

The situation of China auto body equipment and the direction for future development



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The status of China automobile mold industry

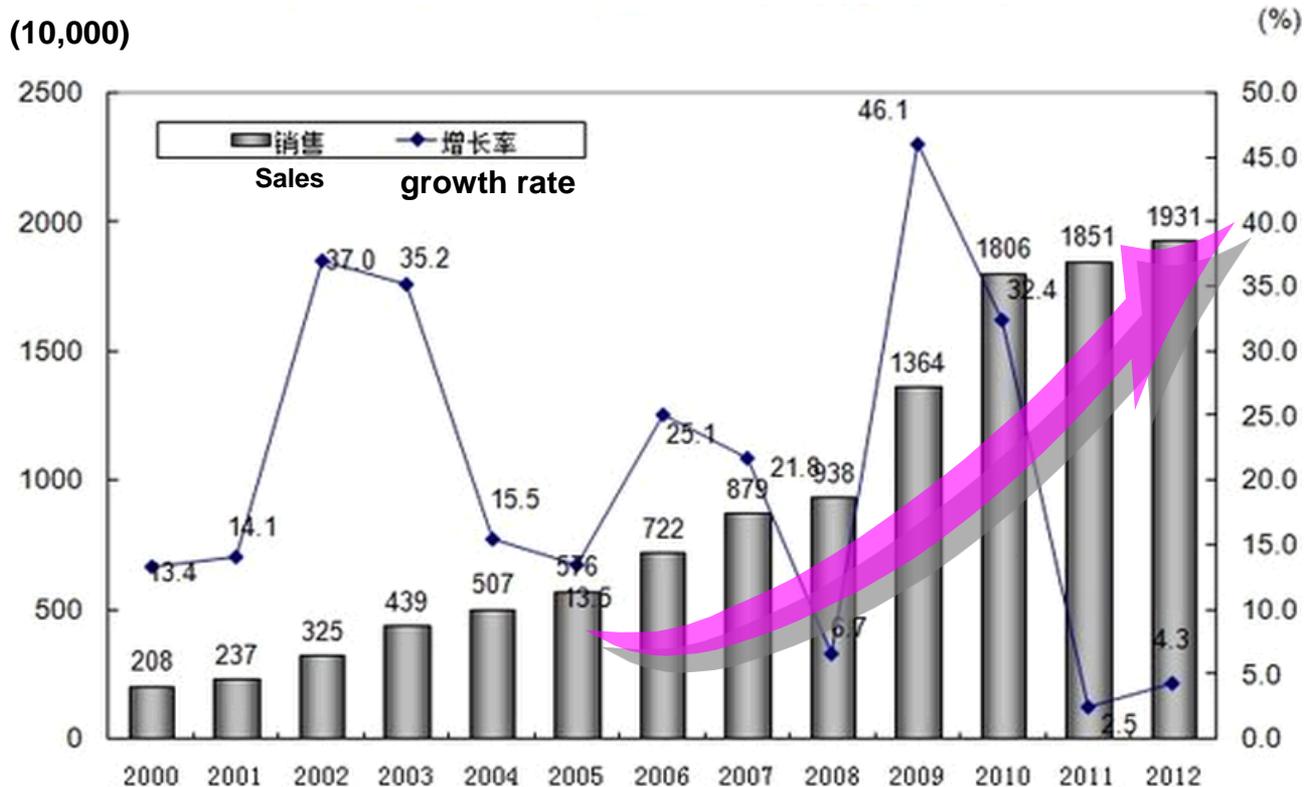


China's automobile production and sales amount in 2012 was 19,310,000 vehicles, which is the number one in the world.

