

MIDLAND HELICOPTER CLUB

Open Scale Competition Rules

Midland Helicopter Club are pleased to announce an Open Scale competition commencing at **10am on Sunday 15th August** to be held at our club field in Warton, Warwickshire, directions can be found at www.midlandhelicopterclub.org.uk. The field will also be open on the Saturday 14th for a scale fly-in. All pilots must show proof of current BMFA insurance if they wish to fly. A & B licenses are NOT required. By entering the competition the pilot accepts the risk of damage to his or her own person or model and indemnifies the Midland Helicopter Club against all possible claims.

OVERVIEW

There will be 2 separate classes so that you can choose which class best suits your model and flying ability. This should give all models/pilots an equal chance at an overall win;

SCALE

This is for scale machine which are not accompanied by documentation and is heavily weighted towards the pilots scale flying abilities i.e. the greater proportion of available points are within the flying section of the competition. The pilot must be the current owner of the machine. There will be a static section where the machine will be judged on build quality, scale additions and the general finish and presentation. This will be followed by a flying section to consist of 5 set manoeuvres and a free flight lasting no more than 6 minutes. Additional points will be awarded for flybarless or multi-blade rotor heads. This class is designed to encourage pilots to enter and to experience scale competition and to show that they can fly their chosen model in an accurate scale manner.

SUPER SCALE

This category is for scale machines which have been built to replicate a specific full size machine and the pilot will be expected to present supporting documentation. The pilot again must be the current owner of the machine. There will be a static section where the machine will be judged against the provided documentation and available points will be weighted to this part of the competition. It will be followed by a flying section to consist of 5 set manoeuvres and a free flight lasting no more than 6 minutes. Additional points will be awarded for flybarless or multi-blade rotor heads. This class is designed to encourage pilots to enter machines that have typically required a reasonable level of fabrication and accurate modelling skills.

The emphasis is on fun and for the experience of scale competition flight, but prizes will be awarded in both classes.

RULES

SCALE CLASS

Maximum available "scale" points	100
Maximum available "flying" points	250

1. Safety. Safety consideration of spectators, event personnel and participants shall be of primary importance. All models shall be subject to a safety inspection at the discretion of the Contest Director. A model judged to be unsafe due to a crash must be re-inspected prior to being flown again. Dangerous flying or poor sportsmanship shall be grounds for disqualification. All manoeuvres shall be flown in front of the Pilot Line.

2. Model Requirements. There shall be no limitation on the types of equipment that can be fitted to the helicopter with exception of metal main or tail rotor blades, which are not allowed. Each contestant shall be permitted one model entry in this class.

3. Owner of Model Rule. The owner and flier of the model helicopter shall be one and the same person. The contestant will be required to sign a declaration that they are the owner, have inspected their model and are satisfied that it is safe to fly.

4. Static Judging. The model shall be placed on the judging table. The judges shall be allowed to approach the model but may not touch it. The contestant shall be the only person to move the model and/or open any panels or doors for the judges to inspect. The contestant shall have up to 5 minutes to show the judges any special features which appear on his model such as lights, retracts, or other working detail and the judges may ask specific questions regarding the model and its features.

5. Static Scoring. Total 3 judges, maximum 100 points per judge and the final score will be an average of the 3 judges' scores.

Entries shall be judged on the following items with the maximum point values listed next to each.

5.1 Fuselage (Maximum 20 points) and including any added markings.

5.2 Cockpit (Maximum 10 points).

5.3 Landing Gear (Maximum 10 points).

5.4 Main rotor (Maximum 30 points). Only helicopters using a flybarless or multi-blade rotor head which replicates that of the full size model will be awarded up to 30 points. This is intended to part compensate for the added difficulty in flying a scale rotor head.

5.5 Build Quality (Maximum 30 points).

Flying

6. Set Manoeuvres

6.1 Ten (10) Second Hover in ground effect over the heli-pad (Maximum 20 points). Higher points will be awarded to pilots who maintain a constant height and position.

