



**Centuri**

P.O. Box 1988 Phoenix, Arizona 85001

HI THERE!

We at Centuri are real proud and happy to offer you our new 1971 Model Rocketry Catalog together with this special announcement folder.

At Centuri you'll discover many advanced concepts in Model Rocketry — above all ENERJET! ENERJET ROCKET ENGINES crash through the old power ceilings and enable you to fly your rockets higher, truer and faster than any ROCKET ENGINES ever built! You'll discover new rocket kits designed to look and operate just like the SPACE SHUTTLE program currently being developed by NASA. You'll find Centuri's new SERVO LAUNCHER which uses only 3 volts of battery power to operate and employs a new pneumatic switch system. Also, you'll see greatest selection of Custom Designing Rocket Parts ever assembled — — — together with a FREE Design Manual.

We know you'll be eager to read about and join the CENTURI AEROSPACE TEAM and receive the many benefits that we are showing you here with lots more to come.

So settle back — read this folder and the CATALOG — cover to cover and see why CENTURI proudly lives up to its' motto —

*"The Quality Leader in High Flying Rockets"*

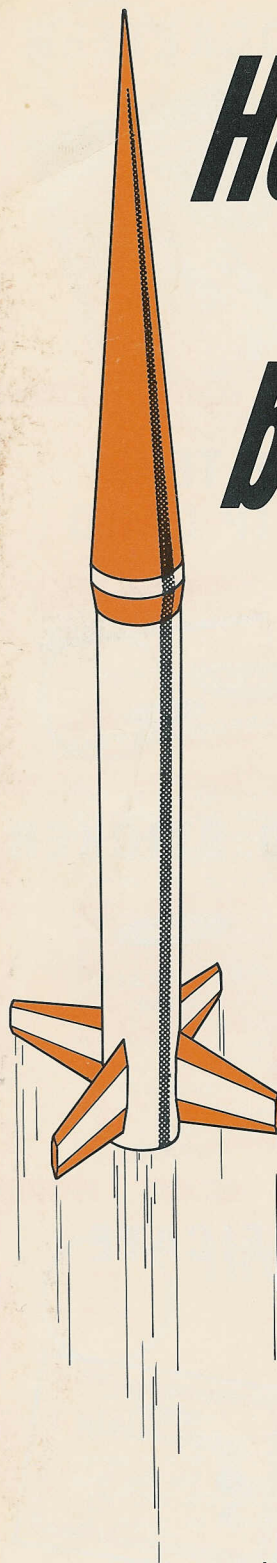
Your friend,



Leroy E. Piester, President

# Here's the

# big **D**



*every  
Model  
Rocketeer  
has been  
waiting  
for!*

A SUBSIDIARY OF CENTURI ENGINEERING CO.

**NOW! YOU CAN ELIMINATE CLUSTERS OF LOW POWERED ENGINES WITH A SINGLE "D" ENGINE OF THE SAME DIAMETER!**

*The amazing!*

**ENERJET**\*

**COMPETITION CONTEST WINNING  
ROCKET ENGINES**

**A NEW DIMENSION IN MODEL ROCKETRY**

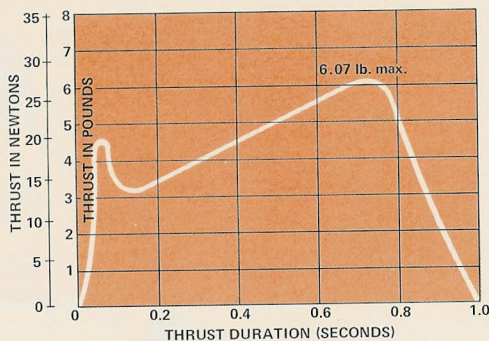
For years, model rocket propellant has been technically limited to a specific impulse of 80 to 90 sec. Now, however, ENERJET offers you a specially developed composite propellant with a specific impulse of 185 to 200. In other words, ENERJET propellant delivers nearly 2½ times more power per ounce of fuel.

