



THE NEW MICROLIGHT FRENCH REGULATION

« A LA FRANÇAISE »



Fédération Française d'ULM

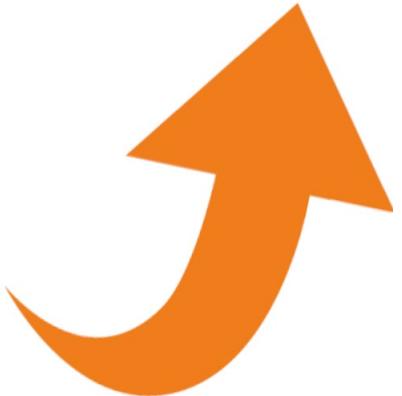
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Regulation and International Cases*



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Three major modifications of the regulation

- **2019 >> second major evolution**
- **1998 >> first major evolution**
- **1985 >> origine regulation**



GUIDLINES SHARED WITH OUR CAA



- Keep our déclarative system, simple and based on pilote/owner responsibility
- Take into account the reality of the current MLA panel and the trends of evolution
- Staying Microlight outside of EASA >> annex 1 and choosing a "reasonable" Opt-Out
- Collaborative work with CAA
- Do not turn Microlight in certified planes (or planes in microlight !)
- Kinetic energy less than 100KJ (low speed and light weight)
- Encourage technological innovation
- Stay pragmatic, without pressure and lobbying



TO KEEP SIMPLE, HOW CAN WE DEFINE MICROLIGHT?

- Maximum Take Off Mass (MTOM)
- Maximum Empty Weight (MEW)
- Velocity of Stall with everything hanging Out (VSO)
- Engine Maximum Power (EMP)
- Maximum Payload Crew Mass
- Fuel Autonomy
- Simplicity
- Light...

NO CHANGE WITH THESE MICROLIGHT CLASSES



Classe 1 - Paramoteur



Classe 2 - Pendulaire



Classe 5 - Aérostat UL

Keep outside of «Opt-Out »

MANY CHANGES FOR THESE MICROLIGHT CLASSES



Classe 3 - Multiaxes



Classe 4 - Autogire



Classe 6 - Hélicoptère

Mooving for a « reasonable Opt-Out »

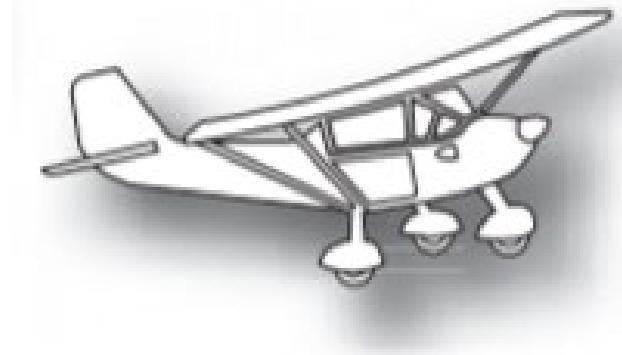
SINGLE SEAT MULTIAxes



- **300 kg → 330 kg (345kg with recovery canopy)**
 - Credit + 15 kg Recovery canopy
 - Credit + 30 Kg Watter Floats
 - Standard Crew 86 Kg
 - Standard Fuel 1h mini → 22 kg (30 liters)
 - **Engine maximum Power 60 Kw (82 CV) >> 65 Kw (88 CV)**
 - VSO 35 Kts (65 km/h)

e.g.: Empty weight calculation : $330 \text{ kg} + 15\text{kg} - 86 \text{ Kg} - 22 \text{ kg} = 237 \text{ kg}$

TWO SEATS MULTIAxes



- **450kg → 500kg (525kg with recovery canopy)**
 - Credit + 25 kg Recovery Canopy
 - Credit + 45 kg Water Floats
 - Standard Crew 156 kg
 - Standard Fuel 1h mini → 33 kg (45 liters)
 - **Engine Maximum Power 75 Kw (102 CV) → 80 Kw (109 CV)**
 - **VSO 35 Kts (65 km/h) → 38 Kts(70 km/h)**

