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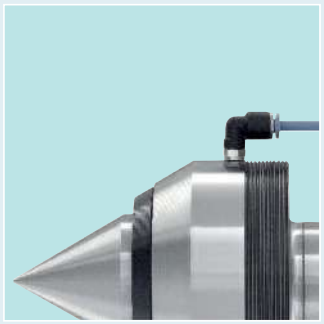
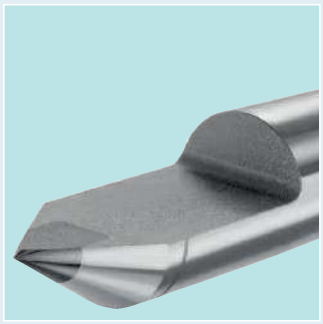


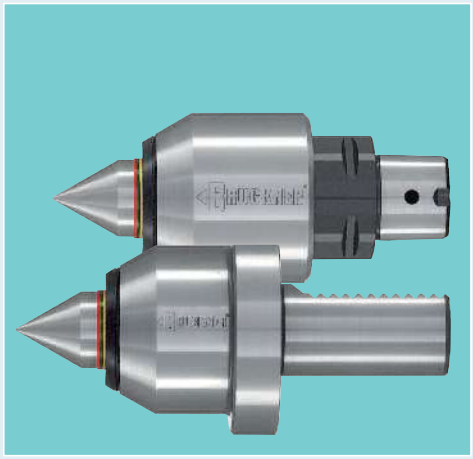


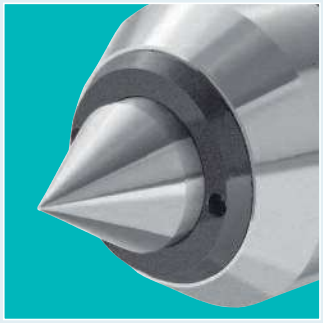

High Performance Centres

for Turning and Grinding

Conventional turning

( ) = catalogue pages

Operation requirements	Recommended series/types			
Workpiece accuracy ≥ 0.004 mm	**S Series** (9-15)		**Bokö Series** (26/27)	
Workpiece accuracy ≤ 0.003 mm	**S Series 3µm** (9-15)		**LK Series 3µm** (22-25)	
High workpiece surface finish	**LK Series** (22-25)			
Hard workpieces (hard turning)				
High live centre rigidity				
Elimination of or minimum vibrations during operation				
Heavy coolant flow	**NC Series** (18-21)			
High r.p.m. (> 5.000 1/min.)	**NC Series** (18-21)		**LK Series** (22-25)	
Long shafts	**LR Series** (28-33)		**LD Series** (34-37)	
Thermal expansion of workpiece due to machining				
Large workpiece centres/bores	**ZA Series** (48-53)		**Type LDA** (35)	
Variable clamping possibilities for different workpieces	**Types SE/SEG** (14/15)	**Type NCE** (20/21)	**Type LRE** (32/33)	**Type LDE** (36/37)
High rate of wear on the 60° centre point angle				
Wear reduction on the 60° angle by carbide tipping	**Types SH/SHG** (12)	**Types SV/SVG** (13)	**Types LKH/LKHG** (25)	
Tailstock without hydraulic force adjustment	**LR Series** (28-33)			
Controlling the axial force				
Face driver application with mechanical tailstock				
Face driver application with hydraulic tailstock	**S Series** (9-15)	**LD Series** (34-37)	**NC Series** (18-21)	
Tailstock sleeve design prevents convenient removal of live centre	**A Series** (16/17)	**NC Series** (18-21)	**LK Series** (22-25)	

