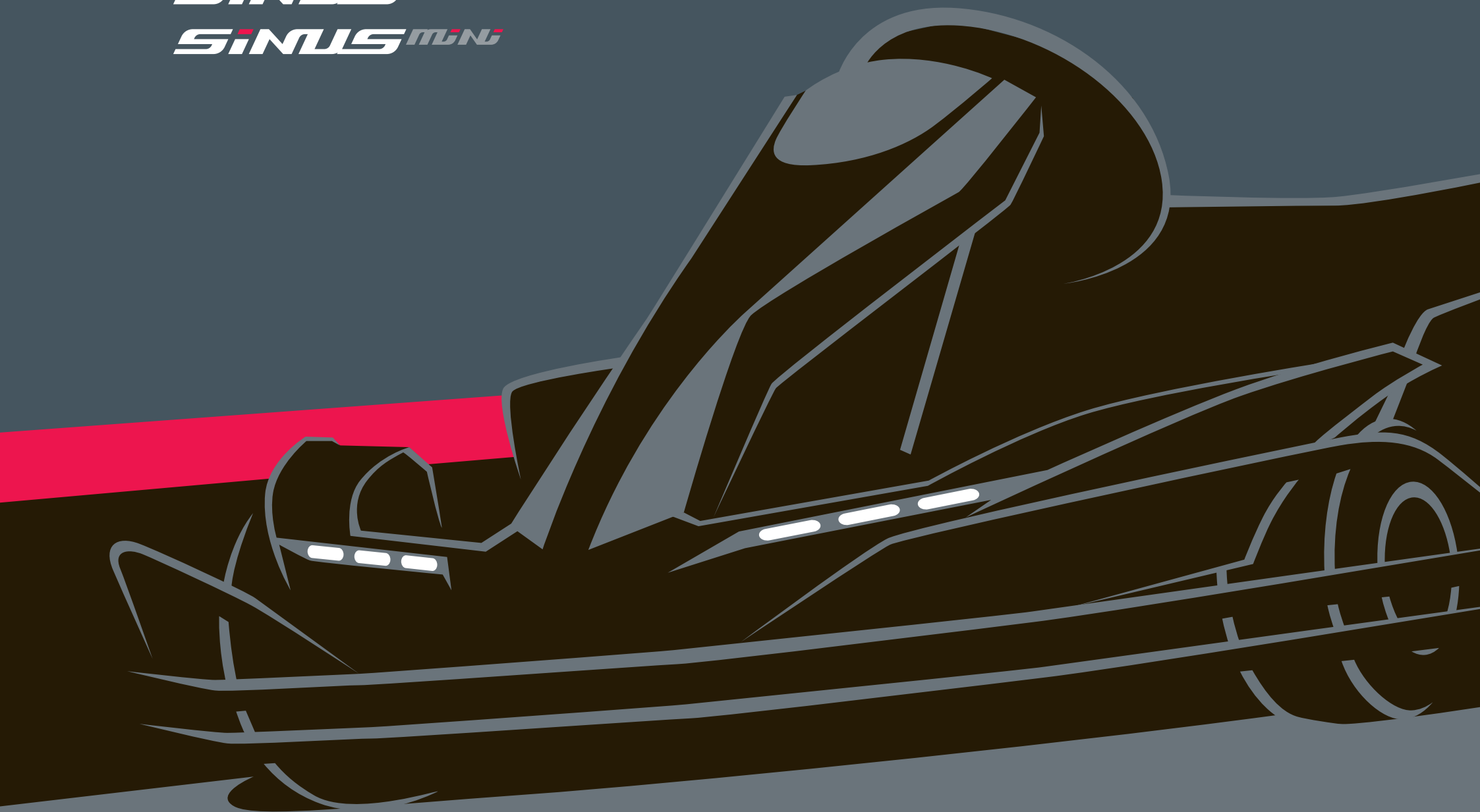


**SINUS**ION

**SINUS**TWIN

**SINUS**MING

**RIMO**  
GERMANY



# 品质

选择RiMO产品，您就是选择了“德国制造”的最高品质以及毫无条件的服务理念。我们对技术的不断追求以及对于产品的质量控制在成就了您对RiMO的信任以及在全球市场上的优势。

# Quality

By deciding for a RiMO product you choose highest quality made in Germany combined with an unconditioned service. Continuous technical and technological advance and checkage of the installed components secures your confidence in us and our advantage in the global market.





