

## KRAMPLUS OPS FRAMESET

Thanks for spending your hard-earned money on a Surly. Seriously, we really appreciate it. You could've picked something else but you didn't, and that means a lot to us because we've put a lot of work into making a great riding bike that you'll enjoy for a long time. Before you read any further take a minute and write down this frame's serial number. If you should ever experience a problem with it, the serial number will help us get things sorted, and if your bike is ever stolen the serial number is undeniable proof that it's yours. So take a minute, flip the bike over, and write it down. Your frame's individual serial number is located on the underside of the bottom bracket (the part of the frame that houses the crank bearings).

### SERIAL NUMBER:

The Krampus frame is the Stargate in 29er evolution, and our Ops frame here takes it a special step further with galaxy-owning accoutrements like our MDS chip dropouts. Same amount of room for bigger than normal 3" tires on 50mm rims (we call this combination "29+"), but when all is said and done, it's not a fat bike. Where fat bikes are really designed for slow-speed crawling, the Krampus Ops encourages big speed at the outer limits of every berm. It's got a long toptube and as short a rear end as we could get away with given the wheel/tire size. Combined with the big, wide tires, you get a mad amount of rolling inertia and grip with a little bit of suspension thrown in for frosting. The Krampus Ops is just plain fun to ride.

Krampus Ops hub spacing is standard 100mm front and 135/142mm rear. It's got clearance for disc rotors up to 160mm and is designed to run a high direct mount standard front derailleur. This type of derailleur will allow the most clearance at the tire. Even though there is no need for the sort of frame offset you find on our Pugsley and Moonlander models, chain and derailleur clearance at the tire remains a serious consideration. If you plan to use standard width rims and tires, you'll be able to run a normal mountain triple crank. However, if you go with our 50mm Rabbit Hole rims and 3" Knard tires (and why wouldn't you?) then plan to use a 1x or 2x crank cause a triple simply won't clear the tire. For best chain/tire clearance, we recommend either a Surly O.D. 2x crank or a 1x system. Other brands' 2x cranks will work but may cause some chain-on-tire rub in the easiest gear combo.

The Krampus Ops also features our Modular Dropout System (MDS), allowing you to change up your drivetrain according to needs. Frames ship with MDS dropouts in 10mm track end singlespeed, standard vertical with derailleur hanger and a 142 x 12mm thru-axle version. So, you may do what you will.

**⚠WARNING: Cycling can be dangerous. Bicycle products should be installed and serviced by a professional mechanic. Never modify your bicycle or accessories. Read and follow all product instructions and warnings including information on the manufacturer's website. Inspect your bicycle before every ride. Always wear a helmet.**

Additional Product and Safety Information can be found at the website: [surlybikes.com/safety](http://surlybikes.com/safety)

## FRAME COMPATIBILITY

**Tubing:** Surly 4130 CroMoly steel. Main Triangle TIG-welded, custom butted. Sweet CS Yoke

**Rear dropouts:** Surly Modular Dropout System gives you the option of 142 x 12mm thru-axle (Shimano Direct Mount derailleur hanger [axle included]), 10mm QR geared, or singlespeed

**Brake compatibility:** 51mm IS disc mounts frame and fork

**Max Disc Brake Rotor Size:** 180mm

**Braze-ons:** Dual water bottle mounts, Surly Trip Guide full line guides for brake and derailleurs, fender and rack eyelets

**Seatpost diameter:** 27.2mm

**Seatpost clamp:** 30.0mm (Surly stainless included)

**Headset/Steertube:** 44mm ID. Recommend EC44 lower cups. Zero Stack on top is o.k.

**Front derailleur compatibility:** High direct mount standard, clamp adapter included

**Bottom bracket shell:** 73mm shell width, threaded standard English (1.37" x 24t)

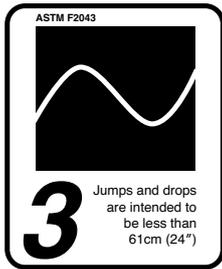
**Chainring clearance:** Triple 22/34/44t, Double 26/39t, Max single ring clearance, Middle position, 34t. Outer position 44t. (Triple will not work with Surly 50mm rim and 29 x 3.0" tire)

**Tire clearance:** 29 x 3.0"

**Fork:** TIG-welded custom butted 4130 CroMoly, 120mm suspension corrected, 1-1/8" steerer tube, 203mm disc brake clearance

**RETAILER:** This frame sheet MUST BE provided to the end user.

**INTENDED USE: CROSS COUNTRY, MARATHON, HARDTAILS**



**CONDITION 3**

Bikes designed for riding Conditions 1 and 2, plus rough trails, small obstacles, and smooth technical areas, including areas where momentary loss of tire contact with the ground may occur. NOT jumping. All mountain bikes without rear suspension are Condition 3, and so are some lightweight rear suspension models.

