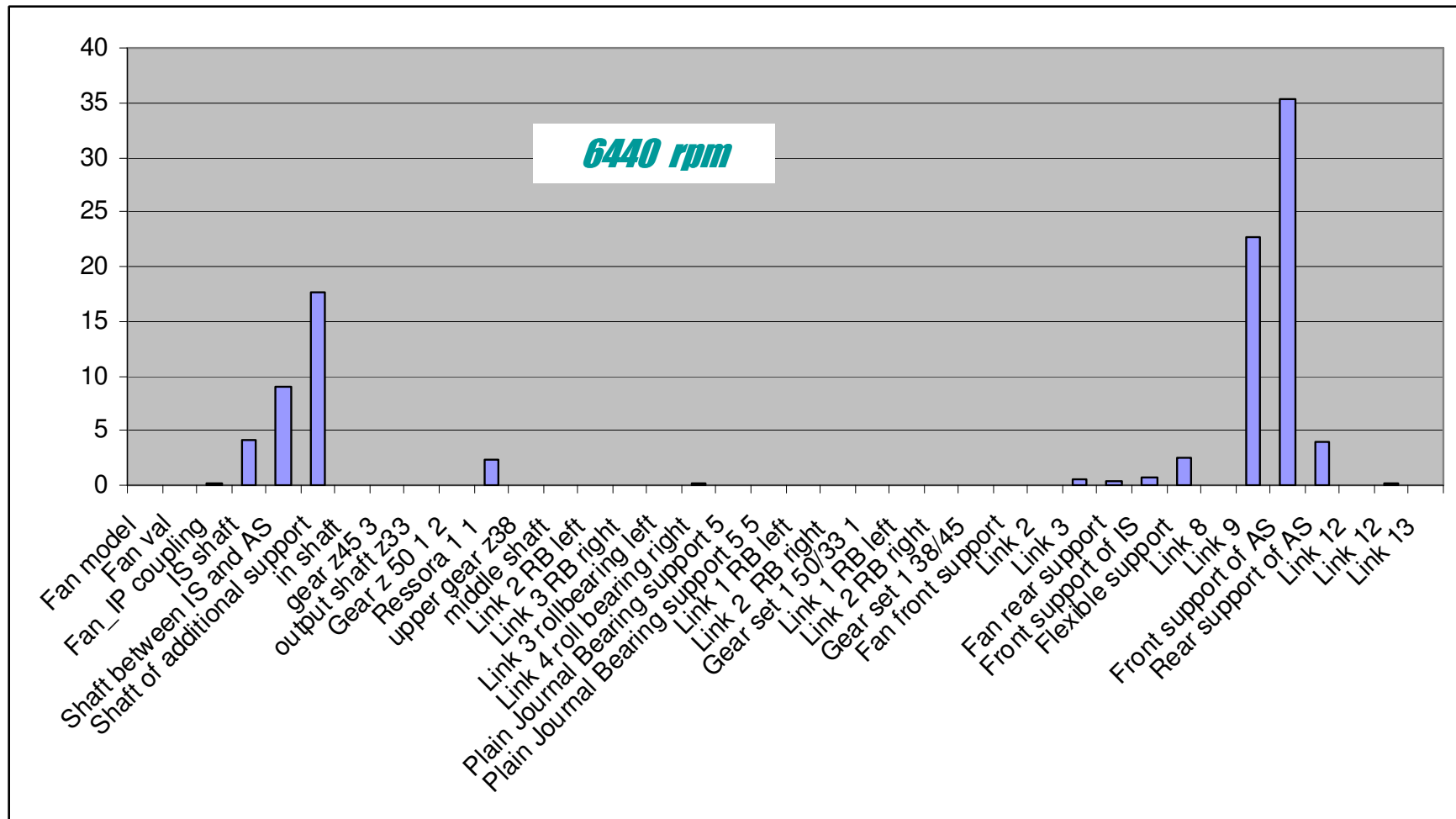
Frequencies and mode shapes

Critical Speed, rpm	Mode shapes
6274	
6440	
9533	
10774	
13069	

Frequencies and mode shapes



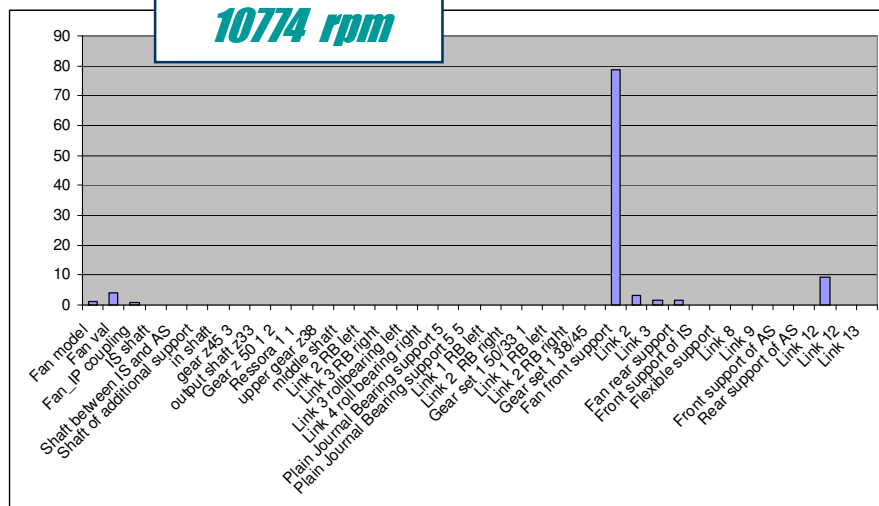
Energy distribution



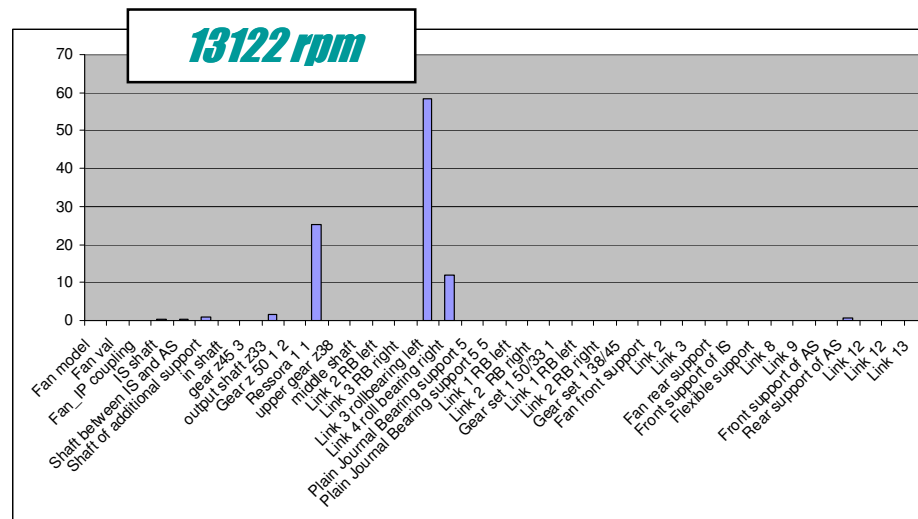
Energy distribution



