

# WHY KUBICEK?

**Kubicek**  
**BALLOONS**



## Experience

Kubicek Balloons has been building balloons for over 30 years. Their depth of experience is vast having built systems for use in all parts of the world. Over 1500 balloons has been sold. Size range from 900 m<sup>3</sup> (31) to 14,200 m<sup>3</sup> (500). Current annual production is over 100 balloons a year.

## Flexibility

Kubicek is ready to modify the products according to his own specifications. Client is welcomed to propose the balloon according to its own image and Kubicek is ready to build it.

## Kubicek Polyester fabric

Kubicek is the world's only balloon manufacturer using polyester fabric of its own design and production. They offer a choice of Kubicek Polyester or Kubicek Polyester Light or Coating Application Hyperlast fabric.

## Everything "In House"

Kubicek has an innovative design and engineering team that offers the complete balloon system made "in house". The envelopes and even the fabric, baskets, burners and cylinders made by Kubicek give you the best performance and compatibility in the market. Its envelopes lift a great deal of weight for the envelope volume.

They are primarily responsible for the popularity of the basket door because of their reasonable pricing and design. Their basket doors are quick and easy to operate and have positive closure. You will readily see that the fit and finish on all Kubicek Balloons is second to none.

## EASA Approvals

Kubicek has an EASA Type Certificate for all of its models. This means that they will come with a Standard Airworthiness certificate and registration, Special shapes included.





# Service & After Sales Care At Next Corner

## Dealers network

Kubicek has a worldwide dealers network. Please call your local partner for your questions. Dealers are ready to help you with right product selection, with sale and balloon delivery and registration. You will always get ready-to-fly balloon. The dealer will also provide you with a solid after-sales care. In case the dealer in your country is not established, call directly the factory.

BALÓNY KUBÍČEK s.r.o., Jarní 2a, 614 00 Brno, Czech Republic,  
Tel.: +420 545 422 620, E-mail: [info@kubicekballoons.cz](mailto:info@kubicekballoons.cz)



[www.kubicekballoons.eu/dealers](http://www.kubicekballoons.eu/dealers)

## Service hot-line

After-sales care is incomparable. Kubicek factory team is always ready to help in your destination. They always carefully listen to the client's comments, they are fast in replies and there is "always a solution" as one of the highest values of the company.

Should you have any questions regarding your balloon's maintenance or service? Don't hesitate to call Ondřej. He can always help you!

Hot-line: +420 731 507 641, [service@kubicekballoons.cz](mailto:service@kubicekballoons.cz)



Ondřej Beneš

## Reasonable pricing

Kubicek's prices are very reasonable compared to other manufacturers. They are able to work with most of the main world's currencies like EUR, USD, GBP, AUD and many others.

## Easy maintenance

Kubicek Balloons have a number of stations worldwide approved to work on a Kubicek balloon. In case your repair station does not have a Kubicek approval, your dealer will assist the station in getting approved. It is a very simple process.



## Use your current bottom-end

Kubicek is ready to modify the envelope free of charge so that fits your current bottom-end. There are no other requires than knowing the burner frame dimensions and specification of burner, basket and fuel tanks.

## Delivery on time

Kubicek can deliver the balloon directly to the client. The average delivery time is less than 10 weeks. Kubicek doesn't make unrealistic promises about delivery times. What is promised is always kept!



# ENVELOPE RANGE

Kubicek Balloons offer a wide range of envelopes for all kinds of operation. Either you are a leisure balloonist, competition pilot or a commercial operator, you will always find the right envelope Kubicek Balloons.

