

COMET

1931



INTRODUCTION

We take great pride in presenting to the model building public our 1931 catalogue and guide.

The COMET line of construction sets, supplies, and blueprints are offered to you with the COMET guarantee against all defects. We will be only too glad to make good any defective items. Satisfied customers are COMET boosters.

COMET supplies are selected by experts from among the choicest materials obtainable. You be the judge.

In order to insure success with model airplane construction and flight we maintain a question and answer bureau. We will be glad to answer all inquiries pertaining to model aviation. We are in this business not only to supply you with the best materials but also to serve you in every way possible.



COMET MODEL AIRPLANE & SUPPLY CO.

4205 W. 22nd STREET

CHICAGO, ILLINOIS

15 USEFUL HINTS

1. Balsa wood is easily cut with a sharp knife or razor blade. In cutting across the grain use a sawing cut.

2. Bamboo is bent around a candle flame with the shiny side of the bamboo on the outside of the bend. Bamboo splits readily into thin strips with a knife or razor blade.

3. In gluing parts together do not use too much ambroid or cement as it will take more time to harden and at the same time adds unnecessary weight.

4. Japanese tissues are fastened to models with banana liquid. Apply banana liquid to the framework with a brush and press paper into place over banana oiled surface.

5. To draw the paper smooth and taut on your models spray with water. For outdoor flying apply dope after spraying to strengthen the paper.

6. The leading edge of a propeller should always be straight. The widest part of the blade is one-third of the blade's length from the tip.

7. To camber a thin propeller rub cement into the blades on the side you wish to be concave.

8. A model in flight has the tendency to rotate on its longitudinal axis line opposite the direction in which the propeller revolves. This is known as torque. To overcome this, give the drooping wing more lift by warping more incidence into it.

9. In sandpapering balsa parts do not use fingers to hold the sandpaper as the balsa will have depressions in it. Wrap the sandpaper around a block.

10. A good method of hollowing out nosepieces, headrests, etc., is by cutting in half, hollowing out each half and cementing the halves together.

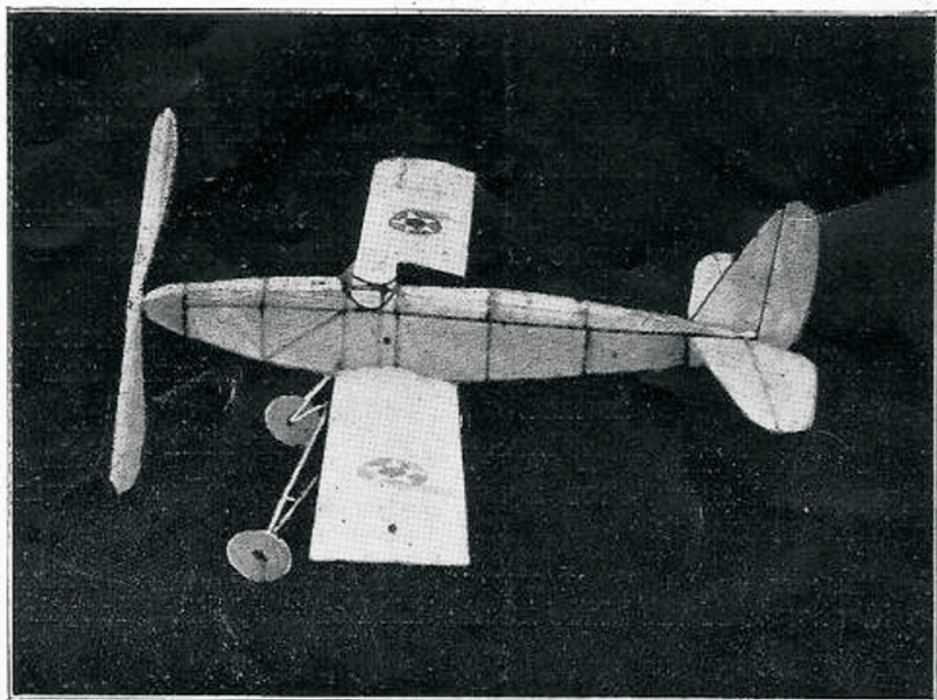
11. The horizontal fin should be in line with the rubber motor.

12. A model should fly with the center of lift at the balancing point of the fuselage. (There are a few exceptions.) If the model does not perform well with the wing at this point the trouble lies in the elevators.

13. In low wing models where the thrust is above the wings move the wings a little ahead of the balancing point. In high wing models the wing is placed behind the balancing point.

14. The center of lift is one-third the wing's width (chord) from the leading edge at the center of the span. (In normal flight.)

