

# Micro

**The Albrecht Micro.  
Made for the  
smallest and finest  
surfaces. Range  
1 - 6 Millimeter.**

ALBRECHT  
GERMANY

Ideal for microtools.  
Clamping range 1 - 6 mm.  
Peripheral or internal cooling.  
Significantly better dampening  
in comparison to Shrink Chucks.  
Slim shape D1=13,5 mm.  
Perfect runout  $\leq 3 \mu\text{m}$  2,5xD.  
Up to 40.000 1/min  $\leq 1 \text{ gmm}$ .

For the finest surfaces even for  
difficulty accessible areas.  
Special coated collets.  
Maintenance-free.  
The Albrecht Micro.  
None is more fine.

# Micro Chuck-Extension

For extension of Precision Chucks.  
Very slim design for operation areas which are not easy to access. High gripping torque and accuracy due to slow angle taper.



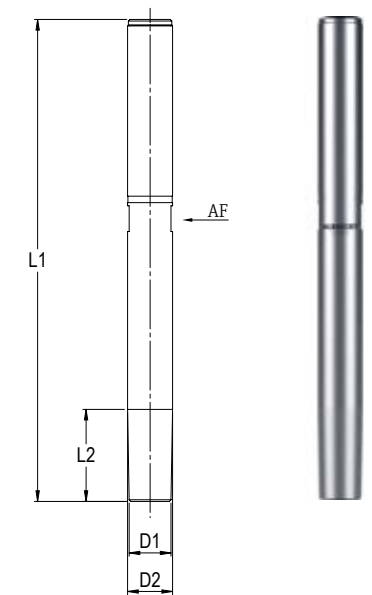
## Micro Precision-Chuck-Extension with Cylindrical Shank.

Easy exchange of tools by setting of hex-key (included in delivery). Maintenance free. Sealed against coolant and contamination. Slow collet taper angle. Collet with special coating (see page 65). Clamping of tool shanks according to DIN 1835 A, B and DIN 6535 HB, HA. Tolerance of shank h6. System-Runout-Accuracy 8 µm at 2,5 x D.

### Cylindrical shank 14 mm

1 – 6 mm

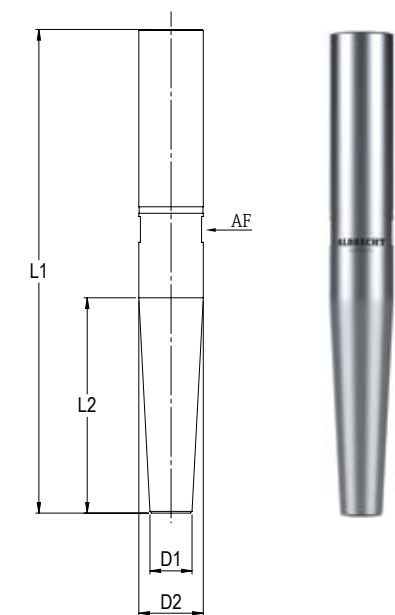
L1	Part.No.	Coolant	L2	D1	D2	AF	kg
100	310 1006 814 1	Central	29	13	14	13	0,16
150	310 2006 814 1	Central	29	13	14	13	0,10



### Cylindrical shank 20 mm

1 – 6 mm

L1	Part.No.	Coolant	L2	D1	D2	AF	kg
100	310 1006 820 1	Central	45	13	20	13	0,17
150	310 2006 820 1	Central	67	13	20	19	0,30

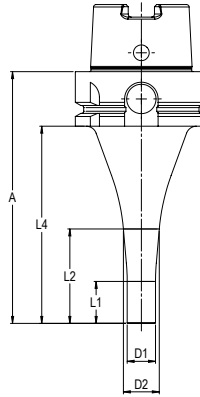




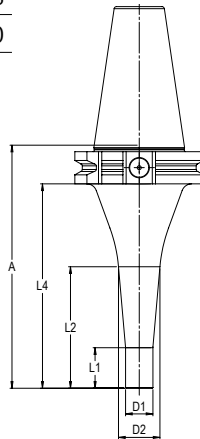
# HSK

## Micro Precision Chuck, ISO 12164 (DIN 69893)

Easy exchange of tools by setting of hex-key (included in delivery). Maintenance free. Sealed against coolant and contamination. Slow collet taper angle. Collet with special coating (see page 65). System-Runout-Accuracy 3 µm at 2,5 x D. Clamping of tool shanks according to DIN 1835 A, B and DIN 6535 HB, HA. Coolant tubes see page 83.