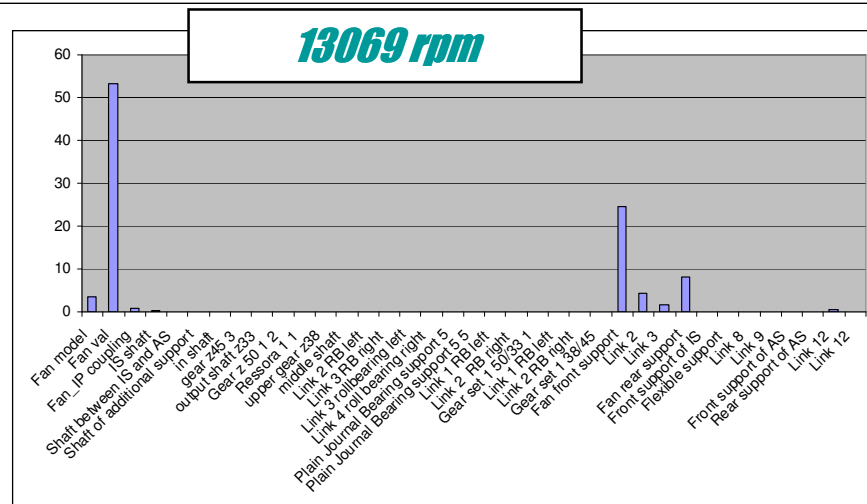
10774 rpm



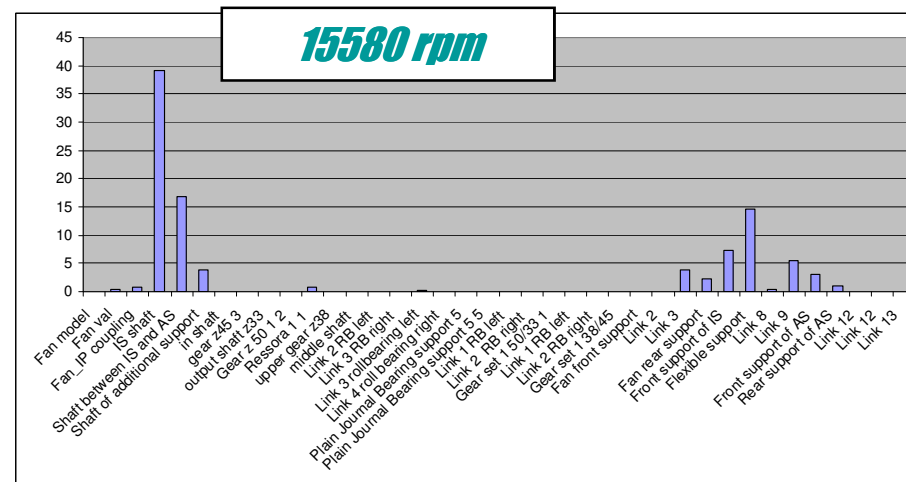
13122 rpm



13069 rpm



15580 rpm

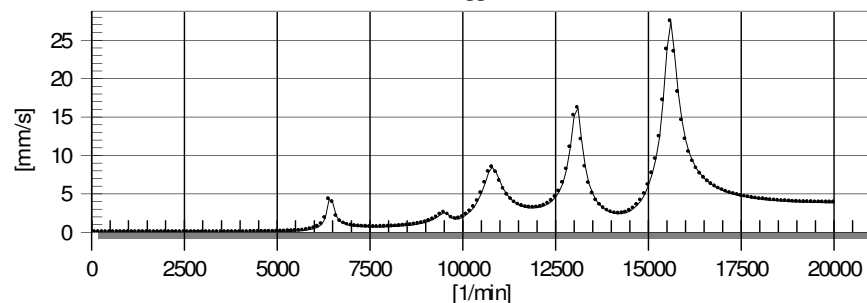


Unbalance response



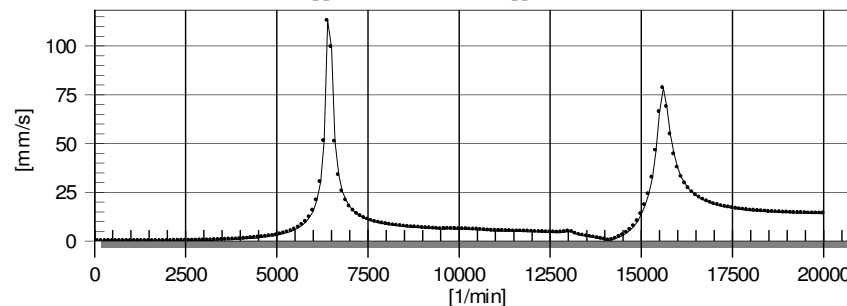
Unbalance response

[Fan val]. [568 Fan rear support]. [6.4.2008 (10:50)]



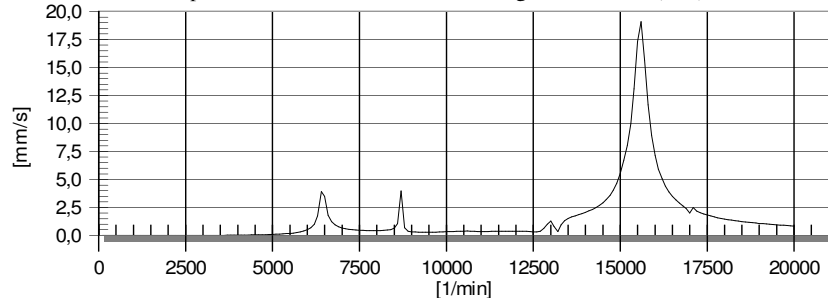
Unbalance response

[Shaft of additional support]. [2412.5 Front support of AS]. [6.4.2008 (10:59)]



Unbalance response

[output shaft z33]. [3498.4 Link 3 rollbearing left]. [6.4.2008 (11:4)]



Unbalance response

[IS shaft]. [1131 Flexible support]. [6.4.2008 (11:2)]

