

More than a bike : a LIFESTYLE

RIKULAU

雲豹 | 2019 CATALOGUE



www.rikulau.com



2019

RIKULAU

Rikulau– More than a bike: a LIFESTYLE

When Rikulau is mentioned, it is images of titanium, stainless steel and unique graphics that emerge. It is bike challenge and cycle tourism that flash across. It is a team that provides quality service that arise.

Rikulau was born out of love for cycling 12 years ago. It has since been shaped by the harsh outside world to its current status. Many naive thoughts were discarded. Many ideas have evolved. But, one fundamental belief never changed. At Rikulau, we are always convinced that bicycle can perfectly fuse into everyday life, and a cycling-centered lifestyle is possible.

In 2019, we expect more cycling stories are connected with Rikulau !

台灣雲豹 – 永續人生

提到雲豹，聯想到的，是鈦合金、不鏽鋼，是客製，是與眾不同的塗裝，是單車挑戰、旅行，是一群親切的服務團隊。

12 年前的熱情促成了雲豹自行車的誕生，12 年的歷練則形塑了雲豹的樣貌。有些想法，拋棄了，有些做法，演化了。不變的是，雲豹始終深信自行車可以完美地融入生活中，參與生活型態的建立。

2019 我們期待有更多美好的故事與雲豹連結！

RIKULAU

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RIKULAU

Our Footprints
足 跡

2 0 1 7

Four more Rikulau riders started their global bicycle adventure

四位雲豹勇士踏上他們的環球之旅

2 0 1 6

Tibet Challenge - 9 day 5 hours (female record)

Across Asia-Europe from Taiwan to Ireland continues

川藏挑戰女子組紀錄 9 天 5 小時

挑戰橫跨歐亞到愛爾蘭持續進行

2 0 1 5

Race Across America (RAAM) – relay (Taiwan Team); solo (Australia Team)

Finished Home2Home Taiwan to Cape Town, South Africa

Across Asia-Europe from Taiwan to Ireland

Conducted bike assembly courses to primary and high schools in the rural area

橫越美國(Race Across America-RAAM)接力賽(台灣隊)與個人賽(澳洲隊)

完成 Home2Home 台灣到南非

挑戰橫跨歐亞到愛爾蘭

三場偏鄉中小學自行車組裝教學訓練



In 2016, Rikulau has been to many places.

Ai-chin finished 2160 km of Tibet challenge in 9 days 5 hours. It is a new female’s record. “Red Hair” continues his “Silly or Serious” trip towards Ireland. However, he is seriously behind the schedule, and just arrived in Israel when he is supposed to finish the journey long time back. Shosho wrote a book “10,820,000 revolutions” about his adventure, and inserted “around the world” microchip into the readers’ brain socket. Eddie Chen rode along “Taiwan Cycling Route No. 1” completely, and wrote a report on it. He keeps promoting the concept of “trekking Taiwan – Taiwan looks more beautiful by bike”.

In 2016, young athletes from Jih-Nan Junior High School cycling team got many event medals, countless, with Rikulau bike, of course.

Cycle tourism in Taiwan kept booming in 2016. Dozens of groups completed their in-depth cycle tour in Taiwan on Rikulau rental bikes.

Among them are riders from Hong Kong, Japan, Macau, Singapore, Thailand and USA. They saw the beauty of Taiwan on quality Rikulau bikes.

2016 年，雲豹去了好多地方。艾清以 9 天 5 小時完成 2160 公里的川藏挑戰賽，創下女子組紀錄。探索生命的紅毛的行程嚴重落後，前不久才到以色列，不知何年何月才能到達目的地愛爾蘭。修修的環球大亂走故事透過「1082 萬次轉動」這本書而把環遊世界的晶片植入讀者的大腦中。Eddie 大哥完整地騎完環島一號線，而且還寫了路況報告，持續宣揚台灣用騎的最美的理念。

2016 年，日南國中的自行車小選手們又用雲豹拿了很多面獎牌，數不清了。

2016 年，自行車旅遊繼續發燒，數十個團體租用雲豹的車完成他們的寶島深度旅遊，其中包括新加坡、美國、澳門、泰國、日本、香港的朋友。他們見證了台灣的美，也體驗了雲豹的好。

Right from the start of Rikulau, we have committed to carry out our social responsibility by supporting local cycling development and other social activities. And we did.

在 Rikulau 成立之初，我們曾許諾，將透過支持地方自行車發展及參與其它社會活動，來實踐我們對社會的責任。

我們做到了。

Their dreams, Rikulau was in!



In the last few years, Rikulau had sponsored many organizations and individuals including self-challenging cyclists, remote-area schools, young couple that cycled around the world, and organizations that promote hiking and cycling. We even donated dozens of framesets to two student cycling teams. Currently, Rikulau holds the female record for Tibet challenge by bike. Rikulau is very proud to be with them in their adventure, and help them fulfill their dream.

In the years to come, Rikulau will keep the current pace, and further enlarge our involvement in social affairs.

幾年下來，我們贊助了許多相關的組織及個人，其中包括挑戰自我的庶民運動員 (PBP、LEL1400、Haute Route、川藏)、偏遠的小學、單車環遊世界的年輕人，以及推廣健行和自行車騎乘的組織；我們甚至提供了數十台車給兩個學生車隊。

目前自行車挑戰川藏線的最快紀錄為雲豹所擁有。Rikulau 為此感到自豪，且願意盡一切的努力協助車友們圓夢。未來還有很多個“幾年”要走，Rikulau 將持續現在的步伐，一步步地加深、加大我們對社會的參與和投入。



Persistence creates the eternal value!

車架製造

TECHNOLOGY

Production

Frame is the soul of a bicycle. To build a high quality frame, every detail counts. Shaping, cutting, heat treatment, welding, polishing and even the surface graphics make difference. A good frame is the result of an uncompromising attitude.

Titanium alloy is known to be difficult to work with. The stringent quality requirement on titanium has resulted in the persistence on the accuracy and the attitude of precision machining in frame building.

And this experience on titanium helped us on the work with other materials such as aerospace quality stainless steel. Behind every Rikulau frame is nearly two decades of frame building art, expertise and experience on titanium.

They are all made by the best frame builders in Taiwan. We care about every detail because we believe whole-heartly that "Persistence creates the eternal value!"

「車架是自行車的靈魂。」
要想打造一支優質的車架，必須專注於所有的細節，從塑形、切削、熱處理、焊接、精修，甚至到最後的外觀圖案製作，每道工法都不能馬虎，才能造就一台好的車架。

鈦合金是公認最難加工的材料，如果沒有對品質的堅持和追求精準的態度，絕對無法打造出上等的鈦合金車架。也因為有鈦合金的加工經驗，讓我們在面對其他高階管材時，具備了足夠的能力克服所有的問題。

每一台雲豹的車架皆承載著近二十年淬煉的鈦合金焊接專業和工藝技術，還有精益求精的堅持。我們對每一道工法的講究和要求，才是讓車架與眾不同的主要原因。

6Al-4V titanium and its sibling 3Al-2.5V titanium alloy have many similarities, including density, strength, corrosion resistance, durability, comfort, and...“good looking”. The major difference, however, is tensile strength. 6-4 has 30% higher tensile strength than 3-2.5 titanium.Rikulau is honored to be the first Taiwanese brand to own a 6Al-4V titanium product. Our 6-4 tubes are Made in Taiwan, and every tube has gone through precision extrusion, shaping, precision cutting, and then, heat treatment to release stress to ensure a perfect frame quality.

Titanium alloy has a very good combination of strength, corrosion resistance, durability, and...“high tech look”. Many consider it one of the finest high-performance bike frame material in the world. Every 3Al-2.5V titanium tube Rikulau uses is butted, shaped, precision cut, and then, heat treated to release stress to ensure a perfect frame quality. The combined processes make Rikulau frames different.

6Al-4V 與 3Al-2.5V 兩種鈦合金都兼具輕、強、防銹、耐用、彈性佳、舒適等功能與美感，散發出難以抵擋的獨特魅力。兩者最大的差別在於張力強度，6-4 鈦合金是 3-2.5 鈦的 1.3 倍。Rikulau 是第一個擁有 6-4 鈦合金車架的台灣品牌，使用的是在台灣製作的鈦合金管材，每支管都經過成形、精密切割以及熱處理應力釋放以確保雲豹的 6Al-4V 鈦合金車架的品質。

Titanium Alloy

3 2 5
T I

鈦合金兼具輕、強、防銹、耐用、彈性佳、舒適等功能與美感，散發出難以抵擋的獨特魅力。Rikulau 所用的每支 3Al-2.5V 鈦合金管都經過抽管、成形、精密切割以及熱處理應力釋放。世界級的加工品質才得以讓雲豹的鈦合金車架與眾不同。

R I K U L A U | Seamless Stainless Steel

Vulcan is a seamless tubing based on C465 stainless steel developed and patented by Carpenter, USA. It is a martensitic alloy that can be age-hardened through proper choice of heat treatment condition to enhance strength. It is now widely applied in the aeronautical and military industries. C465 is also the raw material Reynolds uses to develop 953 tubing. 953 is a welded tube, while Vulcan is the first seamless tubing made of C465 in the world. Tube-making and heat treatment are accomplished in Taiwan. Through chosen age-hardening heat treatment temperature, Rikulau is able to achieve a balance in tensile strength (about 1800 MPa) and good ductility on V9. Thus, Vulcan is eligible to build a race-oriented light-weight and stiff frame.

Kratos is based on C630 stainless steel developed and patented by Carpenter, USA. Its corrosion resistance is the best among all heat hardened stainless steel alloys. Besides, it has a very balanced tensile strength (nearly 1300 MPa) and ductility. And, it is seamless. Due to its extremely well workability, the material has been widely applied in many different fields including petrochemical, nautical, defense, aerospace and even nuclear. Kratos has the same property as Reynolds 931. However, as K6 is made and heat treated in Taiwan, tube selection is larger than 931. Therefore, with proper choice of tube size and thickness, K6 is suitable for frames of different functions.

「火神」超級不鏽鋼管是以美國不鏽鋼材料大廠卡本特公司的專利 C465 材料為基礎所開發的無縫管材。C465 是麻田散鐵系不鏽鋼，可以透過時效熱處理提高材料強度，目前已經大量運用在航太以及國防工業。C465 同時也是雷諾 953 的母材。雷諾 953 是焊接管，「火神 Vulcan」V9 則是全世界第一款 C465 無縫管。由於製管與熱處理在台灣完成，雲豹透過熱處理讓 V9 具有非常平衡的張力強度（接近 1800MPa）與韌性，因此能製成輕量且鋼性十足的管材，非常適合打造競賽用自行車。

Note: V9 and Reynolds 953 are made with the same C465 raw material.
備註 :V9 與 Reynolds 953 使用相同的原材料製成

「戰神」高強度不鏽鋼管是以美國卡本特不鏽鋼廠的專利 C630 材料為基礎所開發的無縫管材。C630 的張力強度（接近 1300MPa）與韌性取得非常好的平衡，而其耐腐蝕性則是所有熱強化不鏽鋼中的佼佼者（接近 302 與 304 不鏽鋼）。由於其加工特性非常好，因此廣泛運用在各種產業中，其中包含石化、船舶、國防、航太甚至核能工業等。特性與雷諾 931 相同，然而，由於製管與熱處理在台灣完成，管材的選擇較 931 更多，因此，透過不同外徑尺寸和厚度的選擇與控制，「戰神 K6」的應用更為廣泛。

Note: K6 and Reynolds 931 are made with the same C630 raw material
備註 :K6 與 Reynolds931 使用相同的原材料製成

RIKULAU MARS M3

Seamless Stainless Steel

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M3 is made based on duplex stainless steel. The material was developed in Sweden in the 1930s. It has a microstructure consisting of both austenite and ferrite phases. The material is widely applied in highly corrosive (e.g. marine and acidic) and high pressure (e.g. pressure tanks) environment.

When the strength and corrosion resistance of an austenite 316 stainless steel is not sufficient in an application, duplex stands out. M3 is not as strong as K6, but, it is higher than chromoly and 316 stainless. Its corrosion resistance is not as remarkable as titanium, but, it is far better than 304 or 316 stainless steel. The stiffness of M3 tubing is by no means comparable to V9, the price is also no comparison.

Frame made with M3 will never be a feather-light super stiff racing machine. However, in a harsh environment, any cyclist will prefer a reliable companion that does not need to be taken care of. M3 is worth expecting.