15. The area of the elevators should be about one-third the area of the wings.



THE DART

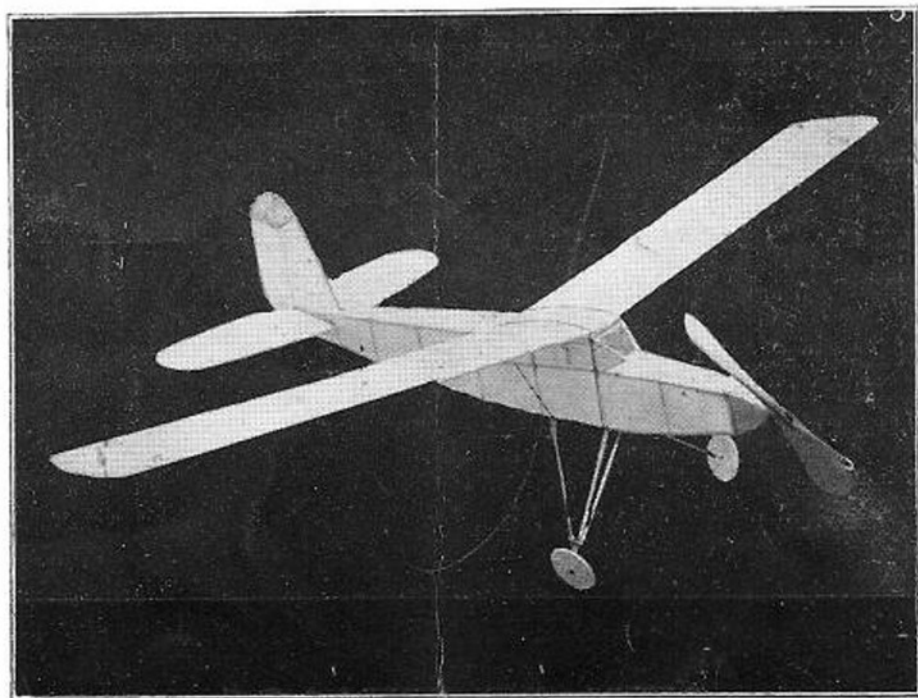


Length overall — $16\frac{1}{2}$ in. Wing span — 24 in.

A dandy flyer. Can be assembled in a surprisingly short time by the average boy. This model is scientifically designed and will give excellent results indoors or outdoors. Can be hand launched or will take off from the ground. Wings are detachable and will not break upon striking any object.

Kit contains complete instructions and blueprints, balsa strips and parts cut to correct dimensions, ribs printed on rib veneer, wheels, wire parts, insignia, washers, Japanese tissue, etc. Packed in attractive individual boxes.

CONSTRUCTION SET\$1.25 postpaid



THE BUTTERFLY

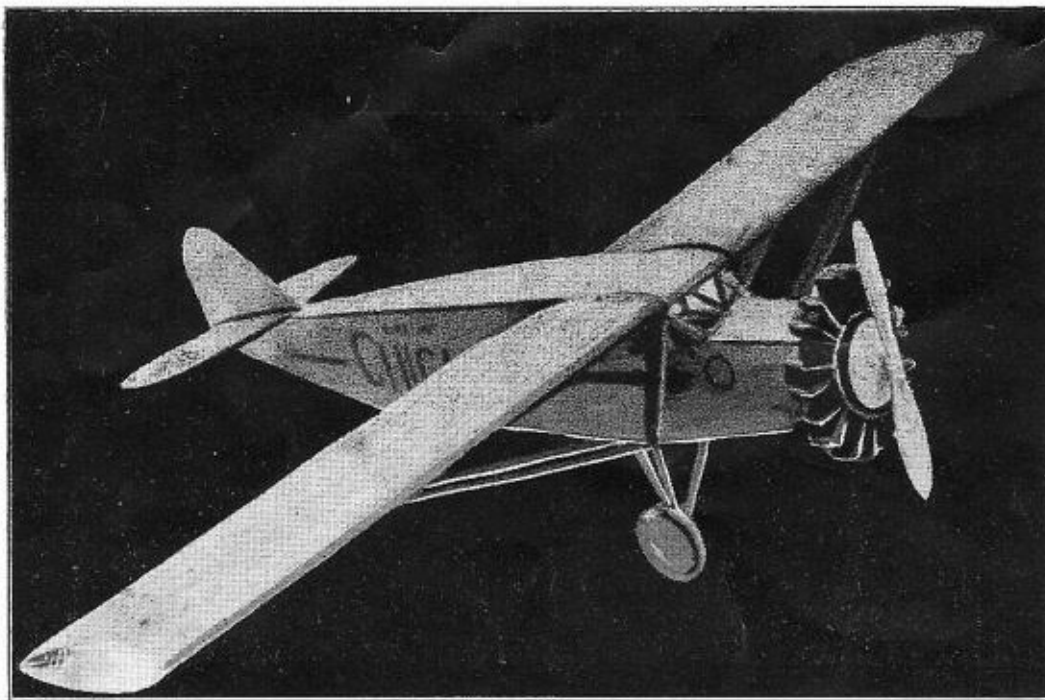


Length overall — 22 in. Wing span — 34 in.

