

Last but not least we'd like to give you a report on our new "Competitor" copters. We have taken nearly 18 months to develop this machine. Our goal was to at least equal the "Hell-Boy's" aerobatic performance but give better quality and at a lower price. When, and only when, we felt we'd achieved this did we start putting kit out in the field. We selected about half a dozen top fliers to test "Competitor" for themselves. The results have astounded us. Not only do all of the fliers feel we have produced the best quality of any machine on the market today but the flight performance of "Competitor" is now generally acknowledged to be superior to all the other R/C helicopters which you can buy. One well known flier said "...three times as easy to fly as the "Hell-Boy". All the fliers who tested the "Competitor" have said "superior by far in rolls and also in autorotation". Autorotation equipment is standard and because of the high quality gear train, the heavy rotor blades and the triple bearing autorotation clutch, autorotations with "Competitor" are now no longer a maneuver which only the expert can do.

Easy to say all of the above. The proof - ask any flier who saw Bill Curtis fly "Competitor" at Casey, Illinois. Or any California flier who saw Robert Gorham fly one at the Burbank Schluter Cup. Talk to John Smith up in Seattle who astounded nearly 1000,000 people at a recent air show with his "Competitors". More proof - while at its very first aerobatic contest, the Canadian Helicopter Nationals, Rene Dikkes flew his "Competitor" to 1ST PLACE EXPERT, "Competitor" also took 3RD PLACE EXPERT. Rob Brown flew his "Competitor" to take 1ST PLACE NOVICE, showing that it is good for the beginner, too. And this kit has only been available for a few months. We include some photos and drawings of "Competitor" and a table of some of its outstanding features.

If you're now hovering and flying "Cricket" and want to move up to the very best there is - ask your dealer about a "Competitor" for yourself.

- "Shorty 40" at \$329.95 (autorotation can be added)
- "Pro" model (50/60 power) at \$399.95 (autorotation standard)

Both models have full collective pitch and 'Bell/Hiller' mixing as standard.

We'll try not to be so long with Bulletin #7. Till then.

COMPETITOR

for 1982

TECHNICAL FEATURES



THE 'PROFESSIONAL COMPETITOR 50/60' SUPER CUSTOM HELICOPTER

TECHNICAL SPECIFICATION

MAIN ROTOR SPAN	53 INCHES
TAIL ROTOR SPAN	11 INCHES
OVERALL LENGTH	48 INCHES
CONSTRUCTION	ALL METAL ALUMINUM & STEEL

WEIGHT -	
READY TO FLY	8 POUNDS
ENGINE SIZE	50/60 CU. IN.
AUTOROTATION	STANDARD
MULTI-SERVO OPERATION	
FOR ELECTRONIC MIXING	STANDARD
ALL BALL BEARING TAIL	
CONTROL SYSTEM	STANDARD

Altogether a highly integrated design using all the latest engineering design practices plus high quality bearings, shafts and castings.

'COMPETITOR' is a great new R/C helicopter for just fun flying and 'Sunday' aerobatics. It is also a finely tuned machine which can outfly all its competition - and win for you.

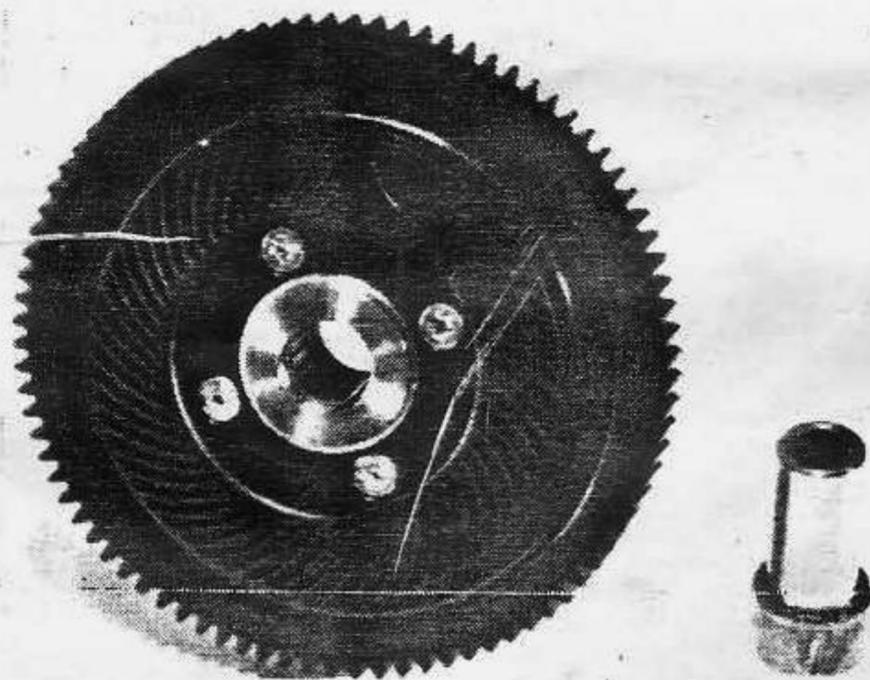
If all these features of 'COMPETITOR' are not enough to convince you - note that the very high quality replacement parts are generally priced lower than similar 50/60 powered machines available today.

The 'COMPETITOR', as its name implies, has been produced as a fully aerobatic competitive R/C helicopter.

Up until now, features such as autorotation clutches, five servo installation for electronic mixing, large collective throw for inverted flight - - - have been add-ons or custom conversions. The 'COMPETITOR' has all these features as standard and at a price lower than all other competitive machines cost without them.

The 'COMPETITOR' has a very light weight because of the advanced side frame design. It weighs only 8 pounds with a '50' engine, header pipe and ready to go. No wonder it is a very fast performer with a '50' sized engine. Now, with a '60' better be an expert flier!