M3 是以 S32205 雙相不鏽鋼為基礎開發的無縫管材，瑞典在 1930 年代開發出雙相不鏽鋼，它是由奧氏鐵 (Austenite) 與鐵素體 (Ferrite) 兩種不同結晶共同組成，這個材料被大量運用於高腐蝕性 (例如海水、酸性液體) 與高壓 (例如壓力容器) 的環境下。

當 316 不鏽鋼的強度與抗腐蝕性不符合需求時，雙相鋼成為替代的重要選擇。

M3 的強度不及 K6，但是，超過鉻鉬鋼以及高階 316 不鏽鋼；防鏽能力不及鈦合金，但是，遠優於 304 以及 316 不鏽鋼；M3 管材無法達到 V9 的剛性，但是，價格與 V9 有天壤之別。M3 製成的車架絕對不會是又輕又強的比賽機器，但是，在惡劣的環境中，任何騎士都會需要一台可靠而且不太需要照顧的夥伴 – M3 值得期待。

Hercules

Premium Grade Cr-Mo

Released in 2013, Rikulau Hercules steel tubeset is the newest addition to the Rikulau family. The raw material is from the renowned Nippon Steel (Japan). But, precision extrusion, heat treatment and all other processes are done in Taiwan to assure the precision required by Rikulau. The new tubeset belongs to the 4130 CrMo family, but it behaves very differently from its close relatives. And, the frame built with it is, of course, beyond comparison.

雲豹海克力士頂級合金鋼
2013 年雲豹推出的海克力士頂級合金鋼管，原料來自日本新日鐵 (Nippon Steel)。後續的精密抽管、加工以及熱處理則在台灣完成以確保管材的尺寸與精度能符合雲豹的需求。因此，雖然這個鋼種仍然歸為 4130 鉻鉬鋼，但是，它的特性與功能與一般的 4130 已經大相逕庭，當然，所製作的車架也絕非一般市面上的 4130 車架所能比擬。

Reynolds

520

Cr - Mo

520 is the entry level chrome-moly tube set from Reynolds. It is made in Taiwan. It contains 0.3% of carbon which is the same as 631 and 725 series Reynolds tube sets. Chromium increases hardness and oxidation resistance. Molybdenum and Chromium together enhances tube strength. 520 is vastly applied in racing car chassis, motorcycle and bicycle frames. The strength and ductility of the tube vary according to the cold work processes undergone.

520 是雷諾在台灣製作的入門鉻鉬鋼管，內含 0.3% 的碳，鉻提高硬度並且抗氧化，鉬和鉻則共同提升管材的強度。520 大量運用在賽車與摩托車的骨架以及自行車的車架。520 的強度與韌性會因為冷加工而改變。

TECHNOLOGY

Frame Design
車架設計



Bicycle and the rider is an integrated system that, when matched properly, achieves the highest level of efficiency. On the contrary, the best bicycle would mean nothing but an expensive toy if it does not fit the rider. In the design of a frame, key issues are geometry and stiffness.

Rikulau's frame geometries were designed based on the human body structure. For most riders, Rikulau's standard frames can meet their size requirement. For racing oriented models such as Rikulau Vulcan V9 and Master series titanium frames, maximum power output is of great concern. Relative position between the saddle and the pedal becomes essential to guarantee the best pedaling efficiency. On the contrary, more upright riding position to provide more comfort is the focus in the design of leisure models.

Frame stiffness is the other main issue in a frame design. Tubing material and shape are the decisive parameters on frame stiffness. For racing performance oriented frames, a stiff bottom (down tube + BB + chainstay) to counteract the powerful pedaling and a strong head tube to resist pull-and-push by the rider are essential. Rikulau's Master series frames were designed with these factors in mind. Tapered head tube, oversized down tube and specially shaped chainstays ensured the stiffness of the frame, and made Rikulau riders race contenders. Our V9, however, rely on the superb properties of the material and the careful selection of the existing tubing to achieve this goal. However, absolute stiffness ≠ the best frame. Enough is enough.

自行車跟騎士之間的關係，好比是一套整合的機器系統，若彼此之間配合得宜，就能獲得最好的功效。一部不適合騎士的車架，儘管性能再怎麼卓越，充其量也不過是個昂貴的大玩具罷了。在車架設計上，幾何和車架剛性是兩個重點。

Rikulau 的車架幾何，是以實際的人體結構為依據。因此，對於絕大部分的車友而言，只要有足夠的身材量測資料，就能在雲豹的標準尺寸中找出合適的車架。以競賽公路車為例，雲豹的火神 (Vulcan V9) 跟鈦合金大頭管系列車架，在幾何設計上以有效提供最大的輸出功效為考量，確保在踩踏效能的表現。相對地，休閒性較高的車種就以增加騎車時的舒適度為設計考量。

剛性是另一個車架設計的重點，而車架材料和管形的選取則決定車架的剛性。

一部強調輸出功率表現的車架，需要有個堅實的下盤（下管 + 五通 + 後下叉）和強硬的頭管來抗衡騎士抽車踩踏和拉扯時所產生的強烈作用力，Rikulau 的鈦合金 Master 系列車架，也是因此而生。喇叭型的頭管、加大的變形下管和後下叉，提升鈦合金車架的鋼性。

而 Rikulau V9，則是仰仗著優越的材料特性，在既有的管形上就能達到相同的表現。

當然，絕對的剛性 ≠ 最好的車。萬事萬物，適可而止。

TECHNOLOGY

Graphic Design

塗裝設計

Rikulau bicycles are known for the artistic and cultural graphics design and custom painting. Essential abilities for achieving the accomplishments are:

Rikulau 的自行車，一直以來都是以極具藝術與文化的圖裝設計和傳統彩繪而聞名遐邇。

要實現這些設計，雲豹掌握了一些關鍵能力：

2

Color choices

【色彩豐富性】

Custom color is another key ability that Rikulau embraces. We have built up a system of color mixing equipment that can create, basically, unlimited colors. When you see a Rikulau with so special a frame color flies by, believe in what you see. It is real !

雲豹建立了本身的混色配方，基本上所有的顏色都能配得出來。也許哪天穿上特別顏色的雲豹會從你的身邊飛馳而過，屆時請相信你雙眼所見，那是真的

1

Paint Adhesion

【烤漆附著性】

Rikulau is known for its titanium and stainless steel products. Unfortunately, these two materials are known to be difficult to paint. The paint simply strips off like orange peel. Our painting team overcame the problem so that colorful designs are fulfilled on titanium and stainless steel frames.

雲豹的代表性產品就屬「鈦合金」和「不鏽鋼」，而這兩種材質同時也是最難上色的，烤上去的漆就像橘子皮一樣輕易剝落。Rikulau 的烤漆團隊成功地克服了鈦合金和不鏽鋼的附著力問題，讓多采多姿的設計能在這兩種材質上呈現。

3

Other surface treatment techniques

【其他表面處理方式】

Other than painting, Rikulau provides sand blasting, anodizing, and even laser carving as surface processing tools to implement the designs. Admiration for beauty and delicacy of the graphics is the only purpose of all the complicated processes.

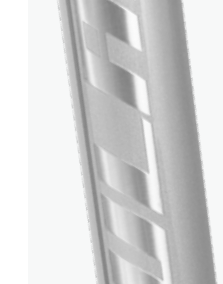
除了烤漆之外，雲豹也提供其它的表面處理方式，例如噴砂、電鍍、雷射雕刻來呈現非常藝術的設計。每種技術都牽涉非常繁複的程序，所圖，只是車友對於車架所呈現的美和精緻所發出的讚嘆。



【BK/P-01】
曜岩黑
Obsidian black



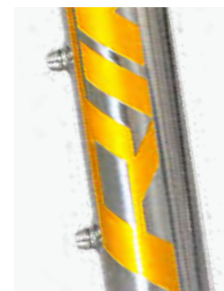
【S/P-02】
鈦晶灰
Titanium gray



【S/P-01】
銀灰
Metallic silver



【W/P-01】
珍珠白
Pearl white



【GD/M-01】
金塊黃
Nugget gold



【B/T-04】
寶石藍
Sapphire blue



【R/T-02】
寶石紅
Sapphire red



【R/R-01】
石榴紅
Bright red



【P/P-01】
蜜桃粉
Panther pink



【O/P-01】
熱帶橙
Tangerine yellow



【Y/P-01】
檸檬黃
Lemon yellow



【G/P-01】
蘋果綠
Apple green



【B/P-01】
地中海藍
Azure blue



【B/P-02】
午夜藍
Midnight blue



【B/P-03】
普魯士藍
Prussian blue



【PU/P-01】
葡萄紫
Grape violet

RIKULAU

雲豹

It is the best climber in the cat family, the most agile and acrobatic animal in the densest forests of Asia. It is the mirage that darts among the woods in lightening speed. Blurred shadow is what left to be glanced.

Mount on a Rikulau, and it becomes the most powerful and efficient extension of your body. No matter where you are heading to, Rikulau takes you there with speed and elegance.

In this design, frightening eyes of the animal on down tube give power to the frame. Nebulous pattern of the animal closely simulates a leopard lying on the bike frame. Moreover, the ancient Chinese character “Leopard” gives an artistic touch to the design.

Rikulau 即「雲豹」，擅長攀爬，其靈敏矯捷的身手堪稱貓科動物之最。幻魅般的身影，綴上一雙孟宗竹般的墨綠色豹眼，它就像一抹帶著墨綠閃電的雲扶掠綿密的亞洲叢林，且像風一樣自由地穿梭其中，徒留瞬影，叫人難辨真身。

在設計的部份，獨特的雲狀豹紋替車架妝上大自然的保護色，下管一雙劃破一切偽裝的銳利豹眼，隱隱流瀉出待機而動的爆發力。中管一個俐落的「豹」字，鮮明的勾勒出雲豹的體態。在細節的處理上，更是呈現出手工彩繪般的視覺驚豔。

披上雲豹圖裝的車架，充滿了野性的生命力，濃郁的藝術氣息符合美學當中任何一個值得誇耀的因子，是「力」與「美」的最佳代名詞。





PHOENIX

浴火鳳凰

Phoenix - a mystical sacred firebird in both ancient Eastern and Western mythologies. At the end of its life-cycle, the bird burns itself and, then, arises as a new entity from the ashes. It is, therefore, considered symbol of immortality and regeneration.

Phoenix was selected as a theme of the Rikulau frame design because of its immortal and invincible image. The design was inspired by Chinese opera face painting. In the design, the wings of the bird flaps through the turbulence of the flame, and boost the bike forward to the sky.

Phoenix，譯為浴火鳳凰，在埃及神話中 Phoenix 是不死鳥，每隔五百年左右便引火自焚，並從灰燼中重生，是以 Phoenix 象徵著「重生」以及「永恆」。

台灣雲豹的金屬車架，必需經過熾焰的淬煉，方能去蕪存菁成為櫥窗裡令人不禁多看一眼的精品。 Phoenix 褪去一身烈焰後重新展現的強韌生命力，最能呼應我們對產品的堅持。圖裝設計是以抽象的手法刻印鳳凰的體態，在視覺上保留了寬闊的想像空間，層次鮮明的鳳翼曳著飄逸的鳳尾，更是展現出翱翔天際的氣魄。

FALCON

隼

In the ancient Egypt, falcon was one of the spirits to be worshipped. Due to its perfect body structure for flying, falcon is the fastest-moving creature on Earth. And it is named “the most beautiful predator”.

In the “Falcon” design, North American aboriginal wall painting patterns were used to represent aerodynamic shape of the bird. The fiercing eyes on both sides of down tube gave life to the whole design. On the other hand, “falcon” in Chinese character perfectly fused with the figure of the bird on the seat tube.

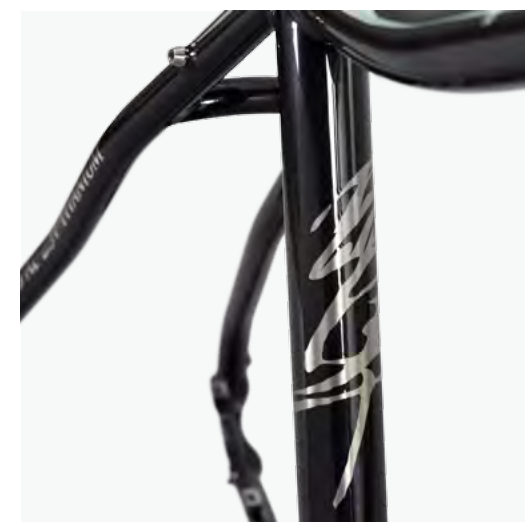
Falcon represents speed and precision. It is destined to be the best hunter in the survival arena. For those who are always seeking for top honor, Falcon is for you!