A sure flyer. Is guaranteed to fly over 1,000 ft. Flights of three minutes and over covering more than 3,000 ft. have been obtained. The Butterfly resembles a real ship but has the necessary changes to make it a real flying model. Beginners have assembled the Butterfly kit without any difficulties and have attained successful results. You can't help but make this model fly.

This set contains complete instructions, a full-sized blueprint showing all details, balsa wheels, balsa parts cut to the right sizes, bamboo, wire parts, Japanese tissue, rubber motor, butterfly insignia for rudder, cellophane for the windows, balsa wing and elevator tips, etc. Packed in attractive individual boxes.

CONSTRUCTION SET\$2.00 postpaid



CITY OF CHICAGO



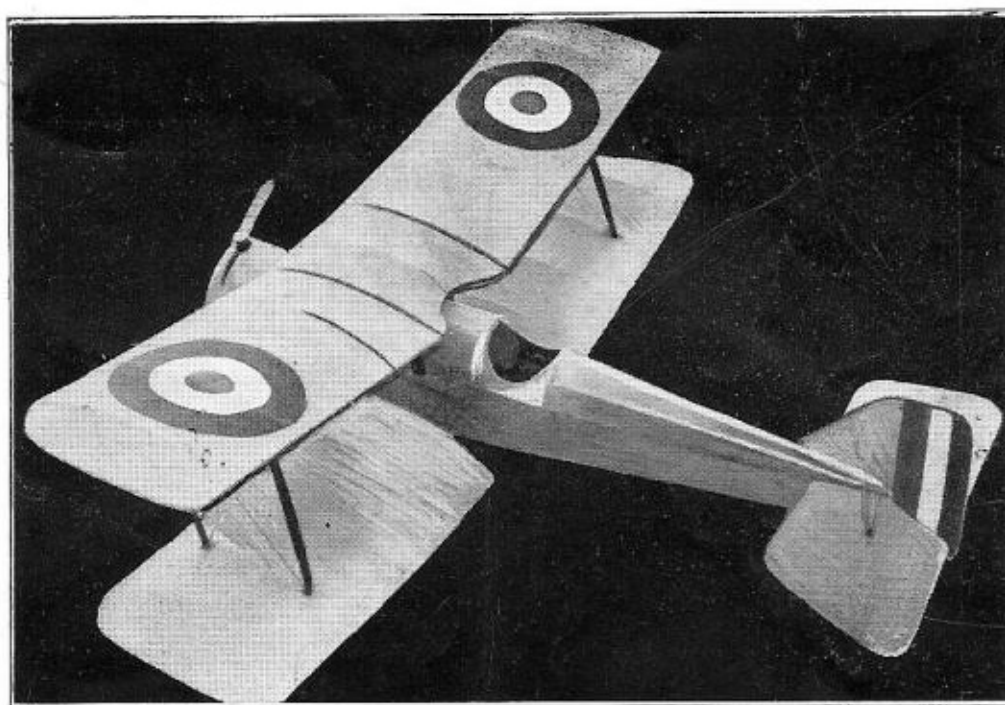
Endurance Plane

Length overall — $16\frac{1}{2}$ in. Wing span — 24 in.

A perfect reproduction of the famous Stinson-Detroiter plane which broke the world's endurance record for sustained flight on July 4, 1930, piloted by the Hunter brothers. A record of over 553 hours was established. This construction set is a record smasher too. Build a model and enter it in any scale model contest and see for yourself. The finished parts in this set makes it easy to assemble in a short time. The kit contains complete instructions for converting into a flying model.

Practically all parts in this set are finished. Balsa sides, dummy motor, celluloid wheels, wing tips, ready cut ribs, finished elevator and rudder, "City of Chicago" with arrows ready to paste onto fuselage sides, wire parts, colored dope, complete instructions and a full-sized blueprint are contained in each kit. Packed in an attractive individual box.

