

HAIMER®
Quality Wins.

MINI SHRINK HOLDERS

NEW
Product Expansion



www.haimer.com

*Mini Shrink,
the perfect solution for the requirements of micro machining.*

Features

- Extreme slim profile design
- 3° taper
- Highly accurate shrink fit technology
- Ideal for the HAIMER Power Clamp Nano shrink fit machine

Benefits

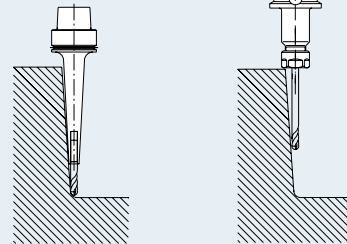
- Eliminate part interference
- Longer reach capability with shorter tool overhang
- Runout accuracy: < 0.00012" (3 μm)
- Highest balance, quality, and stability



3 Versions

- Extra slim version: extremely slim for fine machining and for long reach applications
- Standard version: with higher clamping forces
- Power version: Increased wall thickness and mass for greater rigidity

Eliminate excessive tool overhang!



HAIMER Mini Shrink Chucks Standard Chucks

Why Shrink Fit?

Features

- 360° Clamping, Multiple planes
- Precision bore, no wear components
- No mechanical moving parts
- Induction shrink technology
- Certified AT3 Taper
- No screws, nuts or threads

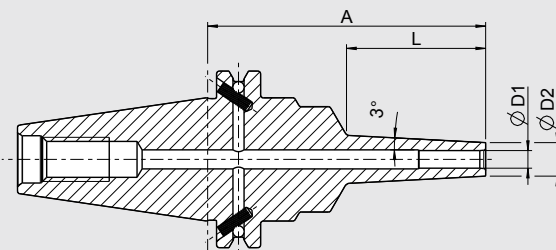
Benefits

- Highest gripping torque
- < 0.00012" (3 μm) runout
- Repeatable clamping
- Tool changes **less** than 5 seconds on average
- Carbide and HSS shrinkable
- Rigid interface
- Repeatable balance (G2.5@ 25,000 RPM)

POWER MINI SHRINK CHUCK CAT 40 · ASME B5.50



CERTIFICATE OF QUALITY	
<input checked="" type="checkbox"/>	Chuck body fine balanced G2.5 25,000 rpm or U < 1 gmm
<input checked="" type="checkbox"/>	All functional surfaces machined
<input checked="" type="checkbox"/>	Taper tolerance AT3
<input checked="" type="checkbox"/>	Coolant supply form ADB
<input checked="" type="checkbox"/>	T.I.R. < 0.00012" (3 μm)



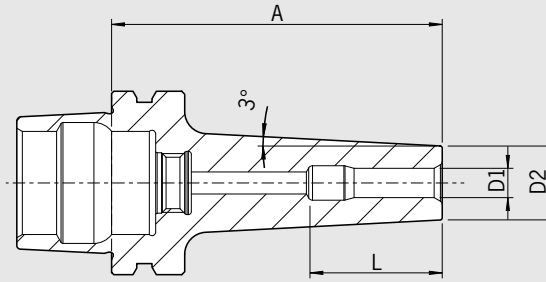
Power Mini Shrink Chuck is perfect for 5-axis-machining in the die & mold and medical industry. Very slim at the top like the HAIMER Mini Shrink Chucks, the Power Mini Shrink is reinforced at the base. This allows for efficient milling with an angled tool even at long protruding lengths.

- Extreme slim design
- No disturbing edges
- Runout accuracy: 3 μm Maximum
- Ideal for the HAIMER Power Clamp
- For all solid carbide tools with shank tolerance h6
- With 3° slope for dies and molds
- **Note: Shrinking only with shrink and cooling adapter**

INCH	Clamping Ø D1 [inch]	1/8"	3/16"	1/4"	3/8"	1/2"
	Ø D2 [inch]	0.35	0.43	0.47	0.63	0.81
	L [inch]	1.97	1.97	1.97	1.97	1.42
Gage length A [inch]		3.94	3.94	3.94	3.94	3.15
Order No.	40.889...	.1/8z.0002	.3/16z.0002	.1/4z.0001	.3/8z.0001	.1/2z.0001
Suitable Shrink and cooling sleeves						
Order No.	80.105.14...	.2.04	.2.05	.2.09	.2.11	-