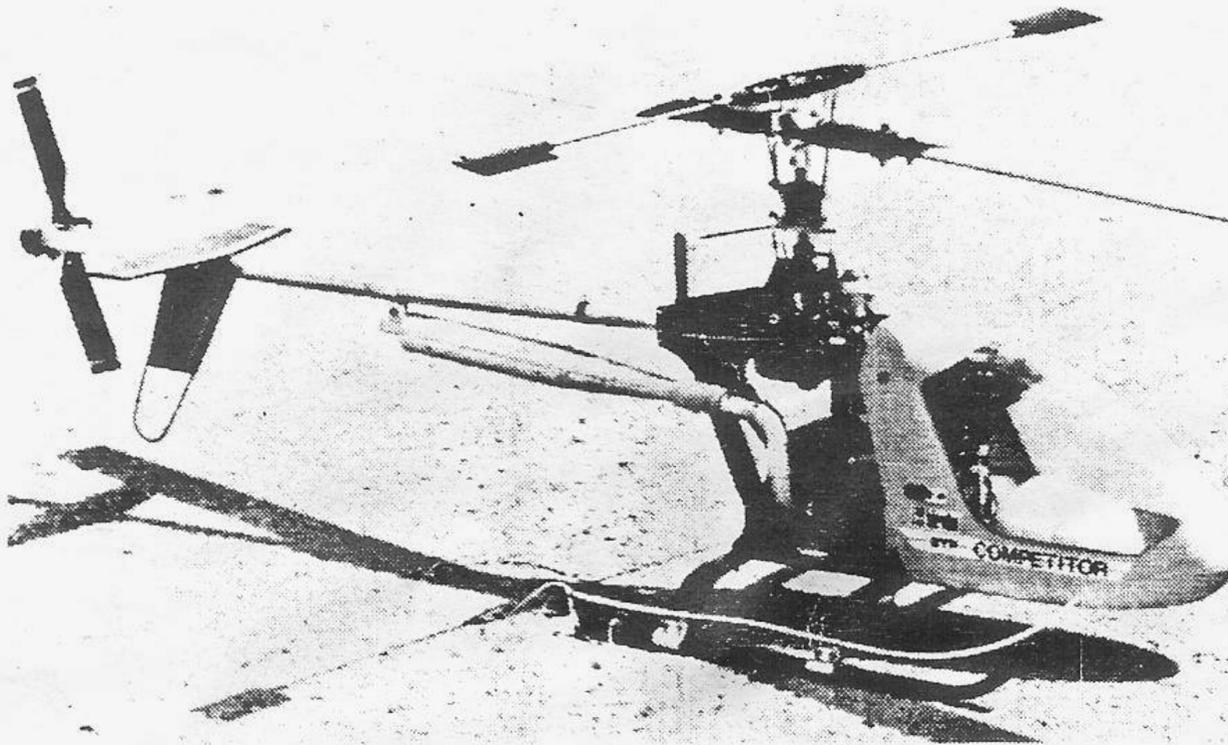
But 'COMPETITOR' also has many other features such as available stabilizer bars of different lengths and adjustable stabilizer weights so that its highly aerobatic performance can be tamed down for training and practice.



Note the quality of the autorotation clutch which is STANDARD on the 'COMPETITOR'. Replacement gears less than \$10 too!

COMPETITOR

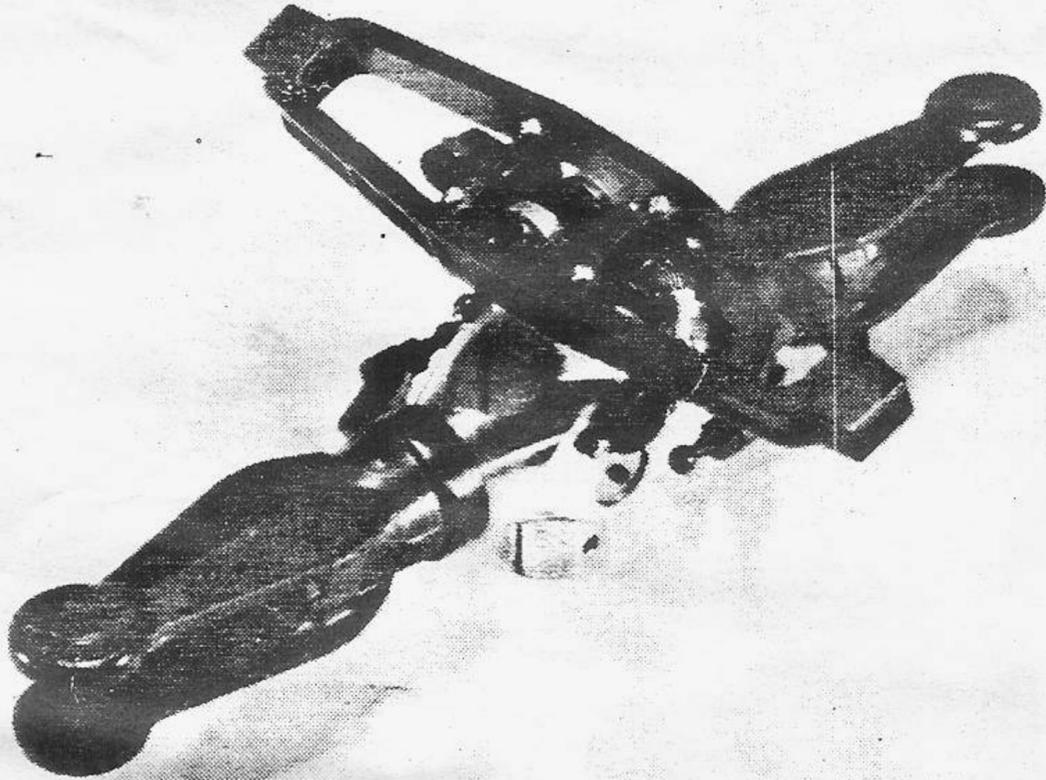
for 1982



'SHORTY - 45'

