

## Drawings and Castings for the Model Engineer

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## The L.N.W.R. 0-6-0 'Coal Engine' Locomotive in 5" Gauge.

### PRICE LIST for DRAWINGS & MATERIALS.

This engine design is offered as a development of the Coal Tank. All the Coal Tank chassis information is applicable except for the new drag box, new running boards and splashers, reverser stand and cab. The original design was published as a construction series for both an early and later version of this prototypical model in the EiM magazine between Oct. 1993 and Sept. 1999. This addition was serialised in the EiM magazine from March to August 2016.

Details for the tender are also available from the 'Owl' Problem Class engine by *Hotspur Designs*.

#### Drawings:

Ten drawings are available:- GA and dragbox; the chassis stiffening brackets and running boards; cab sides and reverser frame; reverser mechanism and cab assembly; cab windows, steps and rear entry stanchions; rear coupled axle suspension and lubrication boxes; cab splasher details, steam brake, Lub. Oil pump arrangement and pipe rail. Price: £15. The Coal Tank drawing list is overleaf.

Materials:- (No VAT charged, but postage/carriage and insurance are extra)

The following components have either been cast from patterns made by the designer and produced directly in co-operation in with the founders, or made from drawings provided to a specialist.

#### Laser Cut Plates:

1. Mainframes – 3mm BMS (per pair)	£60.00
2. Buffer beam stiffening plate material (2mm rough sawn)	£5.00
3. Set of hornblock plates for fabrication to simulate the cast versions (4-off)	£40.00
4. Throat plate stretcher	£6.00
5. Rear coupled axle stretcher flanges (pr)	£8.00
6. Rear dragbox assembly (set)	£15.00
7. Weighshaft bearing pedestal bracket (pr)	£6.50
8. Laser cut backplates for driving wheels – 3mm BMS, (6-off)	£36.00
9. Laser cut balance weights (3mm) (set of 12)	£25.00
10. Set of 4 laser cut crank webs	£20.00
11. Laser cut brake hanger strips for CI brakes (set of 12 parts)	£22.00
12. Laser cut parts for sandbox lids (steel and brass assemblies) (2 prs)	£18.00
13. Brake pull rods – 4 off (stainless steel)	£20.00

#### Iron Castings:

14. Cylinder blocks (pr)	£35.00
15. Driving wheels – cast iron (basic castings, 6-off)	£120.00
(Fully machined castings are also available if required)	£250.00
16. Dome	£28.00
17. Brake block ring	£26.00

#### Water jet cut, lost wax cast and special parts:

18. Jig plate for driving wheel spoke openings (special order)	£8.00
19. Water jet cut hooks – gauge plate (pr)	£18.00
20. Water jet cut expansion links in 3/16" gauge plate (pr)	£28.00
21. Water jet cut front spring hangers (set of 8)	£26.00
22. Lost wax 5 or 6-spoke stainless hand wheel castings for reverser	£10.00
23. Lost wax stainless castings for smokebox door wheel and handle	£9.00

#### Bronze castings:

24. Cylinder blocks and valve chest – bronze, (set of 3 parts)	£65.00
25. Steam chest (for use with iron cylinder castings)	£23.00
26. Motion plate – basic casting	£25.00

<b>26. Chimney material –</b>	<b>£48.00</b>
<b>27. Boiler dome bush –</b>	<b>£16.00</b>
<b>28. Safety valve bonnet –</b>	<b>£21.00</b>

**Extras:**

<b>29. Running board material (thin steel strip)</b>	<b>£5.00.</b>
<b>30. Piece of 3/32” gauge plate for the L.O. Pump lever pawl.</b>	<b>£2.00</b>
<b>31. Packet of 250-off, 1mm brass snap head rivets (for cab construction)</b>	<b>£3.00</b>

For reference - LNWR ‘Coal Tank’ 0-6-2T, Drawing List (All drawings Xerox black line size A2, unless stated)

<u>No.</u>	<u>Title</u>
1.	GA of Locomotive (A1)
2.	Front and part side elevation of Ramsbottom smokebox
3.	Frame assembly layout (½ A0)
4.	Mainframe detail (½ A0)
5.	Rear buffer beam
6.	Rear hook and guard iron
7.	Buffer assemblies and front hook
8.	Radial axle stretcher and spring details
9.	Radial axlebox and hornplates
10.	Rear coupled axle stretcher and suspension beam arrangement
11.	Rear coupled axleboxes and horncheeks
12.	Driving and front coupled axleboxes and horns
13.	Driving and front coupled axle springs and hangers
14.	Front guard iron, front buffer beam assembly and main stretcher
15.	Alternative Bowen-Cooke and LMS buffer assemblies and lamp irons
16.	Frame outside stiffening angles, side brackets and brake hanger brackets
17.	Radial axle and wheel assembly details
18.	Coupled wheel assembly details and coupling rod pins
19.	Crank axle assembly, eccentric details and coupled axles
20.	Coupling rods
21.	General arrangement of cylinders, valve gear and valve chest details
22.	Cylinders and front covers
23.	Remaining covers, pistons, crossheads, valves and slidebars
24.	Motion plate assembly, valve guide brackets and weighshaft brackets
25.	Connecting rod details, valve rod and adjuster
26.	Weighshaft assembly and bearings plus valve gear details
27.	Brake hanger assemblies (wood and iron blocks)
28.	Cylinder drain valve and brake operating linkages
29.	Smokebox assemblies for Webb and Ramsbottom smokebox doors (A1)
30.	Chimney, and smokebox lamp brackets (both versions)
31.	Exhaust pipework assembly details and cylinder drain cock frame linkage
32.	Boiler assembly
33.	Boiler construction
34.	Boiler fittings (1)
35.	Regulator details
36.	Boiler fittings (2), superheater, blower details and pipework
37.	Boiler fittings (3), manifold, blower and injector valves
38.	Boiler fittings (4), water gauge and whistle valve assemblies
39.	Firebox door, ashpan skirt and damper details
40.	Ashpan details, lubricator drive and mounting arrangement
41.	Lubricator assembly and under cab pipework
42.	Running boards, cladding and sandboxes (A1)
43.	Dome, safety valve bonnet and bunker floor
44.	Sidetank assemblies
45.	Sidetank details and reverser assembly
46.	Bunker general arrangement (A1)
47.	Bunker handpump assembly
48.	Bunker construction details
49.	Bunker filler and pipework details
50.	Toolbox assembly
51.	Bunker front, coal plate and cab access panel plus bunker door
52.	handbrake gearbox and operating lever
53.	Bunker finishing details
54.	Cab construction
55.	Cab steps and operating controls, plus sandbox covers and dummy linkage
56.	Smokebox finishing details (A3)

**Payment and Carriage:**

**Kindly make cheques payable to *Hotspur Designs*. Materials may be collected at exhibitions.**