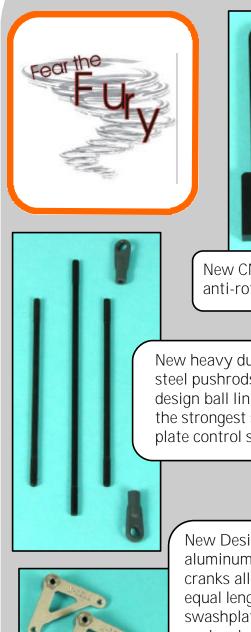
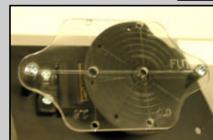
More Standard Features of the Fury Tempest 3D



New CNC aluminum anti-rotation guide New heavy duty 2.6mm steel pushrods and new design ball links ensure the strongest swashplate control system

> New Design CNC aluminum bellcranks allow equal length swashplate pushrods and are part of the finest CCPM control system



New Drill Guide simplifies servo arm setup - for Futaba/ JR and compatible servos

Proudly Made in the USA

miniature aircraft usa

31713 Long Acres Drive * Sorrento, FL 32776 Phone 352-383-3201 * Fax 352-383-3204 E-mail: minair@earthlink.net * Website: www.miniatureaircraftusa.com

Technical Data

verall Length	1378 mm
verall Height	479 mm
lain Rotor Diameter	Up to 1600 mm
ail Rotor Diameter	Up to 309 mm
lade Lengths Supported	680-710 mm
/R Gear Ratio	4.66:1
ollective Pitch Range	25 Degrees
otal Weight	4.53 Kg/10 lbs
ngine Specifications	.7591 cu. In.
tandard Gear Ratio	7.91/8.18/8.36/8.45:1
ptional Gear Ratios	
7.25:1 7.50:1 7.66:1 7.75:1	12 tooth pinion

New design clutch/driver assembly uses 22mm sealed bearing and threaded bearing blocks to prevent bearing pre-load





I he XCell Fury Basic, Expert and Extreme models, have set the industry standard for quality, performance and value. Now the stan-

dard is about to be raised again!

Introducing, the new



Over 2 years in the making, we've created the most adaptable model helicopter available on the market today. Almost every aspect of the Tempest can be easily adjusted or tuned to your particular flying style.

Gear ratios, head damping, bell mixer ratios, tail rotor output direction, leading or trailing edge main rotor blade control, flybar weights and flybar lengths are just some of the things that can be customized as you want and changed at any time.

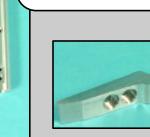
Almost every aspect of the model has been improved. Made from only the finest materials, the Tempest is incredibly strong and durable and will continue to prove that the Fury line of models are the best value in the industry!

Have you imagined yourself flying beautiful smooth 3D maneuvers just like the masters? Well the Tempest 3D is the machine for you. Its the most controllable model we've ever built! Its stability in hover and tracking through graceful 3D maneuvers is unmatched!

Standard Features of the Fury Tempest 3D

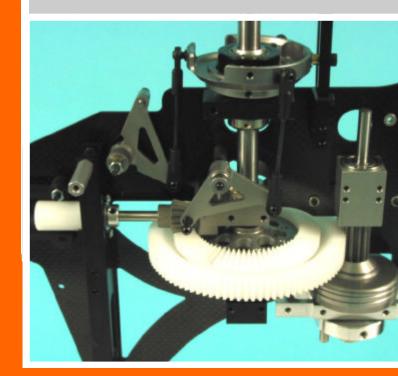


Precision machined rotor head blocks ensure perfect alignment and are easily assembled

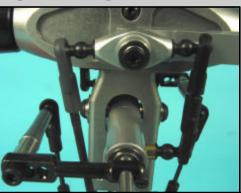




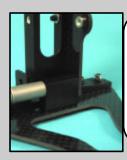




Phone 352-383-3201 * Fax 352-383-3204



New design adjustable flybar control arms, allow 3 different flybar mix ratios. Also specially designed flybar tube and bell mixers allow you to choose just the right setup for your personal flying style.



