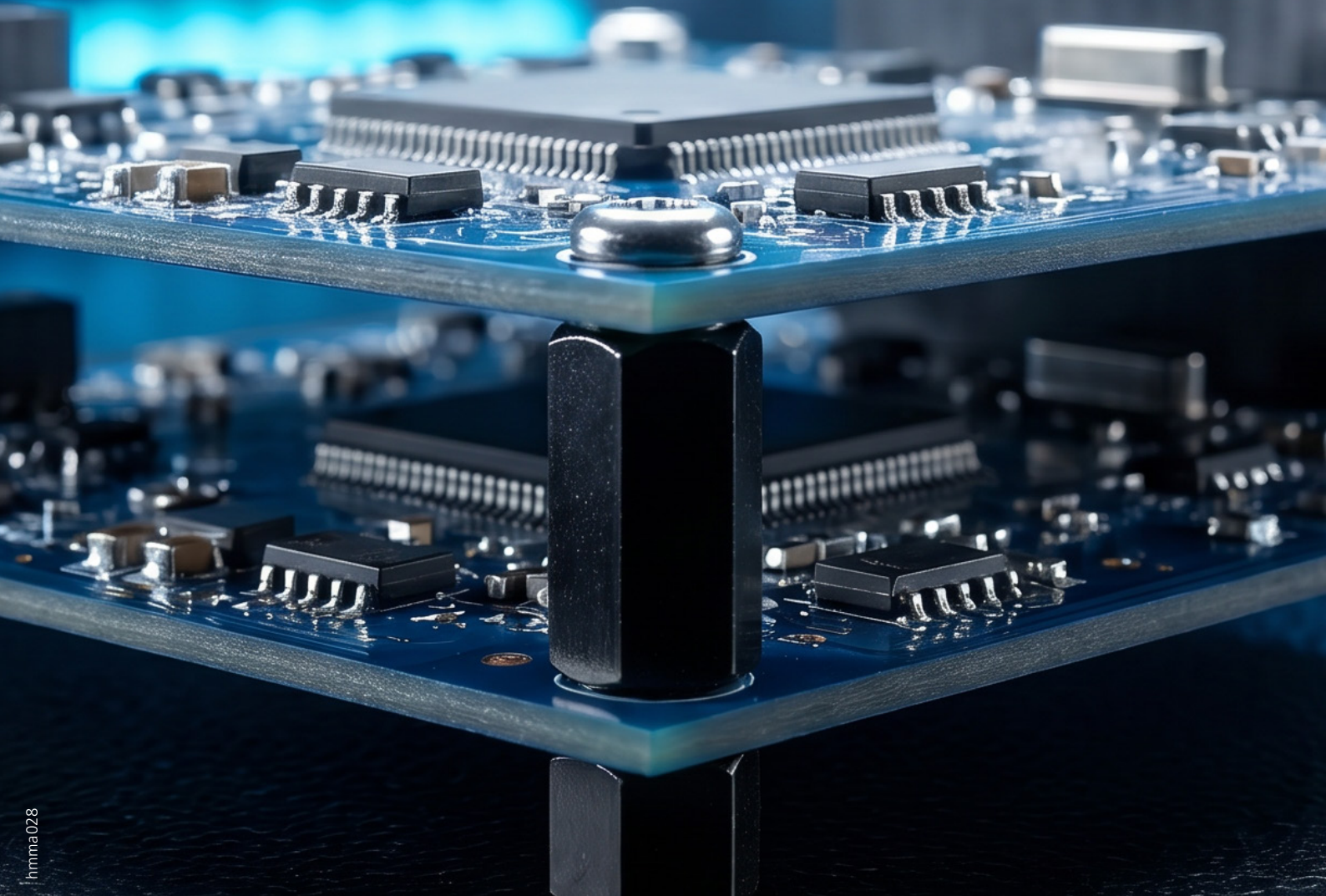




Vogt AG Verbindungstechnik  
creating connections



hmma028

**SPACER ROLLERS  
SPACER BOLT  
SPACER  
INSULATING BUSHES**



**Reliable and durable  
Electrically insulating  
Easy to install**

[www.vogt.ch](http://www.vogt.ch)



## DISCOVER NOW

Discover our full range of spacers and retaining elements – also available in other materials.



### Spacer rollers

#### Simple. Cost-effective. Precise.

Define precise clearances between components, effortlessly and without the need for tools. The most cost-effective solution for stable, low-vibration clearances in assemblies.

- Spacers for printed circuit boards (PCBs)
- Spacing in control cabinets
- Air and cooling gaps in enclosures



### Spacer bolts with internal/external threads (round)

#### Connect and expand in a single step.

The combination of internal and external threads allows for the efficient stacking and expansion of assemblies, making it ideal for modular designs in electronics.

- Multi-layer PCB assembly
- Modular control systems
- Electronic modules in enclosures



### Spacer bolt w. internal/external thread (hexagonal)

#### Designed for the right tools. Securely fastened.

The hexagonal shape allows for high tightening torques using standard tools. Ideal for systems requiring service access and repeated assembly.

- Industrial control systems
- Machine control systems / Control cabinets
- Electronic enclosures and control units



### Spacer bolts, internal/internal thread (round)

#### Neat. Compact. Screwed on both sides.

Combines two screw connections into a compact unit, creating neat assemblies without protruding threaded ends.

- Mounting of printed circuit boards in the housing
- Covers and brackets in equipment manufacturing
- Instrumentation and Measurement Technology



### Spacer bolt, internal/internal thread (hexagonal)

#### Easy to assemble, right down to the last screw.

Hexagonal design for quick access with an open-ended spanner. Noticeably more efficient for servicing, retrofitting and production assembly.

- Control panel construction
- Electronics enclosure
- PCB and module mounting
- Easy-to-maintain assemblies



### Spacer bolt with external thread & snap-in

#### Click it into place. Done. Move on.

Tool-free quick assembly via a clip mechanism for maximum efficiency in mass production. Once pressed in, it stays securely in place.

- Snap-in systems in the series
- Thin-walled sheet metal structures
- Quick assembly of sub-assemblies



### Spacer bolts with internal thread & snap-in

#### Secure and screw in place, all in one go.

Position the snap fastener and secure it with a screw. This combination eliminates one step and makes additional nuts unnecessary.

- PCB assembly without nuts
- Enclosure with snap-in interface
- Control cabinet components



### Insulating bushes

#### No short circuits. No compromises.

Provides reliable protection for electrical connections against leakage and mechanical damage. Essential wherever metal screws and conductor tracks meet.

- Insulation for screw connections on PCBs
- Control panel and electronics manufacturing
- Feed-throughs through insulating materials