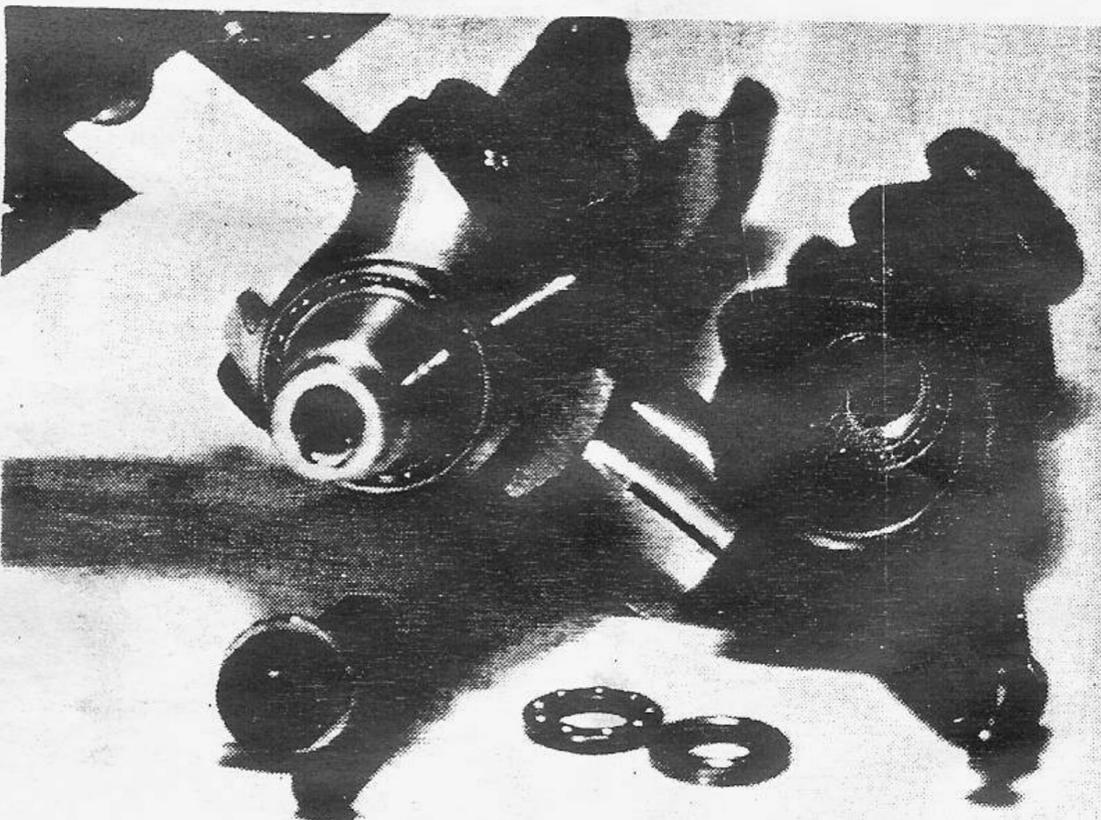
For transitional flying for beginners who are ready for something more aerobatic - - - consider the 'COMPETITOR 45'. This R/C helicopter has a custom rotor head with triple bearings, collective pitch and full Bell/Hiller mix. It can be upgraded, at a very low cost, to a 'Professional COMPETITOR' when you are ready.

The 'Shorty 45 COMPETITOR', though more docile than the 'Professional', will still loop and roll, etc.



The world's finest R/C helicopter rotor head.

The 'COMPETITOR 50/60' is fitted, as a standard feature, with a highly accurate, but rugged, rotor head of an entirely new design. The rotor center is machined out of solid aluminum stock as is the main hub. Compare this with helicopters whose main rotor hub is constructed from thin steel plates, screwed together.



The blade holders are also machined and rotate on two high quality ball bearings plus a thrust bearing (another first). Compare with helicopters using one ball bearing and one needle bearing only. Centrifugal loads need thrust bearings and 'COMPETITOR' has them. In fact, both main and both tail blade holders have ball and thrust bearings. And how about double ball bearings in the pitch plate of the tail control system!

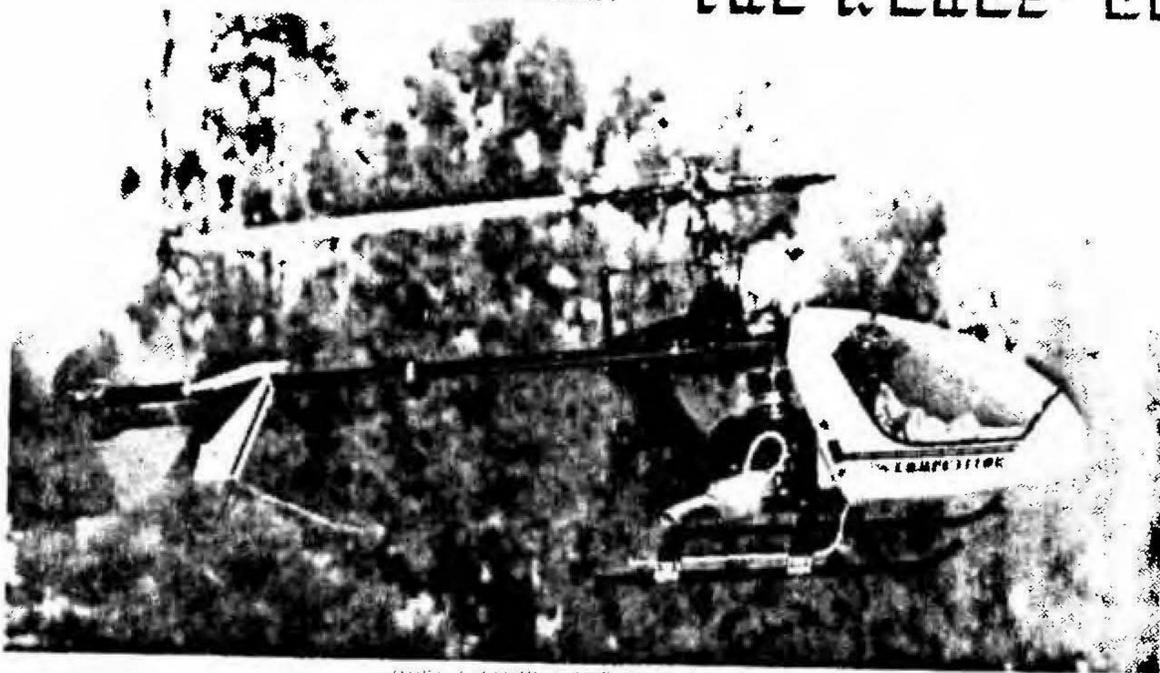
'COMPETITOR' is new and is of a new, high standard of quality.