HSK 40-A		1 – 6 mm								
A	Part.No.	Form	L1	L2	L4	D1	D2	Balanced	kg	
75	310 1006 640 1	A	20	35	55	13,5	16	<1gmm	0,3	
HSK 40-E										
75	310 10E6 640 1	E	20	35	55	13,5	16	<1gmm	0,3	
HSK 50-A										
85	310 1006 650 1	A	20	34	59	13,5	16	<1gmm	0,5	
120	310 2006 650 1	A	20	45	94	13,5	18	<1gmm	0,7	
HSK 50-E										
85	310 10E6 650 1	E	20	40	59	13,5	17	<1gmm	0,5	
120	310 20E6 650 1	E	20	45	94	13,5	18	<1gmm	0,7	
HSK 63-A										
90	310 1006 663 1	A	20	30	64	13,5	15	20.000 G=2,5	0,8	
120	310 2006 663 1	A	20	45	94	13,5	17	20.000 G=2,5	1,0	
160	310 3006 663 1	A	20	70	134	13,5	22	20.000 G=2,5	1,2	
HSK 63-F										
90	310 10F6 663 1	F	20	30	64	13,5	15	20.000 G=2,5	0,8	
120	310 20F6 663 1	F	20	45	94	13,5	17	20.000 G=2,5	1,0	



# SK

## Micro Precision Chuck, ISO 7388-1 (DIN 69871)

Easy exchange of tools by setting of hex-key (included in delivery). Maintenance free. Sealed against coolant and contamination. Slow collet taper angle. Collet with special coating (see page 65). System-Runout-Accuracy 3 µm at 2,5 x D. Clamping of tool shanks according to DIN 1835 A, B and DIN 6535 HB, HA.

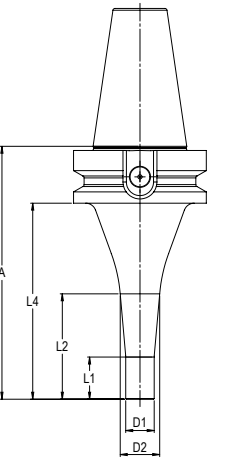
SK 30		1 – 6 mm								
A	Part.No.	Form	L1	L2	L4	D1	D2	Balanced	kg	
75	310 2006 230 1	A/AD	20	32	56	13,5	16	<1gmm	0,5	
SK 40										
90	310 1006 240 1	A/AD	20	38	71	13,5	17	20.000 G=2,5	1,0	
120	310 2006 240 1	A/AD	20	60	101	13,5	21	20.000 G=2,5	1,2	
160	310 3006 240 1	A/AD	20	75	141	13,5	23	20.000 G=2,5	1,2	



# MAS-BT

## Micro Precision Chuck, ISO 7388-2 (JIS B 6339)

Easy exchange of tools by setting of hex-key (included in delivery). Maintenance free. Sealed against coolant and contamination. Slow collet taper angle. Collet with special coating (see page 65). System-Runout-Accuracy 3 µm at 2,5 x D. Clamping of tool shanks according to DIN 1835 A, B and DIN 6535 HB, HA.



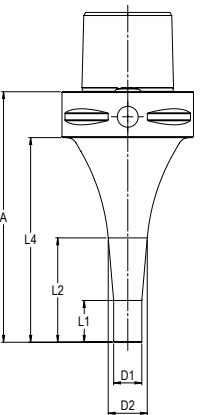
BT 30		1 – 6 mm								
A	Part.No.	Form	L1	L2	L4	D1	D2	Balanced	kg	
75	310 2006 430 1	A/AD	20	30	53	13,5	15	<1gmm	0,5	
BT 40										
90	310 1006 440 1	A/AD	20	30	63	13,5	15	20.000 G=2,5	1,2	
120	310 2006 440 1	A/AD	20	50	93	13,5	19	20.000 G=2,5	1,3	
160	310 3006 440 1	A/AD	20	70	133	13,5	22	20.000 G=2,5	1,3	



# Polygon

## Micro Precision Chuck, DIN ISO 26623-1

Easy exchange of tools by setting of hex-key (included in delivery). Maintenance free. Sealed against coolant and contamination. Slow collet taper angle. Collet with special coating (see page 65). System-Runout-Accuracy 3 µm at 2,5 x D. Clamping of tool shanks according to DIN 1835 A, B and DIN 6535 HB, HA.



