

International Conference and Exhibition on

Automobile Engineering

September 01-02, 2015 Valencia, Spain

Development of stamping technology in automotive and production speed calculations

Kadir Genc

Valeo Automotive Systems Industry, Turkey

Automotive industry has developed rapidly in the last 50 years but before this development; machinery was the most important substructure for this industry. For centuries, people found new resources for living an easy life but to reach them, transportation was the first degree requirement. So they developed engines to do that. After that they make covers and seats to use it for transportation. In the beginning of this, they used hammers to make covers. Humankind liked this easiness and some people had this vehicles. But it is not enough to produce this vehicle for everybody. That is they started to develop machinery and it's called by 'Press'. This system was enough to give shape to the steels and other components by minimum labor but they saw that big parts need strong transportation. So they developed robots to decrease labor for transportation. By the time robot technology was not enough to reach the production speed they want, so transfer press have been developed. In this development safety was more important than the speed thus automotive industry started to use more strong steels for production. But cold stamping press was not enough strong to produce that then they have developed hot stamping technology. This research summaries; technology and automation development in manufacturing, their technical details, softwares and their history, safety improvements in all the time, methods on increasing production speed. That is why some calculations and formulas have been created to improve these values.

Biography

Kadir Genc has completed his Mechanical Engineering from Zonguldak Karaelmas University and is a student of MSc in Automotive Engineering at Bursa Uludag University and a Business Administration student at Eskisehir Anadolu University (Double Major Program). He is currently a Production Supervisor of Valeo, an automotive systems company.

kadir.genc@valeo.com

Notes: