

2018-2019

KYB

Our Precision, Your Advantage

Shock Absorbers Strut Assemblies

汽車避震器 汽車總成件

SHOCK ABSORBERS 2018-2019



NEW SR

日製運動版



Lower Sports
Lower Sports PLUS
Suspension Kit system

日製運動可調版



Excel-G

一般道路版



Strut+

總成版



Strut+ Sport

總成運動版

台灣總代理 永琴實業
ycb.com.tw



KYB

Our Precision, Your Advantage



Excel-G 系列
非改裝型
品質、服務、銷售

全球避震器大廠

傳承日本KYB百年工藝

深耕台灣市場半世紀



總代理 永琴實業

ycb.com.tw

永華機械工業股份有限公司為日本 **KYB** 在台子公司

授權經銷商

匯聖實業 02-82421718

信邑國際 02-29384004

泰元貿易 02-25319402

NEW SR SPECIAL

KYB
Our Precision, Your Advantage

Are you tired of ordinary driving performance
but don't want a harsh ride?
KYB New SR SPECIAL is the perfect choice!



Dependably enhancing the basic performance of running, turning and stopping in any car

■ KYB suspension tuning experts perform full vehicle testing for the installation of New SR shock absorbers and determine the optimal suspension characteristics for your particular car model.

■ We also modify the specifications of the original shock absorbers, such as by increasing the cylinder diameter, if such change(s) can be made and are considered necessary for improved performance.

■ We have designed our New SR Series mainly for use in "JDM (Japanese Domestic Market)" models, but we will become more proactive in pursuing the development of models for which there is also high demand among drivers in other countries.



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歐特仕汽車 台北 02-86676778 / 高雄 07-6140861

Lower Sports

KYB

Our Precision, Your Advantage

For cars with lowering springs, use shock absorbers that are specifically designed for them!

KYB Lower Series is a range of short-stroke shock absorbers specifically designed for lowered suspensions.

The Lower Sports shock absorbers can help the lowered suspension demonstrate its true performance.



Lower Sports PLUS Suspension Kit system.

ローファースポーツプラス

ただのローダウンじゃ物足りない!



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KYB

Our Precision, Your Advantage

StrutTM
-plus-
Sport

晉升操控與舒適樂趣

— KYB Strut Plus Sport 總成運動版 —

專業阻尼調校避震器 降低版加強彈簧
駕馭過彎側傾 抑制顛簸路面

日本設計
台灣製造



顛簸路面吸震



過彎側傾抑制



高於行業標準



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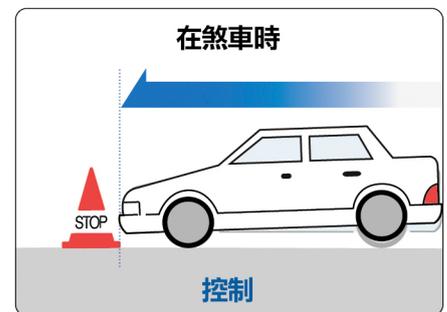
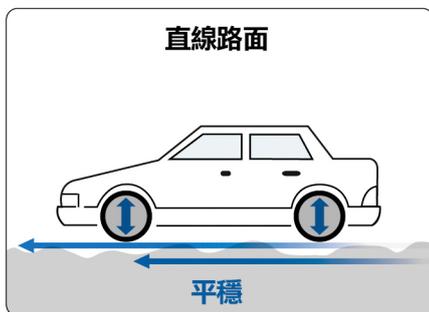
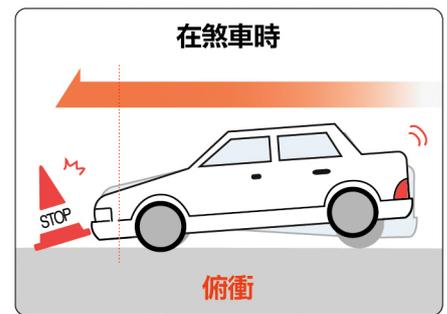
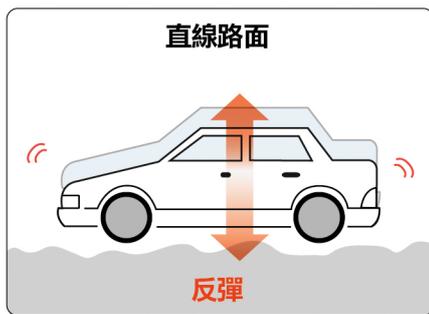
信邑國際 02-29384004