# 电池管理

电池电压平衡、充电器交流技术、温度监控与散热控制等在同行业领先的功能都包含在RiMO自行研发和制造的电池管理系统中。

# Battery Management

Balanced cell voltage, communication with the charger, temperature monitoring and fan control are achievements of the Battery Management System (BMS) exclusively designed for RiMO.





# 充电技术

通过在平板电脑上选装一款充电管理软件，您可以直观地了解和监控整个全自动充电过程。人性化的充电技术能够根据您的需求提供不同的充电方案。40、60、100安时的电池组能够让您的卡丁车连续行驶20、35、60分钟。此外，您可以选择230伏或380伏的充电器。

# Charging

The complete automatic charging prices can optional be viewed over our easy-to-use charge controlling software which is pre-installed on a tablet computer. Technical details of the charging process can easily be prepared to fit your business processes. 40/60/100Ah cells gives you the possibility to drive 20/35/60 minutes. You charge with 230 V or with 380 V charger.





# 制动系统

最高的安全保证、最出色的性能以及最精确的设计是RiMO双循环液压制动系统的设计宗旨。我们可以自豪地说，这样一款高效、可靠、轻巧的制动系统能够为您带来一流的品质以及超低的运营、维护成本。

# Brake system

Maximized safety, outstanding performance and precise design have been the development targets for the RiMO dual-circuit brake system. We are proud to state that we produced a reliable and very compact brake system showing unmatched quality and low-key running costs



