

# FALKE

(Automatic translation from Czech using Google Translate)

The FALKE fishing cutter model is suitable for advanced modelers. It's recommended for the drive MIG 400 / 7.2V electric motor with 3: 1 gearbox. Powered by NiCd or NiMh battery 7.2V with a minimum capacity of 1700 mAh. A two-channel RC set, bidirectional, is sufficient for control regulator 16A.

Before you start building the model, familiarize yourself with all the parts of the kit according to the parts list to build only start when you have a good understanding of the plan and construction process.

You will need the following tools and aids for the construction: a knife, scissors, a fine file, a set of needle files, clamps, splitting, flat and round pliers, small brush, drill, set of drills (we recommend drills diameter of 1; 2; 3; 4; 5; 6; 6.5 mm), plywood saw, spray gun, sandpaper 100, 350, 800, 1000. Glue for plastic models, secondary and epoxy glue, glass cloth 80-120g / m<sup>2</sup>

Cut the individual parts out of the plastic plates with the sharp tip of a knife with a reserve for machining. Also cut out plywood parts with a reserve for machining. Clean the individual parts with a file.

For gluing plastic parts, we recommend glue for plastic models, eg Contact and pro gluing wooden parts use disperse or instant glue. Apply the glue in a thin layer, make sure that it does not get out of the joint. Always allow the glued parts to dry thoroughly.

For painting, use paints for plastic models such as RC Styro or Humbrol. Expose the built model in areas with a temperature lower than 50° C. At higher temperatures (eg, in the summer behind the car window) the possibility of permanent deformation of some plastic parts of the model.

## Construction procedure:

Cut out the fronts of the base 1 from plywood and glue the base with spruce beams 2 so that the fuselage sits in the cutout. The size of beams 2 is 8 x 8 x 250 mm. The spacing of both faces of the base is about 190 mm. Carry out another construction on a pedestal.

Glue the left and right halves of the steering tunnel 4. Rudder shaft 5 (2.5 mm wire) bend according to the drawing so that the rudder fin cannot rotate on the shaft. Between left and right glue half of the rudder fin 6 to the rudder shaft 5 and glue the fin. Interior wheelhouse

Fill the fins with pieces of plastic before gluing them so that the fin does not move on the shaft. To the hull 3 drill a hole for the steering tunnel. Glue the rudder tunnel to the hull and secure it with reinforcement 7. Tunnel the rudder must be glued so that the rudder is in the axis of the hull. After the glue has dried, insert it into the tunnel slide the rudder and slide the silicone on its shaft, the tube and then the rudder lever 8. Form the rod from the wire 9 and slide the fork terminals with pins 10 onto its ends. Attach the fork terminals to the servo levers and rudder.

Drill a hole in the fuselage for the shaft of the propeller 1 1. Screw the propeller 12 to the shaft 11 and the unit insert into the hull. Drill a hole for the gearbox in the rib 14. Electric motor with gearbox screw to the rib 14. Slide the flexible coupling 13 onto the propeller shaft and the electric motor shaft.

Glue the rib 14, together with the engine and gearbox, into the hull so that the shaft of the propeller and the gearboxes were in line. Secure the rib against breaking with reinforcements 15. Seal the propeller shaft in the hernia with epoxy glue.

Glue the battery bed for the electric motor 18 and the front rib 16 to the fuselage into the fuselage ballast ballast B1 (lead shot weighing 700 g).

Cut the servo bed parts 20 and the receiver and controller bed parts 17 from the plastic plate. Both glue the parts to the fuselage. After the glue has dried, screw 20 servos to the servo bed. Glue the rib into the hull 19 to secure the rear ballast load 82 (lead shots weighing 500 g)

Seal the ballast load with epoxy glue so that it cannot spontaneously in the hull of the ship to move.

