TOPLUS

Six to win -
simply revolutionary

HAINBUCH

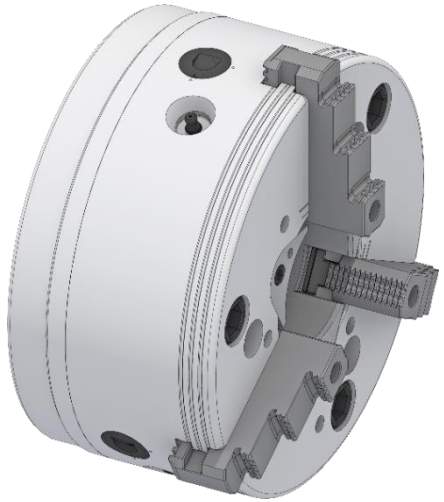
YOUR CHALLENGES

- Many scrap parts
- Vibration during machining
- Contamination on the clamping device
- Mass Production
- Process and production optimization
- Workpiece deformations
- High torques during machining
- Process stability
- High accuracy requirements
- High machining forces
- Short tool life
- Short gripping length

COMPARISON TO OTHER CLAMPING SYSTEMS

3-jaw chuck

- Long change-over time – adjusting & machining to size
- No enclosing clamping
- Radial clamping – no option for pull-back
- High inertia loss
- High maintenance – susceptible to contamination



Collet

- No full-surface contact when clamping
- Collet bends when clamping
- Higher wear due to lower material hardness of the collet material
- Low rigitidy

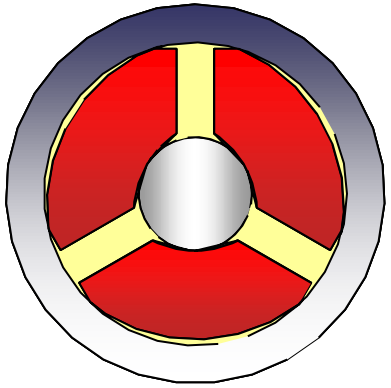
TOPlus – simply revolutionary

- Embraced clamping
- Minimal workpiece deformation
- 25 % higher holding power than SPANNTOP
- Unequalled rigidity due to full-surface contact of the clamping segments
- Run-out ≤ 0,01 mm [size 65]
- Superior resistance to contamination because of the clamping head geometry
- Absorbs vibration
- Optimal lubrication thanks to lubricating grooves in the clamping head reception
- Minimal inertia loss

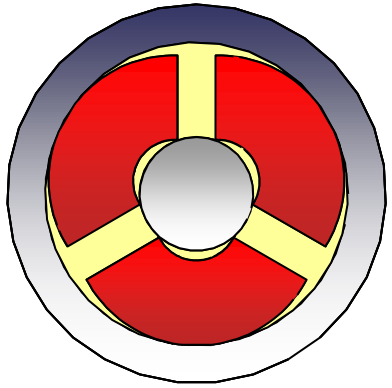
COMPARISON ROUND AND HEXAGONAL

Round systems [RD]

- Depending on the clamping position, there are small gaps between clamping element and chuck body
- Weak spot with regard to contamination
- Lubrication is washed away



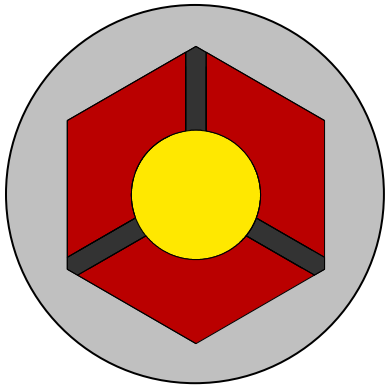
Workpiece Ø < Ø clamping head



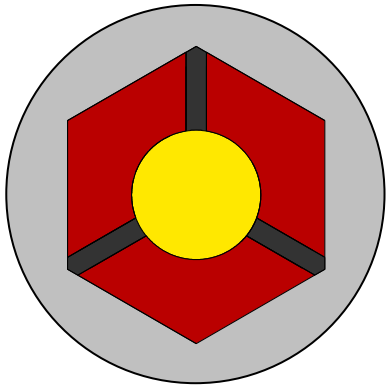
Workpiece Ø < Ø clamping head

Hexagonal Systems [SE]

- Full contact in all clamping positions
- Very resistant to contamination
- Lubrication is maintained
- At least 25% higher clamping force in the field
- Less wear and vibrrations



