



HELICOPTERS  
AIRPLANES  
CARS  
BOAT  
ACCESSORIES

RADIO CONTROL MODEL

INDEX '89-'90

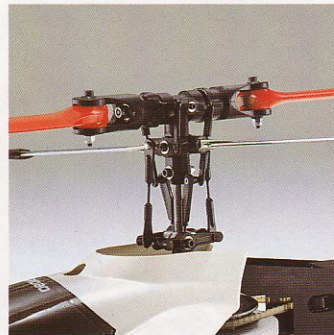
HIRROBO<sup>®</sup>



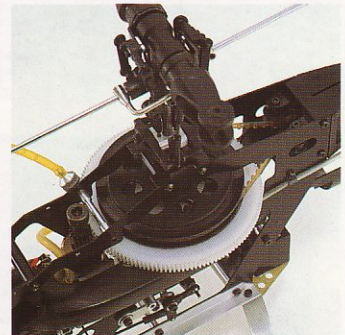
# PETIT HELICOPTER



Totally New Smaller Size Heli Powered by OS. MAX-CZ-H Engine. **NEW CONCEPTION MH-10 BK117**



● Easy control by bell/Hiller mix main rotor system.



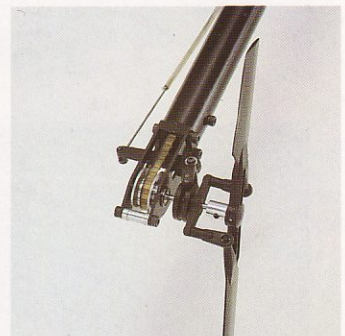
● Totally new power train & swashplate control systems by further advanced Hirobo's helicopter technology.



● Super strong engineering plastic main side frames.

\* The pictures above are not production type.

- Factory assembled, almost ready to fly.
- Heavy duty landing skids durable to harder landing.
- Light weight ABS scale fuselage.



● Reliable cocked belt tail drive system.



\* The pictures above are not production type.

Model	MH-10/BK-117 (Powered by OS. MAX-CZ-H Engine.)
Body Length	850mm
Overall Width	190mm
Overall Height	300mm
Main Rotor Dia.	900mm
Tail Rotor Dia.	185mm
Gear Ratio	9.7 : 1 : 5
Flight Weight	about 2,000g with scale body. (about 1,700g with canopy)
Jyro	Recommended.
Radio	4ch 5S (Mini size)
Part No. Price	0408-901



# SPORTS FLIGHT HELICOPTERS



ストーク  
**BB7-STORK**

- All new lightweight FFZ rotorhead designed with high stability and aerobatic capability in mind.
- High strength, lightweight, landing gear.
- High reliability, low noise, lightweight belt type tail drive system.
- O.S. EX46VF engine included with special cooling fan system.
- Cone starter system can be used (optional parts)
- Newly designed cabin for better aerodynamics and lighter weight.
- Most spare/option parts interchangeable with SST-CONDOR and SST-EAGLE.
- One piece in line clutch shaft ensures perfect alignment.



コンドル  
**SST-CONDOR**

- All new lightweight FFZ rotorhead enables super aerobatics and excellent hovering stability.
- High strength, lightweight landing gear.
- High reliability, low noise, light weight belt type tail drive system.
- C.G. balanced stabilizer paddle for maximum aerobatic performance.
- Weighted main rotor blades for higher stability and improved C.G. location.
- Main frame, drive and control mechanism identical to SST-EAGLE.
- One piece in line clutch shaft ensures perfect alignment.
- Many options parts available.
- Fully interchangeable with all SST-EAGLE spares/option parts.



コンドル  
**SST-CONDOR EX**

- All new lightweight FFZ rotorhead enables super aerobatics and excellent hovering stability.
- High strength, lightweight landing gear.
- High reliability, low noise, light weight belt type tail drive system.
- C.G. balanced stabilizer paddle for maximum aerobatic performance.
- Weighted main rotor blades for higher stability and improved C.G. location.
- Main frame, drive and control mechanism identical to SST-EAGLE.
- One piece in line clutch shaft ensures perfect alignment.
- Cone starter standard equipment.
- Many options parts available.
- Fully interchangeable with all SST-EAGLE spares/option parts.