Falcon，隼，為鳥類中俯衝飛行速度最快的保持者，在古埃及是備受崇拜的神靈之一。

完美的流線體態、一身的傲骨、懾人的雙眼，被譽為世上最美麗的狩獵者。圖裝的表現上，上管的字型設計，主要是融合了鷹隼的身形概念，藉著流暢的曲線表現其鋒銳的企圖。

兩道子彈般身形的鷹隼，則以鏡射的方式分佔下管兩側，那雙凝望遠方靈活的招子，替圖裝添了一分生氣。最後，落在中管上結合了中國象形造字概念的「隼」字圖文，展現了十足的中國意象。

象徵著「極速」的隼，眼睛永遠照準著最高的榮耀，要在競技場上當個頂尖的狩獵者，鷹隼絕對是你最好的拍檔。



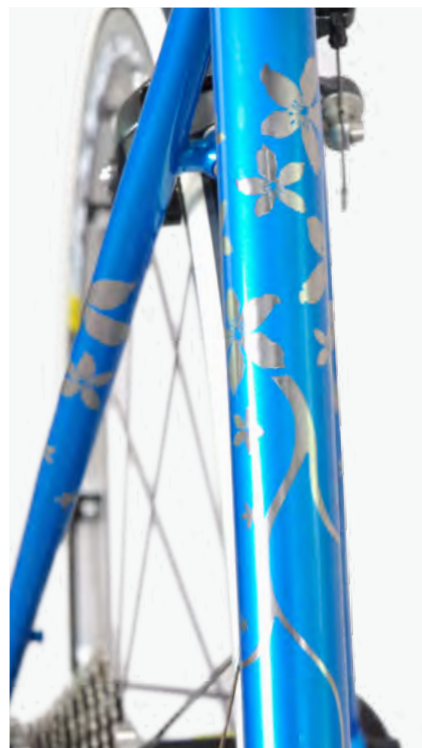


Tung Flower (*Aluerites fordii* Hemsl) is associated with Hakka people in Taiwan due to its plantation for the high valued oil . It became the main character of the most romantic cultural ceremony in Taiwan after it stepped down from the economic arena. During the blossom season in April and May, white flowers ornamented the whole mountain of green in northern Taiwan. In the trails underneath, it carpeted the ground just like snow. Therefore, tung flower was given a poetic name of “May Snow”. In Rikulau’s May Snow graphics design, tung flowers spotted the frame just like the flowers floating in the creek and dancing along the flow.

每年的四到五月，一場不合時節的雪靜悄悄地落下，一片由桐花所打造出來的雪景，讓北國的浪漫在台灣的山林小徑間蔓延開來。桐花因其充滿了詩意的美感，而有了五月雪的雅稱。

油桐樹在百年前引進台灣，由於油桐樹的經濟價值高，早年很多客家部落都積極栽種，桐花也因此與客家產生了聯結，成為台灣客家文化的一環。

當油桐樹步下經濟舞台之後，遍佈山林的桐花卻意外成為最美的文化使者。桐花豐富的藝術以及文化意涵，正好符合台灣雲豹對圖裝設計上的要求。散佈在車身上的叢白花朵，彷彿飄落於溪澗上的五月紛雪，揮發著如詩一般的美感。



MAY SNOW - TUNG FLOWER

桐花

AGILITY

敏捷

Rikulau's graphics design has always been known for its cultural and artistic content. From the early design of Nebula and Patada to the latest Illusion and Fantasia, traces of cultural and/or artistic elements are easily observed. "Agility", however, has a completely different style. Clean and modern design switched the focus from the graphics back to the bike itself. In return, it emphasized the character of the product.

In fact, "Agility" = Rikulau!

雲豹的塗裝設計以文化和藝術見長，從最早的星雲、百步蛇，到後期的隱、幻想曲都能看到文化或藝術的元素。

「敏捷」則走出完全不同的風格，簡潔又現代的設計把焦點從塗裝回歸到自行車本身，也帶出了雲豹產品「敏捷」的特質。

事實上，「敏捷」= 雲豹！



The design concept of "Illusion" follows the artistical style of Master Vasarely, who is recognized as one of the most important artists of the 20th century, and the leader of the Optical Art movement. Presentation skills such as segmentation, distortion and projection are all used in the design to arouse 3D illusion from planar graphics. Rikulau's trade mark and brand name are also hidden in the design. They not only constitute a part of the structure but are also the main elements of illusive effect. The looming graphics added mystical effects to the bicycle frame.

「隱」(Illusion) 的塗裝師法歐普藝術 (視覺藝術) 之父 - 瓦沙雷利的創作風格，在構成上運用了分割、變形、透視等視覺藝術的表現手法，在二維平面中引發出多次元錯視 (視覺與錯覺) 的效果。

雲豹的品牌名稱與商標也「隱」藏在設計之中，不僅是構圖的一部分也成了創造錯視的主要因子。若「隱」若現的圖樣為車架添加了難以捉摸的神祕特效。

貼標版本的「隱」會運用在 853 的車架上，而噴砂與拋光版本則會出現在雲豹的鈦合金與不鏽鋼產品上。

ILLUSION

隱



BUTTERFLY

蝴蝶

Butterfly is a graceful dancer. “Graceful” may not be the right word to describe a LUG bike. However, it is a perfect term for a 931 stainless steel LUG bike. It gives an unbelievable feeling of speed and easiness.

Butterfly design is simple. Black and white lines depict the veins and contour of a butterfly's wing. Large portion of the frame remained polished and clear. It represents the grassland, the sky or the garden. The layout is ecologically meaningful as the colorful butterfly dazzles around, but, it spends most of the time residing on flowers. It never steals the charm of the main character, but, in unnoticed corners, a butterfly may give unexpected joy.

蝴蝶所代表的是輕盈的舞者。

對於 LUG 的鋼管車架而言，輕盈並不是最貼切的形容詞，但是，931 不鏽鋼所打造的 LUG 車架卻受之無愧，因為騎上 931 的 LUG 車，您會有難以置信的輕快感！這款塗裝很簡單，以局部的黑色和白色刻畫出蝴蝶翅膀的紋理和輪廓，大片的拋光面則是大地、是天空、是草原。

整體的構圖符合蝴蝶的生態習性，它翩翩起舞，但是大部分的時間都隱匿在花叢中，不搶主角的風采，卻在不起眼的角落給人無限的驚喜。

Medieval style laurel shape graphics is simple and sincere. It is detailed but not burdened. Without excessive decoration, ROYAL reviewed a nobly nature.

中世紀風格的桂冠式的圖騰，簡單卻不失莊重，細緻卻不見累贅，不需要太多額外的襯托。

「尊榮」就呈現出皇室般的高雅質感。

ROYAL

尊榮



ROAD

Master 64Ti	34
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PRODUCT

產 品 款 式

On the product page, look for the icon representing PAINTING and SAND BLASTING finishing.
在後續的產品款式中，以下圖示分別代表「烤漆」和「噴砂」這兩種表面處理方式



MASTER 64Ti

SAMPLE GRAPHIC-FALCON



The design of Master series titanium frame emphasizes “Racing”. Therefore, stiffness and stability were the factors of concern. The design in the Master series solved the problem of lack of stiffness commonly found on titanium frames. Master Ti64 is a bike with power and speed.

Master 系列鈦合金車架的設計是以競賽為主要訴求。因此，車架剛性以及穩定性就成了最主要的考量點。Master 的整體設計彌補了一般鈦合金車架最受詬病的側向剛性不足的問題。對於競賽型的騎士而言，Master Ti64 是個戰力十足的坐騎。



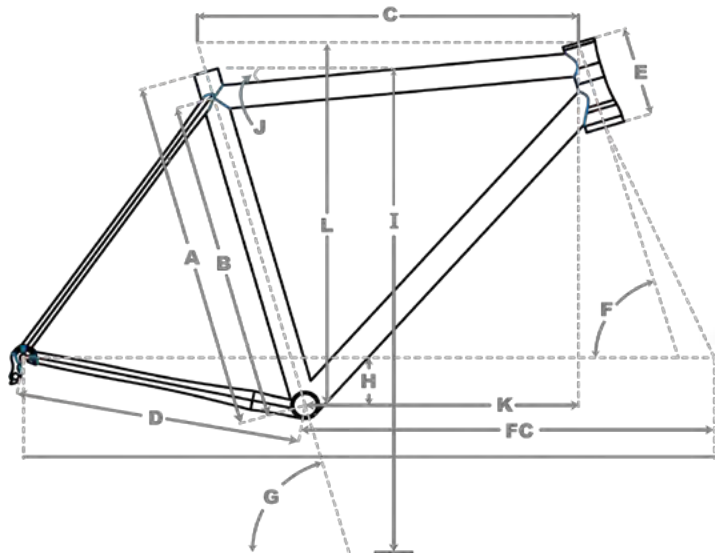
SAMPLE GRAPHIC-RIKULAU

F E A T U R E S

- Electronic + Mechanical Duo-Shifting System ready
- T-47BB for higher stiffness
- Internal rear brake cable routing
- Tapered headtube for 1.25” differential fork steerer
- 機械 / 電子變速兩用車架
- T-47BB - 增加車架下盤剛性
- 隱藏式後煞車走線 - 上管走線俐落，增進美觀
- 1 1/4 taper 頭管 - 增加車架剛性；增加過彎穩定性

SPECS

	Shimano Dura Ace Sram RED	Shimano Ultegra SRAM Force	Shimano 105 SRAM Rival
FRAME	6AL-4V titanium for 1 1/4-1 1/8 tapered fork	6AL-4V titanium for 1 1/4-1 1/8 tapered fork	6AL-4V titanium for 1 1/4-1 1/8 tapered fork
FORK	Rikulau Tapered Fork	Rikulau Tapered Fork	Rikulau Tapered Fork
SEATPOST CLAMP	Titanium CNC	Alloy CNC	Alloy CNC
HEADSET	FSA NO.42 Carbon	FSA No. 42	FSA No. 42
GROUPSET	DuraAce (50x34T, 11-30T) Red (50x34T, 11-32T)	Ultegra (50x34T, 11-34T) Force (50x34T, 11-32T)	105 (50x34T, 11-34T) Rival (50x34T, 11-32T)
CHAIN	KMC X11EL-1	KMC X11EL-1	KMC X11-1
WHEEL SET	Mavic KSYRIUM PRO 25	Mavic KSYRIUM ELITE 25	Mavic KSYRIUM ELITE 25
TIRES	Mavic Yksion Pro UST 25	Mavic Yksion Pro UST 25	Mavic Yksion Pro UST 25
HANDLEBAR	FSA K-Force Compact Carbon	FSA Energy Compact	FSA Gossamer Compact
GRIP/BAR TAPE	Pu Bar Tape	Pu Bar Tape	Pu Bar Tape
STEM	FSA OS-99 Carbon	FSA Energy	FSA Afterburner
SEAT POST	FSA K-Force SB25, 31.6 mm	FSA SL-K SB20, 31.6mm	FSA Energy SB20, 31.6 mm
SADDLE	Selle Italia SLR Lite Flow	Selle Italia Flite Friction Free Flow	Selle Italia X1 Flow



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	K	L	W
XS	450	410	510	408	105	71	74	68	367.5	496.9	1.27
S	490	450	525	408	115	71.5	74	68	379.3	508.1	1.32
M	520	480	540	408	135	72	73.5	68	383.4	528.8	1.34
L	550	510	555	410	155	72.5	73	68	387	549.5	1.44
XL	580	540	570	410	170	73	73	68	397.1	565.6	1.50
XXL	600	560	585	410	185	73	72.5	68	402.2	579.9	1.55

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (kg)
- 2.Integrated head tube for 1 1/8" - 1 1/4" fork steerer
- 3.Tubing: Rikulau Seamless 6AL-4V Butted Titanium Tubeset
- 4.365 mm fork length; 43 mm rake
- 5.31.6 mm seat post

MASTER 325Ti

SAMPLE GRAPHIC-SIMPLE



The design of Master series titanium frame emphasizes “Racing”. Therefore, stiffness and stability are the basic requirements. For serious racers, Master 325Ti helps reduce minutes.

Master 325Ti disc is the most advanced, technologically and conceptually, among all Rikulau products. The main triangle is built with pneumatic hydro-formed hexagonal tubes, and inner tubing of shifter/brake housings is standard.

