



TOPlus premium

Maximum precision in a mini format





The TOPlus premium chuck is ideal for high-precision clamping of delicate and thin-walled parts, as well as solid and massive parts. In combination with premium clamping heads and when clamping against the end-stop, you benefit from incredible run-out accuracy of $\leq 5 \mu\text{m}$.

That makes the standard TOPlus premium chuck a better and less expensive alternative to hydraulic and diaphragm clamping devices. In addition to high precision, the large opening stroke also facilitates automated loading of the machine – even if the robot is somewhat inaccurate. By the way, slight contact with the workpiece during loading has no negative effect on the TOPlus premium. Despite its high precision it remains »robust« and your process remains stable.

For machining in which »standard« accuracy is sufficient, you can simply use conventional standard clamping heads. As with the conventional TOPlus mini, the run-out accuracy when clamping against the workpiece end-stop is then $10 \mu\text{m}$. Of course, all compatible HAINBUCH adaptations can also be used. Change-over from O.D. to I.D. clamping or jaw clamping in less than two minutes is therefore assured.

The most accurate of all HAINBUCH chucks!

Key advantages

- Run-out accuracy $\leq 5 \mu\text{m}$ with premium clamping heads, otherwise $\leq 10 \mu\text{m}$ [requires clamping against the workpiece end-stop]
- For precise and powerful clamping
- Changeable to I.D., or jaw clamping [HAINBUCH SYSTEM]
- Less expensive than hydro-expansion and diaphragm clamping devices



CHUCKS

TOPlus premium chuck



TOPlus premium pull-back in detail

Designation	
1 Standard or premium clamping head with pull-back and hexagonal geometry for optimum chuck sealing and improved clamping force 2 Spindle flange 3 Chuck through-bore for bar work after disassembling the base end-stop 4 Fixed base end-stop for clamping with pull-back effect, central mounting thread for workpiece specific end-stop 5 Mounting thread for drawtube connection 6 Clamping screw for base end-stop, easy mounting through external actuation 7 Grease nipple, optimal holding power due to efficient lubrication	

Max. run-out accuracy of chuck

Variant	premium chuck with standard clamping head	premium chuck with premium clamping head
Run-out	$\leq 10 \mu\text{m}$	$\leq 5 \mu\text{m}$
Description	Measured on a ground test shaft according to HAINBUCH standard [Alignment set], clamped against a workpiece end-stop	
Clamping head	- Standard sizes are in stock - Inexpensive clamping head - Round, other profile clamping also available [standard clamping range]	- Custom clamping diameter - High-precision run-out - Round clamping possible [clamping range starting at 10 mm]



CHUCKS

TOPlus premium chuck

Order overview. TOPlus premium chuck

Clamping elements and adaptations

Size	Variant	Spindle nose	Total length [mm]	Material no.	In stock	Clamping elements and adaptations					
											
						Page 422	Page 274	Page 280	Page 316	Page 324	Page 332
26	Pull-back	A2-4	102	10017416	✓	✓					
		A2-5		10017418	✓						
			125	10017419	✓						
40	Pull-back	A2-4	125	10017420	✓	✓					
			117	10017421	✓						
		A2-5	125	10017422	✓						
			143	10017423	✓						
			124	10017424	✓						
		A2-6	142	10017425	✓						
			106	10017426	✓						
		AP120	118	10017427	✓						
			106	10017428	✓						
		AP140	106	10017428	✓						
52	Pull-back	A2-5	122	10017430	✓	✓	✓	✓	✓	✓	✓
			145	10017432	✓						
		A2-6	122	10017433	✓						
			145	10017434	✓						
		A2-8	120	10017435	✓						
			145	10017436	✓						
		AP110	120	10017437	✓						
			105	10017438	✓						
		AP120	115	10017439	✓						
			105	10017440	✓						
		AP140	115	10017441	✓						
			115	10017441	✓						
65	Pull-back	A2-5	124	10017442	✓	✓	✓	✓	✓	✓	✓
			130	10017443	✓						
			150	10017444	✓						
		A2-6	126	10017445	✓						
			130	10017446	✓						
			155	10017447	✓						
		A2-8	130	10017448	✓						
			155	10017450	✓						
		AP120	111	10017451	✓						
			120	10017452	✓						
		AP140	111	10017453	✓						
			120	10017454	✓						
		AP170	115	10017455	✓						
			115	10017455	✓						

CHUCKS

TOPlus premium chuck



Order overview. TOPlus premium chuck

						Clamping elements and adaptations					
Size	Variant	Spindle nose	Total length [mm]	Material no.	In stock						
						Clamping head SE Page 422	MANDO Adapt T211 SE for TOPlus mini / premium Page 274	MANDO Adapt T212 SE for TOPlus mini / premium Page 280	Jaw module SE Page 316	Face driver / morse taper adapter SE for TOPlus mini / premium Page 324	Magnet module SE Page 332
80	Pull-back	A2-5	132	10017456	✓	✓	✓	✓			
		A2-6	128	10017457	✓						
			135	10017458	✓						
			155	10017459	✓						
		A2-8	132	10017460	✓						
			150	10017461	✓						
			180	10017462	✓						
		AP140	132	10017463	✓						
		AP170	115	10017464	✓						
		AP220		10018433	✓						
100	Pull-back	A2-5	160	10017465	✓	✓	✓	✓	✓	✓	✓
		A2-6	164	10017466	✓						
			170	10017467	✓						
		A2-8	162	10017468	✓						
			180	10017469	✓						
		A2-11	180	10017470	✓						
			195	10017471	✓						
		AP170	164	10017472	✓						
		AP220	150	10017473	✓						

The specified accuracy is achieved with the compatible premium clamping head when clamping against a workpiece end-stop.

TOPlus premium and TOPlus mini chucks require adaptations [MANDO Adapt, face driver and morse taper adapter] of the mini series.

Machine spindle standard DIN ISO 702-1.