6.2 Three Hundred and Sixty (360) degree static pirouette. (Maximum 20 points). This manoeuvre should be done in ground effect. Higher points will be awarded to pilots who maintain a constant height and position.

6.3 Thirty to thirty five (30-35) Degree Climb Out to a minimum of eight (8) meters. (Maximum 20 points).

6.4 Ten (10) Second Observation Hover (Maximum 20 points). Once the pilot has achieved at least 8 meters altitude, he will hold a static hover for 10 seconds. This manoeuvre can be done in an orientation to suit the pilot i.e. Nose-in or Tail-in, however, more points will be awarded for nose in.

6.5 Translational Landing. Minimum altitude of eight (8) meters the helicopter will begin a translational straight-line descent to a soft landing on the helipad. Decent angle should be 30-35 degrees (Maximum 20 points).

6.6 Scale Freestyle (Maximum 100 points) for nominated manoeuvres. For this section the pilot must give each of the judges a flight schedule which would consist of up to five (5) manoeuvres that replicate the style of the full size machine. The manoeuvres must be flown in a smooth manner with the start and finish of each announced to the judges by his/her caller. Time to allow the judges to write down the score for each one should be allowed for. The take off and landing at the start and end of the freestyle can be included in the five manoeuvres for individual scoring. Each manoeuvre carries a maximum of 20 points.

6.7 Auto Rotation Option. Should a contestant wish to end his/her freestyle flight with an auto rotation to the scale helipad, he/she may do so for a potential bonus of up to 50 points.

7. Flight Scoring: Total 3 judges, maximum 250 points per judge and the final score will be an average of the 3 judges' scores.

FINAL SCORE

Your final score will be an amalgamation of both your static and flying score. In the case of a draw, the pilot with the highest Flying round score will be awarded the winner. In the unlikely event that a draw still exists, the drawing pilots will be asked to perform a further 10 second hover and the winner will be chosen on the merits of this manoeuvre.

SUPER SCALE CLASS

Maximum available “scale” points	250
Maximum available “flying” points	100

1. Safety. Safety consideration of spectators, event personnel and participants shall be of primary importance. All models shall be subject to a safety inspection at the discretion of the Contest Director. A model judged to be unsafe due to a crash must be re-inspected prior to being flown again. Dangerous flying or poor sportsmanship shall be grounds for disqualification. All manoeuvres shall be flown in front of the Pilot Line.

2. Model Requirements. There shall be no limitation on the types of equipment that can be fitted to the helicopter with exception of metal main or tail rotor blades, which are not allowed. Each contestant shall be permitted one model entry.

3. Owner of Model Rule. The owner and flier of the model helicopter shall be one and the same person. The contestant will be required to sign a declaration that they are the owner, have inspected their model and are satisfied that it is safe to fly.

3.1 Documentation Requirements. Contestants should provide documentation to support the model they are entering. To score maximum points, you will be expected to provide reasonable documentation of the rotorhead, tail rotor, cockpit, exterior, landing gear which matches that of your model. A 3 view drawing of the full size machine is desirable although it is not essential as long as you can provide evidence that the machine modelled has the detail seen in the full size.

4. Static Judging. The model shall be placed on the judging table. The judges shall be allowed to approach the model but may not touch it. The contestant shall be the only person to move the model and/or open any panels or doors for the judges to inspect. The contestant shall have up to 10 minutes to show the judges any special features which appear on his model such as lights, retracts, or other working detail and the judges may ask specific questions regarding the model and its features.

5. Static Scoring. Total 3 judges, maximum 250 points per judge and the final score will be an average of the 3 judges' scores.

Entries shall be judged on the following items with the maximum point values listed next to each.

5.1 Fuselage (Maximum 70 points) and including any added markings and accuracy when compared to the submitted documentation and photos.

