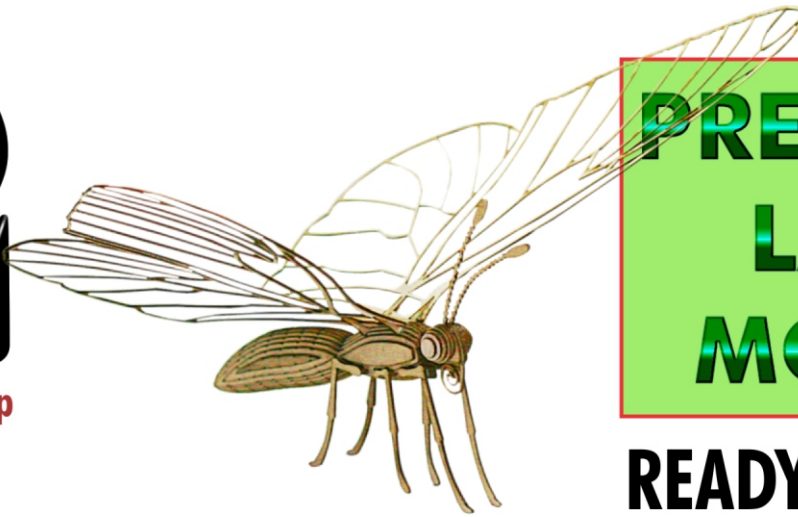




**PRECISION
LASER
MODELS**

READY FOR LASER!

BUTTERFLY PLAN for LASER

This laser cutting plan makes a stunning Butterfly model like no other!

After laser cutting, assemble your model using normal PVA white woodworking glue (like Elmer's), and then either leave it bare wood, or create stunning effects using a variety of acrylic paint colours.

Body length 3" – 76mm

MAKE FOR A GIFT OR TO SELL - kit or finished model

In addition to your laser cutting plan, these are all included FREE:

FREE step-by-step assembly instructions

FREE header artwork for retail poly bag + space for your details

FREE flyer artwork, 3-on-a-sheet, black and white + space for your details

FREE flyer artwork, 3-on-a-sheet, full colour + space for your details

FREE jpeg of finished model

FREE Group photo

FREE WASP mini model to laser cut and make (credit card size plan)

FREE BUTTERFLY mini model to laser cut and make (credit card size plan)

LASER CUTTING AND ENGRAVING GUIDELINES

(This information also appears at the bottom of the laser plan.)

This model has been designed for 0.8mm ($\frac{1}{32}$ ") plywood, which you can buy online and may also be available at your local craft store.

There are many different laser machines on the market, offering a variety of power and speed settings, but here are suggested cutting settings which you can use as a starting point:

35 Watt – power 60; speed 2%; ppi 200. 60 Watt – power 100; speed 18%; ppi 300.

Each part of the insect has either one or two very small tabs to hold it in place on the sheet. This plan is accurate for 0.8mm ($\frac{1}{32}$ ") plywood. Important! Tape or weight your plywood down to keep it flat on the laser bed. Part numbers have been set up as rasters for laser engraving.

Each panel measures 6½" x 8", easily fitting onto letter size plywood.

How to assemble your butterfly

Your butterfly is easy to assemble, but **PLEASE READ THIS FIRST:**

- ☐ Part numbers on this instruction sheet correspond to the numbers on the model;
- ☐ Only press out parts as you need them; use the pick tool to press out small parts;
- ☐ Use only white wood glue, such as Elmers in a squeeze bottle or tube;
- ☐ Don't rush! You'll achieve better results if you don't work too fast;
- ☐ If you need assistance gluing parts together, use masking tape, clothes pegs or small clamps;
- ☐ Some small parts are duplicated, just in case you lose one or break one;
- ☐ Follow the instructions below, making sure to leave the wings and antennae until last.

First, press out the body part marked "centre piece" and one of the two parts numbered "1".

Squeeze out a thin bead of glue onto one side of part #1 and spread the glue out over the surface. Try using your little finger - the glue is not harmful and washes off easily.