Master 系列鈦合金車架的設計是以競賽為主要訴求，車架剛性以及穩定性就成了最基本的條件，對於競賽型的騎士而言，Master 是個能幫騎士加分的戰馬。

Master 325Ti 是雲豹最前衛的產品，前三角管材採用六角形液壓成型管，而且變速以及剎車線可走管材內部。



F E A T U R E S

- Tubing: 3Al-2.5V hydro-formed hexagonal tube; stress release by heat treatment after shaping
- Tapered 1 1/4” head tube: provides stiffness and cornering stability
- Hexagonal down tube and PF-30 BB shell: increase frame stiffness and versatility in crank axel choices
- Electronic/Mechanical dual shifting system: the frame has settings for both shifting systems
- Shifting/braking dual routing system: the frame has settings for both inner and outer housing routing stems

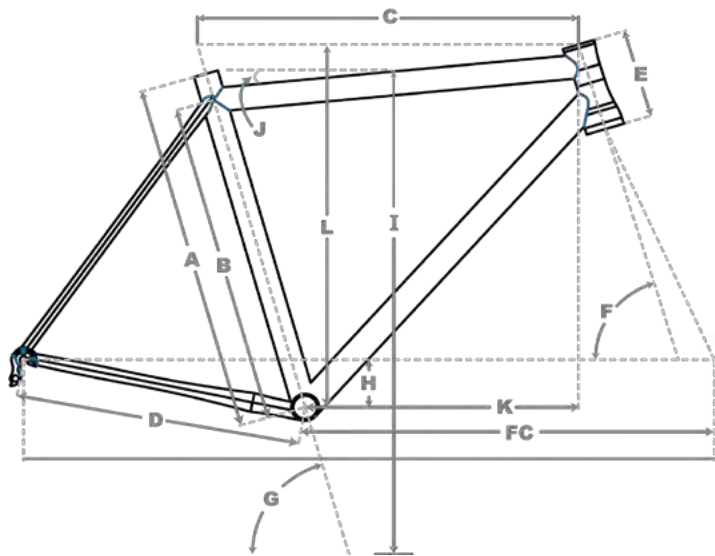
- 管材：3Al-2.5V 鈦合金液壓成型管；成型後進行熱處理以消除殘餘應力
- 梭形頭管：使用 1 1/4 吋 taper 前叉，增加剛性以及過彎的穩定性
- 六角形液壓下管與 PF-30 BB shell: 增加車架之下盤剛性並增加大盤軸心選用的彈性
- 電子 / 機械變速兩用：預留電子變速系統內線走線孔，同時提供可拆式機械變速止栓固定座
- 剎車系統：C 夾



SAMPLE GRAPHIC-SIMPLE

SPECS

	Shimano Dura Ace Sram RED	Shimano Ultegra SRAM Force	Shimano 105 SRAM Rival
FRAME	3Al-2.5V titanium for 1 1/4-1 1/8 tapered fork	3Al-2.5V titanium for 1 1/4-1 1/8 tapered fork	3Al-2.5V titanium for 1 1/4-1 1/8 tapered fork
FORK	Rikulau Fork	Rikulau Fork	Rikulau Fork
SEATPOST CLAMP	Titanium CNC	Alloy CNC	Alloy CNC
HEADSET	FSA NO.44 Carbon	FSA NO.44	FSA NO.44
GROUPSET	DuraAce (50x34T, 11-30T) Red (50x34T, 11-32T)	Ultegra (50x34T, 11-34T) Force (50x34T, 11-32T)	105 (50x34T, 11-34T) Rival (50x34T, 11-32T)
CHAIN	KMC X11EL-1	KMC X11EL-1	KMC X11-1
WHEEL SET	Mavic KSYRIUM PRO 25	Mavic KSYRIUM ELITE 25	Mavic KSYRIUM ELITE 25
TIRES	Mavic Yksion Pro UST 25	Mavic Yksion Pro UST 25	Mavic Yksion Elite 25
HANDLEBAR	FSA K-Force Compact Carbon	FSA Energy Compact	FSA Gossamer Compact
GRIP/BAR TAPE	Pu Bar Tape	Pu Bar Tape	Pu Bar Tape
STEM	FSA OS-99 Carbon	FSA Energy	FSA Afterburner
SEAT POST	FSA K-Force, SB25, 27.2 mm	FSA SL-K, SB20, 27.2mm	FSA Energy, SB20, 27.2mm
SADDLE	Selle Italia SLR Lite Flow	Selle Italia Flite Friction Free Flow	Selle Italia X1 Flow



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	K	L	W
XXS	425	385	499	408	115	70	73.5	68	349.1	505.3	1.56
XS	450	410	507	408	115	71	73.5	68	356.7	508.8	1.59
S	490	450	519	408	120	71.5	73.5	68	366.1	515.2	1.62
M	520	480	536	410	135	72	73	68	373.9	531.2	1.66
L	550	510	552	410	155	72	73	68	384	550.2	1.72
XL	570	540	566	415	170	72	73	68	393.2	564.5	1.75
XXL	590	560	579	415	185	72	73	68	401.9	578.7	1.78

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (grams)
- 2.Integrated head tube for 1 1/8" - 1 1/4" tapered fork steerer
- 3.Tubing: Rikulau Hydro-formed Seamless 3Al-2.5V Butted Titanium Tubeset
- 4.365 mm fork length; 43 mm rake
- 5.27.2 mm seat post

MASTER V9

SAMPLE GRAPHIC-PHOENIX



SAMPLE GRAPHIC-PHOENIX

Vulcan (V9) stainless steel is based on C465 stainless steel developed and patented by Carpenter, USA. It is the first seamless C465 tube ever made. The tensile strength can reach about 1900 MPa through heat treatment. It is the strongest material second to carbon fiber used on bicycle frame building. Master V9 road frame stiffness was enhanced by increase of down tube diameter. It is the most stiff frame among all Rikulau products. V9 road frame is a race warrior. It is not a product for everyone.

雲豹火神 V9 不鏽鋼是以美國不鏽鋼材料大廠卡本特公司的專利 C465 材料為基礎所開發的無縫管材（世界第一款 C465 無縫管），張力強度可透過時效熱處理提高到 1900 MPa，在現有自行車市場上強度僅次於碳纖維。

V9 不鏽鋼公路車加大下管，提升剛性，V9 是雲豹所有車種中剛性最好的一款，這是一台霸王級的賽事悍將。實力不足的車友，請勿輕易試騎。

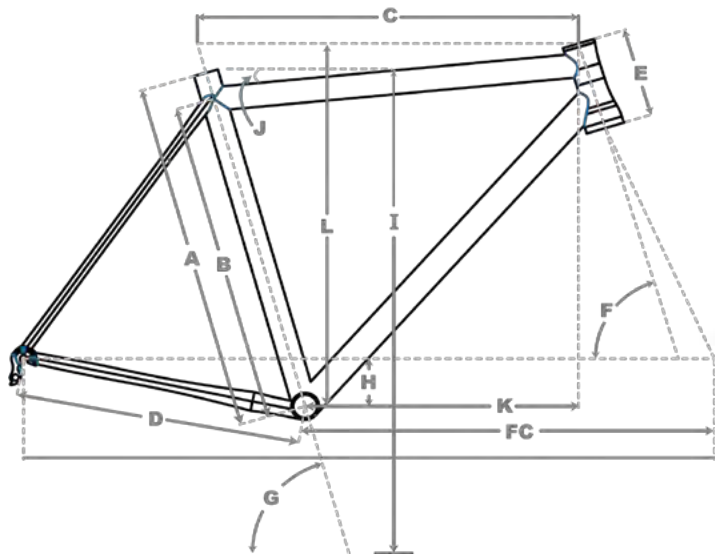
FEATURES

- Integrated headtube – higher stiffness
- Increased down tube diameter to enhance frame stiffness
- Whole frame aged after welding for increased frame stiffness and homogeneity
- 1. 隱藏式頭管 – 提升頭管剛性；增加現代感
- 2. 加大下管 – 增加車架下盤剛性
- 3. 車架時效熱處理 – 車架完成後進行熱處理，增加剛性以及整體強度一致性

SPECS

	Shimano Dura Ace Sram RED	Shimano Ultegra SRAM Force	Shimano 105 SRAM Rival
FRAME	Rikulau 465 frame with 1 1/4 standard fork	Rikulau 465 frame with 1 1/4 standard fork	Rikulau 465 frame with 1 1/4 standard fork
FORK	Rikulau Fork	Rikulau Fork	Rikulau Fork
SEATPOST CLAMP	Titanium CNC	Alloy CNC	Alloy CNC
HEADSET	FSA NO.44 Carbon	FSA NO.44	FSA NO.44
GROUPSET	DuraAce (50x34T, 11-30T) Red (50x34T, 11-32T)	Ultegra (50x34T, 11-34T) Force (50x34T, 11-32T)	105 (50x34T, 11-34T) Rival (50x34T, 11-32T)
CHAIN	KMC X11EL-1	KMC X11EL-1	KMC X11-1
WHEEL SET	Mavic KSYRIUM PRO 25	Mavic KSYRIUM ELITE 25	Mavic KSYRIUM ELITE 25
TIRES	Mavic Yksion Pro UST 25	Mavic Yksion Pro UST 25	Mavic Yksion Pro UST 25
HANDLEBAR	FSA K-Force Compact Carbon	FSA Energy Compact	FSA Gossamer Compact
GRIP/BAR TAPE	Pu Bar Tape	Pu Bar Tape	Pu Bar Tape
STEM	FSA OS-99 Carbon	FSA Energy	FSA Afterburner
SEAT POST	FSA K-Force SB25, 27.2 mm	FSA SL-K SB20, 27.2mm	FSA Energy SB20, 27.2mm

SADDLE	Selle Italia SLR Lite Flow	Selle Italia Flite Friction Free Flow	Selle Italia X1 Flow
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- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	K	L	W
XXS	450	410	500	408	115	71	75	70	363.8	508.4	
XS	485	445	510	408	115	71.5	74	68	364.3	508.1	1.44
S	500	460	525	408	125	72	74	68	376.1	519.3	1.46
M	515	475	540	408	135	72.5	73.5	68	382.87	530.5	1.5
L	535	495	555	410	150	73	73	68	387.93	546.5	1.55
XL	555	515	570	410	165	73	73	68	398.6	560.8	1.6
XXL	575	535	585	415	180	73	72.5	68	403.7	575.1	1.65

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (grams)
- 2.Integrated head tube for 1 1/8-1 1/4" fork steerer
- 3.Tubing: Rikulau Vulcan V-9 stainless steel
- 4.365 mm fork length; 43 mm rake
- 5.27.2 mm seat post

AUDAX 325Ti

SAMPLE GRAPHIC-#18



Audax series frames are designed for long distance road riding. Comfort, standard BSA BB shell and rack mount are all the considerations for the actual needs of a long distance rider.

Like all Rikulau products, stiffness and stability are the basic requirements. High quality tube processing and heat treatment are the must, but, no fancy CNC carving or hydroforming are applied to Audax Ti325 to make it a very practical and yet not costly choice.

The graphics design is named #18. It simply means a new attempt in 2018 to add a little bit of change to the normally applied low-key sand blasting process. The design is simple but with taste. Light brown matches the elegance of the metal.

Audax 系列車架設計是以長距離公路騎行為主要訴求，因此，除了剛性以及穩定性的基本需求之外，舒適性、標準鎖牙式五通及貨架孔的設置，都是以實際需求為考量的設計。

AudaxTi325 的管材品質與處理方式與雲豹最高階的 Master 系列相同，但是，少了 CNC 雕刻和液壓成型等外觀的設計。因此，這是個非常實用且實惠的產品。

塗裝命名為 #18，意指 2018 年式小改款，跳脫以往鈦合金常見的低調性格，改用貼標後烘烤的方式呈現出簡單大方卻又不失其金屬質感，沒有花俏的圖案，僅是一抹深褐色，為其增添不同的風格。

- Tubing: 3Al-2.5V double butted; stress release by heat treatment after shaping
- 44 mm straight tube head tube: provides stiffness and cornering stability when used with 1 1/2" fork; with proper choice of headset, 1 1/4" fork can also be used.
- Standard BSA bottom bracket: easier to maintain in a long distance trip
- Rack mount: rack mount on seat stays and dropouts

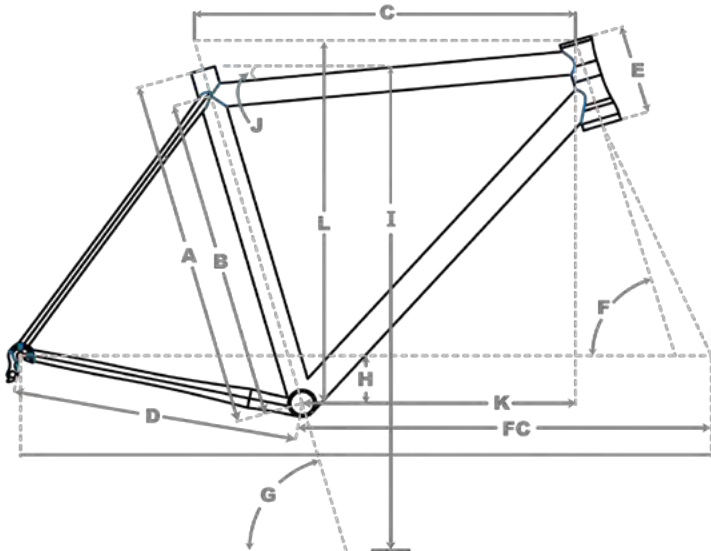
- 管材：3Al-2.5V 鈦合金雙抽管；成型後進行熱處理以消除殘餘應力
- 44mm 直筒頭管：標準款使用 1 1/2" 前叉，增加剛性以及過彎的穩定性；
- 必要時，可透過合適的車頭碗組選擇，而使用 1 1/4" 的前叉
- 標準鎖牙式五通：長途騎乘時，減少維修的複雜度
- 貨架孔：後上叉預留貨架孔，方便長途騎行使用