イーグル  
**SST-EAGLE**

- Hirobo's top-of-the-line F3C competition machine.
- 1988 All Japan National F3C Competition winner.
- 1989 F3C world championship winner.
- Various high precision option parts available.





# OPTIONAL SCALE BODY

\*Exclude skid foot Assy



0404-931

- Wider & broad opening for easy maintenance.
- Strong tail boom pipe reducing rudder vibration.
- Use for: SST-EAGLE, \*BBL-HAWK, \*SST-CONDOR

ジェス **JESS**



0404-903

- Use for: SST-EAGLE, \*BBL-HAWK, \*BBC-STORK, \*SST-CONDOR, \*BBZ-STORK

NOVA (M)



0404-904

- Use for: SST-EAGLE, \*BBL-HAWK, \*BBC-STORK, \*SST-CONDOR, \*BBZ-STORK

エキュレイユ **écureuil 2 (M)**

# SCALE HELICOPTER



ベートル **VERTOL KV-107II 32/46**

- Multi Rotor Brake Fly-barless head bring realistic smooth flight.
- Tooth belt drive system brings an excellent mechanism of light-weight and high rigidity.
- Fuselage is made of F.R.P.
- Decal for U.S. MARINE and Japan Self-defense Forces are included.
- You can use any Radio sets for Heli. by mechanical mixing system.
- Rear mast has a tensioner for drive belt.
- Gear ratio / Engine: F. rotor : R. rotor / 9.625 : 1:1
- Direction of main rotor / F. rotor : Clock wise, R. rotor : Counter clock wise
- Gyro / 1~3 (Elevator, Rudder, Aileron)
- \*It's necessary to use "Gyro" for elevator (pitch control)



BELL UH-1B 1/7.4 SCALE  
**iroquois GX-25**  
イロコイス

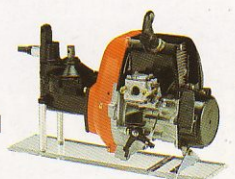
- Big size perfect 1/7.4 full scale model.
- Hirobo gasoline engine HGE-25EH with autorotation built-in new main transmission gear box.
- Totally new flexible spiral shaft for tail gear drive.
- Utmost realistic cockpit instrument panel, sliding side doors, pull open cockpit doors.



ベル **BELL 47G-2**

- Scale model of most popular full size helicopter.
- Stable flight peculiar to large sized models.
- Enough power by big span main rotor.
- Powerful 25cc ignition engine HGE-25EH.
- Scale rotor head to control stable and smoothly.

**HGE-25EH**  
0405-905





# SHUTTLE WORLD



\*SHUTTLE

シャトル シャトルダブルエックス  
**Shuttle.Shuttle XX**

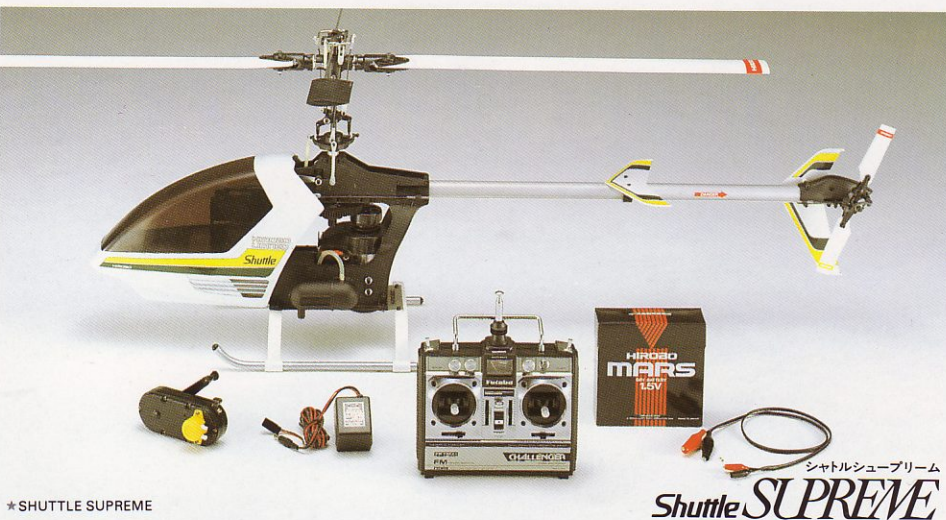
- Fully completed ready to fly.
- High power O.S. MAX 32F-H engine.
- New one piece feathering spindle, easy replacing for maintenance.
- XX model: All ball bearings (18 pcs) in control linkage part.