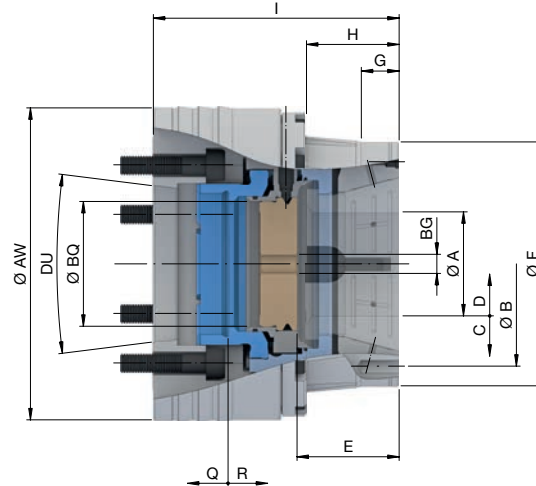
For more connection data please visit www.hainbuch.com

Scope of delivery

- Chuck
- Base end-stop
- Socket wrench insert 1/2"



TOPlus premium pull-back size 26. Technical data



Size	26	
Variant	Pull-back	
Run-out with standard clamping head ≤ [mm]	0,010	
Run-out with premium clamping head ≤ [mm]	0,005	
Max. radial clamping force [kN]	35	
Max. axial drawtube force [pull / push] [kN]	16	
RPM n max. [1/min.]	10000	
Clamping range with standard clamping head [mm] A	3 – 26	
Clamping range with premium clamping head [mm] A	10 – 26	
Release stroke in Ø [mm] C	0,6	
Reserve stroke in Ø [mm] D	0,6	
Range / recommended workpiece tolerance [mm]	± 0,3	
End-stop depth [mm] E	33,8	
Ø Capacity [mm] BQ	37	
End-stop thread size [M] BG	8	
Location front end-stop F	Ø 67 f7	
Centering length [mm] G	15	
Bolt hole circle end-stop B	LK Ø 58 [3 x M6]	
Length [mm] H	43	
Reserve stroke axial [mm] Q	1	
Release stroke axial [mm] R	2	

Spindle nose	DU	A2-4	A2-5
Total length [mm]	I	102	125
Outer Ø [mm]	AW	114	128
Weight [kg]		4,9	6,3
In stock		✓	✓
Material no.		10017416	10017418

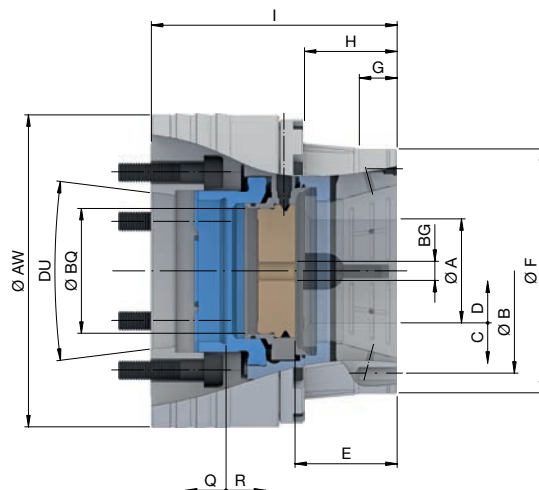
Clamping heads	Alignment set	Accessory overview
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CHUCKS

TOPlus premium chuck



TOPlus premium pull-back size 40. Technical data

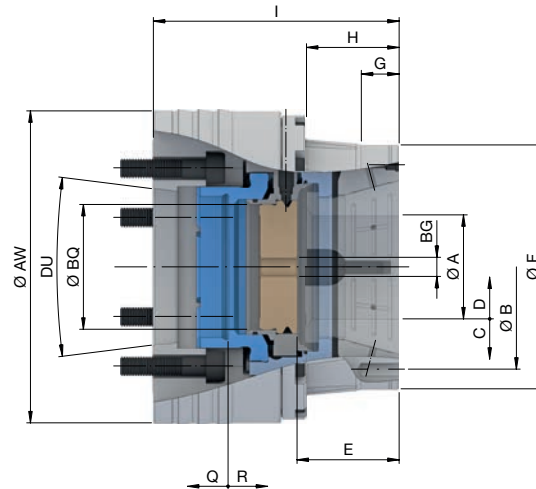


Size	40					
Variant	Pull-back					
Run-out with standard clamping head ≤ [mm]	0,010					
Run-out with premium clamping head ≤ [mm]	0,005					
Max. radial clamping force [kN]	103					
Max. axial drawtube force [pull / push] [kN]	33					
RPM n max. [1/min.]	7000					
Clamping range with standard clamping head [mm] A	3 – 40					
Clamping range with premium clamping head [mm] A	10 – 40					
Release stroke in Ø [mm] C	0,5					
Reserve stroke in Ø [mm] D	0,8					
Range / recommended workpiece tolerance [mm]	± 0,5					
End-stop depth [mm] E	47					
Ø Capacity [mm] BQ	44					
End-stop thread size [M] BG	10					
Location front end-stop F	Ø 91 f7					
Centering length [mm] G	20					
Bolt hole circle end-stop B	LK Ø 105 [3 x M6]					
Length [mm] H	47					
Reserve stroke axial [mm] Q	2					
Release stroke axial [mm] R	2					
Spindle nose DU	A2-4	A2-5		A2-6		
Total length [mm] I	125	117	125	143	124	142
Outer Ø [mm] AW	132		132		163	
Weight [kg]	7,7	7	7	7,5	9,5	10
In stock	✓	✓	✓	✓	✓	✓
Material no.	10017420	10017421	10017422	10017423	10017424	10017425
Spindle nose DU	AP120			AP140		
Total length [mm] I	106		118		106	
Outer Ø [mm] AW	132		132		150	
Weight [kg]	6,5		6,5		8	
In stock	✓		✓		✓	
Material no.	10017426		10017427		10017428	

Clamping heads	Alignment set	Accessory overview
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TOPlus premium pull-back size 52. Technical data



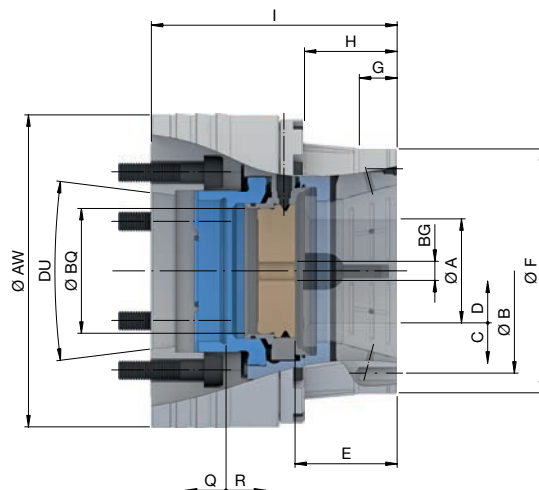
Size	52						
Variant	Pull-back						
Run-out with standard clamping head ≤ [mm]		0,010					
Run-out with premium clamping head ≤ [mm]		0,005					
Max. radial clamping force [kN]		108					
Max. axial drawtube force [pull / push] [kN]		40					
RPM n max. [1/min.]		7000					
Clamping range with standard clamping head [mm]	A	3 – 52					
Clamping range with premium clamping head [mm]	A	10 – 52					
Release stroke in Ø [mm]	C	0,6					
Reserve stroke in Ø [mm]	D	1					
Range / recommended workpiece tolerance [mm]		± 0,5					
End-stop depth [mm]	E	46					
Ø Capacity [mm]	BQ	53					
End-stop thread size [M]	BG	10					
Location front end-stop	F	Ø 119 f7					
Centering length [mm]	G	15					
Bolt hole circle end-stop	B	LK Ø 105 [3 x M8]					
Length [mm]	H	42					
Reserve stroke axial [mm]	Q	2					
Release stroke axial [mm]	R	2,5					
Spindle nose	DU	A2-5		A2-6		A2-8	
Total length [mm]	I	122	145	122	145	120	145
Outer Ø [mm]	AW	149		159		204	
Weight [kg]		10	10,5	11	15,7	16	
In stock		✓	✓	✓	✓	✓	✓
Material no.		10017430	10017432	10017433	10017434	10017435	10017436
Spindle nose	DU	AP110		AP120		AP140	
Total length [mm]	I	120	105	115	105	115	
Outer Ø [mm]	AW	149				150	
Weight [kg]		10,7	10			9,5	
In stock		✓	✓	✓	✓	✓	✓
Material no.		10017437	10017438	10017439	10017440	10017441	



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TOPlus premium pull-back size 65. Technical data

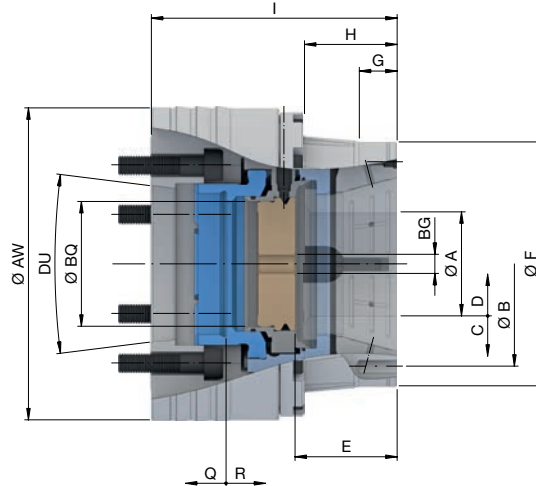


Size	65								
Variant	Pull-back								
Run-out with standard clamping head ≤ [mm]	0,010								
Run-out with premium clamping head ≤ [mm]	0,005								
Max. radial clamping force [kN]	120								
Max. axial drawtube force [pull / push] [kN]	45								
RPM n max. [1/min.]	6000								
Clamping range with standard clamping head [mm]	A	3 – 65							
Clamping range with premium clamping head [mm]	A	10 – 65							
Release stroke in Ø [mm]	C	0,6							
Reserve stroke in Ø [mm]	D	1							
Range / recommended workpiece tolerance [mm]		± 0,5							
End-stop depth [mm]	E	54							
Ø Capacity [mm]	BQ	66							
End-stop thread size [M]	BG	12							
Location front end-stop	F	Ø 129 f7							
Centering length [mm]	G	20							
Bolt hole circle end-stop	B	LK Ø 112 [3 x M8]							
Length [mm]	H	49							
Reserve stroke axial [mm]	Q	2							
Release stroke axial [mm]	R	2,5							
Spindle nose	DU	A2-5			A2-6			A2-8	
Total length [mm]	I	124	130	150	126	130	155	130	155
Outer Ø [mm]	AW	165						204	
Weight [kg]		11,5	13		11			16	
In stock		✓	✓	✓	✓	✓	✓	✓	✓
Material no.		10017442	10017443	10017444	10017445	10017446	10017447	10017448	10017450
Spindle nose	DU	AP120			AP140			AP170	
Total length [mm]	I	111	120		111		120		115
Outer Ø [mm]	AW	165						180	
Weight [kg]		12,5			11,8			12,5	
In stock		✓	✓	✓	✓	✓	✓	✓	✓
Material no.		10017451	10017452		10017453		10017454		10017455

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TOPlus premium pull-back size 80. Technical data