GMP PRESENTS
GORHAM MODEL PRODUCTS

COMPETITOR

THE WORDS' OUT

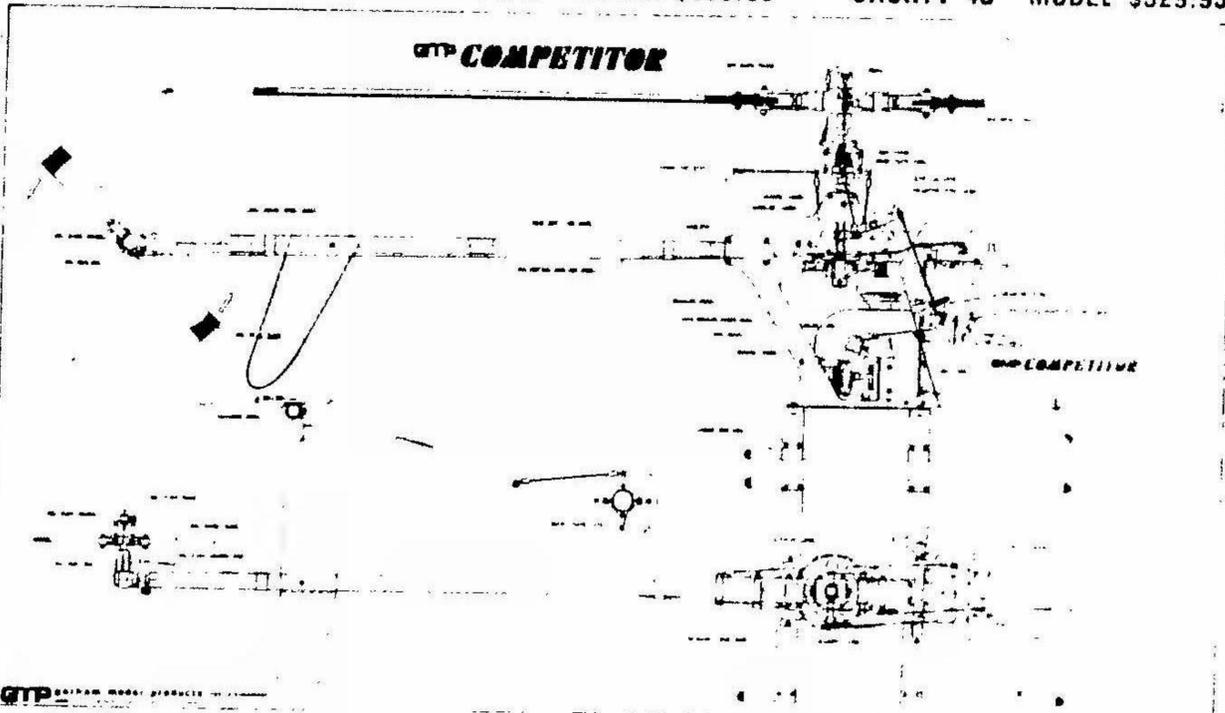
AT LAST YOU CAN OBTAIN A 1982 SUPERIOR QUALITY, FEATURE LOADED, DYNAMIC PERFORMING, CONTEST WINNING R/C HELICOPTER AT A LOW COST. LOOK AT THE RESULTS OF ITS FIRST CONTEST — THE 1982 CANADIAN NATIONALS — AND LOOK BELOW AT THE HIGH QUALITY CONSTRUCTION AND STANDARD FEATURES — THEN CALL YOUR HOBBY STORE — BUT HURRY — **THE WORDS' OUT**



GMP COMPETITOR FEATURES

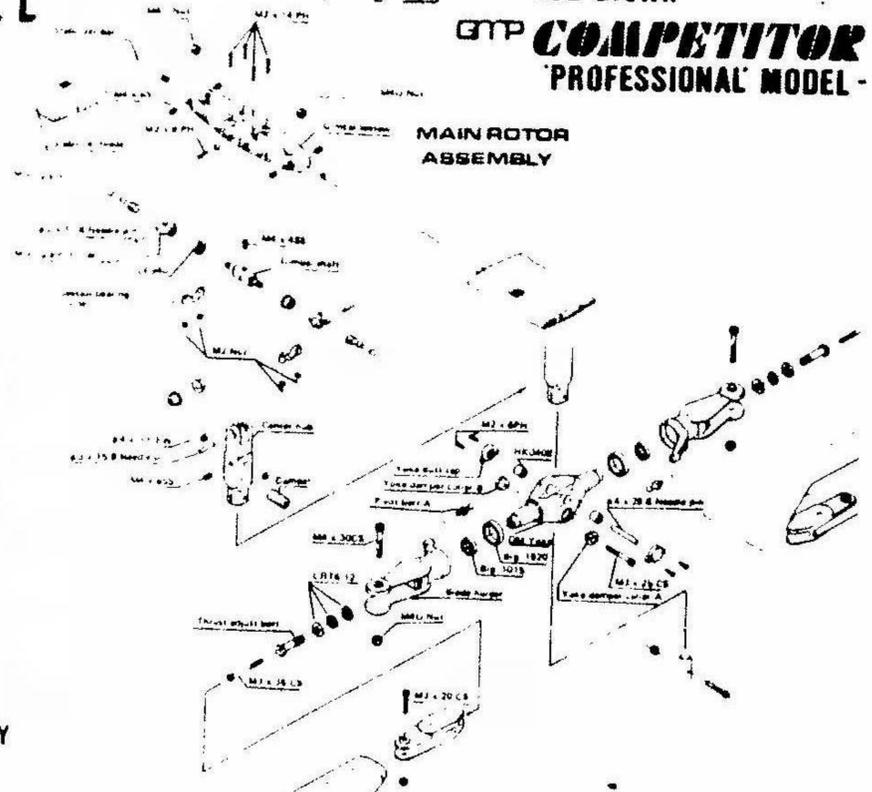
"PRO" MODEL	SHORTY "40"		"PRO" MODEL	SHORTY "40"
COLLECTIVE PITCH	STD	STD	SPIRAL BEVEL GEAR TAIL DRIVE	STD
BELL/HILLER AEROBATIC HEAD MIXING	STD	STD	DUAL SPIRAL BEVEL GEAR TAIL GEARBOX	STD
TRIPLE BALL BEARING MAIN BLADE HOLDERS	STD	STD	INVERTED FLIGHT CONTROL RANGE	STD
DUAL BALL BEARING TAIL BLADE HOLDERS	STD	STD	TEMPERED ALUMINUM LANDING GEAR	STD
DUAL BALL BEARING PITCH PLATE	STD	STD	MACHINED SOLID ALUMINUM ROTOR HEAD	STD
AUTOROTATION	STD	OPTION	BLACK ANODIZED FRAME, LANDING GEAR, ETC.	STD
TRIPLE ROLLER BEARING AUTOROTATION GEAR	STD	OPTION	TOP CONE START (NO BELT)	STD
ENGINE SIZE	45/60	40/50	REAR GLOW PLUG ACCESS	STD
STEEL CLUTCH	STD	STD	FULL AEROBATIC PERFORMANCE	AMA/FAI
PRE-LINED/MACHINED CLUTCH BELL	STD	STD		
ALL PLY DIE CUT	STD	STD		

