INTRODUCTION

SAB has over 20 years of experience in the remote control helicopter industry. The company started manufacturing rotor blades. To date SAB has produced blades ranging from those used by 250 size helicopters all the way to blades used by large, equipment carrying models with a rotor span of over 4 meters.

The SAB Goblin idea started in 2011. From this original idea, a large range of models have been produced and are still under continuous development. The SAB Goblin has revolutionized the remote control helicopter industry.
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<td>SG281</td>
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<td>SG284</td>
<td>GOBLIN MINI COMET BLACK/RED COMBO Competition Motor, ESC included (280 mm TB blades included)</td>
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<td>SG285</td>
<td>GOBLIN MINI COMET YELLOW/RED COMBO Competition Motor, ESC included (280 mm TB blades included)</td>
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<td>SG380</td>
<td>GOBLIN 380 RED/BLACK (380 mm Black Line Main blades included)</td>
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<td>SG381</td>
<td>GOBLIN 380 YELLOW/BLUE (380 mm Black Line Main blades included)</td>
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<td>GOBLIN 380 CARBON/GREEN (380 mm Black Line Main blades included)</td>
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<td>SG382</td>
<td>GOBLIN 380 KSE (360 mm Black Line Main blades included)</td>
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<td>SG420</td>
<td>GOBLIN 420 (420 mm TB blades included)</td>
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<tr>
<td>SG507</td>
<td>G500 SPORT WHITE/RED (500 mm Main blades included)</td>
</tr>
<tr>
<td>SG508</td>
<td>G500 SPORT YELLOW/RED (500 mm Main blades included)</td>
</tr>
<tr>
<td>SG509</td>
<td>G500 SPORT WHITE/RED COMBO Motor, servos, ESC included (500 mm Main blades included)</td>
</tr>
<tr>
<td>SG510</td>
<td>G500 SPORT YELLOW/RED COMBO Motor, servos, ESC included (500 mm Main blades included)</td>
</tr>
<tr>
<td>SG512</td>
<td>G500 SPORT CARBON (500 mm Main blades included)</td>
</tr>
<tr>
<td>SG570</td>
<td>GOBLIN 570 YELLOW/ORANGE (570 mm Black Line Main blades included)</td>
</tr>
<tr>
<td>SG571</td>
<td>GOBLIN 570 WHITE/SILVER (570 mm Black Line Main blades included)</td>
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<tr>
<td>SG572</td>
<td>GOBLIN 570 YELLOW/CARBON (570 mm Black Line Main blades included)</td>
</tr>
<tr>
<td>SG577</td>
<td>SAB GOBLIN 570 KSE (540 mm Black Line Main blades included)</td>
</tr>
</tbody>
</table>

All manuals are available on our website.
Hey! Visit the download area...where you will find many important documents
Refined and exclusive.....The COMET delivers a new concept to the market. The innovative structural layered carbon fuselage supports three functional modules, the main rotor, tail rotor and battery pack. A low parts count delivers easy maintenance that defines the Comets elegant simplicity. Optional motorised landing gear pushes the boundaries even further maximising the unrivalled aerobatic performance.

**GOBLIN COMET**

**FLY EXCLUSIVE**

**GOBLIN COMET**

**Main rotor diameter:** 1654 mm with 720 T line size blades. Blades size up to 800 mm.

**Approximate weight RTF:** 6000 grams

**Cyclic Servos:** Standard size (40mm)

**Tail Servo:** Standard size (40mm)

**Typical power setup:**
- ESC setup: 200A
- Motor setup: 4530, 4540, 5030 series (480 to 560kv)
- Battery setup: 12S-5000mAh, 14S-4300mAh, 14S-5000mAh

**Special features:**
- Quick canopy release
- Quick battery release
- Retract landing gear (optional)
INDEPENDENT MECHANICAL MODULES

RETRACTABLE LANDING GEAR

(H0742-K) Optional
A free channel is required for use. No additional batteries are required.

FRONT AIR INTAKE

The front air intake forces the air through a narrowing channel accelerating the air flow. The super accelerated air maximizes the streamline effect as it sweeps away the vortex generated in the landing gear area.