METRIC	Clamping Ø D1 [mm]	04	06
	Ø D2 [mm]	12	10
	L [mm]	50	50
Gage length A [inch]		100	100
Order No.	40.889...	.04.8.1001	.06.8.1002 ¹⁾
Suitable Shrink and cooling sleeves			
Order No.	80.105.14...	.2.08	.2.09

1) With EDM slits



CERTIFICATE OF QUALITY	
<input checked="" type="checkbox"/>	Chuck body fine balanced G2.5 25,000 rpm or U < 1 gmm
<input checked="" type="checkbox"/>	All functional surfaces machined
<input checked="" type="checkbox"/>	More accurate than DIN
<input checked="" type="checkbox"/>	T.I.R. < 0.00012" (3 µm)

Low cutting forces at high RPM are typical in micro machining (die & mold, medical engineering, micro mechanical engineering). The slim and short design of the all new HSK-E25 series from HAIMER, who is well known for the HAIMER Mini Shrink tool holders, is perfectly suited for the requirements of micro machining.

- No disturbing edges
- Highest runout accuracy: <0.003 mm
- Ideal for the HAIMER Power Clamp Nano

Available as:
- Mini Shrink (Ø 3-12) in two different lengths

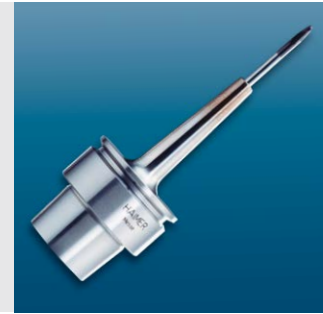
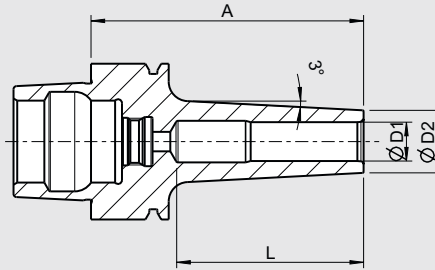
METRIC	Clamping Ø D1 [mm]		03	04	05	06	06	06	08	10	10	10	12
	Ø D2 [mm]		09	10	11	12	12	12	14	16	16	16	18
	Ø D3 [mm]		—	—	—	—	—	—	—	18	18	18	20
	L [mm] ultra short		15	18	23	27.5	—	—	27	26.5	—	—	26
	L [mm] standard		15	18	28	37.5	32.5	37.5	27	41.5	36.5	41.5	35.5
Gage length A [mm]	ultra short		35 ¹⁾	35 ¹⁾	35 ¹⁾	40 ¹⁾	—	—	40 ¹⁾	40 ¹⁾	—	—	40 ¹⁾
Order No.	E25.185...		.03	.04	.05	.06	—	—	.08	.10	—	—	.12
Gage length A [mm]	standard		45	45	45	45 ²⁾	45	50	50	50 ²⁾	50	55	50
Order No.	E25.180...		.03	.04	.05	.06	.06.V2	.06.V3	.08	.10	.10.V2	.10.V3	.12

1) Only shrinkable with Power Clamp Nano
2) Without thread for coolant tube

MINI SHRINK HSK-E 32/40/50 · DIN 69893-5 INCH

CERTIFICATE OF QUALITY

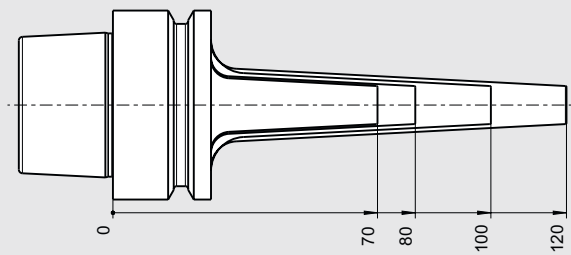
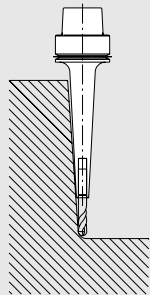
- Chuck body fine balanced
G2.5 25,000 rpm or U<1 gmm
- All functional surfaces machined
- More accurate than DIN
- T.I.R. < 0.00012" (3 µm)



