



## 02.11.2017 Victor Reinz® Transmission Control Plates for Global Automotive Applications

Long-distance highway trips, joyriding on country roads or stop-and-go in city traffic – for modern car transmissions to function reliably there's a seemingly inconspicuous component which is actually of vital importance: the transmission control plate. Dana Incorporated has optimized the development, application-specific configuration and production of these transmission control plates. The gasket specialist has now become so successful with this product that the production capacities in Neu-Ulm, Germany have expanded to include Wuxi, China and planning for expansion into the USA is underway.

Be it for torque converter automatic transmissions or continuously variable transmissions (CVT): car manufacturers need transmission control plates (separator plates) for flow control and for sealing off the hydraulic control unit at the same time. The problem: solutions previously available on the market tend to leak, impairing the transmission's efficiency. Even tiny particles of dirt can damage adjoining components (such as valves), and thus the entire system. Doesn't it seem obvious that a gasket specialist would put special

---

**Publisher**

Dana Power Technologies  
REINZ-Dichtungs-GmbH  
Reinzstraße 3-7 | 89233 Neu-Ulm  
Phone +49 731 7046-0  
Fax +49 731 719089  
[www.reinz.com](http://www.reinz.com)

**Contact**

Carolin Sailer  
Team Manager  
Communication & Marketing  
Phone +49 731 7046-407  
Fax +49 731 7046-400  
[carolin.sailer@dana.com](mailto:carolin.sailer@dana.com)



effort into the development and construction of transmission control plates? That's just what Dana did. The company has decades of experience in cylinder-head gaskets and is now one of the leading suppliers of metal beaded flat gasket systems.

The starting shot: the establishment of a production facility in Neu-Ulm in 2015

In 2015, US automotive supplier Dana installed a new production plant in Neu-Ulm. It specializes in the production of transmission control plates and meets the strictest cleanroom requirements. The entire production and assembly is fully automated. Even quality control is handled by a camera system, so that trained employees in special clothing only come into contact with the finished and packaged product during preparation for shipping. The machines and lines are specifically designed for movements in the micrometer range. "The presses punch the transmission control plates with maximum precision. Cutting-edge production lines then handle partial coating along the complex seal contours with a special elastomer developed in-house," explains Robert Blerch, Senior Manager for Products in Transition at Dana. "The result is a reliable seal which can withstand even aggressive transmission oils. With this degree of leak-tightness, the transmission control plate increases the efficiency of the entire transmission and makes a major contribution to modern drive concepts with reduced consumption

---

**Publisher**

Dana Power Technologies  
REINZ-Dichtungs-GmbH  
Reinzstraße 3-7 | 89233 Neu-Ulm  
Phone +49 731 7046-0  
Fax +49 731 719089  
[www.reinz.com](http://www.reinz.com)

**Contact**

Carolin Sailer  
Team Manager  
Communication & Marketing  
Phone +49 731 7046-407  
Fax +49 731 7046-400  
[carolin.sailer@dana.com](mailto:carolin.sailer@dana.com)



values and CO<sub>2</sub> emissions.”

Further developments: Production facilities in China and the USA

It wasn't long before market demand exceeded the initial plant capacity of the production facility in Neu-Ulm. Volkswagen, for instance, now uses the new transmission control plates on a large scale for its DL 382 7-gear dual clutch transmission in models from AUDI. Other original-equipment manufacturers are also requesting large quantities. “For that reason, we expanded production based on the Neu-Ulm model to a Dana plant in Wuxi – a city not far from Shanghai in the Jiangsu province,” explains Robert Blerch. This puts global production volumes in the range of several million transmission control plates per year. And that will continue to rise. “Against the background of rapid and sustained growth in Europe and China, we are also thinking about serial production in North America. 95 percent of the automobiles there run with automatic transmissions. We would also integrate production into Dana's existing production facilities.”

A brief description of transmission control plates

Modern automatic transmissions have to enable more and more

---

**Publisher**

Dana Power Technologies  
REINZ-Dichtungs-GmbH  
Reinzstraße 3-7 | 89233 Neu-Ulm  
Phone +49 731 7046-0  
Fax +49 731 719089  
[www.reinz.com](http://www.reinz.com)

**Contact**

Carolin Sailer  
Team Manager  
Communication & Marketing  
Phone +49 731 7046-407  
Fax +49 731 7046-400  
[carolin.sailer@dana.com](mailto:carolin.sailer@dana.com)



shifting operations in shorter and shorter reaction times. This poses a big challenge for the transmission's hydraulic system. At its core is a hydraulic shifter and an electronic transmission control unit comprised in a single mechatronics module. While the control unit continuously calculates the most efficient gear during the trip, the hydraulic shifter takes care of implementing it. And where is the transmission control plate located? Directly in the hydraulic module. It controls the flow of transmission oil through the flow channels to control the automatic transmission. At the same time, it seals off the entire system inside and out.

Contents from site: <https://www.reinz.com/EN/NEWS/Press-News.aspx?conseq=2205>

---

**Publisher**

Dana Power Technologies  
REINZ-Dichtungs-GmbH  
Reinzstraße 3-7 | 89233 Neu-Ulm  
Phone +49 731 7046-0  
Fax +49 731 719089  
[www.reinz.com](http://www.reinz.com)

**Contact**

Carolin Sailer  
Team Manager  
Communication & Marketing  
Phone +49 731 7046-407  
Fax +49 731 7046-400  
[carolin.sailer@dana.com](mailto:carolin.sailer@dana.com)