

LIMOTEC

DESIGN.
DEVELOP.
PRODUCE.

Company Introduction

LIMOTEC LTD.

Frame/Fork

Jovial Shanghai | Production

Jovial Dongguan | Production

Jovial Wuxi | Painting

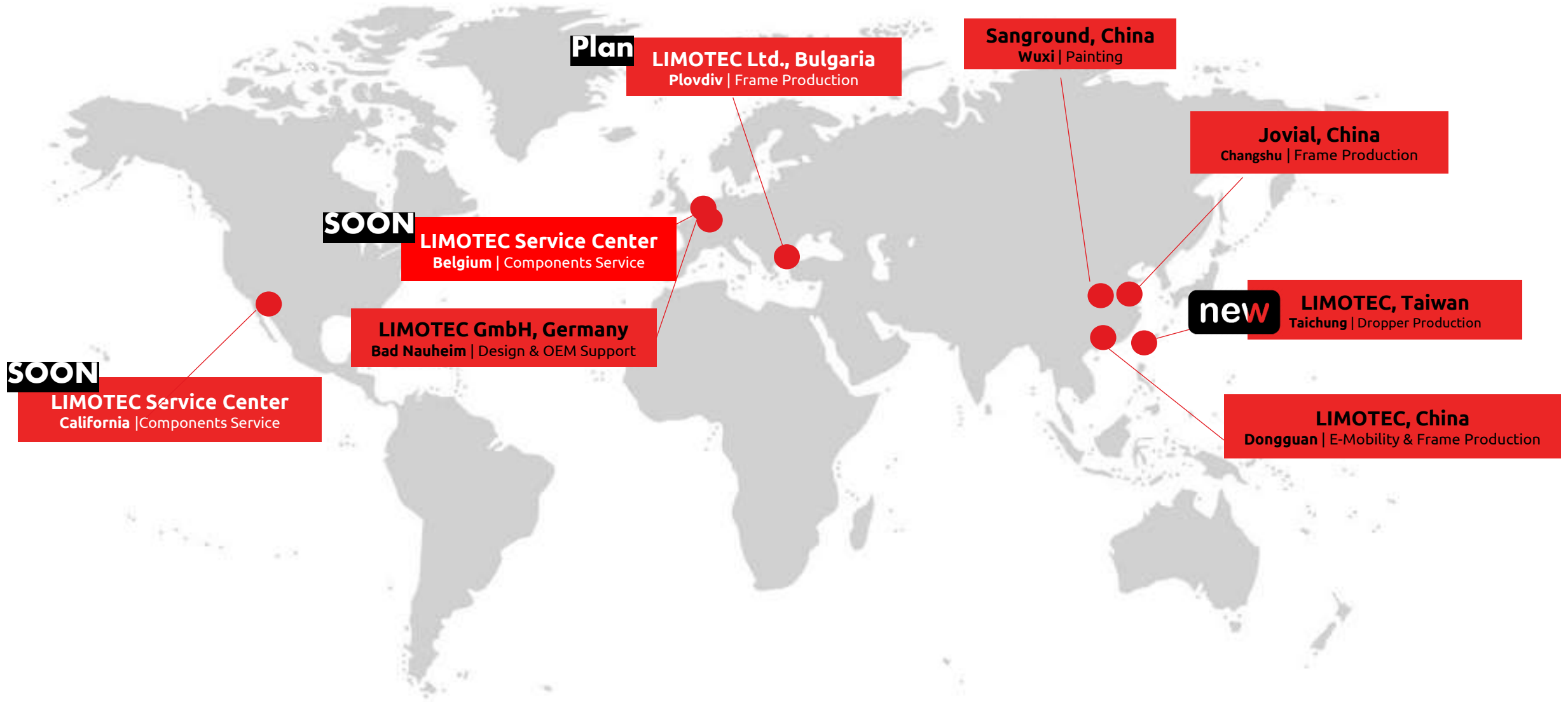
E-mobility/ Bike Components

LIMOTEC HQ | Design, Develop, Production

Office

LIMOTEC Taiwan | OEM Support

LIMOTEC Germany | OEM Support

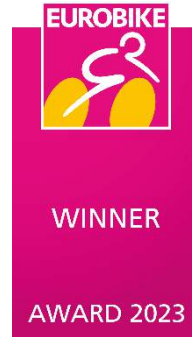


LIMOTEC | **Frames** **Jovial**

- › Previous Jovial Bike Components, now belongs to Limotec group
- › Started May 2012
- › ISO Certification
- › eBike frame and fork production
- › Design and production
- › 2024, 450K frames & 200K forks produce Capacity