USE DOT 5  
Silicone only  
RIMS

RIMS  
GERMANY

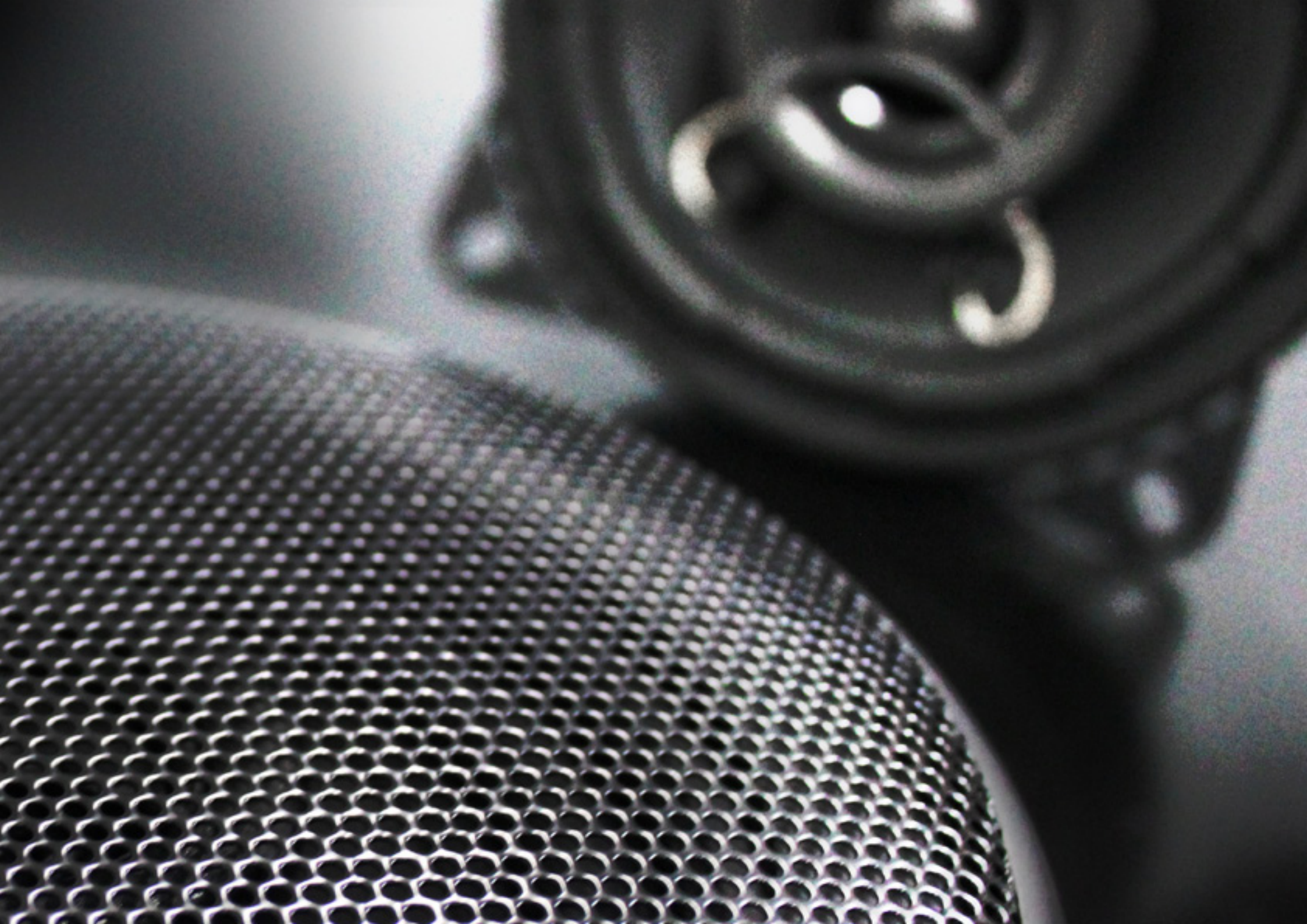
# 模拟音效系统

V6、V8还是静音？您来决定！SiNUS iON电动卡丁车上的自适应模拟音效系统能够给您带来无与伦比的驾驶体验，让您如身临F1赛车现场一般。模拟音效系统通过将实时马达转速以及输出功率结合起来模拟出最真实的引擎音效。

## Onbord-Sound

V6, V8 or whisper quiet: you decide. The unmatched adaptive SiNUS iON sound system impresses with Formula One feeling and takes both rpm and engine charge state in account.





