

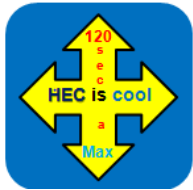
# HEC = F1H Euro Challenge



**Freeflight Serie in F1H**



☺ **120 sec is a MAX** ☺



# Why HEC?



**F1H EURO CHALLENGE (HEC)** was founded in 2011 by Initiative of Ansgar Nüttgens to promote the freeflight glider class **F1H**. It will give all freeflight sportsmen, especially children, but also experts, who can't or don't like anymore to follow the quick development of World - Championships Freeflight F1 classes with always



**“Quicker, Higher, More technology and functions as also higher expenses”**  
the chance to *start a new platform of freeflight* on a *lower level*.  
The target of this **HEC** series is to create fun under the flyers again, to increase the interest for this class by encouraging participation **especially** of **young people** in the international atmosphere and respectful sportsmanship in the spirit of mutual trust and fairness.



# HEC dream 2020+



HEC Board has the intent to develop HEC in the spirit of a **future oriented piloting** for Freeflight basis

according **HEC vision 2020+**

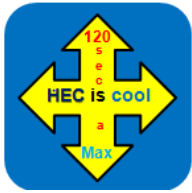
[www.creasus.de/ikarus/HECdream2020+.pdf](http://www.creasus.de/ikarus/HECdream2020+.pdf).

Let's make HEC **fascinating** and **challenging** for

**Beginner, Advanced** as also **Experts** and **Professional** sportsmen independent from the age and technical skills and in easy way also on small fields.

Therefore **HEC** categories with visible and easy controllable criteria were installed to give all an individual basis of activity and self motivation by flying against other sportsman **with similar conditions** under the common screen of **HEC total ranking** without borders in the EUROPEAN spirit and fairness.





# HEC Goals



**F1H Euro Challenge (HEC)** was founded in 2011 on a private Initiative through Ansgar Nüttgens (GER). The **intention** was to establish a challenging Freeflight-contest serie on EUROPEAN level as **alternative** to the „Higher, Quicker, More!“ of FAI classes.

**F1H Euro Challenge** has the **intention**,

- To **promote** freeflightsport at the **basis on national level**
- to bring freeflight without big effort back to **new, smaller** flying field.
- to wake the interest of **young people** back to freeflight sport.
- **not** to follow the F1A development with „Higher, Quicker, More!“



# HEC - contest in 1 class F1H

## HEC categories in yearend ranking

- **F1H EURO Challenge** is an annual competition serie in the **class F1H**.
- Every EUROPEAN country as also the HEC Board can nominate at the beginning of a year maximum 3 **HEC** contests.
- **HEC** competition will be flown in 1 **class F1H**, only for the **yearend total ranking** will be build appropriate classification according the potential starting height by different start methods in following categories:

category	Main Characteristics
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<b>HEC - S</b>	Straight = straight tow with open hook
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<b>HEC - C</b>	Circle = circle tow without Bunt
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<b>HEC - B</b>	Bunt = Buntmodel with irreversible functions
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<b>HEC - O</b>	Other = all other models, but without LDA/ Hybrid Profile LDA = Low Drag Airfoil will be ranked in HEC only until Final
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# Why exist anyway in **HEC** categories in F1H ?

Important Info: **HEC**- categories are **no** classes, but ...