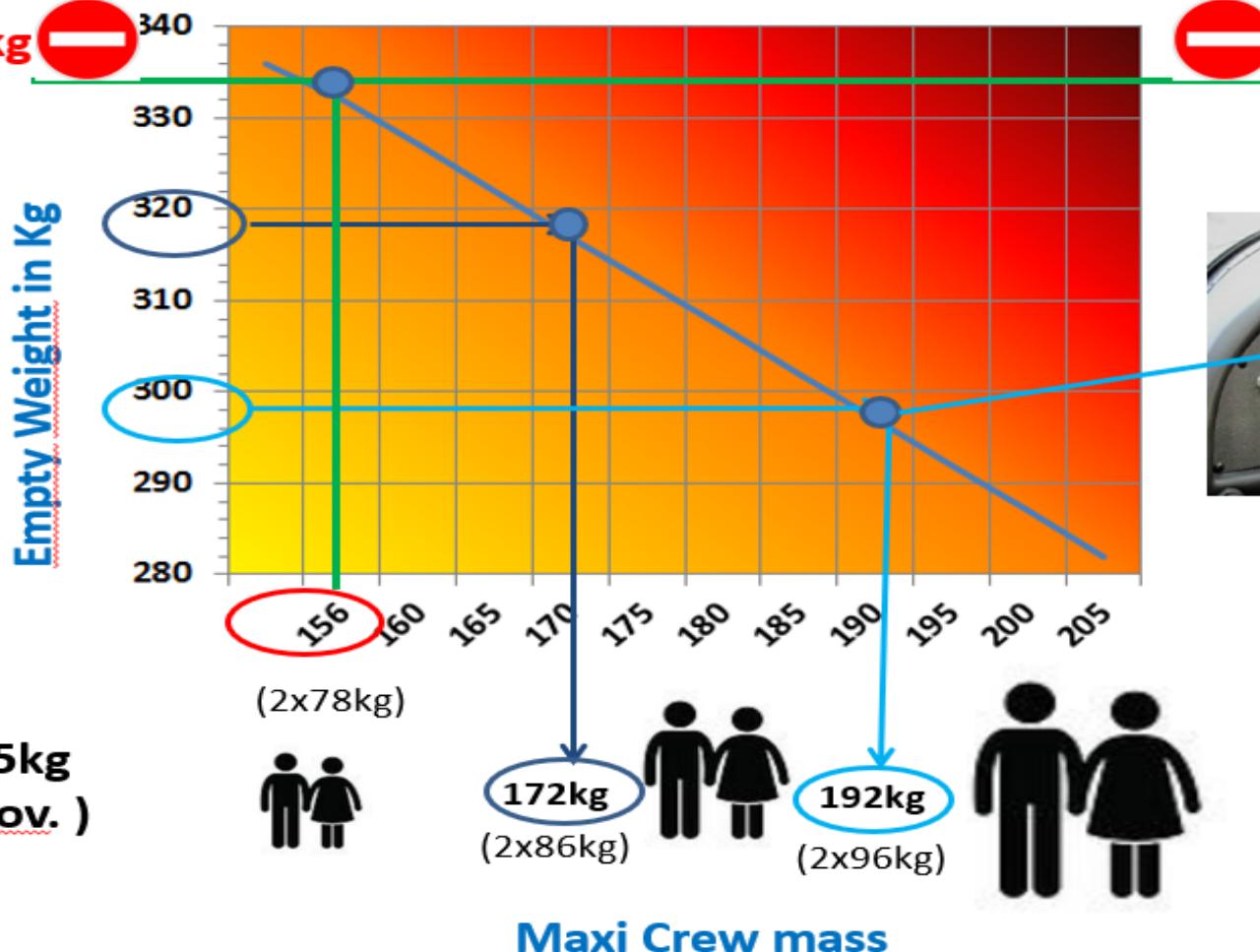
e.g.: Empty weight calculation : $500 \text{ kg} + 25 \text{ kg} - 156 \text{ Kg} - 33 \text{ kg} = 336 \text{ kg}$

RATIO BETWEEN EMPTY WEIGHT AND CREW PAYLOAD CAPACITY

**MTOM Maxi 525kg
/EW Maxi 336 kg**



Eg: MTOM 525kg
(with Can. Recov.)