當更換避震器之後...

When Shock Absorbers Are Replaced...

When Shock Absorbers Are Worn... / 當避震器老舊時



Replacement Checklist >>>

1. Distance traveled is over 50,000 km.
2. Tire treadwear indication
3. A seeming abnormality in shock absorbers: a leak in the oil seal, a noticeable dent in the outer shell, deterioration or damage to the rubber on the mounting bush

更換時的檢查要領 >>>

1. 行駛距離超過五萬公里
2. 輪胎有打滑徵兆
3. 避震器外觀發現異常變化：油封處有滲漏現象、外殼有顯著凹陷、底座部分的軸襯、橡膠老化或破損。

Vibration

When accelerating and braking, the car's body bounces up and down, causing an unstable ride.

Difficulty Turning

When taking a corner, the shock absorber's compression speed is too high, making it harder to return.

Difficulty Stopping

When stopping, the car nose dives, and the distance required to stop increases.

起步不穩

起步或煞車時車身上下劇烈顛簸，乘坐者感覺不穩。

轉彎失靈

轉彎時傾斜速度較快，方向盤會有失靈傾向。

煞車不靈

煞車制動時向前衝勢較猛，制動距離較長。



More Comfort

Road shock and small vibrations decrease, and the car remains flat for a smooth, comfortable ride.

More Stability

Roll is more controlled, nose dive and acceleration squat are reduced.

More Safety

Stability and controllability show remarkable improvement when going straight or taking a corner, and braking distance decreases.

更舒適

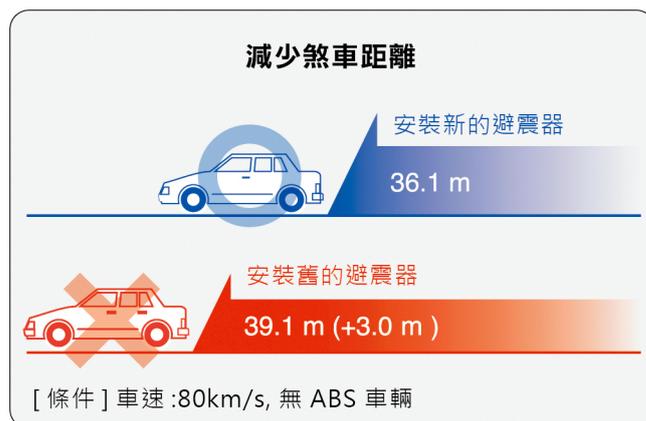
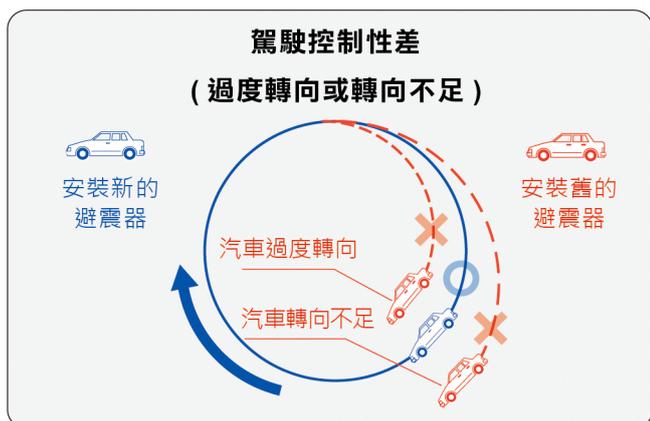
上下顛簸感，細小震動減少，使乘坐更加平穩舒適。