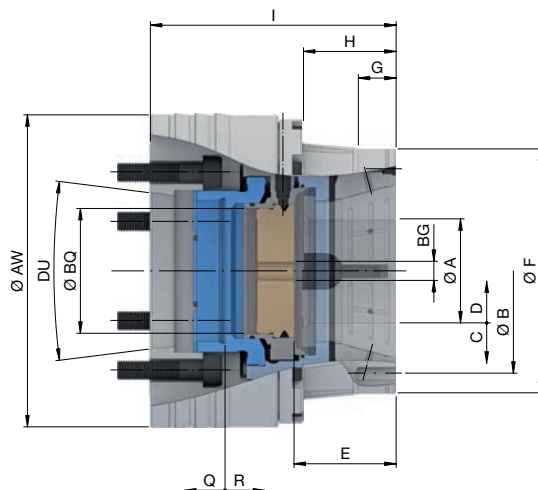


Size	80							
Variant	Pull-back							
Run-out with standard clamping head ≤ [mm]	0,010							
Run-out with premium clamping head ≤ [mm]	0,005							
Max. radial clamping force [kN]	132							
Max. axial drawtube force pull / push [kN]	50							
RPM n max. [1/min.]	5500							
Clamping range with standard clamping head [mm]	A	4 – 80						
Clamping range with premium clamping head [mm]	A	10 – 80						
Release stroke in Ø [mm]	C	0,6						
Reserve stroke in Ø [mm]	D	1						
Range / recommended workpiece tolerance [mm]		± 0,5						
End-stop depth [mm]	E	54						
Ø Capacity [mm]	BQ	82						
End-stop thread size [M]	BG	12						
Location front end-stop	F	Ø 150 f7						
Centering length [mm]	G	20						
Bolt hole circle end-stop	B	LK Ø 130 [3 x M8]						
Length [mm]	H	49						
Reserve stroke axial [mm]	Q	2						
Release stroke axial [mm]	R	2,5						
Spindle nose	DU	A2-5	A2-6			A2-8		
Total length [mm]	I	132	128	135	155	132	150	180
Outer Ø [mm]	AW	176				204		
Weight [kg]		15,2	14,8			19,3		
In stock		✓	✓	✓	✓	✓	✓	✓
Material no.		10017456	10017457	10017458	10017459	10017460	10017461	10017462
Spindle nose	DU	AP140		AP170			AP220	
Total length [mm]	I	132		115				
Outer Ø [mm]	AW	176		180			230	
Weight [kg]		15,4		13,2			18,9	
In stock		✓		✓			✓	
Material no.		10017463		10017464			10018433	

Clamping heads	Adaptations I.D. clamping	Alignment set	Accessory overview
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TOPlus premium pull-back size 100. Technical data



Size	100						
Variant	Pull-back						
Run-out with standard clamping head ≤ [mm]	0,010						
Run-out with premium clamping head ≤ [mm]	0,005						
Max. radial clamping force [kN]	172						
Max. axial drawtube force [pull / push] [kN]	65						
RPM n max. [1/min.]	4650						
Clamping range with standard clamping head [mm] A	15 – 100						
Clamping range with premium clamping head [mm] A	15 – 100						
Release stroke in Ø [mm] C	1,6						
Reserve stroke in Ø [mm] D	1,5						
Range / recommended workpiece tolerance [mm]	± 1,0						
End-stop depth [mm] E	72						
Ø Capacity [mm] BQ	102						
End-stop thread size [M] BG	12						
Location front end-stop F	Ø 183 f7						
Centering length [mm] G	20						
Bolt hole circle end-stop B	LK Ø 160 [3 x M8]						
Length [mm] H	64						
Reserve stroke axial [mm] Q	3						
Release stroke axial [mm] R	5						
Spindle nose DU	A2-5	A2-6		A2-8		A2-11	
Total length [mm] I	160	164	170	162	180	195	
Outer Ø [mm] AW	221						281
Weight [kg]	27	31		31,5		43	
In stock	✓	✓	✓	✓	✓	✓	✓
Material no.	10017465	10017466	10017467	10017468	10017469	10017470	10017471
Spindle nose DU	AP170				AP220		
Total length [mm] I	164				150		
Outer Ø [mm] AW	221				230		
Weight [kg]	28				26		
In stock	✓				✓		
Material no.	10017472				10017473		

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CHUCKS

TOPlus premium chuck

Multi spindles	Services	Clamping elements/ Accessories	Special solutions	Quick change- over systems	Measuring tech- nology/ Automation	Adaptation clamping devices	Stationary clamping devices	Mandrels	Chucks
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TOPlus

Six to win





Up to 25 % more clamping force and higher output – with the same draw force of the clamping cylinder that is used to actuate our SPANNTOP chucks. The pyramid arrangement of glide surfaces is what makes it possible. The clamping head rests with full-surface contact in the TOPlus chuck body – even with large workpiece tolerances. In addition this geometry ensures that TOPlus is significantly less sensitive to contamination than previous chuck/clamping head solutions, and it offers a concentric precision of approx. 0.015 mm [for chuck size 65]! Thus TOPlus is even better suited for raw material, cast and forged parts, as well as fine-particle non-ferrous metals such as brass. Therefore, the optimized values make the chuck an ideal partner for modern manufacturing strategies and state-of-the-art machine tools.

TOPlus – simply revolutionary!

Key advantages

- 25 % higher holding power than SPANNTOP
- Unequalled rigidity due to full-surface contact of the clamping segments
- 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 compared to 3-jaw chucks



TOPlus combi pull-back chuck in use



TOPlus chuck types

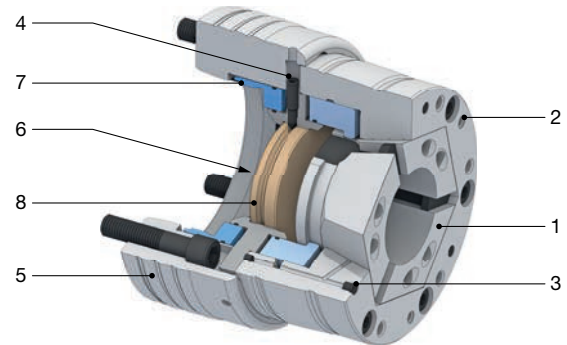
	TOPlus combi pull-back	TOPlus combi deadlength	TOPlus modular
			
