Crystal Rocks

25mm - 32mm scale
card model

Parts count: **39**
Material: **cardstock A4, 200g/m²**

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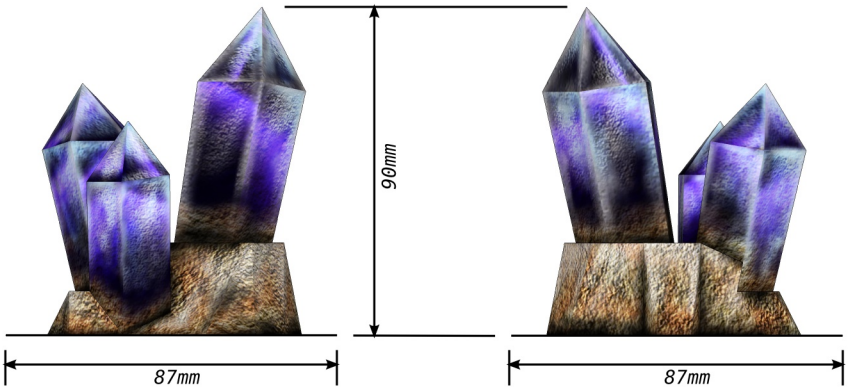
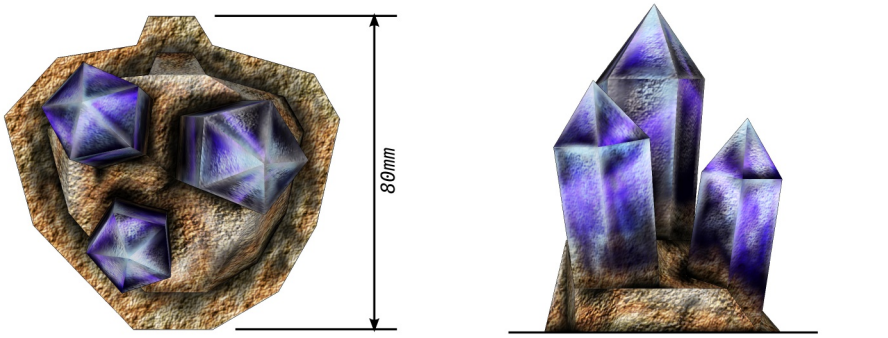
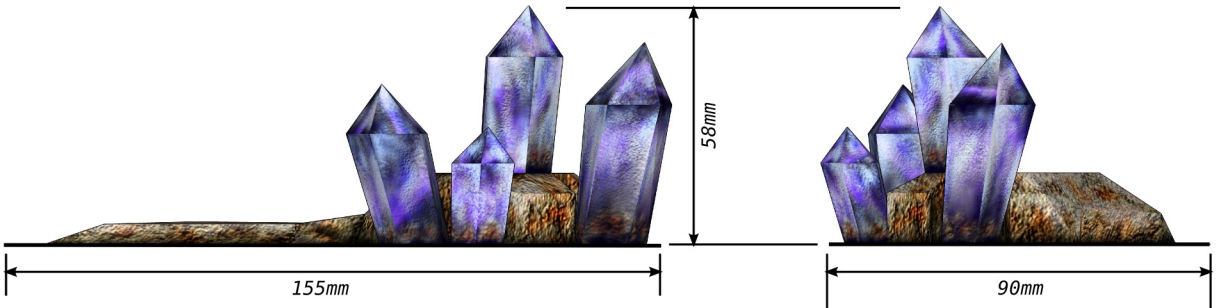
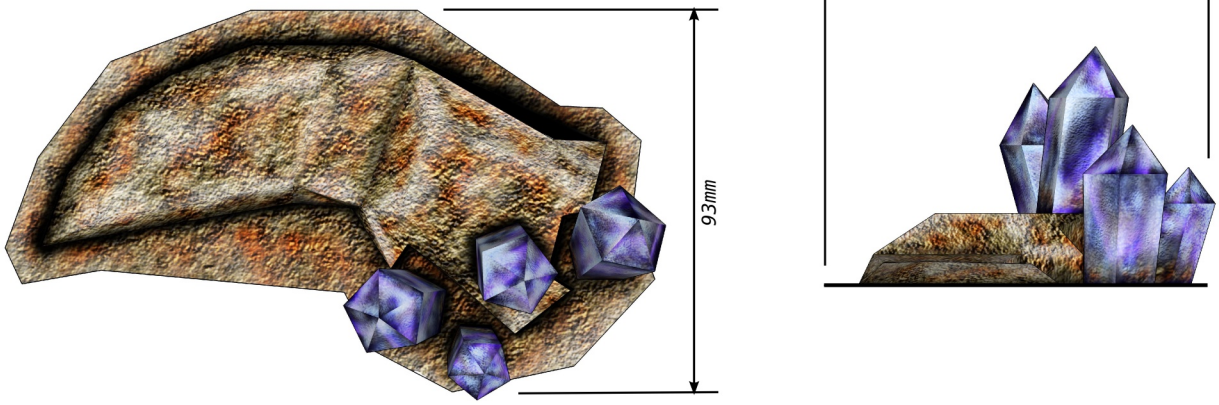