CONSTRUCTION SET\$4.00 postpaid



BRITISH S.E-5



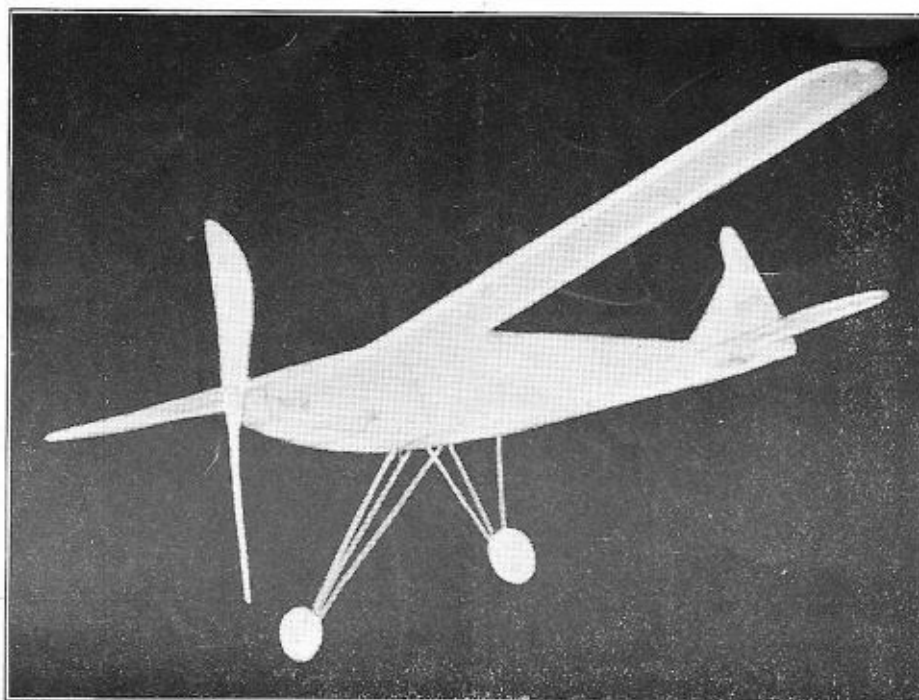
A World War Fighter

Length overall — 18½ in. Wing span — 24 in.

The S.E-5 scout plane has a great history. During 1916 the German Fokker D-7 had the supremacy of the air. The British Royal Air Force developed one of the best combat planes of that time. With the coming of the new S.E-5 the supremacy of the air was won back. This plane adapts itself readily into an excellent flying scale model. Scores of boys who have assembled this set have succeeded in obtaining flights of between 30 and 50 seconds.

The kit has all the parts to build a successful model such as: balsa pieces cut to size, Japanese tissue, celluloid wheels, radiator, wire parts, bamboo, wing and landing gear struts, straight wire for bracing, insignia, complete instructions and a large, full-sized blueprint showing all details. Packed in attractive individual boxes.

CONSTRUCTION SET\$3.00 postpaid



OUTDOOR FUSELAGE MODEL

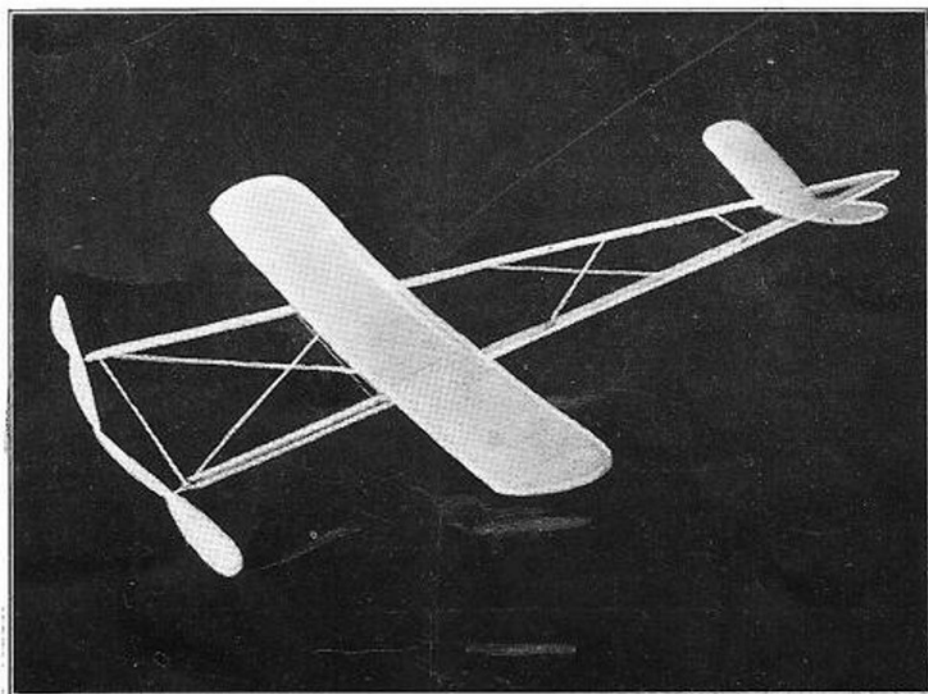


Length overall — 25 in. Wing span — 34 in.

This model is not much for looks but when it comes to flying it has them all beat. Many record flights have been made with this wonderful flyer. It is scientifically designed by our model engineer. When completed, it weighs less than an ounce. Get this set and prove your skill in making a real record breaking model.

This kit is complete containing all balsa pieces cut to size, balsa wheels, ribs printed on rib veneer, bamboo, wire parts, washers, Japanese tissue, rubber motor, complete instructions, a full-sized blueprint showing all details, and other necessary materials. Packed in individual boxes.

CONSTRUCTION SET\$1.75 postpaid



TWIN PUSHER

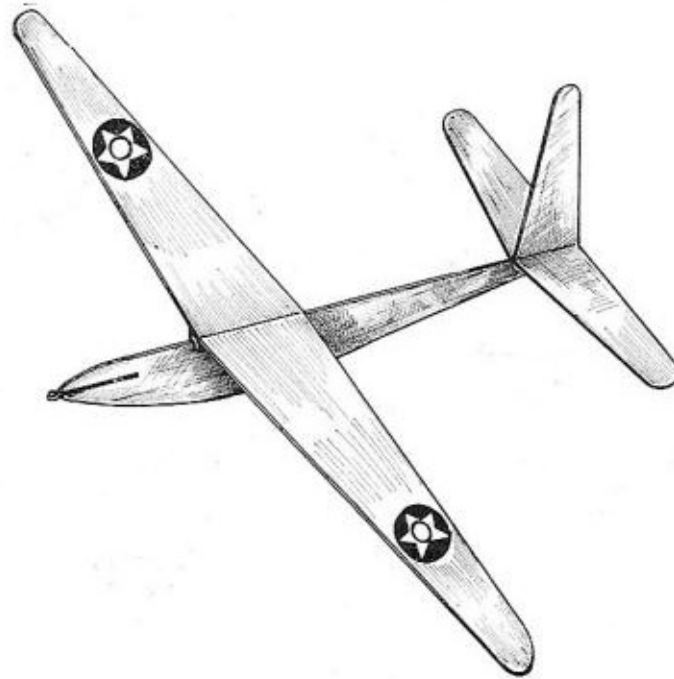


Length overall — 40 in. Wing span — 32 in.

An excellent distance flyer. Has flown more than a mile and has attained a great height. This model won half of the events at the manufacturers' meet in the 1930 National Air Races at Chicago. This kit is easily assembled and will win contests for you.

This set has all the wing spars and longerons cut to size. The ribs are printed on rib veneer. Two rubber motors, bamboo, washers, Japanese tissue, and a blueprint. Complete in every detail so that an instruction sheet is unnecessary, are included in the kit among other parts. Packed in individual boxes.

CONSTRUCTION SET\$2.25 postpaid



SAIL PLANE

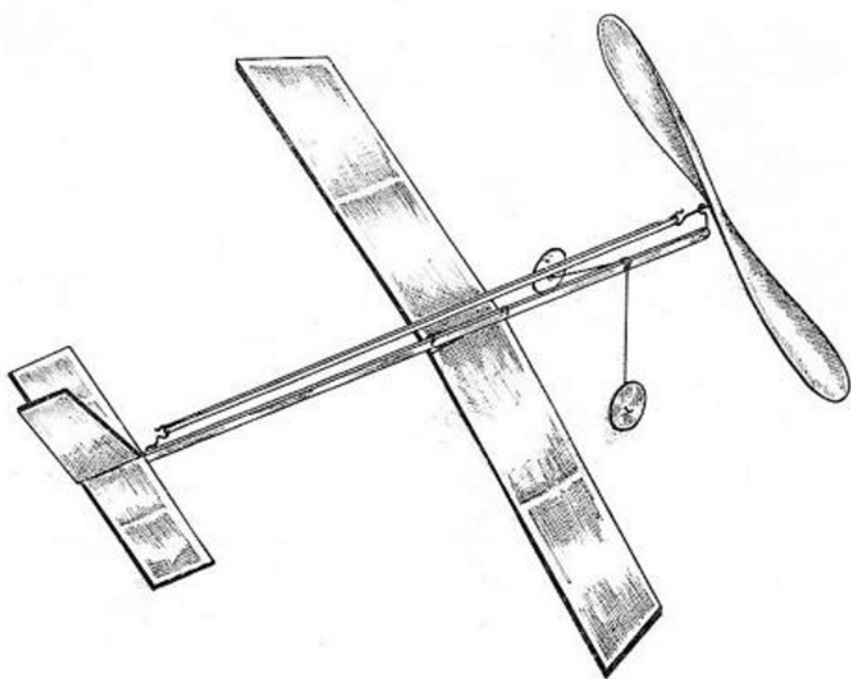


Length overall — 10 in. Wing span 28 in.

Rides on the air currents just like real soarers. Flights of over 60 seconds have been witnessed in hilly territory where upward air currents are prevalent. If you live in flat territory then you can fly this sail plane like a kite. No experience is required to assemble this model as all the parts are cut to size and shape. Can be assembled in a few minutes by anybody.