- Extreme slim design
- No disturbing edges
- Runout accuracy: 3 µm Maximum
- Ideal for the HAIMER Power Clamp
- For all solid carbide tools with shank tolerance h6
- With 3° slope for dies and molds

- With high clamping force
- Tool holders fine balanced
- Delivery without coolant tube

Note: Shrinking only with shrink and cooling adapter



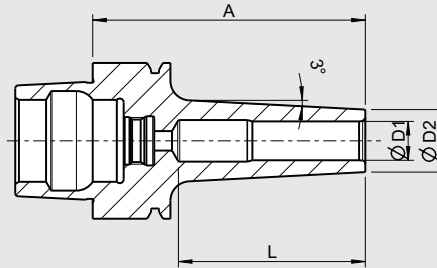
Gage length A: standard length steps



INCH	Clamping Ø D1 [inch]		1/8"	3/16"	1/4"	3/8"	1/2"
	Ø D2 Standard [inch]		0.35	0.43	0.47	0.63	0.71
HSK-E32							
Gage length A [inch]	ultra short		2.37	2.37	2.37	2.37	2.37
Gage length L [inch]	ultra short		-	1.69	1.69	1.65	1.63
Order No.	Standard	E32.185...	.1/8Z	.3/16Z	.1/4Z	.3/8Z	.1/2Z
Gage length A [inch]	short		2.76	2.76	2.76	2.76	2.76
Gage length L [inch]	ultra short		-	2.48	2.48	1.89	1.89
Order No.	Standard	E32.183...	.1/8Z	.3/16Z	.1/4Z	.3/8Z	.1/2Z
HSK-E40							
Gage length A [inch]	ultra short		2.37	2.37	2.37	2.37	2.37
Gage length L [inch]	ultra short		-	-	1.61	1.65	1.61
Order No.	Standard	E40.185...	.1/8Z	.3/16Z	.1/4Z	.3/8Z	.1/2Z
Gage length A [inch]	short		2.76	2.76	2.76	2.76	2.76
Gage length L [inch]	ultra short		-	-	2.01	1.89	1.89
Order No.	Standard	E40.180...	.1/8Z	.3/16Z	.1/4Z	.3/8Z	.1/2Z
HSK-E50							
	Ø D2 extra slim [inch]		0.24	0.31	0.35	0.51	0.59
Gage length A [inch]	short		2.76	2.76	2.76	2.76	2.76
Gage length L [inch]			-	-	-	1.89	1.89
Order No.	Standard	E50.180...	.1/8Z	.3/16Z	.1/4Z	.3/8Z	.1/2Z
Order No.	extra slim	E50.170...	.1/8Z	.3/16Z	.1/4Z	.3/8Z	.1/2Z
Gage length A [inch]	ZG100		3.94	3.94	3.94	3.94	3.94
Gage length L [inch]			-	-	-	1.89	1.89
Order No.	Standard	E50.181...		.3/16Z	.1/4Z	.3/8Z	.1/2Z
Order No.	extra slim	E50.171...	.1/8Z	.3/16Z	.1/4Z	.3/8Z	.1/2Z

NOTE:

It is imperative that the correct adapter be used for both heating and cooling with all "Mini Shrink" chucks, in order to prevent overheating of the chuck.



CERTIFICATE OF QUALITY	
<input checked="" type="checkbox"/>	Chuck body fine balanced G2.5 25,000 rpm or U<1 gmm
<input checked="" type="checkbox"/>	All functional surfaces machined
<input checked="" type="checkbox"/>	More accurate than DIN
<input checked="" type="checkbox"/>	T.I.R. < 0.00012" (3 μm)