LIMOTEC | Frames LIMOTEC Dongguan



- › Started April 2017
- › ISO Certification
- › OEM / distributor partner
- › Concept / design / production
- › E-mobility / Frame
- › Previous Ghost factory
- › 2024 25K produce capacity



LIMOTEC | Frames Sand Ground

- › Started Painting production in 19'
- › Employee: 50
- › Factory space: 29,000m²
- › Painting
- › Location: Shanghai area
- › Capacity 10K/month in 2024
- › Material Preparation from 2025



LIMOTEC | Component LIMOTEC Taiwan



- › OEM / distributor partner
- › ISO Certification
- › Concept / design / production
- › Bike Components
- › New/own factory ready Q4 23'
- › 2024 500K produce capacity
- › 2026 1000K produce capacity



LIMOTEC | OEM Support LIMOTEC GmbH

- › Started March 2018
- › Employee : 5 FTE
- › Direct Customer Contact for Presales and after market
- › Technical Trainings
- › Projects Coordination



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**LIMOTEC OEM Frame product
(show case)**

E-Suspension Frame

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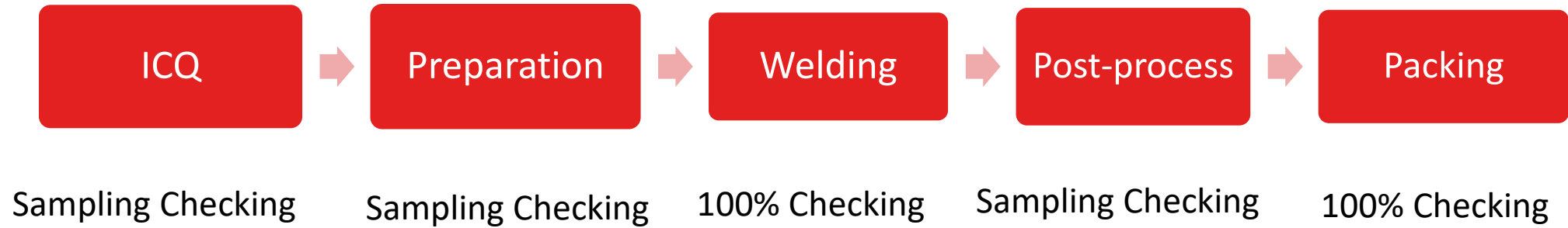


Cargo Frame

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welding efficiency

- Accumulated production progress per unit time

Welding quality inspector in charge

- Responsibility for inspection negligence and improvement is assigned to individuals

Welding personnel tracing

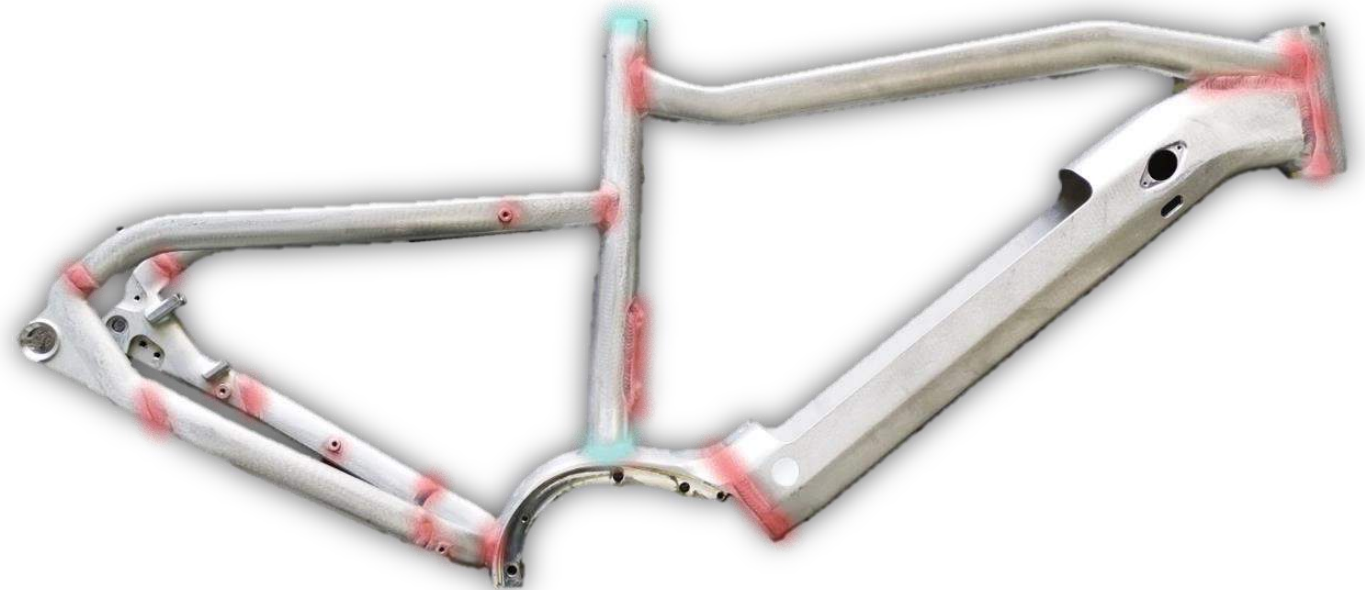
- Permanent tracing records
- Analysis of welding level