Each kit contains complete instructions on assembling and flying. Packed in an individual attractive box.

CONSTRUCTION SET\$0.35 postpaid



HORSE FLY



Length overall — 11½ in. Wing span — 12 in.

We recommend this construction set to the beginner. Full-sized blueprint and complete instructions make this a simple set to assemble. We have seen this model fly over 2,000 feet. Many beginners have had great success with the Horse Fly and we know you can too.

Kit contains all balsa parts cut to size, balsa wheels, Japanese tissue, rubber motor, wing insignia, bamboo, instructions and detailed blueprint among many other parts. Packed in an individual attractive box.

CONSTRUCTION SET\$0.50 postpaid

ACCESSORIES

ALUMINUM (See Tubing and Wire):

Sheet aluminum .006 in. thickness.....	6 in. x 4 in.....	ea.	\$0.05
.006 in. thickness.....	12 in. x 12 in.....	ea.	.20
.006 in. thickness.....	12 in. x 24 in.....	ea.	.40
.010 in. thickness.....	6 in. x 4 in.....	ea.	.06
.010 in. thickness.....	12 in. x 12 in.....	ea.	.25
.010 in. thickness.....	12 in. x 24 in.....	ea.	.45

BALSA:

Balsa wood varies considerably in density and grade. Formerly balsa trees grew wild but now it is cultivated giving a much better grade. We handle grade A from the cultivated stock.

SHEETS

1/32 in. x 2 in. x 36 in.	ea.	\$0.10
1/16 in. x 2 in. x 36 in.	ea.	.10
1/16 in. x 3 in. x 18 in.	ea.	.12
1/8 in. x 2 in. x 36 in.	ea.	.15
1/8 in. x 3 in. x 18 in.	ea.	.15
3/16 in. x 2 in. x 36 in.	ea.	.18
1/4 in. x 2 in. x 36 in.	ea.	.25
1/2 in. x 3 in. x 24 in.	ea.	.35

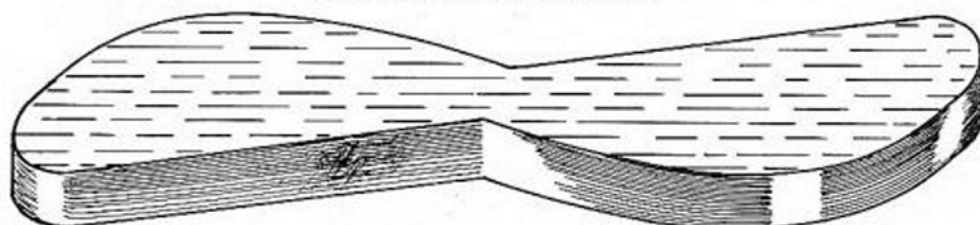
PROPELLER BLOCKS

We have arranged the propeller blocks according to pitch. For twin-pushers and where power is required use low pitch. For general outdoor models use medium pitch. Order high pitch for indoor duration models. Order by number.

Length	LOW PITCH			MEDIUM PITCH			HIGH PITCH		
	No.	Size	Price	No.	Size	Price	No.	Size	Price
6"	1	1/2" x 3/4"	3c	2	1/2" x 3/8"	2c	3	5/8" x 5/8"	3c
7"	4	7/16" x 3/4"	4c	5	5/8" x 3/4"	4c	6	3/4" x 3/4"	5c
8"	7	3/4" x 1 1/4"	6c	8	7/8" x 1 1/4"	6c	9	7/8" x 7/8"	5c
9"	10	9/16" x 1 1/4"	7c	11	11/16" x 1 1/4"	7c	12	7/8" x 7/8"	6c
10"	13	3/4" x 1 3/8"	7c	14	3/4" x 1 1/4"	7c	15	1 1/8" x 1 1/4"	9c
11"	16	9/16" x 1 3/8"	7c	17	11/16" x 1 3/8"	8c	18	1" x 1 3/8"	9c
12"	19	5/8" x 1 1/4"	8c	20	3/4" x 1 1/2"	10c	21	1 1/4" x 1 1/2"	14c
13"	22	5/8" x 1 3/8"	9c	23	3/4" x 1 3/8"	10c	24	1 1/4" x 1 3/4"	17c
14"	25	3/4" x 1 3/4"	17c	26	1" x 1 3/4"	18c	27	1 3/16" x 1 3/4"	20c
15"	28	3/4" x 2"	20c	29	1" x 2"	22c	30	1 1/8" x 1 3/4"	23c

