

euronG
 ENG-008
Diema DS40
Diesel

Prototype Info

Diepholzer Maschinenfabrik Fritz Schöttler GmbH (Diema) is one of the best-known field railway manufacturers in Germany. The factory was located in Diepholz and the company mainly produced locomotives for field, peat and mining railways.

The DS30/40 shared a common body fitted with a gearbox and chain drive and were built for many years after the Second World War. During that time several versions of cab were fitted. Our kit represents a taller late model cab fitted from the mid 1960s, and is based upon on a 900mm gauge prototype used on the Klasmann-Werke GmbH network of lines in Elwerath, Germany.

Parts required:

0.4 and 0.9mm brass rod.
Glazing material.



Thank you for purchasing this EuroNarrowGauge kit, we hope you enjoy building and operating it. Please read through the instructions thoroughly before beginning assembly.

Tools required:

Sharp craft knife or scalpel
Tweezers
Needle file

Wet and dry paper

Superglue
0.45mm drill bits
Twist drill or minidrill

About the kit

The kit is comprised of a 3D printed plastic body shell and a fret of etched nickel silver detail parts. Limited folding of these parts is required and they can all be glued in place. We recommend sparing use of liquid superglue for assembly, ideally using a bottle with a thin applicator nozzle.

Due to the nature of the 3D printing process, some support material may still be present on the body. This waxy residue has been cleaned during our checking process, but it can be a good idea to submerge the model in white spirit, agitated gently with an old tooth brush and leave to dry. The plastic used may be easily cleaned up with a sharp knife and fine wet and dry paper or emery boards to remove any roughness left from the support material used during production.

Please note this is a scale model for adult collectors and not intended for children under 14 years of age.

Assembly Notes

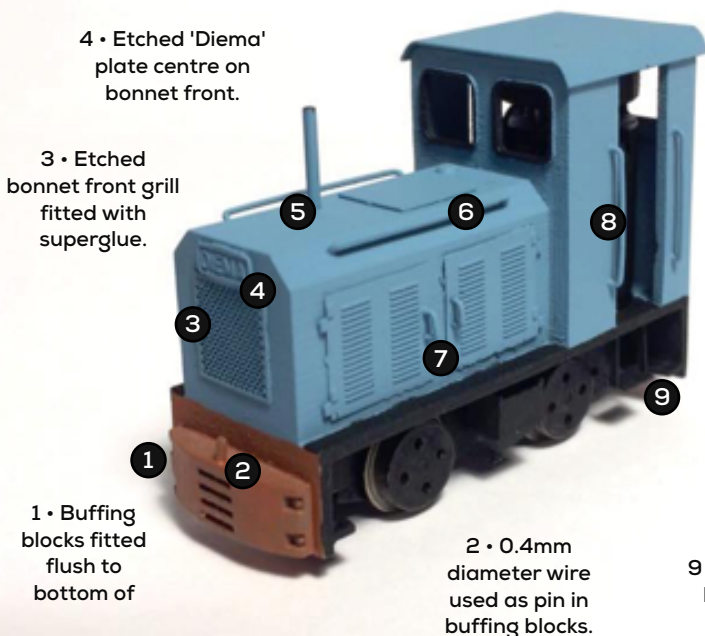
1 • Clean up the 3D printed body • Use a fine wet and dry paper (640 then 1200 grade if possible) in water to achieve a smooth finish to the cab and tank sides. Rinse the model in a white spirit to remove any traces of printing residue or grease from handling.

2 • Check the donor chassis • The kit is designed to fit a Minitrains Gmeinder diesel engine chassis. Before removing the body from your donor locomotive it is suggested you run the model in following the manufacturer's instructions.

3 • Test fit the body • Offer up the kit body to the chassis to check for alignment and fitting. No adjustment should be necessary, but if required remove a small amount of material with a sharp craft knife or needle file from the 3D print. The chassis is a push fit within the body.

4 • Detailing • The etched parts can now be carefully removed from the fret, taking care to only remove the parts you need to avoid the risk of loss or damage. Carefully remove each part from the fret using a sharp knife on a cutting mat or similar hard surface, or sharp needle nosed scissors to minimise the risk of damaging thin parts. Clean up the tags.

Parts Placement



4 • Etched 'Diema' plate centre on bonnet front.

3 • Etched bonnet front grill fitted with superglue.

1 • Buffing blocks fitted flush to bottom of

2 • 0.4mm diameter wire used as pin in buffing blocks.

5 • 0.9mm brass wire for exhaust.

6 • 0.4mm brass wire for bonnet handrails in pre-formed holes.

7 • Etched bonnet doors (note left and right hand positions), drill out handle holes 0.45mm and fit 0.4mm brass wire door handles.

8 • 0.4mm brass wire formed handrails in pre-formed holes.

9 • Etched fold up cab steps. Half etch is always on the inside of the fold.

5 • Weight • To improve the performance of the model it is suggested that some strip lead is added within the bonnet. There is space to add this to both ends and still fit the donor chassis into the print. This is available from Eileen's Emporium or any plumbing supplier. It is recommended that this is secured with superglue to avoid the risk of blooming of the lead.

Painting and finishing

To ensure a quality finish we recommend applying two thin coats of primer, with a gentle sanding in between to remove any surface defects. We recommend Halfords car plastic primer, which is grey, easy to apply, widely available and provides an excellent surface for further detailing. Leave the primed model for a few days to harden.

The prototype locomotives were often finished in green with red chassis and wheels, however a search on the internet will turn up all manner of different livery options. Use your imagination!

Acknowledgements

We would like to thank members of the 009 Society and NGRM-Online for their feedback and support in the production of this kit.

About EuroNarrowGauge

EuroNarrowGauge was founded in 2014 with support from Narrow Planet. This kit is part of an expanding range of European prototypes and was designed by James Hilton. If you have any queries about the model or instructions please get in touch.

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