Glue the deck from spruce beams 22 (10 x 2 x 750 mm and 10 x 2 x 250). The shape of the deck is on attached drawing. We recommend the following procedure. Stick the paper template (drawing) on solid pad and then stretch the plastic wrap over it. Then glue the wooden deck directly to this foil. Glue the wooden beams so that when gluing you create internal holes in the deck for the cabin, storage and steering lever. After gluing the wooden deck, use sandpaper to sand it to the correct one shape and smooth surface. We recommend reinforcing the deck with a layer of laminate from the bottom. Use epoxy glue and glass cloth. If you do not have the possibility of lamination, stick from the bottom according to the drawing of the reinforcement 22 (spruce beams 4 x 4 x 500 mm).

Glue the beams to the holes in the deck 2x10 mm so that they form a shoulder and it was possible to pull the parts of the cabin, storage cover and steering lever cover over them. Apply impregnating coating to the deck and then paint synthetic varnish. If you have not laminated the underside of the deck, paint the varnish and paint as well underside of the deck.

Holes for draining water from the deck must be cut into the side of the hull in the middle of the hull (marked OTV in the drawing). Place the deck on the hull, draw a line on the hull with a pencil between point a through the deck and into the sides of the hull on each side cut a hole 20 x 5 mni.

Glue the deck to the hull. Use thin instant glue. Proper deployment of the deck secure with clamps. Reinforce the flank side board using 10 x 2 x 750 mm rails. Total you will need 6 pieces of rails. 3 pcs on the right side, 3 pcs on the left side. Use the rails 10 on the rear side x 2x 250 mm. Glue the individual strips to the plastic board with a thin instant glue. Leaves attach to the hull with clamps. Before gluing the bottom bar, draw where it is on the bar a hole for water to drain from the deck and cut this hole in the bar. Glue the left and right halves together glue the front ligament 21 part into the space in the hull of the bow and to the deck. After gluing all the ligament bar these sand the slats with sandpaper, paint the varnish and varnish with synthetic varnish. Glue to the bow vlnolam 25. Paint the hull and stick a sticker with the model name on the bow.

Cut the side reinforcements 24 out of the plywood. Drill 2 mm holes in these reinforcements for the ropes to anchor the masts. Paint the reinforcements with varnish, paint and glue to the deck and the side of the hull. To the hips glue the abrasion strips 23 (spruce beam 3 x 3 x 750 mm) to the fuselage. Paint the varnish before gluing the strip and paint with synthetic varnish.

Glue the drums of the winch 27 and glue them to the winch housing 26. Wrap a rope of length min. 50 cm. Glue the left and right halves of the fans 28 and the anchor winch 31. To the anchor winch wind the rope and tie the other end to the anchor 29. Cut out the sides of the entrance into the plywood below deck 33A, door 34, roof 33B and auxiliary parts 33C for gluing the roof 338. Glue the parts together together. Paint the entrance to the lower deck with varnish and paint. Glue window 46, handle to the finished part and hinges 48. Handles and hinges are made of 1 mm wire. Glue the part to the board.

Cut parts of the sides of the warehouse cover 35A and 35 B from the plywood and parts of the sides of the steering lever cover 57A and 57B. Glue the parts together on the deck so that you can place these parts well on the mounting board. Paint the plywood parts with varnish and varnish. Cut the roofs of the covers from the plastic plate warehouse 35C and steering lever 57C. Apply a color finish to these parts a then glue to the side panels 35A, B and 57A, B.

Glue the rear wall of the cabin 37, the rear face of the cabin 38, the reinforcement of the lower roof between the sides of the cabin 36 39 and reinforcements of the front wall of the cabin 40. Perform gluing again on board the model. To the front wall 41 glue the stiffeners 40. Pull the parts together using the clamps. After the glue has dried, glue the front wall 41 to the cabin. Glue the side door 44 and the rear door 45 to the cabin. Paint the cabin semi-finished product with

varnish and paint. Cut out the parts of roofs 42 and 43 from the plastic plates and paint them. To the whole glue the upper roof 42 and the lower roof 43. From the wire 48 (ø1 mm) form the door handles and hinges, hooks for attaching ladders and lifebuoys. Cut out the foil and glue the windows 46 into the cabin.

