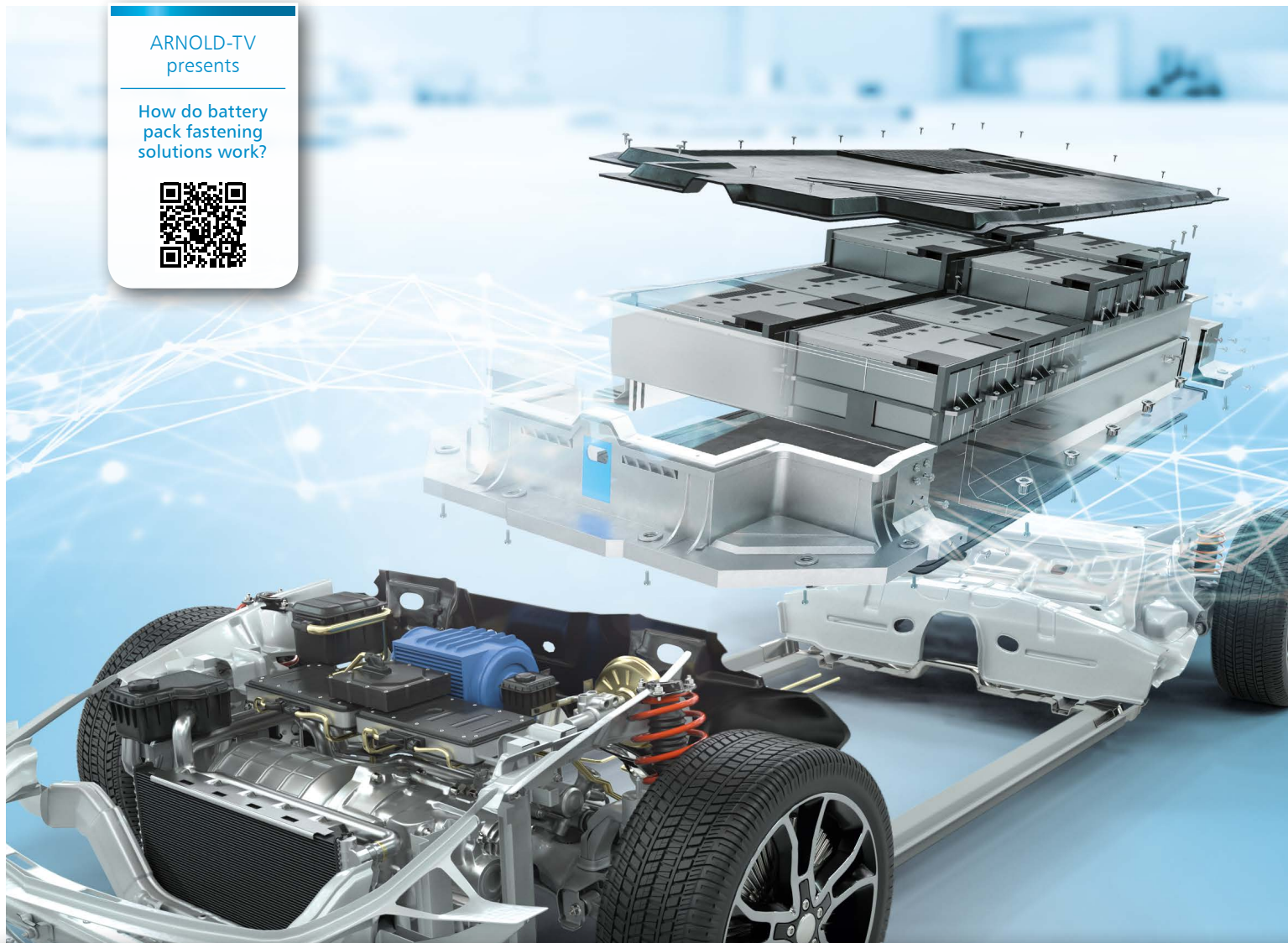


ARNOLD-TV  
presents

How do battery  
pack fastening  
solutions work?

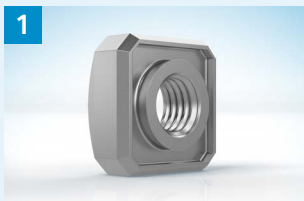


# Fastening eMobility

Innovative fastening solutions for battery packs

- + join without pre-punching
- + meet strict strength requirements
- + wide range of mechanical joining procedures
- + comprehensive services

➔ [www.arnold-fastening.com](http://www.arnold-fastening.com)



#### PIAS® / RIVTEX®

Using PIAS® (square-cut) and RIVTEX® (round) self-clinching nuts you can create a non-detachable sheet metal fastening at optimum cost; suitable for steel and aluminium.