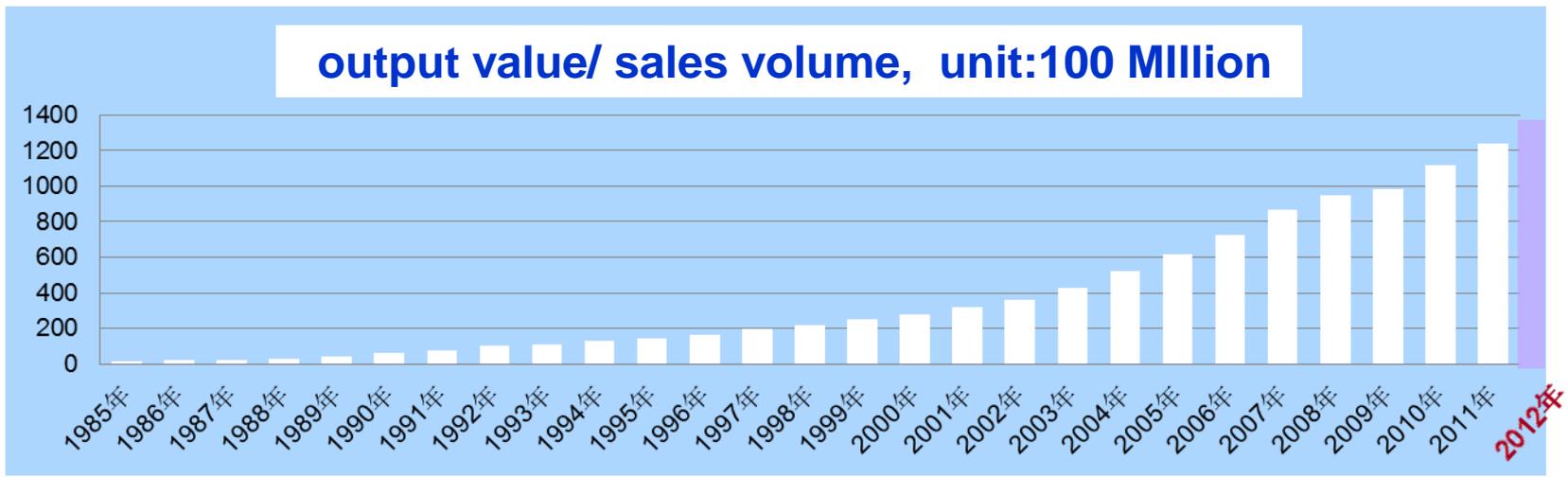
In the first seven months in 2013 the production and sales amount was 12,330,000 vehicles.

The annual production and sales amount is expected to exceed 20 millions vehicles.

China's automobile sales amount and growth rate from 2000 to 2012



The total mold sales volume in China was 137 billions in the year 2012



- The average annual growth rate of mold output value/ sales volume in China from 1985 to 2000 was 12.4%, from 2000 to 2012 it was nearly 30%. The growth rate met the growth of Chinese automobile industry.
- The total mold sales volume in China was 137 billions RMB in the year 2012, the sales amount of automobile mold (including tyre mold) was 45 billions RMB, accounted for one third of the total number.

With the development for more than 10 years, China has become big country of automobile mold manufacturing in the world.

- China is capable to manufacture all kinds of automobile mold, basically meet the requirement of China' s automobile industry for automobile mold. (fulfillment rate is over 90%) .
- The automobile mold in China is capable of exportation. Export sales of China' s mold in 2012 reached 3.731 billions dollar, in which the automobile mold accounted for 25%, about 950 millions.