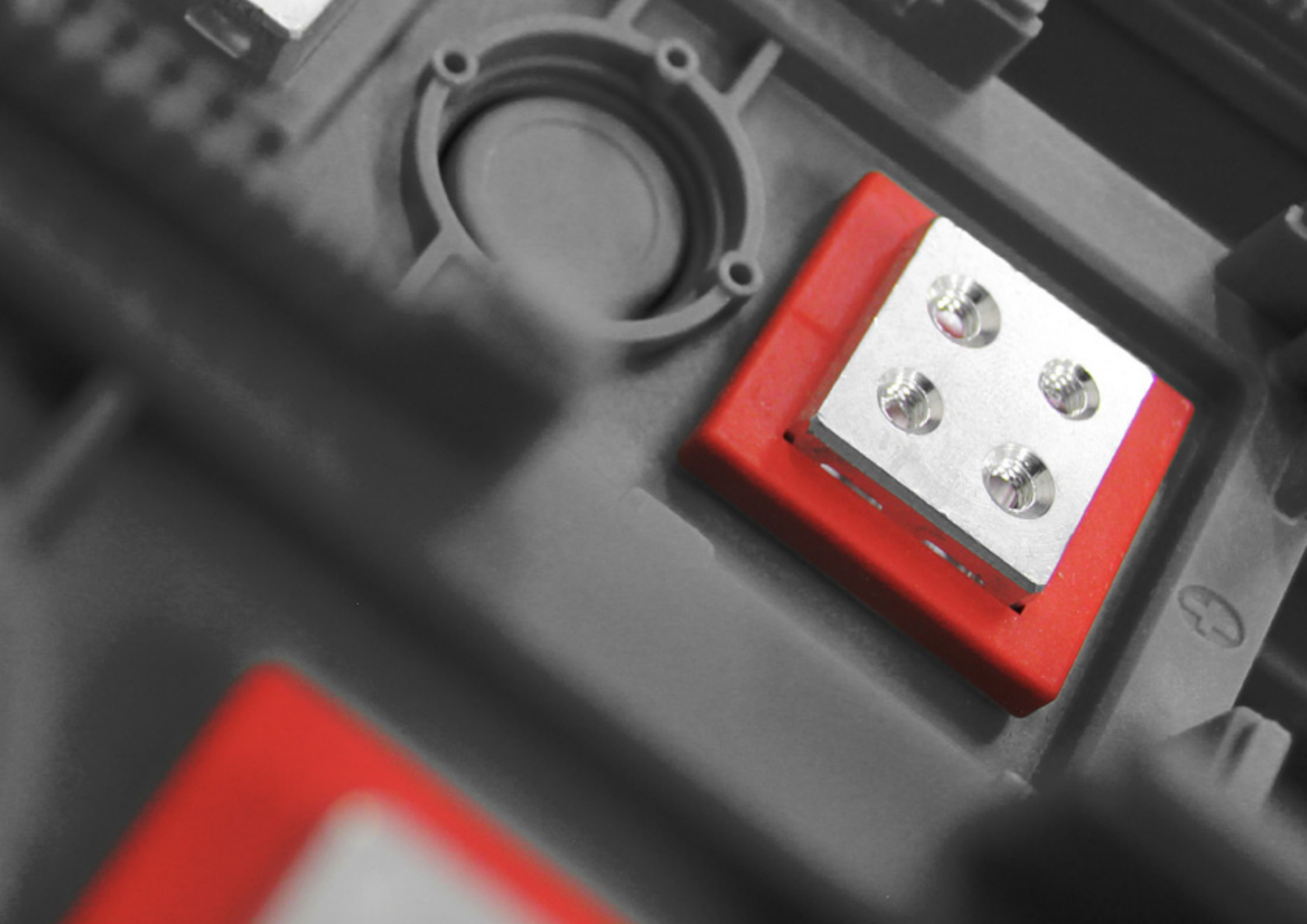
# 电池

我们的磷酸铁锂电池能够为您随时提供最充足的电量。您可根据您的卡丁车场馆自行选择40、60或者100安时的电池组。

# Batteries

Power as much as needed at every time: our LiFeMnPO<sub>4</sub> batteries (Lithium Iron Manganese Phosphate) demonstrate best, available technology. It's up to you using 40, 60 or 100 Ah.





# LED行车灯

在全新SiNUS iON卡丁车上装备的LED行车灯大大增强了卡丁车外观的运动性和侵略性。同时能够使车手在驾驶过程中更清楚地看到对方卡丁车的位置，从而增加了安全性。

# LED head lights

The integrated LED head lights are underlining the sportive design of the SiNUS iON. The improved visibility of the kart increases the drivers safety significantly.







# 无线车队管理系统

全新一代SiNUS卡丁车可选装一款智能集成无线模块。通过该无线模块可以使您的卡丁车运作过程更加透明可控。通过在电脑或是智能手机客户端操作，即可控制卡丁车的输出功率，并可实时监控所有卡丁车的运行数据。此外，只要在有无线网络的地方，您就可以随时随地管理您的车队。

## Wireless fleet management

The new SiNUS generation is optionally available with an integrated, intelligent wireless module. This allows a transparent business process and the monitoring of your business processes. Various power curves can be adjusted by pressing a button on a PC or smartphone and the vehicle parameters can be monitored. You can also get online access to your personal fleet management whenever you like.





lekom.de

10:13

68



2

# 传动装置

百分之百在德国研发和制造的双重传动装置一直以来是SiNUS系列电动卡丁车的重要基石。能够为您带来激动人心的动感驾驭体验——这一切都是MADE IN GERMANY。

## Drive technology

Breathtaking driving dynamics is an integral part of the SiNUS concept. All parts of the the duplex drive unit are MADE IN GERMANY - maintenance-free and premium-quality.