Envelope volume		Model						
<i>m<sup>3</sup></i>	<i>cuft</i>	<i>E</i>	<i>Z</i>	<i>P</i>	<i>XR</i>	<i>Super Sport</i>	<i>ED</i>	<i>D</i>
900	31	X						
1 200	42	X						
1 600	56	X						
1 700	60				X			
1 800	64	X						
2 000	70	X			X		X	
2 200	77	X	X			X	X	X
2 600	90	X	X			X	X	X
3 000	105	X	X			X	X	X
3 400	120	X	X				X	X
3 700	130		X					X
4 000	140		X					X
4 200	150		X					
4 500	160		X					
5 100	180		X					
6 000	210		X					
6 400	225		X					
7 000	247		X					
7 800	275		X					
8 500	300		X					
9 200	325		X					
10 000	350		X					
10 500	370			X				
10 600	375			X				
11 300	400			X				
12 000	425			X				
13 000	460			X				
14 200	500			X				

# BASKET RANGE

Easy to get in, comfortable, durable. Kubicek baskets can accomode from 1 up to 32 passengers in comfort and safety.

<b>K10S</b> Pilot+1  1.16x0.86	<b>K13S</b> Pilot+1  1.2x1	<b>K13</b> Pilot+2  1.25x1.16	<b>K14</b> Pilot+3  1.35x1.16	<b>K17</b> Pilot+3  1.45x1.16	<b>K19</b> Pilot+4  1.55x1.16	<b>K19L</b> Pilot+4  1.62x1.16
<b>K22</b> Pilot+5  1.8x1.25	<b>K23</b> Pilot+5  1.8x1.25	<b>K25P</b> Pilot+6  2.1x1.25	<b>K28T</b> Pilot+6  2.2x1.6	<b>K28Y</b> Pilot+6  2.2x1.6	<b>K28H</b> Pilot+6  2.35x1.6	
<b>K30PP</b> Pilot+8  2.6x1.25	<b>K32T</b> Pilot+8  2.4x1.6	<b>K32Y</b> Pilot+8  2.4x1.6	<b>K32TT</b> Pilot+8  2.5x1.6	<b>K40Y</b> Pilot+10  2.7x1.6	<b>K40T</b> Pilot+10  2.7x1.6	
<b>K40TTA</b> Pilot+10  2.7x1.6	<b>K50T</b> Pilot+10-12  3x1.6	<b>K50Y</b> Pilot+10-12  3x1.6	<b>K50TT4/TT8</b> Pilot+12  3x1.6	<b>K50TTA</b> Pilot+12  3x1.6	<b>K55X</b> Pilot+14  3.45x1.6	
<b>K55TTA</b> Pilot+14  3.45x1.6	<b>K58HH</b> Pilot+14  3.8x1.6	<b>K60TT</b> Pilot+12-16  3.8x1.6	<b>K60X</b> Pilot+12-16  3.9x1.6	<b>K65TTA</b> Pilot+16-18  4.1x1.6	<b>K70TT</b> Pilot+16-20  4.4x1.6	
<b>K70TTA</b> Pilot+16-20  4.4x1.6	<b>K80TT</b> Pilot+16-20  4.8x1.6	<b>K85TT</b> Pilot+24  5.2x1.6	<b>K90DTT</b> Pilot+24  5.2x1.6	<b>K100DTT</b> 2 Pilots+28  6.1x1.6	<b>K110DTT</b> 2 Pilots+32  6.6x1.6	

**K110DTT Type**  
Pilot+12 Optimal number of occupants  
3 Number of passengers in each department  
6.6x1.6 Size in metres



# Fabric Choice

Kubicek offers the choice of Kubicek Polyester or Kubicek Polyester Light or Coating Application Hyperlast Fabric. Kubicek recommends polyester but the final choice is always on the client.

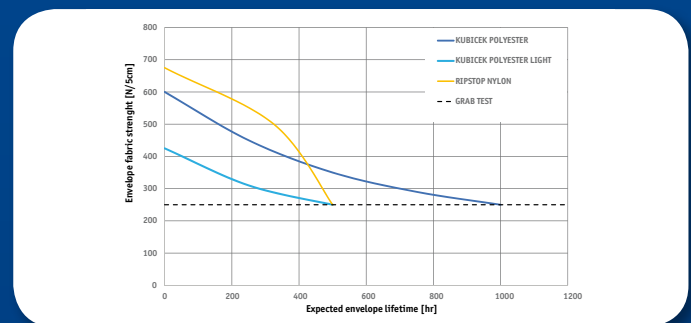
## KUBICEK POLYESTER



Kubicek is the only manufacturer in the world to make its own fabric. When they began making balloon fabric, they chose to make Polyester because of its long life, higher heat capabilities and its resistance to moisture degradation. Kubicek offers the widest colour range on the market.



