



Tool Holders



Haimer

- Family owned & operated since 1977
- Global Headquarters located in Igenhausen Germany
- North America operation and stocking facility located near Chicago, Illinois
- Manufacturer of Tool Holders, Shrink Fit machines,
 Balancing Machines and Precision Measuring Instruments

Tool Holders

- Available in all tapers and sizes for CAT, HSK, BT and SK: Shrink Fit chucks, ER collet chucks, HG High Precision collet chucks and facemill arbors
- Pre-balanced to G2.5 specifications and have the capability to be fine balanced
- Conform to the strict AT3 taper tolerance
- Manufactured with the utmost precision and quality

Balancing Machines

- Allows you to balance tool holders, grinding wheels and facemill cutters
- Can help you to correct to unbalance by drilling & milling or by using balancing rings and weights (such as set screws).
- Balancing systems will accommodate all spindle tapers and sizes for CAT, HSK, BT, SK and Capto

Shrink Fit Machines

- Whether it's our economical "Power Clamp Nano" or the "Power Clamp Preset" with tool presetting capabilities, Haimer has a wide range of models & options to suit your needs.
- Heating system & cooling system are manually operated and completely independent of each other, which will provide versatility and ease of use.
- Capability to shrink carbide and HSS cutting tools & extensions with shank diameters ranging from 1/8" to 2" (3mm to 50mm)

Precision Measuring Instruments

- Allows you to find your part edge in X, Y or Z. Making calculations based on the ball diameter are no longer necessary
- Will check the flatness of a surface or find the center of a bore or shaft, with no calculations necessary.

TABLE OF CONTENTS

Introduction	Application guideline	4		HG Collet Chuck	64
	Shrink Fit chuck features	6		Face Mill Holder	
	ER Collet chuck features				
	Power Series features		HSK-A 100/DIN 69893-1	1 Shrink Fit Chuck	66
	Evolution of shrink fit			Power Shrink Chuck	
	Safe-Lock features			Heavy Duty Chuck	
				ER Collet Chuck	69
	Cool-Jet features HG Mini/Torque Wrench	17		HG Collet Chuck	70
	Heavy Duty Chucks			Face Mill Holder	
	Heavy Duty Extensions			Tacc Will Floraci	/ 1
	rieavy buty Extensions	13	HSK-E25/DIN 69893-5	Mini Shrink Fit Chuck	72
CAT 40/ASME B5.50	Shrink Fit Chuck	22	113K-L23/ DIN 03033-3	Collet Chuck Mini ER	
CAT 40/ASIVIL DJ.JU	Power Shrink Chuck			ER Collet Chuck	/3
	Power Collet Chuck			LR Collet Clidck	/4
	Accessories for	24	HSK-E32/DIN 69893-5	Shrink Fit Chuck	75
	Power Collet Chuck	O.E.	H3K-E32/DIN 09093-3	SHITIK LIL CHUCK	/5
			UCK E40 /DIN 60903 E	Mini Chrink Fit Chunk	76
	ER Collet Chuck		HSK-E40/DIN 69893-5	Mini Shrink Fit Chuck	
	Face Mill Holder	2/		Shrink Fit Chuck	//
04T F0 /40MF DF F0	OL STEP OF ST	00		ER Collet Chuck	/8
CAT 50/ASME B5.50	Shrink Fit Chuck		1101/ FEO /DIN 00000 F	M: : 01 : 1 E: 01 - 1	70
	Power Shrink Chuck		HSK-E50/DIN 69893-5	Mini Shrink Fit Chuck	
	Heavy Duty Chuck			Shrink Fit Chuck	
	ER Collet Chuck			ER Collet Chuck	
	Face Mill Holder	33		Face Mill Holder	82
BT 30/JIS B 6339	Shrink Fit Chuck	36	HSK-F63/DIN 69893-6	Shrink Fit Chuck	83
D1 30/313 D 0333	ER Collet Chuck		113K-1 03/ DIN 03033-0	ER Collet Chuck	
	Lit Collet Clidck	37		Face Mill Holder	
BT 40/JIS B 6339	Shrink Fit Chuck	38		race Willi Florder	00
21 10/010 2 0000	Power Shrink Chuck		HAIMER CAPTO™ C6		
	Power Mini Shrink		ISO 26623	Shrink Fit Chuck	88
	ER Collet Chuck		100 20020	ER Collet Chuck	80
	HG Collet Chuck			Weldon Tool Holder	
	Face Mill Holder			Face Mill Holder	
	r ace will riolder	+5		race will riolaer	
BT 50/JIS B 6339	Shrink Fit Chuck	44	Accessories	Cool Jet	_ 92
	Power Shrink Chuck	45		Shrinking Extension	_ 94
	Heavy Duty Chuck	46		Mini Shrink Extension	
	ER Collet Chuck	47		HG Mini Extension	_ 96
	HG Collet Chuck	48		Heavy Duty Shrink Extension	_ 97
	Face Mill Holder	49		ER Collets	98
				HG Collets & HG Cone wiper	100
HSK-A 32/DIN 69893-1	Shrink Fit Chuck	52		Tool Clamp	
,				Pull Stud CAT 40/CAT 50	102
HSK-A 40/DIN 69893-1	Shrink Fit Chuck	53		Reduction Sleeves	
,	ER Collet Chuck			Coolant Tubes	
	Face Mill Holder			Balancing Index Rings	
	. 400			Shrink Fit Brush	
HSK-A 50/DIN 69893-1	Shrink Fit Chuck	56		Cone Wiper	108
TION N 00/ DIN 03030 I	On the Onder	00		Backup screws	100
HSK-A 63/DIN 69893-1	Shrink Fit Chuck	57			
-	Power Shrink Chuck	58	Technical Data	Taper and Holder specifications _	111
	Heavy Duty Chuck			Overview of steep tapers	
	Power Mini Shrink			Overview of HSK tapers	
	ER Collet Chuck			Runout accuracy	
	Power Collet Chuck			Overview of Capto tapers	115
	Accessories for			Haimer Shrink Advantages	
	Power Collet Chuck	63			

THE SUITABLE CLAMPING TECHNIQUE FOR ALL TYPES OF MACHINING APPLICATIONS

Every industry has its specific requirements for tool holding. The range of applications varies from high speed cutting of aluminum to heavy machining of titanium.

For each industry with its typical machining applications HAIMER offers the right clamping technology. To find the suitable product for your specific application, please choose your industry.

Industry



Die and mould and medical engineering



Automotive engineering



General mechanical engineering



Aerospace industry



Heavy machinery industry

Requirements to tool holding

Suitable tool holder

- Power Mini Shrink Chuck

 Power Collet Chuck - High-Precision Chuck

- ER Collet Chuck

- Mini Shrink

-	High	Speed	Cutting	HSC
	Clim	taaling		

- Slim tooling
- Long protruding lenghts for deep cavities
- Mostly low cutting forces at high rpm
- Low vibration tendency
- 5-axis-machining
- High flexibility in tool clamping
- Modular system with shrink fit extensions
- Process reliability in the series production
- Machining of deep bores
- Pull out protection for cutting tools with Safe-Lock
- Constant high quality in the procurement of spare parts
- Shrink Fit Chuck standard and extensions

- Shrink Fit Chuck standard and extensions

- Power Shrink Chuck
- ER Collet Chuck

- High flexibility of tool clamping
- Tool holders for universal usage
- Vibration free run
- Modular system with shrink fit extensions

- Shrink Fit Chuck standard and extensions
- Power Shrink Chuck
- ER Collet Chuck
- High-Precision Chuck and extensions
- Power Collet Chuck

- Low vibrations at high speed for aluminum cutting
- High cutting capacity (High Performance Cutting, HPC)
- Extreme rigidity and clamping force for titanium machining
- Pull out protection for cutting tools with Safe-Lock
- Shrink Fit Chuck standard and extensions
- Power Shrink Chuck
- Heavy Duty Chuck and extensions
- Power Collet Chuck
- High-Precision Chuck and extensions
- ER Collet Chuck
- Machining of large steel and cast parts, e.g. gear housings
- High cutting forces at low to medium rpm
- High rigidity, even at long protruding lengths

- Shrink Fit Chuck standard
- Power Shrink Chuck
- Heavy Duty Chuck and extensions
- ER Collet Chuck
- Power Collet Chuck

ARE YOU READY FOR THE NEXT GENERATION OF MACHINING EFFICIENCY?

All shrink fit holders are not created equal. Choose Haimer holders for best results.

Total quality control

All made at Haimer in Germany Consistent material High-temperature resistant special steel High clamping force Long clamping bore Best run-out accuracy TIR within 0.00012" at 3 times diameter Patented back-up screw Prebalanced to G2.5@25,000 RPM Fine balancing with set-screws possible "Cool-Jet" coolant delivery available Bore for the data chip standard "DIN-B" standard AT3 taper or better on steep taper **HSK** specialists Many tapers available

Shrinking holders from Haimer

Power Shrink Mini Shrink Safe-Lock Extensions

Tapers

CAT40/CAT50 BT30/BT40/BT50 SK30/SK40/SK50 HSK25E HSK32A/E HSK40A/C/E HSK50A/C/E HSK63A/C/E/F HSK80A HSK100A HSK80F Makino





Are you saving costs at the right place?

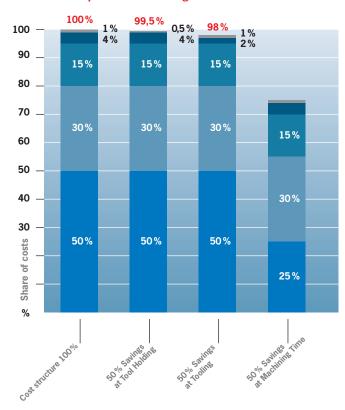
For machining efficiently all potentials for savings must be exploited. But where are these potentials?

Roughly, the costs of a work piece are composed as following:

0 37		0
Machine costs with operator		
(machining time and idle time)	approx. 50 %	
General costs	approx. 30 %	
Raw material	approx. 15 %	
Tooling	approx. 4 %	
Tool holder	approx. 1 %	

Assumed you could save 50% at tool holders, tooling and machining time.

As a result the potentials for savings are:



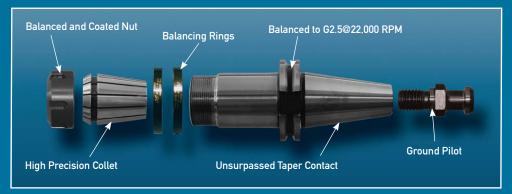
The result: The costs for tooling and tool holders are nearly meaningless. Even by savings of 50% the total costs remain nearly the same.

Essential savings can be reached by minimizing the machining time. This potential only can be exploited when the cutting process is optimized.

Tool holders from Haimer for more efficiency at high speed machining:

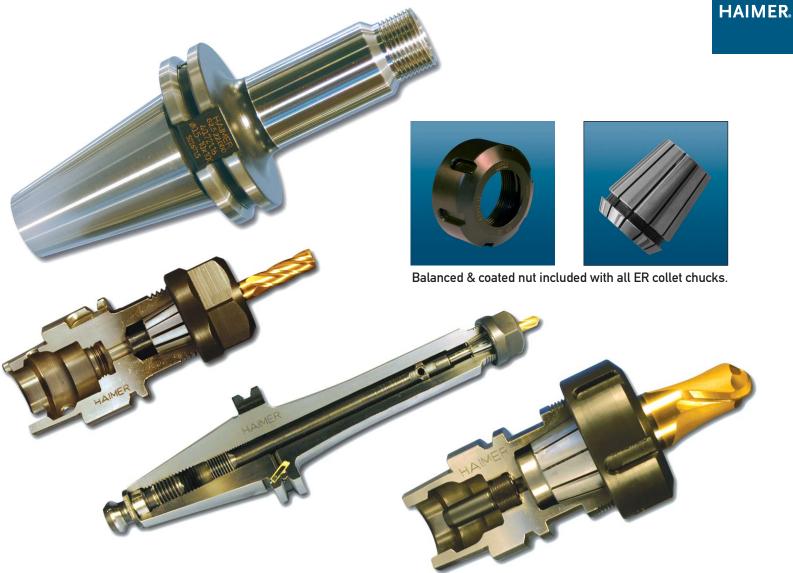
- Higher cutting capacity
- Extended tool life
- Shorter machining times
- High runout accuracy
- Better surface finish
- High reliability of the whole process





Highest Quality.....Great Value

Full Quality Control – All made in house at the Haimer factory









- Run out within 0.00012" in the collet bore
- High precision collets are the Haimer standard
- Holders balanced to G2.5 at 22,000 RPM
- Precision ground OD threads
- Special coating on the camping nut: Provides maximum tightening of the tool and minimal collet distortion, which leads to less run out and greater collet life.
- Clamping nuts are balanced by design, due to varied slot depths and fixed location of the inner ring. Fine balanced clamping nuts are also available.
- Various gage lengths available for CAT, BT, HSK and SK tapers
- "DIN B" coolant through the flange comes standard on all CAT, BT and SK tapers



POWER SERIES - ONLY GENUINE WITH SINUS CURVE

Where normal cutting ends, the Power Series begins.

Vibrations? Difficult materials? High cutting strength? Reducing cost pressure? The Power Series is intended for all of these cases. Power Shrink Chucks and Power Collet Chucks from HAIMER are the solution to the problem. Their design allows the Power Series Chuck to function with no vibration. If the machine with conventional chucks begins to chatter, Power Chucks let you step up to another gear.

Need a little more feed rate, a little more cutting depth and a little more cutting width? This is how money is earned when machining.

Expensive special tools? High-capacity spindle? All well and good. But are you utilizing the maximum potential of the machine tool? Tool and collet chuck must form one unit. Only together they can bring the optimal cutting performance of the spindle to the workpiece as well.

