



Our specialty: Electric igniters for automotive safety technology

EMS
EMS-PATVAG

Our products

Ignitors for airbag and belt pretensioners

Safety is one of the most significant criteria in the development and manufacture of today's vehicles. Drivers and passengers in modern automobiles enjoy a high level of safety. This revolution in safety levels is due to the use of airbags and seatbelt pretensioners, which together combine to create a highly effective protective system. The decisive fact, however, is that they are guaranteed to function correctly within milliseconds – and this is the strength of airbag ignitors made by EMS-PATVAG.

The success of our company is closely related to more stringent safety standards demanded by the automotive market and the corresponding increase in the number of airbag applications. Since its foundation, EMS-PATVAG has been involved with safety technology and the daily manufacture of high-performance and

reliable ignitors, and is world leader with regard to innovation and quality. This long and specialised experience provided the inspiration for development of our airbag ignitors, which have been manufactured by EMS-PATVAG since 1993 for reliable use in all types of vehicle. Based on our own research and development department with specialised pyrotechnic knowledge, many

years of manufacturing expertise and close cooperation with customers in the supply chain, we are able to offer them tailor-made solutions. This has made EMS-PATVAG not only a trustworthy partner, but also one of the most important suppliers of pyrotechnic ignitors. Airbag ignitors from EMS-PATVAG are used throughout the world in almost every kind of vehicle – and with good reason: quality, reliability and speed of response are absolutely essential for the automotive industry.

Before a high-quality airbag ignitor finds its way into a vehicle, it already has a long history. After specifications are defined in cooperation with all companies involved in creating the airbag system, our research and development department is given the task of developing the ignitor to fulfil all customer requirements.

In order to manufacture products to satisfy the highest demands with regard to quality, response behaviour, resistance and endurance, EMS-PATVAG has a highly specialised and innovative quality management system. Experienced experts, state-of-the-art production facilities, a certified quality assurance system according to ISO/TS 16949, CE certification and strict in-house regulations guarantee that the most stringent requirements are met.



Customer applications

Ignitor applications

Our customers install EMS-PATVAG ignitors in gas generators. In conjunction with a sensor, the ignitor triggers the airbag system which provides efficient passenger protection in the event of an accident.

Our high-quality airbag ignitors prove their functionality and reliability in daily practical use throughout the world. These ignitors are also increasingly used for belt pretensioners or other innovative restraint systems – further evidence of our innovative strength and the quality of our products.

In this way, EMS-PATVAG products are used in all gas generator applications independent of type or requirements:

- driver and passenger airbags
- side airbags
- thorax airbags
- head airbags
- belt pretensioning systems
- special applications

Ignitors manufactured by EMS-PATVAG are naturally suitable for use in the whole spectrum of gas generators such as:

- single-stage gas generators
- twin gas generators
- multi-stage gas generators
- cold gas generators
- hybrid-gas generators





About us

EMS-PATVAG has been a member of the EMS Group since the foundation of the company in 1963. Since 2008, the headquarters of EMS-PATVAG have been located at Brankovice, 60 km to the east of Brno in the Czech Republic.

With the advance of safety technology in the automotive industry, EMS-PATVAG has manufactured high-quality and reliable airbag igniters and passenger restraint systems since 1993. To date, more than 500 million parts have been supplied to the corresponding gas-generator and actuator manufacturers. This makes EMS-

PATVAG one of the leading developers and manufacturers of these products worldwide.

Our strengths lie in our consistently high-quality products, a reliably high degree of supply availability and our unique innovation capacity.

We work in very close, partnerlike cooperation with our customers in order to provide them with individual solutions. This is also mirrored in our company culture: Our highly motivated employees are proud of our products and identify with the complex problems facing their customers.

Outlook for the future

Safety standards and other requirements of the automotive industry are increasing steadily for all categories of vehicle. In this way, demand for top-quality igniters is correspondingly high. With its high-quality products and services, EMS-PATVAG intends to increase and consolidate market share. In accordance with this positive outlook for the future, research, development and production are being continually expanded.



Visit our homepage at: www.emspatvag.com

Czech Republic

EMS-PATVAG s.r.o.
Brankovice č.p. 350
683 33 Brankovice
Czech Republic
Tel. +420 517 302 200
Fax +420 517 302 222

EMS-PATVAG,
a Business Unit of the EMS Group



HIGH PERFORMANCE POLYMERS
SPECIALTY CHEMICALS