更穩定

車體的搖擺得到抑制，剎車時的前衝感以及起步時的聳動感減少。

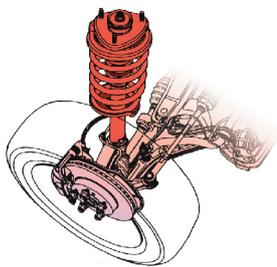
更放心

直行、轉彎的操縱穩定性顯著提高，制動距離亦得以控制。



KYB 的避震器介紹...

KYB's Shock Absorbers Are...



Quality and Control

One out of every two cars in Japan and one out of every five cars in the world is equipped with KYB shock absorbers. To live up to such consumer confidence, KYB designs products that improve driving stability from the streets to the highway in order to provide the driver with handling and control. Representative of this are Premium, Excel-G and Gas-A-Just.

輕柔且有力

在日本每兩台汽車中就有一台、世界上每五台汽車中就有一台搭載有 KYB 的避震器。為了不辜負如此的厚愛，KYB 為消費者準備了提高汽車行駛穩定性的產品，無論是一般道路還是高速公路，都能使您體驗到頂級的平穩駕感。其中最具代表性的就是 Excel-G、Premium 和 Gas-A-Just。

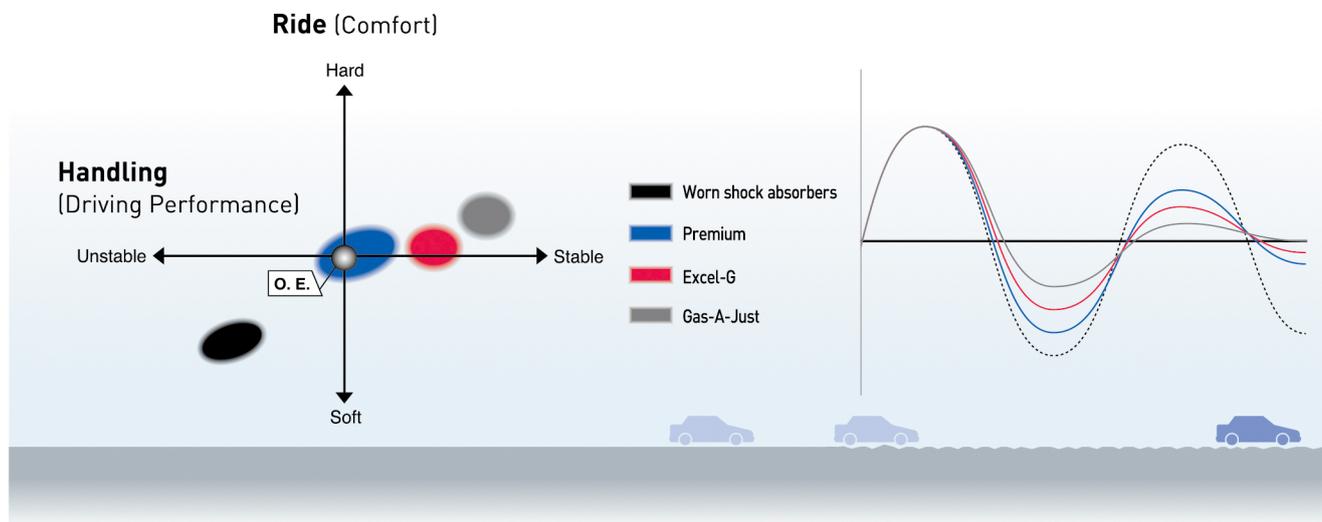


34 Series Gas Filled Twin Tube Type
33 Series Gas Filled Twin Tube MacPherson Strut Type
36 Series Gas Filled Strut Cartridge Type

