

THORN

>> EXPLORER



CYCLING PLUS C+145

THORN Explorer from £999 "Great value all-rounder with superb handling, plenty of options too." It's a lot of bike for the money, with a good frame and respectable kit - choosing crank lengths and rims is a real bonus. It's versatile: fit some drops and narrower tyres and you can easily Audax."

Overall verdict - 9 out of 10

With our low cost entry level 'serious' tandem

You could: Explore bridle ways and towpaths on Sunday mornings, explore country pubs on a summer's evening, or explore your own limitation on a long Audax ride. You could even explore Europe on a lightweight tour...

EXPLORER ... A new kind of togetherness.

Frame

High quality, **lightweight**, butted mega-sized Cro-mo frame and threadless unicrown cro-mo fork. (5 year frame & fork warranty)
Alloy eccentric, reliable F.S.A sealed bearing 1 1/8" threadless headset.

Specification

- > Handbuilt wheels - Shimano LX hubs,
- > Choice of 26" Sun rims,
- > Choice of Panaracer tyres,
- > Shimano LX 9spd rear and Suntour front mech,
- > Shimano HG70 cassette 11-32,
- > Shimano sealed bottom brackets,
- > Thorn all alloy x-over chainset - choice of crank lengths and rings sizes,
- > Choice of straight or drop bars,
- > Choice of Thorn stokers bars or Thorn Comfort bars,
- > ESGE (SKS) P45 mudguards,
- > Alloy rear carrier,
- > Pedals, toe clips & straps.



Derailleur Tandems

Sizes

S/S (18"/16" c-c), **M/M** (20"/18" c-c), **L/S** (19"/14" c-c), **L/L** (22"/20" c-c)





Riding Tandem is fun!

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For partners of unequal ability, riding tandem is the best way they can enjoy cycling together.

Once the energy wasted in concern and frustration by both partners has been harnessed into forward progress, the new tandem team, in all cases we have known, has gone on to exceed all their previous (realistic) cycling ambitions. For those with balance problems or visual impairments, stoking a tandem is the only way to obtain full cardiovascular fitness in the open air.

A tandem fitted with Kiddy Cranks (or even better a childback tandem) enables families to continue cycling during the early years of parenthood. It also introduces children to the pleasures of cycling in a safe, controlled environment which is stimulating enough to be anticipated with excitement.

When two cycling-fit and strong parties ride tandem the result is a shared athletic experience of a quality beyond words... and fast!



Why do all our tandems use 26" wheels?

Why do all our tandems use 26" wheels?

We use 26" wheels for many good reasons...

The 26" MTB wheel is known in every country in the world, so spare tyres are available everywhere.

26" wheels are much stronger than the same weight 700C wheels. When a tyre manufacturer makes a good 26" tyre they know that the potential sales are in the millions, if they know that they make a good (wide) 700C tyre the potential sales are only in the thousands. Therefore tyre manufacturers can afford to put much more capital into R&D and also use higher quality materials.



Isn't it hard work with big fat tyres?

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Not at all! The Panaracer Hi Road 26 x 1.5" tyres, that we fit as standard equipment, have a high quality casing. They weigh less, provide more grip, are more reliable, are more comfortable and have a lower rolling resistance than any 700 x 35C tyre available. We have sold literally thousands of them and we have never had a failure at the side wall, failure at the side wall is very frightening and potentially dangerous yet very common with many 700C tandems. See our 26" Touring Tyre Test.

The unique THORN 14 day pledge.

Talk to us, have us build you a THORN, and if you contact us within two weeks of delivery and tell us that you don't wish to keep it, for any reason, we will arrange to have it collected and refund you in full, provided that you have not damaged the machine. (If, owing to unforeseen circumstances, you are unable to ride the cycle during the first 14 days, contact us and we are likely to extend the period.)

Lifetime warranty available on frame and forks.
12 months warranty on components.

