



Temporary brochure 17/06/2005

Steel is real



High quality steel is the best possible material for a strong, comfortable, well equipped, long lasting frame...all our bikes are high quality steel...we would not wish to build our bikes with anything else...and we

would not wish to use anything else for our own cycling!

Cheap (thick walled) aluminium frames are strong enough, they could have the fittings required on a touring bike but they are heavy and very uncomfortable. More expensive (thin walled) aluminium frames are less uncomfortable and they are quite light but they can't have the fittings required and they break! Dealing with a broken lightweight aluminium frame is easy...you recycle it into bottle tops!

Titanium frames are fairly light, they ride very well but it is extremely expensive to have the required fittings and furthermore, all titanium frames that we have known, have also broken! It is usually impossible to repair a titanium frame. Perhaps there are some titanium frames, being made today, or which may be made in the future, that won't break... but we doubt it. We certainly wouldn't want to risk such a huge sum of money, when steel is almost as light, much more durable (and could be easily repaired if necessary), rides better, is relatively inexpensive and a steel frame can have all the fittings you require. Steel is real!

Raven Sport Tour



The New Raven Sport Tour is the latest evolution of our range of high performance machines, which have always gained the highest respect from all who have ridden them. Because of the huge success of the Raven Tour as a multi-purpose machine and the introduction of the Raven Catalyst... which has huge off-road touring potential, we decided to focus the Sport Tour much more sharply as a high performance road going machine (it will still go on tow paths or cycle paths). It now has even sportier geometry, a lower bottom bracket height and much tighter clearances than the original version. The fattest tyres that can be used with mudguards are now 1.75" and we really don't recommend anything narrower than 1.5" (due to the bottom bracket height). The result is a genuinely fast, extremely comfortable sports touring cycle, with absolutely superb handling.

We have lost as much weight as we can from the frame, without making it too delicate... we suggest protecting the tubes well if you are flying with it though!

The new, exclusive to us, conical 853 tubeset is as light weight as possible but it is still stiff enough to carry some weight... we think that about 12kg on the back and 5kg on the front (it is now equipped with lo-loader bosses) should be regarded as the maximum... should you wish to take more we recommend either the Raven Tour or a Bob Yak trailer... indeed it would be ideal for many to tour towing a trailer... then most of the bulk and weight could be left at base camp and the joys of riding an unloaded bike through mountain roads could be fully realised!

The Sport Tour is more than suitable for Audax rides of any distance, it would also make the perfect long distance commuting machine.

The handling is quick, positive and whilst the bike is still very stable, we do think that this machine is more suitable for an experienced confident cyclist and the clean lines and (relatively) tight look of the Sport Tour will appeal to the eye of many... when it looks so right, it must be right... well you risk nothing by trying one, we offer a "100 day money back, if you don't agree, trial".



100 day money back
if not delighted guarantee
on all new Raven cycles

Construction & features



The frames are beautifully T.I.G. welded, to our own exclusive design, by the finest frame builder in Taiwan and are subject to independent quality control at all stages of the process.

All frames have a full complement of fittings:



Steel fittings for extra neat, Rohloff-specific gear cable (and rear brake) routing under the top tube.



3 sets of bottle bosses are provided.

Bosses for directly screwing the mudguard to the seat stay and chain stay bridges.

The frames have V brake bosses and upper carrier bosses on the seat stays.



We have designed and specified our own ultra lightweight alloy eccentric and steel shell, to adjust chain tension. Each frame has a unique frame number.



We have, at considerable expense, had our own Rohloff-specific, cast stainless steel, vertical, twin-eyed, socketed dropouts made.

Forks



The Raven Sport Tour fork has a lightweight, hollow, cast crown, Reynolds 531 Competition blades, as fitted to & developed on, our current xTc cycles. The zero-maintenance, shock

absorbing abilities of competition blades have made Reynolds forks legendary!

The forks have V brake bosses fitted behind the blades, reducing brake squeal and a full complement of brazed on fittings; the facility to directly screw the mudguard to the underside of the crown, fittings for lo-loader carriers and fittings for mudguard stays.

4 Colours



Frame and fork finish

All the frames (and forks) undergo a multi-stage anti-corrosion process and are then powder coated in a modern, high tech facility, the decals are applied and then the frames are treated to a second clear powder coat to seal in the decals.

The Raven Tour is available in a choice of 4 different colours, one stealthy, two discreet and one loud but tasteful: the colours available are;

[1] Matt black stealth finish...no visible decals... just a self adhesive stainless "Thorn" badge.

[2] Gloss traditional British racing green... subtle outline decals in silver... self adhesive stainless "Thorn" badge.

[3] Pearl cobalt blue... subtle outline decals in silver... self adhesive stainless "Thorn" badge.

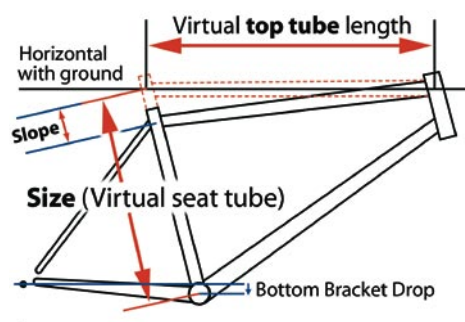
[4] Bright red gloss... subtle outline decals in black... self adhesive stainless "Thorn" badge.

Upgrades.