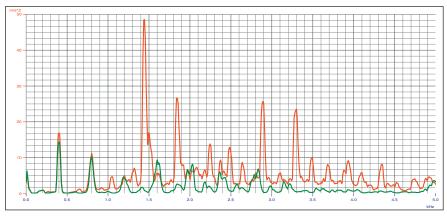
Use your potential.

The new Haimer Power Series For highest cutting capacity

- High level of rigidity
- Low tendency to vibrate
- High level of concentricity
- For extreme cutting performance
- For universal use

Vibration measurement in test cuts

Comparison between Power Shrink Chucks and hydraulic chucks



Vibration measurement

■ Haimer Power Shrink Chuck A = 65 ■ Hydraulic chuck A = 80

Source: Haimer; machining center: DMG 4-axis SK40 type DMC 60H



Milling image of Power Shrink Chuck



Milling image of hydraulic chuck

The evolution of





Always one step ahead with innovations.

HAIMER, technology leader for tool holders, annually invests about ten percent of its turnover into research and development. The primary interest of HAIMER in developing new products is to offer solutions to our customers as a system provider.

With the tendency towards faster machine tools with higher rpms and the challenge to reach high efficiency and maximized cutting volume, our customers' requirements are changing.

Starting with the **Standard Shrink Fit Chuck** which is suitable for a broad range of applications, the close cooperation with customers of the aerospace industry has led to the development

of the **Power Shrink Chuck**. Thus a much higher cutting volume and a considerably higher tool life e.g. in the aluminum cutting could be achieved. In the same breath for extreme critical applications the Safe-Lock system was developed to prevent the slow pull out of cutting tools.

The last advancement in the evolution of HAIMER shrink fit chucks, which you can see in detail on the inside pages of this cover, is the **Heavy Duty Chuck**. The extremely rigid outer geometry and the reinforced wall thickness at the clamping bore make it a profitable chuck for highest performances e. g. for the titanium cutting in the aerospace industry or in the heavy machinery industry.



Three series – one million applications.



Die and mould and medical engineering



Automotive engineering



General mechanical engineering

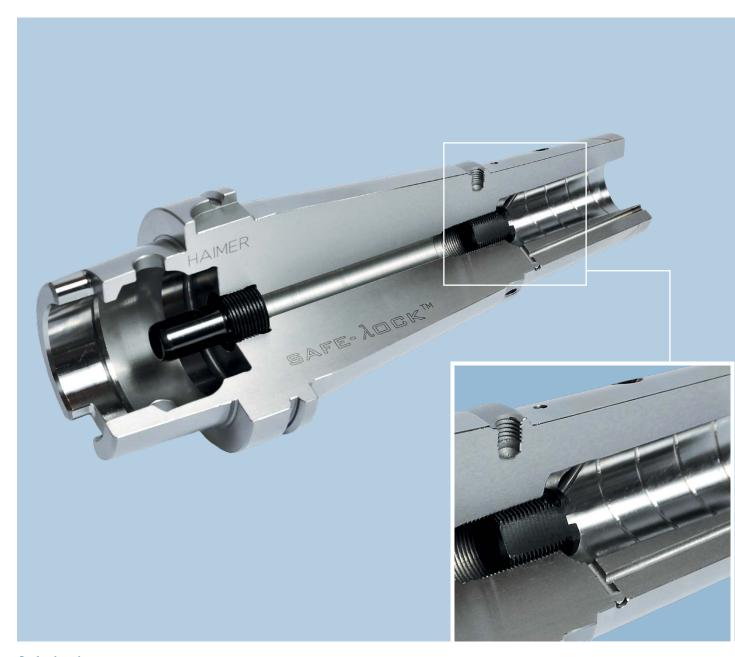


Aerospace industry



Heavy machinery industry

SAFE-LOCK PULL OUT PROTECTION



Safe-Lock:

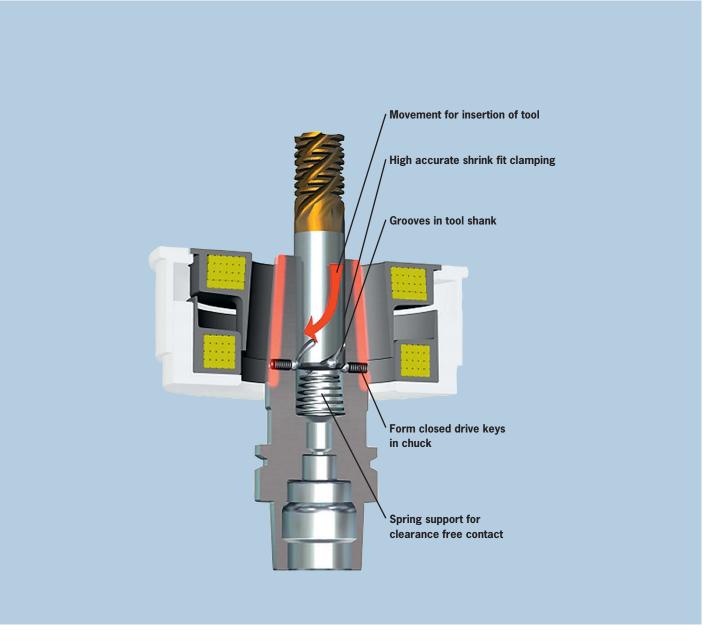
For the safety-conscious

In high performance cutting (HPC), it is possible for the cutting tool to become pulled out from the chuck. The reason is a slow micro-creeping motion. It happens with cutting at high speed and with high pull out forces. Even chucks with extremely high clamping force cannot prevent micro-creeping. High-quality workpieces become scrap as a result.

The Safe-Lock system offers help.

Keys in the chuck grip the grooves in the tool shrank. In addition to the frictional clamping force of the shrink fit chuck, the tool is held using positive locking. As a result, micro-creeping is effectively prevented and your tool is clamped safely.

Safe-Lock, the safety belt for your tools.



On the safe side with Safe-Lock:

- For High Performance Cutting (HPC)
- Highly accurate clamping due to shrink fit technology
- High torque due to form closed clamping
- No loss of accuracy
- No pull out of the tool
- No spinning of the tool
- No damage to the work piece or machine
- Groove on tool shank is directed so that tool will be pulled into the chuck (depending on direction of rotation)
- Patent pending: licensing possible





Cool Jet:

For cool cutting edges

Cool Jet - cut the chip only once!

- Coolant directly to the cutting edge
- Extended toollife up to 100%
- Higher reliability of cutting process
- No more balls of chips on tool

Function at high spindle speed

Previous coolant bores: straight

Optimized coolant bores: aimed at center

ACCESSORIES





HG Mini Extensions: For micro applications

HAIMER HG Mini extensions are based on the approved HG clamping technology – only far more delicate. With HG Mini extensions you can cover the micro-clamping range from 1 mm to 4.5 mm. They are perfect for light milling and drilling operations. You won't find a smaller and more delicate tool than this!

Torque wrench: For ER Collets and Pull Studs

- For highest runout accuracy, no one-sided clamping
- Optimal power transmission by constant force application
- Torque wrench for highest clamping and repeatability with dial gauge
- Maximum torque for highest clamping force
- No overloading of smaller clamping diameters
- Changeable inserts, useable also for standard ER Collets





Heavy Duty Chuck:

Shrink fit chuck for extreme cases

For heavy machining applications it is now possible to replace the Weldon tool holders. Heavy Duty Chuck is the shrink fit chuck for extreme cases. The contour is optimized for highest rigidity and clamping force.

Available for the following interfaces:

- SK50
- BT50
- HSK-A63/100

For more information please see our HSC/HPC brochure.

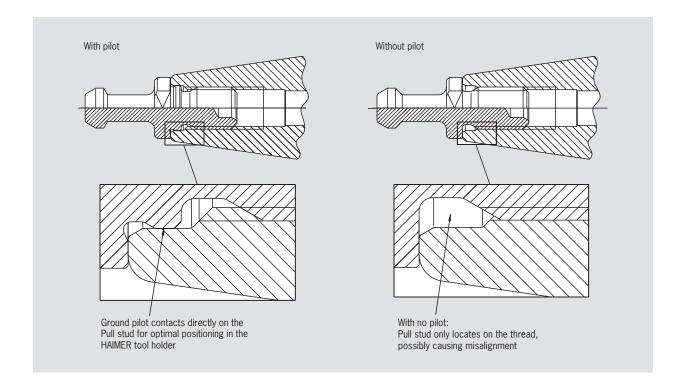
HEAVY DUTY EXTENSIONS



Heavy Duty shrink fit extensions: For more flexibility

- HAIMER as full system provider: The consistent addition to the Heavy Duty Chucks
- Extremely stable with 50 mm outer diameter
- Safe support of the tool with setscrews
- Heavy machining also in hidden angles: Length of 400 and 600 mm
- The extensions can be shortened to customer's needs on request
- Solid carbide inserts for vibration dampening on request

For more information please see our HSC/HPC brochure.



Haimer goes far beyond the requirements of CAT 40 tooling. Our experience with tool holders and balancing have merged together to successfully create far superior CAT tapered tooling.

In addition to our unsurpassed taper contact and 100% inspection process of our tapers, Haimer has developed a special feature to greatly increase your tool holder balance repeatability and your machine tool spindle draw mechanism repeatability.

We have added a ground pilot in the rear of all our CAT 40 tool holders. This ground pilot fits perfectly with the special Haimer pull stud to maximize your tool holder to machine tool connection. The ground pilot is larger than the standard ANSI dimension, so you can easily use any pull stud from any manufacturer. However, for those serious about balance and machine tool spindle draw repeatability, Haimer has the answer for you with our special pull-stud/pilot connection!



CAT 40 CAT 50

CAT 40/ASME B5.50

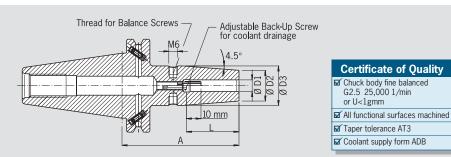
Shrink Fit Chuck	22
Power Shrink Chuck	23
Power ER Collet Chuck	24
Accessories for	
Power ER Collet Chuck	25
ER Collet Chuck	26
Face Mill Holder	27

CAT 50/ASME B5.50

Shrink Fit Chuck	29
Power Shrink Chuck	30
Heavy Duty Chuck	31
ER Collet Chuck	32
Face Mill Holder	33

SHRINK FIT CHUCK CAT 40 · ASME B5.50





llse:

Suitable for all shrinking units

CAT 40 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- Tapped holes for balancing with set screws
- Fine-balancing by set screws possible
- Cool Jet option available upon request

INCH Clamping	D1 [inch] for	shank tolerance h6	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"
Ø D2 [inch]			0.39"	0.39"	0.83"	0.83"	0.94"	0.94"	0.94"	1.06"	1.3"	1.30"	1.73"	1.73"
Ø D3 [inch]			0.77"	0.77"	1.06"	1.06"	1.26"	1.26"	1.26"	1.34"	1.65"	1.65"	2.09"	2.09"
L [inch]			0.35"	0.47"	1.42"	1.42"	1.65"	1.65"	1.85"	1.97"	2.05"	2.05"	2.28"	2.28"
Gage length A [inch]	short		3.15"1)	3.15"1)	3.15"	3.15"	3.15"	3.15"	3.15"	3.15"	3.15"	3.15"	3.94"	3.94"
Order No.	40.840		1/8Z	3/16Z	1/4Z	5/16"	3/8Z	7/16Z	1/2Z	5/8Z	3/4Z	7/8Z	1Z	1 1/4Z
Gage length A [inch]	ZG130		-	_	5.12"	5.12"	5.12"	5.12"	5.12"	5.12"	5.12"	5.12"	5.122)	5.122)
Order No.	40.844				1/4Z	5/16Z	3/8Z	7/16Z	1/2Z	5/8Z	3/4Z	7/8Z	1Z	1 1/4Z
Gage length A [inch]	extralong 160		_	_	6.30"	6.30"	6.30"	6.30"	6.30"	6.30"	6.30"	6.30"	6.30"2)	6.30"2)
Order No.	40.842				1/4Z	5/16Z	3/8Z	7/16Z	1/2Z	5/8Z	3/4Z	7/8Z	1Z	1 1/4Z

METRIC Clamping Ø D1 [mm] for s	shank tolerance h6	03	04	05	06	08	10	12	14	16	20	25	32
Ø D2 [mm]		10	10	10	21	21	24	24	27	27	33	44	44
Ø D3 [mm]		19.6	19.6	19.6	27	27	32	32	34	34	42	53	53
L [mm]		9	12	15	36	36	42	47	47	50	52	58	58
Gage length A [mm] short		801)	801)	801)	80	80	80	80	80	80	80	100	100
Order No. 40.840		03	04	05	06	08	10	12	14	16	20	25	32
Gage length A [mm] ZG130		_	_	_	130	130	130	130	130	130	130	1302)	1302)
Order No. 40.844					06	08	10	12	14	16	20	25	32
Gage length A [mm] extralong 160		-	_	_	160	160	160	1602)	160	160	160	160	_
Order No. 40.842					06	08	10	12	14	16	20	25	

¹⁾ Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside

Technical data and availability subject to change without prior notice

2) Upon request

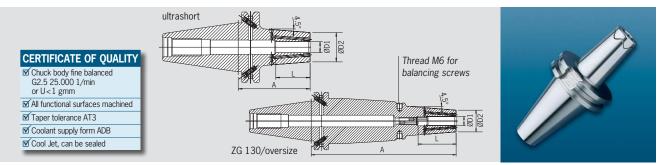
POWER SHRINK CHUCK CAT40 · ASME B5.50











The Power Shrink Chuck is the shrink fit chuck for highest machining capacity in high-speed manufacturing. The optimized design combines high rigidity with dampening vibrations, therefore giving more protection to machines, spindles and tools.