EUROPE

WORLD

YouTube
EASIER THAN EVER

Simplicity is the key feature of the Goblin Fireball.

The goal of the project was to design a simple model with, good performance, that crashes well and is fast, simple and cheap to repair.

With the new patented “Direct Drive” system, this has been achieved.

The reduced parts count delivers maintenance that has never been easier! Carefully selected materials used in the soft plastic landing gear, plastic blade grips arms, hard steel shaft, strong plastic frames and a polycarbonate canopy and boom secure minimal crash damage and reduce repair bills.

For fun, for training, for HARD 3D it must be the Goblin Fireball!
GOBLIN FIREBALL

- Main rotor diameter: 626 mm with 280 mm size blades
- Approximate weight RTF: 890 grams
- Cyclic Servos: Micro size (23 mm)
- Tail Servo: Micro size (23 mm)
- Motor: SAB motor - Standard version included.
- ESC: 50/60A.
- Batteries: 6S - 900-1250 mAh

GOBLIN FIREBALL COMBO

Kit with Standard motor, SAB ESC 60A, 4 Servos

COMPETITION MOTOR

Do you want more performance? Try the competition motor with 15% more RPM and 10% more torque
Direct motor on the main shaft with a joint coupling. This solution significantly reduces the number of parts.

Direct motor on the main shaft with joint coupling.
This solution greatly reduces the number of parts.

International Patent Pending
GOBLIN MINI COMET

Registered design 003738210-0001/0004

The fastest serial helicopter in its category.
The high performance, innovative design and pocket size deliver pure speed and pure fun the goblin way.
Compete with your friends... The Mini Comet is perfect for all kinds of RACING, challenge your friends and yourself.
The main modules including the main and tail rotor are based on the Fireball platform. This makes the mini Comet a model with excellent price performance ratio.

Mini Comet ...

Pure Speed,

Pure Fun,

Pure Goblin

- Main rotor diameter: 626 mm with 280 mm size blades
- Approximate weight RTF: 885 grams
- Cyclic Servos: Micro size 23 mm
- Tail Servo: Micro size 23 mm
- Motor: SAB motor - Competition version
- ESC: SAB ESC 60A
- Batteries: 6S 900/1250 mAh
HOW FAST CAN YOU FLY?

SAB SPEED CHECKER

Are you ready to compete? Ready for the SAB Speed Formula?

Using a specially developed algorithm you can now easily verify your top speed with a repeatable accuracy. The SAB speed checker is very easy to use....

After each flight, you will see displayed on screen or via the log analysis, the following information:

- The maximum Speed,
- The maximum distance reached from the take-off point
- The maximum altitude reached from the take-off point

Competition Motor & ESC are included
GOBLIN BLACK THUNDER

<table>
<thead>
<tr>
<th>GOBLIN BLACK THUNDER T 690</th>
<th>GOBLIN BLACK THUNDER T 710</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main rotor diameter:</strong></td>
<td>1548 mm with 690 mm size blades</td>
</tr>
<tr>
<td><strong>Approximate weight RTF:</strong></td>
<td>5200 grams</td>
</tr>
<tr>
<td><strong>Cyclic Servos:</strong></td>
<td>Standard size (40mm)</td>
</tr>
<tr>
<td><strong>Tail Servo:</strong></td>
<td>Standard size (40mm)</td>
</tr>
<tr>
<td><strong>Typical power setup:</strong></td>
<td>12S - 4800 mAh, 160A Esc, 520 Kv motor.</td>
</tr>
</tbody>
</table>

Goblin Thunder T Special features:
- New T Line blades, high modules carbon
- New Graphic Scheme
- Extra light Canopy
- Extra light Boom
- Extra light mainframe
- Quick battery tray release
- Quick tail fin replacement

[p/n SG715] with Blades T Line 690
[p/n SG716] with Blades T Line 710

T-line is a synonym of TOP SAB technology.
Blades created using high modulus carbon for maximum torsional rigidity. A canopy and boom made using a vacuum process to deliver the lightest weight possible. Especially upgraded Graphic Scheme.

