# HAUBEX Technology



#### 1 HAUBEX tool holders

Tool holders of type HSK-A63, SK-40 and BT-40 specially adapted to HAUBEX guarantee an exactly defined positioning of the workholding hood in the machine spindle.

#### 2 HAUBEX workholding hood

The aluminium workholding hood is the carrier system which transfers vise and workpiece blank from the tool magazine into the zero-point clamping system on the machine table. By means of a 90° closing movement, it opens and locks the zero-point system mechanically, which means that the system does not require any additional utilities on the machine side. A safety element between the workholding hood and the tool holder acts as a buffer and protects the machine spindle in the event of unexpected collisions. An integrated guide and fixation secures the vise against unintentional release from the workholding hood and ensures a secure fit.

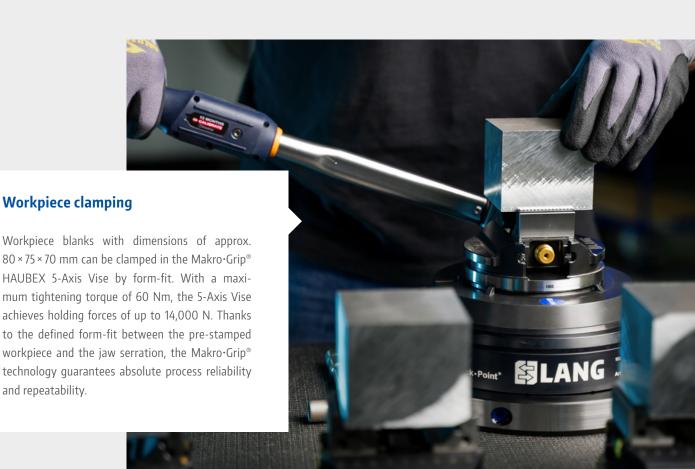
#### 3 Makro·Grip® HAUBEX 5-Axis Vise

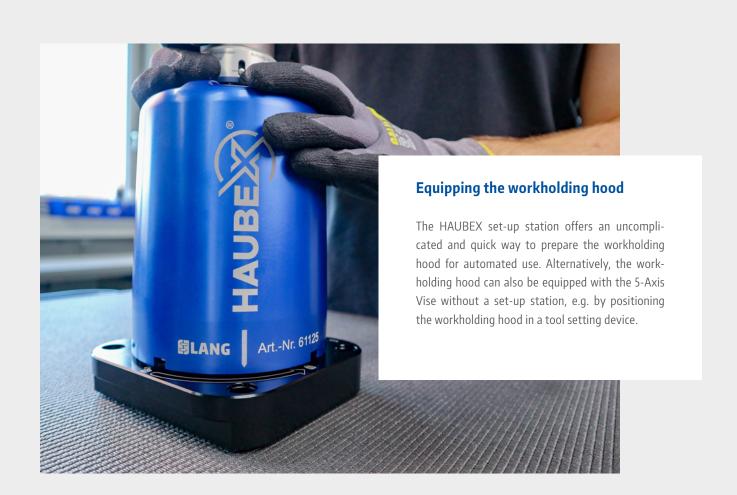
HAUBEX uses a modified version of the Makro·Grip® as the workholding device. The slim design of the 5-Axis Vise and the narrow jaw width of 46 mm ensure ideal accessibility in 5-sided machining of blanks. The maximum workpiece size of approx. 80 × 75 × 70 mm is given by the height and diameter of the workholding hood. Examples of maximum possible workpiece dimensions and a formula for their calculation are available on the website.

#### 4 Quick • Point® HAUBEX zero-point clamping system

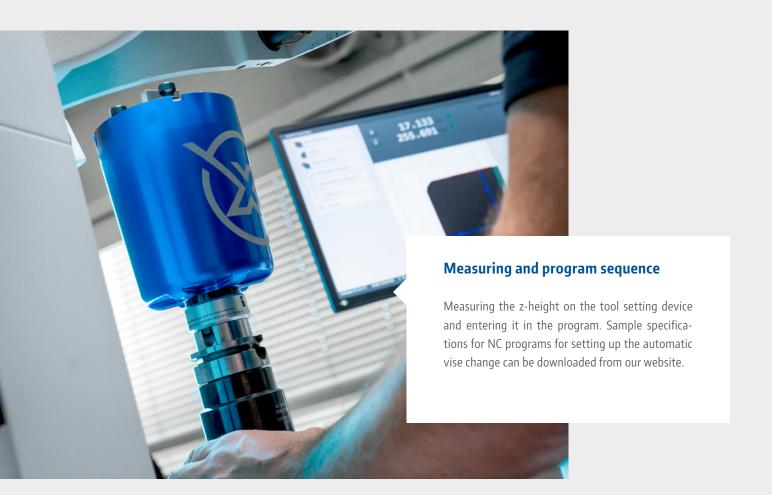
The patented clamping mechanism of the zero-point device is actuated by the HAUBEX workholding hood in automated production or manually via a clamping lever, in each case by a 90° closing movement. The zero-point device is equipped with clamping studs which guarantees a fast set-up process in the Quick•Point® 96 system.