Description	Workpiece clamping with pull-back effect. Chuck with dismountable end-stop plate. Without end-stop plate ideal for machining pipes and bars.	Workpiece clamping without pull-back effect. Chuck with dismountable end-stop plate. It is also frequently used on the sub spindle.	Through-bore chuck only – ideal for machining pipes and bars.
Advantages	■ 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 plate is removed	■ Workpiece clamping without axial movement of the clamping head ■ Clamps workpieces with a 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 plate is removed	■ 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
Clamping elements	 Clamping head SE	 Clamping head SE	 Clamping head SE
Adaptations	 MANDO Adapt T211 SE [Mandrel-in-clamping-device, with draw bolt]  MANDO Adapt T212 SE [Mandrel-in-clamping-device, without draw bolt]  Jaw module SE [Adaptation for jaw clamping]  Face driver SE / Morse taper adapter SE [Adaptation for clamping between centers]  Magnet module SE [Adaptation for magnetic clamping]		 MANDO Adapt T211 SE [Mandrel-in-clamping-device, with draw bolt]  MANDO Adapt T212 SE [Mandrel-in-clamping-device, without draw bolt]  Jaw module SE [Adaptation for jaw clamping]  Face driver SE / Morse taper adapter SE [Adaptation for clamping between centers]  Magnet module SE [Adaptation for magnetic clamping]



TOPlus combi pull-back in detail

Designation

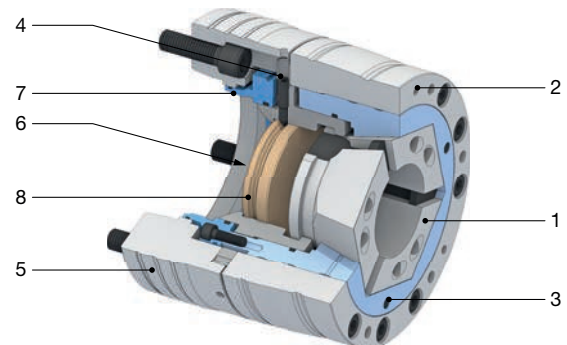
- 1 Vulcanized clamping head with pull-back and hexagonal geometry for optimum chuck sealing and improved clamping force
- 2 Mounting threads for front end-stop
- 3 Grease nipple, optimal holding power due to efficient lubrication
- 4 Clamping screw for base end-stop, easy mounting through external actuation
- 5 Spindle flange
- 6 Full chuck through-bore for bar work after disassembling the base end-stop
- 7 Mounting thread for drawtube connection
- 8 Fixed base end-stop for clamping with pull-back effect, central mounting thread for workpiece specific end-stop



TOPlus combi deadlength in detail

Designation

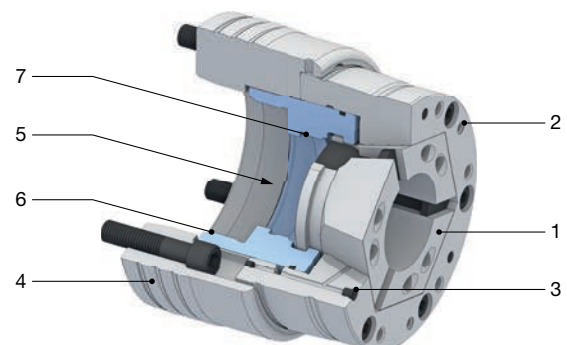
- 1 Vulcanized standing clamping head with hexagonal geometry for improved chuck sealant and higher clamping force
- 2 Mounting threads for front end-stop
- 3 Grease nipple, optimal holding power due to efficient lubrication
- 4 Clamping screw for base end-stop, easy mounting through external actuation
- 5 Spindle flange
- 6 Full chuck through-bore for bar work after disassembling the base end-stop
- 7 Mounting thread for drawtube connection
- 8 Fixed base end-stop with central mounting thread for workpiece specific end-stop



TOPlus modular in detail

Designation

- 1 Vulcanized clamping head with pull-back and hexagonal geometry for optimum chuck sealing and improved clamping force
- 2 Mounting threads for front end-stop
- 3 Grease nipple, optimal holding power due to efficient lubrication
- 4 Spindle flange
- 5 Full chuck passage for bar work
- 6 Mounting thread for drawtube connection
- 7 Mounting thread for guide rings, introduction, spring ejectors, etc.





Order overview. TOPlus chuck

					Clamping elements and adaptations					
Size	Variant	Spindle nose	Material no.	In stock	 Clamping head SE	 MANDO Adapt T211 SE	 MANDO Adapt T212 SE	 Jaw module SE	 Face driver / morse taper adapter SE	 Magnet module SE
					Page 422	Page 274	Page 280	Page 316	Page 324	Page 332
52	Combi pull-back	A2-5	10001926	-						
		A2-6	10001927	-						
		AP120	10001928	-	✓	✓	✓		✓	✓
		AP140	10001929	-						
	Combi deadlength	A2-5	10001945	-						
		A2-6	10001946	-						
		AP120	10001947	-	✓					
		AP140	10001948	-						
	Modular	A2-5	10001913	-						
		A2-6	10001914	-						
		AP120	10001915	-	✓	✓	✓		✓	✓
		AP140	10001916	-						
65	Combi pull-back	A2-5	10001920	-						
		A2-6	10001921	-						
		A2-8	10001922	-						
		AP120	10001923	-	✓	✓	✓	✓	✓	✓
		AP140	10001924	-						
		AP170	10001925	-						
	Combi deadlength	A2-5	10001936	-						
		A2-6	10001937	-						
		A2-8	10001938	-	✓					
		AP140	10001939	-						
		AP170	10001940	-						
	Modular	A2-5	10001907	-						
		A2-6	10001908	-						
		A2-8	10001909	-						
		AP120	10001910	-	✓	✓	✓	✓	✓	✓
		AP140	10001911	-						
		AP170	10001912	-						
100	Combi pull-back	A2-6	10001930	-						
		A2-8	10001931	-						
		A2-11	10001935	-	✓	✓	✓	✓	✓	✓
		AP170	10001932	-						
		AP220	10001933	-						
	Combi deadlength	A2-6	10001941	-						
		A2-8	10001942	-	✓					
		AP170	10001943	-						
		AP220	10001944	-						
	Modular	A2-8	10001917	-						
		AP170	10001918	-	✓	✓	✓	✓	✓	✓
		AP220	10001919	-						

Detailed technical data follows.