<table>
<thead>
<tr>
<th>Airframe</th>
<th>2420 grams</th>
<th>2420 grams</th>
</tr>
</thead>
<tbody>
<tr>
<td>Motor</td>
<td>500</td>
<td>500</td>
</tr>
<tr>
<td>ESC</td>
<td>300</td>
<td>175</td>
</tr>
<tr>
<td>Servos</td>
<td>270</td>
<td>270</td>
</tr>
<tr>
<td>FBL</td>
<td>22</td>
<td>22</td>
</tr>
<tr>
<td>Batteries</td>
<td>1540</td>
<td>1380</td>
</tr>
<tr>
<td></td>
<td>5052</td>
<td>4767</td>
</tr>
</tbody>
</table>

Thunder T RTF with 130A and 12S 4200 >> 4.75 kg
Thunder T RTF with 160A and 12S 5000 >> 5.05 kg
<table>
<thead>
<tr>
<th></th>
<th>GOBLIN BLACK THUNDER 650</th>
<th>GOBLIN BLACK THUNDER 700</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Main rotor diameter:</strong></td>
<td>1468 mm with 650 mm size blades</td>
<td>1548 mm with 650 mm size blades</td>
</tr>
<tr>
<td><strong>Approximate weight RTF:</strong></td>
<td>4900 grams</td>
<td>5300 grams</td>
</tr>
<tr>
<td><strong>Cyclic Servos:</strong></td>
<td>Standard size (40mm)</td>
<td>Standard size (40mm)</td>
</tr>
<tr>
<td><strong>Tail Servo:</strong></td>
<td>Standard size (40mm)</td>
<td>Standard size (40mm)</td>
</tr>
<tr>
<td><strong>Typical power setup:</strong></td>
<td>12S - 4200 mAh, 120A Esc, 560 Kv motor.</td>
<td>12S - 4800 mAh, 160A Esc, 520 Kv motor.</td>
</tr>
</tbody>
</table>

650 Electric: "Fast and crazy". Big blades on a small airframe. High RPMs make it one of the fastest, big machines available. Very agile with crazy power!

690 Electric: "Smooth and light". The weight of the airframe allows you to fly low RPMs with good performance."
ELEGANCE IN FLIGHT!

The Goblin Urukay Carbon is for pilots who demand the highest level machine, delivering precise sophisticated flight. Born for competition the Goblin Urukay is a model with style and substance, outstanding in any type of flight.

- Full carbon fuselage
- Removable tail fin
- Interchangeable boom / canopy

1st and 3rd place to 2016 European championship with Ennio Graber and Daniele Duzzi.

GOBLIN URUKAY CA ENNIO GRABER EDITION

- Main rotor diameter: 1654 mm with 730 mm size blades
- Approximately weight RTF: 5800 grams
- Cyclic Servos: Standard size (40mm)
- Tail Servo: Standard size (40mm)
- Typical power setup: 12S - 4800 mAh, 160A Esc, 520 Kv motor

Perfect geometry in flight.
NEVER SO FAST!

Nitro helicopters enter a new dimension with the Goblin. A high centre of gravity and optimized 650 mm rotor blades gives the helicopter extreme agility and amazing performance never before experienced with a nitro machine!

In addition to the flight characteristics, we have paid special attention to making all maintenance work quick and easy.

The innovative SAB modular concept allows you to remove the engine unit and the tank in just a few minutes.

<table>
<thead>
<tr>
<th>GOBLIN BLACK NITRO 650</th>
<th>GOBLIN BLACK NITRO 700</th>
</tr>
</thead>
<tbody>
<tr>
<td>• Main rotor diameter: 1468 mm with 650 mm size blades</td>
<td>1548 mm with 690 mm size blades</td>
</tr>
<tr>
<td>• Approximate weight RTF: 4700 grams</td>
<td>4800 grams</td>
</tr>
<tr>
<td>• Cyclic Servos: Standard size (40mm)</td>
<td>Standard size (40mm)</td>
</tr>
<tr>
<td>• Tail Servo: Standard size (40mm)</td>
<td>Standard size (40mm)</td>
</tr>
<tr>
<td>• Typical power setup: 90 / 120 Glow engine.</td>
<td>90 / 120 Glow engine.</td>
</tr>
</tbody>
</table>

"Power and agility". A small disk with tuned 650 Thunderbolt blades coupled with a big engine creates amazing power!