Position part #1 onto the centre piece so that it looks even all the way around, and press the two parts together.

Important: use the alignment tool to make sure that the two slots on top of the body are lined up, so you gently push the alignment tool into the slot and take it out again. Repeat this action on each body part that has a slot in the top. The two wing supports will fit snugly into the slots.

Continue with parts #2 to #8 just like

part #1, so that #2 glues to #1, #3 glues to #2, etc. until you have completed one half of the body.

Let the first half of the body dry before starting the second half, which you will make in exactly the same way as before, beginning with part #1. Do use masking tape to secure the two halves together whilst the glue dries, if necessary.

Now you should have the complete body, to which you can start to add other pieces **IN THIS SEQUENCE:**

#9, #10, #11, #12 Eyes: there are four pieces on each side numbered #9 to #12, which you glue - one at a time - onto each part #2, as shown in the diagram.

#13, #14 Wing supports: these fit into the two slots on top of the body (both supports are exactly the same). Try to line them up on the body and with themselves. Squeeze a small amount of glue into each slot first, then press each wing support into the slot as far as it will go.

#15 Proboscis (the funny little curly thing underneath the eyes): this part fits into a small slot at the bottom front of the Centre Piece, below the eyes. Only a very small amount of glue is needed.

Let part #15 dry before doing anything else!

#16, #17, #18 Legs: each of the legs is glued onto the body in the positions shown. Glue the three legs onto one side of the body first, making sure that each leg is aligned correctly on the body; the feet should all line up so that they all touch the ground.

Let the first set of legs dry completely before gluing the legs on the other side.

While holding the model carefully on the body you can now glue in the second wing. Gluing both wings - one after the other - will balance your model perfectly as you stand it up, almost completed, for the first time.

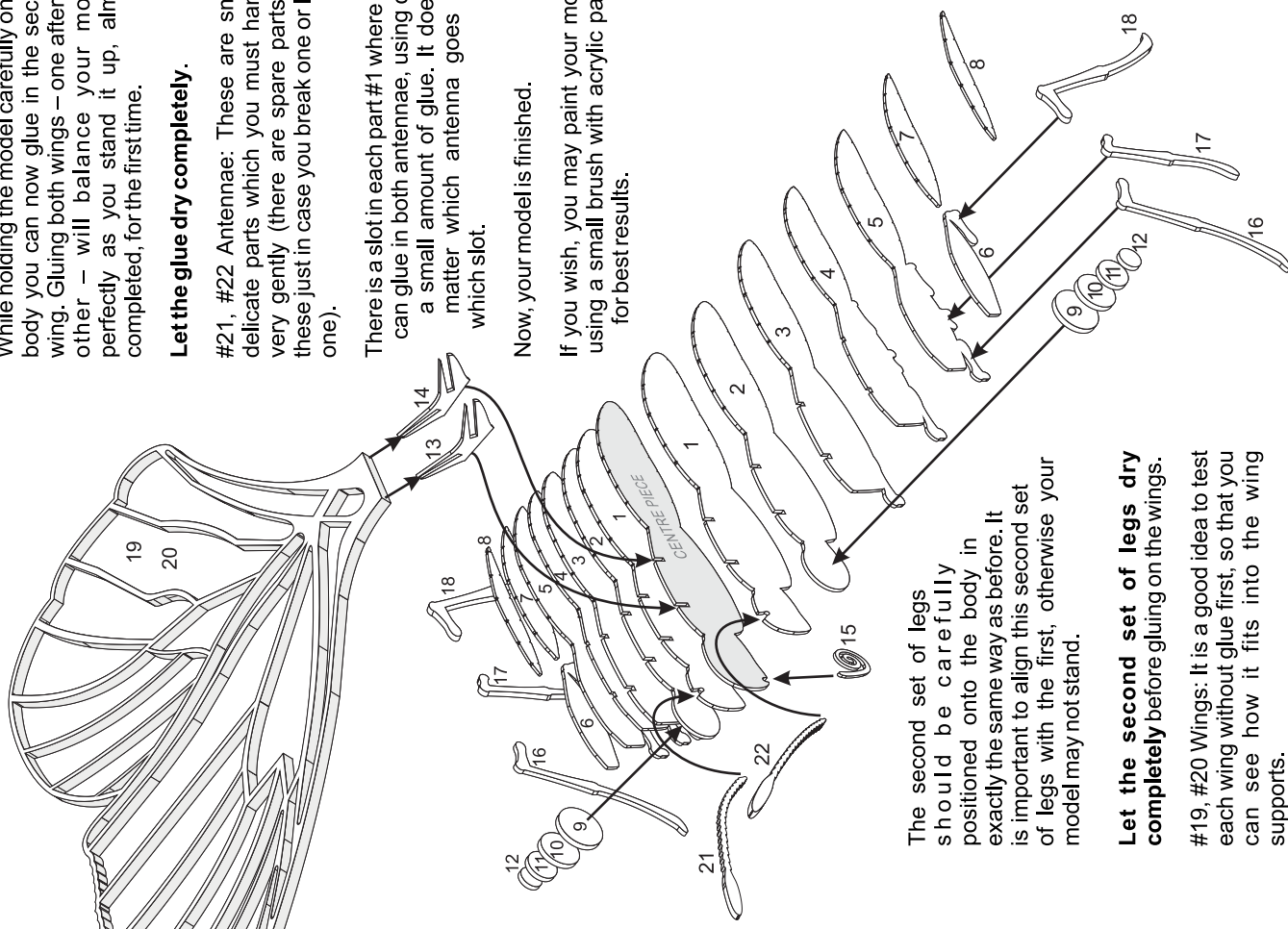
Let the glue dry completely.

