

Empire Iv

DAVE ABBOTT reviews one of the latest kits from Mountfleet Models



he Empire class tugs were part of a massive shipbuilding programme for the Second World War. There were some 146 built under this programme - they were all Government ordered and owned and constructed to several different classifications. Many were sent to UK ports and run by towing companies as part of their own fleets, whilst the rest were managed by the Navy.

Because of the short time scale, the building of these tugs was achieved by simplified building methods; this also contributed to economies in the materials used during building.





The Empire Ivy was built by Goole Shipbuilding and Repair Company Ltd. The company was formed by the Cragg Family in 1901 and all work was carried out on the River Humber at Goole. The company changed names and owners over a number of years and was taken over by Swan Hunter and Wigham Richard Ltd in 1967. It was then amalgamated with British Shipbuilding in 1977 and finally closed down and ceased trading in 1984. Quite a long and prestigious history.

The main difference between the Civilian and the Naval tugs was the construction of the wheelhouse and the colour schemes.

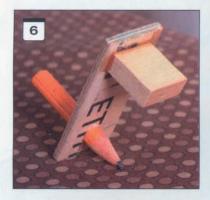
The Kit

The model is produced to a scale of 1:32 giving a LOA of 41.5in (1055mm) and a beam of 9.5in (240mm), with a displacement of approximately 281b (12.5kg). The hull is a one-piece GRP moulding, as also are the superstructures, ship's boats and funnel. Other materials include wood, deck plating materials etc., and as usual from this company, the normal high quality white metal size plans and an excellent building manual complete with 12 large colour photographs. The added bonus of this kit is that it can be built either as the Naval or the Civilian vessel - the Flying Tempest in Civilian mode and the Empire Ivy as the Naval version. The drawings, materials and information apply to either version, so it is personal choice which to build. I decided on the Empire Ivy.











Although every other thing in the kit is

supplied I was disappointed to find that a 70mm 4-bladed propeller was not included, although it was stated in the introduction



keep the cost of the kit down. I feel it is a shame not to have included this essential part to make it a complete kit - perhaps even as an optional extra? Stand first!

Before starting on the kit itself, build a sturdy stand for the model to rest on during the construction, as nothing is worse than having a model rolling around on the workbench. There is no need to profile the shape of the hull for the stand as templates are provided on the full size plans, but do make the stand from some sturdy ply or wood, as when complete the model will weigh in the region of 28lbs(12.5kgs).

Making a start

First decision to make is the type of motor to be used, remembering that it is going to have to swing a 70mm 4-blade propeller. I chose to use a geared 12v Decaperm.

The rudder assembly is installed first. Fitting the stern frame and rudder, which are both white metal fittings is probably the most important thing to get right as all the other in temporary position while the hole for the propeller tube is drilled. I always find that the best way to drill for the tube is to start with a small drill, enlarge with larger drills, and then use a round file to get to the correct size. Having got the prop tube installed snugly, fit the brass propeller (not supplied in the kit) and make sure that it does not foul the stern frame, as shown in Photo 3. At the same time make sure that the motor is in line, then temporarily fit the motor coupling. When completely happy with all this, take apart and glue all the parts previously described. See **Photo 4**. Note that I have soldered into the prop shaft an oiling tube as this helps to keep the water out of the hull and lubricate the shaft. When all the glued parts are set the tiller arm for the rudder needs to be installed. This is another white metal fitting and needs to be fitted to check the free running of the rudder. See Photo 5.

Strip-wood is provided for the frame on which the deck will sit, and a line has to be marked on the inside of the hull, first checking the deck level and then running a line through to the contours of the sheer of the hull. To obtain