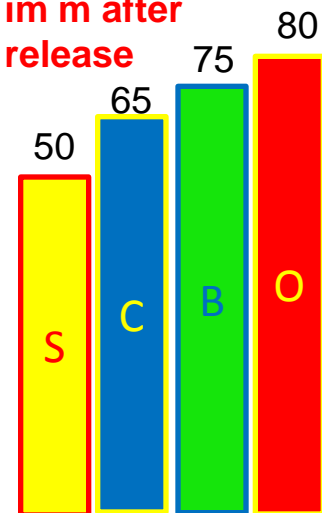
- all **HEC** contests will be flown only in the **class F1H** !
- **HEC**- categories will be taken only for the **season ranking** of this series.
- beside the **Total ranking** also exist a separate ranking in **B**, **C** and **S** categories. Models in the category **O** are the performance leaders in **HEC** and will be included in the **total ranking** , due by **highest** chances by O of all F1H models.
- this shows clearly, that in the **HEC series** the **basics** of **freeflight** will be promoted, but the **TOP performance flyers** also have their place in **HEC**.
- in the single **HEC**- categories **B**, **C**, **S** the competing sportsmen with **similar technical equipment** have a **comparable condition** in the competition.
- these categories open up the **challenge during the season** and last but not least also increases the **contest participation** to qualify for the **HEC Finale**.
- all **F1H flyers** receive an additional 2<sup>nd</sup> **fascinating chance** by competing with **like minded** sportsfriends in a **sportive** and **fair competition**.


☺ **HEC categories** build an **important function** for all **F1H flyers** ☺

# 4 HEC categories built ... due of different start methods & height

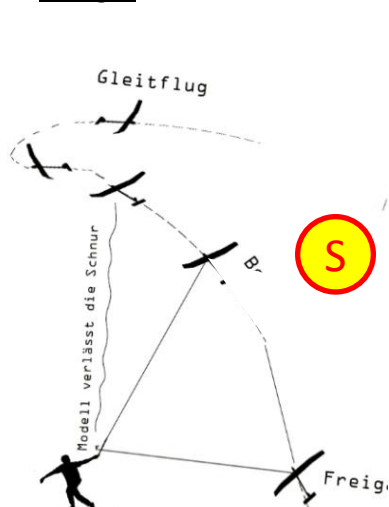


Maximum ~ height  
in m after  
release

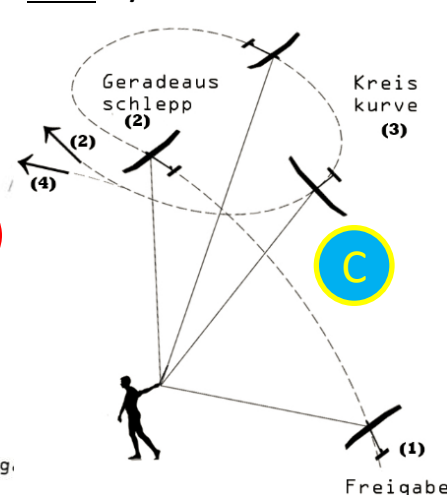


	total HEC ranking in 1 class F1H				
	category ranking in S, C, B <u>only</u> for the yearend ranking				
HEC category	HEC - S	HEC - C	HEC - B	HEC - O	HEC total
<u>main criterion</u> simple, due clear visible for everybody	S = Straight	C = circle	B = Bunt	O = Other	all models incl. O will be ranked in total
	no Bunt		Bunt		
	open hook	circle tow	irreversible <sup>1</sup> or 2 functions	no LDA or Hybrid Profile <sup>2</sup>	
rules with exception	FAI Sporting code + in HEC <u>no</u> minimum weight of 220g + in O no LDA/ Hybrid Profile and several models in different categories are possible to fly in 1 contest				

