

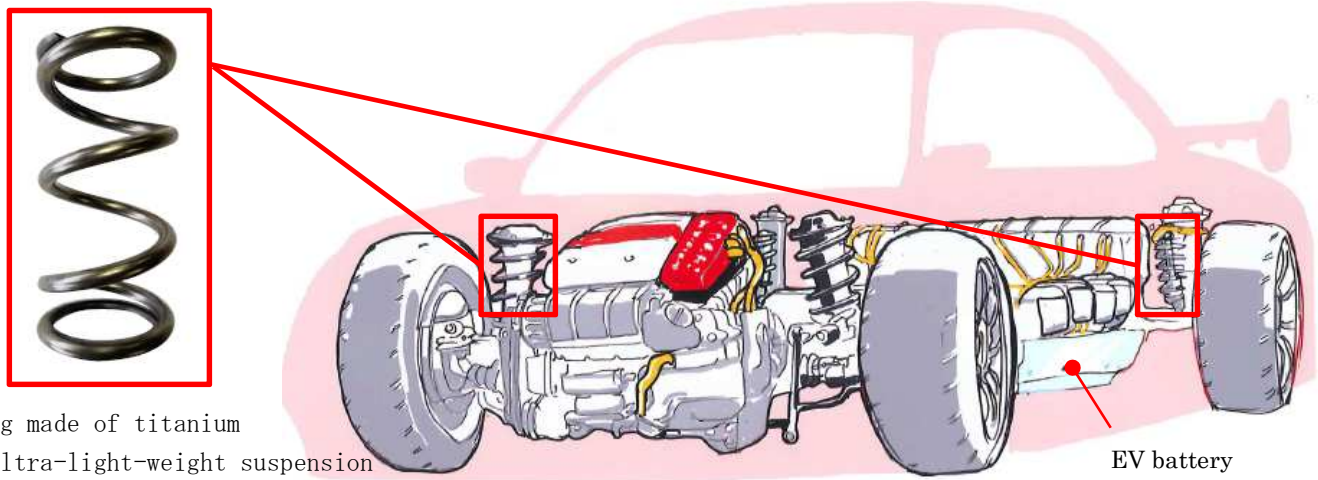
April 7, 2021

Company Name: Chuo Spring Co., Ltd.
Name of representative: Satoshi Takae, Representative President
(Securities code:5992;
1st Section of the Tokyo Stock Exchange)
Inquiries: Fumiki Yazawa, Senior General Manager
(Telephone:+81-(0)52-624-8550)

Major Contribution to Weight Reduction of the **Electric Vehicles** ~Developed springs for ultra-light-weight suspension made of titanium~

Chuo Spring Co., Ltd. (Headquarters: Nagoya City Midori-Ku, President and CEO: Satoshi Takae) is pleased to announce that we have developed a "spring made of titanium for ultra-light-weight suspension."

This product greatly contributes to the extension of cruising range and realization of high vehicle motion performance through ultra-light-weight chassis required for EV vehicles and other **electric vehicles** through weight reduction. Three main features are summarized as follows.



Spring made of titanium
for ultra-light-weight suspension

①Realization of weight reduction

Titanium achieves a high weight reduction of about 40% compared to normal spring steel, while having the same required space and the same rigidity (spring constant). It will also contribute to the realization of lighter weight in the field of motor sports such as sports cars.

②Realization of high resistance to corrosion

It is also expected to contribute to applications in severe atmosphere such as seabed and space. In addition, the "high resistance to corrosion" unique to titanium makes it possible to use surface paint-free for springs, whereas surface paint is essential for normal spring steel.

③Integration of our technologies

Compared with ordinary spring steel, titanium is extremely hard in workability, and it is also a difficult-to-handle material that requires complex and special treatment processes, such as "solution heat treatment" and "aging treatment." Nevertheless, we have succeeded in developing this product by bringing both our unique heat treatment technology and our high-precision cold spring manufacturing technology.

We will continue to take on aggressive challenge to materials that are difficult with conventional technologies, challenge ourselves to the dream of realizing of low-carbon society, and continue to make progress.