For a Quality Ride — **Excel-G** 高質量的行駛

- Adopts a low pressure gas filled type twin tube construction
- Corresponds with the suspension geometry of all car models, from the struts to the multilink
- Achieves a high dimensional combination of quality ride, stability, and controllability while placing emphasis on retaining a car's individual feel
- Uses multilip oil valves, high quality oil, three stage valves, and ensures a high performance standard

- 採用了低壓氣體注入式雙筒構造
- 適用於所有車型的從壓杆到支柱式避震器各種懸架形狀
- 在重視獨創品味的同時，從更高層面實現了乘坐舒適感和操縱穩定性的共存
- 採用多唇油封、優質油、三段閥，以確保優良的基本性能和耐久性。



44 (13) Series Shock Absorber (Except 136 series)
63 Series MacPherson Strut Type
66 Series Strut Cartridge Type

For a Stable Ride — **Premium**
穩定的行駛



55 Series Gas Filled Mono Tube Type

For a High Performance Ride — **Gas-A-Just**
高性能的行駛



- Adopts a twin tube construction
- Ensures superb durability with high precision cylinder and high quality oil

- 採用雙筒結構
- 採用高精度氣缸和優質油，確保高耐久性



- Adopts a high pressure gas filled type monotube construction
- Exercises high speed performance for use in long distance driving
- Ensures superb durability with high precision cylinder and high quality oil

- 採用高壓氣體注入式單筒構造
- 在遠距離高速行駛中發揮性能
- 採用高精度氣缸和優質油，確保優良的耐久性

避震器詳細解析... About Shock Absorbers...

There are 2 basic designs used for shock absorbers:
twin tube type and mono tube type.

避震器一般可分為雙筒式和單筒式兩種

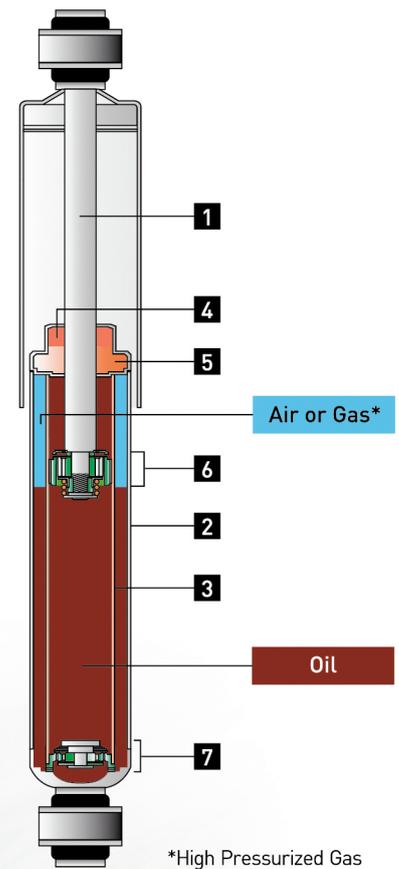
1. Twin Tube Shock Absorbers

In the twin tube type structure of the outer seal and the interior of the cylinder, oil is injected into the interior of the cylinder and the reservoir. The remainder is filled with only air (oil type standard shock absorber) or only nitrogen gas (twin tube gas shock absorber) (low pressure type with filler gas pressure of 10 kg/cm² or less).

