

VÖLKEL

THREADING SOLUTIONS ■ ■ ■

From deep mud holes in Poland to the small ball pump needle before kick-off at the FIFA World Cup: This V-News deliberately moves between big challenges and small details. That is exactly where things get interesting. Whether in the rally camp, on the football pitch or at the workbench, it is often not the obvious part that matters most, but the component in the background that simply has to work.

In this issue, we show how motorsport becomes a real field test, why an inconspicuous thread on a ball pump needle deserves a closer look and what TiN coatings can do for twist drills.

Rallye Breslau 2026: Between Mud, Screws and Service



Rallye Breslau is one of the toughest off-road rallies in Europe. For Team VÖLKEL, Poland meant mud, water, sand, forest tracks and steep climbs. This is exactly where material, team and tools have to prove what they can really do.

Away from the track, a large part of the story took place in the camp. That is where vehicles were repaired, prepared and kept ready for the next challenge. Not under ideal workshop conditions, but with dust, time pressure and the next stage approaching fast.

For VÖLKEL, the rally was therefore more than motorsport. It was a real field test. In everyday rally conditions, threading tools are not taken out for a clean product demo. They are on the table when mud, time pressure and a damaged thread come together and the vehicle still has to get back onto the track.

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Ball Pump Threads: Small Detail, Big Impact



With the current FIFA World Cup in mind, it is worth taking a closer look at a component that almost no one pays attention to: the ball pump needle.

For a football to have the right pressure before the match, the connection between needle, pump and adapter also has to fit. That is exactly where a small thread sits, and it is often underestimated.

A ball pump needle usually has a valve thread with the dimension VG 5.2 x 24. Important: this is not automatically M5. While M5 usually has a nominal diameter of 5.0 mm and a pitch of 0.8 mm, VG 5.2 x 24 has a diameter of around 5.2 mm and 24 threads per inch.

This example shows very clearly why accurate thread identification matters. Guessing can quickly lead to damaged threads, poor fit or leaking connections.

Measuring, checking and using the right tool creates a connection that works reliably.

👉 [Learn more](#)

TiN Coating for Twist Drills: More Tool Life, Less Wear



For twist drills, the coating can make a decisive difference. It protects the tool against wear, heat and friction and can significantly increase tool life.

A coating is a very thin, firmly bonded layer in the micrometre range that is applied to the tool. On drills, it helps make higher cutting data possible and keeps the tool performing for longer.

One of the best-known coatings is TiN, or titanium nitride. It is easy to recognise by its golden-yellow appearance and is considered a proven universal coating. TiN increases the surface hardness of the drill to around 2,300 HV, is heat-resistant up to approx. 600 °C and offers good chemical resistance.

TiN is particularly suitable for universal use in steel, cast iron, brass and plastics. For aluminium, however, TiN is not the right choice, as it can cause built-up edge formation.

Do you have questions about LÖHER twist drills or want to know which version is right for your application?

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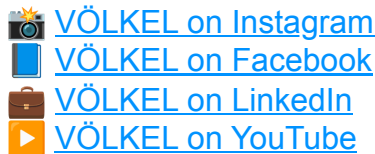
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From the rally track to the workbench, we regularly share new insights, applications and product information.

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See you next time
Your VÖLKEl Team

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