SAMPLE GRAPHIC-#18

DISC - BRAKE	
	Shimano 105 SRAM Rival
FRAME	3Al-2.5V titanium, Butted tubing
FORK	Rikulau carbon fork
SEATPOST CLAMP	FSA Orbit ITA
HEADSET	Alloy CNC
GROUPSET	Shimano 105 (50 x 34 T, 11-34T)
BRAKE	Juin-tech F1
CHAIN	KMC X11-1
WHEEL SET	DT E1800 Disc
TIRES	Maxxis Columbiere 700*25C
HANDLEBAR	FSA Gossamer Compact
GRIP/BAR TAPE	Pu Bar Tape
STEM	FSA Afterburner
SEAT POST	FSA Energy, SB20, 27.2mm
SADDLE	Selle Italia X1 Flow

C - BRAKE	
	Shimano 105 SRAM Rival
FRAME	3Al-2.5V titanium, Butted tubing
FORK	Rikulau Fork
SEATPOST CLAMP	FSA Orbit ITA
HEADSET	Alloy CNC
GROUPSET	Shimano 105 (50 x 34 T, 11-34T)
CHAIN	KMC X11-1
WHEEL SET	DT P1800
TIRES	Maxxis Columbiere 700*25C
HANDLEBAR	FSA Gossamer Compact
GRIP/BAR TAPE	Pu Bar Tape
STEM	FSA Gossamer Pro
SEAT POST	FSA Energy SB20, 27.2mm
SADDLE	Selle Italia X1 Flow



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

	A	B	C	D	E	F	G	H	K	L	W
XXS	425	385	502	415	115	70	73.5	68	349.1	514.6	
XS	450	410	513	415	125	71	73.5	68	356.7	527.6	
S	490	450	526	415	135	71.5	73.5	68	365.9	538.8	
M	520	480	544	415	150	72	73	68	373.9	554.8	
L	550	510	558	420	165	72	73	68	384	569.1	
XL	570	530	572	425	180	72	73	68	393.2	583.4	
XXL	590	550	586	425	200	72	73	68	402	602.4	

	A	B	C	D	E	F	G	H	K	L	W
XXS	425	385	502	408	115	70	73.5	68	349.1	514.6	1.35
XS	450	410	513	408	125	71	73.5	68	356.7	527.6	1.38
S	490	450	526	408	135	71.5	73.5	68	366	538.8	1.42
M	520	480	544	410	150	72	73	68	373.9	554.8	1.44
L	550	510	558	410	165	72	73	68	384	570.9	1.46
XL	570	530	572	415	180	72	73	68	393.2	583.4	1.55
XXL	590	550	586	415	200	72	73	68	401.8	602.4	1.6

- 1.The frame is designed for Flat Mount brake system. Converting to PM may result in interference of brake caliper with seat stay.
- 2.All measurements in millimeter (mm) except angle (degrees) and weight (grams)
- 3.44 mm ID head tube for 1 1/4 、 1 1/2” fork
- 4.Standard BSA threaded BB shell
- 5.12 mm through axel dropout
- 6.Tubing : Rikulau 3Al-2.5V titanium tube , butted
- 7.365 mm fork length ; Rake = 43 mm
- 8.Rack mount available
- 9.Tires: 700 x 28C
- 10.27.2 mm Seat post

AUDAX M3

SAMPLE GRAPHIC-REISE



Audax M3 stainless steel road frame and fork are built with Rikula Mars (M3) stainless steel tubes. The tensile strength of M3 reaches 1100 MPa, therefore, the frame can be of good stiffness while still resilient enough. There are two versions of frame design. C-brake and Disc-brake versions. Rack mount on seat stays make the frame eligible for light road touring. The ride quality of Audax M3 is solid. However, it won't be a racing machine. Instead, it is a perfect candidate for endurance riding.

Audax M3 不鏽鋼公路車架以及前叉是以雲豹 Mars (M3) 戰神不鏽鋼管材打造而成。M3 管材的張力強度可達 1100 MPa，因此可製成剛性非常好的車架，卻也不失鋼管的彈性。車架設計有 C 夾及機械碟剎兩個版本。此外，Audax M3 也預留了貨架座，可做為輕度公路旅行使用。

Audax M3 車架有扎實的路感，它不會是一款比賽的利器，卻絕對是一台適合勇腳們長途騎乘的好夥伴。

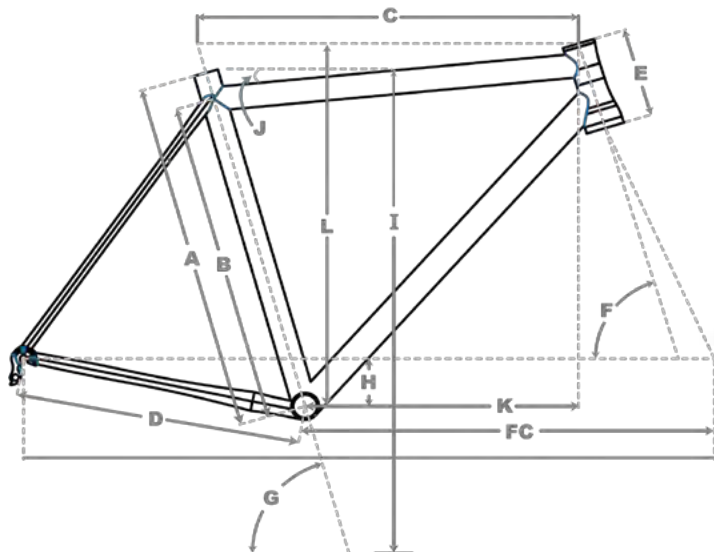


SAMPLE GRAPHIC-REISE

F E A T U R E S

- Rack mount available
- Disc-brake version has adjustable dropout distance for both standard road wheelset and road disc wheelset
- 後上叉貨架孔
- 碟煞版本可調整後叉寬度，適合標準公路車輪組或是碟剎輪

DISC - BRAKE		
	Shimano 105 SRAM Rival	Shimano Tiagra
FRAME	Rikulau Mars M3 Stainless steel	Rikulau Mars M3 Stainless steel
FORK	Rikulau Mars M3 Stainless steel	Rikulau Mars M3 Stainless steel
SEATPOST CLAMP	Alloy CNC	Alloy CNC
HEADSET	FSA Orbit X	FSA Orbit X
GROUPSET	105 (50x34T, 11-34T) Rival (50x34T, 11-32T)	Tiagra (50x34T, 11-34T)
BRAKE	Juin-tech R1	Juin-tech R1
CHAIN	KMC X11-1	KMC X10-1
WHEEL SET	DT Swiss CR1600 Disc	DT Swiss E1800 Disc
TIRES	Duro 700*25C	Duro 700*25C
HANDLEBAR	FSA Gossamer Compact	FSA Omega Compact
GRIP/BAR TAPE	Pu Bar Tape	Pu Bar Tape
STEM	FSA Afterburner	FSA Omega
SEAT POST	FSA Energy, SB20, 27.2mm	FSA Gossamer, SB20,27.2mm
SADDLE	Selle Italia X1 Flow	Selle Italia X-Base



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

C - BRAKE		
	Shimano 105 SRAM Rival	Shimano Tiagra
FRAME	Rikulau Mars M3 Stainless steel	Rikulau Mars M3 Stainless steel
FORK	Rikulau Mars M3 Stainless steel	Rikulau Mars M3 Stainless steel
SEATPOST CLAMP	Alloy CNC	Alloy CNC
HEADSET	FSA Orbit X	FSA Orbit X
GROUPSET	105 (50x34T, 11-34T) Rival (50x34T, 11-32T)	Tiagra (50x34T, 11-34T)
CHAIN	KMC X11-1	KMC X10-1
WHEEL SET	Mavic KSYRIUM ELITE 25	Mavic AKSIUM ELITE
TIRES	Mavic Yksion Pro UST 25	Mavic Yksion EliteGuard
HANDLEBAR	FSA Gossamer Compact	FSA Omega Compact
GRIP/BAR TAPE	Pu Bar Tape	Pu Bar Tape
STEM	FSA Afterburner	FSA Omega
SEAT POST	FSA Energy SB20, 27.2mm	FSA Gossamer SB20,27.2mm
SADDLE	Selle Italia X1 Flow	Selle Italia X-Base

	A	B	C	D	E	F	G	H	K	L	W
XXS	430	390	500	420	120	71	75	70	358.5	528.3	
XS	460	420	510	420	125	71.5	74.5	68	362.3	532.8	1.62
S	490	450	525	420	135	72	74	68	369	544	1.65
M	510	470	540	420	150	73	73.5	68	373.6	561.8	1.69
L	540	500	555	420	170	73	73	68	377.4	580.9	1.7
XL	570	530	570	420	185	73	73	68	388	595.3	1.8
XXL	590	550	585	420	200	73	73	68	398.6	609.6	

	A	B	C	D	E	F	G	H	K	L	W
XXS	430	390	500	408	120	71	75	70	358.5	528.3	
XS	460	420	510	408	125	71.5	74.5	68	362.3	532.8	1.62
S	490	450	525	408	135	72	74	68	369	544	1.65
M	510	470	540	408	150	73	73.5	68	373.6	561.8	1.69
L	540	500	555	410	170	73	73	68	377.4	580	1.7
XL	570	530	570	410	185	73	73	68	388	595.3	1.8
XXL	590	550	585	415	200	73	73	68	398.6	609.6	

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (kg)
- 2.Traditional head tube for 1 1/8" fork steerer
- 3.Tubing: Rikulau Mars M3 Stainless steel

AUDAX 520

SAMPLE GRAPHIC-ELEMENT



Rikulaud Audax 520 road bike is an entry level road bike that also serves the purpose of a light touring bike. The frame is built with Reynolds 520 tube set. Therefore, it possesses the traditional comfort and stability ride quality of a chromoly frame. Features such as front/rear rack mounts, longer rear stays, and a longer fork leg for up to 700 x 28C tire provide the bike with more practical uses. Audax 520 is a model of high performance/cost ratio.

雲豹 Audax 520 公路車是一款入門兼具輕度旅行的公路車，採用雷諾 520 鉻鉬鋼管材。Audax 520 除了提供鉻鉬鋼車傳統的「舒適」、「穩定」特性之外，車架為旅行做了相關設計，例如前後貨架的安裝孔，後叉長度較一般公路車稍長，另外，前叉長度也容許 700 x 28C 的外胎，也讓這款車多了更多的實用性。Audax 520 是一款性價比非常高的車款。



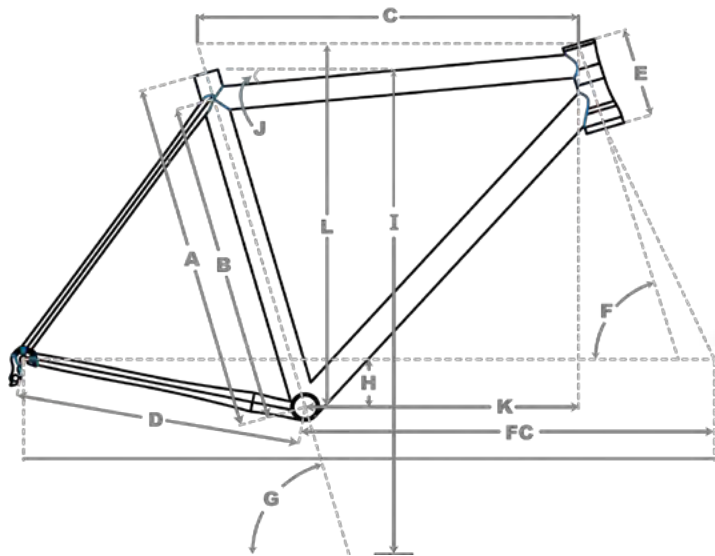
SAMPLE GRAPHIC-ELEMENT

- CrMo welding rod
- Electrodeposition anti-rust treatment
- Features road and light touring functions
- 鉻鉬鋼焊條焊接
- 電著 (ED - electrodeposition) 防鏽處理兼具公路與旅行車功能