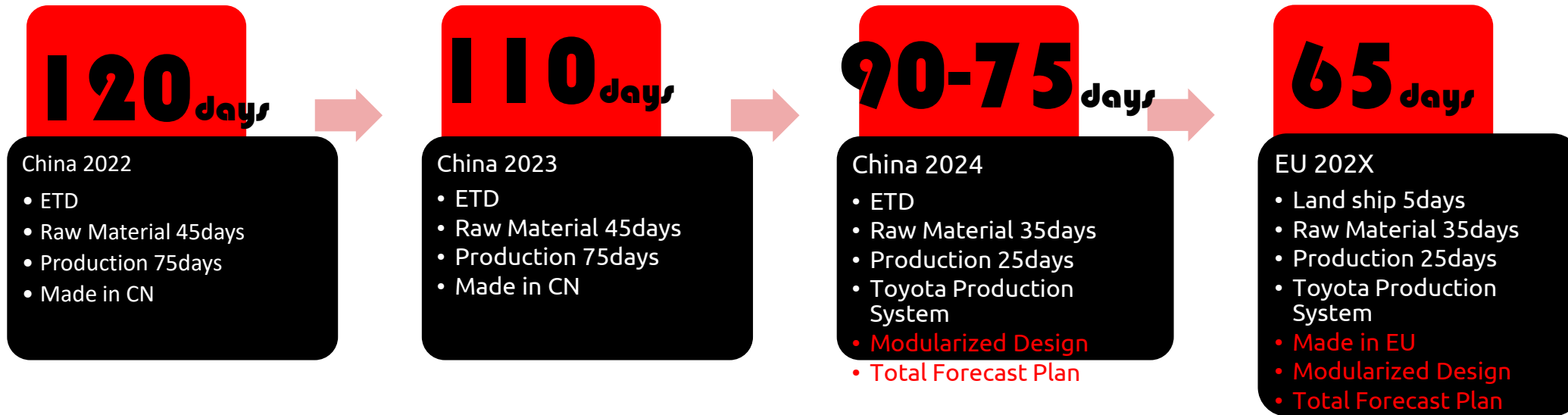
Statistics&analysis of welding defect

- Training and improvement basis for the management team

Defect correction tracking

- Defective products require re inspection and qualified inspection actions





- ① Reduce the forecast error
- ② Reduce the inventory cost
- ③ Increase in season sales

Solve Inventory problem together with customer



◆ One worker to handle multiple machines



◆ Cleaning machine for each tube



◆ Organize laser cutting area



◆ 3 lines of material preparation with 6 laser cutting robots.



• Our company obtained the verification statement from SGS in May 2024.



Fully adopted green electricity in April and plans to start using solar power by the end of June.



This Redemption Statement has been produced for
JOVIAL BIKE COMPONENTS (CHANGSHU) CO.,LTD.

by

TIMING CARBON ASSET MANAGEMENT CO LTD

confirming the Redemption of

1 200.000000

T-REC Certificates, representing 1 200.000000 MWh of
electricity generated from renewable sources

This Statement relates to electricity consumption located at or in
No. 28, Zhujing Road, Changshu City, Jiangsu Province, China
China

in respect of the reporting period

2024-01-01 to 2024-12-31

The stated Redemption Purpose is

used on behalf of Jovial Bike Components (Changshu) Co.,Ltd. for renewable en
consumption

Ev.