- Increased machining capacity due to higher spindle speed, higher feed and larger cutting depth
- Shorter processing times
- Quieter running, therefore better surface quality and protection of tools, spindles and machines
- Higher machining accuracy
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock from Ø 12 mm

The long versions with slim tips are especially versatile to use.

- High rigidity
- Slim at the tip
- Dampen vibrations
- High clamping force
- Equally suited to high-speed manufacturing and heavy milling
- Universal usage, saves space in tool magazine

INCH	Ø D1 [inch]		1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
	Ø D2 [inch] ultra	short	0.87	0.87	1.04	1.04	1.16	1.40	1.79
	Ø D2 [inch]		0.83	0.83	0.94	0.94	1.06	1.30	
	L [inch] ultra shor	t	1.42	1.42	1.65	1.85	1.97	2.05	2.28
	L [inch]		1.42	1.42	1.65	1.85	1.97	2.05	
Length A [inch] Order No.	ultra short 40.845		2.56 1/4z.3	2.56 5/16z.3	2.56 3/8z.3	2.56 1/2z.3	2.56 5/8z.3	2.56 3/4z.3	2.95 1z.3
Length A [inch] Order No.	ZG130 40.844		5.12 1/4z.3	5.12 5/16z.3	5.12 3/8z.3	5.12 1/2z.3	5.12 5/8z.3	5.12 3/4z.3	
Length A [inch] Order No.	oversize 40.842		6.30 1/4z.3	6.30 5/16z.3	6.30 3/8z.3	6.30 1/2z.3	6.30 5/8z.3	6.30 3/4z.3	

METRIC	Ø D1 [mm]		6	8	10	12	16	20	25
	Ø D2 [mm] ultra	short	22	22	26.5	26.5	29.5	35.5	45.5
	Ø D2 [mm]		21	21	24	24	27	33	-
	L [mm] ultra shor	t	36	36	42	47	50	52	58
	L [mm]		36	36	42	47	50	52	<u> </u>
Length A [mm] Order No.	ultra short 40.845		65 06.3	65 08.3	65 10.3	65 12.3	65 16.3	65 20.3	75 25.3
Length A [mm] Order No.	ZG130 40.844		130 06.3	130 08.3	130 10.3	130 12.3	130 16.3	130 20.3	
Length A [mm] Order No.	oversize 40.842		160 06.3	160 08.3	160 10.3	160 12.3	160 16.3	160 20.3	_

Can be upgraded with Safe-Lock from \varnothing 12! The Safe-Lock order number ends with ".37" (e.g. 40.842.12.37)

POWER COLLET CHUCK CAT40 · ASME B5.50

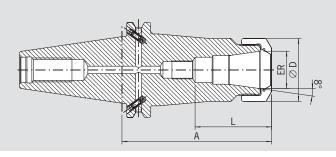












CERTIFICATE OF QUALITY

☑ Chuck body fine balanced G2.5 25.000 1/min

☑ All functional surfaces machined

The Power Collet Chuck is the collet chuck for the highest machining capacity in high-speed manufacturing. The optimized design with better construction combines high rigidity with vibration dampening features, giving more protection to machines, spindles and tools.

The universal Power Collet Chuck is a unique high performance chuck that can also be used with standard collets.

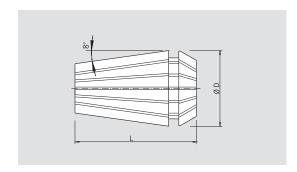
- High runout accuracy: 0.005 mm at 3×D with HAIMER Power Collets
- Also for standard collets ER according to ISO 15488 (formerly DIN 6499)
- High rigidity
- Smoother running thanks to vibration absorbing geometry, therefore better surface quality and protection of tools, spindles and machines
- Increased machining capacity due to higher spindle speed, higher feed and larger cutting depth
- Shorter processing times
- Higher machining accuracy
- High clamping force
- Equally suited to high-speed manufacturing and heavy milling

INCH	ER	16	25	32
	Ø D [inch]	1.1	1.65	1.89
	Clamping range [inch]	1/8"-3/8"	1/8"-5/8"	1/8"-3/4"
	L [inch] short	1.69	2.42	2.44
Length A [inch] Order No.	short 40.720	2.76 16.3	2.76 25.3	2.76 32.3
	L [mm]	1.69	2.01	2.09
Length A [inch] Order No.	long 40.721	3.94 16.3	3.94 25.3	3.94 32.3
Length A [inch] Order No.	oversize 40.722	6.30 16.3	6.30 25.3	6.30 32.3



Standard ER Collet

- For general machining

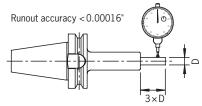


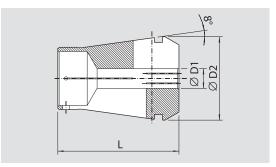


Power ER Collet

- For ultra precision machining

High runout accuracy (0.005 mm at 3×D)

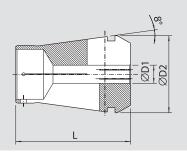




Technical data and availability subject to change without prior notice

ACCESSORIES FOR POWER COLLET CHUCK

- High runout accuracy: 0.005 mm at 3 x D
- Superior clamping strength
- Fits HAIMER Power Collet Chucks
- For cylindrical shanks with tolerance h10





Clamping Ø D1	[mm]	Ø D1
Order No.	81.163.02	2 mm
	81.163.03	3 mm
	81.163.04	4 mm
	81.163.05	5 mm
	81.163.06	6 mm
	81.163.08	8 mm
	81.163.10	10 mm

Clamping Ø D1	[mm]	Ø D1
Order No.	81.253.02	2 mm
	81.253.03	3 mm
	81.253.04	4 mm
	81.253.05	5 mm
	81.253.06	6 mm
	81.253.08	8 mm
	81.253.10	10 mm
	81.253.12	12 mm
	81.253.14	14 mm
	81.253.16	16 mm

Clamping Ø D1	[mm]	Ø D1
Order No.	81.323.02	2 mm
	81.323.03	3 mm
	81.323.04	4 mm
	81.323.05	5 mm
	81.323.06	6 mm
	81.323.08	8 mm
	81.323.10	10 mm
	81.323.12	12 mm
	81.323.14	14 mm
	81.323.16	16 mm
	81.323.18	18 mm
	81.323.20	20 mm

Clamping Ø D1	[in]	Ø D1
Order No.	81.163.1/8z	1/8"
	81.163.3/16z	3/16"
	81.163.1/4z	1/4"
	81.163.5/16z	5/16"
	81.163.3/8z	3/8"

Clamping Ø D1	[in]	Ø D1
Order No.	81.253.1/8z	1/8"
	81.253.3/16z	3/16"
	81.253.1/4z	1/4"
	81.253.5/16z	5/16"
	81.253.3/8z	3/8"
	81.253.7/16z	7/16"
	81.253.1/2z	1/2"
	81.253.9/16z	9/16"
	81.253.5/8z	5/8"
_		

Clamping Ø D1	[in]	Ø D1
Order No.	81.323.1/8z	1/8"
	81.323.3/16z	3/16"
	81.323.1/4z	1/4"
	81.323.5/16z	5/16"
	81.323.3/8z	3/8"
	81.323.7/16z	7/16"
	81.323.1/2z	1/2"
	81.323.9/16z	9/16"
	81.323.5/8z	5/8"
	81.323.3/4z	3/4"



Clamping wrench and torque wrench for Power Collet Chucks:

- For highest runout accuracy, no one-sided clamping
- Optimal power transmission by constant force application
- Torque wrench for highest clamping and repeatability with dial gauge
- Maximum torque for highest clamping force
- No overloading of smaller clamping diameters
- Changeable inserts, useable also for standard ER-Collets



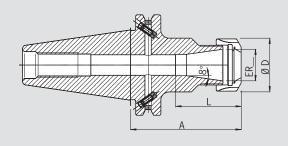
Torque wrench

Accessories				
Clamping wren	ch			
Size		ER 16	ER 25	ER 32
Order No.	84.650	16	25	32
Torque wrench				
Order No. 84.60	0.00			
Torque wrench	inserts			
Size		ER 16	ER 25	ER 32
For Power Colle	et Chucks			
Order No.	84.610	16	25	32
For standard El	R chucks			
Order No.	84.620	16	25	32

Technical data subject to change without prior notice

ER COLLET CHUCK CAT 40 · ASME B5.50





Certificate of Quality

- ☐ Chuck fine balanced G2.5 22.0001/min or U<1gmm
- ☑ All functional surfaces machined
- ☑ Taper tolerance AT3

Use:

For clamping tools with cylindrical shank in ER collets

CAT 40 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

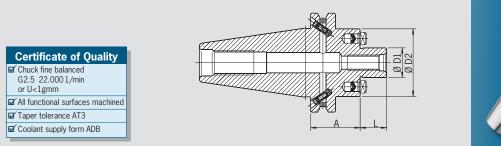
- Balanced chuck nuts with special slide coating for low friction and high clamping forces
- Included in delivery: ER collet chuck with pre-balanced chuck nut

INCH	ØER	ER11	ER16	ER20	ER25	ER32	ER40
	ØD [inch]	0.75"	1.1"	1.34"	1.65"	1.97"	2.48"
	Clamping range [inch]		0.02"-0.39"	0.04"-0.51"		0.04"-0.79"	0.08"-1.02"
	Clamping range [mm]	0.5–7	0.5–10	1–13	1–16	1–20	2–26
L [inch] Gage length A [inch] Order No.	short 40.720	- -	2) 2.76" 16	1.63" 2.76" 20	2.24" 2.76" 25	2.52" 2.76" 32	2.87" 2.76" 40
L [inch] Gage length A [inch] Order No.	long 100 40.721	3.94" 11	3.94" 16	1.63" 3.94" 20	2.24" 3.94" 25	2.52" 3.94" 32	2.87" 3.94" 40
L [inch] Gage length A [inch] Order No.	extralong 160 40.722	-	6.30" 16	1.63" 6.30" 20	2.24" 6.30" 25	2.52" 6.30" 32	2.87" 6.30" 40
L [inch] Gage length A [inch] Order No.	ZG200 40.726	-	7.87" 16	1.63" 7.87" 20	2.24" 7.87" 25	2.52" 7.87" 32	-

Accessories							See	also accessories
Spare parts Chuck	nut, Pre-bala	anced						
Ø ER Order No.	83.912	E	ER11 11	ER16 16	ER20 20	ER25 25	ER32 32	ER40 40
Spare parts Chuck nut HS (High-Speed), Fine-balanced								
Ø ER Order No.	83.912	E	ER11 11.HS	ER16 16.HS	ER20 20.HS	ER25 25.HS	ER32 32.HS	ER40 40.HS
Spare parts Wrenc	h							
Ø ER Order No.	84.200	~	ER11 11	ER16 16	ER20 20	-	_	-
Spare parts Wrenc	h							
Ø ER Order No.	84.200		_	-	-	ER25 25	ER32 32	ER40 40
Spare parts Balance	cing index rin	gs						
Ø ER Order No.	79.350	igoplus	ER11 19	ER16 28	ER20 34	ER25 42	ER32 1.71Z	ER40 ¹⁾ 50
Spare parts Collet								
Ø ER See accessories								
Spare parts Pull St	tuds							
Ø ER See accessories								

1) Not for 40.720.40 2) Drilled through

FACE MILL HOLDER CAT 40 · ASME B5.50





Use:

For clamping face-mill cutters

CAT 40 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

- Included in delivery: Face mill holder and clamping screw

INCH	Ø D1 [inch]	3/4"	1"	1 1/4"
	L [inch]	0.70"	0.70"	0.70"
	Ø D2 [inch]	1.71"	2.17"	2.75"
Gage length A [inch] Order No.	short 40.750	1.38" 3/4Z	1.97" 1Z	1.97" 1 1/4Z
Gage length A [inch] Order No.	long100 40.751	3.94" 3/4Z	3.94" 1Z	-

Accessories See also accessories

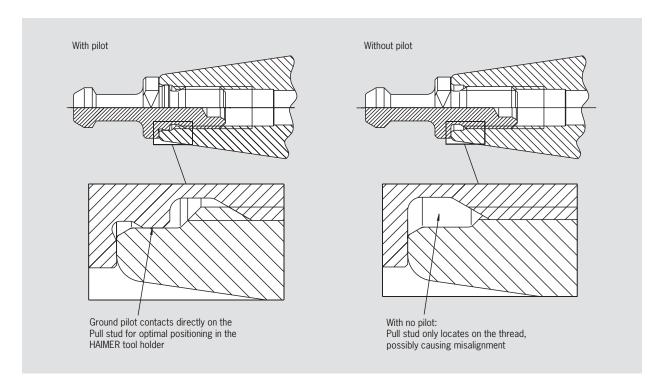
Spare parts Cla	mping Screw						
ØD1 [inch]			3/4"	1"	1 1/4"	1 1/2"	
Order No.	85.300		3/4Z	1Z	11/4Z	11/2Z	
Spare parts Wre	ench						
ØD1 [inch]			3/4"	1"	1 1/4"	1 1/2"	
Order No.	84.400		3/4Z	1Z	11/4Z	11/2Z	
Spare parts Bala	ancing index rings	• •					
Ø D1 [inch]		Ψ	3/4"	1"	-	_	
Order No.	79.350		1.71Z	55Z			
Spare parts Pull	l Studs						
Ø D1 [inch]	See accessor	ries					

Accessories					See also accessories
Spare parts Clar	mping Screw				
ØD1 [mm] Order No.	85.300		22 22	27 27	
Spare parts Wre	ench				
Ø D1 [mm]		•	22	27	
Order No.	84.400	•	22	27	
Spare parts Bala	ancing index rings	}			
Ø D1 [mm]			22	27	
Order No.	79.350	\cup	1.71Z	60	
Spare parts Pull					
Ø D1 [mm]	See accessor	ies (III)			

1) On request

Technical data subject to change without prior notice

CAT 50



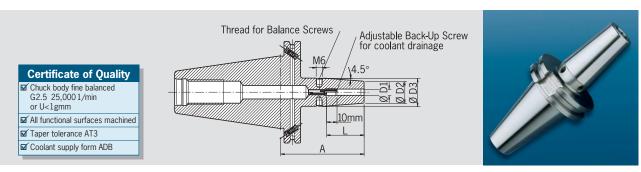
Haimer goes far beyond the requirements of CAT 50 tooling. Our experience with tool holders and balancing have merged together to successfully create far superior CAT tapered tooling.