As you can see, we really can "guarantee your satisfaction".

14
DAY MONEY
BACK IF NOT
DELIGHTED
GUARANTEE
ON ALL
THORN CYCLES

The THORN Tandem range...

THORN Voyager - We have achieved the near impossible and are able to offer a high quality Cro-mo tandem in 3 sizes, plus 2 childback designs, at an unbelievably low price. Many upgrades in specification are available.

THORN Explorer - With our new low cost entry level "serious" tandem... You could: Explore bridle ways and towpaths on Sunday mornings, explore country pubs on a summer's evening, or explore your own limitation on a long Audax ride. You could even explore Europe on a lightweight tour... **THORN Explorer**... A new kind of togetherness.

THORN Adventure - Designed for a lifetimes use, for every purpose from fast touring up to and including heavy camping over unmade roads. A serious machine handbuilt in the U.K. from our exclusive "Reynolds 531" tubeset which features a "conical" downtube.

THORN Discovery - The worlds ultimate expedition touring tandem!

THORN Trident - 3 adult triplet - (call now for latest price & specification)

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Tandem Sizing

Sizing tandems can be difficult and confusing... where do you measure them to and from?

Here are the possibilities:

1. When we design a frame we measure them from the centre of the bottom bracket (crank axle) to the centre of the intersection between the top tube(s) and the seat tube(s). Many mountain bikes are also measured this way... this method makes a frame sound much smaller than it is if it has a sloping top tube (which our tandem frames all have).
2. You can measure from the centre of the bottom bracket to the top of the seat tube. This can tell you if you have enough seatpost out of the frame to allow: **a.** room to fit a stokers stem to the front seatpost, **b.** room to fit a suspension seatpost to the rear seatpost.
3. If you want dimensions... we prefer to use the "equivalent UK solo size", as it more accurately conveys the actual size of the tandem. (figure 1.)

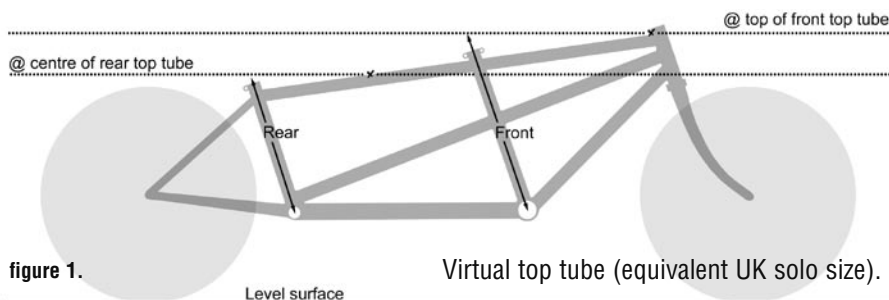


figure 1.

Front: On the front of a tandem you may have to stand as far forward as the handlebar stem, so we give an "Equivalent UK solo size" as if the top tube was parallel to the ground at this point.

Rear: On the rear of a tandem we give the "Equivalent UK solo size" as if the top tube was parallel to the ground at the centre of the tube (you don't need to stand any further forward on a tandem than this).

4. For simplicity we have called our frames - S/S, M/M, L/L and L/S (small, medium, large and large/small). Our childback sizes we call XXS.

Most (99%) adult tandems are sold to crews who comprise of a male pilot and female stoker. We have designed our tandems for a male/female combination.

Virtual top tube (equivalent UK solo size).

If you are a male/male, female/female or female/male combination you need to consult with our frame designer.

We also give the sizes of typical UK sized touring solos that our tandems are equivalent to (regarding handle bar height, standover and reach) e.g. Size M/M is suitable for a medium height male pilot who would be happy to ride a 22" touring solo and a medium height female stoker who would be happy to ride a 19" touring solo. (see figure 2.)