First Sample photos

The sample frame is pass the ISO test +30% additional force loading & cycles



Limotec(DongGuan)Limited				
No.13, Heshi road, Shishuikou village, Qiaotou town, Dongguan city, 523528 ; Guangdong Province China				
測試報告 Test Report				
Customer/客戶: LIMOTEC		Model/Type 車款: EB5210-0 50CM(C-T)		Testing date 測試日: 2023/09/23
Article No.: 車架編號: EB521005000-A	Size: 50	Testing sample No.: 樣品編號: LM2309004	LM23TS090001	
Testing Item: 測試項目: Frame Fatigue Test (Horizontal Forces) 水平力疲勞測試	Testing Standard: 測試標準: ISO4210-6-2015(E) CITY/TREKKING		Testing Figure: 測試圖表:	
Setting Request: 測試特殊要求: NIL				
setting parameters: 數據:	Frequency: 頻率: 3Hz	Cycles Load: 次數: 130000		
	Load(N)-Forward 載重力(前推力): 585N (0/+5%)	Load (N)-Reward: 載重力(後拉力): 585N (0/+5%)		
Testing result: 測試結果:	Cycles Load: 次數: 130000	Cracked Cycles: 開始斷裂次數: NIL		
	Testing Result: 測試結果: Pass	Details: 詳細:		
Testing Photo: 測試圖片:	Testing Diagram: 測試圖表:			
Remark 備註: 力量 and 次數加严30%测试				
Approved: Lynn miaolin	Audit: Ye Xiongfeng	審核: 叶雄峰	制表: 王小平	List By: Wang Xiaoping

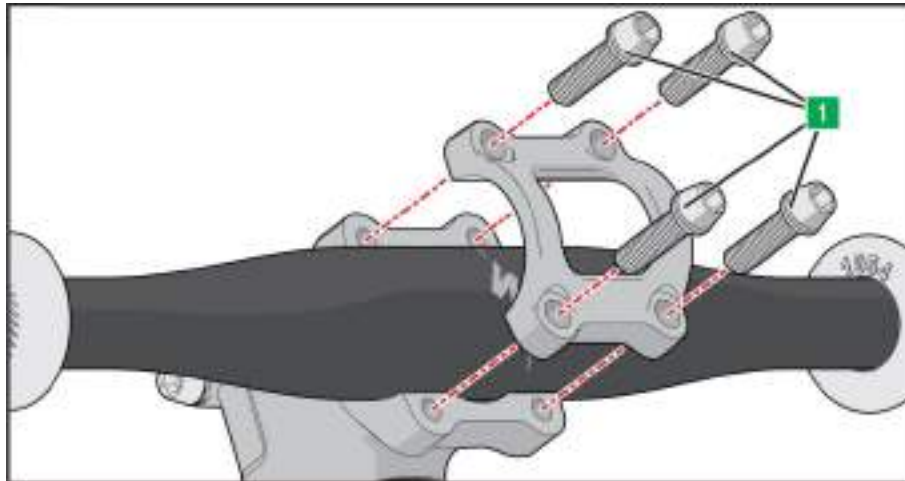
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Testing Item: 測試項目: Frame Fatigue Test (Vertical Forces) 垂直力疲勞測試	Testing Standard: 測試標準: ISO4210-6-2015(E) CITY/TREKKING		Testing Figure: 測試圖表:	
Setting Request: 測試特殊要求: NIL				
setting parameters: 數據:	Frequency: 頻率: 3Hz	Cycles Load: 次數: 65000		
	Load(N)on Seat Stem 載重力(下拉): 1300N (0/+5%)	Load (N)-Reward: 載重力(後):		
Testing result: 測試結果:	Cycles Load: 次數: 65000	Cracked Cycles: 開始斷裂次數: NIL		
	Testing Result: 測試結果: Pass	Details: 詳細:		
Testing Photo: 測試圖片:	Testing Diagram: 測試圖表:			
Remark 備註: 力量 and 次數加严30%测试				
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AlloBAR

- Aluminum Alloy Handlebar
- Aluminum Alloy Stem
- More Assembly process
- Basic Design
- No component integration



Carbon Handlebar + Stem integration

- Light weight(250g 70mm offset)
- High Cost
- Component integration



HB02



HB02 Clamp
design

2023 EUROBIKE AWARD!!



WINNER

AWARD 2023



Transmission Tilt System

22° tilting for good steering performance.