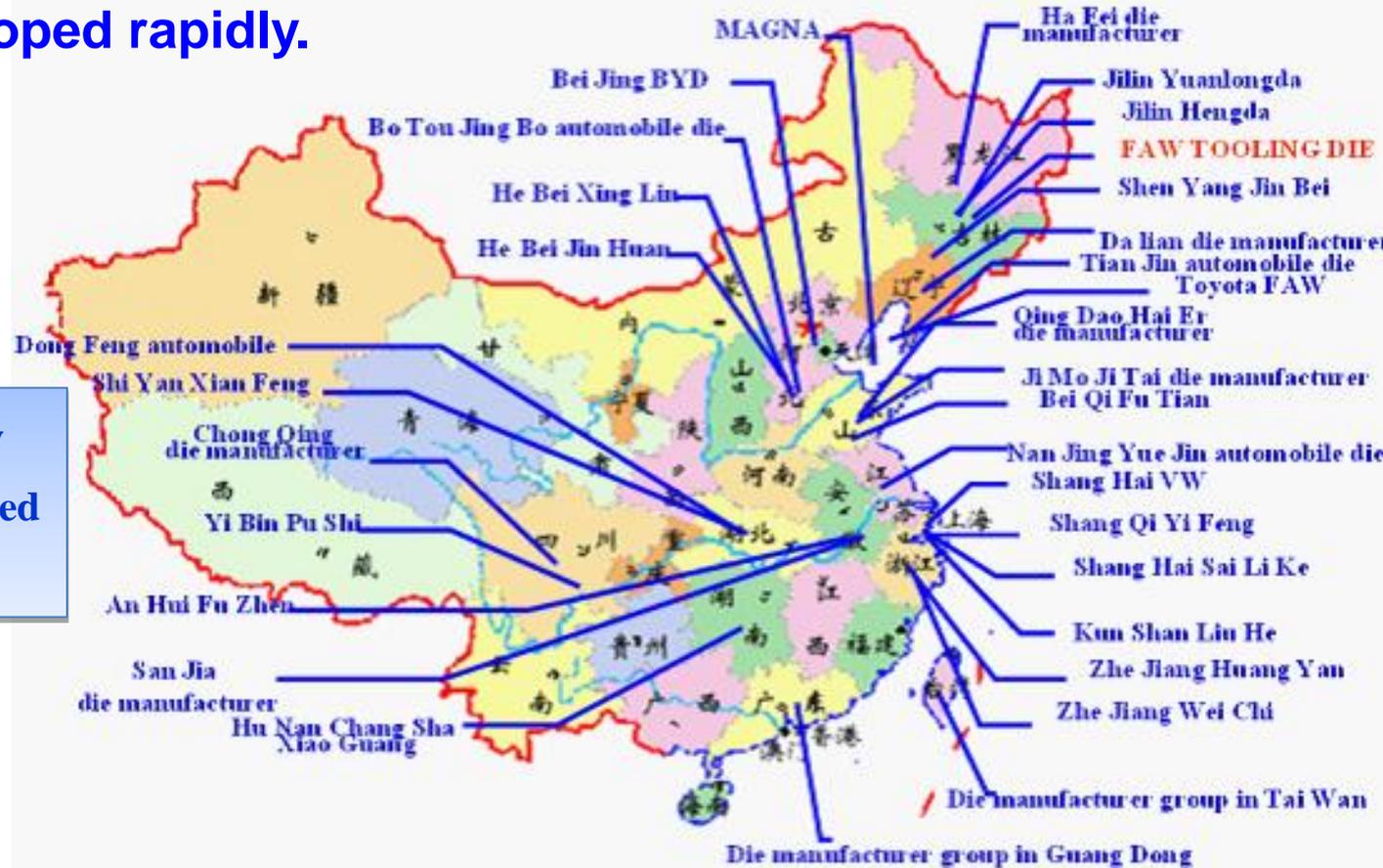


The development history of China's automobile equipment industry

China's auto body equipment industry has entered a new period. Some of key technologies have approached or reached international advanced level.



From 2000 to 2012 China's automobile mold industry has developed rapidly.



New mold enterprises grow up rapidly, the size and speed are top of the world.

There are more than 100 mold enterprises of big scale in China, 50 of them have annual output over 100 millions. There are 1500 large NC machines.

Die manufacturing companies of biggest scale are in China

DONG FENG



TQM



FAW TD



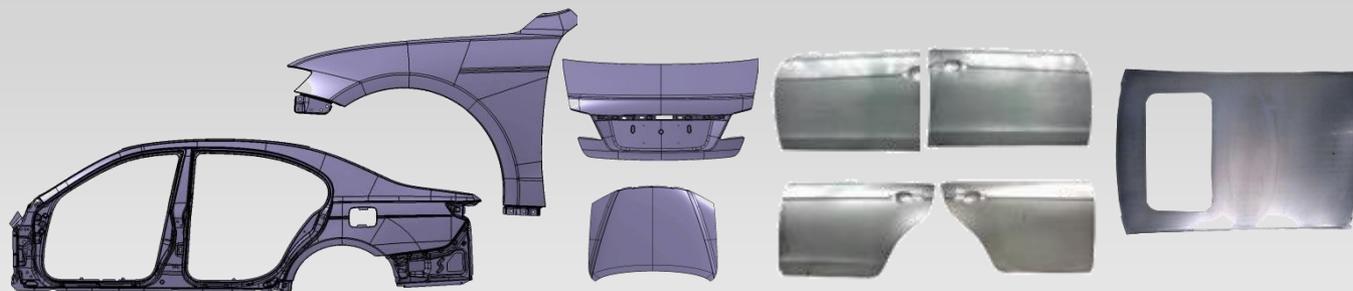
CITC



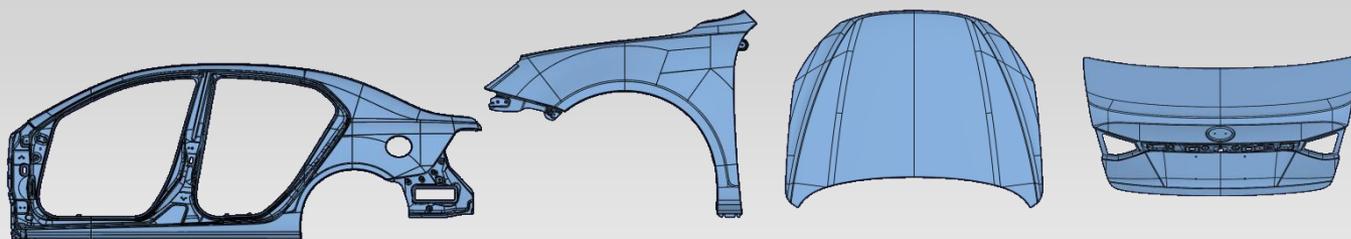
Dies for whole car.

Body side and fender panel dies for high-class cars

HONG QI H7



BUSTURN B90

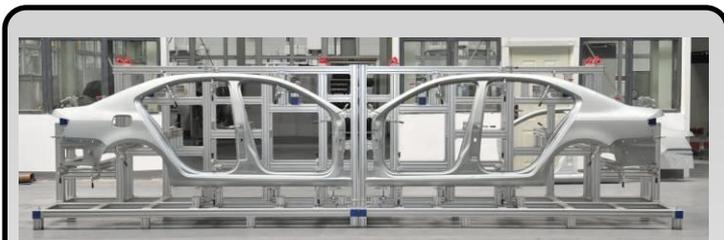
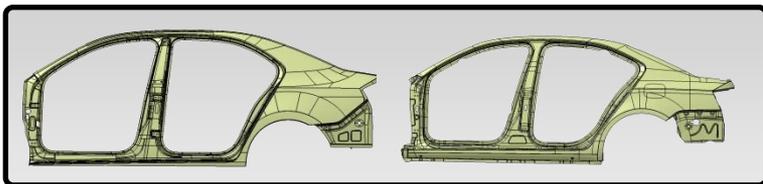


BUSTURN SUV-X80

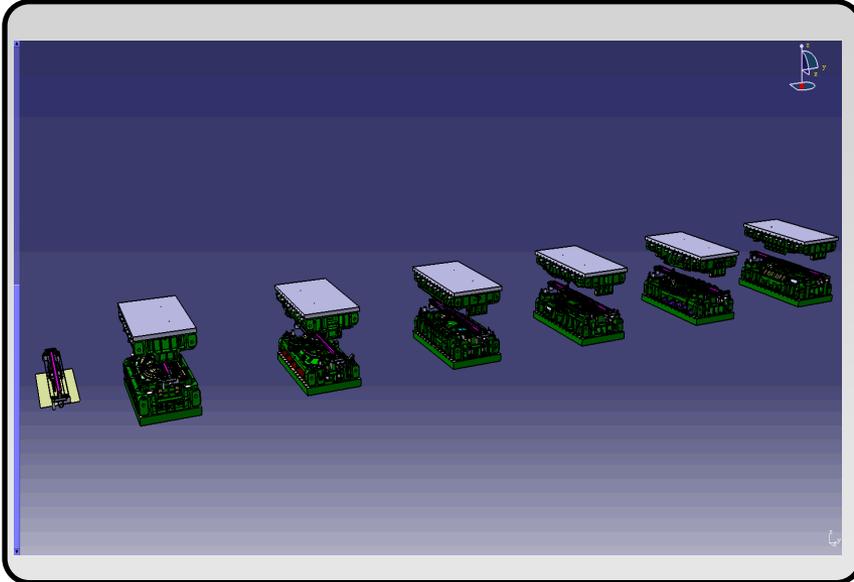


Dies for SKODA AUTO A.S.

- Bodyside panel dies for 3 models
- Front and rear door panel dies for 2 models
- Trunk lid outer panel dies for 2 models



Dies for SKODA AUTO A.S.



Audi/Volkswagen

Fender die production



A6L



A4L



A3



Q3



Superb



Lavida



FAW-VW



SHANGHAI VW



CC



Neu Sagitar



Golf 6



Magotan



Neu Jetta



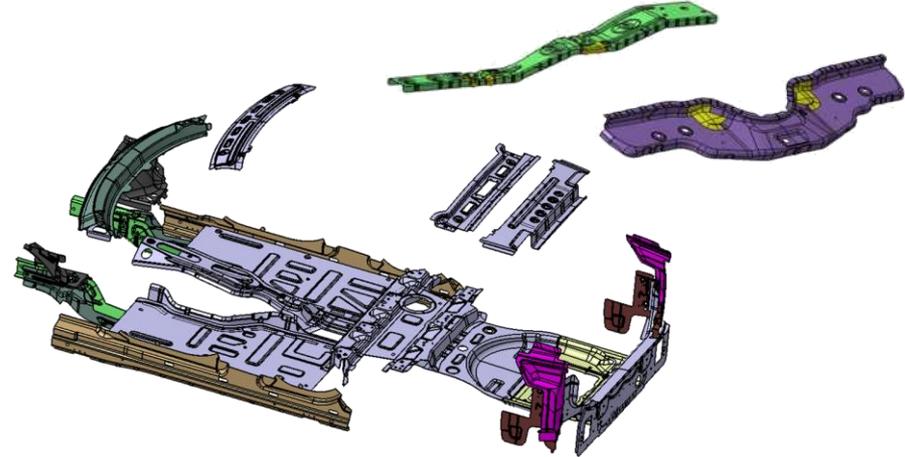
Neu Bora



Golf 7



Aluminium panel dies——Landrover Evoque

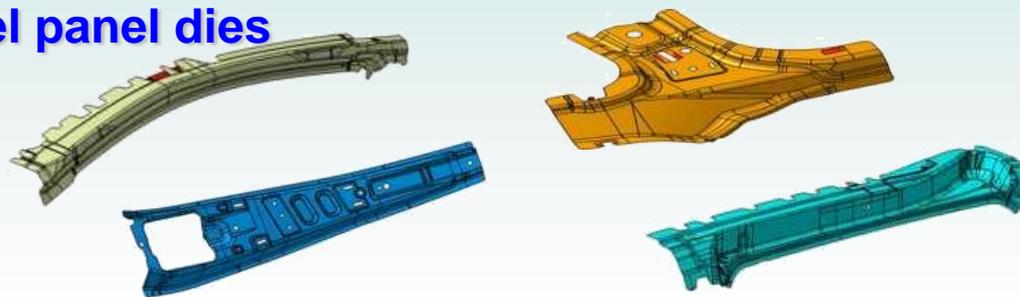


High strength steel panel dies- Transfer dies/Progressive dies

Hong Qi H7—— High strength steel panel dies



MAZDA 8—— High strength steel panel dies



China has been a big country for dies export in the world

Annual export sales of many famous domestic mold enterprises in China have topped 100 millions RMB and more, such as FAWTD, TQM, Yi shen and Yi Feng



