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Unlocking Growth in China

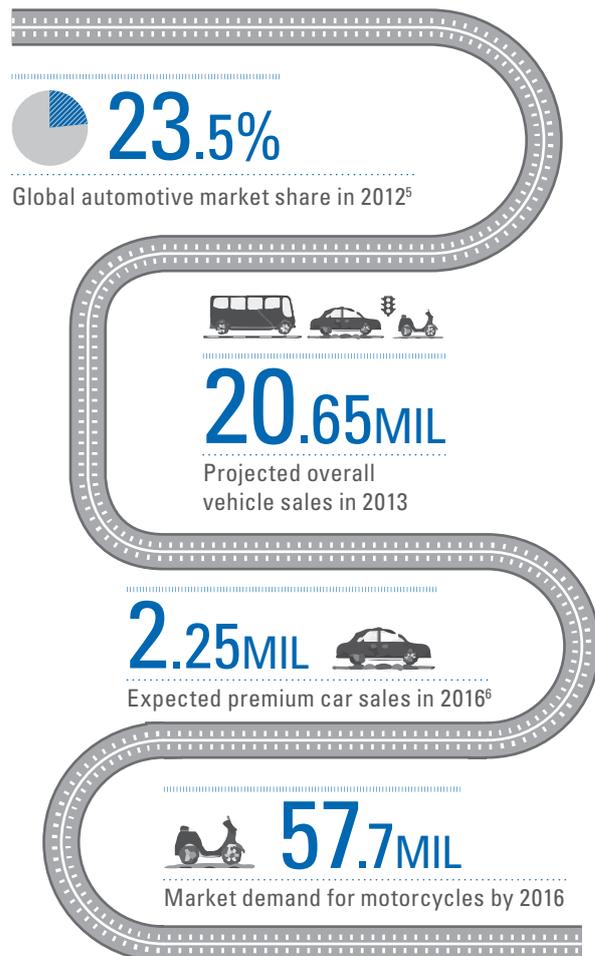
Achieving CCC compliance to bring
automotive products to market

A new era of automotive growth in China

In the past decades, China has experienced unprecedented growth to become the world's second largest economy, achieving an average of around 10 percent GDP growth per year¹. The size of its industrial output and continued influx of foreign investments into the country have further enabled China to establish itself as the world's largest trading nation² — with a growing influence in key industries including automotive manufacturing.

Spurred by its rise as a leading global economic force, China has leapfrogged other major car-producing countries to become the world's largest automotive market. According to the China Association of Automobile Manufacturers, the volume of vehicle sales, including cars and buses, in China alone is projected to reach 20.65 million units in 2013, surpassing 20 million units for the first time³. The Chinese motorcycle industry is also experiencing a surge, with the demand for motorcycles in the country projected to reach 57.7 million units in 2016⁴.

Besides the sheer magnitude of Chinese automotive production, the domestic automotive market is also moving up the value chain and China is well poised to become the world's largest premium car market.



1 International Monetary Fund, World Economic Outlook Database, April 2013
2 Bloomberg, China Eclipses U.S. as Biggest Trading Nation, Bloomberg, 11 February 2013
3 Bloomberg, China 2013 Auto Sales May Accelerate This Year to Top 20 Million, 11 January 2013
4 Freedonia Group, Motorcycles in China to 2016, February 2013
5 WardsAuto, World Vehicle Sales Surpass 80 Million in 2012, 1 February 2013
6 McKinsey & Company, Upward Mobility: The Future of China's Premium Car Market, March 2013



Ensuring quality and safety with the CCC Mark

As part of China's efforts to maintain a high level of quality and safety in the fast-growing automotive market, **manufacturers and importers have to ensure that their products are certified in accordance with the China Compulsory Certificate (CCC) Mark** — a mandatory requirement for both domestically manufactured products as well as products imported into China.

What is the CCC Mark?

The CCC Mark is administered by a number of government agencies, namely the General Administration of Quality Supervision, Inspection and Quarantine (AQSIQ) and the Certification and Accreditation Administration (CNCA).

The China Quality Certification Centre (CQC) is then designated by the CNCA to process the CCC certification for all products.

A wide range of automotive products require the CCC Mark. This includes whole, completed or incomplete vehicles that fall in the L, M and N category, as well as motorcycles in the O category; this requirement is not applicable for small series certification.

The CCC Mark is also mandatory for a broad range of automotive components, which can be further broken down into three categories:

Safety Parts and Accessories

Applicable to both vehicles and motorcycles

Interiors, electrical and electronics, power train and chassis, mirrors, external lighting and signalling products, body and main vehicle parts, and other miscellaneous auto parts

Safety Glass

Applicable to vehicles only

Laminated glass A, laminated glass B, zone-tempered glass and tempered glass

Vehicle Tyres

Applicable to both vehicles and motorcycles

Radial ply tyres, diagonal tyres, ultra-light truck tyres, light truck tyres, medium/heavy truck tyres and motorcycle tyres



Understanding the certification process

Automotive manufacturers and suppliers exporting into China have to go through a five-step process to obtain the CCC Mark. The certification process involves a comprehensive assessment of a product's performance as well as a thorough factory inspection conducted in the country of manufacture. Following that, it is mandatory for annual audits to be conducted to ensure that the CCC certification is properly maintained.



Five steps for achieving CCC compliance

1

Application for CCC Certification

The applicant is required to prepare and submit all necessary documents as well as the application for accreditation to the Chinese authority.