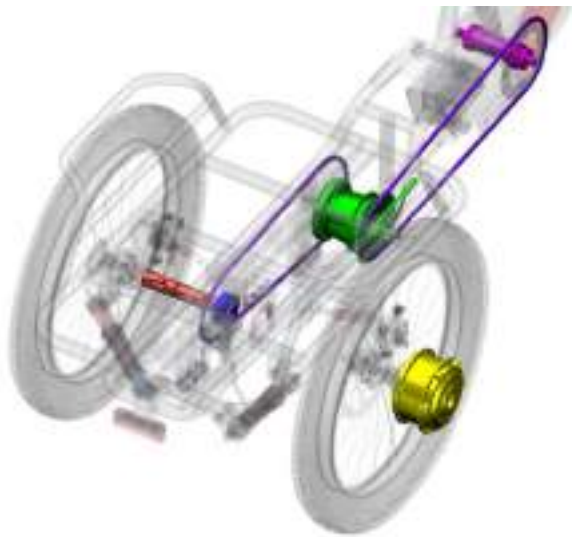
Frame & rear rack are individual tilting system

No steering influences with heavy loading

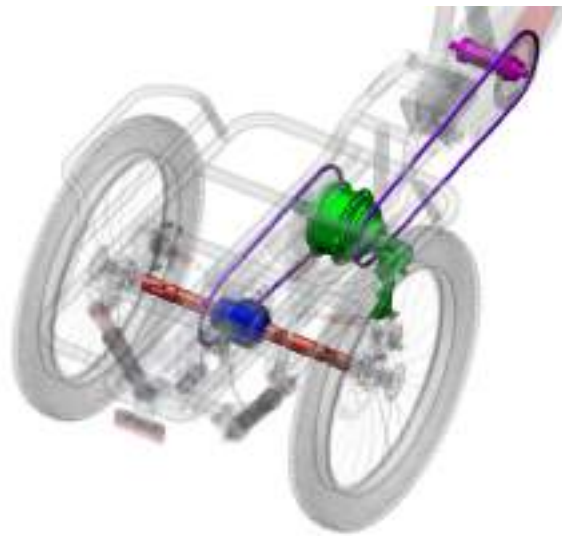
Patent®



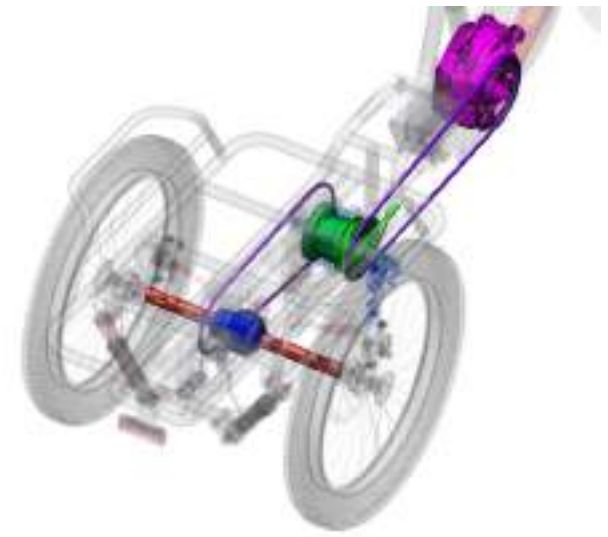
3 type of transmission setup, the driving torque can be delivered through differential & universal joint.