"Accuracy and precision". Very locked in and smooth in the air. A light airframe and tuned 690 Thunderbolt blades create fantastic flight performance.

The center of gravity is an essential consideration with a nitro model. We made it a priority to have a high and neutral center of gravity. To achieve this the fuel tank is placed at the centre of the main shaft, this means that as the fuel level changes, the center of gravity remains the same.
### GOBLIN 380

- **Main rotor diameter:** 856 mm with 380mm size blades
- **Approximate weight RTF:** 1400 grams
- **Cyclic Servos:** Micro size (23 mm)
- **Tail Servo:** Mini size (35 mm)
- **Typical power setup:** 6S - 1800/2100 mAh, 80A Esc, 900 Kv motor

"The little big one!"
This tiny SAB helicopter is easy to fly and maintain, it’s perfect for anyone starting out or super handy for a hard and fast fun break! Thanks to the convenient carrying bag, your helicopter will always be ready to go.

### GOBLIN 380 KSE

- **Main rotor diameter:** 820 mm with 360mm size blades
- **Approximate weight RTF:** 1460 grams
- **Cyclic Servos:** Micro size (23 mm)
- **Tail Servo:** Mini size (35 mm)
- **Typical power setup:** 6S - 1800/2100 mAh, 80A Esc, 900 Kv motor

"Super pocket 3d!"
The tiny SAB helicopter, the 380 KSE becomes a super 3D pocket Heli. Feature packed with three-blade rotor, carbon landing gear and KSE styling this unique and attractive helicopter will keep on giving.

### GOBLIN 420

- **Main rotor diameter:** 936 mm with 420 mm size blades
- **Approximate weight RTF:** 1600 grams
- **Cyclic Servos:** Micro size (23 mm)
- **Tail Servo:** Mini size (35 mm)
- **Typical power setup:** 6S - 1800/2600 mAh, 100A Esc, 900 Kv motor

"Incredible little machine!"
Running 420 mm ThunderBolt blades, the new Goblin 420 has an awesome feeling due to the super light airframe. Styled with KSE landing gear, belt tension upgrade and the amazing Blackthunder look.
"LET'S START WITH STYLE !"

The perfect helicopter for those starting out. This super visible, highly capable machine will deliver confidence for a novice and keep delivering as you progress through sport flying all the way to full 3D.

**GOBLIN 500 SPORT**

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
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</thead>
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<tr>
<td>Main rotor diameter</td>
<td>1136 mm with 500mm size blades</td>
</tr>
<tr>
<td>Approximate weight RTF</td>
<td>2600 grams</td>
</tr>
<tr>
<td>Cyclic Servos:</td>
<td>Mini / standard size</td>
</tr>
<tr>
<td>Tali Servo:</td>
<td>Standard size (40mm)</td>
</tr>
<tr>
<td>Typical power setup</td>
<td>6S - 4000mAh, 100A Esc, 1200Kv motor.</td>
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</table>

**GOBLIN 500 SPORT COMBO**

Goblin 500 Sport is available in the perfect COMBO version

- 2 Sets of Blades
- Mini Cyclic Servo KST D5589MG
- Full Size Tail Servo KST D5525SMG
- ESC Hobby Wing 100A V3
- Motor 1200KV
## GOBLIN 570

- **Main rotor diameter:** 1278 mm with 570 mm size blades
- **Approximate weight RTF:** 3400 grams
- **Cyclic Servos:** Standard size (40mm)
- **Tail Servo:** Standard size (40mm)
- **Typical power setup:**
  - 6S - 5000mAh, 120A Esc, 1100 Kv motor.
  - 12S - 3000mAh, 100A Esc, 560 Kv motor.

“**The perfect size!**”
The right balance of size and setup, with the opportunity to use 6s or 12s. It is the natural next step to get to the upper classes, the power to weight ratio ensures fun in sport and 3D flight.