The Raven Sport Tour has the option of many upgrade and accessories, you may choose whatever you wish, we can advise about the suitability of different tyres for different intended uses or about carriers etc. We highly recommend the £25 upgrade to a black hub... polished alloy is a perfectly fine finish for bicycle hubs, but given the exceptionally long service life of a Rohloff hub you can be certain that the hub will become grey and dull over a long period of time... look at an old handlebar stem. Architectural quality, black anodizing is an expensive process for Rohloff to apply, producing an expensive upgrade but it will preserve the appearance of the hub over the years.

Size Virtual seat tube (mm)	Actual seat tube c-c (mm)	Top tube	Virtual top tube length (mm)	Slope (mm)	Standover height at head tube* (mm)	Standover height at mid tube* (mm)	Chain stay length (mm)	Bottom bracket drop* (mm)
461	401	short	510	60	737	707	415	57
486	421	long	565	65	759	725	415	57
511	441	short	530	70	775	742	415	57
511	441	long	580	70	775	743	415	57
536	456	short	545	80	800	762	415	57
536	456	long	595	80	807	771	415	57
561	471	short	560	90	829	787	430	51
561	471	long	610	90	826	785	430	51
586	486	short	575	100	850	809	430	51
586	486	long	625	100	853	809	430	51
611	521	short	590	90	872	831	430	51

* = with Panaracer Tourguard 26 x 1.75" tyres



The next size up (486L) has a top tube which is longer than average for the frame size.

The next 4 sizes (511, 536, 561 and 586) are available with either a short or a long top tube (S or L).

Our largest size (611S) is only available with a "short" top tube... this is because very tall people wanting straight bars should choose 586L and very tall people wanting drop bars should choose the next size up... 611S.

If you prefer, you may find it easier to think of the sizes this way;

Size 561S is the smallest size possible... if you need this size fine, otherwise think of two ranges of bikes, one for drops one for straights.

The drop bar range is sized;

Small = 511S, Small medium = 536S, Medium = 561S, Med large = 586S and Large = 611S

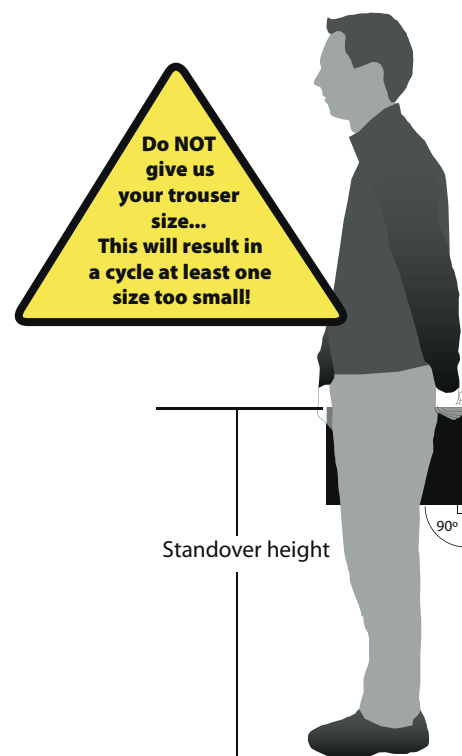
The straight bar range is sized;

Small = 486L, Small medium = 511L, Medium = 536L, Med large = 561L and Large = 586L

We almost certainly have a Raven Sport Tour to fit you!

Please note that, owing to the sloping top tube design of the frames, you are supposed to have considerable standover clearance on all, except possibly the smallest two, sizes.

The largest sizes are for really tall people; if you are not really tall, then they would be the wrong choice for you!



To measure your standover height...

1. Stand in cycling shoes with your back against a wall, feet together.
2. Place a large coffee table style book (a thin hardback book is best) against the wall between your legs.
3. Raise the book as high as it will go. Without moving the book step forward and note the position of the top of the book.
4. Measure from the floor to the top of book... that is your standover height!

Raven Sport Sizing... we now make 11 sizes!

We should be able to fit cyclists from 1500mm (4 feet 11 inches) to cyclists of 1900mm (6 feet 3 inches) perfectly.

Generally speaking, the short top tube frames are more suitable for drop bars and long top tube frames are more suitable for straight bars. Some cyclists may wish to sit in a very upright position and it is possible that a short frame with straight bars, may then be the best choice for these cyclists, who, due to a probable "long legs in comparison to their length of back" body shape, are most likely to be female. Very occasionally somebody (almost certainly male) will need a long top tube with drop bars.

Please also note that it is better to have one size smaller frame size with straight bars compared to drop bars i.e. somebody of slightly taller than average male size may need a 562L with straight bars and a 587S with drop bars. We think (and remember we see lots of people on bikes!) that this gives the best aesthetic and, as a consequence, we have designed the actual lengths of the top tubes to take account of this.

Our smallest size (461S) has a top tube that is shorter than average for the frame size, making it suitable for most people just below 5 feet tall.



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Why the bikes are called Ravens

Rohloff have long used the raven as their logo; we asked their permission to use their artwork and the name 'Raven' on our new, Rohloff-specific bike, and Rohloff were kind enough to grant us permission. Had Rohloff used a wild boar as their logo, we would not have asked to use the name.

We admire ravens because they are considered to be the most intelligent of birds, they are also very social birds and in the wild they are only to be found high up in the mountains. We like to think that fellow cyclists are intelligent, social creatures and cycling is usually at its best in the mountains.

**Find out for yourself
why so many of our
customers own more
than one Thorn bike!**

UNIQUE THORN 100 DAY PLEDGE

100 day money
back if not
delighted
guarantee
on all new
Raven cycles

☆ We are so convinced of the superiority of our product that we will make you the following offer...

☆ Buy a Thorn Raven Sport Tour, ride it for 100 days & if you are not totally delighted, we will give you all your money back...

Beat that!