Crystal Rocks

There are two models of rocks with large crystals, with bases, miniatures scale for 28-32mm, you can combine them with other sites cardboard elements of fantasy, science fiction and modern. The models are designed for battle games, rpg. One can function as a permanent barrier, one has a difficult terrain over which the unit can move infantry, and both vehicles. Models can be set up in multiple configurations. The models are stable, durable enough for even the metal miniatures. Models can be assembled fairly quickly even with little practice. To build the model need only 6 sheets of cardboard.

Printing

Best model sheets printed on cardboard smooth, matte with a weight of 200g/m^2, which is about 0.2mm thick. You can print on a different carton, for example, 160 - 220g/m^2, but it should be noted that the model was designed for carton weighing 200g/m^2 due to the exact fit parts. In very simple models, the thickness and stiffness of carton it may not be relevant. A good time to try on the selected carton.

The model can be printed inkjet printer or a laser. To get the best color print, preferably printing, use the specified sRGB color profile. Preferably carried out some tests with different profiles ICM. Most printer manufacturers provide their own color profiles that are associated with the printer, very well cope with the print rgb. Also, the computer display should be calibrated.

It must be remembered that the printing ink to wait some time to ink was dry. It's easy to blur the fresh print hand. You have to have your hands clean and dry.

You can instantly print the entire document, but it is better to print the sheets that are currently needed. If built part fails, you can always print more sheets required.

The model is designed for printing on A4 sheets. Note to turn off the option in the printer driver, print magnification. You can print on a different format, U.S. letter, but then the printer driver, you need to determine the magnification to 100%. Model can be reduced by setting a smaller scale print.

Tools and materials

simplest are sufficient tools and materials:

Printer - inkjet or laser. The printer must enable printing on the carton. The printer has a straight paper path as planar (because the carton is rigid), or printer manual clearly states this. Otherwise, printing may not be possible, and even the printer may be damaged.

Carton - A4 carton, white, matt, smooth, in check with a weight of 200g/m^2.

Ruler - the best is made of steel, a length of about 30cm (1ft).

Needle - a thickness of about 1 mm, not sharp. Set in a modeling knife handle so that it protrudes about 1cm. Or written all the contribution of fine-tipped ballpoint pen.

Modeling knife - it can be a specialized knife with replaceable blades Olfa AK-3, or scalpel no. 11 with a suitable lampholder, knife blade segment with a width of 9mm.

Cutting mat - the best is specialized mat (Olfa) with a minimum size A4 (the higher the better). Alternatively, you can use thick, heavy card with a minimum thickness of 2mm. Carefully use carton instead of the proper mat, as carton cut easily. Mat facilitates precise cutting.

Glue - Glue model, you can use glue "white" Vicol (listed under different brand names, often used in carpentry), in a variation of quick drying. The glue "white" can be used toothpicks or other stick. The bonding of large surfaces use glue stick, for example UHU stic or UHU twist & glue. Which glue would be best suited for this is, it's best to try. This glue can not soak too much water carton because plane of will be glued on tight undulate. You can also use glue based on an organic solvent.

