

Clamping Technology | Standard Elements | Operating Parts



HEINRICH KIPP WERK



**NEW**

**5-AXIS VICE KIPPflexX**

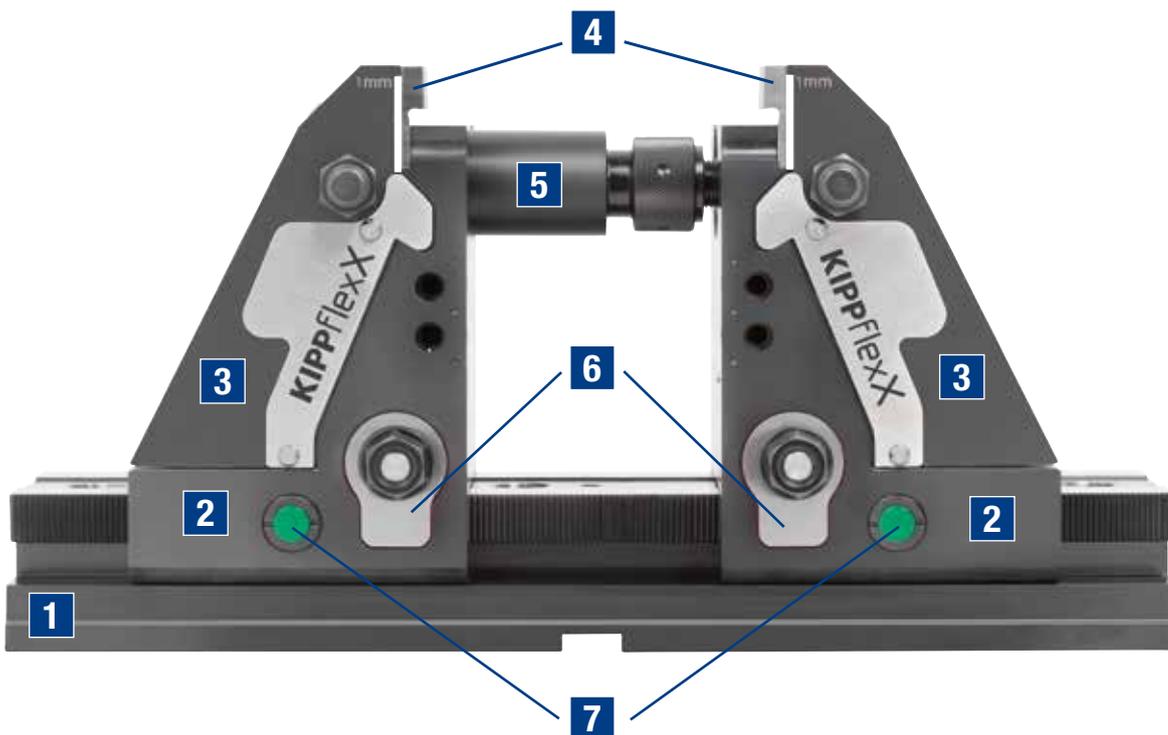
# KIPPflexX 5-axis vice



## Function

The KIPPflexX vice is the 3rd generation of vices for 5-axis milling machines. The KIPPflexX generation impresses with the addition of a crank handle for more user-friendliness and by retaining the proven clamping physics used in the 5-axis compact series. The 5-axis vices can be used as standard vices for holding blanks and as centric vices with pull-down effect - 2 in 1. Further advantages for milling machine operators are the enormous clamping force for all applications, optimum accessibility for short tools and a high rigidity → 2 in 1.

Enormous retaining force for all requirements, optimum accessibility for short tools, and high rigidity are further advantages for milling machine operators.



- 1** Base plate
- 2** Positioning elements
- 3** Vice jaws
- 4** Jaw plates
- 5** Extension shafts and threaded spindle
- 6** Clamping element with nut
- 7** Thrust pin for pre-centering