#21, #22 Antennae: These are small, delicate parts which you must handle very gently (there are spare parts for these just in case you break one or lose one).

There is a slot in each part #1 where you can glue in both antennae, using only a small amount of glue. It doesn't matter which antenna goes into which slot.

Now, your model is finished.

If you wish, you may paint your model using a small brush with acrylic paints for best results.



The second set of legs should be carefully positioned onto the body in exactly the same way as before. It is important to align this second set of legs with the first, otherwise your model may not stand.

Let the second set of legs dry completely before gluing on the wings.

#19, #20 Wings: It is a good idea to test each wing without glue first, so that you can see how it fits into the wing supports.

When you are happy with how to position each wing, squeeze a little glue into the two slots on one side of the wing supports, and then slide the wing in gently.

This Header
Poly Bag
FOR "KIT"

FOLD



Precision laser-cut model kit, made from 0.8mm plywood for added strength.

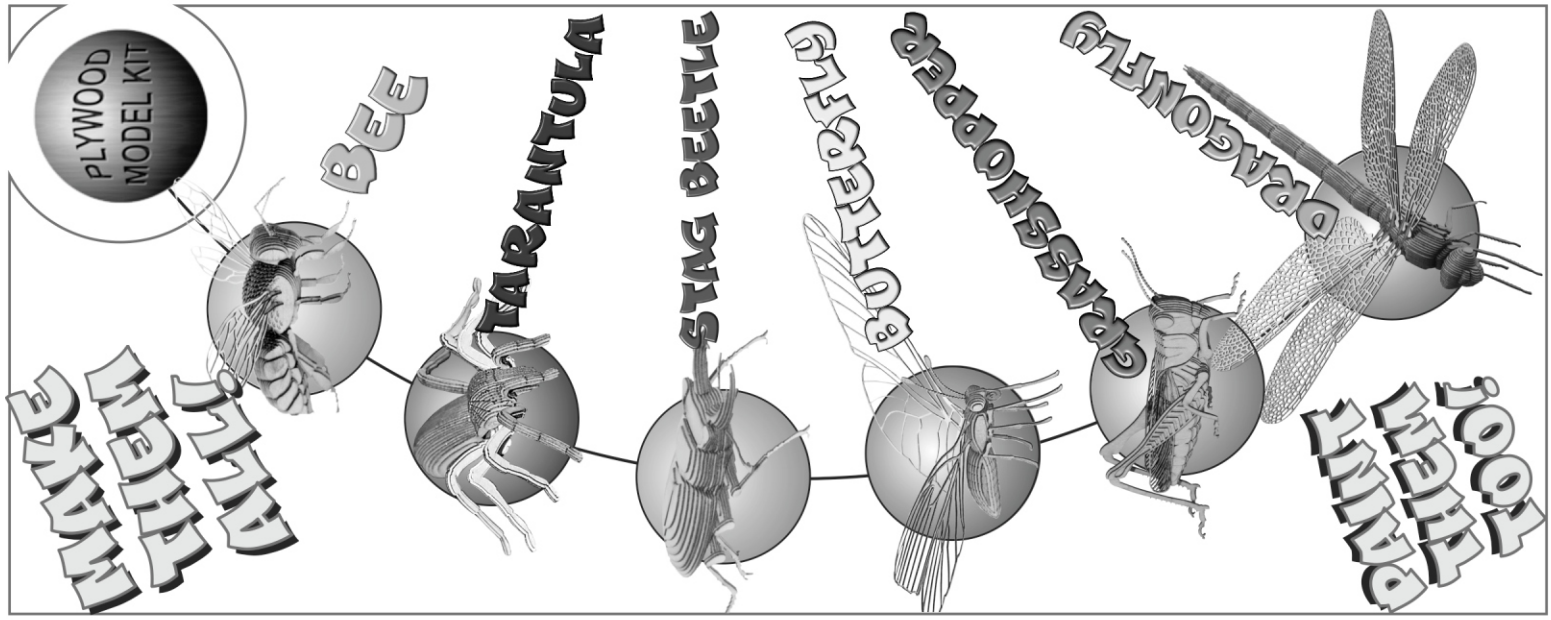
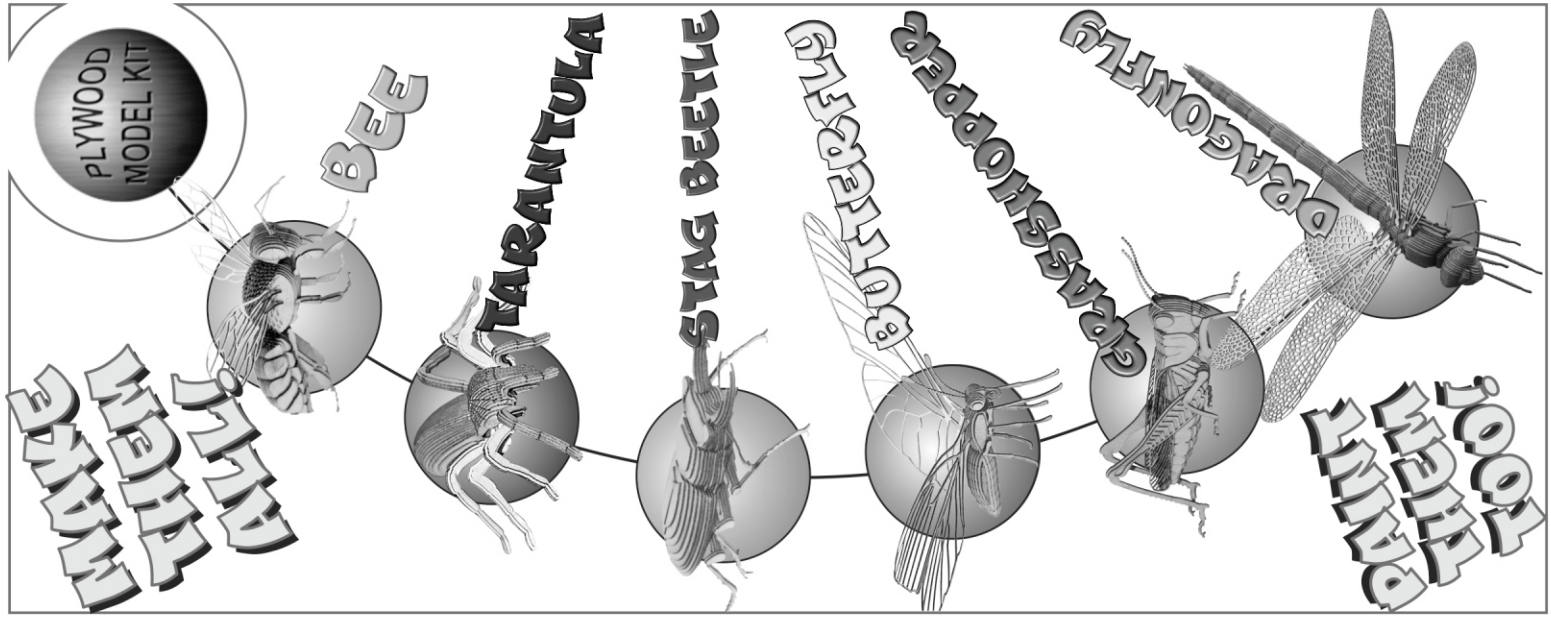
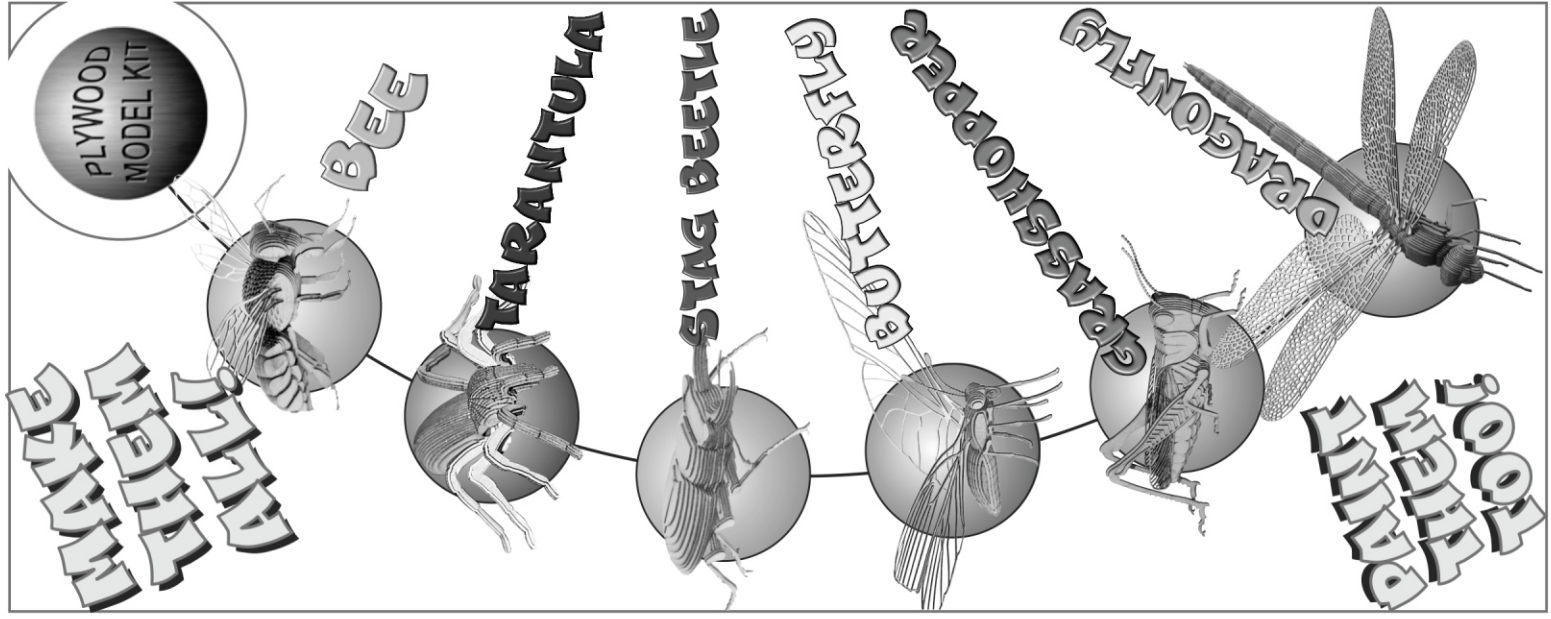
Easy to follow instructions included. No woodworking tools required. Wood glue not included.