**MTOM Maxi 525kg
/ EW Maxi 336 kg**



**Keep light for
more carrying
capacity**

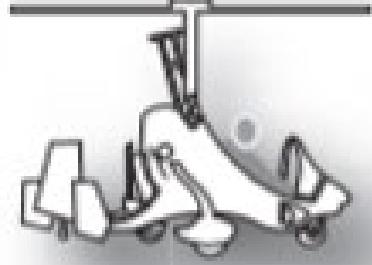
SINGLE SEAT AUTOGYRO



- **300kg → 330kg**
 - Credit + 15 kg Recovery Canopy
 - Credit + 30 Kg Watter Floats
 - Standard **Crew 86 Kg**
 - Standard **Fuel 1h mini → 22 kg (30 litres)**
 - Engine maximum Power **75 Kw(102 CV) → 85 Kw(116 CV)**

e.g.: Empty weight calculation : $330 \text{ kg} - 86 \text{ Kg} - 22 \text{ kg} = 222 \text{ kg}$

TWO SEATS AUTOGYRO



- **450kg → 500kg**
 - Credit + 25 kg Recovery Canopy
 - Credit + 45 Kg Watter Floats
 - Standard Crew 156 kg
 - Standard Fuel 1h mini → 33 kg (45 litres)
 - **Engine maximum Power 90Kw (122 CV) → 105Kw (143 CV)**

e.g.: empty weight calculation : $500 \text{ kg} - 156 \text{ Kg} - 33 \text{ kg} = 311 \text{ kg}$

SINGLE SEAT HELICOPTER



- **300kg → 330kg**
 - Credit + 15 kg Recovery Canopy
 - Credit + 30 kg Water Floats
 - Standard Crew 86 Kg
 - Standard Fuel 1h mini → 22 kg (30 litres)
 - Engine maximum Power 80 Kw (109 CV) → 85 Kw (116 CV)

e.g.: Empty weight calculation : $330 \text{ kg} - 86 \text{ Kg} - 22 \text{ kg} = 222 \text{ kg}$

TWO SEATS HELICOPTER



- **450kg → 500kg**
 - Credit + 25 kg Recovery Canopy
 - Credit + 45 kg Water Floats
 - Standard **Crew 156 kg**
 - Standard **Fuel 1h mini → 33 kg (45 litres)**
 - Engine maximum Power **100Kw (136CV) → 105Kw (143 CV)**

e.g.: empty weight calculation : $500 \text{ kg} - 156 \text{ Kg} - 33 \text{ kg} = 311 \text{ kg}$

SUM UP...

