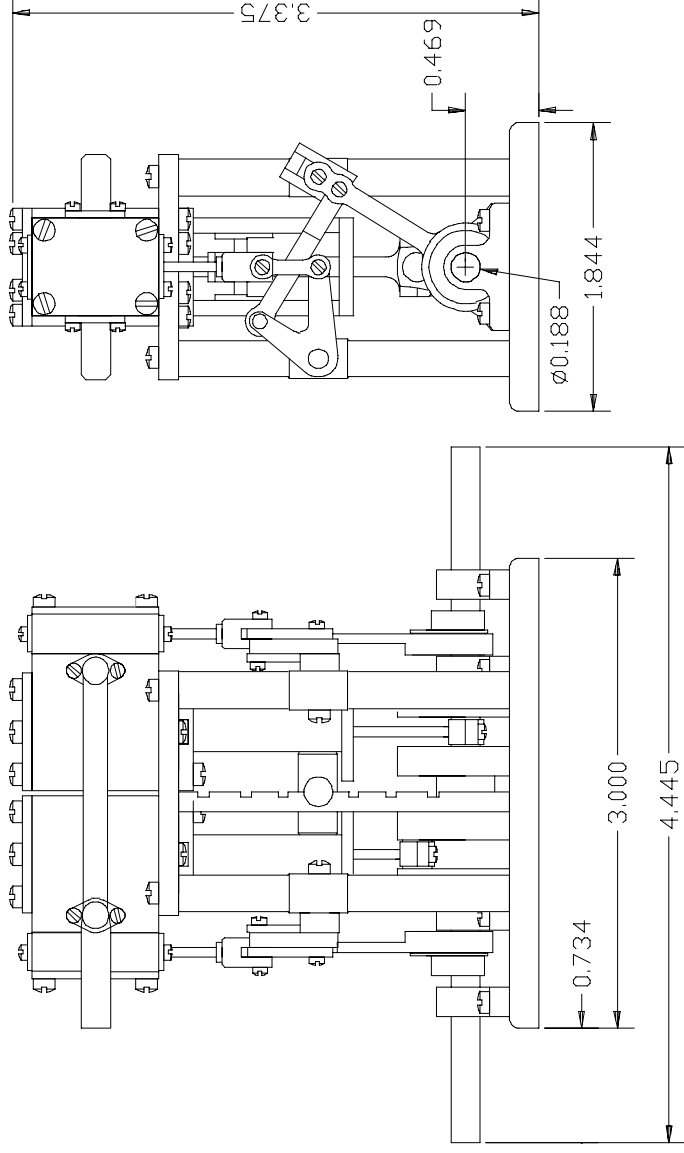
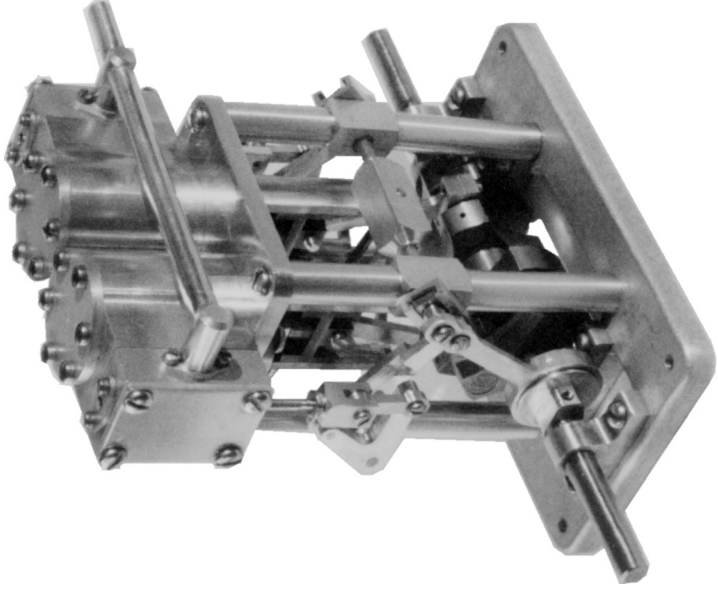


GAGE TVR1A



The GAGE TVR1A is a twin cylinder reversing steam engine with 1/2" bore and 5/8" stroke. The crankpins are set 90 degrees apart so the engine is self-starting at any position of the crankshaft. A Hackworth reversing gear is used to provide reversing operation and is easily adapted to radio control. All machining is done and critical assemblies such as the silver soldered manifolds are pre-assembled. All necessary materials and hardware are supplied. Most of the hardware is stainless steel and the machined parts are made of brass, steel and aluminum.

Only a few hand tools are required to assemble this kit. These include a set of small screwdrivers, needle nose pliers and a small file. Approximately 6 to 10 hours are required to assemble this engine. If desired, all parts will accept a high polish. This will take some extra time, but will produce an exhibition quality model.

With steam or air operating pressure up to 35 psi, this is a powerful engine for model marine use. After breaking in, the TVR1A makes a good display model operating reliably at low speeds with under 5 psi pressure. Included with the kit is a detailed 17 page instruction manual, which includes drawings, photographs and detailed assembly instructions.

Catalog # Description

TVR1A	Ready to assemble steam engine kit
TVR1A-FA	Fully-assembled ready to run (Please allow 2-3 weeks for delivery on fully assembled engines)
CFLY	1 3/4" Zinc-Aluminum Cast Flywheel
MFLY	1 3/8" Brass Marine Flywheel

GRAHAM INDUSTRIES PO BOX 15230 RIO RANCHO, NM 87174-0230 (505)897-1212 (505)715-4527 24hr FAX
E-mail: sales@grahamind.com Internet site: www.grahamind.com