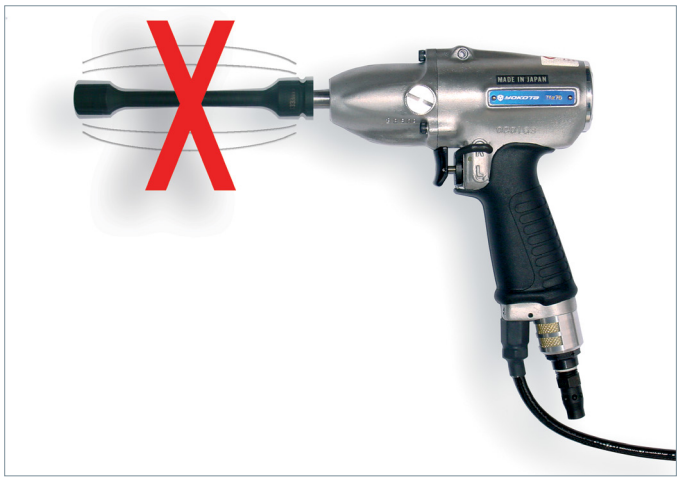
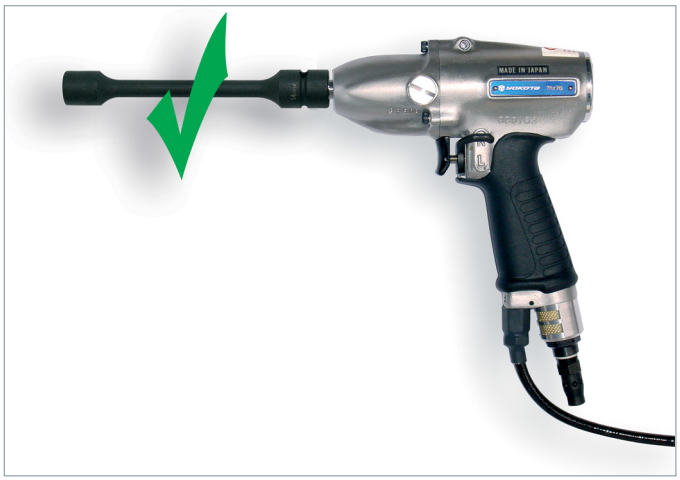
Power Sockets with Sleeve Drive – for impulse tools





Sleeve Drive Power Sockets

Optimum performance and safety when working with hand-held impulse wrenches can only be achieved with particularly suitable power sockets and extensions.

At the request of the renowned Japanese impulse tool manufacturer Yokota, the Action® power sockets with sleeve drive were developed to further improve the quality of the bolted connection with impulse wrenches.

Action® power sockets with spindle guide offer excellent power transmission because they do not sit solely on the square drive of the impulse tool shaft, but are also guided by the round shaft of the drive spindle. This means that these special power sockets have minimal play between the socket and the drive spindle of the impulse tool. Last but not least, the „sleeve drive“ avoids the transmission of vibrations to user and machine.

Effect: The recessed fit reduces „wobbling“, the tightening torques become even more accurate, wear occurs much later, the noise level and vibration are reduced, and the health of the workers is protected.

Key advantages

- ✔ Improved power transmission due to lower torque losses
- ✔ Less wear on plug-in tool and impulse wrench
- ✔ Reduced vibration
- ✔ Reduced noise level
- ✔ Prevention of repetitive strain injury (RSI), carpal tunnel syndrome (CTS), etc.

An O-ring inserted in the drive end of the spindle-guided Action® power sockets optimises the tight fit on the impulse tool shaft and thus ensures the immediate transmission of the specified torque without significant loss of force. In addition, the service life is further increased.