Helicopter Propeller Blocks Pair, 10c

PROPELLER BLANKS



6 in.10c
8 in.14c

10 in.18c
12 in.20c

STRIPS

1/16 in. x 1/16 in. x 24 in.	ea.	\$0.02
1/16 in. x 1/8 in. x 18 in.	ca.	.02
3/32 in. x 3/32 in. x 24 in.	ea.	.02
1/8 in. x 1/8 in. x 36 in.	ea.	.03
3/32 in. x 3/16 in. x 36 in.	ea.	.04
1/8 in. x 1/4 in. x 36 in.	ea.	.05
3/16 in. x 3/16 in. x 36 in.	ea.	.05
1/4 in. x 1/4 in. x 36 in.	ea.	.06
1/8 in. x 3/8 in. x 40 in.	ea.	.07
3/16 in. x 3/8 in. x 40 in.	ea.	.08
1/4 in. x 1/2 in. x 40 in.	ea.	.12

NOTE: We furnish bass, spruce, and white pine in blocks, propeller blanks and strips, as listed, at the same price as balsa. We do not cut these woods in slabs.

BAMBOO

1/16 in. x 1/4 in. x 12 in.	ea.	\$0.02
1/16 in. x 1/4 in. x 15 in.	ea.	.04
Shredded bamboo. Averages 1/32 in. x 1/16 in. x 12 in.	per doz.	.06

BLUEPRINTS

All blueprints are full size unless otherwise specified.

Comet Helicopter. (World record holder)	ea.	\$0.10
Horsefly. (With instructions.) A baby R.O.G. Wing span 12 in.	ea.	.15
Butterfly. An outdoor or indoor cabin monoplane	ea.	.25
Outdoor Fuselage Monoplane	ea.	.25
Dart. A low wing scout plane	ea.	.25
Twin-pusher. Half size	ea.	.25

SCALE PRINTS

Travel Air Mystery Ship. RA-100. Wing span 17 7/16 in.	ea.	.25
Graf Zeppelin. With mooring mast. 24 in. long	ea.	.25
Vought Corsair. Wing span 24 in.	ea.	.40
S'E-5 Wing span 24 in.	ea.	.40
City of Chicago. Stinson-Detroiter. Wing span 24 in.	ea.	.40
Curtiss Hawk. Prestone cooled. Wing span 24 in.	ea.	.40
Boeing Pursuit. P 12 B. Wing span 24 in.	ea.	.40

BOTTLED GOODS

Acetone Thinner for ambroid or cement	1 oz.	\$0.10
Acetone Thinner for ambroid or cement	2 oz.	.15
Banana liquid	1 oz.	.10
Banana liquid	2 oz.	.15
Dope. Black, blue, green, orange, red, yellow, brown	1 oz.	.15
Our dope shrinks as well as colors Japanese tissues and silk.		
Transparent dope	1 oz.	.10
Aluminum or gold powder. Mixes with banana liquid or trans- parent dope	Per package	.05

GLUE

Ambroid. Small tube.....	10c	Large tube.....	20c
Cement. Small tube.....	8c	Large tube.....	15c

INSIGNIA

Bull's eye having gummed backs. 1 5/16 in. dia. and 3 3/4 in. dia. per pair	\$0.05
Rudder bars for the S'E-505
Star. Gummed backs. 1 1/2 in. and 2 1/2 in. dia.	per pair .05

MOTOR

Celluloid dummy motor. Double impression, 9 in. dia.	ea.	\$0.65
---	-----	--------

PAPER

Hakone Japanese silk tissue. 21 in. x 31 in.	ea.	.05
Mino Japanese tissue. 21 in. x 31 in.	ea.	.05
Superfine Japanese tissue. 18 in. x 24 in.	ea.	.10
Cellophane. Waterproof. Used for windows on cabin models.		
Is very light	per sq. ft.	.10