HSK-E32

METRIC	Clamping Ø D1 [mm]		03	04	05	06	08	10	12
	Ø D2 Standard [mm]		09	10	11	12	14	16	18
Gage length A [mm]	ultra short		60	60	60	60	60	60	60
Gage length L [mm]			—	43	43	43	38	42	41.5
Order No.	Standard	E32.185...	.03	.04	.05	.06	.08	.10	.12
Gage length A [mm]	ZG80		80	80	80	80	80	80	80
Gage length L [mm]			—	63	63	63	38	48	48
Order No.	Standard	E32.183...	.03	.04	.05	.06	.08	.10	.12



HSK-E40

METRIC	Clamping Ø D1 [mm]		03	04	05	06	08	10	12
	Ø D2 Standard [mm]		09	10	11	12	14	16	18
	Ø D2 extra slim [mm]		06	07	08	09	11	13	15
Gage length A [mm]	ultra short		60	60	60	60	60	60	60
Gage length L [mm]			—	—	—	41	41	42	41.5
Order No.	Standard	E40.185...	.03	.04	.05	.06	.08	.10	.12
Order No.	extra slim	E40.175...	.03	.04	.05	.06	.08	.10	.12
Gage length A [mm]	short		70	70	70	70	70	70	70
Gage length L [mm]			—	—	—	51	51	48	48
Order No.	Standard	E40.180...	.03	.04	.05	.06	.08	.10	.12
Order No.	extra slim	E40.170...	.03	.04	.05	.06	.08	.10	.12
Gage length A [mm]	ZG80		80	80	80	80	80	80	80
Gage length L [mm]			—	—	—	61	61	48	48
Order No.	Standard	E40.183...	.03	.04	.05	.06	.08	.10	.12
Order No.	extra slim	E40.173...	.03	.04	.05	.06	.08	.10	.12

HSK-E50

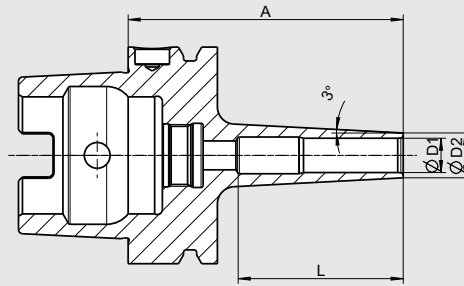
METRIC	Clamping Ø D1 [mm]		03	04	05	06	08	10	12
	Ø D2 Standard [mm]		09	10	11	12	14	16	18
	Ø D2 extra slim [mm]		06	07	08	09	11	13	15
Gage length A [mm]	short		70	70	70	70	70	70	70
Gage length L [mm]			—	—	—	—	—	48	48
Order No.	Standard	E50.180...	.03	.04	.05	.06	.08	.10	.12
Order No.	extra slim	E50.170...	.03	.04	.05	.06	.08	.10	.12
Gage length A [mm]	ZG80		80	80	80	80	80	80	80
Gage length L [mm]			—	—	—	—	—	48	48
Order No.	Standard	E50.183...	.03	.04	.05	.06	.08	.10	.12
Order No.	extra slim	E50.173...	.03	.04	.05	.06	.08	.10	.12
Gage length A [mm]	ZG100		—	—	100	100	100	100	100
Gage length L [mm]			—	—	—	—	—	48	48
Order No.	Standard	E50.181...			.05	.06	.08	.10	.12
Order No.	extra slim	E50.171...			.05	.06	.08	.10	.12

NOTE:

It is imperative that the correct adapter be used for both heating and cooling with all "Mini Shrink" chucks, in order to prevent overheating of the chuck.

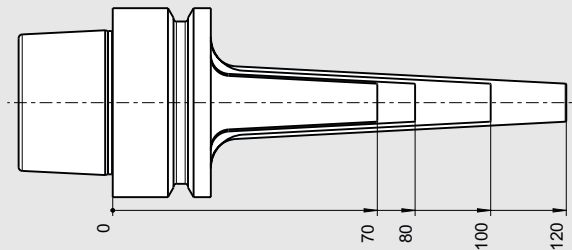
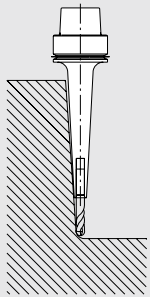
CERTIFICATE OF QUALITY

- Chuck fine balanced
G2.5 25.000 rpm or U<1 gmm
- All functional surfaces fine machined
- More accurate than DIN
- T.I.R. < 0.00012" (3 µm)