New Design Front tail boom support system with 33" Ultra Stiff tailboom

All new CNC milled G-10 frames offer improved servo positioning.

4 bearing support for main shaft

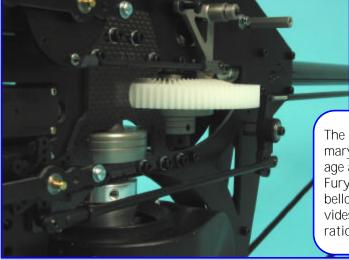
One piece lower main bearing block ensures perfect alignment of tail rotor drive gear

New design clutch driver bearing block with larger sealed ball bearing

Gear ratios easily changed using ratio change kits

The Fury Tempest 3D Tail Rotor Control System

- New Extreme Duty T/R Hub & bearings standard
- Heavy Duty blade grips with both radial and thrust bearings
- CNC machined aluminum T/R gearbox
- Proven design pitch control mechanism
- CNC ball-bearinged pivoting control links
- Graphite Ultra Stiff Tail boom 33"
- New Improved torque tube for heavy t/r drive loads
- Torque tube supported by double ballbearings
- Dual Carbon Boom Braces

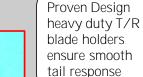


The servo and primary control linkage are the proven Fury design. Front bellcrank now provides a 1:1 mixing ratio

Check Out These Features!

Proven Extreme Tail Rotor Control system ensures strong and accurate tail rotor control. This precision system will allow gyro systems to operate at maximum effectiveness.



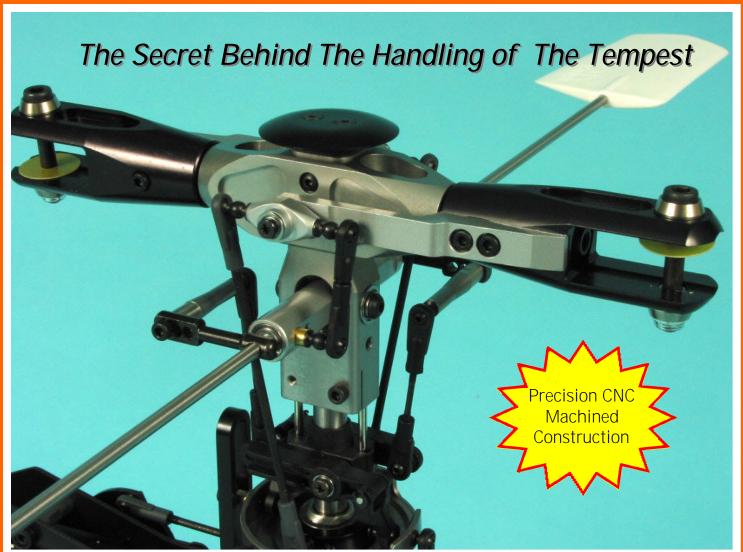






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The Fury Tempest 3D Rotor Head System

Fully CNC machined 3D style rotor head which features: Precision two piece head block Increased rotor head diameter - 195mm

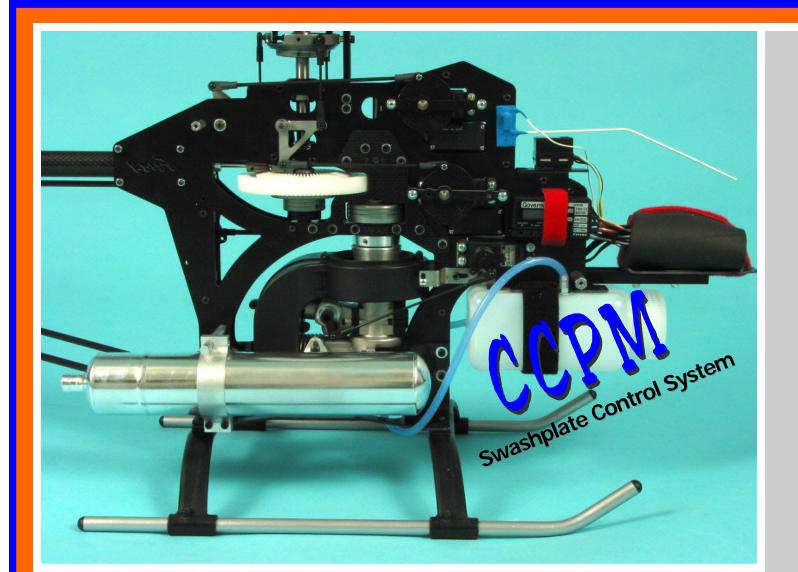
- 5mm blade bolts
- Simple, yet very precise construction
- Full floating axle with variable damping
- Variable bell mixing options