PSC 40		1 – 6 mm								
A	Part.No.	Form	L1	L2	L4	D1	D2	Balanced	kg	
75	310 1006 9C4 1	A	20	35	55	13,5	16	<1gmm	0,3	
PSC 63										
90	310 1006 9C6 1	A	20	30	68	13,5	15	20.000 G=2,5	1,0	
120	310 2006 9C6 1	A	20	50	98	13,5	19	20.000 G=2,5	1,1	





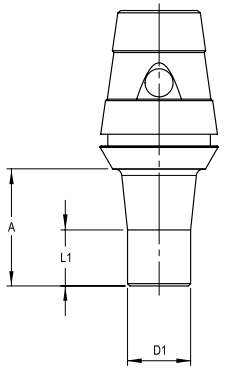
# Micro ER-Chuck

Increases the access of driven tooling.



## Micro ER-Precision-Chuck, for Collet-Chucks according to DIN ISO 15488

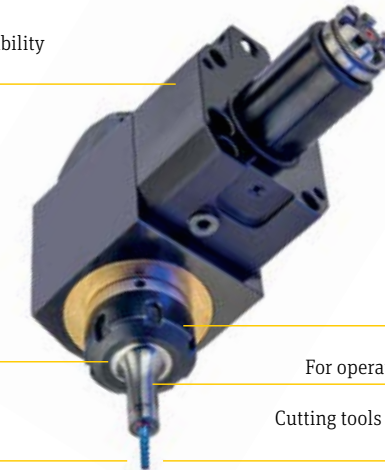
Easy exchange of tools by using a hex-key (included in delivery). Maintenance-free. Sealed against coolant and particles. Slow collet taper angle. Collet with special coating (see page 65). System-Runout-Accuracy 3 µm at 2,5 x D. Clamping of tool shanks according to DIN 1835 A, B and DIN 6535 HB, HA.



High chip removal and process-reliability with driven tooling

High-speed balanced

Coolant directed to cutting tool



Compatible with common ER-nuts expect ER 16

For operation areas with difficult access.

Cutting tools supported over greater length, more rigidity and dampening.

### ER 16

1 – 6 mm

A	Part.No.	L1	D1	Balanced	kg
35	310 1006 316 1*	35	13,5	by design	0,1

#### Special clamping nuts

Typ	Part.No.	D	L	Thread	Key
standard	138 0310 316 0	28	17,5	M22x1,5	SW 25
mini	138 0311 316 0	22	17	M19x1	E16 Zeta
internal	138 0312 316 0	M24x1	6,5	-	E16 Zeta

\*only use in combination with special clamping nut, based on DIN 6499

### ER 20

1 – 6 mm

A	Part.No.	L1	D1	Balanced	kg
28	310 1006 320 1	28	13,5	by design	0,1
35	310 2006 320 1	35	13,5	by design	0,1

### ER 25

1 – 6 mm

A	Part.No.	L1	D1	Balanced	kg
25	310 1006 325 1	12	13,5	by design	0,1
40	310 2006 325 1	15	13,5	by design	0,1
50	310 3006 325 1	20	13,5	by design	0,1

### ER 32

1 – 6 mm

A	Part.No.	L1	D1	Balanced	kg
25	310 1006 332 1	12	13,5	by design	0,2
40	310 2006 332 1	15	13,5	by design	0,2
50	310 3006 332 1	20	13,5	by design	0,2





# Collets and Accessories



**Collets Peripheral Coolant.** Additional cooling and rinsing effect. Increases the safety of processing. Special Coating. Maintenance free. Clamping of tool shanks corresponding to DIN 1835A, B and DIN 6335 HB, HA.

1 – 6 mm

D	Part.No.	Coolant	kg
1,0	136 0601 000 0	Periphery	0,02
2,0	136 0602 000 0	Periphery	0,02
2,5	136 0602 500 0	Periphery	0,02
2,8	136 0602 800 0	Periphery	0,02
3,0	136 0603 000 0	Periphery	0,02
3,5	136 0603 500 0	Periphery	0,02
4,0	136 0604 000 0	Periphery	0,02
4,5	136 0604 500 0	Periphery	0,02
5,0	136 0605 000 0	Periphery	0,02
6,0	136 0606 000 0	Periphery	0,02

special size and inch diameter on request

**Collets Internal Coolant.** 100% leak proof up to 100 bar coolant pressure. Special Coating. Maintenance free. Clamping of tool shanks corresponding to DIN 1835A, B and DIN 6335 HB, HA.