Slide the lifebuoys 47 into the hooks on the cabin. Glue the headlight 49 and glue it to the cabin. Made of plastic cut out the boards and use the file to shape the cabinets of the position lights 50 and glue them to the cabin. In the closets glue the lights 51 to the position lights. Glue the horn 52, the railing 53 and the ladder 54 to the cabin.

Glue the eyes 55 to the fuselage and the roof of the cabin and tie the rubber 56 to them. This will secure the cabin against falling off the deck.

Cut out the parts of the lifeboat seats 59, the base 60 and the rudder 61 from the plywood. To the hull glue the seats 59 and the rudder 61 to the lifeboat 58. Glue the parts of the base 60 to the deck.

Glue the lifeboat to the base. Glue the drum 27 to the stern winch 61A. Tie to the drum stick the rope and stick the whole part to the board.

Cut the beech log 62 by ø6 mm into the following parts: 1 piece of front mast 62A in length 34 cm; 2 pcs of front mast boom 62B length 25 cm, 2 pcs of boom for attachment of fishing net 62C length 15 cm; rear mast 62D length 30 cm rear mast boom 62E length 15 cm.

Drill 1 mm holes in the mast and boom parts according to the drawing and glue them from the wire with ø1 mm shaped eyelets 48 for attaching ropes. Glue the heel of the mast 63, fittings, to the front mast the mast of the front mast 64, the lamp seats 69 and the head of the mast 71. Glue the heel of the mast to the rear mast 63, rear mast boom fittings 65, radar bed 70 with support 67, lamp bed 69 and mast head 71. Anchor the masts to the deck using a rope and according to the drawing.

Drill ø1 mm holes in the axis of the booms 62B and 62E and glue a ø1 mm wire into them. This glue the wire into the holes in the parts of the mast fittings 64 and 65. According to the drawing, anchor the booms using rope and pulleys 66. Tie the rope fishing net 72 to the spokes 62C and tie the parts to the fuselage side braces 24.

## Surface treatment of the model:

The overall appearance of the model depends on the quality of the surface treatment. Surface finish model is made with colored paint. We recommend synthetic paints for plastic models.

Do not use nitrocombination paints! It's damaging yeast. Before starting the surface treatment of the model we recommend rinsing the individual parts thoroughly from dust in a solution of water and detergent and roughening them

Fine sandpaper (grain size 1000) The surface of the model must be dry and not greasy. At do not rush to finish the model. We recommend individual parts, eg rescue boat, lifebuoys, anchor, winches with drums .... stick only after surface treatment. After ending surface finishes stick stickers with the name of the ship on the model.

After gluing, the wooden parts must be provided with an impregnating coating, preferably with linen varnish. This The coating protects these parts of the model from the effects of water and moisture and needs to be done in a few layers. We recommend impregnating the deck with varnish. After applying the impregnation coating, paint wooden parts with synthetic varnish for outdoor environments.

## The model is colored as follows:

Red: hull of the cutter and lifeboat below the waterline, rudder fin, interior of the left position light, fan interior, 1/2 lifebuoys.

White: hull and lifeboat above the waterline, fans, entrance to the lower deck, vinolam, railing, radar, ladder, 1/2 lifebuoys.

Black: girders, anchor winch, winch with drums, handles, hinges, anchor, headlight, cabin hooks, eyes on masts.

Blue: hull and lifeboat line

Green: cabin roofs, storage cover, tiller cover, interior right position light.

Gold: ship propellers, horn, lamp frames.

## Driving in the model:

Before the first ride, we recommend testing at home to see if water is flowing into the boat. Ride with the model on calm water surface without dirt and windless with freshly charged batteries. To control the rudder use a servo, use a 16A bidirectional electronic controller to control the electric motor.