- Extreme slim design
- No disturbing edges
- Highest runout accuracy: 3 µm
- Optimum rigidity
- Ideal to shrink with the HAIMER Power Clamp
- For all solid carbide tools with shank tolerance h6
- With 3° slope for dies and molds

- **Extra slim version:** extremely slim for fine machining and long reach applications
- Tool holders fine balanced
- Delivery without coolant tube
- **Note: Shrinking only with shrink and cooling adapter**



Gage length A: standard length steps

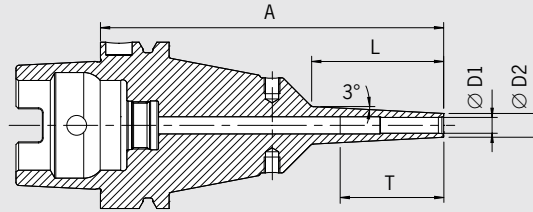


HSK-A63

METRIC	Clamping Ø D1 [mm]		06	08	10	12
	Ø D2 extra slim [mm]		09	11	13	15
	Ø L [mm]		—	—	48	48
Gage length A [mm]	ZG80		80	80	80	80
Order No.	extra slim	A63.173...	.06	.08	.10	.12
Gage length A [mm]	ZG120		120	120	120	120
Order No.	extra slim	A63.177...	.06	.08	.10	.12

NOTE:

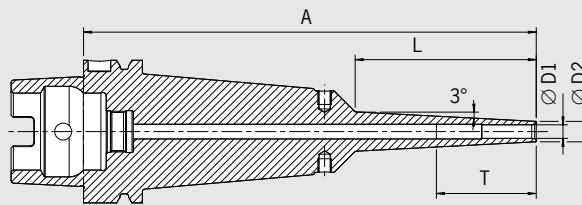
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CERTIFICATE OF QUALITY	
<input checked="" type="checkbox"/>	Chuck fine balanced G2.5 25,000 rpm
<input checked="" type="checkbox"/>	All functional surfaces fine machined
<input checked="" type="checkbox"/>	More accurate than DIN
<input checked="" type="checkbox"/>	T.I.R. < 0.00012" (3 µm)

The Power Mini Shrink Chuck is perfect for 5-axis-machining in the die & mold and in the medical industry. Very slim at the top like the HAIMER Mini Shrink Chucks, the Power Mini Shrink is reinforced at the base. This allows for efficient milling with an angled tool even at long protruding lengths.

- 2 types: Standard (3 mm wall thickness) and extra slim (1.5 mm wall thickness)
- 3° slope at the top
- With threaded holes for balancing screws
- For solid carbide tools with shank tolerance h6
- **Note: Shrinking only with shrink and cooling adapter**



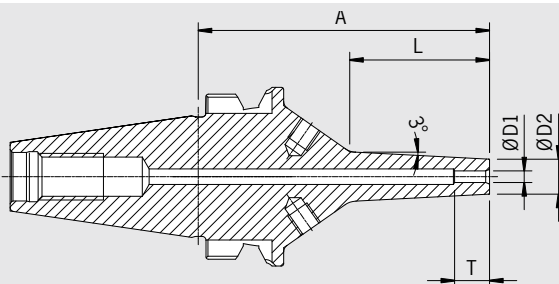
CERTIFICATE OF QUALITY	
<input checked="" type="checkbox"/>	Chuck fine balanced G2.5 25,000 rpm
<input checked="" type="checkbox"/>	All functional surfaces fine machined
<input checked="" type="checkbox"/>	More accurate than DIN
<input checked="" type="checkbox"/>	T.I.R. < 0.00012" (3 µm)