SUGGESTED LIST PRICE: "PROFESSIONAL" MODEL \$399.95 — "SHORTY 40" MODEL \$329.95



- COMPETITOR — 1st Place Expert
Rene Dikkes
- COMPETITOR — 3rd Place Expert
Roger Goulet
- COMPETITOR — 1st Place Novice
Rob Brown

GMP COMPETITOR
"PROFESSIONAL" MODEL



LOOK AT COMPETITOR'S ROTOR HEAD
NOTE THE ONE PIECE SOLID MACHINED ROTOR YOKE —
THE ADJUSTABLE TRIPLE BEARING BLADE HOLDERS —
THE ADJUSTABLE HEAD DAMPING . . .

OTHER FINE GMP PRODUCTS:

- GMP HELICOPTER KITS**
- CRICKET "CUSTOM" KIT [#C100] uses .19 to .25 engines \$199.95
 - CRICKET "SUPER CUSTOM" KIT [#S100] GOLD AND BLACK ANODIZED with fully assembled Custom Rotor Head \$239.95
 - CRICKET - BUILT [#B100] without radio and engine \$259.95
 - CRICKET "SUPER CUSTOM" - BUILT [#SB100] GOLD AND BLACK ANODIZED w/o radio and engine [SPECIAL ORDER ONLY - ALLOW 14 DAYS] \$289.95
 - COMPETITOR "SHORTY 40" Kit [#400] fully aerobatic w/collective pitch, full Bell/Hiller aerobatic head and custom tail rotor system \$329.95
 - COMPETITOR "PROFESSIONAL" 50/60 Kit [#500] fully aerobatic competition class machine, same as "Shorty 40" with added autorotation capability and custom machined rotor head \$399.95
 - HUGHES 300C Kit [#H300] uses .25 to .40 engines \$249.95
 - HUGHES 300C CONVERSION Kit [#HC300] for CRICKET \$ 99.95
- HIROBO SCALE KITS**
- BELL UH-1B "IROQUOIS" Kit [#702] \$489.00
 - SA-315 "LAMA" Kit [#701] \$475.00
 - "GAZELLE" Kit [#704] \$549.00
 - BELL AH-1S "TOW COBRA" Kit [#705] \$525.00
 - BELL 206 "JET RANGER" Kit [#703] \$489.00
 - BIG BELL "47G" Kit [#700] complete with gas engine, 6 foot rotor span and 18 pounds weight \$899.95
- For CRICKET**
- Gold Custom Rotor Head [#334] factory assembled w/extra S.S. bearings \$ 34.95
 - Aerobatic Head System [#335] with Gold Custom Head, Paddles and Flybar \$ 49.95
 - Forced Air Cooling System [#655] with Fan, Flywheel and Shroud \$ 23.95
 - NEW: MINIATURE YAW RATE GYRO - weighs 3 ounces LOW THRESHOLD - QUIETS THAT TWITCHY TAIL \$ 69.95
 - UNIVERSAL Paddles (1 pr) [#616] Provide a sparkling aerobatic performance for any helicopter \$ 4.95
- "GMP" HATS AND SHIRTS**
- Hat [#613] Competition Orange - White Logo \$ 6.50
 - White "T" Shirt [#614] Competition Orange trim and Logo \$ 7.75
 - Orange "T" Shirt [#615] White Logo \$ 7.95

GMP PRODUCTS NOW SOLD AND SUPPORTED BY OVER 700 HOBBY STORES NATIONWIDE

LEARN TO FLY The GMP WAY With 'CRICKET' - The Simplest and Best BEGINNERS R/C HELICOPTER — Still Only \$199.95

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23961 CRAFTSMAN RD, CALABASAS, CALIFORNIA 91302



The ultimate flying machine

COMPETITOR

The all-new, state-of-the-art RC helicopter that you can learn on and win with!

FEATURES

The COMPETITOR RC helicopter line has been backed by twelve months of intensive flight testing to provide the modeler with the most aerobatic and reliable RC helicopter possible. Final design and manufacture is a joint effort with the Hirobo company. COMPETITOR provides the ultimate in aerobatic capability with a stability and reliability attractive to the beginner. A wide range of engines and radios can be used. COMPETITOR is offered in two versions:

CUSTOM model— a transition machine for the modeler who wishes to move into full aerobatic performance at a low initial cost.

PROFESSIONAL model— designed to offer every feature that the competition flyer would require to enable him to enter and win national and international RC helicopter aerobatic competitions.