The model needs to be balanced so that the water level is on the waterline (on the KVR plan). Front the load is 700 g, the rear 500 g. All parts of the RC kit and batteries we recommend attaching to the model with double-sided adhesive tape. You will prevent them from moving in the model while driving.

CARE THE SAFETY OF SWIMMERS IN WATER, DO NOT THREATEN THEIR SAFETY BY DRIVING WITH THE MODEL IN THEIR IMMEDIATE NEAR !!!!

We wish you many nice rides.

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### List of FALKE kit parts

Part Name	Part no.	Quantity
3 mm plywood (pedestal fronts, front ligament, torso side reinforcements, boom fittings)	1,21,24,64,65	1 pc.
Spruce beam 8 x 8 x 500 mm	2	1 pc.
Hull	3	1 pc.
Steering tunnel (left + right half)	4	1 +1 pc.
Rudder shaft (wire ø2.6 mm)	5	1 pc.
Steering fin (left + right half)	6	1 +1 pc.
Steering tunnel reinforcement	7	1 pc.
Steering lever	8	1 pc.
Rudder rod (ø 2 mm wire)	9	1 pc.

Fork end with pins	10	2 + 2 pcs.
Ship propeller shaft	11	1 pc.
Three-bladed ship propeller, ø 40 mm	12	1 pc.
Flexible coupling	13	1 pc.
Electric motor bed rib	14	1 pc.
Stiffeners for electric motor bed ribs	15	4 pc.
Rib for securing the front ballast	16	1 pc.
Bed for receiver and controller	17	1 +1 pc.
Battery bed for electric motor	18	1 pc.
Rib for securing the rear ballast	19	1 pc.
Servo bed	20	1 +1 pc.
Spruce bar 10 x 2 x 250 mm (for wooden deck, board and mounting)	22	16 pcs.
Spruce strip 10 x 2 x 750 mm (for wooden deck, mounting board)	22	16 pcs
Spruce rail 3 x 3 x 750 mm (for fuselage side rails)	23	2 pc.
Spruce bar 3 x 3 x 250 mm	23	2 pc.
Spruce bar 4 x 4 x 500 mm (for deck reinforcements)	22	4 pc.
Breakwater	25	1 pc.
Winch on the bow	26	1 pc.
Winch drums	27	5 + 5 pcs.
Fans (left + right half)	28	2 + 2 pcs
SV ship anchor, lifebuoys	29, 47	1 pc.
SV dies, anchor handle, winch, horn, ladder,	30, 31, 52, 53, 54	1 pc.
Anchor winch	31	1 + 1 pc.
Rope	32	10 m
Entrance to the lower deck	33	1 pc.
1.5 mm thick plywood with cabin parts, doors, radar bed and lights, support for the radar bed, seats and rudder of the lifeboat	33,34,35,36,37,38,39,40,41,44, 45, 57,59,60,61,67,69,70,71	
Warehouse cover	35C	1 pc.
Upper roof	42	1 pc.
Lower roof	43	1 pc.
Foils for windows	46	1 pc.
ø 1 mm wire (handles, hinges, lifebuoy holder, eyes, hooks)	48	2 pcs.
Headlight	49	1 pc.
Position light cabinets	50	2 pcs.
Flashlights	51	5 pcs.
Cab mounting eyes	55	2 pcs.
Rubber for mounting the cabin	56	1 pc.
Steering lever cover	57C	1 pc.
Lifeboat hull	58	1 pc.
Stern winch	61A	1 pc.
Beech log o (ø 6 x 800 mm (masts and booms	62A – 62E	2 pcs.
Mast heel	63	2 pcs.
Pulleys	66	9 pcs.
Radar	68	1 pc.
Fishing net	71	1 pc.
Sticker FALKE	72	1 pc.
Instructions + drawing		1 pc.