Classe	Appellations	Configuration	Proposition de nouvelles Masses Max Futur arrêté ULM (kg)	Masse à vide Max avec nos propositions de nouvelles Masses Max (kg)	Masses d'emport forfaitaires				puissance	VSO (VC)	
					credit masse forfaitaire parachute	credit masse forfaitaire flotteurs	masse forfaitaire pilote/passeger	masse forfaitaire carburant			
1	Paramoteur monoplace	basique + parachute + flotteurs + parachute + flotteurs	300 315	- -	- 15			86 86			
			450 475	- -	25			156 156			
	Paramoteur biplace	basique + parachute + flotteurs + parachute + flotteurs	300 315 330 345	- - - -	- 15 30 30			86 86 86 86	1h 1h 1h 1h	60 (82) 60 (82)	
			450 475 495 520	- - - -	25 45 25 45			156 156 156 156	1h 1h 1h 1h	75 (102) 75 (102)	
2	Pendulaire monoplace	basique + parachute + flotteurs + parachute + flotteurs	300 315 330 345	- - - -	- 15 30 15			86 86 86 86	1h 1h 1h 1h	60 (82) 60 (82) 60 (82) 60 (82)	
			450 475 495 520	- - - -	25 45 25 45			156 156 156 156	1h 1h 1h 1h	75 (102) 75 (102) 75 (102) 75 (102)	
	Pendulaire biplace	basique + parachute + flotteurs + parachute + flotteurs	300 315 330 345	- - - -	- 15 30 30			86 86 86 86	1h 1h 1h 1h	35Kts(65km/h) 35Kts(65km/h) 35Kts(65km/h) 35Kts(65km/h)	
			450 475 495 520	- - - -	25 45 25 45			156 156 156 156	1h 1h 1h 1h	35Kts(65km/h) 35Kts(65km/h) 35Kts(65km/h) 35Kts(65km/h)	
3	Multiaxes monoplace	basique + parachute + flotteurs + parachute + flotteurs	330 345 360 375	222 237 252 267	15 30 30			86 86 86 86	22 22 22 22	65 (88) 65 (88) 65 (88) 65 (88)	
			500 525 545 570	311 336 356 381	25 45 25 45			156 156 156 156	33 33 33 33	80 (109) 80 (109) 80 (109) 80 (109)	
	Multiaxes biplace	basique + parachute + flotteurs + parachute + flotteurs	330 345 360 375	222 237 252 267	15 30 30			86 86 86 86	22 22 22 22	35Kts(65km/h) 35Kts(65km/h) 35Kts(65km/h) 35Kts(65km/h)	
			500 525 545 570	311 336 356 381	25 45 25 45			156 156 156 156	33 33 33 33	80 (109) 80 (109) 80 (109) 80 (109)	
4	Autogire monoplace	basique + parachute + flotteurs + parachute + flotteurs	330 345 360 375	222 237 252 267	15 30 30			86 86 86 86	22 22 22 22	85 (116) 85 (116) 85 (116) 85 (116)	
			500 525 545 570	311 336 356 381	25 45 25 45			156 156 156 156	33 33 33 33	105 (143) 105 (143) 105 (143) 105 (143)	
	Autogire biplace	basique + parachute + flotteurs + parachute + flotteurs	330 345 360 375	222 237 252 267	15 30 30			86 86 86 86	22 22 22 22	85 (116) 85 (116) 85 (116) 85 (116)	
			500 525 545 570	311 336 356 381	25 45 25 45			156 156 156 156	33 33 33 33	105 (143) 105 (143) 105 (143) 105 (143)	
5	Dirigeable monoplace		1200 m3 air ou 400 m3 gaz Si Annexe I hors motif h : 2000 m3 air ou 900 m3 gaz					86			
								156			
6	Hélico monoplace	basique + parachute + flotteurs + parachute + flotteurs	330 345 360 375	222 237 252 267	15 30 30			86 86 86 86	22 22 22 22	85 (116) 85 (116) 85 (116) 85 (116)	
			500 525 545 570	311 336 356 381	25 45 25 45			156 156 156 156	33 33 33 33	105 (143) 105 (143) 105 (143) 105 (143)	
	Hélico biplace	basique + parachute + flotteurs + parachute + flotteurs	330 345 360 375	222 237 252 267	15 30 30			86 86 86 86	22 22 22 22	85 (116) 85 (116) 85 (116) 85 (116)	
			500 525 545 570	311 336 356 381	25 45 25 45			156 156 156 156	33 33 33 33	105 (143) 105 (143) 105 (143) 105 (143)	



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- **Next steps**
 - Formalize official decision by CAA regulation department
 - Decrees publication
 - Implemented new rules, and practical details (new MLA and modified MLA), passing UE border <>, ...
 - Communicate to pilots, operators, manufacturers, importers,....
- **Expected Agenda**
 - 2019 June or July (we have no control on official publications)...



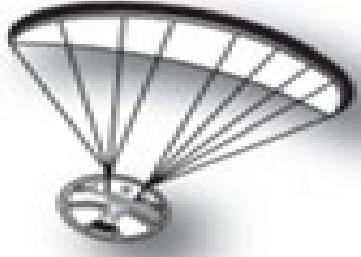
HOW TO MOVE MTOM OF ALREADY EXISTING MICROLIGHTS 450(475)KG → 500(525) KG

- The aircraft must « be able » to flight at 500 kg (525kg)
 - The manufacturer/importater must attest this possibility by an official document submited to CAA.
- To benefit of « Opt-Out » the microlight's owner is commited to engage an official request to CAA to establish a new form (identification card). Submited to aircraft capability to move MTOM approved manufacturer/importater.
- **IMPORTANT / TAKE CARE : No flight with new MTOM before reneved registration card by CAA**
 - There is nothing automatic !!



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**It is for tomorrow ...
Thanks for your
attention !**