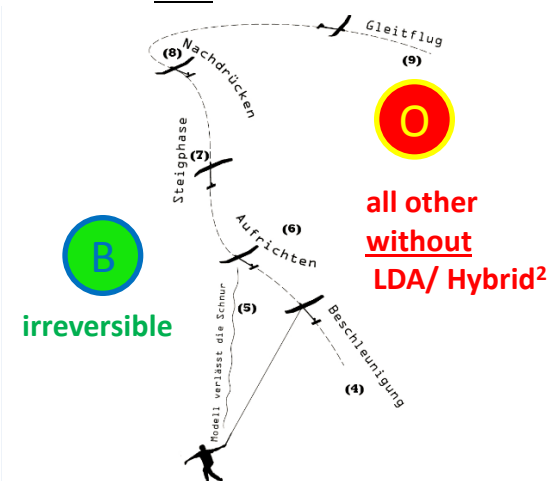
Straight



Circle w/o Bunt



Bunt

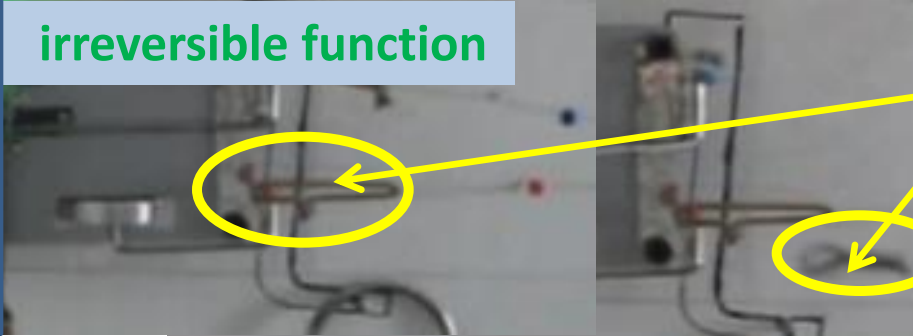


# What are irreversible functions in Freeflight ?

this criteria exist for separation of **B** or **O**, but not existing in categories C and S

H  
E  
C  
-  
B

irreversible function



irreversibel function:

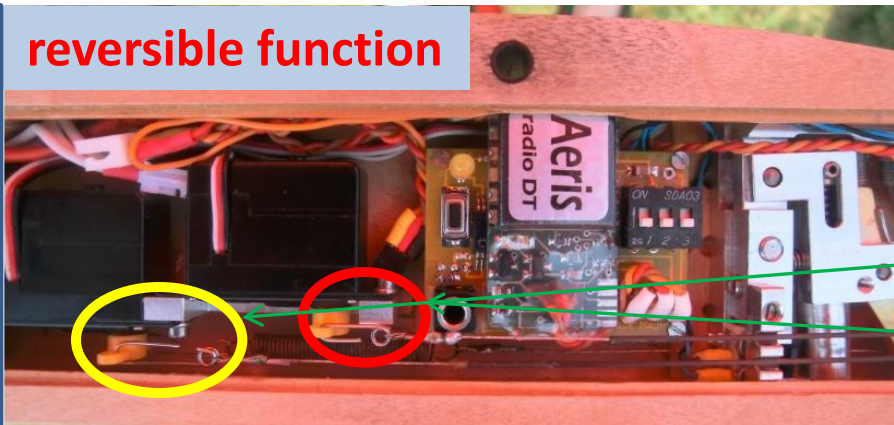
After the release of the line from timer/ servo **no further move** of function is possible

Example for irreversible functions

[www.youtube.com/watch?v=RJolkalfhVg](http://www.youtube.com/watch?v=RJolkalfhVg)

H  
E  
C  
-  
O

reversible function



reversibel function:

line is fixed on the servo/ timer and can be moved after 1<sup>st</sup> move of servo functions again

**Recommendation:** please use **no LDA, Hybrid<sup>2</sup>** Profile in HEC - O

<sup>2</sup> only ranked in HEC until HEC FINAL, no FLY off



# HEC ranking

"glory and honor"



2020

1. HEC - results will be published under

[www.creasus.de/ikarus/HECresults.pdf](http://www.creasus.de/ikarus/HECresults.pdf)

