## MAGNUM-D's MEAN HIGHER PERFORMANCE

> Centuri's Magnum-D engines open up new possibilities in model rocket performance for the rocketeer. These powerful engines are equal to two C engines, and this means you can fly bigger rockets higher and faster.

In the early years of model rocketry, it was possible to fly large rockets only with combinations of small engines. Multi-staging and clustering were popular techniques for improving model rocket performance. Although these techniques worked well, they were not as reliable as a single larger engine. Centuri's Magnum-D engines mean model rocketeers can fly large models reliably, without having to resort to staging or clustering.

When designing $D$ engine models from custom parts, it's important to keep in . mind the basic rules about stable rockets (See Centuri technical report TIR-30). An extra measure of stability should be designed into every D model. The models should be streamlined and not have many parts that extend far away from the model, since liftoff accelerations are higher and these parts may break off.

When flying D birds, you'll need a larger flying field than usual since the rockets will go higher. Also remember that recovery systems open at higher altitudes and rockets are more subject to drift. Be sure to follow the HIAA-NAR Safety Code when flying all model rockets.

You can design your own D engine model rockets using


The new Magnum Jayhawk: designed for high performance Magnum-D engines.
the new custom parts Centuri is offering. Our new ST-9 body tube is an exact fit for D engines, and is ideal for engine tubes in engine mounts. Centuri offers new engine mounts for mounting Mag-num-D engines in our standard ST-13, 16, and 20 body
tubes. We're also offering nose cones for our new ST-9 so you can use it with the new regular engine adapter engine mount to make standard model rockets for use with regular Centuri Enerjet engines.

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## DON'T MISS AN ISSUE. . .

Rocket Times is now published four times per year. In order to receive each issue, and to get in on mailings with exciting special sales and offers you must be an active Centuri mail-order customer. This requires you to have placed an order for Centuri merchandise within the past four months.

Remember, in addition to the great bargains described in this catalog, every Centuri order receives a free T-shirt
iron-on. There are four different types of these 2 -color iron-ons, and we'll pick one at random and include it in every mail order. Be sure to collect all four.

If you would like to see additional features in Rocket Times, drop a line to Editor: Rocket Times, PO Box 1988, Phoenix, AZ 85001. We'll read each suggestion and who knows, maybe yours will be used!

PARTS FOR "D" ENGINE MODEL ROCKETS. . .

ENGINE MOUNTS
BONUS!
Each includes engine locks (not included in standard mounts).

CARTOON CONTEST


This issues Cartoon Contest winner is Ted Katauskas from Calunet City, II. Ted's mystery prize is a set of 3 NASA photos of the Mercury Little Joe II progran. Real Nasa photos!

Want to see your cartoon published? Just draw a funny cartoon about model rocketry and send it to the Editor: Rocket Times. Each issue we pick the one most suitable for publication and award a "Mystery Prize".

## PHOTO CONTEST



Jamie Hale of San Antonio TX is the winner of the photo contest. This carefully done photo is of the real NASA Space Shuttle riding piggyback on a 747 on its cross country ferry to Cape Canaveral.

You can enter this ongoing Photo Contest and try for the prize, a $\$ 25$

Centuri Merchandise Certificate. A winner is picked for each issue of Rocket Times. Send in your best photo about model rocketry or real rocketry addressed to: Photo Contest, Rocket Times. Black and white photos are best and be sure to try for good contrast and sharp focus.


See current catalog's Rocket Times for rules on this permanent contest.

F-150 HURRICANE Designed and built by Phillip Thompson, Oak Ridge, TN.
Phil chose a Saturn V as his prize.