# SINUS<sup>ION</sup>



外部尺寸-长/宽/高=2020 mm / 1400 mm / 600 mm 自重 : 170 kg 起 ( 根据配置不同 )  
电池组 : 16块磷酸铁锂电池 , 3.2伏 , 40/60/100安时以及48伏系统电压

dimensions: l/w/h = 2020 mm / 1400 mm / 600 mm netto weight: from 170kg (depends on options)  
accumulators: 16 LiFEMnPo4 3.2V, 40/60/100Ah, and 48V system voltage

# SINUS<sup>ION</sup> 卡丁车标准配置

31.8 mm特殊合金底盘

2台2.8千瓦电动马达

40安时磷酸铁锂电池组

配重箱，最大30kg

双循环液压制动系统

全方位不锈钢管保护框架

RiMO塑料座椅 XL/XXL

用螺栓固定在减震橡胶垫上的座椅支架

用螺栓固定的转向柱

外球面轴承作为转向轴承

Caliba方向盘

可更换的转向柱轴承箱

防紫外线车身面板

RiMO原厂设计

邓禄普轮胎

带镂空RiMO标志的踏板

踏板润滑油注入口

自带踏板延长装置

刹车灯

附加配重槽，6x5kg

## Standards for SINUS<sup>ION</sup>

31,8 mm chassis, special alloy

2 x 2,8 kW engines

40 Ah Lithium Accumulators

Weight box up to 30kg

RiMO dual-circuit hydraulic brake system

Double tube surround bumper

RiMO plastic seat XL / XXL

Screwed seat rack mounted on silent blocks

Steering shaft support screwed

Upper clumb bearing

Caliba steering wheel

Replaceable bearing support for steering

Bodywork black UV-resistant

RiMO sticker set

DUNLOP tires

Closed pedal

Grease nipple on pedal

Pedal with built-in extension

Brake light

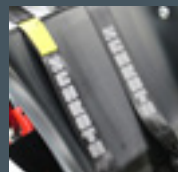
holder for additional weights (6 x 5 kg)

## SINUS<sup>ION</sup> 卡丁车选装组件

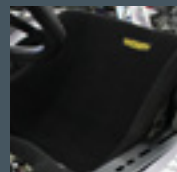
## Options for SINUS<sup>ION</sup>



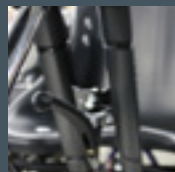
防滚架  
Roll bar



安全带（四点式或三点式）  
Safety belt  
(4-Point or 3-Point)



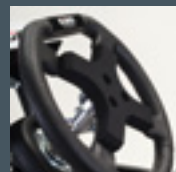
Tillett填充式赛车座椅 L / XL / XXL  
Tillett padded seat  
L / XL / XXL



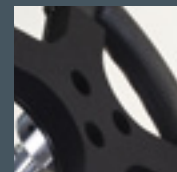
座椅前后调节功能  
Seat adjustment



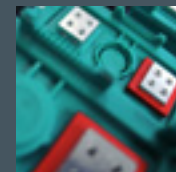
踏板延长装置安装位  
Mounting plate for  
pedal extension



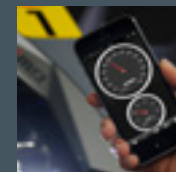
RiMO高档方向盘  
RiMO premium steering  
wheel



方向盘防冲击保护  
Impact protection for  
premium steering wheel



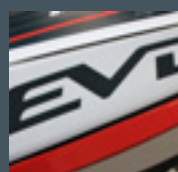
60/100安时电池组  
60/100 Ah Lithium  
Accumulators



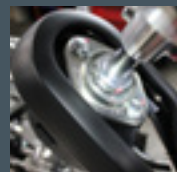
无线车队管理系统  
wireless Fleet-  
management



远程车速控制接收器  
Shutdown transponder



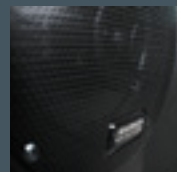
客户定制外观设计  
Bodywork design by  
customer request



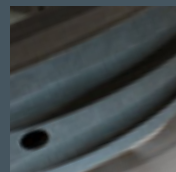
转向轴承保护  
Steering shaft retainer  
padded