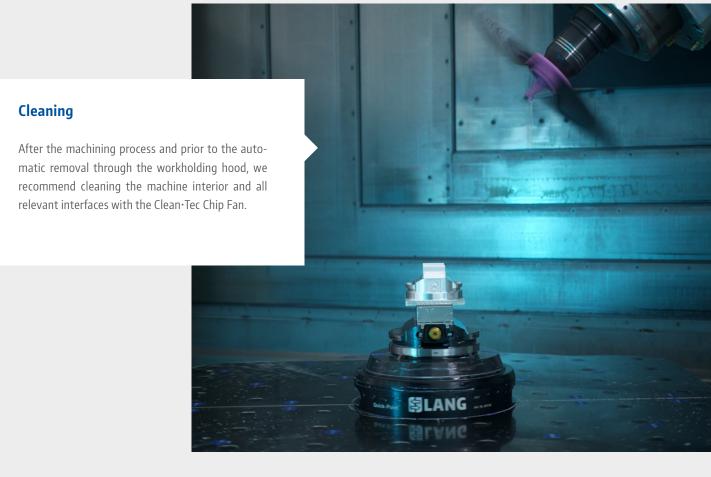


and repeatability.









# **HAUBEX Components**





# HAUBEX WORKHOLDING HOOD

ITEM NO.	LOWER DIAMETER	MAX. WORKPIECE SIZE	WEIGHT	TOTAL HEIGHT
61125	Ø 125 mm	approx. 80 × 75 × 70 mm	1.0 kg	185 mm

<sup>\*</sup> including safety element



Workholding hood with HSK-A63

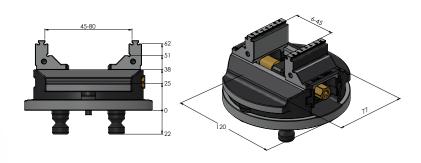


Workholding hood with SK 40



Workholding hood with BT 40















MAKRO·GRIP® HAUBEX 5-AXIS VISE

ITEM NO.	DIMENSIONS	CLAMPING RANGE	WEIGHT
61085-46	Ø 120 × 65 mm	0 – 80 mm	2.6 kg











# QUICK POINT® HAUBEX ZERO-POINT CLAMPING SYSTEM

ITEM NO.	DIMENSIONS	GRID SIZE	WEIGHT
61110	Ø 211 × 74 mm	52	8.6 kg

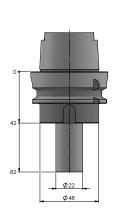
# **HAUBEX Components**

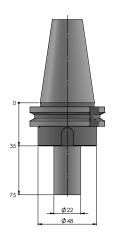


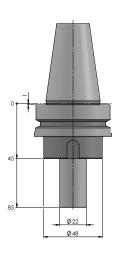
# **HAUBEX TOOL HOLDER**

ITEM NO.	TYPE	STANDARD	WEIGHT	TOOL LENGTH*
61500-HSK63	HSK-A63 (Hollow taper shank)	DIN 69893-1	1.0 kg	approx. 247 mm
61500-SK40	SK-40 (Steep taper)	DIN ISO 7388-1	1.1 kg	approx. 240 mm
61500-BT40	BT-40 (Steep taper)	JIS B6339	1.3 kg	approx. 250 mm

 $<sup>^*</sup> including workholding hood and Makro \cdot Grip^{\circ}. Measured to the lower edge of the clamping studs of the 5-Axis Vise. \\$ 











# **HAUBEX SET-UP STATION**

ITEM NO.	DIMENSIONS	GRID SIZE	WEIGHT	
61115	144 × 144 × 33 mm	52	1.5 kg	
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