5. To double check your assessment of sizes XXS, S, M and L you can measure your Standover Height. Do not use your trouser size... this is usually 2" to 2.5" (50 to 63cm) less than your standover height and may result in the wrong size frame being built!



Tandem frame dimensions

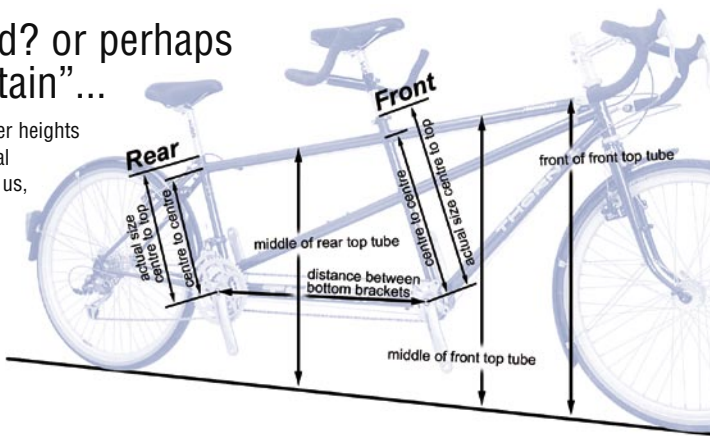
figure 2.

THORN Size (see point 4.)	Seat tube centre to centre (front/rear) (see point 1.)	Actual size centre to top of seat tube (front/rear) (see point 2.)	Virtual seat tube equivalent UK solo size (front/rear) (see point 3.)	Standover heights (see point 5.)			Distance between bottom brackets
				@ front of front top tube	@ middle of front top tube	@ middle of rear top tube	
S/S	17.25"/15.75"	500/435mm	20"/17.5"	775mm	750mm	705mm	25.5"
M/M	19.5"/17.5"	550/482mm	22"/19"	800mm	780mm	745mm	27"
L/L	21.5"/19.25"	600/522mm	24"/21"	850mm	830mm	785mm	28"
L/S	18.75"/14.25"	525/403mm	23.5"/18"	835mm	780mm	705mm	25.5"
S/S	18"/16"	510/425mm	21"/18.5"	755mm	730mm	690mm	27"
M/M	20"/18"	560/480mm	23"/21"	800mm	775mm	740mm	27"
L/S	19"/14"	525/380mm	24.5"/17"	840mm	785mm	670mm	27"
L/L	22"/20"	602/530mm	24"/21"	850mm	830mm	785mm	27"
M/XXS	17"/11"	480/295mm	24"/15.5"	770mm	710mm	590mm	24"
S/XXS	15.75"/11"	450/295mm	21.5"/15"	710mm	665mm	575mm	24"

Still confused? or perhaps just "not certain"...

Then, have your standover heights (in shoes) and your actual heights ready and phone us, if you can tell us what you would like to do on the tandem we can do the rest.

We have thousands of happy customers, talk to one! ... better still talk to us!



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 against the wall (between your legs).
3. Raise the book as high as it will comfortably go.
4. Measure from the floor to the top of book, that is your standover height.

EXPLORER ORDER FORM

Customer Name _____	BK N° _____
Address _____	
Postcode _____	
Telephone Number Home _____ Work _____ Mobile _____	
Email _____	

The Thorn Explorer is available as **frame and fork only** (including F.S.A. Orbit II aerospace bearing threadless headset, including alloy eccentric and all stainless screws etc) at **£599** ☐