Kubicek Polyester Balloons after 800 hours? Still on the sky!



## 7 Most Important Reasons To Use Polyester Fabric

1. High temperature resistance – degrades very slowly and there is no risk of immediate strength decrease. **You do not need to be worried about fabric condition when overtempted!**
2. Lifetime – can last in excess of 1000 hrs with proper care. **No hyperlast top or panel replacements!**
3. Colour stability – colours stay bright and shiny through the balloon's life. Colour bleeding is non-existent.
4. You do not need to be worried about packing the balloon when wet. (*Do not store it like that for months*). It will not smell badly and you will not shorten the envelope life.
5. The widest stock colour range on the market plus special custom colours in very realistic time
6. Unique Digital print technology
7. Dust comes off...

## Polyester Concerns

### ■ Polyester fabric is heavy.

Typical nylon fabric weights 64 g/m<sup>2</sup>, Kubicek Polyester 68 g/m<sup>2</sup>. Which means that on a 4000 m<sup>3</sup> (140) envelope the weight difference will be less than 5 kg. You do not need a hyperlast top! Note: Extra weight for hyperlasttop 1/3 increases 4000 m<sup>3</sup> (140) envelope weight by more than 10 kg.

### ■ The Nylon fabric is stronger than Polyester.

Correct. When the balloon is new. BUT the ultimate question is how many flying hours does it take before you reach grab-test limit.

### ■ Polyester is hard to coat and you can apply only thin layer to save the weight.

Correct. But that is why we purchased the professional coating line. Also the chemicals are much more capable nowadays.

### ■ Polyester is too tight. It is less elastic than nylon.

Correct. However due to high required envelope safety factor (5, See FAR.25(b)) this has no practical effect.



Red Hypelast Top



#### ■ UV resistance is better with Polyester or Nylon?

Many sources say polyester but not that important. We fly under low-UV conditions during mornings and evenings.

#### ■ Envelope bag is bigger.

Yes, this is a con of the polyester balloon fabric.

#### ■ Can a porous polyester balloon fly?

Yes, though the gas consumption could slightly increase. Important thing is that the basic material without coating will not change the strength.

#### ■ Why 124 °C limit?

High fuel consumption which appears with higher envelope temperature. Kubicek Polyester can simply take 150 °C with no structure issue or ruining the envelope lifetime. But lack of fuel can be an issue...



One is brand new, the other has over 400 hours. Can you say which is which?

#### ■ Color bleeding?

Solved twenty years ago. Otherwise Kubicek would not be already on the market. How? Company secret.

#### ■ Why other manufacturers do not use Polyester fabric?

They cannot buy it on the open market.

## Kubicek Polyester color shades



# KUBICEK POLYESTER LIGHT



For you who don't fly daily you may find Kubicek Polyester Light great for your purposes. It weighs only 43 g/m<sup>3</sup> and your Kubicek light weight envelope will be 25–30 % lighter compare to Kubicek Polyester, furthermore it is easy to handle, has a good use for special shapes and expected envelope lifetime 400–500 hours. All other advantages of Kubicek Polyester including maximum envelope temperature remain. Save your back and choose Kubicek Polyester Light!

Envelope Size	Estimated envelope weight	
	Kubicek Polyester	Kubicek Polyester Light
BB20E (70)	80 kg	60 kg
BB26E (90)	100 kg	75 kg
BB30Z (105)	125 kg	93 kg

## Kubicek Polyester Light color shades



# HYPERLAST



Kubicek Balloons offer the best quality Hyperlast fabric made by Coating Applications, England. Don't you often land in rocky desert or rough terrain? Then you don't need to consider Hyperlast fabric at all as you get the same or better long life with Kubicek Polyester fabric.