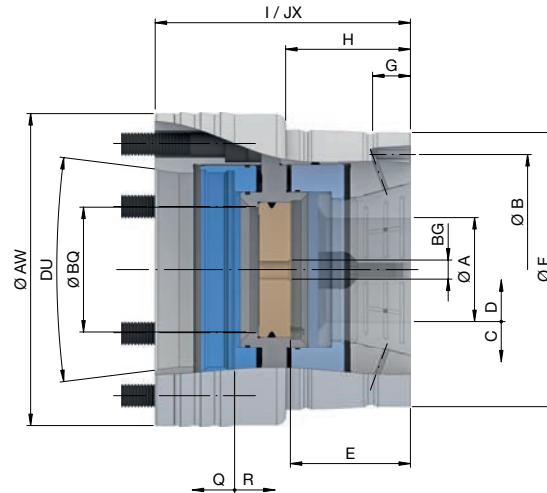
For more connection data please visit www.hainbuch.com

Scope of delivery

- Chuck
- Base end-stop [depending on the variant]
- Chip protection cover



TOPlus combi pull-back size 52. Technical data



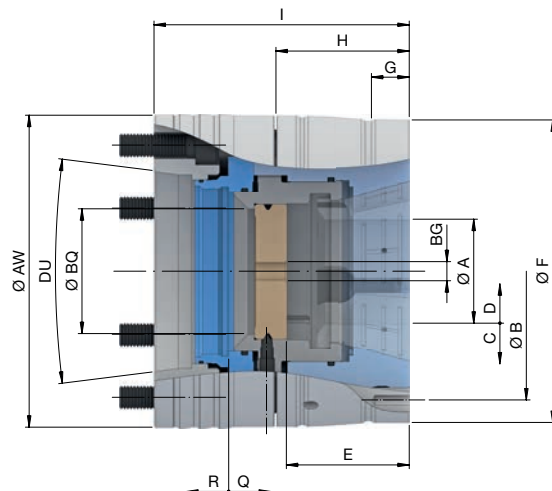
Size	52				
Variant	Combi pull-back				
Spindle nose	DU	A2-5	A2-6	AP120	AP140
Run-out ≤ [mm]				0,010	
Max. radial clamping force [kN]				108	
Max. axial drawtube force [pull / push] [kN]				40	
RPM n max. [1/min.]				7000	
Clamping range [mm]	A			3 – 52	
Release stroke in Ø [mm]	C			0,6	
Reserve stroke in Ø [mm]	D			1	
Range / recommended workpiece tolerance [mm]				± 0,5	
End-stop depth [mm]	E			56,5	
Ø Capacity [mm]	BQ			53	
End-stop thread size [M]	BG			10	
Location front end-stop	F			Ø 125 f7	
Centering length [mm]	G			17	
Bolt hole circle end-stop	B			LK Ø 107 [3 x M6]	
Length [mm]	H			59	
Total length [mm]	I	122			115
Total length with guard plate [mm]	JX	125			118
Reserve stroke axial [mm]	Q			2	
Release stroke axial [mm]	R			2,5	
Outer Ø [mm]	AW	144	165	144	150
Weight [kg]		10	12	9	10
In stock		-	-	-	-
Material no.		10001926	10001927	10001928	10001929

Machine spindle standard DIN 55026.
Total length can be extended via flange.

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TOPlus combi deadlength size 52. Technical data



Size	52			
Variant	Combi deadlength			
Spindle nose	DU	A2-5	A2-6	AP120
Run-out ≤ [mm]				0,020
Max. radial clamping force [kN]				108
Max. axial compression force [kN]				40
RPM n max. [1/min.]				7000
Clamping range [mm]	A			3 – 52
Release stroke in Ø [mm]	C			0,6
Reserve stroke in Ø [mm]	D			1
Range / recommended workpiece tolerance [mm]				± 0,5
End-stop depth [mm]	E			54,8
Ø Capacity [mm]	BQ			53
End-stop thread size [M]	BG			10
Location front end-stop	F			Ø 140 f7
Centering length [mm]	G			17
Bolt hole circle end-stop	B			LK Ø 122 [3 x M6]
Length [mm]	H			61,5
Total length [mm]	I	120		110
Reserve stroke axial [mm]	Q			2
Release stroke axial [mm]	R			2,5
Outer Ø [mm]	AW	145	162	145
Weight [kg]		11	12	10
In stock		-	-	-
Material no.		10001945	10001946	10001947

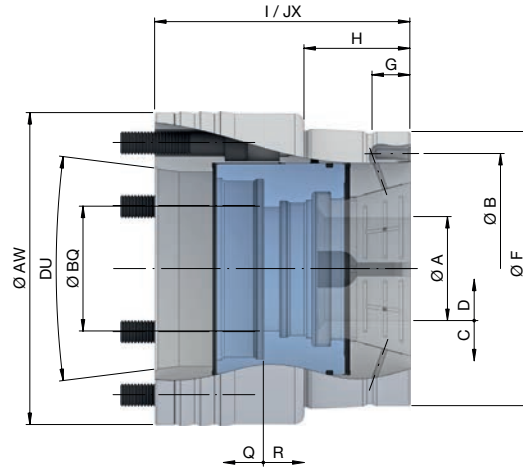
Machine spindle standard DIN 55026.

Total length can be extended via flange.