THORN Explorer **Complete Tandem** **£999** ☐

Colour- **Sunrise** ☐ **Moonlight** ☐

Any colour you like, may take 4-8 weeks **£100** ☐

Sub Total **£**

Size

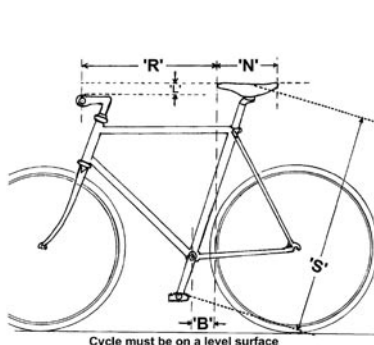
S/S ☐ **M/M** ☐ **L/L** ☐ **L/S** ☐

TANDEM SETUP DIMENSIONS

Tandem Setup Dimensions ... Please fill in

Front Rider	Rear Rider
1. Your sex* = Male ☐ Female ☐	1. Your sex* = Male ☐ Female ☐
2. Your height = _____ cm	2. Your height = _____ cm
3. Your stand over height (inside leg measurement from crotch to floor in shoes, not trouser size) = _____ cm	3. Your stand over height (inside leg measurement from crotch to floor in shoes, not trouser size) = _____ cm
4. Body type* = Long legs ☐ Short legs ☐ Average ☐	4. Body type* = Long legs ☐ Short legs ☐ Average ☐
5. Preferred riding style* = Upright ☐ Relaxed ☐ Sporty ☐ Aggressive ☐ Racing ☐	5. Preferred riding style* = Upright ☐ Relaxed ☐ Sporty ☐ Aggressive ☐ Racing ☐

The following dimensions will enable us to set up your tandem exactly like your favourite machine.



	Front		Rear	
N =	_____ / _____	mm - Name of Saddle	_____	or if not a current type, overall length.
S =	_____ / _____	mm - Distance from top of pedal (with crank in line with seat tube) to top of saddle, measured along the seat tube.	_____	
B =	_____ / _____	mm - Distance that a plumb line (weight on a bit of thread) falls behind the centre of the bottom bracket when suspended from the tip of the saddle.	_____	
L =	_____ / _____	mm - Distance from the bottom of a level straight edge placed on the top of the saddle to the top of the handlebar stem.	_____	
R =	_____ / _____	mm - Distance from tip of saddle to the centre of the handlebars.	_____	

Note: The dimensions you send us must be accurate, otherwise this is a meaningless exercise Get somebody else to check your measurements.

Please Note:- Occasionally some items become unavailable for long periods of time. We reserve the right to substitute items of similar (or greater) value where there will be no adverse difference in function. No surcharge will be made.

* = Please ☒ tick box required

EXPLORER ORDER FORM

Standard Component Specifications & Zero Cost Options

Headset - 1 1/8" threadless F.S.A. Orbit II aerospace bearing ... currently **the best** available

Wheels - Shimano LX M570 QR hubs 36 hole (135mm OLN),
handbuilt onto 26" Sun rims* **Sun Rhyno** ☐ **Sun CR18** ☐ with DT Swiss stainless steel spokes,
Pana racer Hi Road 1.5" tyres ☐ Pana racer Pasela Tourguard 1.75" tyres ☐
Velox rim tapes and presta inner tubes.

Choice of bars & controls -

Drop Bar Bar End Shifters ☐

ITM anatomic alloy drop bars front* **40cm** ☐ **42cm** ☐ **44cm** ☐ (centre to centre) + Shimano Dura-Ace 9 speed bar end shifters + Shimano R400 SLR aero brake levers + Suntour SE (self-energising) rear & Suntour XC Pro front brakes using Jagwire YPK brake blocks, rigid alloy brake hanger for front cable + black cork tape

Straight Bar Twist Grip ☐

Alloy straight bars + Shimano Deore M510 'V' brakes & Deore M510 'V' brake levers + Sachs Attack half pipe 9 speed twist grip shifters + grips

Transmission -

Shimano LX M570 (SGS) rear mech and Suntour XC Pro front
Shimano HG70 (silver) 9 speed cassette 11-32
Shimano UN52 sealed bearing bottom brackets
SRAM 9 speed (silver) final drive chain + SRAM black connecting chain

Choice of cranks -

X-Over Drive using - Thorn Power Pro alloy 110 / 74 PCD tandem chainsets with ramped steel rings
ring size **28 / 38 / 48T** ☐