F E A T U R E S

SPECS

	Shimano Tiagra	Shimano Sora	Shimano Claris
FRAME	Reynolds 520 tubeset, painted	Reynolds 520 tubeset, painted	Reynolds 520 tubeset, painted
FORK	Chromoly fork, painted	Chromoly fork, painted	Chromoly fork, painted
SEATPOST CLAMP	Alloy QR	Alloy QR	Alloy QR
HEADSET	FSA TH-848	FSA TH-848	FSA TH-848
GROUPSET	Shimano Tiagra (50 x 34 T,11-34T)	Shimano Sora (50 x 39 x 30 T,11-32T)	Shimano Claris (50 x 39 x 30T,11-32T)
CHAIN	KMC X10-1	KMC X9	KMC X8
WHEEL SET	Rikulau Wheelset F 20H, R 24H	Rikulau Wheelset F 20H, R 24H	Rikulau Wheelset F 20H, R 24H
TIRES	Duro 700 x 25C	Duro 700 x 25C	Duro 700 x 25C
HANDLEBAR	Rikulau 6061 Alloy	Rikulau 6061 Alloy	Rikulau 6061 Alloy
GRIP/BAR TAPE	Rikulau, EVA	Rikulau, EVA	Rikulau, EVA
STEM	Rikulau 6061 Alloy	Rikulau 6061 Alloy	Rikulau 6061 Alloy
SEAT POST	Rikulau 6061 Alloy SB20, 27.2 mm	Rikulau 6061 Alloy SB20, 27.2 mm	Rikulau 6061 Alloy SB20, 27.2 mm
SADDLE	Selle Italia X-base	Selle Italia X-base	Selle Italia X-base



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	K	L	W
XXS lowTT	420	280	495	415	100	70	74.5	70	355	505	1.78
XXS	405	360	495	415	100	70	74.5	70	355	505	1.71
XS	455	410	510	415	110	71	74	70	361.6	517.5	1.76
S	480	435	525	415	120	72	73.5	68	368.3	528.9	1.82
M	505	460	540	420	135	72.5	73.5	68	378.6	544.9	1.89
L	530	485	555	420	150	73	73	68	383.5	561	1.94
XL	550	505	570	420	160	73	72.5	68	390.1	570	1.98

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (kg)
- 2.Traditional head tube for 1 1/8" fork steerer
- 3.Standard BSA threaded BB shell
- 4.Tubing: Reynolds 520
- 5.370 mm fork length; Rake = 45 mm
- 6.27.2 mm Seat post
- 7.Rack mount available
- 8.Tires : 700 x 28C
- 9.The XXS size has two kinds of top tube height

LUG 931

SAMPLE GRAPHIC-BUTTERFLY



“LUG” frame was created under inevitability hundreds of years ago; practicality yes, romance no!Time gave “LUG” frame the image of elegance and sensibility; romance remained, practicality vanished!Rikulau has induced modern ingredients into classical, integrated rationality with sensibility.

百年前的不得不然，創造了 Lug 車；只有務實，沒有一絲浪漫！百年的發展使然，賦予了 lug 車典雅、感性的形象；然而，只剩浪漫，不再務實！



SAMPLE GRAPHIC-BUTTERFLY

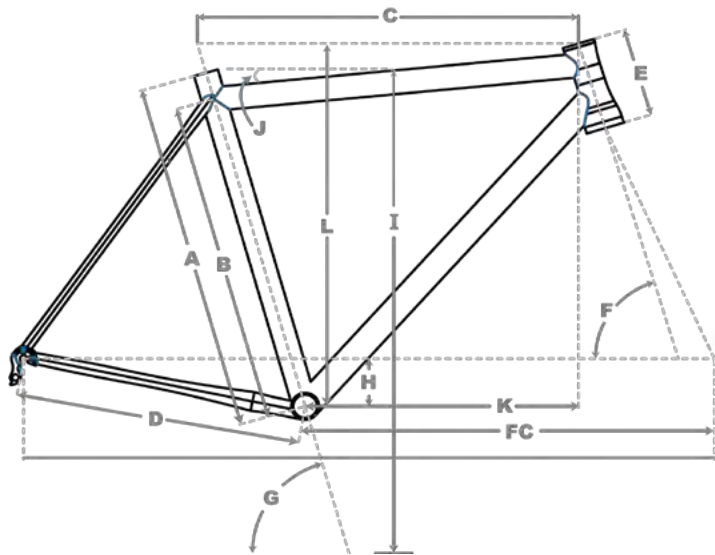
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The world’s first “lugged” stainless steel frame is, thus, brought to life in Taiwan!Aerospace standard 931 stainless steel combined with 17-4PH stainless steel endowed steel lug frame elegance and efficiency!Rikulau 931 lug bike, your romantic steed on the road!

雲豹把現代注入古典，把理性融入感性。自行車史上第一台無縫不鏽鋼 lug 車誕生在台灣！航太科技的雷諾 931 無縫不鏽鋼管搭配高強度的 17-4PH 不鏽鋼接頭讓 Lug 鋼管車除了優雅還有戰鬥力！雲豹 931 Lug 車，您在公路上的浪漫戰駒！

SPECS

	Shimano 105
FRAME	Reynolds 931 Stainless steel tubeset, 17-4PH stainless steel LUG
FORK	17-4PH stainless steel
SEATPOST CLAMP	Stainless Steel
HEADSET	Rikulau, polish silver
GROUPSET	Shimano 105 (50 x 34 T, 11-34T)
CHAIN	KMC X11-1
WHEEL SET	Mavic KSYRIUM ELITE 25
TIRES	Mavic Yksion Pro UST 25
HANDLEBAR	FSA Wing Pro
GRIP/BAR TAPE	XTRM Pu Bar Tape
STEM	FSA OS-150
SEAT POST	FSA SB25, 27.2 mm
SADDLE	Selle Italia X1 Flow



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	I	J	W
S	520		515	405	110	71.5	74	68	740	2.5	1.81
M	520		530	405	115	73	73.5	68	752	1	1.86
L	540		550	405	135	73	73.5	68	772	1	1.91
XL	560		570	405	155	73	73.5	68	792	1	2

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (kg)
- 2.Traditional head tube for 1 1/8" fork steerer
- 3.Tubing: Reynolds 931 for seven tubes
- 4.365 mm fork length; 43 mm rake
- 5.27.2 mm seat post
- 6.Fork uses Rikulau K-6 tubing; weight 774 g

LUG HERCULES

SAMPLE GRAPHIC-RETRO



Lug frame, with the beauty of elegance and sensibility, is the best representation of the bike-building craftsmanship. In terms of weight and ride efficiency, Lug frame has no advantage over other frames at all. But, it is always the appreciated collectable for bike enthusiasts. After Rikulau 931 stainless steel LUG and high end Columbus Spirit LUG, Rikulau introduced Hercules LUG as our entry level model LUG road frame. LUG design is simple, but, inner routing for rear brake and the brazed-on front derailleur hanger together with a simple graphics design give the frame a classical and stylish look.

Lug 車架，充滿典雅、感性之美，是自行車工藝的最佳代言。論重量、論踩踏效率 Lug 車絕對不具優勢，但是，卻永遠是車迷的最佳收藏品。

雲豹繼 931 不鏽鋼以及 Columbus Spirit Lug 公路車之後，推出以 Hercules(日本新日鐵母材)鋼管打造的入門款 LUG 公路車。雖然沒有採用華麗的 lug 接頭，但是，上管的內走線以及中管的焊接變速座設計搭配細緻的銅焊以及烤漆工藝，把這台 lug 車的精緻質感淋漓呈現。



F E A T U R E S

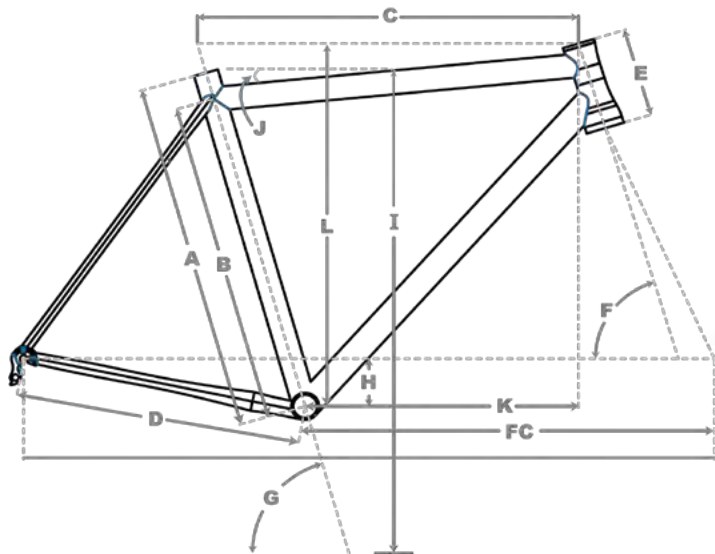
SAMPLE GRAPHIC-RETRO



- Tubing: Raw tube from quality-oriented Nippon Steel (Japan). Precision extrusion processes done in Taiwan
- Inner routing on top tube and braze-on front derailleur hanger give a classical look
- 管材：雲豹特選日本新日鐵 (Nippon Steel) 鉻鉬鋼管，品質特優；抽管及後續加工於台灣完成
- 上管的內走線以及中管的焊接變速座設計讓車身走線簡潔

SPECS

	Shimano 105
FRAME	Rikulau Hercules Premium Chromoly Tubing, Electro-Plated surface
FORK	Chromoly steel, electro-plated surface
SEATPOST CLAMP	Stainless Steel
HEADSET	FSA Orbit X
GROUPSET	Shimano 105 (50 x 34 T, 11-34T)
CHAIN	KMC X11-1
WHEEL SET	Mavic KSYRIUM ELITE 25
TIRES	Mavic Yksion Pro UST 25
HANDLEBAR	Rikulau 6061 Alloy, polish silver
GRIP/BAR TAPE	XTRM Pu Bar Tape
STEM	Rikulau chromoly, electro-plated surface
SEAT POST	Rikulau 6061 Alloy, polish silver SB20, 27.2 mm
SADDLE	Selle Italia X1 Flow



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	I	J	W
S	510	490.5	520	405	105	72	74.5	68	761	1.8	1.914
M	530	510.5	535	405	113	72	73.5	68	774	0.5	1.926
L	550	530.5	550	405	131	72.5	73.5	68	794	0.5	1.986
XL	570	550.5	565	410	150	73	73	68	811	0	2.04

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (kg)
- 2.Traditional head tube for 1 1/8" fork steerer
- 3.Tubing: Rikulau Hercules Steel
- 4.Fork: 370 mm fork length; 43 mm rake; weight: 924g
- 5.27.2 mm seat post

ILI ILI M3 GRAVEL BIKE

SAMPLE GRAPHIC



Gravel bike is not framed by the boundaries between paved and dirt surfaces. It crisscrosses the terrain without limits, and, brings fun of riding to a different horizon.

Gravel bike is neither a road bike nor an MTB. As the word “gravel” implies, this bike is designed to have a comfortable and controlled ride on an unpaved or even a pothole filled city road. It is fancy, it is charming, and it is the bike for you and me.

M3 stainless steel has a tensile strength up to 1100 MPa. Built with this high strength material, the ride is solid and stable. The artistic calligraphy brings up the feeling of wilderness, and also highlighted the simplicity of a metallic frame.

