### Press release Reutlingen, November 2020

**Optomechanic for Vision machines**

**Variably fastened 3D camera mount for imaging, Vision machine and sensorics**

Embedded Vision - smart image processing systems, which are directly integrated into machines and plants, give equipment "vision"! Optics, data links and software are the focus of rapid developments from KI and Deep Learning for countless tech companies. But who cares about the mechanical interfaces of industrial devices? Who brings camera and machine together in such a way that all mounting situations can be universally implemented with only a few standard components?

dk FIXIERSYSTEME GmbH & Co.KG shows how almost any camera positioning, no matter how complex, can be easily generated, easily adjusted and permanently and rigidly fixated with only one mounting element. And this considerably cheaper than with system and process-specific designed and custom-made rigid, and therefore not re-adjustable camera mounts!

What are the requirements for a high-end camera mount?

* Technical simplicity and universal connections to machine and camera
* Spatial camera positioning independent of machine frame
* Unlimited, variable 3D spatial camera alignment
* Selection of different action radii
* INOX versions for sterile rooms and clean zones are available
* Adjustment of the camera's degree of movement from lightly adjustable to absolutely rigid without tools
* The degree "absolutely rigid" is comparable to welded parts
* Every fixation can be readjusted and dismantled without tools

The solution is a 3D camera mount with special technical features - especially the mechanical progressive central clamping of three joints designed for maximum force.

For these 3D joints, dk has developed versions with action radii from 100 to 600 mm in three materials and two technical variants. The TurnStop technology in particular provides maximum strength through the combination of positive and frictional locking in the precision joints.

And the new INOX-HygienicLine has all the features required for clean and sterile rooms.

The benefit of the systematic use of such joints by plant manufacturers is obvious:

* Standard brackets for all applications instead of machine-specific special solutions
* Largely free 3D positioning of the camera in the machine interior
* Bridging wide and geometrically complex distances
* Perfect infinitely variable alignment via three individual joints
* Simplest operation
* Absolutely rigid and secure end result but still re-adjustable
* Can still be used after modifications or disassembly
* INOX solutions for clean and sterile rooms in high-tech and micro industries

The advantages over cheap joints, ball-head, standard angles and special solutions milled from the solid are more than clear. The costs are relativised by versatility, speed, permanently secure function and repeated usability. This is fully in line with the principle of dk: "FAST REASSEMBLY LIFELONG".

**Number of characters**

Total: 2.890 characters

Words: 607 words

**A short profile of dk FIXIERSYSTEME GmbH & Co. KG**

The core expertise of dk FIXIERSYSTEME is in modular clamping specially for measuring technology, but also for laser technology, metering technology, mounting technology, microtechnology and parts handling.

Soon after it came onto the market in 1972, the dk team started specialising in fixation technologies and has been expanding its range of products since then. Today, our product range includes around 1,000 products which can be freely combined together in a modular system. Users who work with dk technology regularly confirm that the possibility to combine modules flexibly and the durability of the elements guarantee a precise measurement result with a continuous workflow.

*dk Fixiersysteme: modular. simple. better.*



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Images:

**High load clamping joint**

Camera positioning independent of the machine frame

with central clamping of 3 precision joints  
infinitely variable and absolutely rigid in the complete 3D space



*PR message for trade journals in the disciplines...****Opto Mechanics***

***Machine Vision***

***Automation (machinery, foodstuff, bio, pharmaceutical)***

***Production 4.0  
Applied image processing   
Optical measuring technology***

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