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TOPlus modular size 52. Technical data



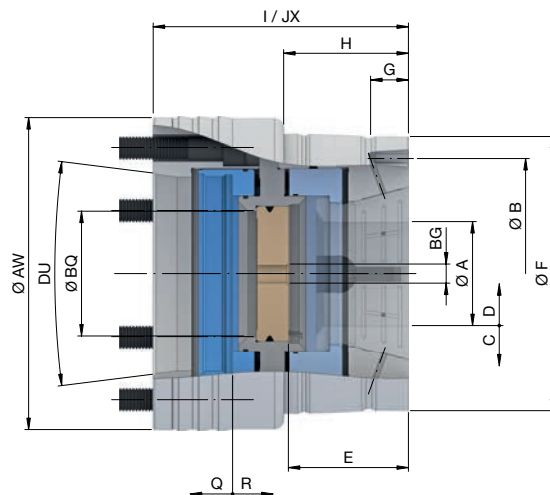
Size	52				
Variant	Modular				
Spindle nose	DU	A2-5	A2-6	AP120	AP140
Run-out ≤ [mm]				0,010	
Max. radial clamping force [kN]				108	
Max. axial drawtube force [pull / push] [kN]				40	
RPM n max. [1/min.]				7000	
Clamping range [mm]	A			3 – 52	
Release stroke in Ø [mm]	C			0,6	
Reserve stroke in Ø [mm]	D			1	
Range / recommended workpiece tolerance [mm]				± 0,5	
Ø Capacity [mm]	BQ			53	
Location front end-stop	F			Ø 125 f7	
Centering length [mm]	G			17	
Bolt hole circle end-stop	B			LK Ø 107 [3 x M6]	
Length [mm]	H			49	
Total length [mm]	I	112			105
Total length with guard plate [mm]	JX	115			108
Reserve stroke axial [mm]	Q			2	
Release stroke axial [mm]	R			2,5	
Outer Ø [mm]	AW	144	165	144	150
Weight [kg]		9	11	9	
In stock		-	-	-	-
Material no.		10001913	10001914	10001915	10001916

Machine spindle standard DIN 55026.
Total length can be extended via flange.

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TOPlus combi pull-back size 65. Technical data



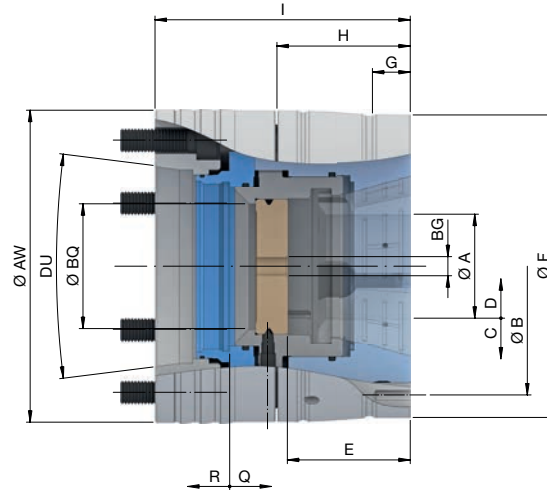
Size	65						
Variant	Combi pull-back						
Spindle nose	DU	A2-5	A2-6	A2-8	AP120	AP140	AP170
Run-out ≤ [mm]		0,010					
Max. radial clamping force [kN]		120					
Max. axial drawtube force [pull / push] [kN]		45					
RPM n max. [1/min.]		6000					
Clamping range [mm]	A	3 – 65					
Release stroke in Ø [mm]	C	0,6					
Reserve stroke in Ø [mm]	D	1					
Range / recommended workpiece tolerance [mm]		± 0,5					
End-stop depth [mm]	E	63,5					
Ø Capacity [mm]	BQ	66					
End-stop thread size [M]	BG	12					
Location front end-stop	F	Ø 145 f7					
Centering length [mm]	G	20					
Bolt hole circle end-stop	B	LK Ø 126 [3 x M6]					
Length [mm]	H	66					
Total length [mm]	I	131	130	131	120		115
Total length with guard plate [mm]	JX	134	133	134	123		118
Reserve stroke axial [mm]	Q	2					
Release stroke axial [mm]	R	2,5					
Outer Ø [mm]	AW	160	165	210	160		184
Weight [kg]		14	12	18	12	13	12
In stock		-	-	-	-	-	-
Material no.		10001920	10001921	10001922	10001923	10001924	10001925

Machine spindle standard DIN 55026.
Total length can be extended via flange.

Clamping heads	Adaptations I.D. clamping	Adaptations jaw clamping	Face driver / morse taper	Magnet module	Alignment set	Accessory overview
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TOPlus combi deadlength size 65. Technical data



Size	65					
Variant	Combi deadlength					
Spindle nose	DU	A2-5	A2-6	A2-8	AP140	AP170
Run-out ≤ [mm]				0,020		
Max. radial clamping force [kN]				120		
Max. axial compression force [kN]				45		
RPM n max. [1/min.]				6000		
Clamping range [mm]	A			3 – 65		
Release stroke in Ø [mm]	C			0,6		
Reserve stroke in Ø [mm]	D			1		
Range / recommended workpiece tolerance [mm]				± 0,5		
End-stop depth [mm]	E			65		
Ø Capacity [mm]	BQ			66		
End-stop thread size [M]	BG			12		
Location front end-stop	F			Ø 160 f7		
Centering length [mm]	G			17		
Bolt hole circle end-stop	B			LK Ø 141 [3 x M6]		
Length [mm]	H			71,5		
Total length [mm]	I		135			125
Reserve stroke axial [mm]	Q			2		
Release stroke axial [mm]	R			2,5		
Outer Ø [mm]	AW	165		210	165	180
Weight [kg]		16		21	16	
In stock		-	-	-	-	-
Material no.		10001936	10001937	10001938	10001939	10001940

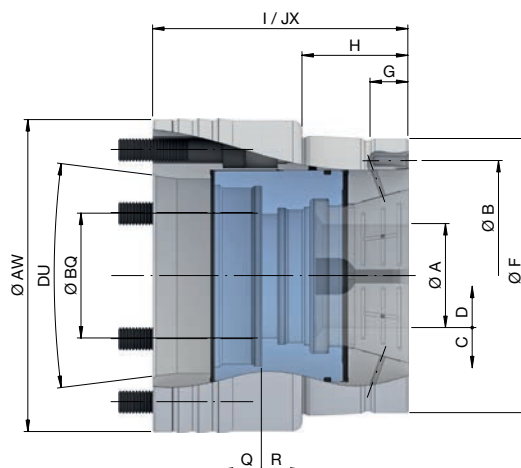
Machine spindle standard DIN 55026.
Total length can be extended via flange.



