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Hand-held power tools — Impulse wrenches — Dimensions and tolerances of interface to power socket

Machines portatives — Clés à impulsion — Dimensions et tolérances de l'interface pour douille-machine



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Foreword

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An ISO/PAS or ISO/TS is reviewed after three years in order to decide whether it will be confirmed for a further three years, revised to become an International Standard, or withdrawn. If the ISO/PAS or ISO/TS is confirmed, it is reviewed again after a further three years, at which time it must either be transformed into an International Standard or be withdrawn.

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Introduction

When power sockets for hand-held pulse wrenches are centred on the cylindrical surface of the spindle, several advantages are achieved.

Through this centred engagement

- vibrations and wobbling are reduced, in turn reducing the risk for injury and improving operator ergonomics,
- torque accuracy is increased, improving the quality of the production, and
- energy loss is reduced, saving energy.

The variety of dimensions on the spindle diameter has created a need for standardization of the interface between these pulse tools and power sockets. Because of the existence of differently designed impulse wrenches, the need for two options, A and B, for the series of values for the spindle and the internal socket diameters, has also been perceived.

This document has been published as a technical specification (see Foreword) in order to discourage the development of yet more designs, and enable the usage of each of the two series to be monitored, with the eventual aim of standardizing one of them.