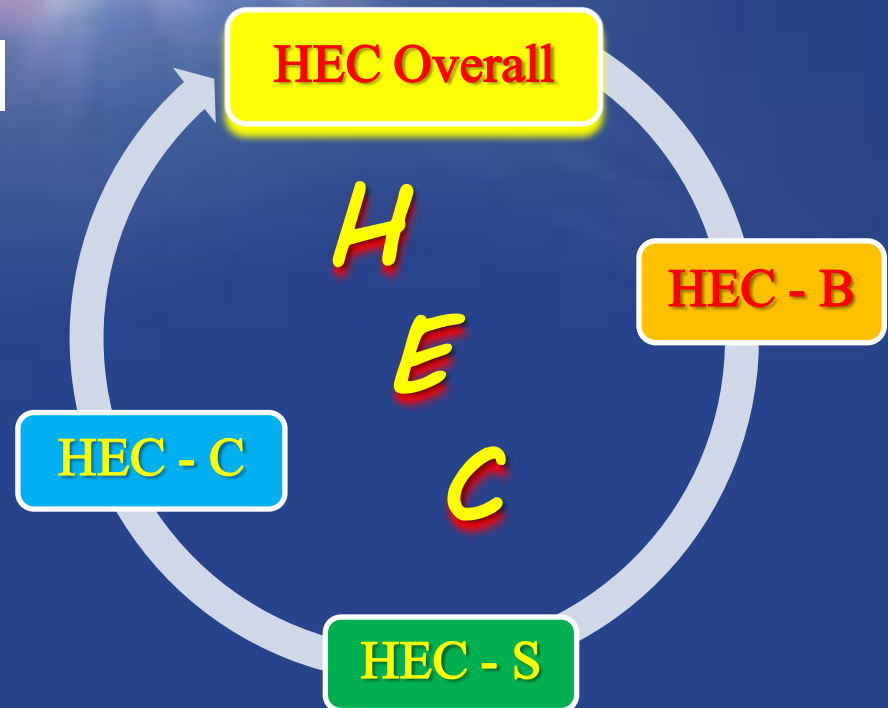
2. The pricegiving ceremony of HEC Winner will take place at HEC Finale

HEC is

## Please donate for HEC

To cover the running costs of a HEC season (website, prices etc.) we need some volunteer donations

Please mail to [HECcoordinator@magic.ms](mailto:HECcoordinator@magic.ms)



→ The main task of this HEC is the promotion and support of the freeflight newcomers/ young people 😊

# HEC - yearend ranking 2020

## E. Overall year result :

- The total score will be determined by addition of best **2 results** in each **category**.
- In case of a **tie** the winner will be ascertained by taking the result of the 3<sup>rd</sup> best result and if necessary in categories C/ B/ O the 4<sup>th</sup> best contest will be the decision maker, otherwise a **Fly Off** in each ranking (category/ total) at the **HEC** final must solve the tie.
- In case of not possible to run a fly off the next best result will be chosen, otherwise the lowest sum of place numbers (of HEC contestants) will be taken (example see Appendix 3).

HEC ranking	HEC - S	HEC - C	HEC - B	HEC - O	HEC total
Yearend ranking	✓	✓	✓	✗	✓
Basis	2 best result				
Decision maker in case of tie	3 <sup>rd</sup> best result				
		4 <sup>th</sup> best result			
precondition for qualification	300%	400%			max in category
	to the HEC final Fly off after last HEC contest				

So the HEC ranking is clear, easy to understand and the fascination stay until the seasonend, to qualify for the HEC Final.



... all infos & details at **HEC** website

<http://www.creasus.de/ikarus/HEC.pdf>

HEC 2020+ vision	<a href="http://www.creasus.de/ikarus/HECdream2020+.pdf">www.creasus.de/ikarus/HECdream2020+.pdf</a>
HEC Overview	<a href="http://www.creasus.de/ikarus/HECoverview.pdf">www.creasus.de/ikarus/HECoverview.pdf</a>
HEC schedule	<a href="http://www.creasus.de/ikarus/HECschedule.pdf">www.creasus.de/ikarus/HECschedule.pdf</a>
HEC rules	<a href="http://www.creasus.de/ikarus/HECrules.pdf">www.creasus.de/ikarus/HECrules.pdf</a>
HEC categories	<a href="http://www.creasus.de/ikarus/HECcategories.pdf">www.creasus.de/ikarus/HECcategories.pdf</a>
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