## GOBLIN 570 KSE

- **Main rotor diameter:** 1218 mm with 540 mm size blades
- **Approximate weight RTF:** 3500 grams
- **Cyclic Servos:** Standard size (40mm)
- **Tail Servo:** Standard size (40mm)
- **Typical power setup:**
  - 6S - 5000mAh, 120A Esc, 1100 Kv motor.
  - 12S - 3000mAh, 100A Esc, 560 Kv motor.

“**Awesome power!**”
This middle-class helicopter allows you to experience the thrill of the three-blade configuration with high performance at amazing value.
THE TOP 3D MACHINE!

The agility and style of this three-bladed helicopter was enhanced by the amazing results of Kyle Stacy, winner of several world-class competitions.

It is certainly the top 3D Machine, it’s quiet, precise, powerful and elegant, perfect for any style of flying!
**ROTOR HEAD OPTIONS**

**THE ROTOR HEAD THAT YOU WANT!**

It's never been easier to transform a two-blade Goblin into a three-bladed Goblin!
Thanks to the wide range of options, you can try the quiet, agile, elegance of flying three-blade with ease.

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>R0440-K (Goblin 380)</td>
<td>Rotor Head 3 Blades [silver color]</td>
</tr>
<tr>
<td>R0439-K (Goblin 500)</td>
<td>Rotor Head 3 Blades [silver color]</td>
</tr>
<tr>
<td>R0490-K (Goblin 570)</td>
<td>Rotor Head 3 Blades [silver color]</td>
</tr>
<tr>
<td>R0439 BM-K</td>
<td>Rotor Head 3 Blades [Matte finish]</td>
</tr>
<tr>
<td>H0825-K (Goblin Urukay)</td>
<td>The 2 blades HF3C rotor head was developed for the best result in F3C style flight.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Option</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>H0429 BM-S</td>
<td>3 Blades Tail System Black Matte</td>
</tr>
<tr>
<td>H0826-K</td>
<td>2 Blades Tail System Black Matte</td>
</tr>
</tbody>
</table>
APPAREL & ACCESSORIES

HM029: HOODIE BLACK SAB
HM027: POLO BLACK SAB
HM025: TSHIRT BLACK SAB
HM001: WHITE CAP
HM002: BLACK CAP
HM004: GOBLIN GIRL CAP
HM003: TEAM CAP
HM048: HEX TOOL 1.5
HM049: HEX TOOL 2.0
HM050: HEX TOOL 2.5
HM051: HEX TOOL 3.0
HM053: TOOLS KIT (HEX TOOL 1.5; 2.0; 2.5; 3.0 + TOOLS CASE)
HM052: TRANSMITTER CASE
HM034: NECKSTRAPS
HM041: TOWEL
HM068: Carry bag big size (For Thunder, G700, G770, COMET, URU/KAY)
HM050: Carry bag medium size (For G500-G570)
HM056: Carry bag small size (For G380, G420)
HM062: Carry bag mini size (For Firebot, miniComet)
<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HA115-S</td>
<td>Retaining Compound High Strength Bonding. It is essential to use the proper RETAINING COMPOUND</td>
</tr>
<tr>
<td>HA116-S</td>
<td>Thread Locker Medium Strength It is essential to use the correct Thread locker</td>
</tr>
<tr>
<td>HA007-S</td>
<td>Aluminum Finishing Washers (10pcs) - For Goblin 500/630/700/770</td>
</tr>
<tr>
<td>HA007BM-S</td>
<td>Aluminum Finishing Washers Black Matte (10pcs)</td>
</tr>
<tr>
<td>HA056-S</td>
<td>Plastic cable wrap protector ID4mm OD5mm 1000mm OD5mm spiral completely closed</td>
</tr>
<tr>
<td>HA112-S</td>
<td>Rubber Canopy Edge Protection x 1000mm - For Goblin 500/630/700/770</td>
</tr>
<tr>
<td>HA114-S</td>
<td>Rubber Main Frame Edge Protection x 1000mm - All kind of 2mm main frame</td>
</tr>
<tr>
<td>HA025-S</td>
<td>Battery Velcro Strap. Length 315 mm, Width 30 mm.</td>
</tr>
<tr>
<td>HA023-S</td>
<td>Battery Velcro Strap. Length 440 mm, Width 20 mm.</td>
</tr>
<tr>
<td>HA027-S</td>
<td>Battery Velcro Strap. Length 540 mm, Width 25 mm.</td>
</tr>
<tr>
<td>HA038-S</td>
<td>Battery Velcro Strap. Length 185 mm, Width 16 mm.</td>
</tr>
<tr>
<td>HA041-S</td>
<td>Battery Velcro Strap. Length 250 mm, Width 20 mm.</td>
</tr>
<tr>
<td>HA044-S</td>
<td>Battery Velcro Strap. Length 205 mm, Width 16 mm.</td>
</tr>
<tr>
<td>HA026-S</td>
<td>Heat Shrink - Clear (8pcs x 350mm) Used to connect 2 packs 6s-3700 or 2 packs 6s-5000</td>
</tr>
<tr>
<td>HA058-S</td>
<td>Plastic Servo Horn x 4pcs</td>
</tr>
<tr>
<td>HA051-S</td>
<td>JR Servo Horn x 4pcs</td>
</tr>
<tr>
<td>HA076-S</td>
<td>Crank Shaft Claim x 1pc - YS/OS Engine</td>
</tr>
<tr>
<td>HA0705-S</td>
<td>SAB Fuel Clunk x 1pc - SAB Fuel Clunk Filter x 1pc - SAB Fuel Tube - Goblin Black Nitro</td>
</tr>
<tr>
<td>HA073-S</td>
<td>SAB Fuel Tube 2.4x5.5 x 750mm - For Goblin Black Nitro</td>
</tr>
<tr>
<td>HA035-S</td>
<td>Double Side Tape 1mm x 2pcs - For Goblin 380</td>
</tr>
<tr>
<td>HA042-S</td>
<td>Reinforced Strapping Tape 16x10m</td>
</tr>
</tbody>
</table>
Variable Profile
Variable Chord
New Design
**Stability**
The variable profile gives great stability to the whole helicopter without compromising the rotor agility.
This unique blade shape ensures that the blade remains rigid throughout high response commands and manoeuvres.