In addition to our unsurpassed taper contact and 100% inspection process of our tapers, Haimer has developed a special feature to greatly increase your tool holder balance repeatability and your machine tool spindle draw mechanism repeatability.

We have added a ground pilot in the rear of all our CAT 50 tool holders. This ground pilot fits perfectly with the special Haimer pull stud to maximize your tool holder to machine tool connection. The weight of a standard CAT 50 pull-stud can easily throw out the balance of a pre-balanced tool holder, especially if it is locating only on the threads of the pull stud. The special Haimer pull stud in conjunction with a CAT 50 Haimer holder can greatly reduce this inconsistency in balance.

The ground pilot is larger than the standard ANSI dimension, so you can easily use any pull stud from any manufacturer. However, for those serious about balance and machine tool spindle draw repeatability, Haimer has the answer for you!

SHRINK FIT CHUCK CAT 50 · ASME B5.50



Use:

Suitable for all shrinking units

CAT 50 FORM ADB

Form ADB means: central coolant supply and coolant channels through the flange which can be sealed again

- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- Tapped holes for balancing with set screws
- Fine-balancing by set screws possible
- Cool Jet option available upon requet

INCH	Clamping Ø D1 [inch] for shank tolerance h6	1/4"	5/16"	,	7/16"		5/8"	3/4"	7/8"	1"	1 1/4"
	Ø D2 [inch]	0.83"	0.83"	0.94"	0.94"	0.94"	1.06"	1.30"	1.30"	1.73"	1.73"
	Ø D3 [inch]	1.06"	1.06"	1.26"			1.34"	1.65"	1.65"	2.09"	2.09"
	L [inch]	1.42"	1.42"	1.65"	1.65"	1.85"	1.97"	2.05"	2.05"	2.28"	2.28"
Gage length A [inch] Order No.	short 50.840	3.15" 1/4Z	3.15" 5/16Z	3.15" 3/8Z	3.15" 7/16Z	3.15" 1/2Z	3.15" 5/8Z	3.15" 3/4Z	3.15" 7/8Z	3.94" 1Z	3.94" 1 1/4Z
Gage length A [inch] Order No.	ZG130 50.844	5.12" 1/4Z	5.12" 5/16Z	5.12" 3/8Z	5.12" 7/16Z	5.12" 1/2Z	5.12" 5/8Z	5.12" 3/4Z	5.12" 7/8Z	5.12" 1Z	5.12" 1 1/4Z
Gage length A [inch] Order No.	extralong160 50.842	6.30" 1/4Z	6.30" 5/16Z	6.30" 3/8Z	6.30" 7/16Z	6.30" 1/2Z	6.30" 5/8Z	6.30" 3/4Z	6.30" 7/8Z	6.30" 1Z	6.30" 1 1/4Z

METRIC	Clamping Ø D1 [mm] for shank tolerance h6	06	08	10	12	14	16	20	25	32
	Ø D2 [mm]	21	21	24	24	27	27	33	44	44
	Ø D3 [mm]	27	27	32	32	34	34	42	53	53
	L [mm]	36	36	42	47	47	50	52	58	58
Gage length A [mm] Order No.	short 50.840	80 06	80 08	80 10	80 12	80 14	80 16	80 20	100 25	100 32
Gage length A [mm] Order No.	ZG130 50.844	130 06	130 08	130 10	130 12	130 14	130 16	130 20	130 25	130 32
Gage length A [mm] Order No.	extralong160 50.842	160 06	160 08	160 10	160 12	160 14	160 16	160 20	160 25	160 32

POWER SHRINK CHUCK CAT50. ASME B5.50

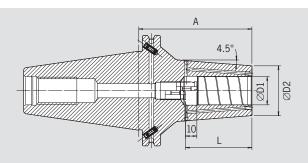












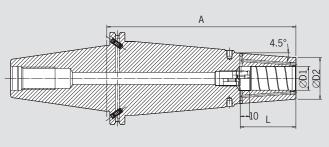
The long versions (A=160 and 200) with slim tips are especially versatile to use.

- High rigidity
- Slim at the tip
- Dampen vibrations
- High clamping force
- Equally suited to high-speed manufacturing and heavy milling
- Universal usage, saves space in tool magazine

The Power Shrink Chuck is the shrink fit chuck for highest machining capacity in high-speed manufacturing. The optimized design combines high rigidity with dampening vibrations, therefore giving more protection to machines, spindles and tools.

- Increased machining capacity due to higher spindle speed, higher feed and larger cutting depth
- Shorter processing times
- Quieter running, therefore better surface quality and protection of tools, spindles and machines
- Higher machining accuracy
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock from Ø 12 mm





C	ERTIFICATE OF QUALITY
V	Chuck body fine balanced G2.5 25.000 1/min or U<1 gmm
V	All functional surfaces machined
V	Taper tolerance AT3
V	Coolant supply form ADB
	Cool Jet, can be sealed

✓ All functional surfaces machined
✓ Taper tolerance AT3
✓ Coolant supply form ADB
✓ Cool Jet, can be sealed

INCH	Clamping Ø D1 [inch]	1/2"	5/8"	3/4"	1"
	Ø D2 [inch]	1.06	1.30	1.73	1.73
	L [inch]	1.85	1.85	2.05	2.28
Length A [inch] Order No.	short 50.840	3.15 1/2z.3	3.15 5/8z.3	3.15 3/4z.3	3.94 1z.3

METRIC	Clamping ∅ D1	[mm]	06	08	10	12	14	16	18	20	25
	Ø D2 [mm]		21	21	27	27	33	33	44	44	44
	L [mm]		36	36	42	47	47	47	50	52	58
Length A [mm] Order No.	short 50.840		80 06.3	80 08.3	80 10.3	80 12.3	80 14.3	80 16.3	80 18.3	80 20.3	100 25.3
Length A [mm] Order No.	oversize 50.842		160 06.3	160 08.3	160 10.3	160 12.3	160 14.3	160 16.3	160 18.3	160 20.3	160 25.3
Length A [mm] Order No.	ZG200 50.846		200 06.3	200 08.3	200 10.3	200 12.3	200 14.3	200 16.3	200 18.3	200 20.3	200 25.3

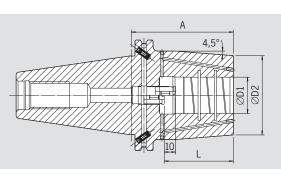
Can be upgraded with Safe-Lock from $\varnothing 12!$ The Safe-Lock order number ends with ".37" (e. g. 50.842.12.37)

HEAVY DUTY CHUCK CAT50 · ASME B5.50











For heavy machining applications it is now possible to replace the Weldon tool holders finally. Heavy Duty Chuck is the shrink fit chuck for extreme cases. The contour is optimized for highest rigidity and clamping force.

- Smooth clamping of the tool shank
- No deflection of the tool shank at the clamping range
- High runout accuracy: 3 μm
- Reinforced outer contour
- To shrink with high performance shrink fit unit HAIMER Power Clamp Profi Plus (20 kW)
- With dirt groove in the clamping bore
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock

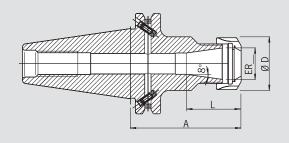
INCH	Clamping ∅ D1 [inch]	1"	1 1/4"	1 1/2"	2"
	Ø D2 [inch]	2.48	2.76	3.23	3.23
	L [inch]	2.28	2.40	3.46	3.46
Length A [inch] Order No.	short 50.850	3.54 1z.6	3.54 11/4z.6	3.94 11/2z.6	5.51 2z.6

METRIC	Clamping Ø D1 [mm]	25	32	40	50
	Ø D2 [mm]	63	70	82	82
	L [mm]	58	61	88	88
Length A [mm] Order No.	short 50.850	90 25.6	90 32.6	100 40.6	140 50.6

All sizes can be upgraded with Safe-Lock! The Safe-Lock order number ends with ".67" (e. g. 50.850.25.67)

ER COLLET CHUCK CAT 50 · ASME B5.50





Certificate of Quality ☑ Chuck body fine balanced G2.5 25,0001/min or U<1gmm ☑ All functional surfaces machined ☑ Taper tolerance AT3 ☑ Coolant supply form ADB

Use:

For clamping tools with cylindrical shank in ER collets

CAT 50 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

- Balanced chuck nuts with special slide coating for low friction and high clamping forces
- Included in delivery: ER collet chuck with pre-balanced chuck nut

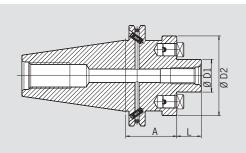
INCH	Ø ER Ø D [inch]	ER16	ER20 1.34"	ER25 1.65"	ER32 1.97"	ER40 2.48"
	Clamping range [inch] Clamping range [mm]	0.02"-0.39" 0.5-10	0.04"-0.51" 1-13	0.04"-0.63" 1-16	0.04"-0.79" 1-20	0.08"-1.02" 2-26
L [inch] Gage length A [inch] Order No.	short 50.720	⁴⁾ 2.76" 16	1.63" 2.76" 20	2.24" 2.76" 25	2.52" 2.76" 32	2.87" 2.76" 40
L [inch] Gage length A [inch] Order No.	long 100 30.721	⁴⁾ 3.94" 16	1.63" 3.94" 20	2.24" 3.94" 25	2.52" 3.94" 32	2.87" 3.94" 40
L [inch] Gage length A [inch] Order No.	extralong 160 50.722	4) 6.30" 16	1.63" 6.30" 20	2.24" 6.30" 25	2.52" 6.30" 32	2.87" 6.30" 40

Accessories							See also accessories
Spare parts Chuck	nut, Pre-bala	nced					
Ø ER Order No.	83.912	E	ER16 16	ER20 20	ER25 25	ER32 32	ER40 40
Spare parts Chuck	nut HS (High:	speed), Fine-balanced					
Ø ER Order No.	83.912	E	ER16 16.HS	ER20 20.HS	ER25 25.HS	ER32 32.HS	ER40 40.HS
Spare parts Wrenc	h						
Ø ER Order No.	84.200	5	ER16 16	ER20 20	-	-	_
Spare parts Wrenc	h						
Ø ER Order No.	84.200		-	-	ER25 25	ER32 32	ER40 40
Spare parts Balance	ing index ring	gs					
Ø ER Order No.	79.350	igoplus	ER16 28	ER20 34	ER25 ¹⁾ 42	ER32 ²⁾ 48	ER40 ³⁾ 63
Spare parts Collet							
Ø ER See accessories							
Spare parts Pull St	uds						
Ø ER See accessories							

1) Not for 50.720.25 2) Not for 50.720.32 3) Not for 50.720.40 4) Drilled through

FACE MILL HOLDER CAT 50 · ASME B5.50







Use:

For clamping face-mill cutters

CAT 50 FORM ADB

Form ADB means: central coolant supply and coolant channels through the flange which can be sealed again

- Included in delivery: Face mill holder and clamping screw

INCH	Ø D1 [inch]	3/4"	1"	1 1/4"	1 1/2"
	L [inch] Ø D2 [inch]	0.70" 1.71"	0.70" 2.17"	0.70" 2.71"	0.94" 3.78"
Gage length A [inch] Order No.	short 50.750	1.38" 3/4Z	1.38" 1Z	1.38" 1 1/4Z	2.36" 1 1/2Z
Gage length A [inch] Order No.	long 100 50.751	3.94" 3/4Z	3.94" 1Z	-	-

Accessories							See also accessories
Spare parts Clan	nping Screw						
Ø D1 [inch] Order No.	85.300		3/4" 3/4Z	1" 1Z	1 1/4" 11/4Z	1 1/2" 11/2Z	2" 2Z
Spare parts Wrei	nch						
ØD1 [inch] Order No.	84.400		3/4" 3/4Z	1" 1Z	1 1/4" 11/4Z	1 1/2" 11/2Z	2" 2Z
Spare parts Bala	ncing index ring	s					
ØD1 [inch] Order No.	79.350	igoplus	3/4" 1.71Z	1" 55	-	_	-
Spare parts Pull	Studs						
ØD1 [inch]	See accesso	ries The state of					
Accessories Spare parts Clan	nning Scraw						See also accessories
Ø D1 [mm] Order No.	85.300		22 22	27 27	32 32		
Spare parts Wrei	nch						
ØD1 [mm] Order No.	84.400		22 22	27 27	32 32		
Spare parts Bala	ncing index ring	S					
ØD1 [mm] Order No.	79.350	igoplus	22 1.71Z	27 60	32 78		
Spare parts Pull							
Ø D1 [mm]	See accesso	ries The state of					

