

EJOT takes the "Play out of the Game"

Screws have been around for a very long time, with their origins tracing back to ancient times. Along with this comes a latent fear among users that the screw connection could loosen under difficult conditions. Since hardly any industrially manufactured component can do without screw connections, this diffuse unease among design engineers and component developers is still very relevant today.

To prevent an unwanted loosening of the connection, additional aids are often used with metric screws. These are particularly used where the user is concerned that the initial clamp load might reduce over time and temperature changes due to vibrations or relaxation. For example, self-locking nuts create the desired self-locking effect through a plastic element that deforms when the screw is fastened in.

Alternatively, adhesive locks can be used to achieve thread locking. This involves a micro-encapsulated adhesive applied to the screw thread, which is only activated during assembly. Adhesive locks are intended for single use and cannot be reused. With a polyamide patch coating, a polyamide plastic is applied to a part of the thread, which creates a clamping effect when fastened in. Unlike adhesive locks, the connection can be loosened and reused multiple times.

All these aids have one thing in common: a high effort must be made to create play in the connection, e.g. with a metrically cut internal thread, an overmolded thread insert or a nut element. Subsequently, with considerable, also financial effort, the play is removed from the connection again. That it can be done more simply shows the fastening technology specialist EJOT. Its special screws are fastened directly into the respective material and thus create their own female thread. From the beginning, they take the "play out of the game" i.e., their self-tapping characteristic realizes complete play-free connections – without additional aids. They withstand even the most adverse conditions permanently, as they occur, for example, in chainsaws or lawnmowers.

EJOT's self-tapping screws are available for a wide variety of materials such as (light) metals and plastics. The EVO PT® realizes reliable and durable connections in thermoplastic materials with high initial clamp loads, while simultaneously compensating clamp load losses under the highest stress levels thanks to the play-free connection. This is made possible by its special, highly efficient thread layout. The EVO PT® screw compensates extreme shocks and vibrations so effectively because its thread is engaged over the entire installation depth, whereas with a self-locking nut the desired clamping effect can only be realized over a length of approx. 2 mm. This ensures that chainsaws, lawnmowers and leaf blowers remain permanently ready for use and safe with the EVO PT®.

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EJOT®

Discover the EJOT EVO PT® screw now:

K 2025

Düsseldorf, 8 to 15 October 2025

Hall 5, stand C03



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Legend I:

EJOT – secure screw connections even under extreme conditions

EJOT®

Legend II:

EJOT. Bringing it together.

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