\*SHUTTLE ZX

[zi:] [zi:eks]  
シャトル ズィー ズィーエックス  
**Shuttle Z. ZX**

- New FZ rotorhead increase both aerobatic performance and stability.
- Includes Shuttle option parts Weighted Long Main Blades, Long tail boom and Long tail drive belt as standard equipment.
- New tail pitch control system increase rudder control and precision.
- Enlarged fuel tank now holds 230 c.c. instead of 190 c.c.
- Includes C.G. balanced stabilizer paddle for extra aerobatic performance.
- ZX model includes 20 ball bearings for precise and smooth operation.
- ZX model includes All-Metal clutch as standard equipment.
- ZX model includes slanted metal landing gear and tail boom brace.
- Conversion Set 0402-218
- Shuttle ZX Assembly kit 0402-968



\*SHUTTLE SUPREME

シャトルシューパーリム  
**Shuttle SUPREME**

- Fully completed kit with R/C system installed.
- High power O.S. 32-FHX recoil starter engine included.
- 1000mAh receiver nicad battery with charger included.
- Engine starting accessories included-Mars 1.5V battery, battery cord, fuel pump.

MODEL	Radio	Servo	Gyro	Price
SHUTTLE SUPREME	FUTABA challenger FM5NH	FP-S148	FP-G154	
SHUTTLE XX SUPREME	FUTABA FF7	S-3001	FP-G154	
SHUTTLE Z SUPREME	FUTABA FF7	S-3001	FP-G154	



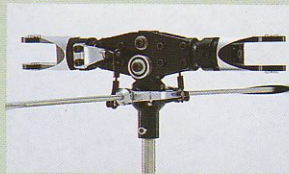








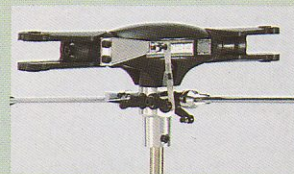
## ACCESSORIES



### SSZ Rotor Head

● Quick & sharp response. Applicable to all Hirobo helicopter with 10φ main mast.

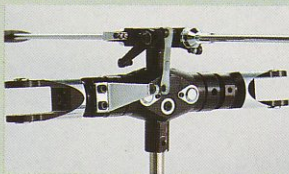
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### FFZ ROTOR HEAD Assy

● This new resin-made rotor head has been accomplished a high performance with low cost.

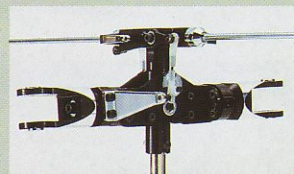
0402-215



### DDF ROTOR HEAD Assy

● This rotor head assembly is of an epochmaking mechanism by which both static and kinetic performance has been accomplished.

0404-079



### SSR ROTOR HEAD Assy

● This SSR rotor head assembly is of see-saw type in which sharp response of steering has been pursued.  
● Self-stability has been much enhanced with the coning angle of 1° degree.

0404-084



### SHUTTLE FZ ROTOR HEAD Assy

● This mechanism contributes to enhancing the flying performance and the stant ability. It is available in all the conventional types of SHUTTLE.

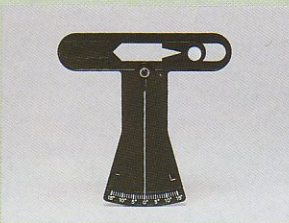
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### SHUTTLE MRB Rotor Head CONVERSION SET

● This conversion set includes MRB rotor head, main blade, swash plate, etc. which are used for remodelling SHUTTLE to three-rotor type.

0402-135



### PITCH GAUGE

● This pitch gauge is of a pendulum type which is very easy to use and can be used for measuring the pitch of various kinds of blade up to 70mm wide at maximum.

2513-019

\* Many other optional extras are available.



技術で拓く真心のクオリティ

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\* Specifications are subject change without notice improvement and modification.