- Easily built and repaired
- Accepts up to 710mm rotor blades
- Proven 3D flybar paddles
- New 2.6 mm cyclic pitch control rods

New design flybar seesaw allows variable hiller ratio

Adjustable flybar control input - 3 positions

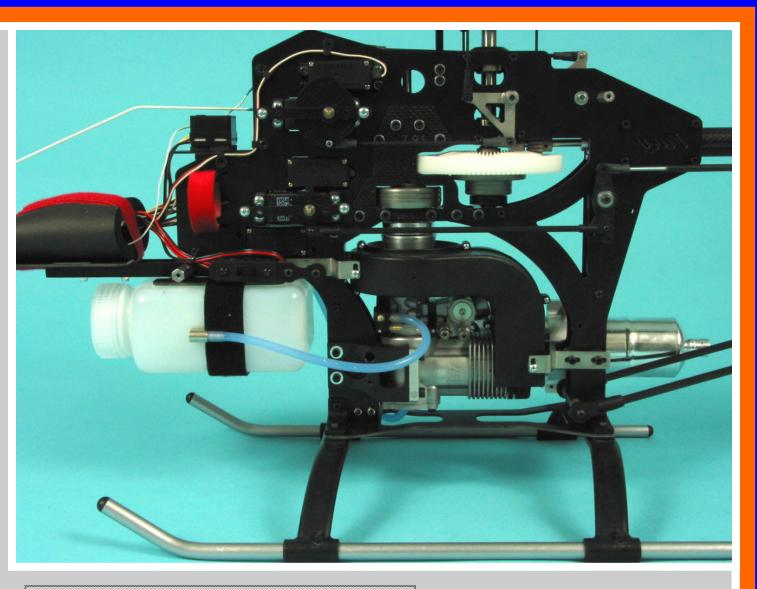
Increased flybar travel with no binding



Standard Features of the Main Mechanics:

- Designed for .75 thru .91 size engines
- Double-bearing, upper main shaft block
- Triple main shaft support bearing blocks (4 bearings)
- 11 or 12 tooth pinion gear
- Factory pre-set gear meshes
- Mainshaft retained by Split collar clamps
- CNC aluminum anti-rotation guide
- Self-adjusting front boom clamps
- New 2.6 mm steel pushrods and links
- All CNC aluminum metal washout assembly
- New fully linear swashplate & servo control geometry PEM Nuts attach points pre-installed
- Improved CNC all metal swashplate

- New design CNC aluminum bellcranks
- 16 oz fuel tank predrilled
- 90 degree fuel fitting
- CNC Aluminum Self-Aligning Cooling Fan
- Gear Ratios Easily Changed using Ratio Kits
- 3 bearing start shaft block 3mm tapped
- Adjustable Center of Gravity
- Machined Aluminum Landing Gear Braces
- New Design CNC Milled G-10 Frames
- New Additional frame cross-bracing
- CNC Machined engine mounts/support block



- New Design Tempest Canopy Gel Coated Fiberglass
- Four color decal striping kit
- New CNC aluminum boom support block
- New CNC aluminum clutch driver support block
- Clutch/Driver now supported by 22 mm sealed bearing
- All moving points supported by ball bearings
- CNC aluminum Split Gear Sprag Autoration hub
- New equal servo throw ratio for all swashplate controls
- Self-Aligning clutch/driver assembly
- 100% machined Teflon Impregnated main gear
- Hex head machined control balls
- New design machined G-10 lower frame support
- Main mechanics built on one frame for easy accessibility