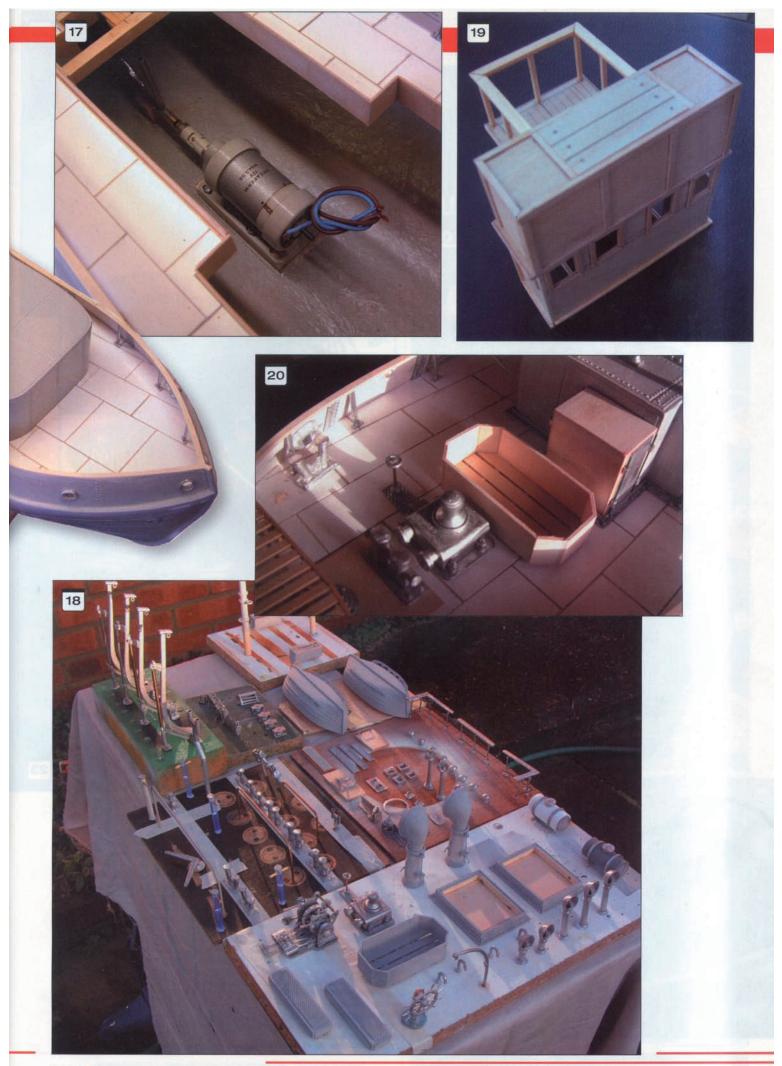




a correct line, make up a small gauge from plywood and insert a pencil at the correct depth and then run the gauge around the inside of the hull as in Photos 6 and 7. Start by fitting the strip-wood around the sweeping parts of the hull and when the bow and stern parts are reached, slots can be cut into the strip-wood so that the shapes can be easily fitted as shown in Photos 8, 9 and 10. When the glue has set on











R/C

At his stage of the building I find it best to install the R/C equipment. This was a simple operation, a speed controller for motor, and the rudder servo. Most of the R/C installation can be seen in **Photo 22**. As mentioned previously the motor was a 12v Decaperm and the batteries were 12v 12AH sealed lead acid, with a Futaba 2-channel receiver and servo.

Ballasting

Photos 23 and 24 show the finished model ready for ballasting and her maiden launch. As usual the ballasting was done in the domestic test tank (the bath), and even with the sealed lead acid batteries in place a considerable amount of lead ballast was added to bring the model to its correct water-line - in fact the finished weight of the tug was around 28lbs, (12.5kgs) - this brought the hull down to a realistic appearance on the water.

Conclusion

So now to the big test, down to the local lake. Any trepidations, that I had about the performance on the water were soon forgotten, and as with all the other Mountfleet models I have built, she performed perfectly, was easy to control with very tight turning circles and steady as could be on the water.

A fairly uncomplicated model to build, and there were no parts missing in the kit. Full size plans and informative instruction manual were included. A good size which will fit into most cars with no problem; she looks good and performs well on the water. Good value for money. But please Mr Mountfleet, how about a propeller in the next model?

Available direct from Mountfleet Models, Laurel Mount, 79 Holmfirth Road, Meltham, Huddersfield HD7 3DA. Tel: 01484 851569. Price is £235.