1) On request

Technical data subject to change without prior notice





BT 30 BT 40 BT 50

BT 30/JIS B 6339

Shrink Fit Chuck	36
ER Collet Chuck	37

BT 40/JIS B 6339

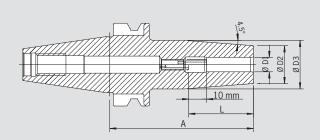
Shrink Fit Chuck	38
Power Shrink Chuck	39
Power Mini Shrink	40
ER Collet Chuck	41
HG Collet Chuck	42
Face Mill Holder	43

BT 50/JIS B 6339

Shrink Fit Chuck	44
Power Shrink Chuck	45
Heavy Duty Chuck	46
ER Collet Chuck	47
HG Collet Chuck	48
Face Mill Holder	49

SHRINK FIT CHUCK BT 30 · JIS B 6339





Certificate of Quality

☐ Chuck fine balanced G2.5 25,000 1/min or U<1gmm

✓ All functional surfaces machined✓ Taper tolerance AT3

Use:

Suitable for all inductive, contact and hotair shrink fit units

JIS B 6339 BT 30 FORM AD

- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- Included in delivery: with back-up screw
- Cool Jet option available upon request

Short

INCH	Clamping Ø D1 [inch]	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
	Ø D2 [inch]	0.39"	0.39"	0.83"	0.83"	0.94"	0.94"	0.94"	1.06"	1.30"
	Ø D3 [inch]	-	-	1.06"	1.06"	1.26"	1.26"	1.26"	1.34"	1.65"
	L [inch]	0.35"	0.59"	1.42"	1.42"	1.65"	1.65"	1.85"	1.97"	2.05"
Length A [inch] Order No.	short 30.640	3.15"¹¹) 1/8Z	3.15" ¹⁾ 3/16Z	3.15" 1/4Z	3.15" 5/16Z	3.15" 3/8Z	3.15" 7/16Z	3.15" 1/2Z	3.15" 5/8Z	3.54" 3/4Z

Standard version, similar to DIN 69882-8

METRIC	Clamping Ø D1 [mm]	03	04	05	06	08	10	12	14	16	18	20
	Ø D2 [mm]	10	10	10	21	21	24	24	27	27	33	33
	Ø D3 [mm]	-	-	-	27	27	32	32	34	34	42	42
	L [mm]	09	12	15	36	36	42	47	47	50	50	52
Length A [mm]	short	801)	801)	801)	80	80	80	80	80	80	90	90
Order No.	30.640	03	04	05	06	08	10	12	14	16	18	20

Ultra Short

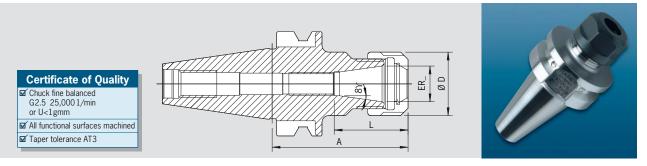
INCH	Clamping ØD1 [inch]	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"
	Ø D2 [inch]	0.39"	0.39"	0.91"	0.91"	1.06"	1.06"	1.06"	1.18"	1.39"
	L [inch]	0.35"	0.59"	1.42"	1.42"	1.65"	1.65"	1.85"	1.96"	1.96"
Length A [inch]	ultra short	2.36"1)	2.36"1)	2.36"	2.36"	2.36"	2.36"	2.36"	2.56"	2.75"
Order No.	30.645	1/8Z	3/16Z	1/4Z	5/16Z	3/8Z	7/16Z	1/2Z	5/8Z	3/4Z

Ultra Short

METRIC	Clamping Ø D1 [mm]	03	04	05	06	08	10	12	14	16	18	20
	Ø D2 [mm]	10	10	10	23	23	27	27	30	30	35,5	35,5
	L [mm]	09	12	15	36	36	42	47	47	50	50	52
Length A [mm]	ultra short	601)	601)	601)	60	60	60	60	65	65	70	70
Order No.	30.645	03	04	05	06	08	10	12	14	16	18	20

1) With slits along the clamping bore for cooling from outside, without back-up screw

ER COLLET CHUCK BT 30 · JIS B 6339



Use:

For clamping tools with cylindrical shank in ER collets

JIS B 6339 BT 30

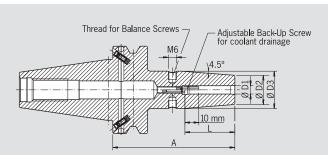
- Included in delivery: locknut (balanced, with slide coating for higher clamping forces);
- locknut type HS (High-Speed, fine balanced, with slide coating for higher clamping forces) against extra charge

INCH	ER	11	16	20	25
	Ø D [inch]	0.75"	1.10"	1.34"	1.65"
	Clamping range [inch]	0.02"-0.28"	0.02"-0.39	0.04"-0.51"	0.04"-0.63"
	L [inch]	1.05"	1.28"	1.52"	1.61"
Length A [inch]	ultrashort	1.97"	1.97"	1.97"	_
Order No.	30.525	11	16	20	
Length A [inch]	short	2.36"	2.36"	2.36"	2.36"
Order No.	30.520	11	16	20	25
Length A [inch]	long	3.94"	3.94"	3.94"	3.94"
Order No.	30.521	11	16	20	25

Accessories							See also accessories
Spare parts Chuck	nut, Pre-bala	nced					
ØER		E	ER11	ER16	ER20	ER25	
Order No.	83.912		11	16	20	25	
Spare parts Chuck	nut HS (High-	Speed), Fine-balanced					
ØER		E	ER11	ER16	ER20	ER25	
Order No.	83.912		11.HS	16.HS	20.HS	25.H	
Spare parts Wrenc	h						
ØER		5=	ER11	ER16	ER20	_	
Order No.	84.200		11	16	20		
Spare parts Wrenc	h						
ØER		5	_	_	_	ER25	
Order No.	84.200					25	
Spare parts Collet							
ØER							
See accessories		Ш					
Spare parts Pull St	uds						
ØER							
See accessories							

SHRINK FIT CHUCK BT 40 · JIS B 6339





Certificate of Quality

- ☑ Chuck body fine balanced G2.5 25,0001/min or U<1gmm
- ✓ All functional surfaces machined
- ☑ Coolant supply form ADB

Suitable for all shrinking units

JIS B 6339 **BT 40 FORM ADB**

Form ADB means: central coolant supply and coolant channels

through the flange which can be sealed again

- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- Included in delivery: Shrink fit chuck with back-up screw
- Tapped holes for balancing with set screws
- Cool Jet option available upon request

Standard version

INCH	Clamping	Ø D1 [inch]	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	7/8"	1"	1 1/4"
		Ø D2 [inch]	0.39"	0.39"	0.83"	0.83"	0.94"	0.94"	0.94"	1.06"	1.30"	1.30"	1.73"	1.73"
		Ø D3 [inch]	T-	-	1.06"	1.06"	1.26"	1.26"	1.26"	1.34"	1.65"	1.65"	2.09"	2.09"
		L [inch]	0.35"	0.59"	1.42"	1.42"	1.65"	1.65"	1.85"	1.97"	2.05"	2.05"	2.28"	2.28"
Length A [in Order No.	ch]	short 40.640	3.54" ¹⁾ 1/8Z	3.54"¹¹ 3/16Z	3.54" 1/4Z	3.54" 5/16Z	3.54" 3/8Z	3.54" 7/16Z	3.54" 1/2Z	3.54" 5/8Z	3.54" 3/4Z	3.54" 7/8Z	3.94" 1Z	3.94" 1 1/4Z
Length A [in Order No.	ch]	ZG 130 40.644	-	_	5.12" 1/4Z	5.12" 5/16Z	5.12" 3/8Z	5.12" 7/16Z	5.12" 1/2Z	5.12" 5/8Z	5.12" 3/4Z	5.12" 7/8Z	5.12" 1Z	5.12" 1 1/4Z
Length A [in Order No.	ch]	Oversize 40.642	-	_	6.30" 1/4Z	6.30" 5/16Z	6.30" 3/8Z	6.30" 7/16Z	6.30" 1/2Z	6.30" 5/8Z	6.30" 3/4Z	6.30" 7/8Z	6.30" 1Z	6.30" 1 1/4Z

Standard version, similar to DIN 69882-8

METRIC Clamping	Ø D1	03	04	05	06	08	10	12	14	16	18	20	25
	Ø D2 [mm]	10	10	10	21	21	24	24	27	27	33	33	44
	Ø D3 [mm]	-	-	-	27	27	32	32	34	34	42	42	53
	L [mm]	09	12	15	36	36	42	47	47	50	50	52	58
Length A [mm] Order No. 40.640	short	90¹) 03	90¹) 04	90 ¹⁾ 05	90 06	90 08	90 10	90 12	90 14	90 16	90 18	90 20	100 25
Length A [mm] Order No. 40.644	ZG130	-	-	-	130 06	130 08	130 10	130 12	130 14	130 16	130 18	130 20	130 25
Length A [mm] Order No. 40.642	extralong	-	-	-	160 06	160 08	160 10	160 12	160 14	160 16	160 18	160 20	160 25
Length A [mm] Order No. 40.646	ZG200	_	_	-	200 06	200 08	200 10	200 12	200 14	200 16	200 18	200 20	200 25

Accessories

Spare parts Pull Studs

See accessories

Spare parts Reduction Sleeves for small shanks

See accessories **Spare parts Balance Screws**

See accessories

See accessories

Spare parts Back-up screws

1) Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside Technical data and availability subject to change without prior notice

POWER SHRINK CHUCK BT40 · JIS B 6339









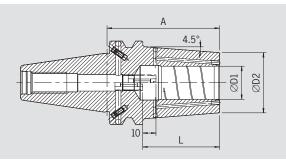


or U<1 gmm

☑ All functional surfaces machined

▼ Taper tolerance AT3

▼ Coolant supply form ADB





The Power Shrink Chuck is the shrink fit chuck for highest machining capacity in high-speed manufacturing. The optimized design combines high rigidity with dampening vibrations, therefore giving more protection to machines, spindles and tools.

- Increased machining capacity due to higher spindle speed, higher feed and larger cutting depth
- Shorter processing times
- Quieter running, therefore better surface quality and protection of tools, spindles and machines
- Higher machining accuracy
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock from Ø 12 mm

The long versions (A=130 and 160) with slim tips are especially versatile to use.

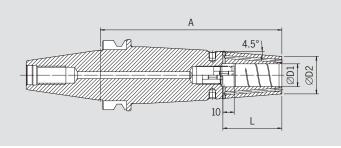
- High rigidity
- Slim at the tip
- Dampen vibrations
- High clamping force
- Equally suited to high-speed manufacturing and heavy milling
- Universal usage, saves space in tool magazine

CERTIFICATE OF QUALITY

☑ Chuck body fine balanced G2.5 25.000 1/min or U < 1 gmm

☑ All functional surfaces machined

▼ Taper tolerance AT3





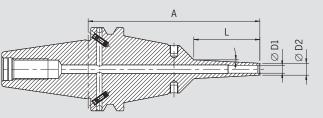
INCH	Clamping ∅ D1	[inch]	1/2"	5/8"	3/4"	1"	
	Ø D2 [inch]		1.04	1.16	1.39	1.80	
	L [inch]		1.85	1.97	2.05	2.28	
Length A [inch] Order No.	ultra short 40.645		2.76 1/2z.3	2.95 5/8z.3	2.95 3/4z.3	3.35 1z.3	

METRIC	Clamping ∅ D1	[mm]	06	08	10	12	14	16	18	20	25	32
	Ø D2 [mm] ultra	short	22	22	26.5	26.5	29.5	29.5	35.5	35.5	45.5	45.5
	Ø D2 [mm]		21	21	24	24	27	27	33	33	_	_
	L [mm] ultra sho	ort	36	36	42	47	47	50	50	52	58	58
	L [mm]		36	36	42	47	47	50	50	52	_	_
Length A [mm] Order No.	ultra short 40.645		70 06.3	70 08.3	70 10.3	70 12.3	75 14.3	75 16.3	75 18.3	75 20.3	85 25.3	85 32.3
Length A [mm] Order No.	ZG130 40.644		130 06.3	130 08.3	130 10.3	130 12.3	130 14.3	130 16.3	130 18.3	130 20.3	_	_
Length A [mm]	oversize		160	160	160	160	160	160	160	160		

POWER MINI SHRINK CHUCK BT40 · JIS B 6339



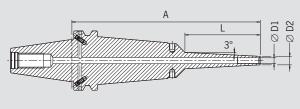




Power Mini Shrink Chuck is perfect for 5-axis-machining in the die & mould and in the medical industry. Very slim at the top like the HAIMER Mini Shrink Chucks, the Power Mini Shrink is reinforced at the base. Thereby efficient milling is possible with an angled tool even at long protruding lengths.