**INTENDED** For cross-country riding and racing which ranges from mild to aggressive over intermediate terrain (e.g., hilly with small obstacles like roots, rocks, loose surfaces and hard pack and depressions.) Cross-country and marathon equipment (tires, shocks, frames, drivetrains) are light-weight, favoring nimble speed over brute force. Suspension travel is relatively short since the bike is intended to move quickly on the ground.

**NOT INTENDED** For Hardcore Freeriding, Extreme Downhill, Dirt Jumping, Slopestyle, or very aggressive or extreme riding. No spending time in the air landing hard and hammering through obstacles.

**TRADE OFF** Cross-Country bikes are lighter, faster to ride uphill, and more nimble than All-Mountain bikes. Cross-Country and Marathon bikes trade off some ruggedness for pedaling efficiency and uphill speed.

**MAXIMUM WEIGHT LIMIT**

Rider	Luggage*	Total
Lb/kg 300/136	Lb/kg 5/2.3	Lb/kg 305/138

\*Seat Bag Only

**CARE AND MAINTENANCE**

Keep your frame clean. Dirt and road grime lead to oxidation and fading of the finish, and they make it hard to do a thorough inspection. Dirt will accelerate any abrasion of the paint that comes from rubbing, such as places where the cable housing touches the frame. In extreme cases, this type of abrasion could remove frame material. When your bicycle is not being ridden, store it where it will be protected from rain, snow, sun, etc. Rain or snow may cause the metal on your frame to corrode. We recommend applying J.P. Weigle's Frame Saver to the inside of the tubes before the frame is assembled into a bike. If your bicycle was exposed to moisture during a ride, thoroughly dry the bicycle before storing it. If water got inside the frame, tilt the bicycle to drain the water. If necessary, remove the seatpost and turn the bicycle upside down. This is especially critical if there is a large amount of water inside. If water freezes inside your frame, the expansion of the ice can crack and rupture the structure.

Before storing your bicycle for an extended period of time, clean and lubricate the frame with a frame wax, polish, or protectant. Do not store the bicycle near electric motors, as ozone from motors destroys paint. Before riding the bicycle again, follow the pre-ride checklist to be certain it is in good working order.

**INSPECTION**

Before every ride carefully inspect your frame for signs of fatigue. If any frame part shows signs of damage or fatigue, consult your dealer or replace the frame before riding the bicycle.

**⚠WARNING**—An improperly modified frame, fork, or component can cause you to lose control and fall.

NEVER MODIFY YOUR FRAMESET.

**⚠WARNING**—Attaching incompatible clamping devices to a fork can lead to fork breakage, causing a loss of control. If you are not sure if a device is compatible, consult your dealer

**FRAME SPECIFICATIONS:**

For current frame specifications visit [surlybikes.com/bikes/krampus\\_ops](http://surlybikes.com/bikes/krampus_ops)

**LIMITED WARRANTY:**

This SURLY product is warranted against defects in materials and workmanship for three years from the date of retail purchase of the product, subject to the limitations detailed below. Save your dated receipt for proof of purchase.

This warranty does NOT cover the following:

- Damage due to improper assembly or follow-up maintenance or lack of skill, competence or experience of the user or assembler
- Products that have been modified, neglected, used in competition or for commercial purposes, misused or abused, involved in accidents or anything other than normal use
- Installation of components, parts or accessories not originally intended for or compatible with bicycle as sold
- Damage or deterioration to the paint, surface finish, aesthetics or appearance of the product
- Normal wear and tear
- Labor required to remove and/or refit and re-adjust the product within the bicycle assembly

This limited warranty is expressly limited to the repair or replacement of a defective product, at the option of SURLY, and is the sole remedy of the warranty. This limited warranty applies only to the original purchaser of the SURLY product and is not transferable. This warranty applies only to products purchased through an authorized dealer or distributor. In no event shall SURLY be liable for any loss, inconvenience or damage, whether direct, incidental, consequential, or otherwise resulting from breach of any express or implied warranty or condition, of merchantability, fitness for a particular purpose, or otherwise with respect to our products except as set forth herein.

This limited warranty gives the consumer specific legal rights, and those rights and other rights may vary from place to place. This limited warranty does not affect your statutory rights.

TO THE EXTENT NOT PROHIBITED BY LAW, THESE WARRANTIES ARE EXCLUSIVE AND THERE ARE NO OTHER EXPRESS OR IMPLIED WARRANTIES OR CONDITIONS INCLUDING WARRANTIES OR CONDITIONS OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE.