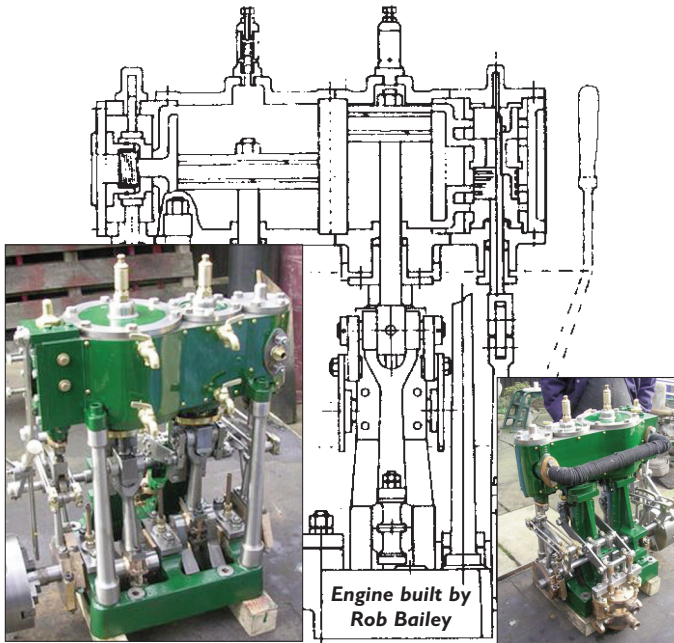




THE MARINE ENGINE DESIGNS OF A.A. LEAK.

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3" & 5" X 3" MARINE COMPOUND ENGINE



Designed for heavy use with robust construction and large bearing surfaces.

Piston valve on HP valve chest, balanced slide valve on LP valve chest.

Split cylinder block and valve chests make for easy construction.

Develops 11.2 IHP at 120psi and 450 rpm.

Steam consumption estimated conservatively at 390 lbs per hour

Inboard condenser with Edwards Air Pump

[Construction Manual](#)
currently reprinting

This fine engine caused considerable interest when described in *Model Engineer* and we are pleased to offer full drawing and casting sets for it.

Whilst a large engine, ONLY suitable for hulls over 25 foot, (and up to around 35 foot), it has been designed to be built on a 5" lathe and a milling machine such as a "Senior M1" - this has been achieved mainly by making each cylinder and valve chest a separate casting, but the same thought to machining problems is evident throughout the design.

Whilst intended to have inboard condenser and Edwards pump, these can be omitted if a keel condenser is preferred. The drawings include designs for a number of jigs which facilitate construction.

The drawing sets ONLY may be ordered through our website; www.camdenmin.co.uk

DRAWINGS - 8 Sheets - largely full size - £49.25 inc P & P and VAT.

8 sheets - reduced to A3 size - £21.54 inc P & P and VAT.

FULL CASTING SET - see listing over

Also available and designed by A.A. Leak:

(1) A larger Marine Compound 5" & 7" x 4" - basically an enlarged version of the engine above, suitable for hulls up to 45'. Drawings (9 sheets) - enquire regarding availability

(2) A 5" x 4" Single Cylinder Engine for marine or generating use.

Drawings (5 sheets) - enquire regarding availability

Enquire regarding limited casting availability for these two designs

ASH/hjh 01/15



3" & 5" x 3" LEAK MARINE COMPOUND ENGINE Casting Prices

Ref.	Description	Material	Number Required	Price
1	Baseplate	CI	1	£ 186.62
2	Column	CI	2	£ 70.70
3	Counterbalance Weights (pair)	CI	2	£ 41.02
4	LP Cylinder - Top Cover	CI	1	£ 53.41
5	LP Cylinder - Bottom Cover	CI	1	£ 59.81
6	Main Bearing Cap	CI	3	£ 21.58
7	HP Cylinder - Top Cover	CI	1	£ 44.00
8	HP Cylinder - Bottom Cover	CI	1	£ 51.27
9	Big End Bearing (half)	GM	4	£ 26.46
9a	HP Valve Chest - Bottom Cover	CI	1	£ 43.48
10	HP Valve Chest - Top Cover	CI	1	£ 43.11
11	Piston Valve	CI	1	£ 29.65
12	HP Valve Chest - Liner	CI	1	£ 31.44
13	HP Valve Chest	CI	1	£ 63.04
14	HP Cylinder	CI	1	£ 76.22
15	LP Cylinder	CI	1	£138.56
16	HP Piston	CI	1	£ 23.31
17	Eccentric Sheave	GM	4	£ 52.91
18	Eccentric	CI	4	£ 34.18
19	Air Pump - Centre	GM	1	£102.51
20	Air Pump - Top	GM	1	£126.28
21	Air Pump - Bottom	GM	1	£ 38.52
22	Water Pump Body	GM	2	£ 49.80
23	Water Pump Clack Valve Body	GM	2	£ 15.95
23a	Air Pump Displacer	GM	1	£ 16.95
24	Weighshaft Arm	CI	2	£ 12.80
25	Weighshaft Bearing Bracket	CI	2	£ 25.88
26	LP Valve Chest - Stuffing Box	CI	1	£ 19.13
27	LP Valve Chest - Cover	CI	1	£ 31.92
27a	Valve Chest Glands	GM	2	£ 35.80
28	Slide Valve - Face	CI	1	£ 19.94
29	Slide Valve - Back	CI	1	£ 20.36
30	Air Pump Mounting Plate	CI	1	£ 33.88
31	Air Pump - Top Cover	GM	1	£ 35.86
32	LP Piston (half)	CI	2	£ 31.66
33	LP Valve Chest	CI	1	£ 48.22
34	Main Bearings (half)	GM	2	£ 99.54
37	Connecting Rod	SGI	2	£ 54.28
38	Piston Rod & Crosshead	SGI	2	£ 49.50
39	Eccentric Rod	SGI	4	£ 22.40

NOTES: (1) Prices shown are for SINGLE castings only, and do NOT include VAT @ 20% or delivery.

(2) Prices are correct as at 28th May 2014, but are subject to alteration without prior notice - please check before ordering.