- 2 types: Standard (3 mm wall thickness) and extra slim (1,5 mm wall thickness)
- -3° slope at the top
- With threaded holes in order to balance with balancing screws
- For solid carbide tools with shank tolerance h6
- Attention: Shrinking only with shrink and cooling adapter





Certificate of Quality

Certificate of Quality

☑ Chuck body fine balanced
G2.5 25,000 1/min
or U<1gmm

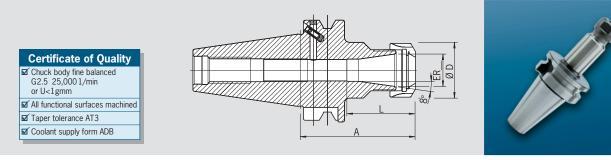
✓ All functional surfaces machined✓ Taper tolerance AT3✓ Coolant supply form ADB

- ☑ Chuck body fine balanced G2.5 25,0001/min or U<1gmm
- ☑ All functional surfaces machined
- ☑ Coolant supply form ADB

BT40

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

ER COLLET CHUCK BT 40 · JIS B 6339



Use:

For clamping tools with cylindrical shank in ER collets

BT 40 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

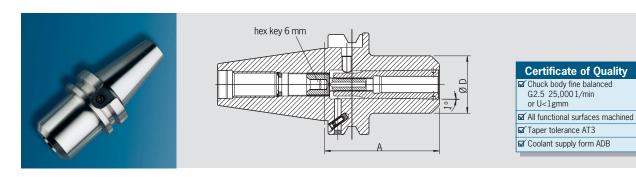
- Included in delivery: ER collet chuck with pre balanced chuck nut
- Balanced Chuck nuts with special slide coating for low friction and high clamping forces

INCH	Ø ER Ø D [inch] Clamping range [inch] Clamping range [mm]	ER16 1.1" 0.02"-0.39" 0.5-10	ER20 1.34" 0.04"-0.51" 1-13	ER25 1.65" 0.04"-0.63" 1-16	ER32 1.97" 0.04"-0.79" 1-20	ER40 2.48" 0.08"-1.02" 2-26
L [inch] Gage length A [inch] Order No.	short 40.520	2.76" 16	1.63" 2.76" 20	2.24" 2.76" 25	2.52" 2.76" 32	2.87" 2.76" 40
L [inch] Gage length A [inch] Order No.	long 100 40.521	3.94" 16	1.63" 3.94" 20	2.24" 3.94" 25	2.52" 3.94" 32	2.87" 3.94" 40
L [inch] Gage length A [inch] Order No.	extralong 160 40.522	6.30" 16	1.63" 6.30" 20	2.24" 6.30" 25	2.52" 6.30" 32	2.87" 6.30" 40

Accessories							
Spare parts Chuck r	ut, Pre-bala	nced					
Ø ER Order No.	83.912	E	ER16 16	ER20 20	ER25 25	ER32 32	ER40 40
Chuck nut HS (Highs	speed), Fine-	balanced					
Ø ER Order No.	83.912	E	ER16 16.HS	ER20 20.HS	ER25 25.HS	ER32 32.HS	ER40 40.HS
Spare parts Wrench							
Ø ER Order No.	84.200		ER16 16	ER20 20	-	_	-
Spare parts Wrench							
Ø ER Order No.	84.200	\triangleright	-	-	ER25 25	ER32 32	ER40 40
Spare parts Balanci	ng index ring	gs					
Ø ER long/extra long Order No.	79.350	igoplus	ER16 28	ER20 34	ER25 42	ER32 48	ER40 52
pare parts Collet							
See accessories							
Spare parts Pull Stu	ds						
See accessories							

1) Drilled through

HG COLLET CHUCK BT 40 · JIS B 6339



Use:

Newly developed TiN coated collets allow for extremely accurate clamping in HG chucks, making them very useful for high-speed cutting

BT 40 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again





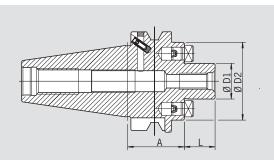
Runout accuracy < 0,00016««

INCH	HG	01	02	03
	Ø D [inch]	1.18"	1.38"	1.89"
	Clamping Ø shank tolerance h6 [inch]	0.08"-0.35"	0.39"-0.57"	0.63"-0.79"
Gage length A [inch] Order No.	short 40.620	2.56" 01	2.76" 02	2.95" 03
Gage length A [inch] Order No.	ZG130 40.624	5.12" 01	5.12" 02	5.12" 03

Accessories Spare parts Collet See accessories **Spare parts Locking Screw** 01 HG 02 03 short Order No. 82.560.. ...3 ...2 ...2 HG ZG130 01 02 03 Order No. 82.560... ...4 ...1 ...5 extralong160 01 02 03 HG Order No. 82.560... ...8 ...6 ...7 **Pull-out hook** HG 01 HG 02 HG 03 HG 82.570... Order No. ...00 ...00 ...00 Spare parts Balancing index rings 01 02 03 HG Order No. 79.350... ...30 ...35 ...48 Spare parts Pull Studs See accessories

FACE MILL HOLDER BT 40 · JIS B 6339







Use:

For clamping face-mill cutters

CAT 40 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

- Included in delivery: Face mill holder and clamping screw

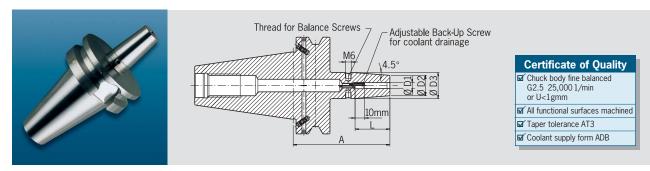
INCH	Clamping Ø D1 [inch]	3/4"	1"	1 1/4"	
	Ø D2 [inch]	1.71"	2.17"	2.75"	
	L [inch]	0.70"	0.70"	0.70"	
Gage length A [inch] Order No.	short 40.550	1.38" 3/4Z	1.97" 1Z	2.36" 1 1/4Z	
		·		·	
METRIC	Ø D1 [mm]	22	27	32	40
	Ø D2 [mm]	48	48	78	87
	L [mm]	19	21	24	27
Gage length A [mm]	short	35	35	50	60
Order No.	40.550	22	27	32	40

Accessories

Spare parts Clam	ping Screw					
ØD1 [inch]			3/4"	1"	1 1/4"	
Order No.	85.300		3/4Z	1Z	11/4Z	
Spare parts Wren	ch					
Ø D1 [inch]		L	3/4"	1"	1 1/4"	
Order No.	84.400		3/4Z	1Z	11/4Z	
Spare parts Balar	ncing index ring	gs				
Ø D1 [inch]		igoplus	3/4"	1"	-	
Order No.	79.350	$\mathbf{\Psi}$	1.71Z	55Z		
Spare parts Pull S	Studs	0.45				
Ø D1 [inch]	See accesso	ories 🔲 🗓				
Accessories						
Spare parts Clam	ping Screw					
Ø D1 [mm]			22	27	32	40
Order No.	85.300		22	27	32	40
Spare parts Wren	ch					
Ø D1 [mm]		•	22	27	32	40
Order No.	84.400	-	22	27	32	40
Spare parts Balar	ncing index ring	g				
Ø D1 [mm]			22	27	32	401)
Order No.	79.350	Ψ	48	48	78	87
Spare parts Pull S	Studs					
See accessories						

1) Not for 40.550.40

SHRINK FIT CHUCK BT50 · JIS B 6339



llse:

Suitable for all shrinking units

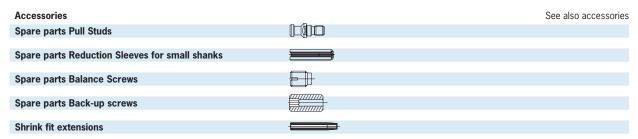
JIS B 6339 **BT 50 FORM ADB**

Form ADB means: central coolant supply and coolant channels through the flange which can be sealed again

- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- Included in delivery: Shrink fit chuck with back-up screw
- Tapped holes for balancing with set screws
- Cool Jet option available upon request

Standard version, similar to DIN 69882-8

METRIC	Clamping Ø D1 [mm]		06	08	10	12	14	16	18	20	25	32
	Ø D2 [mm]		21	21	24	24	27	27	33	33	44	44
	Ø D3 [mm]		27	27	32	32	34	34	42	42	53	53
	L [mm]		36	36	42	47	47	50	50	52	58	58
Length A [mm]	short		100	100	100	100	100	100	100	100	100	100
Order No.	50.640		06	08	10	12	14	16	18	20	25	32
Length A [mm]	extralong		160	160	160	160	160	160	160	160	160	160
Order No.	50.642		06	08	10	12	14	16	18	20	25	32
Length A [mm]	ZG200		200	200	200	200	200	200	200	200	200	200
Order No.	50.646		06	08	10	12	14	16	18	20	25	32



POWER SHRINK CHUCK BT50 · JIS B 6339

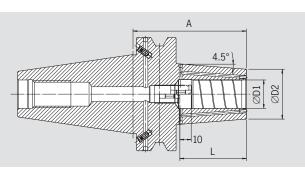












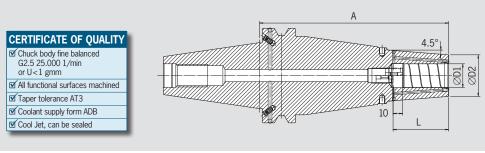


The Power Shrink Chuck is the shrink fit chuck for highest machining capacity in high-speed manufacturing. The optimized design combines high rigidity with dampening vibrations, therefore giving more protection to machines, spindles and tools.

- Increased machining capacity due to higher spindle speed, higher feed and larger cutting depth
- Shorter processing times
- Quieter running, therefore better surface quality and protection of tools, spindles and machines
- Higher machining accuracy
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock from \varnothing 12 mm

The long versions (A=160 and 200) with slim tips are especially versatile to use.

- High rigidity
- Slim at the tip
- Dampen vibrations
- High clamping force
- Equally suited to high-speed manufacturing and heavy milling
- Universal usage, saves space in tool magazine





INCH	Clamping ∅ D1 [inch]	1/2"	5/8"	3/4"	1"	
	Ø D2 [inch]	1.06	1.30	1.73	1.73	
	L [inch]	1.85	1.97	2.05	2.28	
Length A [inch] Order No.	short 50.640	3.94 1/2z.3	3.94 5/8z.3	3.94 3/4z.3	3.94 1z.3	

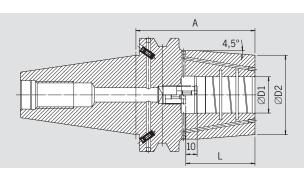
METRIC	Clamping ∅ D1 [mm]		06	08	10	12	14	16	18	20	25
	Ø D2 [mm]		21	21	27	27	33	33	44	44	44
	L [mm]		36	36	42	47	47	50	50	52	58
Length A [mm] Order No.	short 50.640		100 06.3	100 08.3	100 10.3	100 12.3	100 14.3	100 16.3	100 18.3	100 20.3	100 25.3
Length A [mm] Order No.	oversize 50.642		160 06.3	160 08.3	160 10.3	160 12.3	160 14.3	160 16.3	160 18.3	160 20.3	160 25.3
Length A [mm] Order No.	ZG200 50.646		200 06.3	200 08.3	200 10.3	200 12.3	200 14.3	200 16.3	200 18.3	200 20.3	200 25.3

HEAVY DUTY CHUCK BT50 · JIS B 6339









CERTIFICATE OF QUALITY

Chuck body fine balanced
G2.5 25.000 1/min
or U<1 gmm

All functional surfaces machined
Taper tolerance AT3
Coolant supply form ADB
Cool Jet, can be sealed

For heavy machining applications it is now possible to replace the Weldon tool holders finally. Heavy Duty Chuck is the shrink fit chuck for extreme cases. The contour is optimized for highest rigidity and clamping force.

- Smooth clamping of the tool shank
- No deflection of the tool shank at the clamping range
- High runout accuracy: 3 μm

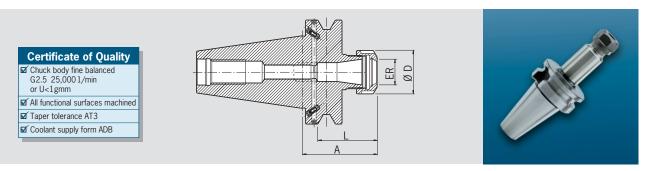
- Reinforced outer contour
- To shrink with high performance shrink fit unit HAIMER Power Clamp Profi Plus (20kW)
- With dirt groove in the clamping bore
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock

INCH	Clamping ∅ D1 [inch]	1"	1 1/4"	1 1/2"	2"
	Ø D2 [inch]	2.48	2.76	3.23	3.23
	L [inch]	2.28	2.40	3.46	3.46
Length A [inch] Order No.	short 50.650	4.13 1z.6	4.13 11/4z.6	4.53 11/2z.6	4.72 2z.6

METRIC	Clamping Ø D1 [mm]		16	20	25	32	40	50
	Ø D2 [mm]		51	58	63	70	82	82
	L [mm]		50	52	58	61	88	88
Length A [mm] Order No.	short 50.650		100 16.6	100 20.6	105 25.6	105 32.6	115 40.6	120 50.6
Length A [mm] Order No.	oversize 50.652		160 16.6	160 20.6	160 25.6	160 32.6	160 40.6	160 50.6
Length A [mm] Order No.	ZG200 50.656		200 16.6	200 20.6	200 25.6	200 32.6	200 40.6	200 50.6

All sizes can be upgraded with Safe-Lock! The Safe-Lock order number ends with ".67" (e.g. 50.650.25.67)

ER COLLET CHUCK BT50 · JIS B 6339



llse

For clamping tools with cylindrical shank in ER collets

BT 50 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

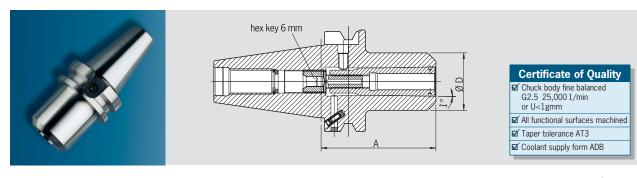
- Included in delivery: ER collet chuck with pre-balanced chuck nut
- Balanced Chuck nuts with special slide coating for low friction and high clamping forces

INCH	Ø ER Ø D [inch] Clamping range [inch] Clamping range [mm]	ER16 1.1" 0.02"-0.39" 0.5-10	ER25 1.65" 0.04"-0.63" 1-16	ER32 1.97" 0.04"-0.79" 1-20	ER40 2.48" 0.08"-1.02" 2-26
L [inch] Gage length A [inch] Order No.	short 1950.520	¹⁾ 2.76" 16	2.24" 2.76" 25	2.52" 2.76" 32	2.87" 3.15" 40
L [inch] Gage length A [inch] Order No.	long 100 50.521	3.94" 16	2.24" 3.94" 25	2.52" 3.94" 32	2.87" 3.94" 40
L [inch] Gage length A [inch] Order No.	extralong 160 8 50.522	6.30" 16	2.24" 6.30" 25	2.52" 6.30" 32	2.87" 6.30" 40

