IV. Nemzetközi Rexroth Pneumobil Verseny 2011

Dokumentáció kiértékelés

MOBIL IV. DO Rescrittoria

Csapat/Team:

Chapter	Task	Max. points	Achieved result	Remarks	Deficiency supply until 31.01.2011
1. Introduction of the	General presentation about the construction/design	5	rooun		
2 Mass and dimensions	Figure (3D)	-			
2/a	Define dimensions of the vehicle, grant the max, admitted dimensions				
2/b	Information regarding centre of gravity				
2/c	In case of 3-wheels vehicles, the smallest angle in the triangle, which is bordered by the wheels, should be at least 30°	5			
2/d	Clearance between the bottom of the vehicle and the ground surface: min. 70 mm				
2 F erry and the set of the set	Figures, calculations				
3. Framework, car-body	Structure of the framework should be presented, as far as the fulfilment of the requirements (e.g. how can you ensure the safety of the driver, the position of the air bottle and the crush zone).	10			
4. Engine	Presentation of the engine's structure (which elements are going to be used and why?				
4/d	Only one engine can be used in the vehicle, which makes up one mechanical unit. Every cylinder of the engine shall be in moving, in every run (category) of				
4/e	The engine must be visible by the jury, or transparent cover can be used. Teams not fulfilling this criteria will be punished by 25 % points reduction in the technical category (category of creativity of design).	20			
4/f	The engine should be placed in the vehicle so that its parts extend max. 200 mm from the farthermost points of the front and back wheels. (See figure 2.). Parts not belonging to the engine may extend longer.	20			
	Adequacy of the drawing and item list (regarding part nr.) Application of Rexroth softwares				
6. Puffer container	Figures, calculations, 3D Material of the nuffer container and its clamping should fulfil the requirements for				
o. r uner container	pressure-cabins.	5			
7. Drive chain	Kinematic design of the drive chain is required (started from the driving axe of the engine to the driven wheels). Its operation, transmission, free wheels should be explained through this drawing.	10			
9 S	Calculation (moment, revolution per minute, etc.) is preferred				
o. Suspension	Figure is preferred.	5			
9. Steering-gear	The applied steering-gear should be presented.	5			
10. Brake	Figure is preferred. The applied brake-system and information about its building in and constructions should be presented, and the availability of the two independent cycles as far as the parking brake should be confirmed.	5			
11. Compressed air bottle	The safe position of the bottle on the chassis should be presented on a figure, and the	5			
12 Safety prescriptions	fixing method shoud be also defined.	3			
12/a	The driver must have a safe place in or on the vehicle				
12/b	In case of a vehicle with car character the use of minimum three-point safety belt over the				
12/c	seat is obligatory. n case of a vehicle with quad character there is no requirement for a safety belt, but wearing protective clothing for motorcycling is obligatory, or you can use knee- and elbow-pads, as well as protecting vest (jacket) for the backbone.				
12/d	In case of a vehicle of quad character the "gas-pedal" should be always pressed down. When released the "gas-pedal" should go back to the start position.				
12/e	An emergency stop circle shall be used in the pneumatic system, for exhausting the air from drive chain. The operating lever or button shall be easily accessible by the driver or by other helping person.	10			
12/f	The optional source of current (battery) shall be safely fixed, and the vehicle equipped with a main switch which should be easily accessible, similar to the emergency stop level.				
12/g	Actuators of the safety elements (current cutting and exhausting - see emergency				
12/h	stop) should be marked with red-bordered white triangle. Wearing crash-helmet (according to KRESZ rules) by the drivers and the percentered				
12/11	(if any) is compulsory during the events of competition.				
13. Rexroth elements	Use of the demand-sheet of elements, which can be downlodaded from the home- page, is compulsory, type and amount of every needed elements have to be defined on this	_			
	If there is any pneumatically actuated function - besides the drive-chain - on the vehicle, it should be presented here.	5			
14. Start plates and	The surfaces provided for the start plates should be presented and confirmed with a	F			
publicity surfaces	figure.	°			
15. Data sneet	ruifilied data sheet.	5	0		
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