**Field of application:** Battery frame



#### STRUX® / RIVTEX®

Using STRUX® and RIVTEX® press-fit screws you can create a non-detachable sheet metal fastening at optimum cost; suitable for steel and aluminium.

**Field of application:** Battery frame



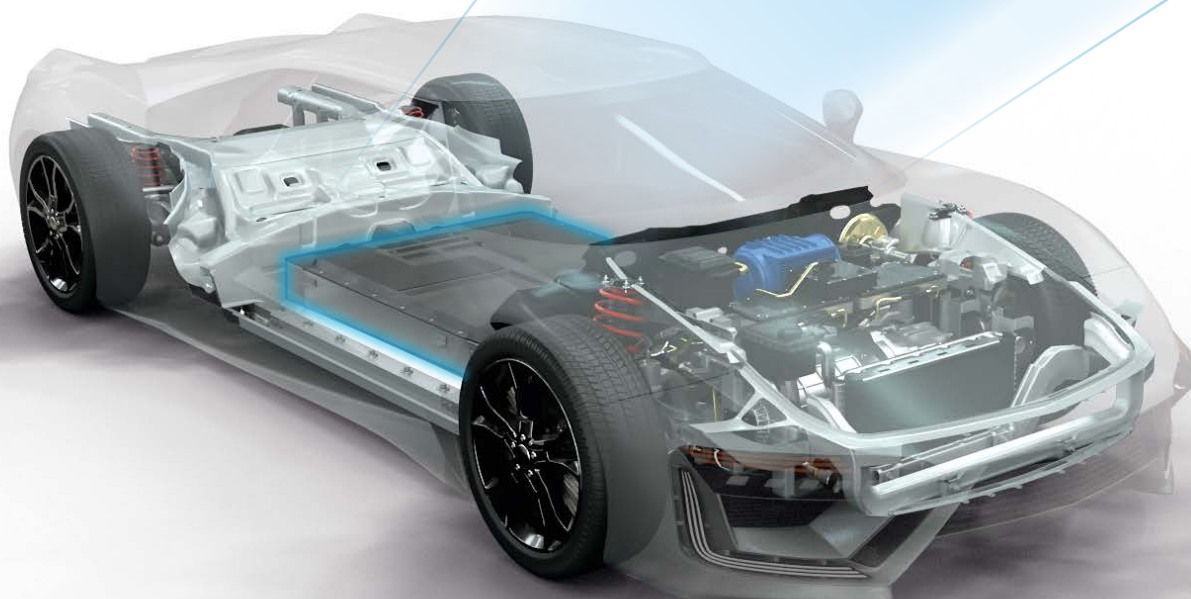
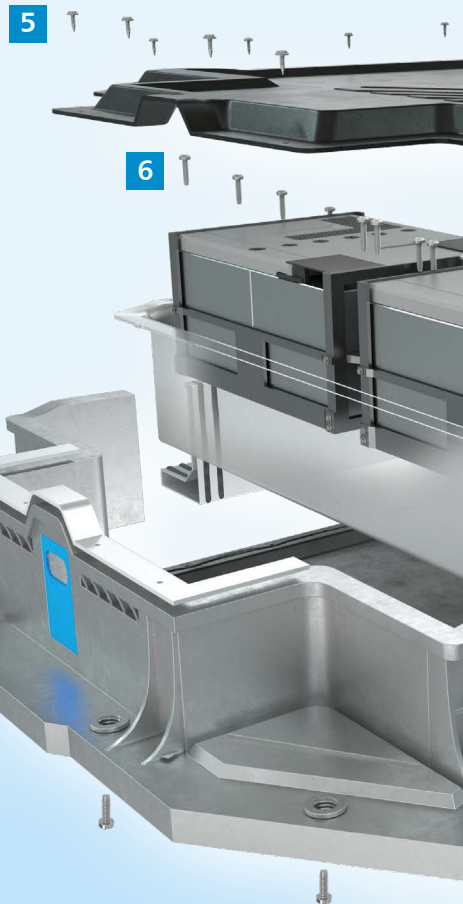
#### Assembly

Our Assembly Service helps customers by developing and producing ready-to-assemble fastening modules. For example, we can supply brackets with integral functional elements such as PIAS® or RIVTEX® nuts, and STRUX® or RIVTEX® bolts.