Markers - used to retouch fold and the edge of the cardboard. Best suited markers brushes (for example, Faber-Castell Pitt artist pen), occurring in a number of repetitive colors, allowing paint a larger area, the edge of the carton and both fine lines.

Assembling the model

Bending

After printing sheet can be divided into smaller individual components, which can be easily manipulated. Before you cut, you have to prepare all the folds (dashed lines and folds). Drag fold lines (with slight pressure) needle with a ruler, on the print side until a recess (no cuts, damage to the surface of the printed carton) that will allow easy bending of the wall. To catch skill, you can try this technique on a scrap piece of cardboard. Bending lines can also be formed using a checked out ballpoint pen, a thin (up to 0.7 mm) tip. Bends can see a piece of cardboard guided parallel to the light. In that light bends becomes visibly darker. So you can check if all the lines are prepared bends.

Another method is to fold line marking the end of a thin needle (punching carton), followed by the formation of the fold (above given method) on the reverse side of the printed sheet. Thoroughly bends facilitate the submission of the model.The individual components have to cut as

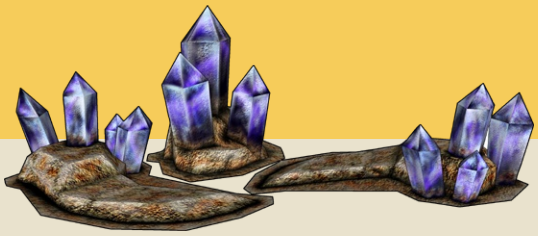
print lines with a ruler. If you have a skilled at cutting, you can cut without a ruler, which greatly speeds up the work. All edges of the part to be cut along the edge print, do not cut the part of the print, and do not leave carton printing. The blade modeling with a focus pull no more that will cut cardboard. More emphasis could cut a mat or even break a blade. Elements glued with a few layers of carton, preferably cut by cutting several times with slight pressure. In any case, you have to remember to always carry a knife blade vertically.

After cutting the parts can be folded without sticking check fit together and reflect on the order of assembly (because after applying the adhesive for fold will be little time to think). Now you can retouch fold and white (edge cut carton) pieces of carton which should be covered in print. Sometimes the piece of fold may extend, it must be anticipated and paint over the marker. Take care that the color marker pen to its color was the most suitable for offset printing. Retouched with care so as not to have to paint the printed surface. The model can be done without retouching (standard), but it is nicer retouched.

Retouching

The model can be glued without retouching. In a well-made model, clear traces of carton are hardly visible, provided that the model will be seen at a distance of 30cm (1ft). Before gluing the model, its parts can be retouched. Touches up the the cut edges of the cardboard and in contact with them folds. When you cut and molded parts (before gluing) should retouched the places where you can see a white carton. The retouch is best to use markers pędzelkowych whose ink does not penetrate across the carton, and does not spill on it. Color markers to choose the most similar color to the retouched portion of the model. A good time to test the used cardboard.

NOTE: Blades modeling and needles can be dangerous, they can really hurt themselves. Please use them carefully. Whenever you use the blade should be secure adequate guard and stored out of reach of children. Cut and paste is only suitable base that protects furniture from damage. Before opening the container with adhesive, thoroughly familiar with the the manual of it and follow the rules. Before bonding, check the label or accompanying instructions glue whether it is safe for us. Carefully use a glue that does not stain your clothes and furniture. Hand soiled not touch the glue and close to the eyes and mouth. After bonding, thoroughly wash your hands, because the glue can be harmful to your health. During the gluing ventilate the room, because vapors can be harmful to your health. Glues after use should be stored out of reach of children.