Accessories							See also accessories
Spare parts Chuck	nut, Pre-bala	ınced					
Ø ER		E	ER16	ER25	ER32	ER40	
Order No.	83.912		16	25	32	40	
Chuck nut HS (High	rspeed), Fine	-balanced					
Ø ER		E	ER16	ER25	ER32	ER40	
Order No.	83.912		16.HS	25.HS	32.HS	40.HS	
Spare parts Wrencl	h						
Ø ER		5	ER16	_	_	_	
Order No.	84.200		16				
Spare parts Wrencl	h						
Ø ER		<u>></u>	-	ER25	ER32	ER40	
Order No.	84.200			25	32	40	
Spare parts Balanc	ing index rin	gs					
Ø ER long/extralong			ER16	ER25	ER32	ER40	
Order No.	79.350	\oplus	28	42	48	52	
Spare parts Collet							
		₩					
See accessories		ИШ					
Spare parts Pull St	ud						
See accessories							
11.5 11.11.11							

1) Drilled through

HG COLLET CHUCK BT 50 · JIS B 6339



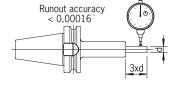
Use:

Newly developed TiN coated collets allow for extremely accurate clamping in HG chucks, making them very useful for high-speed cutting

BT 50 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

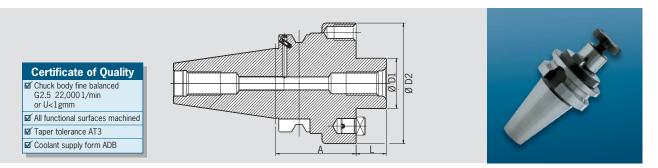
- Included in delivery: HG chuck with clamping screw and pull out hook



INCH	HG	01	02
	ØD [inch]	1.18"	1.38"
	Clamping Ø shank tolerance h6 [inch]	0.08"-0.35"	0.39"-0.57"
Gage length A [inch] Order No.	long 50.621	-	3.94" 02
Gage length A [inch] Order No.	extralong 160 50.622	6.30" 01	6.30" 02

Accessories							See also accessories	
Spare parts Collet								
See accessories								
Spare parts Clamp	ing Screw							
HG Order No.	long 82.560			01 4	02 1	03 5		
HG Order No.	extralong160 82.560) 🔲 🗀		01 8	02 6	03 7		
Pull-out hook								
HG Order No.	82.570			G 01 00	HG 02 00	HG 03 00		
Spare parts Balance	ing index ring	S						
HG Order No.	79.350	\bigoplus		01 30	02 35	03 48		
Spare parts Pull St	Spare parts Pull Studs							
See accessories								

FACE MILL HOLDER BT 50 · JIS B 6339



Use:

For clamping face-mill cutters

BT 50 FORM ADB

Form ADB means: central-coolant supply and coolant channels through the flange which can be sealed again

- Included in delivery: Face mill holder with clamping screw

METRIC	Ø D1 [mm]	22	27	32	40
	L [mm]	19	21	24	27
	Ø D2 [mm]	48	60	78	89
Gage length A [mm] Order No.	short 50.550	55 22	55 27	55 32	55 40
Gage length A [mm] Order No.	long 100 50.551	100 22	100 27	100 32	_

Accessories							See acces	ssories	
Spare parts Clar	mping Screw								
Ø D1 [mm] Order No.	85.300			22 22	27 27	32 32	40 40		
Spare parts Wre	ench								
Ø D1 [mm] Order No.	84.400	•		22 22	27 27	32 32	40 40		
Spare parts Bala		.							
Ø D1 [mm] Order No.	79.350	\oplus		22 ¹⁾ 48	27 ²⁾ 60	32 78	40 89		
Spare parts Pull	Spare parts Pull Studs								
See accessories									

1) Not for 50.550.22 2) Not for 50.550.27

Win safety with tool holders from HAIMER.





HSK

HSK-A32/40/50 DIN 69893-1

Shrink Fit Chuck HSK-A32	52
Shrink Fit Chuck HSK-A40	53
ER Collet Chuck HSK-A40	54
Face Mill Holder HSK-A40	55
Shrink Fit Chuck HSK-A50	56

HSK-A 63/DIN 69893-1

•	
Shrink Fit Chuck	57
Power Shrink Chuck	58
Heavy Duty Chuck	59
Power Mini Shrink	60
ER Collet Chuck	61
Power Collet Chuck	62
Accessories for	
Power Collet Chuck	63
HG Collet Chuck	64
Face Mill Holder	65

HSK-A 100/DIN 69893-1

Shrink Fit Chuck	66
Power Shrink Chuck	67
Heavy Duty Chuck	68
ER Collet Chuck	69
HG Collet Chuck	70
Face Mill Holder	71

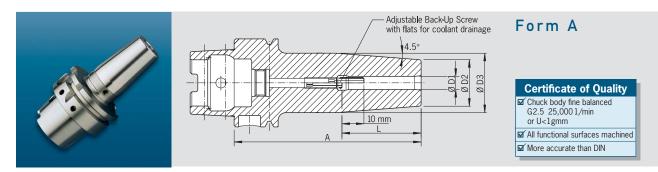
HSK-E 25/32/40/50 DIN 69893-5

Mini Shrink HSK-E25	72
Collet Chuck Mini ER HSK-E25	73
ER Collet Chuck HSK-E25	74
Shrink Fit Chuck HSK-E32	75
Mini Shrink HSK-E40	76
Shrink Fit Chuck HSK-E40	77
ER Collet Chuck HSK-E40	78
Mini Shrink HSK-E50	79
Shrink Fit Chuck HSK-E50	80
ER Collet Chuck HSK-E50	81
Face Mill Holder HSK-E50	82

HSK-F 63 DIN 69893-6

Shrink Fit Chuck	83
ER Collet Chuck	84
Face Mill Holder	85

SHRINK FIT CHUCK HSK-A 32 · DIN 69893-1



Use:Suitable for all shrinking units

DIN 69893-1

- Included in delivery: Shrink fit chuck with backup screw, without coolant tube
- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6

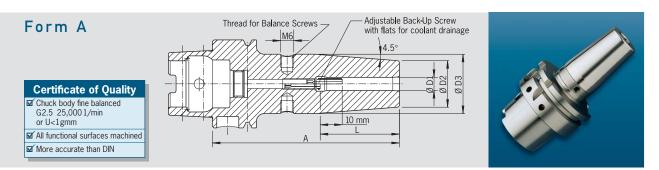
Standard version, similar to DIN 69882-8

METRIC	Clamping Ø D1	[mm]			03	04	05	06	08	10
	Ø D2 [mm]				10	10	10	21	21	24
	Ø D3 [mm]							27	27	32
	L [mm]				09	12	15	36	36	42
Form A 32										
Length A [mm] Order No.	short A32.140				60 ¹⁾ 03	60 ¹⁾ 04	60 ¹⁾ 05	70 06	70 08	80 10

Accessories									See	e also ac	cessories
Spare parts Cool	ant Tube										
Order No.	85.700		32	32	32	32	32	32	32	32	32
Spare parts Back	c up Screws										
See accessories											

1) Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside Technical data and availability subject to change without prior notice

SHRINK FIT CHUCK HSK-A 40 · DIN 69893-1



Use:

Suitable for all shrinking units

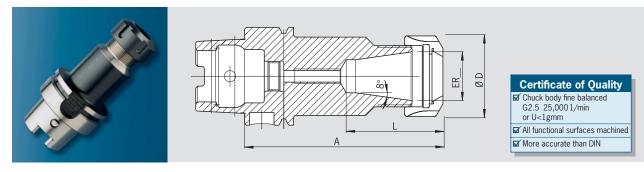
DIN 69893-1

- Tapped holes for balancing with set screws
- Included in delivery: Shrink fit chuck with backup screw, without coolant tube
- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6

INCH	Clamping Ø D1 [inch]	1/	/8"	3/16"	1/4	"	3/8"	1/2"	5,	/8"
	Nose Ø D2 [inch]	0.	39"	0.39"	0.8	3" (0.94"	0.94	' 1.	.06"
	O.D. Ø D3 [inch]	-		-	1.0	6"	1.26"	1.26	' 1.	.34"
Form A 40										
Length A [inch]	short	2.	.36"1)	2.36"1)	3.15	5" (3.15"	3.54"	3.	.54"
Order No.	A40.140	1	./8Z	3/16Z	1/-	4Z .	3/8Z	1/2Z	!	5/8Z
METRIC	Clamping Ø D1 [mm]	03	04	05	06	08	10	12	14	16
	Ø D2 [mm]	10	10	10	21	21	24	24	27	27

Clamping Ø D1 [mm]			04	05	06	U8	10	12	14	16
Ø D2 [mm]		10	10	10	21	21	24	24	27	27
Ø D3 [mm]		-	-	-	27	27	32	32	34	34
L [mm]		09	12	15	36	36	42	47	47	50
short		601)	601)	601)	80	80	80	90	90	90
A40.140		03	04	05	06	08	10	12	14	16
ZG130		-	_	_	130	130	130	130	_	_
A40.144					06	08	10	12		
	Ø D2 [mm] Ø D3 [mm] L [mm] short A40.140	Ø D2 [mm] Ø D3 [mm] L [mm] short A40.140 ZG130	Ø D2 [mm] 10 Ø D3 [mm] - L [mm] 09 short 60 ¹³ A40.140 03 ZG130 -	Ø D2 [mm] 10 10 Ø D3 [mm] - - L [mm] 09 12 short 60 ¹⁾ 60 ¹⁾ 60 ¹⁾ 60 ¹⁾ A40.140 03 04 ZG130 - -	Ø D2 [mm] 10 10 10 Ø D3 [mm] - - - L [mm] 09 12 15 short 60½ 60½ 60½ 60½ A40.140 03 04 05 ZG130 - - -	Ø D2 [mm] 10 10 10 21 Ø D3 [mm] - - - 27 L [mm] 09 12 15 36 short 60½ 60½ 60½ 80 A40.140 03 04 05 06 ZG130 - - - 130	Ø D2 [mm] 10 10 10 21 21 Ø D3 [mm] - - - 27 27 L [mm] 09 12 15 36 36 short 60¹¹ 60¹¹ 60¹¹ 80 80 A40.140 03 04 05 06 08 ZG130 - - - 130 130	Ø D2 [mm] 10 10 10 21 21 24 Ø D3 [mm] - - - - 27 27 32 L [mm] 09 12 15 36 36 42 short 60 ¹¹ 60 ¹¹ 80 80 80 A40.140 03 04 05 06 08 10 ZG130 - - - 130 130 130	Ø D2 [mm] 10 10 10 21 21 24 24 Ø D3 [mm] - - - 27 27 32 32 L [mm] 09 12 15 36 36 42 47 short 60 ¹¹ 60 ¹¹ 80 80 80 80 90 A40.140 03 04 05 06 08 10 12 ZG130 - - - 130 130 130 130	Ø D2 [mm] 10 10 10 21 21 24 24 27 Ø D3 [mm] - - - 27 27 32 32 34 L [mm] 09 12 15 36 36 42 47 47 short 60 ¹¹ 60 ¹¹ 80 80 80 80 90 90 A40.140 03 04 05 06 08 10 12 14 ZG130 - - - 130 130 130 130 -

¹⁾ Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside Technical data and availability subject to change without prior notice



Use:

For clamping tools with cylindrical shank in ER collets

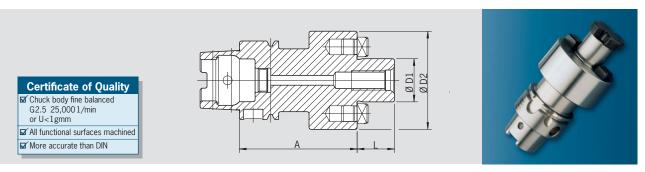
- Included in delivery: ER collet chuck with pre-balanced chuck nut
- Balanced chuck nuts with special slide coating for low friction and high clamping forces

INCH	Ø ER	ER11	ER16	ER25	ER32
	Ø D [inch]	0.75"	1.1"	1.65"	1.97"
	Clamping range [inch]	0.02"-0.28"	0.02"-0.39"	0.04"-0.63"	0.04"-0.79"
	Clamping range [mm]	0.5–7	0.5–10	1–16	1–20
L [inch] Gage length A [inch] Order No.	ultrashort A40.025	2) 2.36"1) 11	1.28" 2.36" ¹⁾ 16	1.61" 2.76" ¹⁾ 25	1.85" 2.76" ¹⁾ 32
L [inch] Gage length A [inch] Order No.	short 440.020	- - -	1.28" 3.15" 16	1.61" 3.15" 25	-

Accessories							See also accessories
Spare parts Chuck	nut, Pre-bala	anced					
Ø ER Order No.	83.912	E	ER11 11	ER16 16	ER25 25	ER32 32	
Spare parts Chuck	nut HS (High	speed), Fine-balanced					
Ø ER Order No.	83.912	E	ER11 11.HS	ER16 16.HS	ER25 25.HS	ER32 32.HS	
Spare parts Wrenc	h						
Ø ER Order No .	84.200		ER11 11	ER16 16	_	-	
Spare parts Wrench	h						
Ø ER Order No.	84.200		_	_	ER25 25	ER32 32	
Spare parts Balance	ing index ring	gs					
Ø ER Order No.	79.350	\oplus	ER11 19	ER16 28	ER25 32	ER32 40	
Spare parts Collet							
Ø ER See accessories							
Spare parts back-u	p screw						
Ø ER Order No.	85.800		_	ER16 34	ER25 34	ER32 35	
Spare parts Coolan	t Tube						
Ø ER Order No.	85.700		ER11 40	ER16 40	ER25 40	ER32 40	