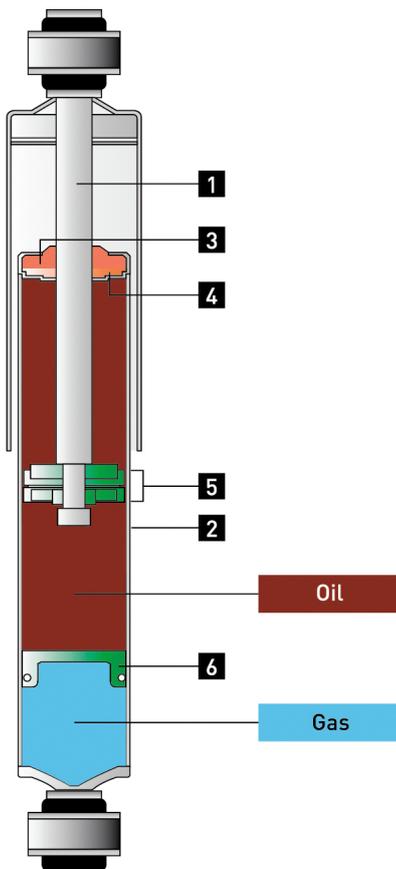
- The valve which provides damping force is made of two parts, which makes precision tuning easy.

由外殼與內部汽缸組成的雙重構造，油被注入至汽缸內部和油箱中。其餘的僅注入空氣（油壓式標準避震器）或氮氣（雙筒式氣壓避震器）（注入氣壓為 10kg/cm² 以下的低壓型）。

- 阻尼力發生閥有兩處，因此較易進行精密微調。



- 1 >>> Piston Rod
- 2 >>> Outer
- 3 >>> Cylinder
- 4 >>> Seal (Oil Seal)
- 5 >>> Rod Guide
- 6 >>> Piston Valve Unit
- 7 >>> Base Valve Unit



2. Mono Tube Shock Absorbers

In the cylinder section of a mono tube type structure, the interior of the tube is divided into the oil chamber and the gas chamber by an oil-filled free piston. The remainder is nitrogen gas (high pressure type with filler gas pressure of 15 kg/cm² to 30 kg/cm²).

- As gas pressure is high, the damping force retains stability.

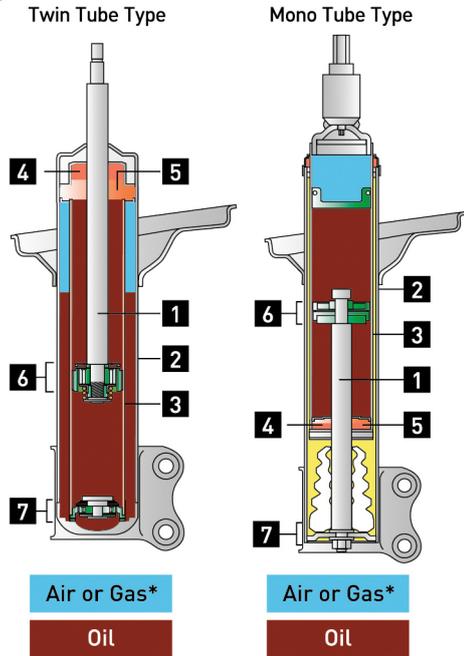
為僅有汽缸的單筒構造，筒內注滿油，被自由活塞分為油艙與氣艙。其餘的注入氮氣（注入氣壓為 15kg/cm²~ 30kg/cm²的高壓型）。

- 因經常保持高氣壓，阻尼力較穩定。

- | | |
|----------|----------------------------|
| 1 | >>> Piston Rod |
| 2 | >>> Outer |
| 3 | >>> Seal (Oil Seal) |
| 4 | >>> Rubber Cushion |
| 5 | >>> Piston Valve Unit |
| 6 | >>> Floating Diving Piston |

避震器詳細解析... About Shock Absorbers...

3. MacPherson Strut



*High Pressurized Gas

As a component of the suspension, the strut controls the function of positioning a car's wheel.