INFO

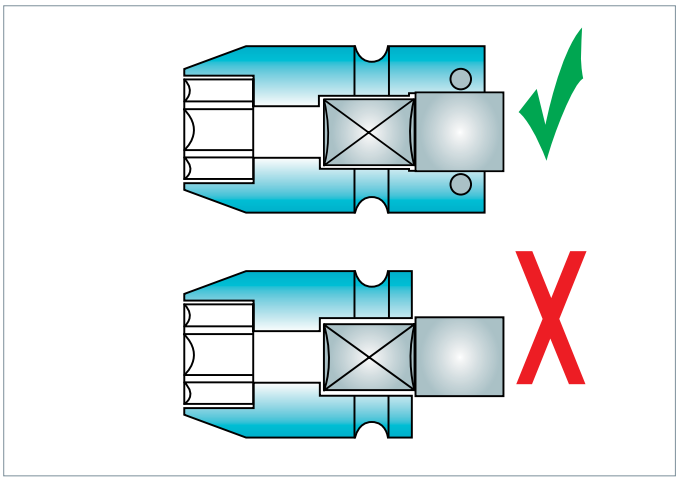
Application advise

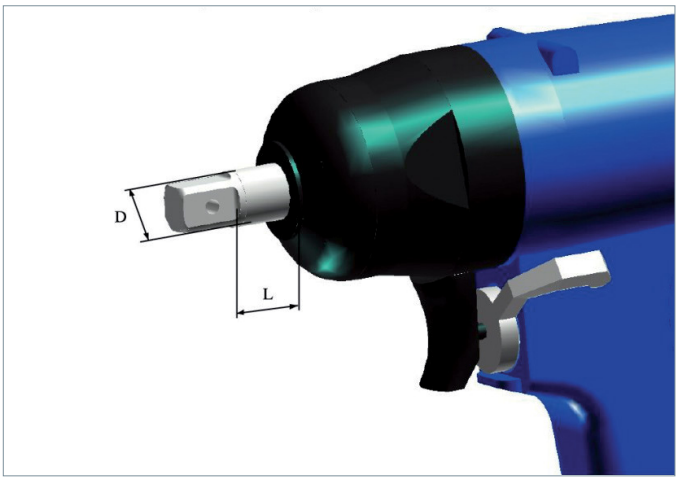
Worn sockets cause a loss of power and also wear out the square drive of the tool. This also causes increasing vibrations, which makes working more difficult.

Worn power sockets should therefore be replaced at an early stage.

Further information available 24 / 7 on our website.

Power Sockets with Sleeve Drive – for impulse tools





All Action® power sockets are manufactured according to DIN 3121 and DIN 3129. Action® power sockets with sleeve drive are compatible with all impulse tools from the Japanese manufacturers Yokota and Uryu, as well as other brands with identical shaft geometry.

Action® power sockets with sleeve drive can be fitted to impulse wrenches with drive shafts of the following lengths and diameters:

Square Drive inch	D mm	L mm
3/8	12	≥ 10
1/2	16	≥ 10
3/4	25	≥ 11.8

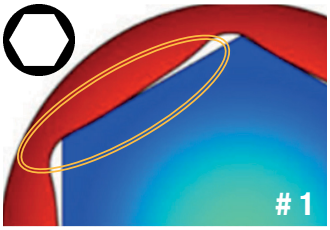
Avoid „surface drive“ sockets with impulse tools

INFO

We strongly advise against using „surface drive“ sockets on impulse tools (whether standard, shut-off, cordless and EC).

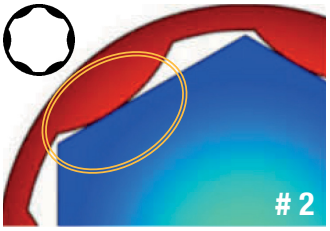
Instead, we recommend using only power sockets with a standard hexagon and, if possible, also with a spindle guide („sleeve drive“).

- *The play of the „Surface Drive“ hexagon (Fig. 2 right) on the bolt head or nut can affect the torque accuracy.*
- *About twice the number of pulses is needed to reach the target torque, as the force flow between the „surface drive“ and the bolt head or nut is considerably smaller than with a standard hexagon (Fig. 1).*
- *The „Surface Drive“ causes higher vibrations.*
- *The „Surface Drive“ causes higher noise levels.*
- *The „Surface Drive“ causes faster wear of the sockets.*



Standard Hexagon:

Small radius in the corner so that the socket engages the flat side of the screw head and not the corner. Larger contact surface ensures improved power transmission.



Hexagon with ‚Surface Drive‘:

Large radius in the corner to facilitate engagement with screw spindles.

With continuously rotating drives, the additional play has no influence on the torque accuracy. With impulse wrenches, on the other hand, this additional play is very disadvantageous, as there is then a kickback with each impulse instead of continuous contact with the socket.

*Surface drive‘ sockets should therefore **not** be used for impulse wrenches.*

Further information available 24 / 7 on our website.