In the case of both versions there has been no reduction of quality to lower cost and you can be assured that you have the finest value that the industry has to offer when you buy and fly either of the GMP COMPETITORS. Both the CUSTOM and PROFESSIONAL models can be obtained with the uniquely designed autorotation clutch. When fitted with this advanced design of autorotation clutch either COMPETITOR can be autorotated (engine off) by the average RC helicopter flyer. The expert will now have a competitive autorotation capability which will enable him to hit the landing pad with remarkable precision. The CUSTOM and the PROFESSIONAL COMPETITOR line both include the following features:

- Full Collective Pitch • Bell/Hiller Aerobatic Mixing • Autorotation • Top Cone Start • Double Tail Rotor Bearings • Precision Machined Rotor Head • Triple Main Rotor Bearings - Fully Adjustable • Lightweight Structure • Fast Access Glow Plug and Engine Installation

EASY TO LEARN ON

During the development and testing program many control system ratios and mechanical items were changed or adjusted in order to achieve a very important quality in the COMPETITOR model — "balanced control". As a result the COMPETITOR will "feel" right to experienced flyers and possess that important, but sometimes intangible, quality that all RC

helicopters should have: "it feels very natural to fly". Because of this the beginner will have an easier task in learning to fly the COMPETITOR than other collective pitch helicopters. Certainly he will transition into forward flight and aerobatics at a faster rate because of the fine flight qualities that COMPETITOR possesses. Because it was designed 'right', the COMPETITOR is fast becoming very popular with the less experienced flyers.

CHAMPIONSHIP PERFORMANCE

The PROFESSIONAL COMPETITOR has the finest "championship" performance in the industry. One of the major factors in its extraordinary success is that particular emphasis has been placed on the control system of COMPETITOR in order to provide a very "tight" control. All inputs from the transmitter are immediately, consistently, and fully available at the control surfaces themselves. This is a prerequisite to fine "championship" performance. The flight response of the COMPETITOR is also very fast but very well damped and it has plenty of "control power" so that when a maneuver is commenced it can be completed without running out of control power. The COMPETITOR also will not surprise you with any unusual flight characteristics. Because of the very careful blending of response damping and control power the COMPETITOR offers you the best machine for winning national and international competitions.

QUALITY DESIGN, CONSTRUCTION AND SUPPORT

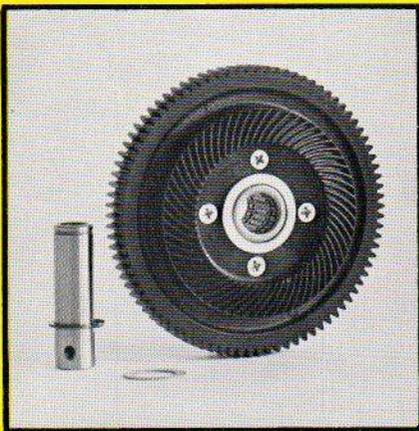
The outstanding quality of all of the components of COMPETITOR are already accepted in the industry as being the finest ever produced in an RC model helicopter. Despite this, the cost of the kits and, especially the spare parts, has been kept low. Because of its superior construction techniques the damage factor resulting from a crash of COMPETITOR is much less than any similar helicopter. This factor, as well as the low cost of parts, results in a much lower cost of ownership. The finish on COMPETITOR'S component parts is of a very high quality and most of the major aluminum parts of the structure are black anodized. Since GMP products are sold through over 700 hobby stores in the United States, the availability of parts for COMPETITOR is much better than any other make.

GMP GORHAM MODEL PRODUCTS

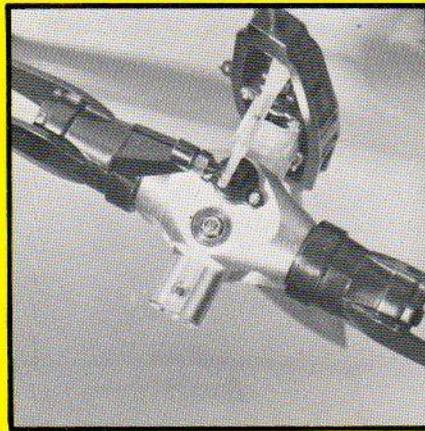
QUALITY, PERFORMANCE & SERVICE

23961 CRAFTSMAN ROAD, CALABASAS, CALIFORNIA 91302

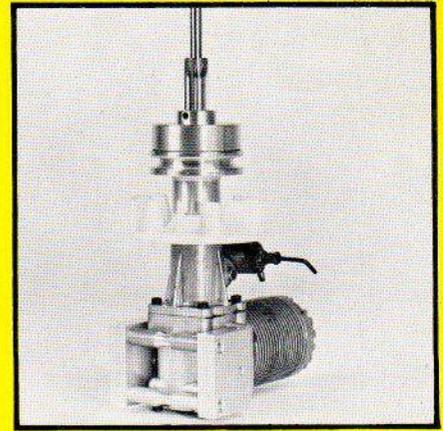
Distributed By: WEST AND OVERSEAS; HELI-CENTER WEST (213) 992-0195. EAST AND SOUTH; HELI-CENTER EAST (412) 342-5500. TECHNICAL SUPPORT FROM BOTH CENTERS.



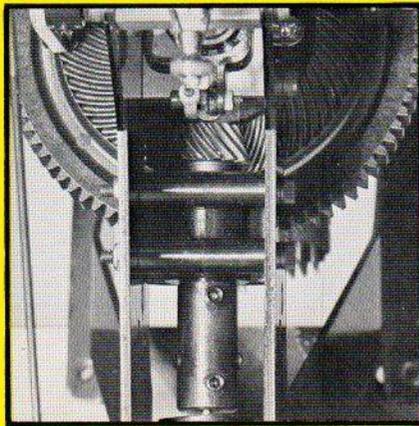
Autorotations are easy with multiple bearing clutch.



Advanced rotor head provides precision aerobatics.



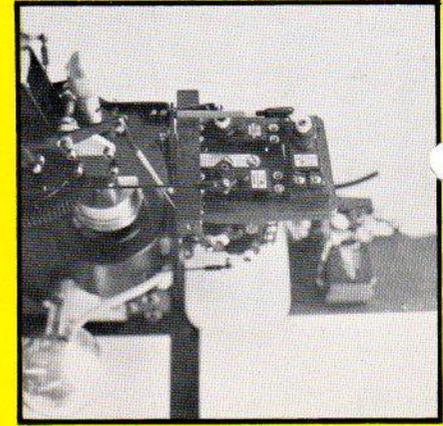
Precision clutch and engine versatility.



Spiral gear drive system for longer life.



Triple, adjustable bearings for control power.



Compact and versatile radio installation.