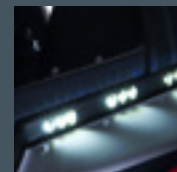
带有数字的磁性板  
magnetic  
shield



模拟音效系统  
Onbord-Sound



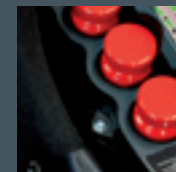
附加塑料防撞条  
Paddies



LED行车灯  
LED Spots



“动力增强”按钮  
Kers-Button



配重块  
Weights



在RiMO，采用时下最先进技术的SiNUS产品代表着未来驱动方式的全新概念。SiNUS的设计和研发完全由RiMO完成，与传统动力卡丁车不同，SiNUS产品均为纯电动卡丁车，从结构到技术都进行了全面革新。两台输出功率各为2.8千瓦电动马达为SiNUS卡丁车提供动力。与常见的直流电动马达相比，SiNUS所采用的48伏交流永磁同步电动马达（盘式电机）不会产生任何火花和碳粉。而为电动马达供电的磷酸铁锂电池组（www.elitepowersolutions.de）能够保证高效安全的运行。

## 优势

传动装置无需维护保养

保护类别IP 64 –满足各种天气条件使用（下雨同样可正常运行）

超高效率

电子差速器

后轮独立传动及制动

转向更轻松（没有固定的后传动轴）

轮胎磨损更小

制动能量回收（能量再生），从而降低能耗并降低刹车片磨损

可根据客户/赛道需求对卡丁车控制系统进行编程从而获得最佳驾驶模式

通过卡丁车控制系统可了解卡丁车的运行时间

最长连续行驶时间约60分钟/充电时间约60分钟

三种磷酸铁锂电池容量可供选择：40/60/100安时

安全无隐患的操控性

主要零部件均为德国生产

RiMO高级冷却系统（RACS）通过两个安装在侧面电池箱附近的风扇对电池组、电动马达以及传动装置进行散热。该冷却系统足以保证长时间驾驶的散热功效，并已通过24小时耐力赛的实际验证。

通过RiMO对废旧电池进行回收处理的过程完全符合德国《废电池管理法》的要求

与传统直流电机不同，交流电机运作时不会产生任何火花或粉尘

在错误操作以及电机过载时具有自动保护功能

倒车功能

重心位于纵轴线的对称底盘设计

同样适用于极热地区并经过实际检验

标配配重槽，可防止6块5公斤的配重块（配重块为选购组件）

The future of alternatives modes of driving has a name: RiMO SiNUS. We make use of the current technology for this system. The entire development was done by RiMO; the conception of the resulting next-generation technology differs significantly from competitive products.

RiMO uses 2 electric motors, each with a rated output of 2.8 kW; construction type is 48V AC magnet synchronous motor (shrunk-on-disk rotor) including neither brushes nor coals. The lithium-iron-manganese-phosphate4 cells (LiFeMnPo4 cells) (www.elitepowersolutions.de) ensure safe operation.

## Advantages

maintenance-free drive unit

protection category IP 64 - weather proof for outdoor usage (splash-water resistant)

very high efficiency

electronic differential

separate actuation and braking for both rear wheels

resulting minimized guidance forces (no rigid drive shaft)

resulting minimized tire abrasion

brake energy recovery, utilizing the motors retarding effort minimizes brake pad abrasion

free programmable controller allows customer-specific setup

uptime logged in the controller unit

operation schedule up to 60 min. / approx. 60 min. charging time

LiFeMnPO4 battery with total capacity of 40/60/100Ah available

safe and easy handling

components are predominantly made by German manufacturers

RACS (RiMO Advanced Cooling System) provides permanent cooling of the batteries, engines and gearboxes, the technique allows endurance races and is approved under real conditions in 24 hour races

disposal of the cells by RiMO in full conformity to the german battery law (BattG)

no fine dust load due to brushless motor, different from conventional direct current motors

design-conditioned overload protection of the motor also in case of faulty usage

reverse gear

symmetrical chassis results in balance point position on the longitudinal axis

usage in warm regions possible and approved under real conditions

holder for additional weights as standard (6 x 5 kg), weights optionally available

