

# Polyaxial Screw

A [polyaxial screw](#) is used for connecting vertebrae to [rods](#) in [spinal surgery](#). It is essentially a [screw](#) whose spherical head is enclosed on housing, which allows the screw a range of motion along several different axes relative to the housing. The ball joint allows the surgeon some flexibility in placing the screws.

It has also been hypothesized that polyaxial screws add a safety benefit by failing in the housing/screw interface before breaking in the shaft of the bone screw or in the orthopedic rod. Unlike standard lateral mass plate and screw systems, the new cervical polyaxial screw and rod system easily accommodates severe degenerative cervical spondylosis and curvatures. This instrumentation system allows for polyaxial screw placement with subsequent multiplanar rod contouring and offsets attachment

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