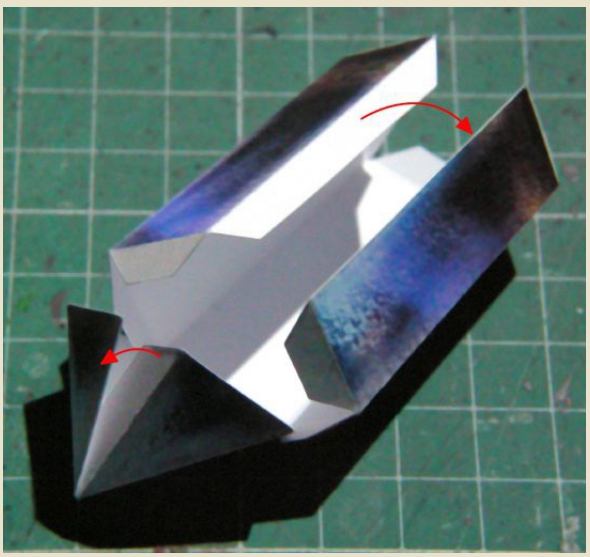


Gluing

Before gluing preferably model mounted on a "dryly", check whether the parts fit together. Several times to check the positioning element to element glue it some movement. If a bottle of white glue does not have a dispenser, a few drops glue (glue dries quickly) impose on the cardboard box, from where to download it with a toothpick. The fold a small amount glue applied so as not to stain the printed surface. Glued joints pressed against a motion, and hold a few seconds. Excess glue that can be squeezed out (before harden), gently remove your finger along the seam. Even for a few minutes, in an emergency, glued together parts can be gently disconnect to glue them correctly.

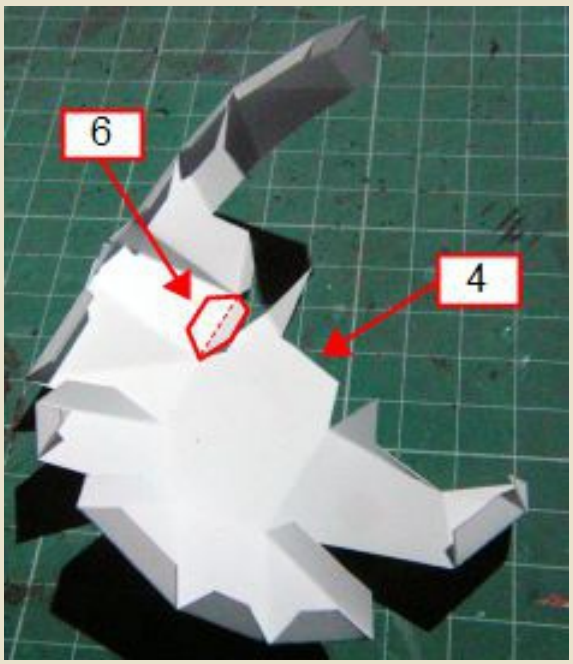
The recommended way of making

Glueing the first model is very easy when using the previously provided guidance. First, make crystals, as their performance is the same. Part 1 and 2 and 3 cut, bend all the walls, forming a solid. Glue roller crystal, then the crystal cone. Glue roller cone crystal.Glueing rocks to start with the 4 and 6 After cutting the parts, hi 6 be attached to parts 4 in the space

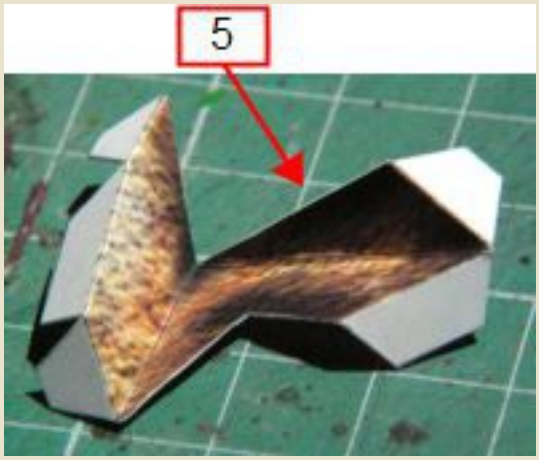


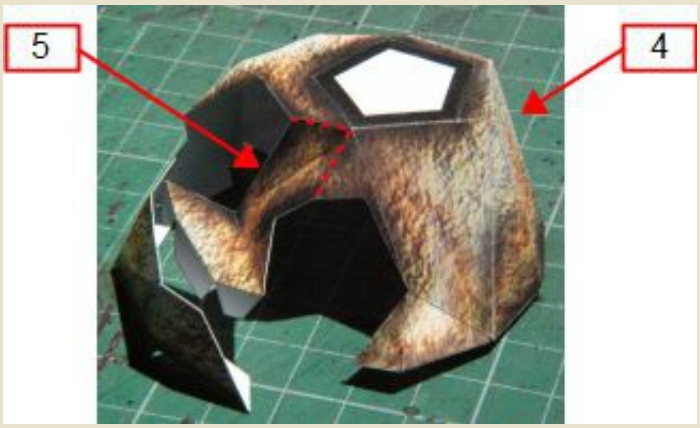
labeled red box.