## SINUS MINI 卡丁车标准配置

31.8 mm特殊合金底盘

2台2.8千瓦电动马达

40安时磷酸铁锂电池组

双循环液压制动系统

全方位不锈钢管保护框架

RiMO 塑料座椅 L

螺栓固定座椅支架

用螺栓固定的转向柱

外球面轴承作为转向轴承

Caliba方向盘

可更换的转向柱轴承箱

防紫外线车身面板

RiMO原厂设计

邓禄普轮胎

带镂空RiMO标志的踏板

踏板润滑油注入口

自带踏板延长装置

## Standards for SINUS MINI

31,8 mm chassis, special alloy

2 x 2,8 kW engines

40 Ah Lithium Accumulators

Hydraulic brake system

Double tube surround bumper

RiMO plastic seat L

Screwed seat bars

Steering shaft support screwed

Upper clumb bearing

Caliba steering wheel

Replaceable bearing support for steering

Bodywork black UV-resistant

RiMO sticker set

DUNLOP tires

Closed pedal

Grease nipple on pedal

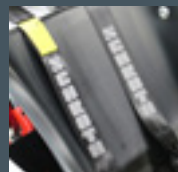
Pedal with built in extension

## SINUS MINI 卡丁车选装组件

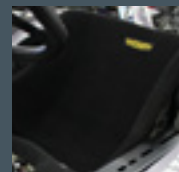
## Options for SINUS MINI



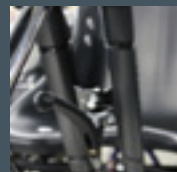
防滚架  
Roll bar



安全带 (四点式或三点式)  
Safety belt  
(4-Point or 3-Point)



Tillett 填充式赛车座椅  
L / XL / XXL  
Tillett padded seat  
L / XL / XXL



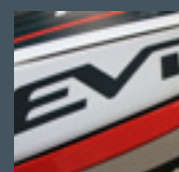
座椅前后调节功能  
Seat adjustment



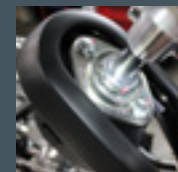
踏板延长装置安装位  
Mounting plate for  
pedal extension



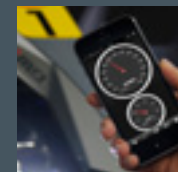
踏板延长装置安装位  
Shutdown transponder



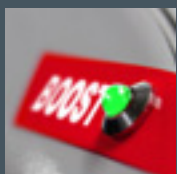
客户定制外观设计  
Bodywork design by  
customer request



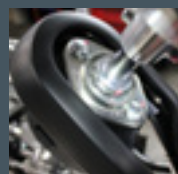
转向轴承保护  
Steering shaft retainer  
padded



无线车队管理系统  
wireless Fleet-  
management



“动力增强”按钮  
Kers-Button



转向轴承保护  
Steering shaft retainer  
padded



带有数字的磁性板  
magnetic  
shield





# SINUSmini

外部尺寸-长/宽/高=1760 mm / 1280 mm / 860 mm 自重 : 145 kg 起 ( 根据配置不同 )

电池组 : 16块磷酸铁锂电池 , 3.2伏 , 40安时

dimensions: l/w/h = 1760 mm / 1280 mm / 860 mm netto weight: 145 kg (depends on options)

accumulators: 16 LiFEMnPo<sub>4</sub>, 40 Ah, 3.2 V

## SINUS TWIN 卡丁车标准配置

31.8 mm特殊合金底盘

2台2.8千瓦电动马达

60安时磷酸铁锂电池组

带有四点式安全带防滚架的副驾驶座

双循环液压制动系统

全方位不锈钢管保护框架

RiMO塑料座椅 XL

用螺栓固定在减震橡胶垫上的座椅支架

用螺栓固定的转向柱

外球面轴承作为转向轴承

Caliba方向盘

可更换的转向柱轴承箱

防紫外线车身面板

RiMO原厂设计

邓禄普轮胎

带镂空RiMO标志的踏板

踏板润滑油注入口

自带踏板延长装置

## Standards for SINUS TWIN

31,8 mm chassis, special alloy

2 x 2,8 kW engines

60 Ah Lithium Accumulators

Roll bar with safety belt for co-pilot (4-Point)