Design by pm design shop, British Columbia. © pm design shop. Manufactured by



Cut along dotted lines

Your name here



Unique model kits

Our precision-made plywood model kits are the only ones of their kind, and have been produced with simplicity of construction in mind.

Clear instructions

Each kit contains a sheet of clear, easy to follow instructions with an exploded view of the parts as they should be assembled. In some cases, there are various delicate parts - such as legs - for which we have included extras, just in case.

Every part on the plywood sheet has a number which corresponds to that part on the instruction sheet.

Wood glue

You will need a small tube of wood glue, such as Elmer's - available at your local craft or hardware store, but nothing more than that and a little patience in order to complete each model!

When you have finished making a model, and the glue is completely dry, you may wish to paint or varnish it.

Painting

For painting, we recommend using acrylic paints, which dry fairly quickly, and which are available in many exciting colors how about a metallic colour for the dragonfly wings?

Varnishing

For varnishing, choose a clear or color varnish that you can apply directly to bare wood with a small, soft brush. Applied thinly, these varnishes will also dry quite quickly.

Age group

Our models can be constructed by almost anybody of any age, but we strongly recommend adult assistance for young builders who may not be used to handling small parts as contained in our kits. *Please note:* these display models will not withstand the rigors of toy play!

Happy Modeling!

Manufactured by:

Unique model kits

Our precision-made plywood model kits are the only ones of their kind, and have been produced with simplicity of construction in mind.

Clear instructions

Each kit contains a sheet of clear, easy to follow instructions with an exploded view of the parts as they should be assembled. In some cases, there are various delicate parts - such as legs - for which we have included extras, just in case.

Every part on the plywood sheet has a number which corresponds to that part on the instruction sheet.

Wood glue

You will need a small tube of wood glue, such as Elmer's - available at your local craft or hardware store, but nothing more than that and a little patience in order to complete each model!

When you have finished making a model, and the glue is completely dry, you may wish to paint or varnish it.

Painting

For painting, we recommend using acrylic paints, which dry fairly quickly, and which are available in many exciting colors how about a metallic colour for the dragonfly wings?

Varnishing

For varnishing, choose a clear or color varnish that you can apply directly to bare wood with a small, soft brush. Applied thinly, these varnishes will also dry quite quickly.

Age group

Our models can be constructed by almost anybody of any age, but we strongly recommend adult assistance for young builders who may not be used to handling small parts as contained in our kits. *Please note:* these display models will not withstand the rigors of toy play!

Happy Modeling!

Manufactured by:

Unique model kits

Our precision-made plywood model kits are the only ones of their kind, and have been produced with simplicity of construction in mind.

Clear instructions

Each kit contains a sheet of clear, easy to follow instructions with an exploded view of the parts as they should be assembled. In some cases, there are various delicate parts - such as legs - for which we have included extras, just in case.

Every part on the plywood sheet has a number which corresponds to that part on the instruction sheet.

Wood glue

You will need a small tube of wood glue, such as Elmer's - available at your local craft or hardware store, but nothing more than that and a little patience in order to complete each model!

When you have finished making a model, and the glue is completely dry, you may wish to paint or varnish it.

Painting

For painting, we recommend using acrylic paints, which dry fairly quickly, and which are available in many exciting colors how about a metallic colour for the dragonfly wings?

Varnishing

For varnishing, choose a clear or color varnish that you can apply directly to bare wood with a small, soft brush. Applied thinly, these varnishes will also dry quite quickly.