Rear Hub Motor



Central Hub Motor



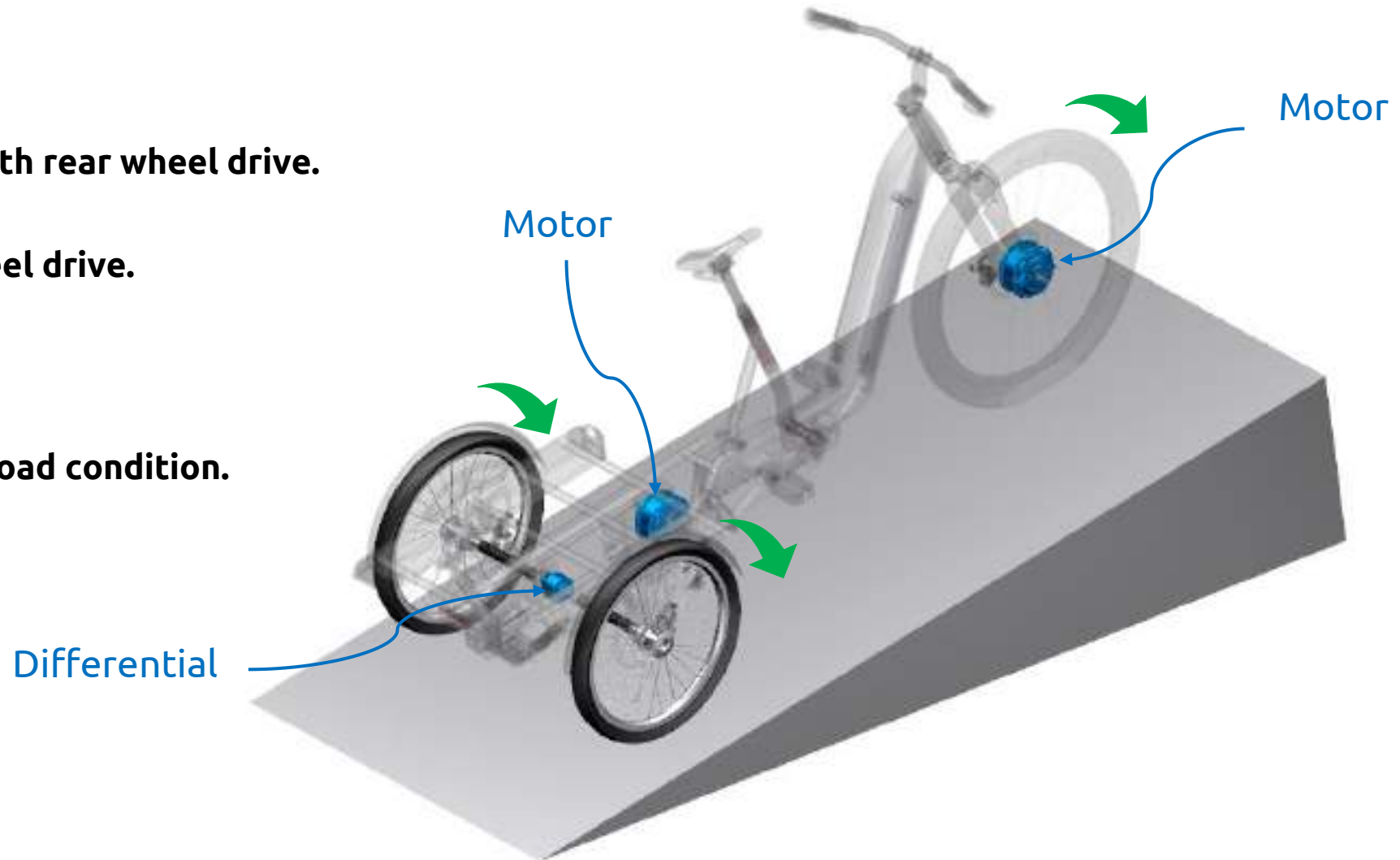
Mid motor

Central (hub) motor realize both rear wheel drive.

Dual hub motor realize all wheel drive.

Heavy load uphill usage.

Best safety during the worst road condition.



Multi Function Platform



1. RD: 產品設計開發工程師
 - SoildWork 3D軟體的操作
 - 越南籍1 員,台2 員(一員台中,一員外埔)
2. RD: CAE有限分析工程師
 - 自行車零件,車架結構分析
 - 台1員(台中)
3. 管理: 生產管理
 - EXCEL/PPT 軟體的操作
 - 國籍不拘,需求1 員(外埔)
4. 品管: 品管工程師
 - 品質七大手法改善技巧
 - 國籍不拘,需求1 員(外埔)
1. 加工: CNC加工技術工程師
 - CNC 車床數值加工程式編輯或培訓幹部
 - 國籍不拘,需求1 員(外埔)

THANK

YOU!

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