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Automatisch generierte Beschreibung

**Date:** 1.1.2025

**The Impaktor system for extreme demands – made by Wera**

Impact screwdriver machines have established themselves in industry, trade and among ambitious DIY enthusiasts when it comes to professional screw-driving. They are versatile and enable faster and easier work because the screw is tightened by permanent radial impacts in the direction of rotation. This makes it easier to turn than with a permanent torque.

However, these machines place considerable demands on the accessories required. Due to their high output power and permanently occurring torque peaks, the physical limits of many bits and bit holders are exceeded. This leads to above-average wear. This is where the advantages of the Wera Impaktor system come into play, with a lifetime that is up to ten times longer than that of standard or torsion bits, depending on the screw drive.

The basis for this is already created during production through the best pos-sible utilization of material properties, individual hardening technology and optimally adapted geometries of the screwdriving tools. The Impaktor bits are precisely matched to the respective output and therefore the individual screwdriving application and are equipped with a torsion tooth. In combina-tion with the Impaktor bit holder, which has two additional torsion zones, the “TriTorsion” system is created. Depending on the strength of the applied torque peak, two or three of the differently dimensioned torsion zones react automatically, thereby achieving optimum adaptation to the screw joint.

In addition, the special design of the holder doubles the free angle for cush-ioning the torque peaks compared to the Wera “BiTorsion” holder. As a re-sult, this screwdriving tool system can absorb even more kinetic energy and dissipate it from the bit tip, so that a long service life can be achieved even under extreme conditions.

Normally, impact screwdrivers require a high contact pressure to prevent the tool from slipping out of the screw. With diamond particles, which are ap-plied to the tip of the “ Impaktor” bits, the so-called cam-out forces, which lead to slipping out of the screw, are significantly reduced. This is because the diamond particles literally “bite” into the screw, reducing the necessary contact pressure and thus delaying user fatigue during prolonged mechani-cal screwing.

The “ Impaktor” holder is also precisely adapted to the requirements of pow-erful impact screwdrivers. For this reason, the use of overly sensitive mate-rials was deliberately avoided in its design in order to achieve a long service life for the holder. For manual machine tightening, the holder is equipped with a ring magnet that holds even long and heavy screws securely in place. The “Impaktor” stainless steel holder with snap ring and magnet is available for industrial screw assemblies, for example with screwdriving robots.

The “Impaktor” bits and the holder can also be used individually. However, the best results are achieved when the two tools are used in combination.

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