Choice of crank length* Front **170mm** ☐ **175mm** ☐
Rear **160mm** ☐ **165mm** ☐ **170mm** ☐

Handlebars and Stems -

1 1/8" alloy "front loading" threadless stem (length / angle + alloy spacers to suit)

Choice of stokers bars* **SJSC stokers bars rear + black cork tape** ☐ **SJSC Comfort bars Mk2 18° + black grips** ☐
Thorn fixed length tandem stokers stem - 120mm

Alloy micro adjust seatpost + gel saddle* Front - **Ladies** ☐ **Gents** ☐
Rear - **Ladies** ☐ **Gents** ☐

SKS mudguards* **Silver** ☐ **Black** ☐

High quality brake + gear inner wires and outer cables
alloy eccentric
stainless steel fittings
alloy rear carrier
pedals, toe clips & straps.

Please Note:- Occasionally some items become unavailable for long periods of time. We reserve the right to substitute items of similar (or greater) value where there will be no adverse difference in function. No surcharge will be made.

* = Please ✓ tick box required

EXPLORER UPGRADES

Thorn adjustable tandem stokers stem - adjusts from 145mm to 185mm £10 ☐

Drop bar option upgrades

Suntour SE (self-energising) rear & Suntour XC Pro front brakes + **Shimano XT complete cartridge brake shoe set** - set of 4 These are the best rear rim brakes you could possibly use with drop bars on a heavily laden touring tandem, no matter how much money you spend £25 ☐

Straight bar option upgrades

Comfort bars fitted to the front - Our own design Mk2 (in consultation with a senior physiotherapist) butted (3.0/1.8) 6061 T6 alloy 18° £10 ☐

Saddles & Seatposts

San Marco Rolls Classic saddle, fitted to the front £5 ☐

San Marco Rolls Classic saddle, fitted to the rear £5 ☐

Terry ladies Liberator X saddle, fitted to the front £20 ☐

Terry ladies Liberator X saddle, fitted to the rear £20 ☐

Other Saddle Front **Please specify:** £ ☐

Other Saddle Rear **Please specify:** £ ☐

USE XCR Alien (with layback) suspension seatpost - 64mm travel, 400mm length, including shim, silver, rear only £90 ☐

Pedal upgrades

Shimano PD-M520 SPD double sided pedals (including cleats) Front £20 ☐ ... Rear £20 ☐

MKS GR9 platform pedals + toe clips - Front S ☐ M ☐ L ☐ XL ☐ Rear S ☐ M ☐ L ☐ XL ☐ + straps Front £25 ☐ ... Rear £25 ☐

Other pedals Front **Please specify:** £ ☐

Other pedals Rear **Please specify:** £ ☐

Carriers

Blackburn MTN 1 rear carrier black ☐ or silver ☐ £5 ☐

Blackburn EX1+ rear carrier black ☐ or silver ☐ £10 ☐

Thorn steel lo loader, black £50 ☐

Thorn steel expedition rear carrier, black £50 ☐

Accessories

Zefal HPX pump, best quality ever, easy to obtain high pressure (best to purchase this now to avoid size confusion at a later date) £20 ☐

Composite MTN bottle cages, ultimate security and cleanliness **£5.00 each** ... **Number required** £ ☐

Thorn stainless steel dynamo bracket, including screws £3 ☐

2 x Vista Lite Nebula (rear), 5 super bright LEDs (not British Standard) (fitted to Thorn rear carrier with a double LED bracket) £25 ☐

Spares kit - Includes - 2 x tubes, 1 x tandem gear inner, 1 x tandem stainless steel brake inner £15 ☐

Standard frame & fork warranty - 5 years ... Upgrade to a lifetime warranty for £70 ☐

Others - Please specify: £ ☐

..... £ ☐

..... £ ☐

Total Cost £