2

Acceptance of Application

Once documents are accepted, the applicant will receive a CCC factory code for the specific product along with the requirements for product testing.



3

Product Testing

All product testing has to be conducted in accredited test labs in China, a process which will take from two to eight weeks depending on the product.

During certification, one product test for each certification unit must be performed according to the Chinese Guobiao (GB) standards. Although the Chinese standards correspond largely to international standards, such as ECE/CE regulations, the Chinese authorities would not recognise test reports or certificates from other countries. All test reports will be issued in Chinese.

4

Factory Audit

The factory audit inspection is a mandatory process to ensure that the manufacturing facility meets quality controls under CCC requirements. To be conducted by two auditors, the entire process can last from one to five days.

As part of the audit process, manufacturers need to meet the following requirements:

- Quality management practices must be regularly updated in order to comply with relevant CNCA requirements, as well as the prevailing GB standards
- Products that are being manufactured while the audits are being conducted should be identical to the products sent to the test lab
- Employees responsible for maintaining

the factory's quality management standards must possess the relevant qualifications

- The factory must be equipped with the necessary devices to conduct internal product quality inspection, or regular external testing must be conducted at accredited labs
- All quality testing and CCC marking processes need to be properly documented, and measures must be taken to ensure that no product is CCC-marked before being certified

Since the factory audit inspection is similar to a number of other international quality management audits, the factory inspection process can be easier for companies with prior ISO certification.



5

Printing Permission of CCC Mark Granted

After the applicant receives approval from CNCA, the CCC Mark will be assigned. Certified products must bear the original CCC Mark sticker as well as the factory code, which could be pressure-stamped, moulded or laser-marked onto the products before it can be exported to China.



* Follow-up inspections will be conducted annually to ensure that manufacturers comply with CCC requirements. The CCC Mark must be renewed every four to five years depending on the validity of certification.

Helping you obtain the CCC Mark

As a manufacturer or supplier, managing an automotive project can become considerably more complex and cumbersome without first having a proper understanding of CCC certification.

To be sure, CCC certification can be more complicated for companies with only a limited knowledge of the product testing and factory inspection processes involved. Fluency in the local language is another significant factor, as the CCC applications have to be done in Chinese.

It is thus important for you to gain a clear understanding of the CCC requirements, and [work with a partner who can provide the necessary local homologation support](#) to ensure that your components are certified in a timely and effective manner.

Opportunities and challenges of entering China's automotive market:

OPPORTUNITIES

CHALLENGES

1

Strong Potential

of the Chinese automotive manufacturing sector, with growth trends expected to continue over the next few years

Cumbersome Processes

associated with CCC certification add significant cost and complexity, especially for automotive manufacturers unfamiliar with Chinese requirements

2

Growing Affluence

and urbanisation drive in China will continue to spur demand for automobiles

Understanding the Requirements

for CCC certification is essential for any manufacturer or supplier entering into China, but can be a time-consuming process

3

Emerging Premium Car Market in China

presents opportunities for automotive manufacturers to carve a unique niche in supplying high-quality automotive parts

Local Language Barriers

exist, and an in-depth knowledge of the Chinese language is required for CCC applications and keeping updated on future rule changes

Gain access to the world's largest automotive industry with TÜV SÜD

TÜV SÜD is a leading independent technical service organisation with extensive experience in providing type approval and homologation services to automotive manufacturers across the world. Supported by a global network of testing facilities and homologation experts, we offer the complete range of project management services to help you manage the whole certification project, from start to end, ensuring a smooth CCC homologation process.

To further maximise the efficiency of our services, your entire project is managed through our local team in China, who understands all your requirements and speaks your language. We provide a single contact point for the following services:

Homologation support services

We assist you in meeting the requirements to obtain the mandatory CCC Mark, to export your automotive products to the Chinese market.

Component testing

We conduct the full range of testing services in our ISO-accredited labs in China to ensure that you meet CCC requirements.

Post-certification support

We remind the manufacturer of future requirements for re-testing or re-audits, and provide periodic updates on changes in regulations or standards.

Multiple compliance management

TÜV SÜD helps you understand and identify the overlaps and evolving requirements of different regulations so that you can achieve multiple certifications within one project.

ENJOY THE FOLLOWING BUSINESS BENEFITS WHEN YOU WORK WITH TÜV SÜD:

Maintain a single point of contact who understands your business and the requirements to meet your specific certification needs

Save time and money by letting us assess your products for multiple type approval requirements in a single, streamlined process

Minimise risks by using our services to avoid loss of sales revenue from being denied access to your customers in China

Access the largest automotive market quickly with the help of our local experts to meet certification requirements ahead of official deadline

Visit www.tuvsud.com/contact to find a local contact in one of our 800 locations worldwide or email automotive@tuvsud.com with your questions to get a precise understanding of the requirements, where our in-country automotive experts will provide you with complete homologation support.



Contact us to find out how we can optimise your entire value chain

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Add value. Inspire trust.

TÜV SÜD is a trusted partner of choice for safety, security and sustainability solutions. It specialises in testing, certification, auditing and advisory services. Since 1866, the company has remained committed to its purpose of enabling progress by protecting people, the environment and assets from technology-related risks. Through more than 24,000 employees across over 1,000 locations, it adds value to customers and partners by enabling market access and managing risks. By anticipating technological developments and facilitating change, TÜV SÜD inspires trust in a physical and digital world to create a safer and more sustainable future.

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