What does the ENERJET concept mean to you, the contest minded rocketeer? It means lifting large scale birds with a single 'D' engine no larger in diameter than a standard 'A', 'B', or 'C' engine. Now you can eliminate clusters of lower powered engines — — — thus greatly improving your chances of a stable, straight-up flight. The ENERJET 'D' means "insurance" for a perfect flight and a "first place" in contest events. It means that you can now send those sport rockets higher than you ever dreamed of — — — without having to change engine mounts.

Centuri's ENERJET 'D' is truly a professional engine scaled down to model rocket size. The heart of this engine is the specially developed high energy composite propellant which uses a new space age plastic type binder.

The unique 'D' engine casing is formed of newly developed high strength, high temperature resistant, filament reinforced, plastic compound.

Even more amazing is the special engineered exhaust nozzle which withstands the tortuous temperatures and exhaust velocity of nearly 6,000 feet per second. A nozzle extension helps to fully form the exhaust plume and properly expand the exhaust gases for best operating efficiency.



**SHOWN  
ACTUAL  
SIZE**



**1 ENERJET "D" ENGINE  
EQUALS 4 "B" type engines**

**ENERJET 'D 21' ENGINE SPECIFICATIONS**

|                   |             |                  |                      |
|-------------------|-------------|------------------|----------------------|
| Total Impulse     | 4.48 lb-sec | Specific Impulse | 187 lb-sec per lb.   |
| Average Thrust    | 4.7 lb.     | Exhaust Velocity | 5980 ft. per sec.    |
| Thrust Duration   | .95 sec.    | Time Delays      | 4 sec, 7 sec, 10 sec |
| Maximum Thrust    | 6.07 lbs.   | Overall Length   | 3.36"                |
| Initial Weight    | 1.12 ounces | Diameter         | 0.695"               |
| Propellant Weight | .024 pounds |                  |                      |

Catalog Numbers & NAR Code D21-4, D21-7, D21-10

**\$120 ea. 3 for \$295**

Includes special igniters.

Specifications subject to change.

**HERE'S WHY YOU SHOULD JOIN THE...**



# AEROSPACE TEAM

Every Model Rocketeer is enthusiastically interested in what is new and going on in the world of Model Rocketry. New Developments, New Designs and New Manufacturing Processes make Model Rocketry the fascinating hobby that it has become and is one of the main reasons why Model Rocketry is the fastest growing hobby in America today.

That's why CENTURI has developed the CENTURI AEROSPACE TEAM. Every CENTURI AEROSPACE TEAM MEMBER can participate, and will be kept informed of all the latest developments in Model Rocketry.

Through our American Rocketeer you will see and read of the latest model rocketry news. We welcome your letters, photos, design ideas, and comments and will publish and answer all those we can.

## HOW TO JOIN THE CENTURI AEROSPACE TEAM!

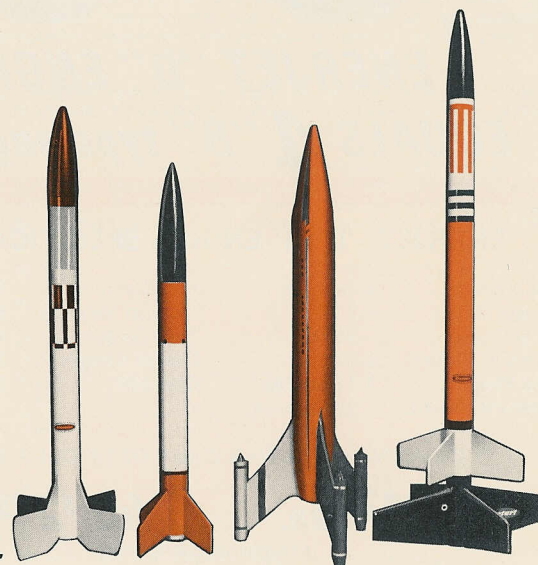
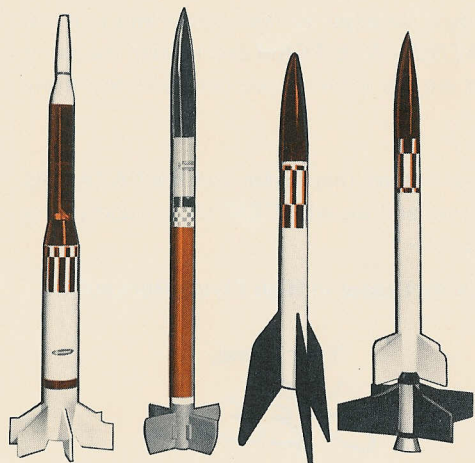
Simply send us your next order in the amount of \$5.00 or more. That's all it takes to join. Together with your order, you'll receive your complete membership packet — — including valuable Bonus Certificates.