懸架構件的一部分，是決定車輪位置的結構性部件，故此確保了其高強度。

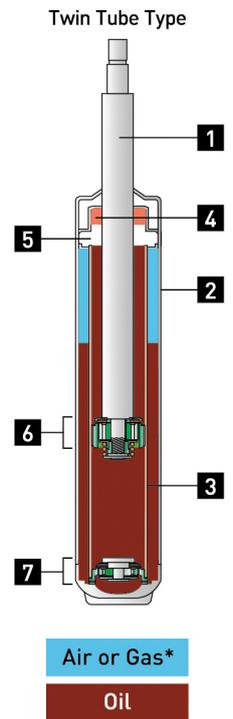
- 1 >>> Piston Rod
- 2 >>> Outer
- 3 >>> Cylinder
- 4 >>> Seal (Oil Seal)
- 5 >>> Rod Guide
- 6 >>> Piston Valve Unit
- 7 >>> Base Valve Unit

4. MacPherson Strut Cartridge

This is a replacement part for the functional portion of the strut which provides damping force.

僅用於更換壓桿中阻尼力發生的功能性部分。

- 1 >>> Piston Rod
- 2 >>> Outer
- 3 >>> Cylinder
- 4 >>> Seal (Oil Seal)
- 5 >>> Rod Guide
- 6 >>> Piston Valve Unit
- 7 >>> Base Valve Unit

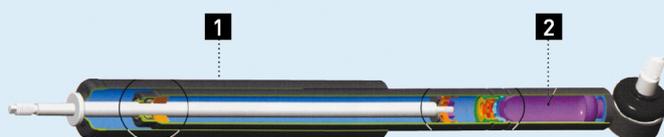
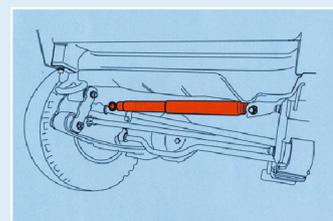


*High Pressurized Gas

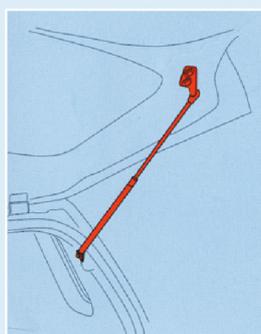
Steering Damper “KS” Series

This damper controls sudden steering wheel movements based on adjustments to road conditions.

用於抑制路面原因引起的方向盤劇烈抖動的阻尼器。



- 1** >>> Protective Shell
- 2** >>> Specially Designed Air Chamber



Stay Damper (Gas Spring) “110000” Series

Gas springs are used to open and close the rear doors of hatchbacks and recreational vehicles.

用於掀背式轎車或RV車的后門開關的 Gas Spring。



- 1** >>> Crack Free Chromed Piston Rod
- 2** >>> High Pressure Nitrogen Gas & Oil
- 3** >>> Seamless Cylinder

KYB 團隊 避震器生產工廠 ...

KYB Group's Shock Absorber Manufacturing Plants ...





Since our inception in 1935, KYB has persistently pushed to offer ever better products to our customers as a company which practices *Monozukuri* (manufacturing expertise). In the future, we plan to continue producing technologies aimed at customer satisfaction with our colleagues all over the world.