5.2 Cockpit (Maximum 50 points). Accuracy to submitted documents.

5.3 Landing Gear (Maximum 20 points). Accuracy to submitted documents

5.4 Tail Rotor (Maximum 20 points). Accuracy to submitted documents

5.5 Main rotor (Maximum 50 points). Rotor heads with a flybar will be awarded a maximum of 20 points. Helicopters using a flybar-less or multi-blade rotor head which replicates that of the full size model will be awarded up to 50 points. This is intended to part compensate for the added difficulty in flying a scale rotor head. Accuracy to submitted documents

5.6 Build Quality & Craftsmanship (Maximum 40 points). Accuracy to submitted documents.

Flying

6. Set Manoeuvres

6.1 Ten (10) Second Hover in ground effect over the heli-pad then land (Maximum 10 points). Higher points will be awarded to pilots who maintain a constant height and position.

6.2 Three Hundred and Sixty (360) degree static pirouette. (Maximum 10 points). This manoeuvre should be done in ground effect. Higher points will be awarded to pilots who maintain a constant height and position.

6.3 Thirty to thirty five (30-35) Degree Climb Out to a minimum of eight (8) meters. (Maximum 10 points).

6.4 Ten (10) Second Observation Hover (Maximum 20 points). Once the pilot has achieved at least 8 meters altitude, he will hold a static hover for 10 seconds. This manoeuvre can be done in an orientation to suit the pilot i.e. Nose in or Tail in, however, more points will be awarded for nose in.

6.5 Translational Landing. Minimum altitude of eight (8) meters the helicopter will begin a translational straight-line descent to a soft landing on the helipad. Decent angle should be 30-35 degrees (Maximum 10 points).

6.6. Scale Freestyle (Maximum 50 points) for nominated manoeuvres. For this section the pilot must give each of the judges a flight schedule which would consist of up to five (5) manoeuvres that replicate the style of the full size machine. The manoeuvres must be flown in a smooth manner with the start and finish of each announced to the judges by his/her caller. Time to allow the judges to write down the score for each one should be allowed for. The take off and landing at the start and end of the freestyle can be included in the five manoeuvres for individual scoring. Maximum 10 points per manoeuvre.

7. Flight Scoring: Total 3 judges, maximum 100 points per judge and the final score will be an average of the 3 judges' scores.