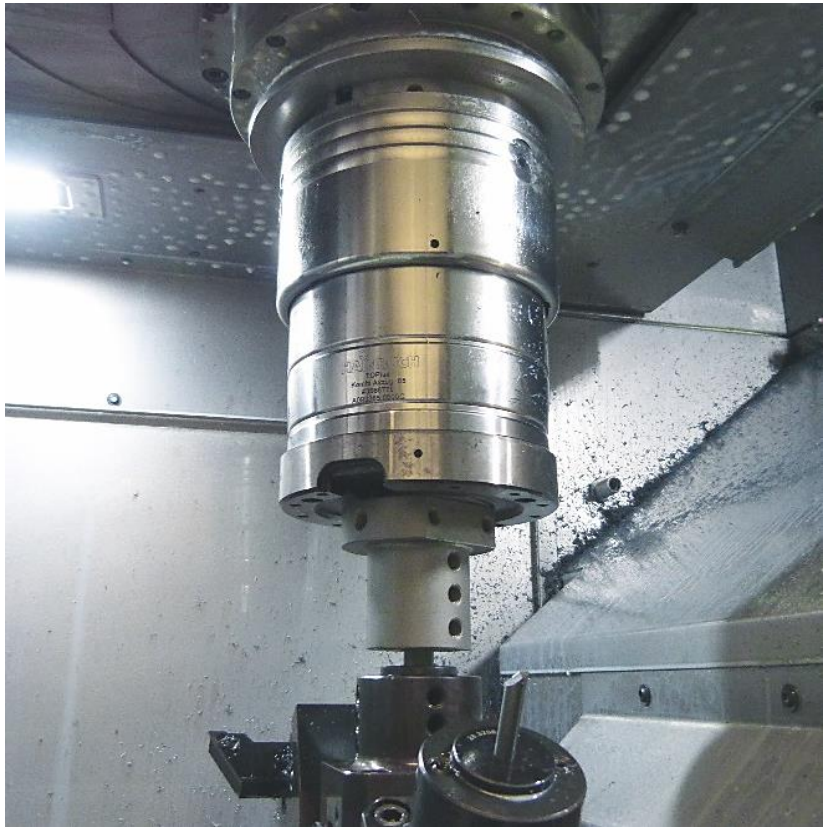
Workpiece Ø < Ø clamping head



Workpiece Ø < Ø clamping head

CASE EXAMPLES

EMAG vertical-lathe



»Company EWS«

Lathe

»Company KML«

WFL turning centre

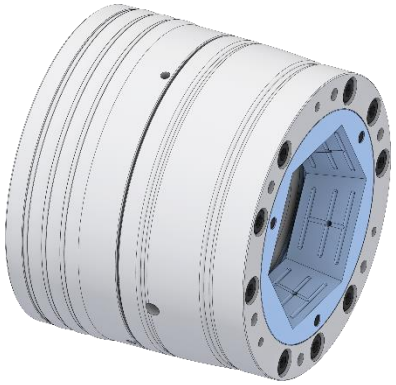
»Company Arburg«

VARIANTS

TOPlus combi pull-back

- Workpiece stabilization through axial draw force applied against the workpiece end-stop
- Prepared for inside and front end-stop
- Converts to a fully functional bar chuck when the end-stop is removed

TOPlus combi deadlength



- Workpiece clamping without axial movement of the clamping head
- Clamp workpieces with short collar or shoulder
- Suitable for pick-off without pull-back effect
- Prepared for inside and front end-stop
- Converts to a fully functional bar chuck when the end-stop is removed

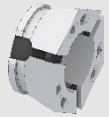
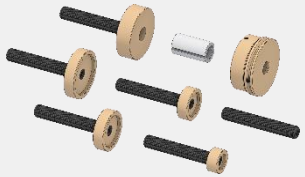
TOPlus modular

- Fully functional bar chuck
- Due to pull-back effect significantly more rigid clamping is achieved than by conventional collets
- Higher RPM and metal removal rates for bar work

SIZES

Size	Chuck type	In Stock
Size 52	Pull-back	x
	Deadlength	x
	Modular	x
Size 65	Pull-back	x
	Deadlength	x
	Modular	x
Size 100	Pull-back	x
	Deadlength	x
	Modular	x

ACCESSORIES

	Product category	Description
	**Clamping elements** • Clamping head SE	Clamping elements for raw- and finished material. Clamping surface in different designs available.
	**Changing fixture**	Your auxiliary equipment for fast change-over to another diameter. Manual and pneumatic version available.
	**Flanges and drawtube adapter**	Connection between the clamping device and the machine spindle. Enables flexible use of the chuck on different machines.
	**End-stop-system** • Front-end-stops • End-stop blanks • Vario flex and vario quick	Prefabricated end-stops. Prefabricated raw material blanks that can be customized to the diameter and length of your workpieces. Adjustable end-stops.
	**HAINBUCH-System** • Adaptation SE	Change-over without changing the main clamping device | MANDO Adapt / jaw-moduls / face driver / morse taper adaptation / magnet module.
	**Alignment set**	Exact alignment ensures process reliability.
	**Grease**	To maintain the mechanical function and clamping force.

Please find more information about our products at:

www.hainbuch.com

As well as in our webshop at:

www.shop.hainbuch.com