Envelope Size	Estimated envelope weight	
	Kubicek Polyester	Hyperlast
BB85Z (300)	275 kg	333 kg
BB105P (370)	305 kg	369 kg
BB120P (425)	320 kg	387 kg



# Kubicek has a balloon for everyone!

## ENVELOPES

Kubicek makes envelopes from 900 m<sup>3</sup> (31) all the way up to 14 200 m<sup>3</sup> (500) for private, commercial advertising or ride operations use. All Kubicek Balloons include a Nomex scoop, an envelope bag and a crown line as standard equipment. Envelopes 6000 m<sup>3</sup> (210) and larger include a rapid deflation system called slide vent and dual rotators in the base price. On request, you can have the rotation vents on all envelope sizes. Besides, they are remarkable in their responsiveness. Slide Vent is unrivalled in safety, comfort and price.

### Ripstop Resistant Nomex

- All standard features of nomex remained.
- Tear strength increased 2.5 times in comparison to standard nomex without rip-stop structure.
- Fiber dyed resistant nomex – no colour change after touch of the flame.



### Racers and Super Sport envelopes

Kubicek also makes Racing and Super Sport envelopes from 1700 m<sup>3</sup> (60) up to 3000 m<sup>3</sup> (105). These high performance models are designed to be ultra-responsive remain stable and tight in very high vertical speeds.

### Diagonal pattern

For those who desire the look of the Chevron design, Kubicek has developed several models with the diagonal cut.

### Kubicek Special Shapes

Kubicek can build even very complex shapes where the only limitation is your imagination and ... volume of the hot air. Even shapes can be made of Kubicek Polyester Light fabric – than the envelope packing is not an issue anymore.

### Special Shape Shop

Our “special shape shop” is the way how to offer our skills to anybody longing for a personalized balloon shape. Kubicek Balloons own a great stock of various special designs that will enrich the current number of designs in time. For more information go through our website [www.specialshapeshop.com](http://www.specialshapeshop.com)



**KUBICEK PASSENGER BALLOONS FLY WORLDWIDE...**

**... from Australia to the USA, from Canada to South Africa**



## BASKETS

Kubicek basket presents a combination of art and craft. They are nothing short of beautiful but also stout and secure. All the models come fully equipped and “ready to fly”. They can be built to the height required by the customer and can include an easy-to-open door to almost all basket sizes. There is a wide selection of other options also available. Don’t miss also light-weight basket especially for competition.



## FUEL TANKS

Kubicek fuel tanks are available in two sizes, both in Standard or Master. King Size is offered with unrivalled capacity up to 46 kg of fuel and it means the biggest volume on the market! Queen Size has capacity up to 32 kg. The other important features are following:

- It is certified for maximum propane level 85 % instead of common 80 % and tested up to burst pressure more than 89,5 bar
- The best ergonomics on the market
- Quick-stop valves as standard at no extra cost
- Fuel gauge with colored scale – the pilot can easily recognize the fuel level
- Approved up to 15 bar
- Extra safety level due to robot welding
- The best price on the market

	100% Water Capacity	Fuel Volume	Fuel Weight		Empty Weight	Total Weight	
			propane	LPG		propane	LPG
King Size	97 l	82.5 l	41 kg	46 kg	24 kg	65 kg	70 kg
Queen Size	72 l	61.2 l	30 kg	34 kg	20 kg	50 kg	54 kg