AUTOROTATIONS ARE EASY WITH MULTIPLE BEARING CLUTCH

The rotor blades of the COMPETITOR have a semi-symmetrical section and are generally heavier than most other 60 model rotor blades available today. This factor helps in ensuring COMPETITOR'S superior autorotation capability. In fact, many flyers have reported the ease with which the COMPETITOR can be landed after an engine failure compared with other RC helicopters fitted with so called "autorotation". The GMP COMPETITOR autorotation gear is fitted with three bearings, rather than the single one used in some other 40 and 60 powered helicopters.

ADVANCED ROTOR HEAD PROVIDES PRECISION AEROBATICS

Because the quality of the controls of any flying machine will dictate the final performance, particular emphasis has been placed on the control system of the COMPETITOR. You will find many more ball and thrust bearings in the COMPETITOR than in other similar RC helicopters. The purpose of this is to provide a very "tight" control system so that all inputs from the transmitter will be immediately and fully available at the control surfaces. This is a prerequisite to fine quality performance in any flying machine, but especially in an RC model helicopter.

PRECISION CLUTCH AND ENGINE VERSATILITY

The standard starting system of the COMPETITOR is the top cone start now demanded by discriminating American modelers. This means extra expense in the design and manufacturing of the helicopter but the inclusion of this feature greatly eases the starting process and eliminates any problems which sometimes arise when starting with a starting belt.

Although the GMP COMPETITORS have been designed to be rugged, they utilise advanced and light construction techniques so they will fly with engines ranging through a .40 to .61 cu. in. Both the CUSTOM and the PROFESSIONAL model give excellent results with a .50 Schneurle or P.D.P. engine but can also be flown with the .45 or .60 size. A good .45 cu. in. Schneurle engine will fly the CUSTOM well and is, in fact, perhaps preferable for the beginner who is just transitioning into his first aerobatic helicopter. Don't forget that you can change the size of your GMP COMPETITOR engine at any time.

The clutch is a classic one-piece design, superior and reliable. This unit is many times more expensive to manufacture than other plastic and two-piece metal clutches available today but it gives smoother engagement and drive performance and will virtually last "forever".

SPIRAL GEAR DRIVE SYSTEM FOR LONGER LIFE

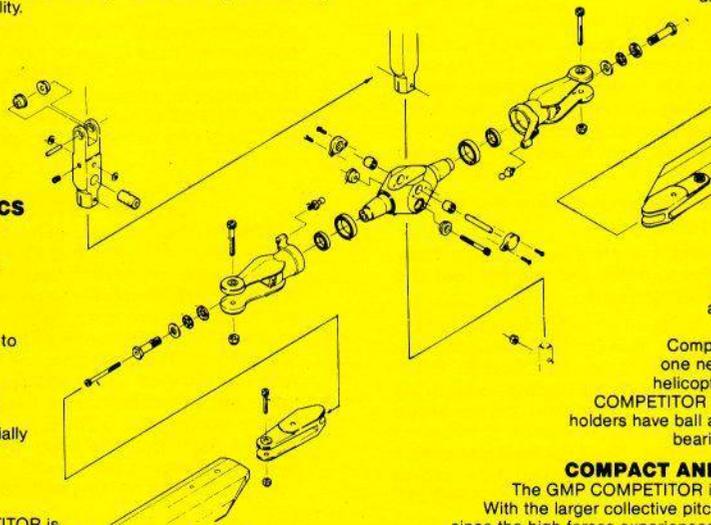
The main plastic drive gear itself is of a very sturdy construction and the tail drive gear track provides a very wide contact area because the tail drive steel pinion is of an advanced spiral hypoid design. This means less likelihood of damage to the gear. Should the gear be damaged, however, a replaceable plastic part can be easily fitted at a very low cost.

TRIPLE, ADJUSTABLE BEARINGS FOR CONTROL POWER

The blade holders and blade arms are integral and each holder rotates on two high quality ball bearings plus a thrust bearing (another first!). Compare with helicopters using one ball bearing and one needle bearing only. High centrifugal loads which helicopter blades experience need thrust bearings and COMPETITOR has them. In fact, both main and both tail blade holders have ball and thrust bearings. And, how about double ball bearings in the pitch plate of the tail control system!

COMPACT AND VERSATILE RADIO INSTALLATION

The GMP COMPETITOR is designed for either a 4 or 5 servo installation. With the larger collective pitch helicopters it is an advantage to use 5 servos since the high forces experienced in moving the collective pitch in the helicopter are best handled by a dedicated servo, leaving another one to operate the throttle. This is by no means necessary and, provided the servos are good enough, the COMPETITOR, like any other helicopter of its type, can certainly be flown well with 4 servos. Any of the inexpensive 4 channel radios available today will usually work well. When using one of the new helicopter radios, however, 5 servos are necessary if the full advantages and the features of the radios are to be used.



TECHNICAL SPECIFICATIONS

MAIN ROTOR SPAN	48 - 55 inches	WEIGHT READY TO FLY	8½ pound
TAIL ROTOR SPAN	10 - 11 inches	RADIO	4 - 5 channel
OVERALL LENGTH	50 inches	ENGINE	.40 - .61 cu. in.



THE ULTIMATE FLYING MACHINE

The all-new, state of the art RC helicopter you can learn on and win with!

CHOICE OF CHAMPIONS



1983 National Champion Robert Gorham has flown a GMP COMPETITOR for two years in the AMA Championships. He placed 2nd Expert Class in 1982 and became US National Champion in 1983.



COMPETITOR wins First Place in 1983 Tangerine Championships against many so-called 'superior' machines.

**Bob Belluomini,
Eastern US Champion
and Tangerine Inter-
national Champion**

OTHER CHAMPIONS USING COMPETITOR

Canadian National Champion - Rene Dikkes
East Coast Champion - Ralph Dalusio
Junior National Champion - Tom Dalusio
Intermediate National Champion - Ralph Geese

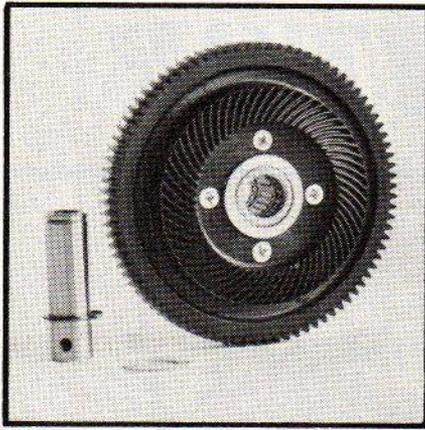
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The 'PRO' is designed to offer every feature that the competition flyer would require to enable him to enter and win national and international RC helicopter aerobatic competitions.