**Agility**
The variable profile along the radius of the rotor makes the Thunderbolt blades 20% more efficient in comparison to the SAB Black Line blades.
This innovation reduces stall condition on the blade and delivers maximum thrust from the main rotor.

**Efficiency**
The chord varies along the rotor radius, shorter at the root, greater at tip. Thanks to the aerodynamics of the rotor, more thrust is given to the helicopter exactly where the rotor generates it. This allows harder and more precise flight manoeuvres.

**The sound**
SAB have designed an exclusive tapered blade tip. The taper makes the rotor more efficient and the helicopter quieter during flight.

**Italian design**
The amazing new design was developed not only for aesthetic purposes, it also improves rotor tip visibility, a feature especially appreciated in very low manoeuvres.
**High modulus carbon.**

Using a high modulus carbon we increased the torsional strength by more than 30%.

This provides greater accuracy when you pushing to the limit.

The new carbon cloth provides the awesome SAB look...

---

**690 T Line [p/n 690TBT]**
- Agility
- Precision
- Headspeed

**710 T Line [p/n 710TBT]**
- Agility
- Precision
- Headspeed

**730 F3C T Line [p/n 730TBT]**
- Agility
- Precision
- Headspeed

**720 T Line Speed [p/n 720TBTS]**
- Agility
- Precision
- Headspeed

**690 T Line Tareq GOLD Edition [p/n 690TBTA]**
- Agility
- Precision
- Headspeed
Reactive response
Thanks to the variable chord, the Thunderbolt tail rotor blades offer a more reactive response to the pilot's command. This means the tail moves more rapidly allowing faster manoeuvres and ultimate controllability of the helicopter.

Great Sensation
SAB Thunderbolt tail blades now feature a tapered tip. This new design gives an enhanced sensation of precision and efficiency.
AMAZING SAB TEAM!!!

Competitions, events and performance play a key role for SAB!
The most beautiful 2016 pictures
Thank you to: Tareq Alsaadi, Andre Kesel, Marcel Germann, Markes Hugo, Romeo Oscar, Nicole Waelti, Yuliy Leikin, Antonios Printezis.