### ADVANTAGES:

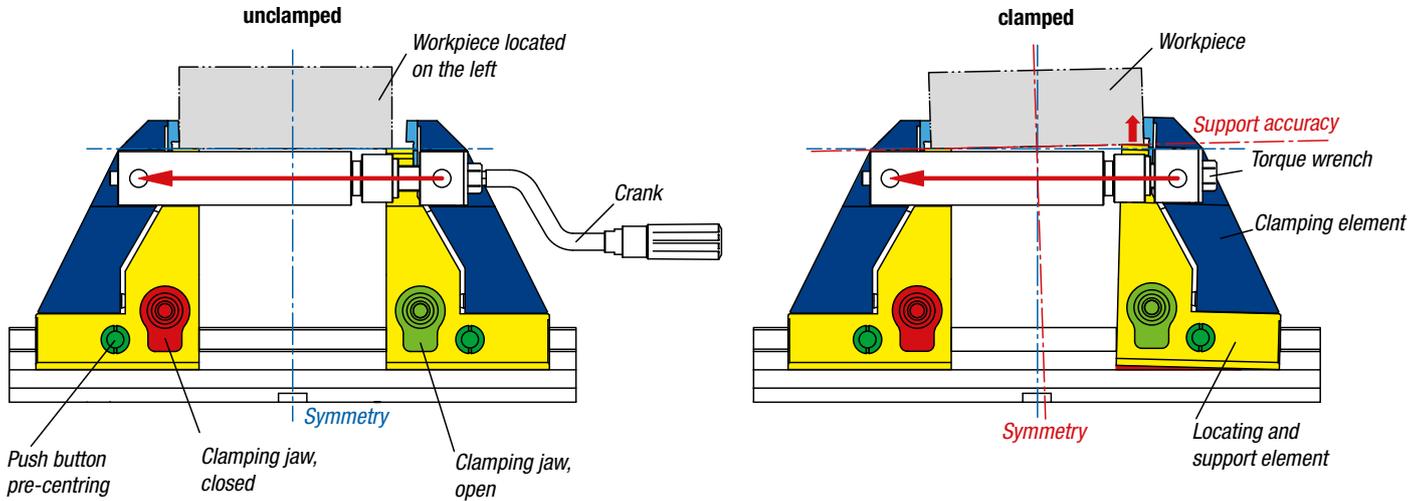
- Normal vice and centric vice → 2 in 1
- Clamping with integrated positive- down effect
- Quick adjustment with the crank function
- Very high clamping force directly on the workpiece
- Highest rigidity in the system
- Best tool accessibility from all sides

# Technical explanation

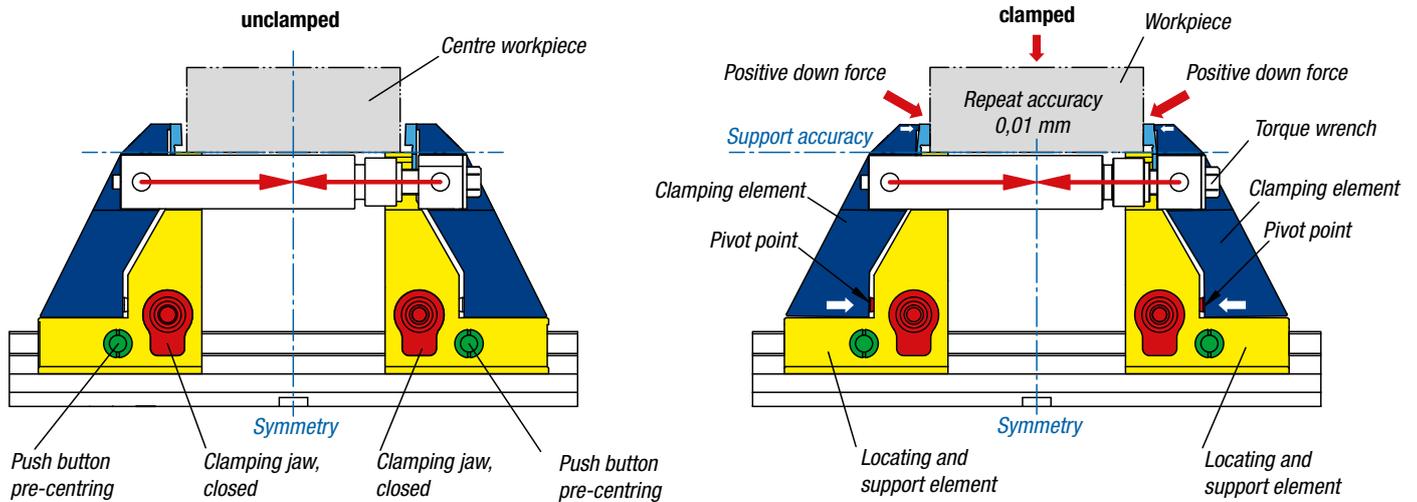
## The difference between a standard vice and pull-down effect



### Blank clamping / Vice principle



### Downthrust clamping



Clamping jaw (red) open on one side  
→ used as a standard vice



Clamping jaw closed on both sides  
→ used as a centric vice with pull-down effect

# Example



KIPPflexX 5-axis clamping system used as a vice for clamping raw parts. The left red jaw is open. Quick adjustment with the crank handle. Force is applied by a torque wrench.



Pull-down clamping with the KIPPflexX centric vice function. Both jaws are locked, so that when force is applied - by deflecting the clamping jaws - a pull-down effect is produced towards the workpiece support.



5-side machining on a 5-axis milling machine. Optimum accessibility for the tool for direct machining with the KIPPflexX 5-axis clamping system.



Information about the 5-axis vice KIPPflexX can be obtained directly from your contact person:

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