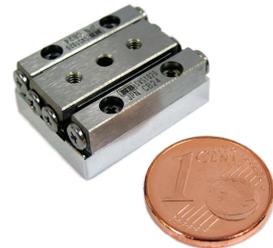


# SMARACT GMBH

The core competence of SmarAct is the development of miniaturised positioners that provide an extremely high accuracy.

In the figure on the right you can see the smallest closed-loop nanopositioner with a travel range of 12mm. Its integrated nanosensor provides a resolution of 1nm and the bidirectional repeatability is +/-25nm for the whole travel range and even smaller if the positioner is moving within a small range.



Our product portfolio includes different types of positioners, ranging from linear positioners with different lengths and sensor resolutions as well as rotary positioners and goniometers. Almost all positioners can be equipped with position sensors.



We support you in finding the right products for your positioning system and we deliver a completely assembled system with controller. In the figure on the left you can see a 4D positioning system which provides three translational axes as well as one rotary axis - all including sensor feedback.

Vacuum compatibility is often required for high-precision applications. For this we offer various vacuum options (down to  $10^{-10}$  mbar) for our positioners. In addition, we can produce the

positioners with non-magnetic materials and we can also prepare them for their application in cryogenic environments.

We are working closely together with our customers and, if required, we integrate our actuators and sensors with existing or specially chosen guideways. Since the development and the complete production is done in-house we can quickly design and produce custom-specific positioning systems.

For further information on our positioners please browse our catalogue, which you can find on our website: <http://www.smaract.de/catalogue> (PDF 8,3 MB)

**For any inquiries please just call us or write an e-mail.**



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