Age group

Our models can be constructed by almost anybody of any age, but we strongly recommend adult assistance for young builders who may not be used to handling small parts as contained in our kits. *Please note:* these display models will not withstand the rigors of toy play!

Happy Modeling!

Manufactured by:

MAKE THEM!

BEE

TARANTULA

STAG BEETLE

BUTTERFLY

GRASSHOPPER

DRAGONFLY

TOO MANY TO MAKE!

PLYWOOD MODEL KIT

The diagram illustrates a sequence of insect models connected by a line. The insects, from left to right, are: a Bee, a Tarantula, a Stag Beetle, a Butterfly, a Grasshopper, and a Dragonfly. Each insect is shown on a circular base. The labels for each insect are written in large, colorful, stylized letters above them. The sequence starts with 'MAKE THEM!' in large, bold, yellow letters on the left. It ends with 'TOO MANY TO MAKE!' in large, bold, yellow letters on the right. A small circular icon in the top right corner contains the text 'PLYWOOD MODEL KIT'.

MAKE THEM!

BEE

TARANTULA

STAG BEETLE

BUTTERFLY

GRASSHOPPER

DRAGONFLY

TOO MANY TO MAKE!

PLYWOOD MODEL KIT

This diagram is identical to the one above, showing a sequence of insect models connected by a line. The insects, from left to right, are: a Bee, a Tarantula, a Stag Beetle, a Butterfly, a Grasshopper, and a Dragonfly. Each insect is shown on a circular base. The labels for each insect are written in large, colorful, stylized letters above them. The sequence starts with 'MAKE THEM!' in large, bold, yellow letters on the left. It ends with 'TOO MANY TO MAKE!' in large, bold, yellow letters on the right. A small circular icon in the top right corner contains the text 'PLYWOOD MODEL KIT'.

MAKE THEM!

BEE

TARANTULA

STAG BEETLE

BUTTERFLY

GRASSHOPPER

DRAGONFLY

TOO MANY TO MAKE!

PLYWOOD MODEL KIT

This diagram is identical to the ones above, showing a sequence of insect models connected by a line. The insects, from left to right, are: a Bee, a Tarantula, a Stag Beetle, a Butterfly, a Grasshopper, and a Dragonfly. Each insect is shown on a circular base. The labels for each insect are written in large, colorful, stylized letters above them. The sequence starts with 'MAKE THEM!' in large, bold, yellow letters on the left. It ends with 'TOO MANY TO MAKE!' in large, bold, yellow letters on the right. A small circular icon in the top right corner contains the text 'PLYWOOD MODEL KIT'.

Unique model kits

Our precision-made plywood model kits are the only ones of their kind, and have been produced with simplicity of construction in mind.

Clear instructions

Each kit contains a sheet of clear, easy to follow instructions with an exploded view of the parts as they should be assembled. In some cases, there are various delicate parts - such as legs - for which we have included extras, just in case.

Every part on the plywood sheet has a number which corresponds to that part on the instruction sheet.

Wood glue

You will need a small tube of wood glue, such as Elmer's - available at your local craft or hardware store, but nothing more than that and a little patience in order to complete each model!

When you have finished making a model, and the glue is completely dry, you may wish to paint or varnish it.

Painting

For painting, we recommend using acrylic paints, which dry fairly quickly, and which are available in many exciting colors how about a metallic colour for the dragonfly wings?

Varnishing

For varnishing, choose a clear or color varnish that you can apply directly to bare wood with a small, soft brush. Applied thinly, these varnishes will also dry quite quickly.

Age group

Our models can be constructed by almost anybody of any age, but we strongly recommend adult assistance for young builders who may not be used to handling small parts as contained in our kits. *Please note:* these display models will not withstand the rigors of toy play!

Happy Modeling!

Manufactured by:

Unique model kits

Our precision-made plywood model kits are the only ones of their kind, and have been produced with simplicity of construction in mind.

Clear instructions

Each kit contains a sheet of clear, easy to follow instructions with an exploded view of the parts as they should be assembled. In some cases, there are various delicate parts - such as legs - for which we have included extras, just in case.