Hydraulic brake system

Double tube surround bumper

RiMO plastic seat XXL

Screwed seat bars

Steering shaft support screwed

Upper clumb bearing

Caliba steering wheel

Replaceable bearing support for steering

Bodywork black UV-resistant

RiMO sticker set

DUNLOP tires

Closed pedal

Grease nipple on pedal

Pedal with built in extension

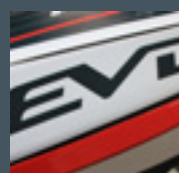
## SINUS TWIN 卡丁车选装组件



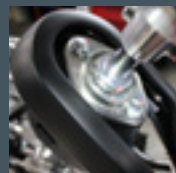
踏板延长装置安装位  
Mounting plate for  
pedal extension



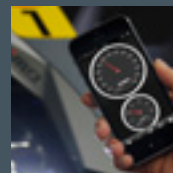
远程车速控制接收器  
Shutdown transponder



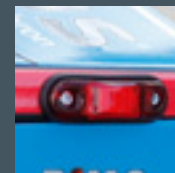
客户定制外观设计  
Bodywork design by  
customer request



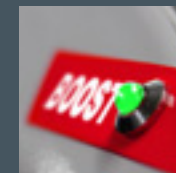
转向轴承保护  
Steering shaft retainer  
padded



无线车队管理系统  
wireless Fleet-  
management



“动力增强”按钮  
Brake light



“动力增强”按钮  
Kers-Button



带有数字的磁性板  
magnetic  
shield

## Options for SINUS TWIN

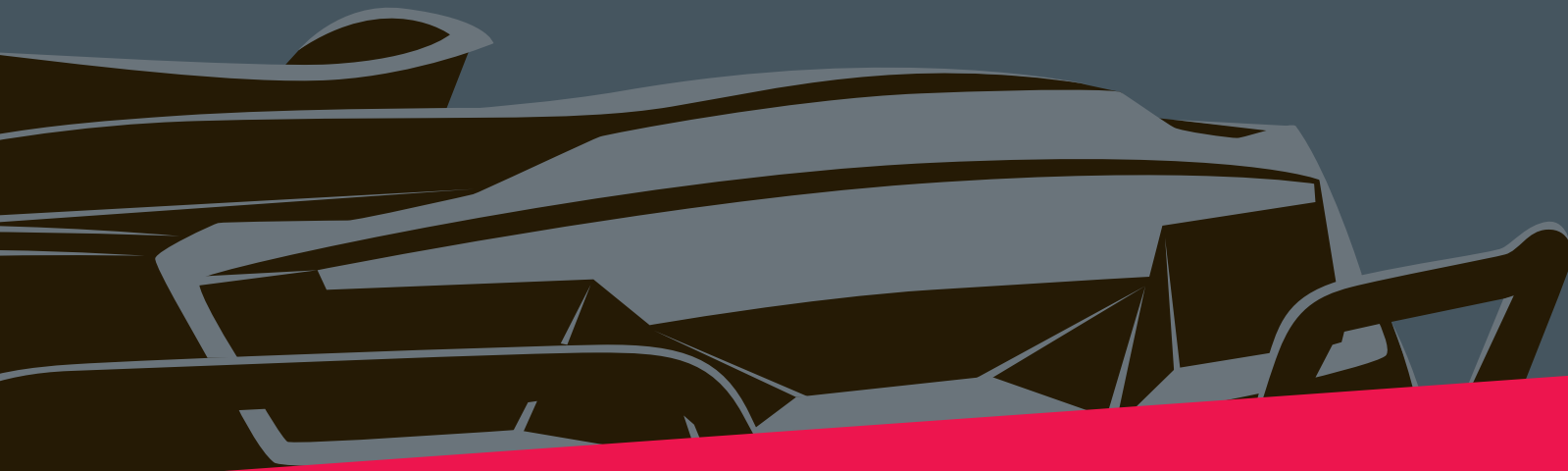


# SINUS TWIN

外部尺寸-长/宽/高=1900 mm / 1530 mm / 600 mm 自重 : 193 kg 起 ( 根据配置不同 )  
电池组 : 16块磷酸铁锂电池 , 3.2伏 , 60安时

dimensions: l/w/h = 1900 mm / 1530 mm / 600 mm netto weight: 193 kg (depends on options)  
accumulators: 16 LiFEMnPo<sub>4</sub>, 60 Ah, 3.2 V

**RiMO**  
GERMANY



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