The whole form. Then cut part 5 and the formation

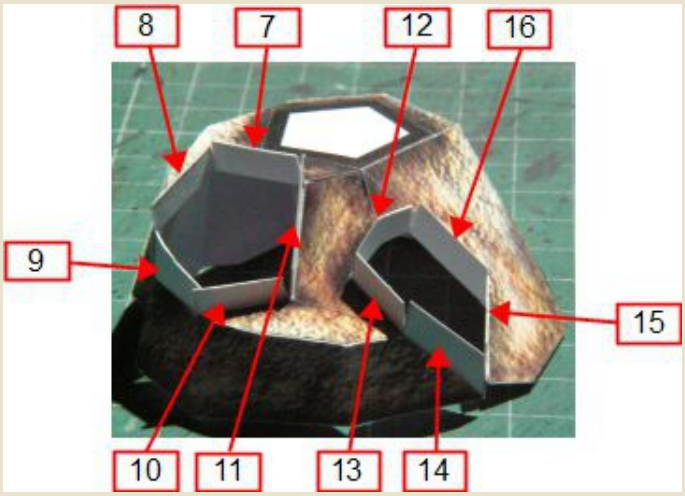


of glue it to some 4.Teraz be taped side walls of rock. Fold all the rock to mounting fold base.

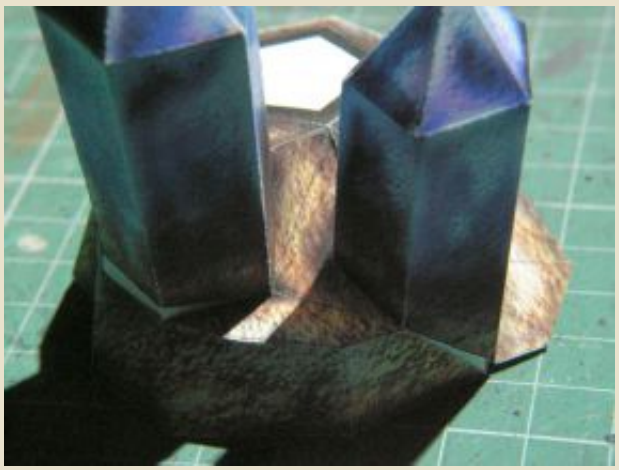




Glue the fold to mounting rock crystals. Fold 7, 8, 9, 10, 11, 12, 13, 14, 15, 16 affixed as shown in the drawing. The letter "w" means a place on fold glue for part 4.



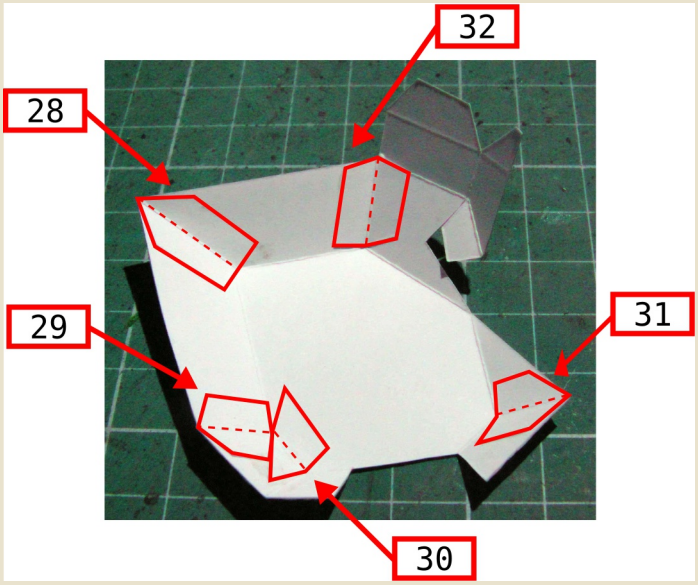
Gluing crystals begin to rock crystal 2, at the end of the third crystal glue Impose glue to the inside of the crystal, then the crystal onto the fold, pressing the edges of the crystal to the four that no gaps.



