

# Tilt Element

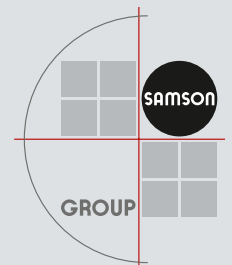
Submicrometer accuracy

SAMSO  
MATIC

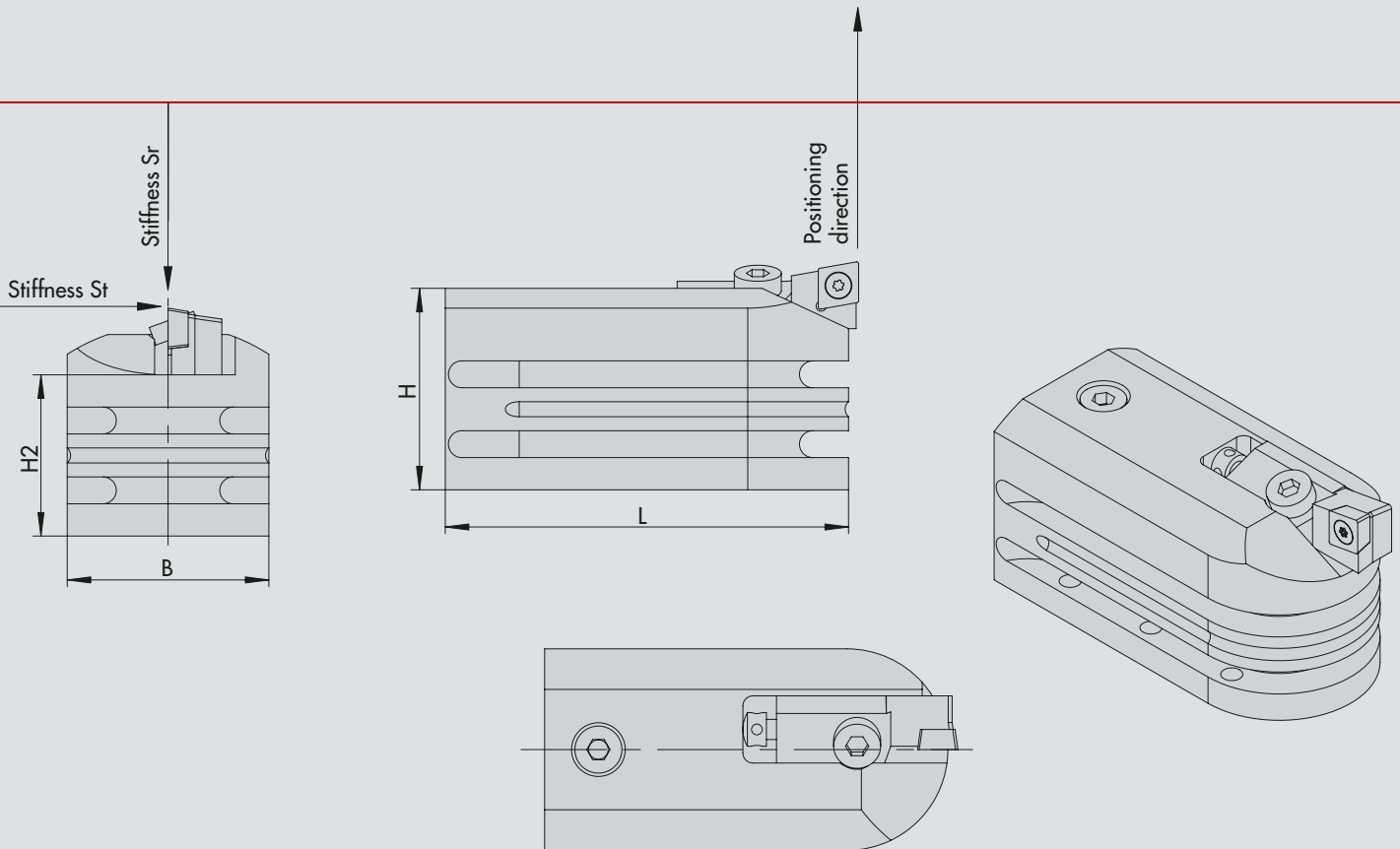


*μm*

- Compact design
- Positioning accuracy 0.001 mm
- Rugged, dirt-insensitive construction
- No mechanical moving parts
- Compensation for tool cutting edge wear
- Compensation for indexable insert tolerances
- Compensation for temperature effects
- Avoidance of tool withdrawal marks due to rapid tool retraction at the end of each machining cycle
- No hysteresis, meaning continuous positioning during machining possible (form boring)



# Technical data



System size	Width B	Height H	Height H2	Length L	Max. travel	Stiffness Sr	Stiffness St
30	30 mm	25 mm	19 mm	50 mm	70 $\mu\text{m}$	40 N/ $\mu\text{m}$	40 N/ $\mu\text{m}$
40	40 mm	30 mm	24 mm	60 mm	100 $\mu\text{m}$	45 N/ $\mu\text{m}$	70 N/ $\mu\text{m}$
50	50 mm	37 mm	30 mm	75 mm	130 $\mu\text{m}$	60 N/ $\mu\text{m}$	100 N/ $\mu\text{m}$
60	60 mm	45 mm	36 mm	90 mm	150 $\mu\text{m}$	70 N/ $\mu\text{m}$	120 N/ $\mu\text{m}$
...	...	...	...	...	...	...	...
160	160 mm	120 mm	96 mm	240 mm	400 $\mu\text{m}$	200 N/ $\mu\text{m}$	400 N/ $\mu\text{m}$

Further sizes and special versions available on request



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