CNC turning

Operation requirements	Recommended series/types			
Workpiece accuracy ≥ 0.004 mm	**S Series** (9-15)	**NC Series** (18-21)	**Bokö Series** (26/27)	
Workpiece accuracy ≤ 0.003 mm	**S Series 3µm** (9-15)		**LK Series 3µm** (22-25)	
High workpiece surface finish	**LK Series** (22-25)			
Hard workpieces (hard turning)				
Elimination of or minimum vibrations during operation				
Heavy coolant flow	**NC Series** (18-21)			
High r.p.m. (> 5.000 1/min.)	**NC Series** (18-21)		**LK Series** (22-25)	
Long shafts	**LR Series** (28-33)		**LD Series** (34-37)	
Thermal expansion of workpiece due to machining				
Large workpiece centres/bores	**ZA Series** (48-53)		**Type LDA** (35)	
Variable clamping possibilities for different workpieces	**Types SE/SEG** (14/15)	**Type NCE** (20/21)	**Type LRE** (32/33)	**Type LDE** (36/37)
High rate of wear on the 60° centre point angle				
Wear reduction on the 60° angle by carbide tipping	**Types SH/SHG** (12)	**Types SV/SVG** (13)	**Types LKH/LKHG** (25)	
Tailstock without hydraulic force adjustment	**LR Series** (28-33)			
Controlling the axial force				
Face driver application with mechanical tailstock				
Face driver application with hydraulic tailstock	**S Series** (9-15)	**LD Series** (34-37)	**NC Series** (18-21)	
Compensation for varying centre depths and length tolerances of the workpiece at fixed preset tailstock and turret positions	**LR Series** (28-33)		**T-Line** (38-41)	
Centre in second counter spindle				
Tailstock sleeve design prevents convenient removal of live centre	**A Series** (16/17)	**NC Series** (18-21)	**LK Series** (22-25)	

Cylindrical grinding

( ) = catalogue pages

Operation requirements	Recommended series/types	
Workpiece accuracy	**S Series 3µm with additional sealing** (9-15)	**LK Series 3µm** (22-25)
High workpiece surface finish	**LK Series 3µm** (22-25)	
Elimination of or minimum vibrations during operation		
Heavy coolant flow	**S Series 3µm, with additional sealing** (9-15)	
Long shafts	**S Series 3µm with additional sealing** (9-15)	**LK Series 3µm** (22-25)
Large workpiece centres/bores	**ZA Series 3µm** (48-53)	
Variable clamping possibilities for different workpieces	**Type SEG with additional sealing** (14/15)	
Wear reduction on the 60° angle by carbide tipping	**Type SHG with additional sealing** (12)	**Type SVG with additional sealing** (13)
Tailstock sleeve design prevents convenient removal of live centre	**A Series 3µm with additional sealing** (16/17)	**LK Series 3µm** (22-25)

Heavy-duty machining

Operation requirements	Recommended series/types	
Without tailstock sleeve support, without expansion compensation	**Types M/MG, Type AM/AMG** (44)	
Without tailstock sleeve support, with expansion compensation and pressure indication	**Types MZ/AMZ** (46/47)	
With tailstock sleeve support, without expansion compensation	**Types MR/MRG** (45)	
With tailstock sleeve support, with expansion compensation and pressure indication	**Type MZR** (46/47)	
High workpiece surface finish	**Types MR/MRG** (45)	**Type MZR** (46/47)
Thermal expansion of workpiece due to machining	**Types MZ/AMZ** (46/47)	
Large workpiece centres/bores	**ZA Series** (48-53)	
Tailstock sleeve design prevents convenient removal of live centre	**Types AM/AMG** (44)	**Type AMZ** (46/47)
Interrupted cut/out of balance workpiece	**Types MR/MRG** (45)	**Type MZR** (46/47)

Measuring/testing

Operation requirements	Recommended series/types		
Workpiece accuracy ≤ 0.003 mm and more	**S Series 3µm** (9-15)	**LD Series 3µm** (34-37)	
Long shafts	**S Series 3µm** (9-15)	**LK Series 3µm** (22-25)	
Large workpiece centres/bores	**ZA Series 3µm** (48-53)		
Variable clamping possibilites for different workpieces	**Type SEG** (14/15)		
Wear reduction on the 60° angle by carbide tipping	**Type SHG** (12)	**Type SVG** (13)	**Type LKHG** (25)
Tailstock sleeve design prevents convenient removal of live centre	**A Series 3µm** (16/17)	**LK Series 3µm** (22-25)	

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HS Face Drivers
with hydraulic compensation

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with mechanical compensation

Work Drivers