Kubicek King Size

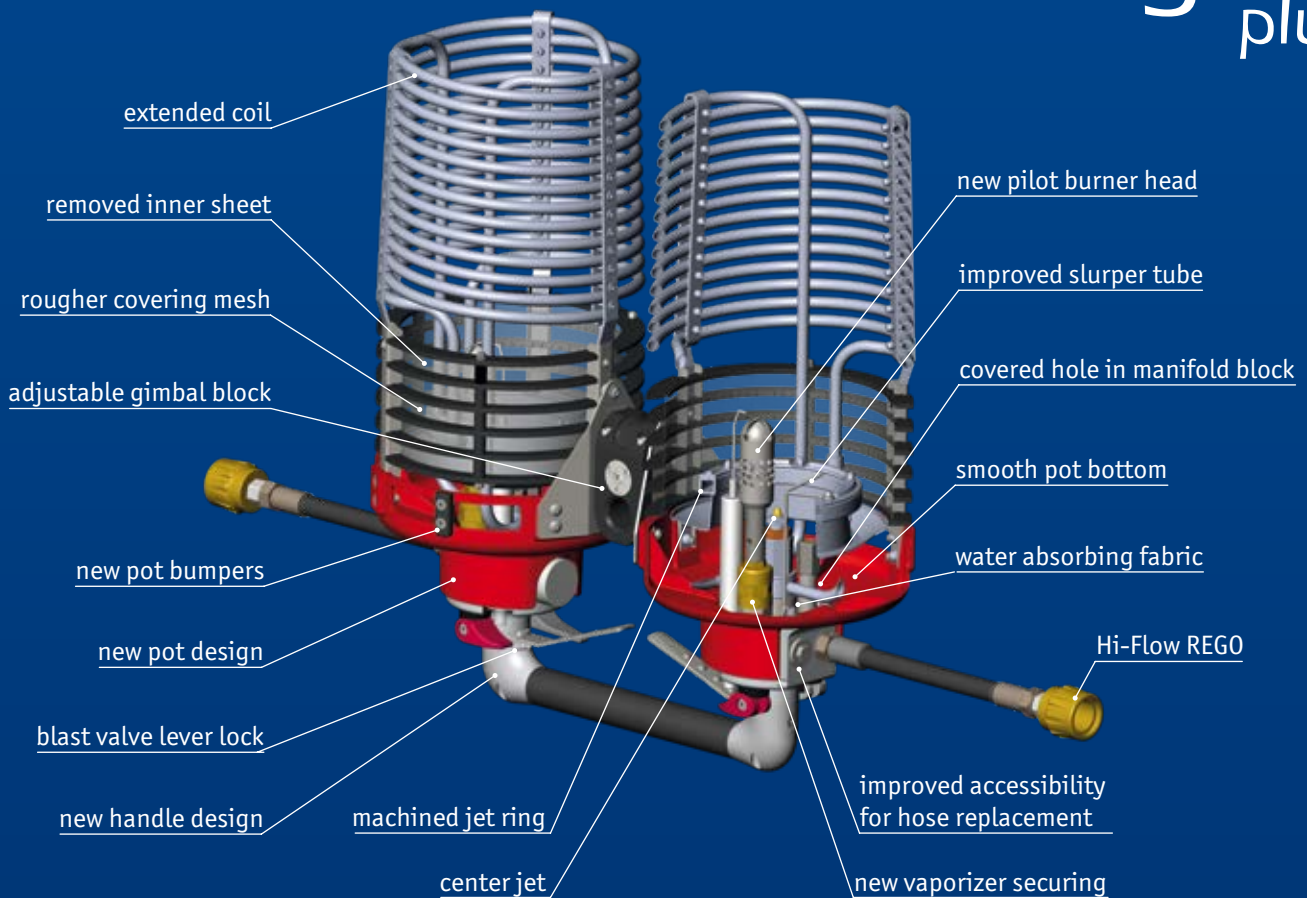


# IGNIS PLUS

Ignis plus is an evolution of very well proven Ignis burner (Over 1200 units have already been sold worldwide). Most of the design changes are based on the operators feedback resulting in a burner fulfilling the highest requirements of the pilots. Ignis plus burners are very powerful and quiet. They are also ergonomically designed to operate 2, 3 or 4-unit burner with just one hand. Liquid pilot light as standard, vapour as a free option. The condensate water and soot was neglected. The most important design changes are:

- Significantly reduced condensate
- Even easier maintenance
- Improved pilot flame
- Adjustable gimbal block
- Better air flow
- Precise jet ring
- Better effectivity of burning

## Ignis plus





# Customize Your Flame!



2-unit burner



3-unit burner



4-unit burner



## Ignis Vario

Adjust your burner frame height with a single click! Move your burner 13 cm higher or 5 cm lower into any position that fits your needs the best.