HSK-A63

METRIC	Clamping Ø D1 [mm]		03	04	05	06	08	10	12	16
	Ø D2 [mm] standard		09	10	11	12	14	16	18	24
	Ø D2 [mm] extra slim		06	07	08	09	11	13	15	—
	T [mm]		—	—	—	—	—	68	75	75
	L [mm] ZG130		50	50	50	50	50	50	50	50
Gage length A [mm]	ZG130		130	130	130	130	130	130	130	130
Order No.	standard	A63.184...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	.16.8
Order No.	extra slim	A63.174...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	—
	L [mm] oversize/ZG200		80	80	80	80	80	80	80	80
Gage length A [mm]	oversize		160	160	160	160	160	160	160	160
Order No.	standard	A63.182...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	.16.8
Order No.	extra slim	A63.172...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	—
Gage length A [mm]	ZG200		200	200	200	200	200	200	200	200
Order No.	standard	A63.186...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	.16.8
Order No.	extra slim	A63.176...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	—

CERTIFICATE OF QUALITY

- Chuck fine balanced
G2.5 25,000 rpm
or U < 1 gmm
- All functional surfaces machined
- Taper tolerance AT3
- Coolant supply form AD
- T.I.R. < 0.00012" (3 µm)



Drawing shows Standard version

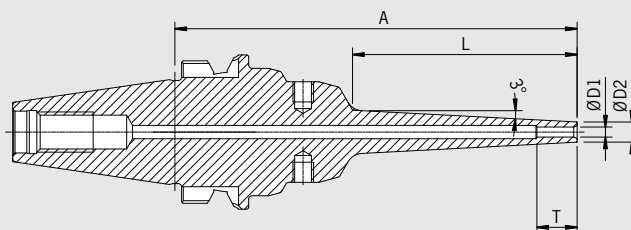


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- 3° slope at the top
- With threaded holes for balancing screws
- For solid carbide tools with shank tolerance h6
- **Note: Shrinking only with shrink and cooling adapter**

CERTIFICATE OF QUALITY

- Chuck fine balanced
G2.5 25,000 rpm
or U < 1 gmm
- All functional surfaces machined
- Taper tolerance AT3
- Coolant supply form AD
- T.I.R. < 0.00012" (3 µm)

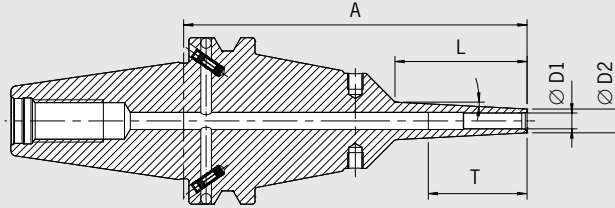


Drawing shows extra slim version



BT30

METRIC	Clamping Ø D1 [mm]	03	04	06	08	10	12
	T [mm]	—	—	—	—	68	75
	Ø D2 [mm] short	09	10	12	14	16	18
	L [mm] short	36	36	36	36	36	36
Gage Length A [mm]	short	75	75	75	75	75	75
Order No.	30.680...	.03.8	.04.8	.06.8	.08.8	.10.8	.12.8
	Ø D2 [mm] ZG95	06	07	09	—	—	—
	L [mm] ZG95	42	42	42	—	—	—
Gage Length A [mm]	ZG95	95	95	95	—	—	—
Order No.	30.671...	.03.8	.04.8	.06.8	—	—	—
	Ø D2 [mm] ZG120	06	07	09	—	—	—
	L [mm] ZG120	67	67	67	—	—	—
Gage Length A [mm]	ZG120	120	120	120	—	—	—
Order No.	30.677...	.03.8	.04.8	.06.8	—	—	—



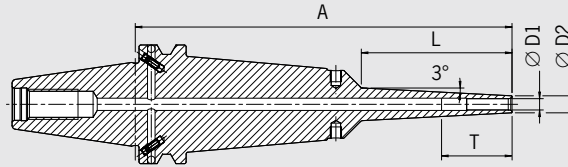
Drawing shows Standard version

CERTIFICATE OF QUALITY

- Chuck body fine balanced
G2.5 25,000 rpm
or U < 1 gmm
- All functional surfaces machined
- Taper tolerance AT3
- Coolant supply form ADB
- T.I.R. < 0.00012" (3 µm)

The Power Mini Shrink Chuck is perfect for 5-axis-machining in the die & mold and in the medical industry. Very slim at the top like the HAIMER Mini Shrink Chucks, the Power Mini Shrink is reinforced at the base. This allows for efficient milling with an angled tool even at long protruding lengths.

