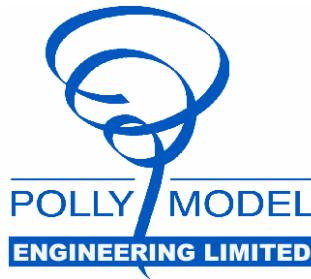


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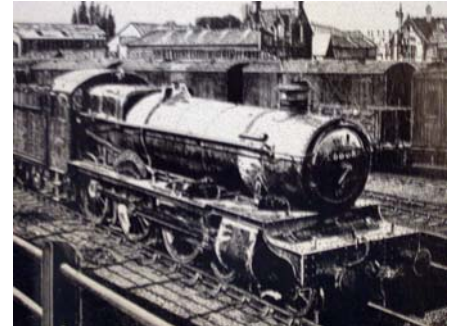
Incorporating BRUCE ENGINEERING

Practical Scale: 5" gauge "Penrhos Grange"

Designed by Neville Evans

Revised price list January 2008

Prices subject to amendment on receipt of stock from suppliers.



All drawings are full size for 1 1/16" to one foot.
 Further drawings will be added to list as available Full set of loco drawings £75 inc vat.

GR1 Penrhos Grange General Arrangement	£14.50
GR2 Penrhos Grange, stretchers and spashers	£14.50
GR3 Frames, doublers, buffer beams and hornblocks – 'New' Cylinders, leaf springs and scale bogie	£14.50
Frame drawings showing alternative coil spring arrangements in place of the leaf springs or the use of Torquay Manor cylinders are available, please enquire for details.	
GR4 2 Cylinder bogie	£11.00
GR5 Wheels and outside motion	£7.50
GR6 GWR No 1 Boiler GA	£11.00
GR7 GWR No 1 Boiler Firebox	£11.00
GR8 GWR No 1 Boiler Plates and Bushes	£11.00
GR9 Cylinders, crossheads, etc	£11.00
GR10 Valve Gear Penrhos Grange	£7.50
GR11 V'gear eccentrics, etc	£7.50
GR12 Grange Valances Stays and Cab Steps	£14.50
GR13 Grange Smokebox and Chimney	£14.50
GR14 Superheater and Saddle	£14.50
GR15 GWR Backhead Fittings	£7.50
GR16 Cab	£11.00
GR17 Brake Gear	£11.00
GR18 Draincocks and operating mechanism	£7.50
GR19 No 1 Boiler Cleading	£7.50
GR20 Backhead layout with sight feed lubricator	£7.50
P&P in A4 envelope	£2.00
P&P in postal tube	£4.50

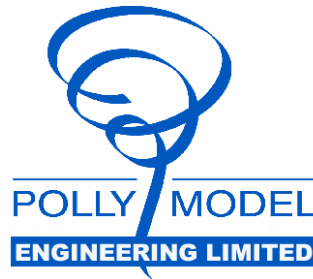
Cross-heads, lost wax castings in stainless steel, per pair	£30.00
Laser cut frames and doublers (New cylinders)	£52.00
Laser cut frames as above with all holes CNC centre drilled	£87.00
Laser cut frames and doublers (Torquay Manor Cyls)	POA
Bogie stay TM cylinders laser cut	£3.00
Cut blank for Bogie Stay PG cylinders	£3.00
GWR Standard parallel loco buffers fully working	£48.00 pr
GWR style screw link coupling set	£29.40 ea
Front and Rear loco Buffer plates laser cut with all holes	£23.00 pr
Reinforcing plates laser cut and drilled	£7.20 pr
Drag box stay H, steel block	£11.40
Front buffer beam stretcher block A	£6.00
Frame stay E, laser cut blank	£3.02
Rear main stay F, laser cut blank	£2.48
Rear lower stay G, laser cut blank	£2.24
Cylinder casting set GM, including front and rear caps	£140.00

