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PRICE LIST for DRAWINGS & MATERIALS

L.N.W.R. 0-8-2T Heavy Shunting Locomotive in 5" Gauge.

These details cover the drawings and parts available for the Bowen-Cooke 0-8-2T Tank engine introduced in 1911-12 for work in the large marshalling yards as 'Hump' shunters. Much of the construction follows the 'Wessie' design featured in the EiM magazine but the frames and their spacing are different to cater for the trailing radial axle assembly. The engine has a pole reverser for ease of control.

DRAWINGS:

All drawings are fine line copied from film and are either A1 or A2. Sheets cost either £2 or £2.50 each but batches of drawings are discounted. (See overleaf for list available to date)

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

Laser - cut Steel parts:

Set of 4 main frames (including handbrake shaft spacer plates)	£95.00
Front buffer beam plates (3mm mild steel) (2-off required)	£14.50
Front and rear buffer beam gusset brackets (12 parts) (2x2 pairs)	£22.00
Rear drag box (set of 6 parts – 3mm mild steel)	£19.50
Boiler support stay (3 parts – 3mm mild steel)	£9.00
Driving axle centre stay (3mm mild Steel)	£6.10
Driving wheel backplates (set of 8)	£36.00
Jig plate (for setting out openings in driving wheels) (special order only)	£8.00
Trailing wheel backplates (pr)	£9.00
Jig plate (for setting out openings in trailing wheels) (special order only)	£6.50
Crank webs (set of 4 – 10mm mild steel plate)	£36.00
Connecting rods (heavy duty) (pr)	£18.00
Brake hangers – now 2mm material (set of 8 prs)	£32.00
Brake beam plates – now 2mm material (4 prs)	£24.00
Motion plate	£14.50
Front guard irons (pr)	£8.50
Rear guard irons (pr)	£7.50
Laser cut balance weight plates (3mm) (set of 18)	£36.00
Single piece coupling rod blanks (set of 6)	£60.00
Sandbox lid parts (MS & Brass) (one of each required for one assembly) each with CT drg.	£9.00

Lost wax stainless steel castings:

Smokebox handwheel and handle	£9.00
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Water jet cut steel parts:

Hooks (gauge plate) pair	£18.00
Spring hangers for leading and driving axle (set of 8)	£26.00
Connecting rods (pr) (1/4" plate)	£33.00

Cast Iron Parts:

Driving wheels (set of 8)	£150.00
Finished machined driving wheel castings (special order) (set of 8)	£320.00
Trailing wheels (pr)	£30.00
Cylinder casting (for slide valves)	£60.00
Steam chest for slide valve cylinders	£20.00
Brake block ring	£26.00

Bronze Parts:

Trailing axle stretcher and spring support frames (pr)	£17.00
Cylinder castings (slide valve and chest)	POA
Leading, driving and intermediate coupled axle horns (set of 6)	£40.00
Radial axle components (4 parts)	£65.00

Drawings available for 0-8-2T Tank:-

- A) Details of frames and stretcher parts
- B) Chassis trailing axle suspension parts
- C) Main horn blocks and suspension components, plus crankshaft and wheel boss dimensions.
- D) Leading axle suspension spring, buffer assemblies and buffer beam gusset details.

A copy of the prototype drawing will also be available as close to 5" scale as possible.

Wessie drawings for reference:-

- 1 GA of Locomotive (½A0)
- 2 Frames and hornblock details for C,D and G classes (½A0)
- 3 Front buffer beam details and boiler plate stay for C and D Classes (A2)
- 4 Dragbox assembly, rear beam plate and driving axle centre stay details(for C/D)(A2)
- 5 Buffer details, axleboxes and hooks (A2)
- 6 Axles including crank axle parts, plus rear intermediate stay and G2 plate stay(A2)
- 7 Suspension parts for leading and driving axles.
- 8 Suspension details for intermediate and driving axles.
- 9 Trailing axlebox detail plus driving wheels and crankpins.
- 10 Methods for fitting/quartering wheels and axles.
- 11 Details of coupling rods for all classes(1)
- 12 Details of coupling rods for all classes(2)
- 13 Brake gear parts; brackets, hangers, blocks and crossbeams
- 14 Slide valve cylinder details; blocks, covers, valves, pistons and steam chest
- 15 Cross heads, slide bars, steam chest cover (D class) and motion plate
- 16 Centre bearing and connecting rod assembly details plus 'D' Class Joy valve gear parts
- 17 Joy valve gear GA for 'D' Class and slide machining tool
- 18 Slide shaft assembly.
- 19 G2 boiler drawing (Belpair firebox)
- 20 'D' Class boiler drawing (Round Top firebox)
- 21 Piston valve cylinder block and valve details
- 22 Slide shaft bearings, alternative drain cock position and operating linkage
- 23 Piston valve gear GA reach rods and front guard irons
- 24 Reverser details and lubricator GA
- 25 Lubricator details and steam brake cylinder
- 26 Brake linkage(s) for C and D classes
- 27 Brake linkage for G2 and vacuum cylinder
- 28 Vacuum cylinder mountings, boiler inner dome and regulator handles
- 29 Safety valves and smokebox details.
- 30 Running board details (½A0).
- 31 Smokebox assemblies.
- 32 Chimney and blast pipe details.
- 33 Superheater assembly details
- 34 Blower assembly details, hand pump clack valve and blow down valve.
- 35 Reverser wheel, backhead clack, steam turret and injector steam valve.
- 36 Water gauge assembly, whistle valve and steam brake valve details.
- 37 LMS firebox door and ashpan and grate assembly.
- 38 Cab details for both 'C', 'D' and 'G1' plus the later G2 versions.
- 39 Dome, safety valve casing and cab floor
- 40 Sandbox details
- 41 Working sandbox valve and operating shafts, plus vacuum pipe and dummy lubricator
- 42 General arrangement drawings for Bowen-Cooke tender for G2.(A1)
- 43 Chassis frame details for Bowen Cooke tender design
- 44 Tender buffer beams and brakshaft bracket details.
- 45 Whale tender outside frame and other common brake hanger and bracket details
- 46 Tender axleboxes, wheels, axle and buffer arrangements
- 47 Tender brake gear mechanism for Bowen-Cooke version.
- 48 Whale tender brake gear and water scoop details.
- 49 Tender body details (1)
- 50 Tender body details (2) (A1)
- 51 Tender hand pump & water valves, plus 'coping' upstand.
- 52 (Pt. Drg.) Tender screw mechanism for brakes and scoop, plus operating rods.
- 53 (Pt. Drg.) Tender rear step details and water pipe connection.