CENTURI AEROSPACE TEAM members will receive all the latest Catalogs, Bulletins, and Flyers showing NEW and constantly improving MODEL ROCKET SUPPLIES from the CENTURI RESEARCH AND DEVELOPMENT STAFF.

In addition to this you will receive the following bonuses as CENTURI'S WELCOME to you as a proud member of the CENTURI AEROSPACE TEAM.



**BUILDING AND  
LAUNCHING MODEL  
ROCKETS IS BOTH  
FUN AND EDUCATIONAL**



# 1 BONUS CERTIFICATES

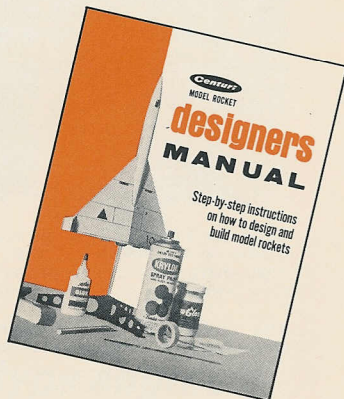
With every order you send in we will send you valuable BONUS CERTIFICATES. These are worth actual \$ when used toward purchase of additional CENTURI merchandise — either at your favorite hobby dealer or back here at CENTURI. Use them as partial payment for new supplies and kits you want. They're just like getting a big discount.



# 2 Centuri DESIGN MANUAL

Here's a 32 page Manual that contains everything you need and want to know about building and designing your own Model Rockets — from "design" to "launching".

It contains dozens of illustrations and PHOTOS and shows DESIGN TIPS, CONSTRUCTION TECHNIQUES, STABILITY, HOW TO LAUNCH and FLY your own ROCKET, RECOVERY SYSTEMS, MULTI-STAGING, FINISHING TIPS, BOOST-GLIDERS, ENGINE SAFETY and many other helpful suggestions which will enable you to completely enjoy the rewarding experience of CUSTOM ROCKET DESIGNING.



# 3 IRON-ON SHIRT PATCH

A colorful Team Emblem for your T-shirt or shirt — easily irons on and remains permanently. You'll be proud to wear the CENTURI Insignia and get the recognition of other CENTURI ROCKETEERS. You'll be proud to identify with them.



# 4 AMERICAN ROCKETEER

Published periodically by CENTURI, it contains articles, photos, design plans and news of what is new in Model Rocketry. You will receive FREE COPIES of the American Rocketeer as part of your CENTURI AEROSPACE TEAM Bonus and your continuing purchase of CENTURI Supplies.



# 5 AEROSPACE TEAM MEMBERSHIP CARD

For your personal use, this wallet size, double card identifies you as a member of the CENTURI AEROSPACE TEAM and also includes the 14 points of the MODEL ROCKET SAFETY CODE. Use it to identify yourself with other Model Rocketeers and to your local Hobby Dealer when making additional purchases.



# 6 FIELD BOX I. D. STICKER

Colorfully designed FIELD BOX Personal identification label. It identifies you as a member of the CENTURI SPACE TEAM and has a place for your name and address. It can also be used on any of the CENTURI Outfits. Use it on school notebooks, brief cases, bicycles, etc.



# 7 WALL CERTIFICATE

A beautiful lithographed CERTIFICATE with your name inscribed and ready for framing. Display it in your room or in your club meeting room.

Simply fill in the names and addresses of four friends (who are not already Centuri rocketeers) but who would like to become a Centuri Aerospace Team member. Then, send the form in with your first order and you'll receive the CERTIFICATE when your order arrives.