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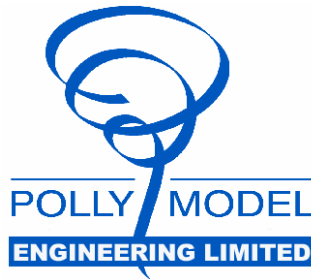
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Cylinder casting set Iron, including front and rear caps	£140.00
Cylinder drain cocks (GW pattern plunger type) set of 3	enquire
PSG7 Exhaust manifold	£9.75 ea
Smokebox saddle	£19.00
PSG6 Boiler support stay	£18.50
Motion brackets, lost wax castings	£29.00 pr
Reverser stand, lost wax casting	in prep
PSG10 Main driving wheels	£28.00 ea
Main Axle blanks silver steel (3 required)	£9.75 ea
PSG5 Eccentric casting (GM)	£17.50 set
Main Axle double sealed needle roller bearings	£7.80 ea
Driving wheel horns, lost wax casting	£7.30 ea
Spring hanger bracket, lost wax casting	£6.90 ea
Brake hanger bracket	£5.88 ea
Brake hanger, std GWR pattern	£6.95 each
Loco Brake blocks	TBA
Snifting Valve Lost wax castings	£20.64
Driver's Brake Valve – finished functional lost wax cast valve, ejector steam & vac operation	£75.00
Safety valve springs stainless steel	£1.95 each
Safety valve bonnet lost wax casting	£59.00
Chimney base	TBA
CNC machined con rods, per pair	£135.00
CNC machined coupling rods, per set	£240.00
Boiler flanged plates, per set	£130.00
Boiler complete, copper fully silver soldered, tested with certificate	POA
Stainless steel welded superheater elements	£118.00 pr
CNC cut/drilled cab platework set, includes glazed opening front windows, side windows, all roof	
Braces, cab side braces and basic angles, fully drilled	£250.00
CNC cut/drilled cab steps and step plates, brass	£22.00
PSG9 Bogie Wheels	£15.50 ea
Bogie Axle steel (silver steel ½" dia)	£5.45
Bogie top frame, laser cut with all holes	£12.50
Bogie equaliser bars, laser cut, set of 4	£24.00 set
Bogie Braces, set of laser cut parts	£8.50
Bogie guard irons, laser cut	£6.50 pr
PSG8 Bogie centre casting	£19.50
Bogie double sealed needle roller bearings	£4.50
Spring steel for loco main springs @ 68p per foot	£15.64
Spring steel for bogie springs @ 62p per foot	£8.06
Brake actuation levers laser cut	£2.20
Brake equaliser beams laser cut	£8.20
Reach rod laser cut	£3.20
Firebars laser cut stainless steel	£2.75 ea
Grate support laser cut	£7.00 pr
Handrail Stanchions, long, short and short blind type	all £6.50 per 10
Cab side windows, glazed – fix as prototype with 12 BA blind bolts from inside cab	£35 per pair
Cab front Windows early type one piece frame with separate hinges	£45 per pair
Cab front windows later type, two piece frame with bolt holes around aperture	£52 per pair
Expansion link and die block set, wire eroded	£150 set

Further platework and other components will be available in the future. Some parts, e.g. cab components are also available to suit 7 ¼ gauge locos.

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Penrhos Grange GWR Collet 3500 and 4000 gallon Tenders

Tender drawings for Collet designed tenders, early and late frame styles included. Full set tender drawings £45.00 (please state which tender)

Individual sheets:

GRT-3500 3500 gallon tender GA and some details	£14.50
GRT-3500tank 3500 gallon tank platework, baffles, Etc	£14.50
GRT-4000 4000 gallon tender GA and some details	£14.50
GRT-4000tank 4000 gallon tank platework, baffles, etc	£14.50
GRT-U1 Common Collet underframe drawing sheet 1	£14.50
GRT-U2 Common Collet underframe drawing sheet 2	£14.50

Tender Parts

Tender Axlebox lost wax castings set of 6 (or pro rata)	£84.00
Tender horns, lost wax steelcastings	£6.95 ea
GWR parallel body working sprung buffers complete	£48.00 pr
Tender brake hangers	£8.00 ea
Tender frames, laser cut inner outer and cross braces set, early style	£65.00
Tender frames, laser cut inner outer and cross braces set, later style	£65.00
Tender buffer plates front and rear	£14 pr
Tender spring hanger brackets early style per set of 12	£42.00
Tender spring hanger brackets later style per set of 12	£42.00
Tender Wheels	£18.50 ea
Tender axle material (Silver steel ½" dia, 3 lengths required)	£5.45 ea
Bogie/tender axlebox double sealed needle roller bearings	£4.50 ea
Water scoop dome, finish machined	£69.00
Spring steel 3/8" x 1mm for leaf springs (6metres required)	£2.95 per m

Tender platework: All tender platework for both versions of the tender is available to order. This includes, the soleplate, side sheets, top sheets, folded angles for joining, tender decking and coal space, tender front, various joint strips and angles, bulkheads, toolboxes, doors, brackets and platforms. Copper or brass rivets and slotless screws to suit are also stocked. Prices of platework vary dependent upon individual requirements, please contact us for a quote. Approximate price for the fully drilled platework for a complete tender tank is £300 including VAT. Toolboxes, brackets, front platforms, coal doors, etc, £45 including VAT. Steps and step plates, set of 4, £25.

Rivets copper or brass 3/64" dia for tender tank assembly £11 per 1000

Rivet head brass M1.2 screws, to match brass rivets, to assist assembly £10 per 100, nuts £10.70 per 100

Rivet head brass M1.6 screws for tank base angle, £11.75 per 125 (enough for one tender), nuts £11.50 per 125

Rivet closing tools also available.

Further castings and parts in preparation, see web page for announcements or email/telephone for details. Many specialist parts, fittings and materials for completion of the model are available from stock.

Please make cheques payable to 'Polly Model Engineering Ltd'. All parts prices include VAT, postage extra. Drawings/Castings pre-ordered can be collected from exhibitions/rallies as appropriate.