自 1935 年開展業務以來，秉持為客戶提供更好的產品為原則，始終致力於打造優質產品的公司形象。

今後，我們仍然將繼續發揮 KYB 的技術優勢，為全世界的同行與客戶們提供更好的服務。



KYB Developmental Experiment Center
Test course

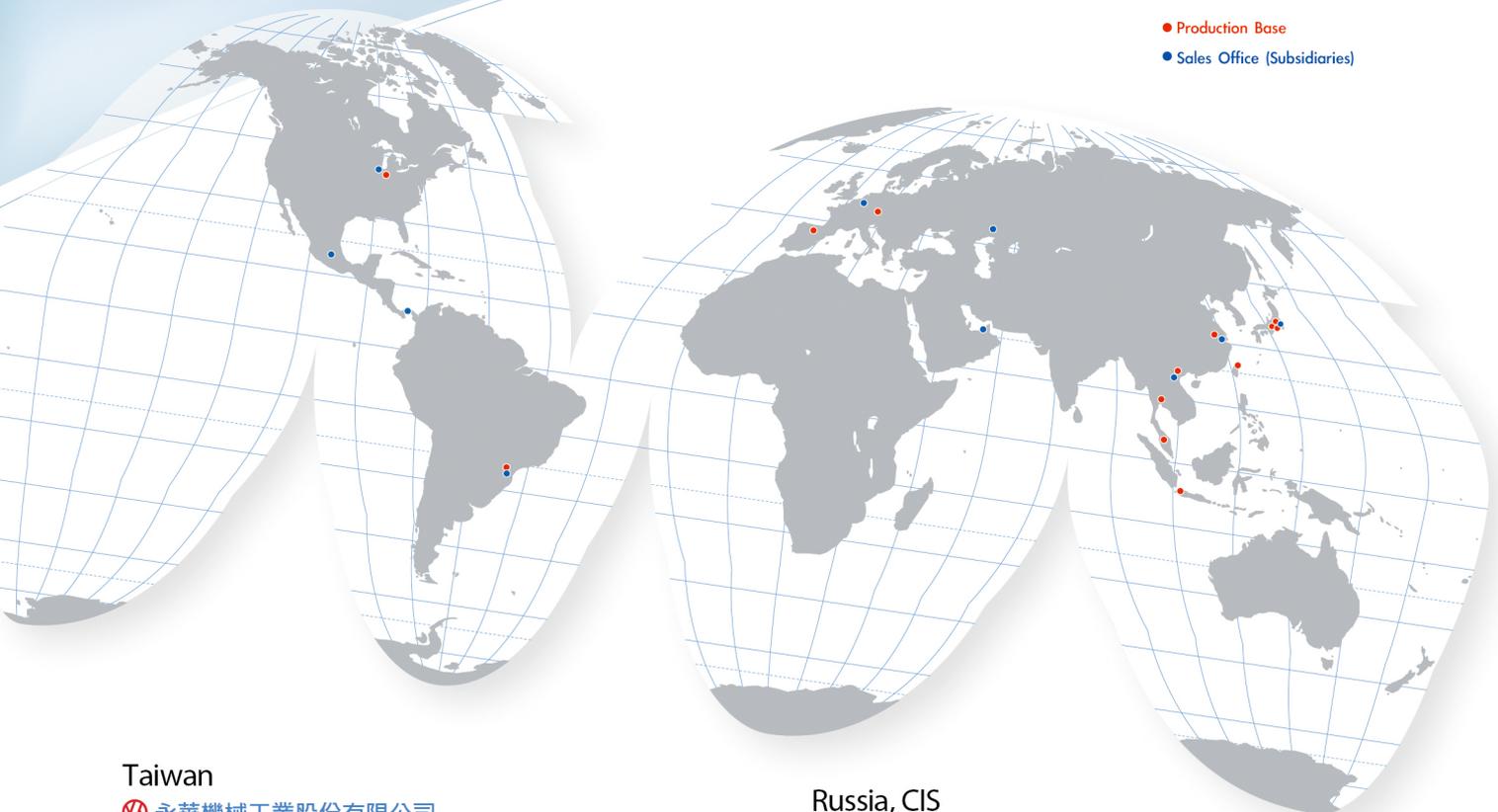


Gifu North Plant



KYB 全球各分部據點地圖...

Global Network for Aftermarket Shock Absorber Sales...



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kyb.com.br

KYB

Our Precision, Your Advantage



Strut+ plus

總成避震器全新时代名詞

KYB Strut Plus

一體到位的汽車懸吊解決方案：

品質嚴選：KYB 日系精工避震器搭配專屬彈簧、上座組、緩衝塊與防塵套等 7 項超優質總成配備

安全保固：通過標準耐久測試，並提供產品保固責任，為安全把關

省時省錢：降低安裝時間與失誤，ALL IN ONE 的總成具備絕對價格優勢

KYB Strut Plus 您更換總成避震器的唯一選擇



總代理 永琴實業

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永華機械工業股份有限公司為日本 **KYB** 在台子公司

授權經銷商

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