《縱橫阡陌 遨遊在我》縱橫車的出現，跨越了柏油公路與曠野山林的框架，化更多不可能為可能。非公路車、也非登山車，如同 Gravel 字面上所示，他擅長的是在碎石路段上的穩定操控性、減緩行駛於碎石路面傳來的震動，同時又能保有公路車的速度感。這是一台令人著迷的全新概念車款，適合你我的全功能車。

Mars M3 不鏽鋼的優異剛性可達 1100MPa，加強操控穩定性，使得路感平穩且扎實。書法的瀟灑，則讓塗裝在簡約中揮灑出山林曠野的氣勢，也襯托了不鏽鋼的金屬美感。

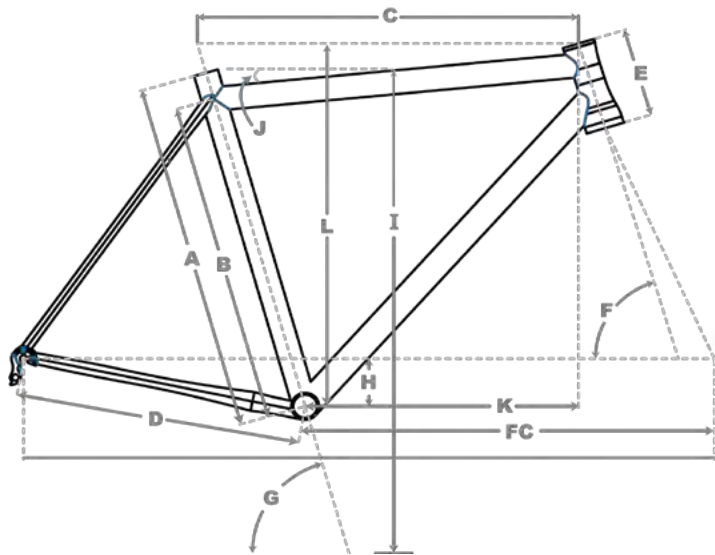


F E A T U R E S

- Tubing: M3 (2205) high strength seamless stainless steel. Precision extrusion processes done in Taiwan.
- Rack and fender bosses: on the frame and fork. M3 Ili ili can be used as a touring bike.
- 3.Bottom bracket: traditional BSA type.
- 管材：雲豹 M3(2205) 不鏽鋼
- 貨架孔：後上叉及前叉皆預留貨架孔，使用上更具彈性
- 標準鎖牙式 (BSA) 五通

SPECS

	Shimano 105	Shimano Tiagra
FRAME	Rikulau Mars M3 Stainless steel	Rikulau Mars M3 Stainless steel
FORK	Rikulau carbon fork	Rikulau carbon fork
SEATPOST CLAMP	Alloy CNC	Alloy CNC
HEADSET	FSA Orbit X	FSA Orbit X
GROUPSET	Shimano 105 (50 x 34 T, 11-34T)	Shimano Tiagra (50x34T,11-34T)
BRAKE	Juin-tech F1	Juin-tech F1
CHAIN	KMC X11-1	KMC X10-1
WHEEL SET	DT C1800 Disc	DT C1800 Disc
TIRES	Vittoria Terreno Dry 700*33C	Vittoria Terreno Dry 700*33C
HANDLEBAR	FSA Gossamer	FSA Omega compact
GRIP/BAR TAPE	Pu Bar Tape	Pu Bar Tape
STEM	FSA Afterburner	FSA Omega
SEAT POST	FSA Energy, SB20,27.2mm	FSA Gossamer, SB20,27.2mm
SADDLE	Selle Italia X1 Flow	Selle Italia X-Base



A/Seat tube C-T
B/Seat tube C-C
C/Effective top tube
D/Chain stay
E/Head tube
F/Head tube angle
G/Seat tube angle
H/BB drop
I/stand over height
J/Top tube angle
K/Reach
L/Stack
W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	K	L	W
XXS	420	300	516	425	100	71	74	73	360.4	543.8	1.78
XS	460	418	516	425	100	71	74	73	360.4	543.8	1.82
S	500	458	530	425	115	71	74	73	370	558	1.86
M	530	488	552	425	135	71.5	73.5	73	380.1	578.8	1.9
L	560	518	572	425	150	72	73	73	389.8	594.9	1.94
XL	590	548	587	425	170	72	73	73	399.3	614	1.98

- 1.Tubing: 2205 stainless steel / 630 stainless steel (seat stay /chain stay)
- 2.Tube diameter: DT: 38.1 mm, ST: 31.8 mm, TT: 30 mm, CS: 22.2 mm, SS: 16 mm
- 3.Brake system: disc brake
- 4.Brake mount: left chainstay; flat mount
- 5.BB: BSA
- 6.Headset: traditional press in
- 7.Seat post: 27.2 mm OD
- 8.Rack mount: seat stays and dropouts
- 9.Mud guard mount: seat stay bridge and chain stay bridge
- 10.Wheel locking: through axel 12 mm
- 11.Scotch brite surface

- Fork
- 1.Carbon fiber
 - 2.Length: 400 mm; rake = 45 mm
 - 3.Wheel locking: through axel 12 mm
 - 4.Flat mount system
 - 5.Mud guard mount and rack mount available

ILI ILI HERCULES GRAVEL BIKE

SAMPLE GRAPHIC



Gravel bike is neither a road bike nor an MTB. As the word “gravel” implies, this bike is designed to have a comfortable and controlled ride on an unpaved or even a pothole filled city road. It is fancy, it is charming, and it is the bike for you and me. Instead of using traditional painting or plating, a phosphite coating is applied to form a protection layer with veins unique to each frame developed on top of the coating. Then, a transparent black top layer is painted on. Rust will develop gradually underneath lively and artistically.

國外流行趨勢 Gravel bike，既非公路車，也非登山車，如同 Gravel 字面上所示，他擅長的是在碎石路段上的穩定操控性，及減緩行駛於碎石路面傳來的震動，同時又能保有公路車的速度感，全新概念車款，令人著迷。這是一台適合你我的全功能車。

首次採用特殊皮膜製程，利用化學反應讓表層形成磷酸鹽保護層，並讓底層形成自然的紋路後，再烤上透明黑色面漆，近看車架你會發現其內部有著大自然的工藝：鏽紋，任其以優美的姿態漫舞。

F E A T U R E S

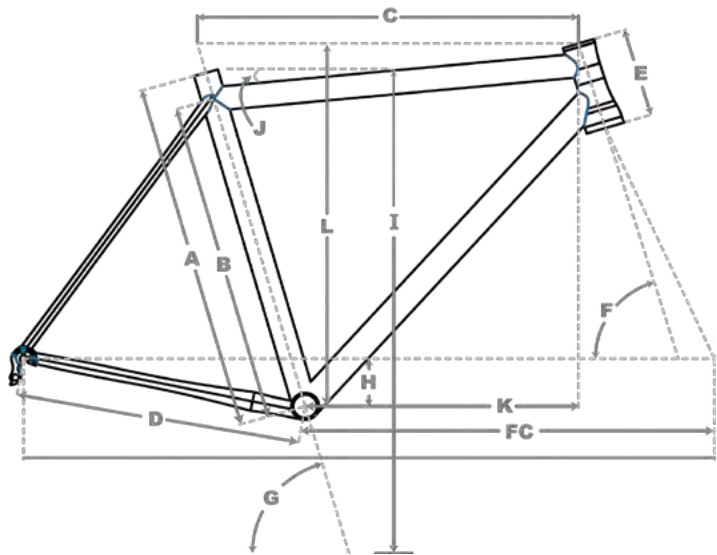
- Tubing: seamless raw tube from quality-oriented Nippon Steel (Japan). Precision extrusion processes done in Taiwan
- Heat treatment: down tube and chainstays heat treated to increase the material strength, and thus, pedaling efficiency
- Rack and fender bosses: on the frame and fork. Ili ili can be used as a touring bike
- Transparent black painting

- 管材：雲豹特選日本新日鐵無縫鉚鋼管，抽管與後續加工於台灣完成
- 熱處理：下管與後下叉熱處理，提升底盤穩定性，放大踩踏效率
- 貨架孔：後上叉及前叉皆預留貨架孔，即使長途旅行也能輕鬆應付
- 標準鎖牙式 (BSA) 五通



SPECS

	Shimano Tiagra	Sram Apex
FRAME	Rikulau Premium Chromoly Tubing, phosphate membrane treatment	Rikulau Premium Chromoly Tubing, phosphate membrane treatment
FORK	Rikulau Premium Chromoly Tubing, phosphate coating	Rikulau Premium Chromoly Tubing, phosphate coating
SEATPOST CLAMP	Alloy CNC	Alloy CNC
HEADSET	FSA Orbit X	FSA Orbit X
GROUPSET	Shimano Tiagra (50 x 34 T, 11-34T)	Sram Apex (50 x 34 T, 11-32T)
BRAKE	Juin-tech F1	Juin-tech F1
CHAIN	KMC X10-1	KMC X10-1
WHEEL SET	DT C1800 Disc	DT C1800 Disc
TIRES	Vittoria Terreno Dry 700*33C	Vittoria Terreno Dry 700*33C
HANDLEBAR	Rikulau 6061 Alloy	Rikulau 6061 Alloy
GRIP/BAR TAPE	Pu Bar Tape	Pu Bar Tape
STEM	Rikulau 6061 Alloy	Rikulau 6061 Alloy
SEAT POST	Rikulau 6061 Alloy , SB20, 27.2 mm	Rikulau 6061 Alloy , SB20, 27.2 mm
SADDLE	Selle Italia X-Base	Selle Italia X-Base



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	K	L	W
XXS	420	300	519	425	100	71	74	73	363.7	542.5	1.76
XS	460	420	519	425	100	71	74	73	363.7	542.5	1.88
S	500	460	533	425	115	71	74	73	373.3	556.6	2
M	530	490	552	425	135	71.5	73.5	73	381.2	577.5	2.12
L	560	520	574	425	150	72	73	73	392.1	593.5	2.24
XL	590	550	589	425	170	72	73	73	401.7	612.6	2.35

- 1.Tubing: Nippon Steel seamless CrMo tubeset; down tube and chainstays heat treated for higher stiffness
- 2.Tube diameter: DT: 34.9 mm, ST: 28.6 mm, TT: 28.6 mm, CS: 16 mm, SS: 22.2 mm
- 3.Brake system: disc brake
- 4.Brake mount: left chainstay; Flat mount
- 5.BB: BSA
- 6.Headset: traditional press in
- 7.Seat post: 27.2 mm OD
- 8.Rack mount: seat stays and dropouts
- 9.Mud guard mount: seat stay bridge and chain stay bridge

- Fork
- 1.Material: CrMo
- 2.Length: 400 mm; rake = 45 mm
- 3.Mud guard mount and rack mount available
- 4.Flat mount disc mount

325TI CYCLOCROSS

SAMPLE GRAPHIC-



Cyclocross frame needs to be stable, comfortable, efficient, easy to maintain, and, bump resistant. Titanium alloy becomes a strong contender for the most suitable material for these purposes. Moreover, monostay, through axel and flat mount brake system design add the icing on the cake. This bike may not put you on a podium, but, it definitely is a fun bike you don't feel like getting off.

Snow-like triangle flakes give a final touch to this function-oriented product. It is a good bike and a charming one.

越野公路車的需求無非穩定、舒適、保養容易以及耐碰撞，要滿足這些要求，非鈦莫屬。Monostay 的後上叉以及直通軸和 Flat mount 碟剎系統則發揮錦上添花的效用。這台車不一定能幫你拿到冠軍，但是，騎上它保證能讓你下馬！雪片般的幾何圖案為這台功能性十足的越野公路車添加了工業風的設計感，發揮點睛的作用。這是台好車也是美車。



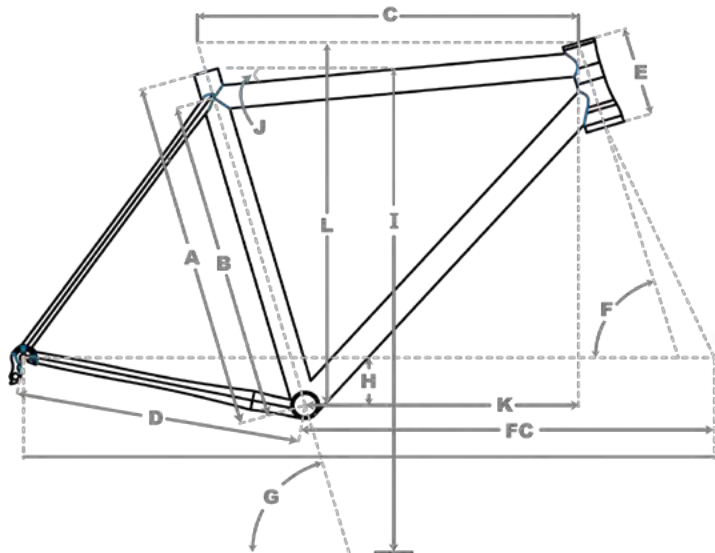
FEATURES

- Tubing: 3Al-2.5V seamless tubing; stress release by heat treatment after shaping
 - Tapered 1 1/2" head tube: provides stiffness and cornering stability
- Electronic/Mechanical dual shifting system: the frame has settings for both.
 - Flat mount disc brake system
 - T47 BB for higher stiffness
 - 12 mm through axel
- Rack mount on monostay and dropout
- 管材：3Al-2.5V 無縫鈦合金成型管；成型後進行熱處理以消除殘餘應力
 - 梭形頭管：使用 1 1/2 吋 taper 前叉，增加剛性以及過彎的穩定性
 - 機械 / 電子變速兩用
 - Flat mount 碟煞系統
 - T47 五通設計：加強騎乘剛性
 - 12 mm 直通軸
- 車架預留後貨架孔位，保留使用上的彈性



SPECS

	Shimano 105
FRAME	Rikulau 3Al-2.5V titanium
FORK	Rikulau carbon fork
SEATPOST CLAMP	Alloy CNC
HEADSET	FSA Orbit X
GROUPSET	Shimano 105 (50 x 34 T, 11-34T)
BRAKE	Juin-tech F1
CHAIN	KMC X11-1
WHEEL SET	DT CR1600 Disc
TIRES	Vittoria Terreno Dry 700*33C
HANDLEBAR	FSA Gossamer
GRIP/BAR TAPE	Pu Bar Tape
STEM	FSA Afterburner
SEAT POST	FSA Energy, SB20,27.2mm
SADDLE	Selle Italia X1 Flow



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	K	L	W
XS	480	440	518	425	110	71	74	65	365.1	533.3	1.66
S	510	470	531	425	120	71	74	65	375.4	542.8	1.68
M	540	500	548	425	135	71.5	73.5	65	382.5	558.8	1.74
L	560	520	568	425	150	72	73	65	392.2	574.9	1.76
XL	590	550	581	425	165	72	73	65	400.9	589.2	1.78

- Frame
- 1.Tubing: Rikulau 3Al-2.5V seamless titanium tubeset; heat treated for stress release
 - 2.Tube diameter: DT: 44 mm (square), ST: 31.8 mm(round), TT: 31.8 mm(oval), CS: 25.4 mm, SS: 16 mm
 - 3.Shifting: electronic/mechanical shifting system
 - 4.Brake system: disc brake
 - 5.Brake mount: left chainstay; flat mount
 - 6.BB: T-47 bottom bracket
 - 7.Headset: integrated
 - 8.Seat post: 27.2 mm OD
 - 9.Wheel locking: through axel 12 mm
 - 10.Scotch brite surface

- Fork:
1. Carbon fiber
 - 2.400 mm length; rake = 45 mm
 - 3.Wheel locking: through axel 12 mm
 - 4.Flat mount system

MUNDO 325TI TOURING BIKE

SAMPLE GRAPHIC-



For a touring bike, frame stability, comfort, load capacity, and easy to maintain are essential. Rikulau’s Mundo Ti 325 was designed based on these requirements.