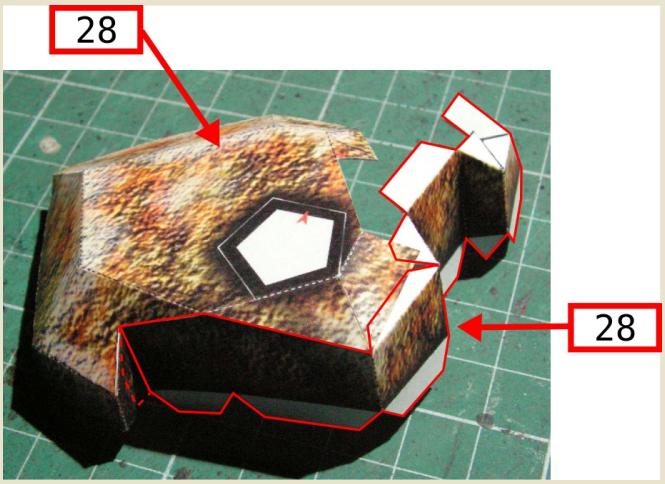
The final step is to prepare a base and sticking to it rocks. Cut and bend Part 17. On the inner side (both sides) Impose glue stick (use a glue that does not warp carton, do not soak it with water), then put in the middle of pre-cut, slightly larger sheet of cardboard. A stand is provided with three layers of carton 200g/m^2 (thickness 0.6 mm). The whole placeexactly push. Leave to dry pressed flat, heavy object that the base is flat. When dry, glue base rock.Crystals of the second model (parts 19, 20, 21,

22) are very easy to be bonded, and make it the same as in the first model.

The block of rock from the start of the cut-outs 27 and sticking to the fold 28, 29, 30, 31, 32. Folds are designed to exactly fit your block. Then glue the part.



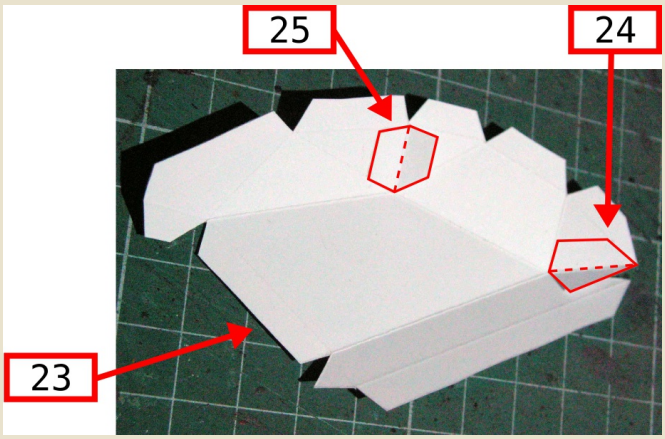
Section 33 (folds can be bent more, it will make it easier the imposition the this glue and glue) attached to parts 27, starting from the area shown in the illustration. The loose portion 33 affixed with fold 34.



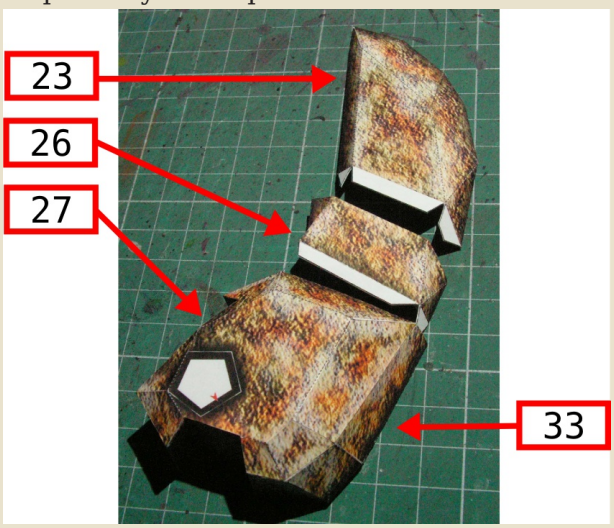
Then, fold glue 24 and 25 to 23 parts Then glue this item. Fold fixing this part of the base, should be very carefully bend, especially in the sharp summit of this part, because otherwise will stand out from the base.