Every part on the plywood sheet has a number which corresponds to that part on the instruction sheet.

Wood glue

You will need a small tube of wood glue, such as Elmer's - available at your local craft or hardware store, but nothing more than that and a little patience in order to complete each model!

When you have finished making a model, and the glue is completely dry, you may wish to paint or varnish it.

Painting

For painting, we recommend using acrylic paints, which dry fairly quickly, and which are available in many exciting colors how about a metallic colour for the dragonfly wings?

Varnishing

For varnishing, choose a clear or color varnish that you can apply directly to bare wood with a small, soft brush. Applied thinly, these varnishes will also dry quite quickly.

Age group

Our models can be constructed by almost anybody of any age, but we strongly recommend adult assistance for young builders who may not be used to handling small parts as contained in our kits. *Please note:* these display models will not withstand the rigors of toy play!

Happy Modeling!

Manufactured by:

Unique model kits

Our precision-made plywood model kits are the only ones of their kind, and have been produced with simplicity of construction in mind.

Clear instructions

Each kit contains a sheet of clear, easy to follow instructions with an exploded view of the parts as they should be assembled. In some cases, there are various delicate parts - such as legs - for which we have included extras, just in case.

Every part on the plywood sheet has a number which corresponds to that part on the instruction sheet.

Wood glue

You will need a small tube of wood glue, such as Elmer's - available at your local craft or hardware store, but nothing more than that and a little patience in order to complete each model!

When you have finished making a model, and the glue is completely dry, you may wish to paint or varnish it.

Painting

For painting, we recommend using acrylic paints, which dry fairly quickly, and which are available in many exciting colors how about a metallic colour for the dragonfly wings?

Varnishing

For varnishing, choose a clear or color varnish that you can apply directly to bare wood with a small, soft brush. Applied thinly, these varnishes will also dry quite quickly.

Age group

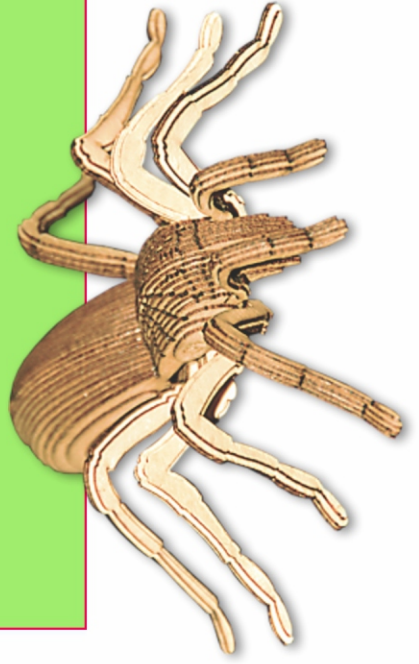
Our models can be constructed by almost anybody of any age, but we strongly recommend adult assistance for young builders who may not be used to handling small parts as contained in our kits. *Please note:* these display models will not withstand the rigors of toy play!

Happy Modeling!

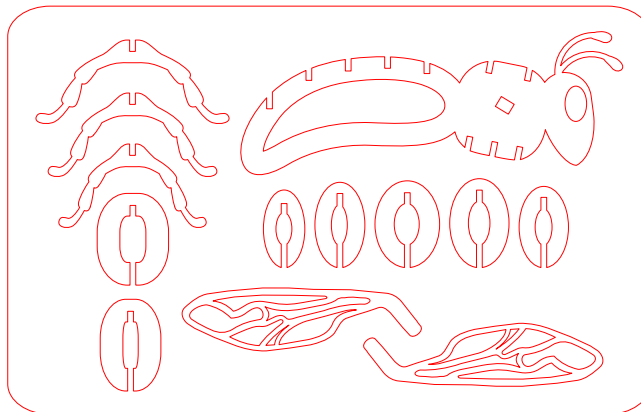
Manufactured by:



PRECISION LASER MODELS



WASP mini model



BUTTERFLY mini model