1 – 6 mm

D	Part.No.	Coolant	kg
1,0	136 0601 000 T	Central	0,02
2,0	136 0602 000 T	Central	0,02
2,5	136 0602 500 T	Central	0,02
2,8	136 0602 800 T	Central	0,02
3,0	136 0603 000 T	Central	0,02
3,5	136 0603 500 T	Central	0,02
4,0	136 0604 000 T	Central	0,02
4,5	136 0604 500 T	Central	0,02
5,0	136 0605 000 T	Central	0,02
6,0	136 0606 000 T	Central	0,02

special size and inch diameter on request

Torque Key	Blade lenght	Part.No.
3,0 - 5,4 Nm	113	139 0005 900 0
3,0 - 5,4 Nm	160	139 0005 900 2*

\* for Part.No.: 310 3006 240 1 and 310 3006 440 1

Taper Wiper	Part.No.
for Micro	139 0000 GRO 0
Replacement papers, 25 pcs.	139 0000 GRO 2

Pull Stud	Part.No.	Thread	through-hole	Angle	Neck- Ø	kg
SK30	138 0004 230 0	M12	Ø4	15°	9	0,03
BT30	138 0004 430 0	M12	Ø4	45°	8	0,04
BT40	138 0004 440 0	M16	Ø4	45°	10	0,04

based on DIN



# XXL Chuck Extension

The extension for all Albrecht APC chucks. Slim and long. The solution for all difficult to access processing zones. Safe transmission of clamping force and torque. For drilling, tapping, sinking, reaming, etc.

Internal coolant supply.

Run-out < 0.05 mm. Drilled through for coolant supply.



## Cylindrical shank 12 mm 3,0 - 6,0 mm

L	Part.No.	Coolant	D	kg
150	340 0615 812 0	Central	12	0,10
250	340 0625 812 0	Central	12	0,17
355	340 0635 812 0	Central	12	0,24

## Cylindrical shank 16 mm 6,0 - 8,0 mm

L	Part.No.	Coolant	D	kg
150	340 0815 816 0	Central	16	0,15
250	340 0825 816 0	Central	16	0,28
350	340 0835 816 0	Central	16	0,40

## Cylindrical shank 18 mm 8,0 - 10,0 mm

L	Part.No.	Coolant	D	kg
150	340 1015 818 0	Central	18	0,19
250	340 1025 818 0	Central	18	0,36
350	340 1035 818 0	Central	18	0,53

## Cylindrical shank 20 mm 11,0 - 12,0 mm

L	Part.No.	Coolant	D	kg
150	340 1215 820 0*	Central	20	0,27
250	340 1225 820 0*	Central	20	0,50
350	340 1235 820 0*	Central	20	0,73

\* with active face (AF9), only suitable for tapping

# Collets

## For Cylindrical shank 12 mm

**3,0 - 6,0 mm**

D	Part.No.	AF	kg
3	146 1203 000 0	9	0,02
4	146 1204 000 0	9	0,02
5	146 1205 000 0	9	0,02
6	146 1206 000 0	9	0,02

## For Cylindrical shank 16 mm

**6,0 - 8,0 mm**

D	Part.No.	AF	kg
6	146 1606 000 0	12	0,02
7	146 1607 000 0	12	0,02
8	146 1608 000 0	12	0,02

## For Cylindrical shank 18 mm

**8,0 - 10,0 mm**

D	Part.No.	AF	kg
8	146 1808 000 0	14	0,04
9	146 1809 000 0	14	0,04
10	146 1810 000 0	14	0,04

## For Cylindrical shank 20 mm

**11,0 - 12,0 mm**

D	Part.No.	AF	kg
11	146 2011 000 0	16	0,05
12	146 2012 000 0	16	0,05

special size and sealed for tools with internal coolant supply on request



# Accessories

## XXL-Wrench

For Cylindrical shank	Part.No.	AF
12	149 0000 934 1	9
16	149 0000 934 2	12
18	149 0000 934 3	14
20	149 0000 934 5	16





We reserve the right for changes in design due to technical improvements. Pictures and dimensions not binding.

Albrecht Germany  
Version 5 1/2023

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