Part 26 form and stick to the 27 The easiest way is to first glue the fold center section 26, and then the fold side. Then the so-sized element rocks, stick Part 23, starting from the median fold glue, then side. Properly shaped and glued together rock element is evenly adhere to the base.

This prepared, part of the rock is a little stiff. To

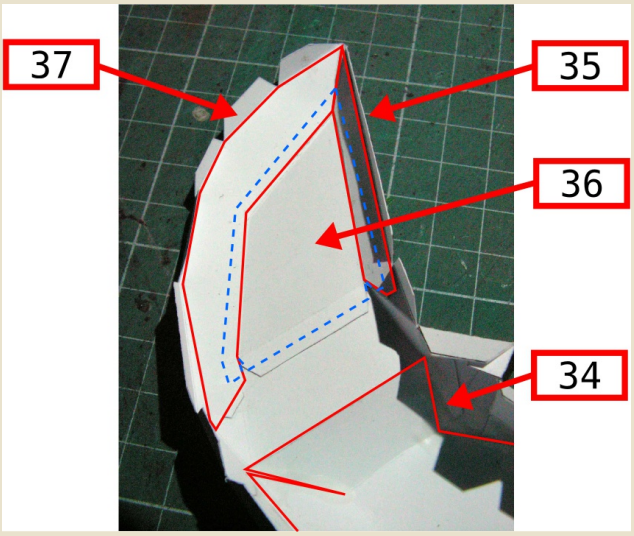


stiffen it, you need to paste into the body of the 34, 35, 36 and 37. Paste the first part of 37, trying to get a good contacts the rock element. Glue ("white", Vicol or other) better apply more, because the excess seal the glued parts, and after drying it stiffen cardboard. A portion of 35 and 36 Section 36 should partially cover parts 35 and 37 At the end of



the stick portion 34.

The whole thing can be very heavy charge that did not undergo deformation and allow to dry completely. After drying, the model will be so strong that it will not be deformed even under the weight of some heavy metal figurines.



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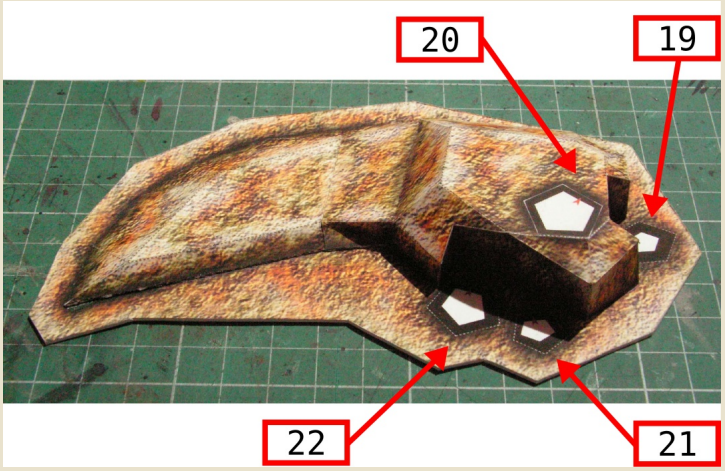
Execution begins with base cut portions 38 and 39 Part 39 is an extra layer of cardboard, through which, a base will be stiff. The glue is best to use an adhesive UHUstic that does not cause excessive deformation of cardboard (preferably, before the actual bonding test). First, apply the adhesive on one inner side of 38, the insert part 39 It is important that the cardboard apply a uniform layer of adhesive. This will prevent the tendency to deform the base. Then part 39 also apply the adhesive and the whole press. Leave to dry for a period of time, under pressure.

Then you need to glue a lump of rock to the base, and glue crystals, as shown in the illustration.



The miniature is a company (C) Wizards and is presented for comparison of scale.