- 2 types: Standard (3 mm wall thickness) and extra slim (1.5 mm wall thickness)
- 3° slope at the top
- With threaded holes for balancing screws
- For solid carbide tools with shank tolerance h6
- **Note: Shrinking only with shrink and cooling adapter**



Drawing shows extra slim version

CERTIFICATE OF QUALITY

- Chuck body fine balanced
G2.5 25,000 rpm
or U < 1 gmm
- All functional surfaces machined
- Taper tolerance AT3
- Coolant supply form ADB
- T.I.R. < 0.00012" (3 µm)

BT40

METRIC	Clamping Ø D1 [mm]		03	04	05	06	08	10	12	16
	Ø D2 [mm] standard		09	10	11	12	14	16	18	24
	Ø D2 [mm] extra slim		06	07	08	09	11	13	15	—
	T [mm]		—	—	—	—	—	68	75	75
	L [mm] ZG130		50	50	50	50	50	50	50	50
Gage length A [mm]	ZG130		130	130	130	130	130	130	130	130
Order No.	standard	40.684...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	.16.8
Order No.	extra slim	40.674...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	—
	L [mm]		80	80	80	80	80	80	80	80
Gage length A [mm]	oversize		160	160	160	160	160	160	160	160
Order No.	standard	40.682...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	.16.8
Order No.	extra slim	40.672...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	—
Gage length A [mm]	ZG200		200	200	200	200	200	200	200	200
Order No.	standard	40.686...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	.16.8
Order No.	extra slim	40.676...	.03.8	.04.8	.05.8	.06.8	.08.8	.10.8	.12.8	—



Power Clamp Nano: Your first step into the world of micro machining

Specifically developed for small interfaces (HSK 25 – HSK 63)

Features:

- Ease of use: horizontal design makes handling and shrinking tools with small diameters straightforward and effortless.
- Simple and functional single chuck shrink solution
- Shrinks solid carbide and HSS tools from Ø 1/8" – Ø 5/8" (3 – 16 mm)
- Air Cooling and Tool Length Presetting

Technical details		Order No.
Power Clamp Nano		80.160.01
Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW	
Tools	solid carbide and HSS	
Tool diameter	1/8" – 5/8" (3–16 mm)	
Maximum Length of shrink fit chuck with tool	230 mm	
Dimensions WxDxH	630x510x630 mm	
Weight	75 kg	
Accessories		
Chuck support for Power Clamp Nano		See Power Clamp Catalog
Power Clamp Nano Air Cooling		80.164.00
Length presetting		80.165.00
Clips for tools for length presetting	Ø3mm Ø4mm Ø5mm Ø6mm Ø8mm Ø10mm Ø12mm	
Order No. 80.166...	.03 .04 .05 .06 .08 .10 .12	
Set of clips incl. plate		80.166.00

MINI SHRINK SHRINK AND COOLING SLEEVES

For shrinking and cooling of Mini Shrink chucks.

- Protects Mini Shrink chucks from overheating
- Extends lifetime of shrink fit chucks
- Secure and user-friendly handling
- Cooling with standard cooling body 6 mm – 8 mm



Shrinking and cooling sleeves for Mini Shrink and Power chucks								Order No.
Extra slim								
Size [mm]	Ø 03	Ø 04	Ø 05	Ø 06	Ø 08	Ø 10	Ø 12	
Size [inch]	Ø 1.18	Ø 1.57	Ø 1.97	Ø 2.36	Ø 3.15	Ø 3.93	Ø 4.72	
Order No. 80.105.14.2...	.01	.02	.03	.04	.05	.06	.07	
Standard								
Size [mm]	Ø 03	Ø 04	Ø 05	Ø 06	Ø 08	Ø 10	Ø 12	Ø 16
Size [inch]	Ø 1.18	Ø 1.57	Ø 1.97	Ø 2.36	Ø 3.15	Ø 3.93	Ø 4.72	Ø 6.30
Order No. 80.105.14.2...	.04	.08	.05	.09	.10	.11	.12	.16
Base								80.105.14.2.99
Set with base (12 pcs)								80.105.14.2.00

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Tool Management

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