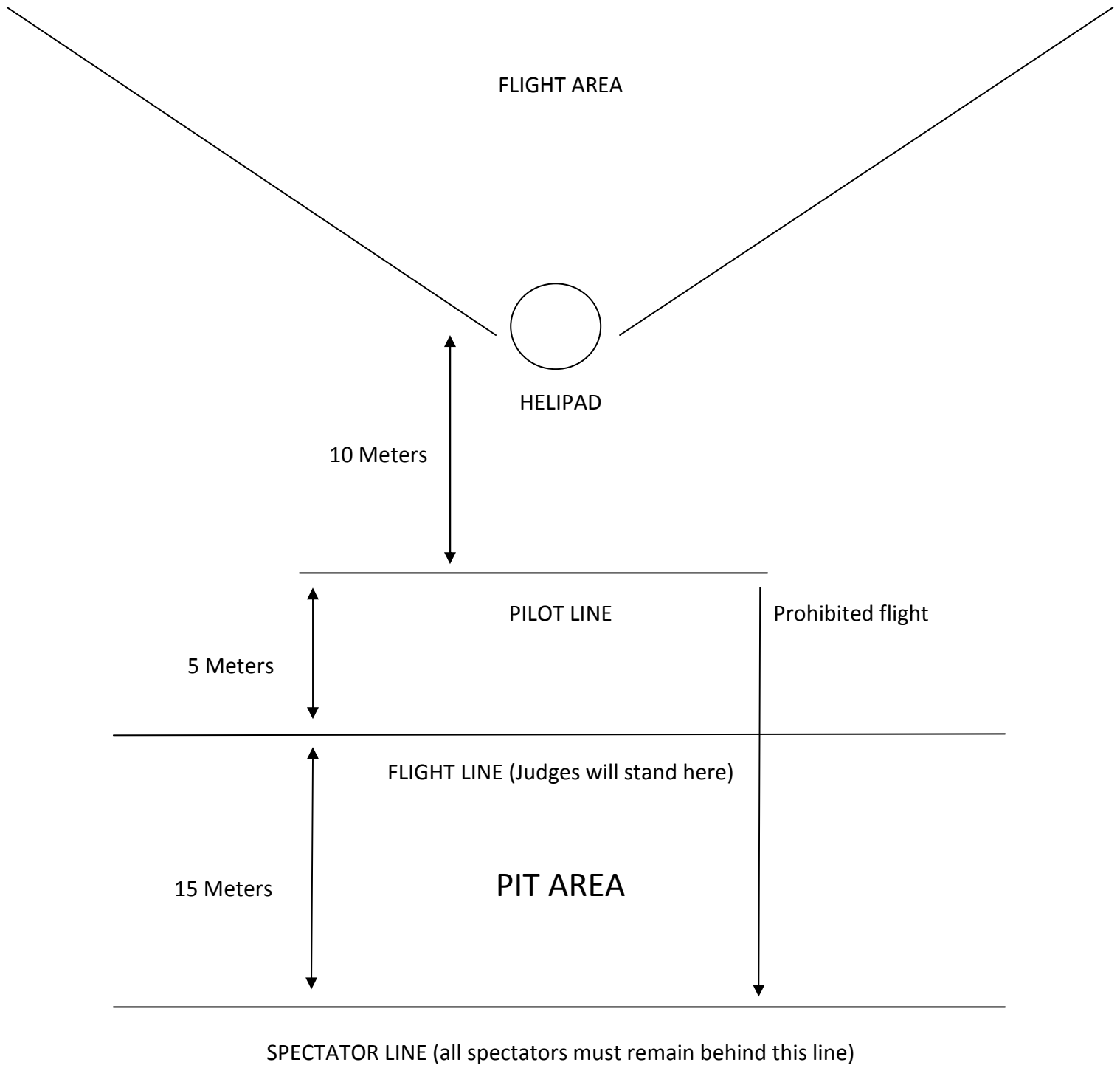
FINAL SCORE

Your final score will be an amalgamation of both your static and flying score. In the case of a draw, the pilot with the highest Static round score will be awarded the winner. In the unlikely event that a draw still exists, the drawing pilots will be asked to perform a further 10 second hover and the winner will be chosen on the merits of this manoeuvre.

PILOT FLIGHT GUIDELINES

- 1.** The contest layout will be as per figure 1, with the pilot located behind the “Pilot Line” and all flights will start and finish at the helipad. The pilot and, if chosen, his or her caller shall remain behind the pilot line for the entire flight.
- 2.** Each contestant will be allowed reasonable time to start and transport their model to the flight line and to perform a “trimming” hover if required.
- 3.** Once the contestant or his caller has announced the start of his flight, he is not allowed to make any further adjustments to the helicopter. Engine restarts after the flight has commenced are not allowed.
- 4.** The manoeuvres shall be flown in proper sequence and away from the spectators. The maximum flying time is six (6) minutes and begins when the first manoeuvre is announced.
- 5.** Contestants shall fly the same model as that which was static judged in its entirety. You are not for example, allowed to change rotor heads or blades.

Figure 1



MIDLAND HELICOPTER CLUB

OPEN SCALE COMPETITION SUNDAY 15TH AUGUST 2010

(Fun fly is also open to all on Saturday 14th)

ENTRY FORM

Full Name.....

Address.....

.....

Tel. No.....

E-mail.....

N.B. You can enter a maximum of one machine in each class.

Machine Description

Class Entered

(i.e. Vario 222 or Raptor 500E)

(Scale or Super Scale)

1.....

.....

2.....

.....

I confirm I am the owner of the above model/s and enclose a cheque for £15 per class entered. (All cheques to be made payable to "Midland Helicopter Club").

Signed.....

N.B. the above entrance fee includes access to the field on Saturday 14th as well as the Sunday 15th. Once we are in receipt of payment, your entry number will be confirmed to you in writing and you must bring the confirmation notice with you when you attend the field.

Please return your entry and payment to: Midland Helicopter Club, 4 Rowley Close, Edingale, Staffordshire B79 9LN.