In the COMPETITOR 'PRO' design there has been no reduction of quality to lower cost and you can be assured that you have the finest value that the industry has to offer when you buy and fly the GMP COMPETITOR. The 'PRO' can be obtained with a uniquely designed autorotation clutch and, when fitted with this advanced design of autorotation clutch, COMPETITOR can be autorotated (engine off) by the average RC helicopter flyer. The expert will now have a competitive autorotation capability which will enable him to hit the landing pad with remarkable precision. COMPETITOR includes the following features:

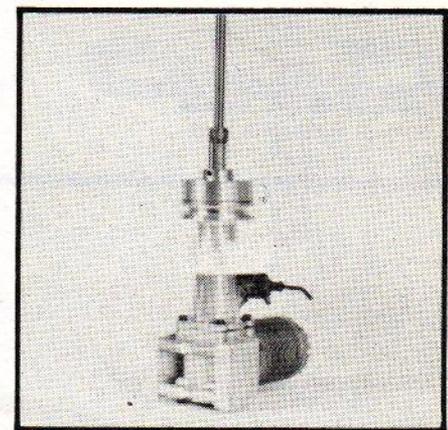
- Full Collective Pitch
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- Top Cone Start
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- Precision Machined Rotor Head
- Triple Main Rotor Bearings - Fully Adjustable
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- Fast Access Glow Plug and Engine Installation
- Autorotation - Optional



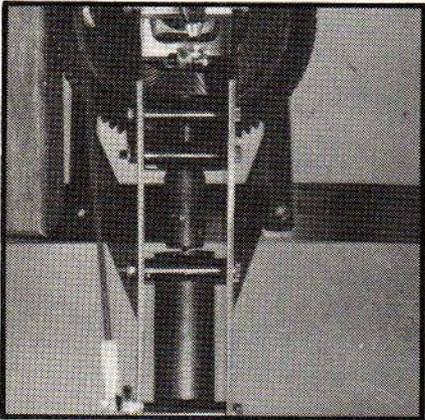
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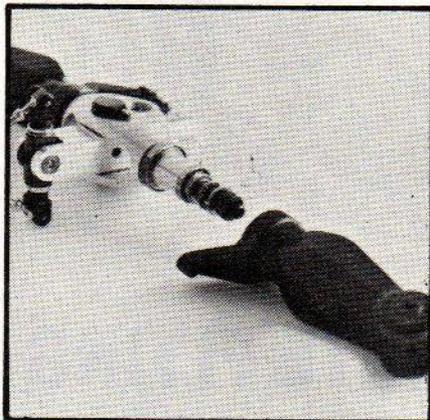
Advanced rotor head provides precision aerobatics.



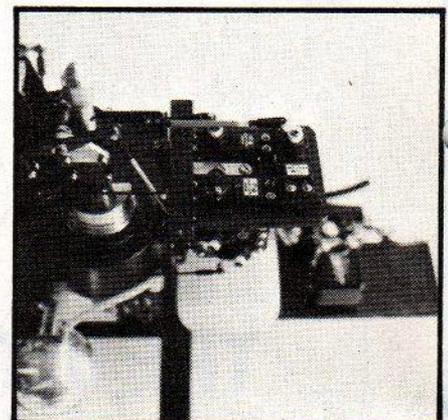
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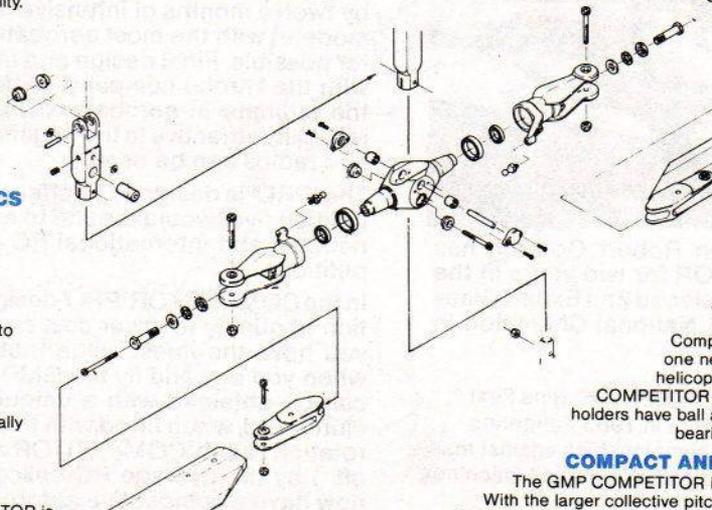
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The blade holders and blade arms are integral and each holder rotates on two high quality ball bearings plus a thrust bearing (another first!). Compare with helicopters using one ball bearing and one needle bearing only. High centrifugal loads which helicopter blades experience need thrust bearings and COMPETITOR has them. In fact, both main and both tail blade holders have ball and thrust bearings. And, how about double ball bearings in the pitch plate of the tail control system!

COMPACT AND VERSATILE RADIO INSTALLATION

The GMP COMPETITOR is designed for either a 4 or 5 servo installation. With the larger collective pitch helicopters it is an advantage to use 5 servos since the high forces experienced in moving the collective pitch in the helicopter are best handled by a dedicated servo, leaving another one to operate the throttle. This is by no means necessary and, provided the servos are good enough, the COMPETITOR, like any other helicopter of its type, can certainly be flown well with 4 servos. Any of the inexpensive 4 channel radios available today will usually work well. When using one of the new helicopter radios, however, 5 servos are necessary if the full advantages and the features of the radios are to be used.

TECHNICAL SPECIFICATIONS

MAIN ROTOR SPAN	48 - 55 inches	WEIGHT READY TO FLY	8½ pounds
TAIL ROTOR SPAN	10 - 11 inches	RADIO	4 - 5 channels
OVERALL LENGTH	50 inches	ENGINE	.40 - .61 cu. in.