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TOPlus modular size 65. Technical data



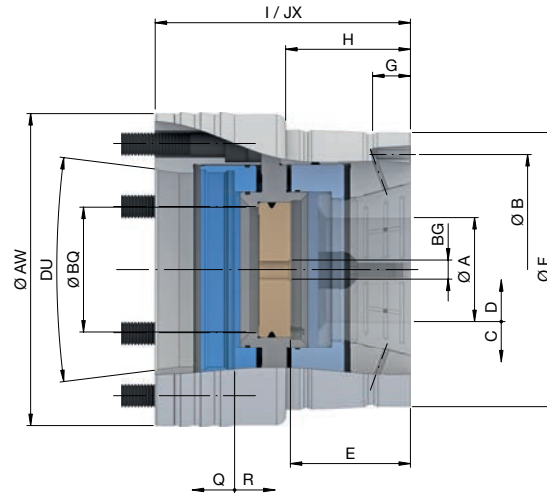
Size	65						
Variant	Modular						
Spindle nose	DU	A2-5	A2-6	A2-8	AP120	AP140	AP170
Run-out ≤ [mm]		0,010					
Max. radial clamping force [kN]		120					
Max. axial drawtube force [pull / push] [kN]		45					
RPM n max. [1/min.]		6000					
Clamping range [mm]	A	3 – 65					
Release stroke in Ø [mm]	C	0,6					
Reserve stroke in Ø [mm]	D	1					
Range / recommended workpiece tolerance [mm]		± 0,5					
Ø Capacity [mm]	BQ	66					
Location front end-stop	F	Ø 145 f7					
Centering length [mm]	G	20					
Bolt hole circle end-stop	B	LK Ø 126 [3 x M6]					
Length [mm]	H	56					
Total length [mm]	I	121	120	121	110		105
Total length with guard plate [mm]	JX	124	123	124	113		108
Reserve stroke axial [mm]	Q	2					
Release stroke axial [mm]	R	2,5					
Outer Ø [mm]	AW	160	165	210	160		184
Weight [kg]		12		17	11		12
In stock		-	-	-	-	-	-
Material no.		10001907	10001908	10001909	10001910	10001911	10001912

Machine spindle standard DIN 55026.
Total length can be extended via flange.

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TOPlus combi pull-back size 100. Technical data



Size	100					
Variant	Combi pull-back					
Spindle nose	DU	A2-6	A2-8	A2-11	AP170	AP220
Run-out ≤ [mm]				0,015		
Max. radial clamping force [kN]				172		
Max. axial drawtube force [pull / push] [kN]				65		
RPM n max. [1/min.]				5000		
Clamping range [mm]	A			15 – 100		
Release stroke in Ø [mm]	C	1,6		2	1,6	
Reserve stroke in Ø [mm]	D			1,5		
Range / recommended workpiece tolerance [mm]				± 1,0		
End-stop depth [mm]	E			73		
Ø Capacity [mm]	BQ			101		
End-stop thread size [M]	BG			12		
Location front end-stop	F			Ø 215 f7		
Centering length [mm]	G			23		
Bolt hole circle end-stop	B			LK Ø 180 [3 x M8]		
Length [mm]	H			78,5		
Total length [mm]	I	155	159	165	159	
Total length with guard plate [mm]	JX	159	163	169	163	
Reserve stroke axial [mm]	Q			3		
Release stroke axial [mm]	R			5		
Outer Ø [mm]	AW	235		280	235	240
Weight [kg]		33	32	42	32	35
In stock		-	-	-	-	-
Material no.		10001930	10001931	10001935	10001932	10001933

Machine spindle standard DIN 55026.
Total length can be extended via flange.

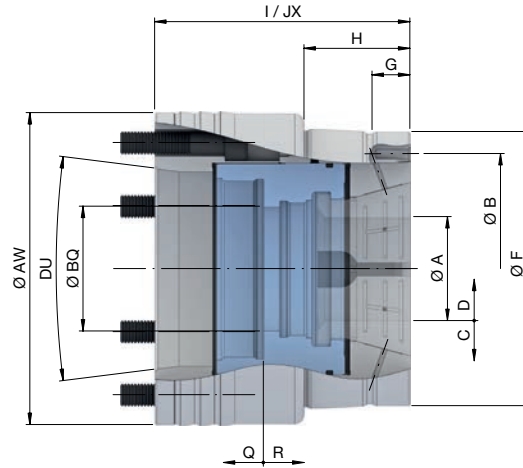
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Machine spindle standard DIN 55026.
Total length can be extended via flange.





TOPlus modular size 100. Technical data



Size	100			
Variant	Modular			
Spindle nose	DU	A2-8	AP170	AP220
Run-out ≤ [mm]			0,015	
Max. radial clamping force [kN]			172	
Max. axial drawtube force [pull / push] [kN]			65	
RPM n max. [1/min.]			5000	
Clamping range [mm]	A		15 – 100	
Release stroke in Ø [mm]	C		2	
Reserve stroke in Ø [mm]	D		1,5	
Range / recommended workpiece tolerance [mm]			± 1,0	
Ø Capacity [mm]	BQ		104,5	
Location front end-stop	F		Ø 215 f7	
Centering length [mm]	G		23	
Bolt hole circle end-stop	B		LK Ø 180 [3 x M8]	
Length [mm]	H		68,5	
Total length [mm]	I		149	
Total length with guard plate [mm]	JX		153	
Reserve stroke axial [mm]	Q		3	
Release stroke axial [mm]	R		5	
Outer Ø [mm]	AW	235		240
Weight [kg]		28	31	30
In stock		-	-	-
Material no.		10001917	10001918	10001919

Machine spindle standard DIN 55026.
Total length can be extended via flange.



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