## Ignis Gyro

Stay focused and centered with Ignis Gyro! The perfect choice not only for competition pilots! No more burned scoops and nomex panels.



## Custom Pot Design

Kubicek airbrushed burner pots will set you apart from the crowd!

Want more?

# CREATIVITY, INNOVATION AND FLEXIBILITY

Kubicek is known for thinking out of the box. Now you can too. They are happy to modify the designs and features of their balloons according to your needs and wishes if it is possible to do. After all you know a lot better how your dream balloon should look like...

## Envelope art

Because Kubicek manufacturers own fabric, they have many special resources available for recreating art or graphics on a balloon envelope. Special digital printing technology **Photo Art 2** based on dye sublimation process is able literally colour the yarns in the weave with an image. This kind of reproduction does not crack or peel. In fact, the image is just as visible on the inside of the balloon as the outside. Glowing a balloon with dye sublimation art is as bright and clean as it gets.

## Strong designing team

We are able to offer such a high level of flexibility and custom changes on our products thanks to the strong and experienced team of designers and developers. As they also fly balloons themselves, they understand well why each pilot has its special

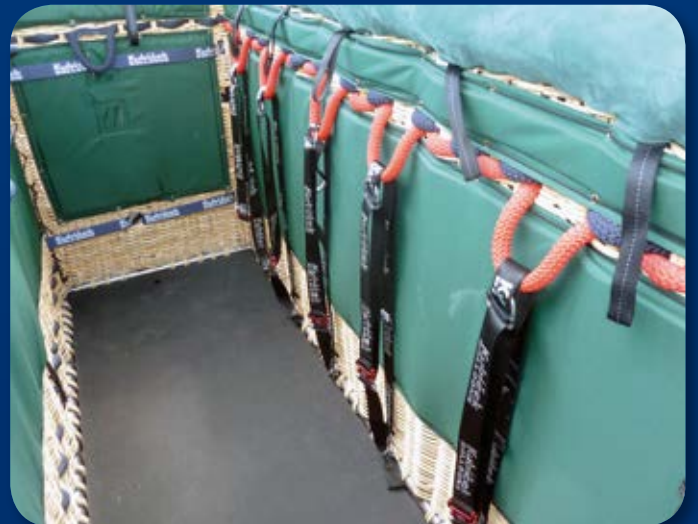
wishes and why is so important to fulfill them. And therefore they always find a way how to make it. Just ask what you want, the rest is our task!

## Custom basket designs

Basket designs and layouts can be modified to fit your special needs. Just ask.









# OUR HOME

**Kubíček  
BALLOONS**

Kubicek Balloons is a hot air balloon manufacturer based in Brno, Czech Republic, Europe. They are one of the biggest manufacturers in the world. Their experienced team of more than 50 employees has already built more than 1500 balloons in purpose facilities. Kubicek offers a pilot training in its own pilot school on Balloon Castle. For details [www.balonovyzamek.cz/pilotni-skola/](http://www.balonovyzamek.cz/pilotni-skola/)



**COME TO VISIT US!**

**BALÓNY KUBÍČEK s.r.o.**  
Jarní 2a, 614 00 Brno  
Czech Republic  
Tel.: +420 545 422 620  
E-mail: [info@kubicekballoons.cz](mailto:info@kubicekballoons.cz)

[www.kubicekballoons.eu](http://www.kubicekballoons.eu)