

Marine Installation 船用动力装置 Coupled Axial Vibration Calculation

耦合轴向振动计算

Please fill in this form in English 请用英文填写此表

Client Information 客户信息		名称 Name: _____		电话 Phone: _____	
委托日期 Order Date: _____		Order deadline: 完成委托最后期限: _____			
Project 项目					
项目名称 Project name: _____					
船厂 Shipyard: _____			船号 Hull No.: _____		
船级社: Classification society: _____					
Engine 柴油机		造机厂 Engine builder: _____			
柴油机型号 Engine type: _____		柴油机功率 Engine power (CMCR): _____ kW		柴油机转速 Engine speed: _____ rpm	
旋转方向 Rotation: _____		Clockwise <input type="checkbox"/> Anticlockwise <input type="checkbox"/> 顺时针 <input type="checkbox"/> 逆时针 <input type="checkbox"/>		Engine tuning: _____ 柴油机油耗优化调整: _____	
飞轮惯量 Flywheel inertia: _____ kgm ²		Tier: 2 <input type="checkbox"/> 3 <input type="checkbox"/> SCR: HP <input type="checkbox"/> LP <input type="checkbox"/> LowTV: <input type="checkbox"/>			
调频轮惯量 Front disc inertia: _____ kgm ²		飞轮质量 Flywheel mass: _____ kg			
TV damper type / designation: 扭振减振器型号 / 牌号: _____		调频轮质量 Front disc mass: _____ kg			
TV damper manufacturer: 扭振减振器生产厂家: _____					
Shafting 轴系					
中间轴直径: _____ mm		螺旋桨轴直径: _____ mm			
Intermediate shaft diameter: _____		Propeller shaft diameter: _____			
中间轴长度: _____ mm		螺旋桨轴长度: _____ mm			
Intermediate shaft length: _____		Propeller shaft length: _____			
中间轴抗拉强度极限: _____ N/mm ²		螺旋桨轴抗拉强度极限: _____ N/mm ²			
Intermediate shaft UTS: _____		Propeller shaft UTS: _____			
A detailed drawing or sketch of the propulsion shafting has to be enclosed. 请附上推进轴系的详细设计图或示意图。					
Propeller 螺旋桨					
型式 Type: _____		定距桨 <input type="checkbox"/> 可调桨 <input type="checkbox"/> FP <input type="checkbox"/> CP <input type="checkbox"/>		桨叶数 Number of blades: 4 <input type="checkbox"/> 5 <input type="checkbox"/> 6 <input type="checkbox"/>	
直径 Diameter: _____ m		盘面比: _____			
平均螺距 Mean pitch: _____ m		Expanded area blade ratio: _____			
空气中转动惯量 Inertia in air: _____ kgm ²		空气中质量 Mass in air: _____ kg			
附水转动惯量*: _____ kgm ²		附水的质量: _____ kg			
Inertia with entr. water*:		Mass with entrained water:			
*In case of a CP-Propeller, the inertia in water for full pitch and for pitch zero has to be specified. If possible, a graph or table showing the entrained water depending on the pitch should be enclosed.					
*如果是可调螺距螺旋桨, 请详细说明全螺距和零螺距水中转动惯量。如果可能, 还请提供螺距-附水转动惯量对应数据或表格。					

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发电机 PTO	型式 Type:	自由端齿轮 Free end gear <input type="checkbox"/>	隧道式齿轮 Tunnel gear <input type="checkbox"/>	轴带发电机 Shaft generator <input type="checkbox"/>
发电机齿轮箱 PTO-Gear	制造厂 Manufacturer:	_____		
Detailed drawings with the gearwheel inertias, masses and gear ratios have to be enclosed. 请附上含有齿轮惯量、质量和齿轮传动比的详图				
发电机离合器 / 弹性联轴节 PTO-Clutches/Elastic couplings:				
The arrangement and the type of couplings have to be enclosed. 请附上联轴节的布置和类型。				
发电机 PTO-Generator	制造厂: Manufacturer:	服务转速范围: Service speed range:	rpm	
发电机转速 Generator speed:	_____	_____		
转子惯量 Rotor inertia:	_____	转子质量 Rotor mass:	_____	kg
If possible, a drawing of the generator shaft should be enclosed. 如果可能, 请附上发电机轴的图纸.				

Minimum required data needed for a provisional calculation of the coupled axial vibrations.
这些是初期耦合轴向振动计算需具备的最基本数据资料

This completed form has to be sent to WinGD Ltd. / Dept. Engine Dynamics & Structure Analysis
per eMail to: dynamics.ch@wingd.com 填妥此表后, 请将完整表格传真至WinGD瑞士有限公司柴油机和系统动力学部, 或邮件至
dynamics.ch@wingd.com