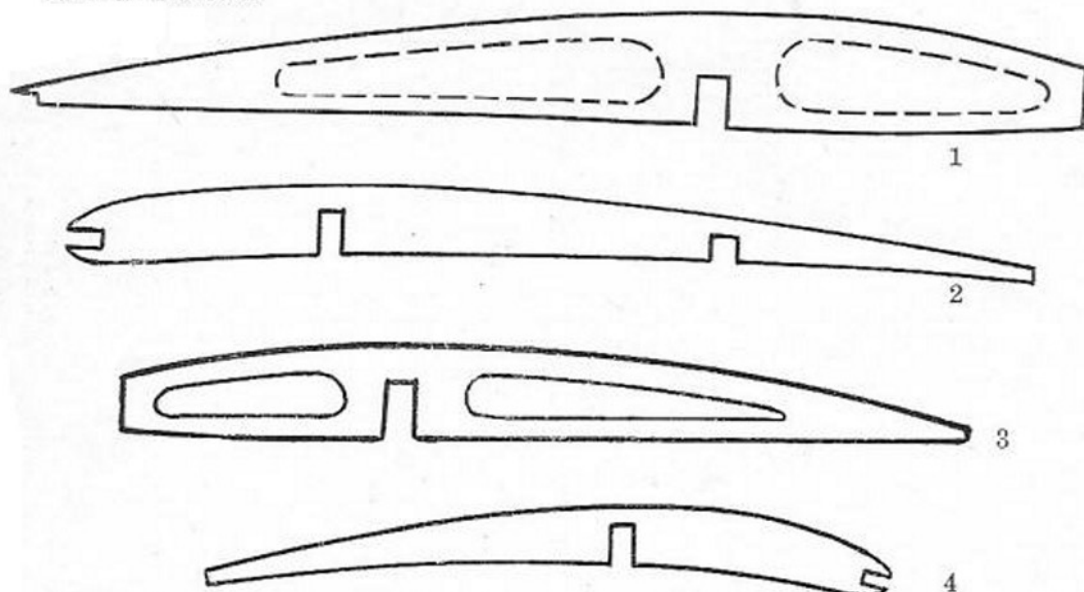
PROPELLERS

Our propellers are hand carved and sanded to a very smooth finish with shaft in place. Furnished in balsa only.

6 in.....	40c	10 in.....	65c
8 in.....	50c	12 in.....	75c

When ordering state length, whether right or left hand and on what type of model to be used.

RIB SECTIONS



Ribs are printed on rib veneer approximately 3/64 in. thick.

Our twin pusher ribs (No. 1) 36 to a sheet.....	per sheet	\$0.25
S.E-5 ribs (No. 2) 15 to a sheet.....	per sheet	.15
Butterfly and Outdoor fuselage model ribs (No. 3)		
18 to a sheet	per sheet	.15
Dart ribs (No. 4) 21 to a sheet	per sheet	.15

REED

1/16 in., 1/8 in., and 3/16 in. dia. 3 ft. coils03
--	-----

RUBBER

We carry a high grade of championship rubber manufactured especially for us.

1/32 in. x 1/32 in.....2 ft. for 1c	1/16 in. x 1/16 in.....per ft. 1c
1/32 in. x 1/16 in.....2 ft. for 1c	1/32 in. x 1/8 in.....per ft. 1c
1/32 in. x 3/16 in.	per ft. 1 1/2c

SKEINS

All Skeins contain approximately 225 ft. of Rubber.

1/32 in. x 1/32 in.....per skein \$0.75	1/16 in. x 1/16 in.....per skein \$1.10
1/32 in. x 1/16 in.....per skein \$1.00	1/32 in. x 1/8 in.....per skein \$1.75
1/32 in. x 3/16 in.....per skein \$2.15	

RUBBER LUBRICANT

Our rubber lubricant will increase the winds in your rubber motor and will give your model greater efficiency.

Per half ounce bottle	\$0.10
-----------------------------	--------

SANDPAPER

Suited for model airplane useper package \$0.05
THRUST BEARINGS (Propeller Hangers)ca. .05

TUBING

Seamless brass tubing. 1/16 in. dia.per ft. .10
Seamless brass tubing. 3/32 in. dia.per ft. .12
Seamless brass tubing. 1/8 in. dia.per ft. .14
Seamless aluminum tubing. 1/8 in. dia.per ft. .10

WASHERS

Per package of 1005

WHEELS

Balsa wheels 1 in. dia., 1/16 in. thick.....per pair \$0.03
Balsa wheels 1 1/2 in. dia., 3/32 in. thickper pair .05
1 3/8 in. dia. double impression celluloid wheels.....per pair .25
1 7/8 in. dia. double impression celluloid wheels.....per pair .40
1 1/2 in. dia. aluminum wheels with balloon tires.....per pair .35

WIRE

We carry the best and toughest grade of rustproof music wire furnished straightened in 2 ft. lengths.per length \$0.03
Can be furnished coiled in any length at 1c per ft.

We carry the following sizes:

No. 1—.010 in. No. 6—.016 in. No. 9—.022 in. No. 14—.033 in.
No. 3—.012 in. No. 7—.018 in. No. 10—.024 in. No. 18—.041 in.
No. 4—.014 in. No. 8—.020 in. No. 12—.029 in.

Aluminum wire .032 in. dia.per ft. .01

HOW TO ORDER

1. U. S. stamps will be accepted only in payment of 50c worth of merchandise. We do not accept foreign stamps.

2. Please remit by postal or express money order. Send cash at your own risk.

3. We do not accept C. O. D. orders.

4. On orders of \$2.00 or less add 15c for packing and shipping charges. We pay postage on orders over \$2.00.

5. All foreign orders require an extra service charge of 15c.

6. Print or write your order clearly so that it will receive prompt attention.

NOTE: All lengths of balsa over 24 in. long will be shipped to you cut in half unless otherwise specified. For example: If you order 1/16 in. x 2 in. x 36 in. you will receive 2 sheets of 1/16 in. x 2 in. x 18 in. unless you state in your order that you want it in one piece.