Larger chain stays and down tube increase frame stiffness and loading capacity. Longer trail enhances stability.

Simple graphics design sand blasted on scotch brite titanium tube keeps maintenance of the frame to the minimum during the journey.

Rikulau’s titanium touring bike has been road-tested in the last few years in several around-the-world bike tour, Trans-Eurasia, and TransAfrica adventure tour.

旅行車的需求重在穩定、舒適、能荷重以及保養容易。雲豹的鈦合金旅行車就是針對這些需求而設計的車款。

加大的後下叉與下管提供載重時的承載力與車架穩定性。加長的 trail 則增加車輛的平衡。

鈦合金原色圖案減少在旅行時維護保養的需要。這款鈦合金旅行車經歷了環遊世界以及歐亞非三洲的壯遊旅程。如果要找一台旅行中值得依靠的夥伴，雲豹 Mundo Ti325 旅行車一定是首選！



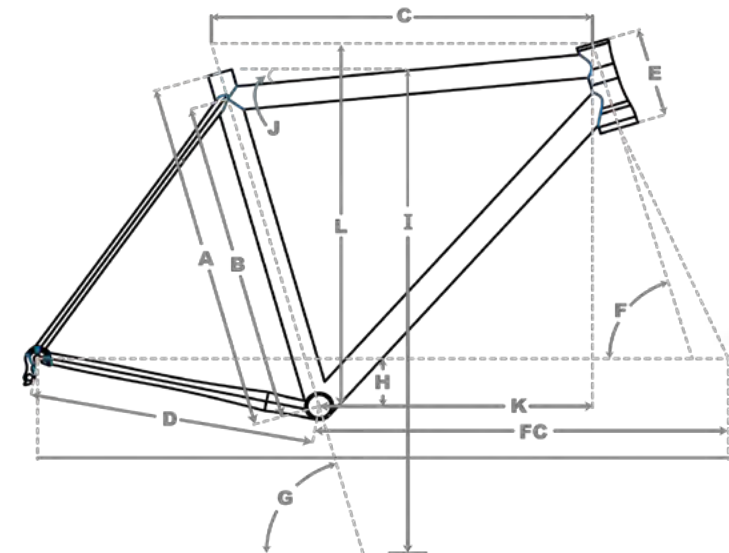
F E A T U R E S



- Standard head tube and BSA bottom bracket design for easy maintenance
- Longer chainstay for large size pannier bags
- Rack mount and fender mount on the frame and the fork
- 700 C wheel size only

- 傳統頭管以及 BSA 五通方便旅途中維修
- 拉長的後下叉方便安裝大型馬鞍袋
- 車架與前叉均可安裝貨架與擋泥板
- 搭配 700C 輪組

S P E C S	
	Shimano 105
FRAME	Rikulau 3Al-2.5V titanium
FORK	Rikulau Titanium fork
SEATPOST CLAMP	Alloy CNC
HEADSET	FSA Orbit X
GROUPSET	Shimano 105 (50 x 34 T, 11-34T)
BRAKE	Juin-tech M1
CHAIN	KMC X11-1
WHEEL SET	DT C1800 Disc
TIRES	Maxxis Overdrive Elite 700*35C
HANDLEBAR	FSA Gossamer Compact
GRIP/BAR TAPE	Pu Bar Tape
STEM	FSA Afterburner
SEAT POST	FSA Energy, SB20,27.2mm
SADDLE	Brooks Genuine Leather



A/Seat tube C-T	G/Seat tube angle
B/Seat tube C-C	H/BB drop
C/Effective top tube	I/stand over height
D/Chain stay	J/Top tube angle
E/Head tube	K/Reach
F/Head tube angle	L/Stack
	W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

	A	B	C	D	E	F	G	H	K	L	W
XS	410	360	520	450	110	70.5	74	75	359.7	559.1	
S	455	405	535	450	135	71	73.5	75	361.8	584.7	
M	480	430	550	450	150	72	73.5	75	371.5	602.7	
L	505	455	565	450	165	72	73	75	376.4	617	
XL	530	480	580	450	180	72	73	75	387	631.2	

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (grams)
- 2.Headset: Traditional standard; for 1 1/8" OD steerer
- 3.BB shell: traditional threaded for 24 mm axel BB
- 4.Tubing: Rikulau 3Al-2.5V titanium
- 5.410 mm fork length; 45 mm rake
- 6.27.2 mm seat post
- 7.Brake: Disc + Cantilever brake; rear brake routing from down tube
- 8.Rack mount: on seat stay and dropout
- 9.Fender mount: on dropout, seat stay bridge, chain stay bridge
- 10.Maximum tire size: 700 x 40 C

MUNDO M3 TOURING BIKE

SAMPLE GRAPHIC-



For a touring bike, frame stability, comfort, and easy to maintain are essential. M3 tube set was originally designed for marine environment, therefore, it is basically rust-free and easy to be taken care of. The tensile strength can reach 1100MPa, so, a frame built with M3 is eligible to be a stiff and, yet, comfortable product. For long-distance travel, unstable tail caused by high load and soft rear triangle is the least a rider would like to experience in a high speed descend. Furthermore, increased head tube releases pressure on the rider's back, and longer chainstay makes loading large size pannier bags possible. M3 touring bike has been road tested and highly regarded by cycle touring experts from Taiwan and Malaysia. It is a companion to be seriously considered in your next long distance bike tour.

旅行車的需求首重穩定、舒適以及保養容易。M3 管材原用於海洋工程，保養非常容易。它的張力強度可達 1100 MPa，因此可製成剛性非常好的車架，卻也不失鋼管的彈性。對於長途旅行而言，足夠的車架剛性方能讓高負重的旅行車在下坡時不會有扭曲甩尾的狀況，而產生危險。另外，加長的頭管則減輕長途旅行時的背部壓力，拉長的後下叉則方便安裝大型馬鞍袋。M3 旅行車已經由台灣以及馬來西亞旅遊達人的實際測試而獲得一致的肯定。它會是未來長途旅行非常值得考慮的夥伴！

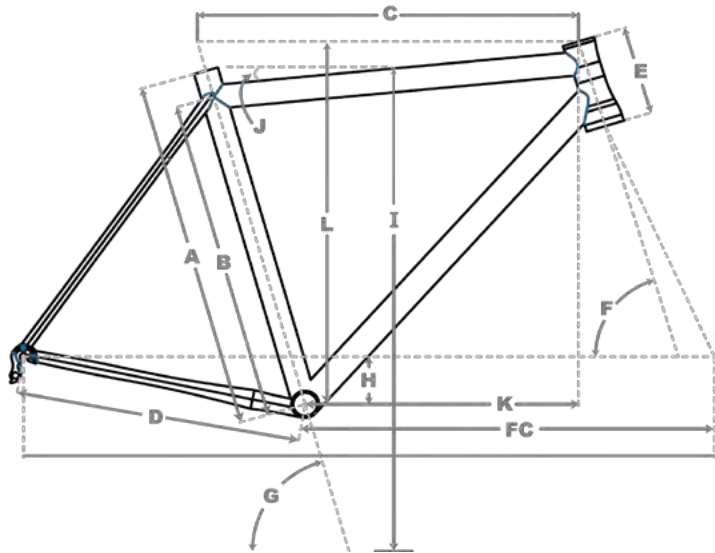


F E A T U R E S

- Standard head tube and BSA bottom bracket design for easy maintenance.
- Heavy duty wheelset built with DT Swiss hub, spoke, and niobium rim.
 - Longer chainstayfor large size pannier bags
- Two frame versions for 700 C or 26 inch wheelset
 - 傳統頭管以及 BSA 五通方便旅途中維修
- 輪組以 DT Swiss 花鼓與鋼絲搭配鈦合金輪圈，承載力十足
 - 拉長的後下叉方便安裝大型馬鞍袋
- 兩種車架規格搭配 700C 或 26 吋輪組

SPECS

	Shimano 105	Shimano Tiagra
FRAME	Rikulau Mars M3 Stainless steel	Rikulau Mars M3 Stainless steel
FORK	Rikulau Mars M3 Stainless steel	Rikulau Mars M3 Stainless steel
SEATPOST CLAMP	Alloy CNC	Alloy CNC
HEADSET	FSA Orbit X	FSA Orbit X
GROUPSET	Shimano 105 (50 x 34 T, 11-34T)	Shimano 105 (50 x 34 T, 11-34T)
BRAKE	Juin-tech M1	Juin-tech M1
CHAIN	KMC X11-1	KMC X10-1
WHEEL SET	DT C1800 Disc	Rikulau wheelset Rim:Kinlin XC-279 Hub:DT SWISS 370Disc Break 28H Spoke: DT SWISS Competition2.0/1.8/2.0
TIRES	Maxxis 700*35C	Maxxis 700*35C
HANDLEBAR	FSA Gossamer Compact	FSA Omega Compact
GRIP/BAR TAPE	Pu Bar Tape	Pu Bar Tape
STEM	FSA Gossamer Pro	FSA Omega
SEAT POST	FSA Energy, SB20,27.2mm	FSA Gossamer, SB20, 27.2mm
SADDLE	Brooks Genuine Leather	Brooks Genuine Leather



- A/Seat tube C-T
- B/Seat tube C-C
- C/Effective top tube
- D/Chain stay
- E/Head tube
- F/Head tube angle
- G/Seat tube angle
- H/BB drop
- I/stand over height
- J/Top tube angle
- K/Reach
- L/Stack
- W/Weight(kg)

Note: all measurements in millimeter ((mm)) except head tube, seat tube, top tube angles in degrees.

GEOMETRY

	A	B	C	D	E	F	G	H	K	L	W
26" XXS	420	380	540	450	100	71	73	44	380.6	521.3	
26" XS	440	400	560	450	120	71	73	44	394.9	540.2	
26" S	460	420	580	450	140	71	73	44	409.1	559.1	
26" M	480	440	600	450	160	71	73	44	423.3	578	
700C S	445	405	540	450	110	71	73	75	368.2	561.8	
700C M	480	440	560	450	130	72	73	75	381.3	564.6	
700C L	520	480	580	450	150	72	73	75	395.5	603.6	
700C XL	560	520	600	450	170	72	73	75	409.6	622.6	

- 1.All measurements in millimeter (mm) except angle (degrees) and weight (grams)
- 2.Headset: Traditional standard; for 1 1/8" OD steerer
- 3.BB shell: traditional threaded for 24 mm axel BB
- 4.Tubing: Rikulau Mars (M3) stainless steel
- 5.410 mm fork length; 45 mm rake
- 6.27.2 mm seat post
- 7.Brake: Disc + Cantilever brake; routing from top tube
- 8.Rack mount: on seat stay and dropout
- 9.Fender mount: on dropout, seat stay bridge, chain stay bridge
- 10.Maximum tire size: 700 x 40 C or 26" x 1.75



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Actual items may vary.

Rikulau reserves the right to adjust the specifications without notification.