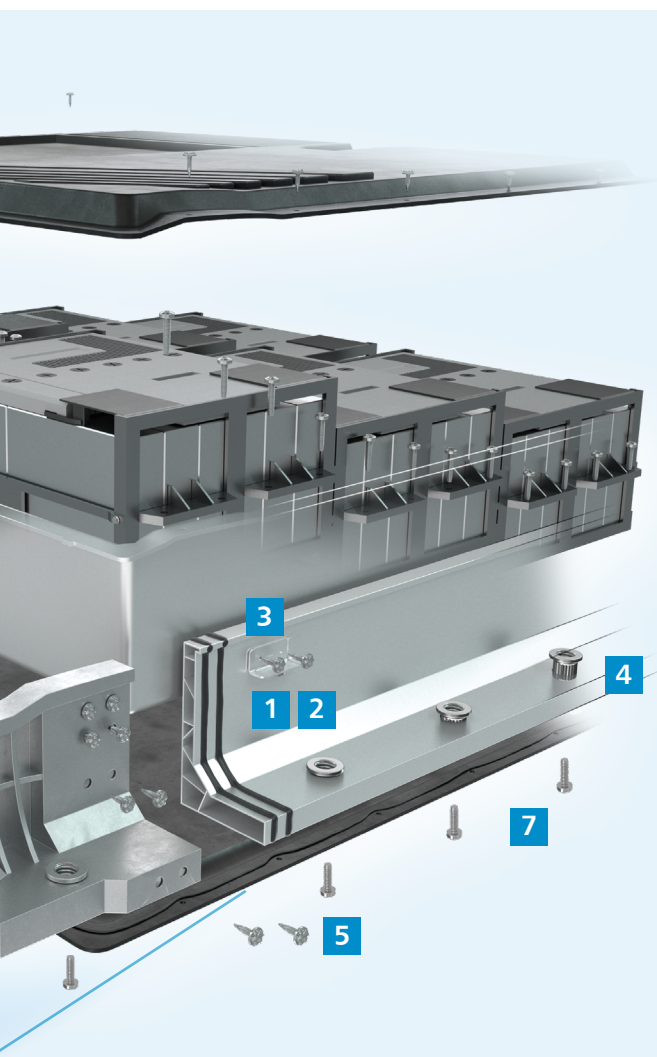
**Field of application:** Battery frame

ARNOLD-TV  
presents

How do battery  
pack fastening  
solutions work?







#### Eco-Sert<sup>®</sup>

Eco-Sert<sup>®</sup> is the name for aluminium inserts that in practice are mainly used for joining plastics.

#### Field of application:

Crash frame flange



#### Flowform<sup>®</sup>

Innovative fastening for sheet metal with no pre-punching using flow-hole forming screws.

#### Field of application:

Frame structure, underbody protection, battery cover



#### Powertite<sup>®</sup>

Innovative thread-rolling screw that generates high pull-out forces even at low penetration depths.

#### Field of application:

Battery modules



#### Customized metric screws

Metric thread fasteners customised to customers' requirements.

#### Field of application:

Vehicle chassis

## Fastening eMobility: Innovative fastening solutions for battery packs

Electrification in the automotive industry places many new challenges on manufacturers and their suppliers. So ARNOLD offers some innovative joining concepts – for example for battery assembly. ARNOLD's range of expertise ensures a smooth implementation process.



Engineering



Services



Production



System technology



Fasteners



Functional parts



# The ARNOLD GROUP

Wherever customers need us.

## The ARNOLD GROUP

ARNOLD – this name is internationally renowned for efficient and sustainable fastening systems on the highest level. With a foundation of many years of expertise in the production of intelligent fastening systems and very complex extruded parts, the ARNOLD GROUP has developed over a number of years into a comprehensive supplier and development partner for complex fastening systems. With our positioning of “BlueFastening Systems” this development process will continue under a united and harmonized structure. Engineering, fasteners, and functional parts, together with feeding and processing systems, all from a single source – efficient, sustainable and international.



**ARNOLD  
FASTENING SYSTEMS**

Rochester Hills  
USA



**ARNOLD UMFORMTECHNIK**

Ernsbach  
Germany



**ARNOLD UMFORMTECHNIK**

Dörzbach  
Germany



**ARNOLD  
FASTENERS SHENYANG**

Shenyang  
China

**ARNOLD FASTENING  
SYSTEMS Inc.**

1873 Rochester Industrial Ct.,  
Rochester Hills, MI 48309-3336, USA  
T +1 248 997-2000  
F +1 248 475-9470

**ARNOLD UMFORMTECHNIK  
GmbH & Co. KG**

Carl-Arnold-Straße 25  
D-74670 Forchtenberg-Ernsbach  
T +49 7947 821-0  
F +49 7947 821-111

**ARNOLD UMFORMTECHNIK  
GmbH & Co. KG**

Max-Planck-Straße 19  
D-74677 Dörzbach  
T +49 7947 821-0  
F +49 7947 821-111

**ARNOLD FASTENERS  
(SHENYANG) Co., Ltd.**

No. 119-2 Jianshe Road  
CN-110122 Shenyang  
T +86 24887 90633  
F +86 24887 90999