FAW Tooling Die



TQM



Yi Shen



Yi Feng



Technology and capability of China automobile mold

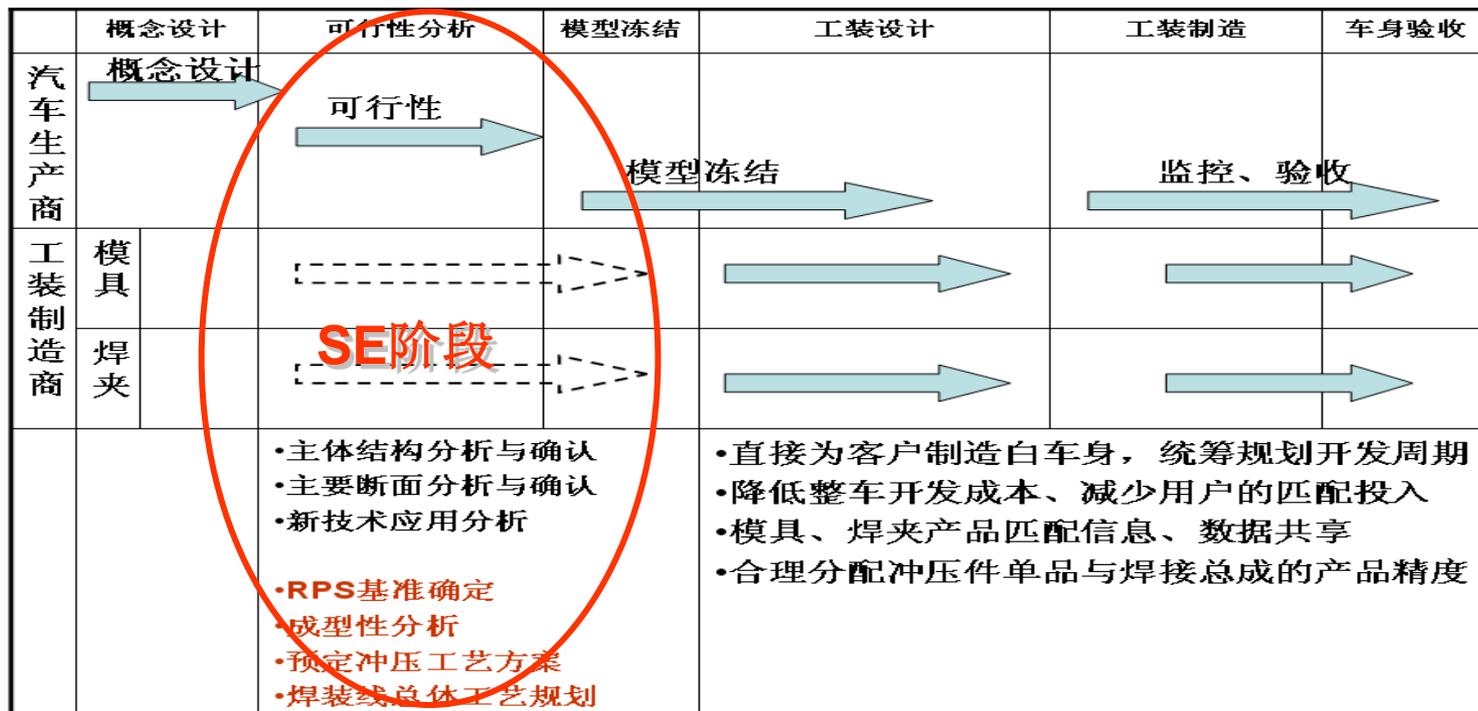


With the time development and the technical progress, the management used in the past which relied on the die maker was taken place by the intensive modern management supported by techniques.

Manufacturing process moved ahead, try out problems are solved in making NC Surface stage even in simulation stage, this method was widely used. Traditional concept of dies was replaced by the concept of high technology die production.



SE (Simultaneous Engineering)



Integration of stamping process technicians and body production technicians, participating in automotive design synchronously and doing production process analysis, process problems could be solved in body design stage. It is very beneficial to control body quality, cost, and cycle comprehensively.