1) Without thread for back-up screw 2) Drilled through

FACE MILL HOLDER HSK-A 40 · DIN 69882



Use:

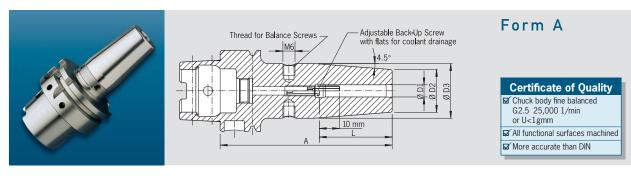
For clamping face-mill cutters

- Included in delivery: Face mill holder and clamping screw

METRIC	Ø D1 [mm]	16	22
	L [mm]	17	19
	Ø D2 [mm]	40	50
Gage length A [mm] Order No.	short A40.050	50 16	60 22

Accessories					See also accessories
Spare parts Clan	nping Screw				
Ø D1 [mm]			16	22	
Order No.	85.300		16	22	
Spare parts Wre	nch				
Ø D1 [mm]		•	16	22	
Order No.	84.400		16	22	
Spare parts Bala	ncing index ring	gs			
Ø D1 [mm]		\bigcirc	16	22	
Order No.	79.350	\bigoplus	40	50	
Spare parts Cool	lant Tube				
Ø D1 [mm]		Thurse .	16	22	
Order No.	85.700	4	40	40	

SHRINK FIT CHUCK HSK-A 50 · DIN 69893-1



Use:

Suitable for all shrinking units

DIN 69893-1

- Tapped holes for balancing with set screws
- Included in delivery: Shrink fit chuck with backup screw,

without coolant tube

- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- Cool Jet option available upon request

Standard version, similar to DIN 69882-8

METRIC	Clamping Ø D1 [r	nm]	03	04	05	06	08	10	12	14	16
	Ø D2 [mm]		10	10	10	21	21	24	24	27	27
	Ø D3 [mm]					27	27	32	32	34	34
	L [mm]		09	12	15	36	36	42	47	47	50
Form A 50											
Length A [mm] Order No.	short A50.140		60 ¹⁾ 03	60¹) 04	60¹) 05	80 06	80 08	85 10	90 12	90 14	95 16
Length A [mm] Order No.	ZG130 A50.144		-	-	-	130 06	130 08	130 10	130 12	-	130 16

Accessories See also accessories Spare parts Coolant Tube 79..... 85.700... **W**..... ...50 ...50 ...50 ...50 ...50 Order No. ...50 ...50 ...50 **Spare parts Set of Balance Screws** See accessories Spare parts Back up Screws See accessories

1) Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside Technical data and availability subject to change without prior notice

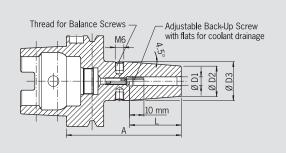
SHRINK FIT CHUCK HSK-A 63 · DIN 69893-1

Form A

Certificate of Quality

☑ Chuck body fine balanced G2.5 25,000 1/min or U<1gmm

■ All functional surfaces machined
■ More accurate than DIN





Use:

Suitable for all shrinking units

See accessories

- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6

- Tapped holes for balancing with set screws
- Fine-balancing by set screws possible
- Cool Jet option available upon request

INCH	Clamping Ø	D1 [inch] for	shank tolerance h6	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"	3/4"	1"	1 1/4"
	Ø D2 [inch]			0.39"	0.39"	0.83"	0.83"	0.94"	0.94"	0.94"	1.06"	1.3"	1.73"	1.73"
	Ø D3 [inch]			-	-	1.06"	1.06"	1.26"	1.26"	1.26"	1.34"	1.65"	2.09"	2.09"
	L [inch]			-	-	1.42"	1.42"	1.65"	1.65"	1.85"	1.97"	2.05"	2.28"	2.28"
Gage leng Order No	gth A [inch]).	short A63.140		3.15" ¹⁾ 1/8Z	3.15"1) 3/16Z		3.15" 5/16Z	3.35" 3/8Z		3.54" 1/2Z	3.74" 5/8Z	3.94" 3/4Z	4.53" 1Z	4.72" 1 1/4Z
Gage leng	gth A [inch]).	ZG130 A63.144		-	-	5.12" 1/4Z	5.12" 5/16Z	5.12" 3/8Z	-	5.12" 1/2Z	5.12" 5/8Z	5.12" 3/4Z	-	-
Gage leng	gth A [inch]).	extralong 160 A63.142)	-	-	6.30" 1/4Z	6.30" 5/16Z	6.30" 3/8Z	-	6.30" 1/2Z	6.30" 5/8Z	6.30" 3/4Z	6.30" 1Z	-

METRIC Clamping (Ø D2 [mm] Ø D3 [mm] L [mm]		r shank tolerance h6	03 10 19.6 9	04 10 19.6 12	05 10 19.6 15	06 21 27 36	08 21 27 36	10 24 32 42	12 24 32 47	16 27 34 50	20 33 42 52	25 44 53 58	32 44 53 58
Gage length A [mm] Order No.	short A63.140		80¹) 03	80 ¹⁾ 04	80 ¹⁾ 05	80 06	80 08	85 10	90 12	95 16	100 20	115 25	120 32
Gage length A [mm] Order No.	ZG130 A63.144		-	-	-	130 06	130 08	130 10	130 12	130 16	130 20		
Gage length A [mm] Order No.	extralong 16 A63.142		-	-	-	160 06	160 08	160 10	160 12	160 16	160 20		

Accessories See also accessories Spare parts Coolant Tube Order No. 85.700... ...63 ...63 ...63 ...63 ...63 ...63 ...63 ...63 ...63 **Spare parts Set of Balance Screws** See accessories Spare parts Back up screws

1) Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside Technical data and availability subject to change without prior notice

POWER SHRINK CHUCK HSK-A 63 · DIN 69893-1

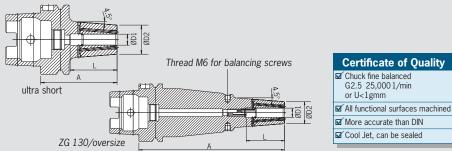












The long versions (A=130 and 160) with slim tips are especially versatile to use.

- High rigidity
- Slim at the tip
- Vibration dampening
- High clamping force
- Equally suited to High Speed Machining and heavy milling operations
- Universal usage, saves space in tool magazine

The Power Shrink Chuck is the shrink fit chuck for maximum capacity in High Speed Machining. The optimized design combines high rigidity with vibration dampening, therefore giving more protection to machines, spindles and tools.

- Increased machining capacity due to higher spindle speed, higher feed and larger cutting depth
- Shorter processing times
- Quieter running, therefore better surface quality and protection of tools, spindles and machines
- Higher machining accuracy
- Cool Jet bores are standard and can be re-sealed

INCH	Ultra short Clamp Ø D2 [inch]	oing ØD1 [inch]	1/4" 0.87"	5/16" 0.87"	3/8" 1.04"	1/2" 1.04"	5/8" 1.16"	3/4" 1.40"	1" 1.77"	1 1/4"
	L [inch]		1.50"	1.50"	1.69"	1.81"	1.93"	1.93"	2.24"	2.32"
Gage Length A [inch]	ultra short		2.76"	2.76"	2.76"	2.76"	2.95"	2.95"	3.35"	3.35"
Order No.	A63.145		1/4Z.3	5/16Z.3	3/8Z.3	1/2Z.3	5/8Z.3	3/4Z.3	1Z.3	1 1/4Z.3
INCH	ZG 130 Oversize	Clamping ØD1 [inch]	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"		
	Ø D2 [inch]		0.83"	0.83"	0.94"	0.94"	1.06"	1.30"		
	L [inch]		1.42"	1.42"	1.65"	1.85"	1.97"	2.05"		
Gage Length A [mm]	ZG 130		5.12"	5.12"	5.12"	5.12"	5.12"	5.12"		
Order No.	A63.144		1/4Z.3	5/16Z.3	3/8Z.3	1/2Z.3	5/8Z.3	3/4Z.3		
Gage Length A [inch]	ZG 130		6.30"	6.30"	6.30"	6.30"	6.30"	6.30"		
Order No.	A63.142		1/4Z.3	5/16Z.3	3/8Z.3	1/2Z.3	5/8Z.3	3/4Z.3		

METRIC	Ultra short Clamp Ø D2 [mm] ultrasl L [mm] ultrashort	nort	06 22 38	08 22 38	10 26.5 43	12 26.5 46	14 29.5 46	16 29.5 49	18 35.5 49	20 35.5 49	25 45 57	32 45 59
Length A [mm] Order No.	ultra short A63.145		70 06.3	70 08.3	70 10.3	70 12.3	70 14.3	75 16.3	75 18.3	75 20.3	85 25.3	85 32.3
METRIC ZG 130	Oversize Clampin	g Ø D1 [mm]	06	08	10	12	14	16	18	20	25	32
	Ø D2 [mm]		21	21	24	24	27	27	33	33	44	44
	L [mm]		36	36	42	47	47	50	50	52	58	58
Length A [mm]	ZG 130		130	130	130	130	130	130	130	130	130	130
Order No.	A63.144		06.3	08.3	10.3	12.3	14.3	16.3	18.3	20.3	25.3	32.3
Length A [mm]	oversize		160	160	160	160	160	160	160	160	160	160
Order No.	A63.142		06.3	08.3	10.3	12.3	14.3	16.3	18.3	20.3	25.3	32.3

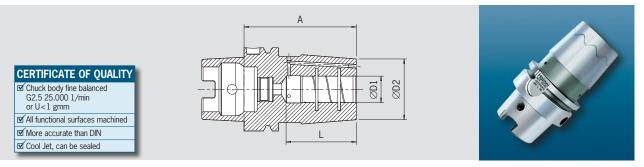
Can be upgraded with Safe-Lock from Ø12! The Safe-Lock order number ends with ".37" (e.g. A63.142.12.37)

Technical data and availability subject to change without prior notice

HEAVY DUTY CHUCK HSK-A 63 · DIN 69893-1







For heavy machining applications it is now possible to replace the Weldon tool holders finally. Heavy Duty Chuck is the shrink fit chuck for extreme cases. The contour is optimized for highest rigidity and clamping force.

- Smooth clamping of the tool shank
- No deflection of the tool shank at the clamping range
- High runout accuracy: 3 μm

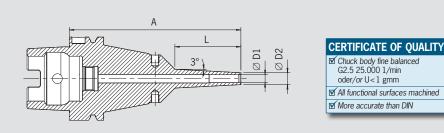
- Reinforced outer contour
- To shrink with HAIMER Power Clamp 13 kW shrink fit machine
- With dirt groove in the clamping bore
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock

METRIC	Clamping ∅ D1 [mm]	16	20
	Ø D2 [mm]	46	46
	L [mm]	51	53
Length A [mm] Order No.	short A63.140	85 16.6	85 20.6

All sizes can be upgraded with Safe-Lock! The Safe-Lock order number ends with ".67" (e.g. A63.140.20.67)

POWER MINI SHRINK CHUCK HSK-A 63 · DIN 69893-1

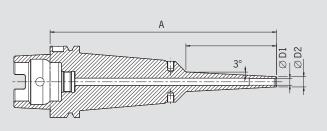




The Power Mini Shrink Chuck is perfect for 5-axis-machining in the die & mould and in the medical industry. Very slim at the top like the HAIMER Mini Shrink Chucks, the Power Mini Shrink is reinforced at the base. Thereby efficient milling is possible with an angled tool even at long protruding lengths.

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





CERTIFICATE OF QUALITY

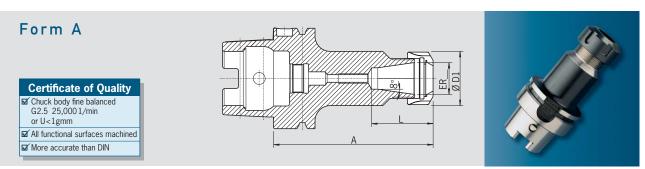
☑ Chuck body fine balanced G2.5 25.000 1/min oder/or U<1 gmm

☑ All functional surfaces machined

✓ More accurate than DIN

HSK-A63

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 slir	n	06	07	08	09	11	13	15	_
	L [mm] ZG130		50	50	50	50	50	50	50	50
	L [mm]		80	80	80	80	80	80	80	80
Length A [mm] Order No. Order No.	ZG130 standard extra slim	A63.184 A63.174	130 03.8 03.8	130 04.8 04.8	130 05.8 05.8	130 06.8 06.8	130 08.8 08.8	130 10.8 10.8	130 12.8 12.8	130 16.8
Length A [mm] Order No. Order No.	oversize standard extra slim	A63.182 A63.172	160 03.8 03.8	160 04.8 04.8	160 05.8 05.8	160 06.8 06.8	160 08.8 08.8	160 10.8 10.8	160 12.8 12.8	160 16.8
Length A [mm] Order No. Order No.	ZG200 standard extra slim	A63.186 A63.176	200 03.8 03.8	200 04.8 04.8	200 05.8 05.8	200 06.8 06.8	200 08.8 08.8	200 10.8 10.8	200 12.8 12.8	200 16.8



Use:

For clamping tools with cylindrical shank in ER collets

- Included in delivery: ER collet chuck with pre-balanced chuck nut
- Balanced chuck nuts with special slide coating for low friction and high clamping forces



without thread for back-up screw

INCH	ØER	ER11	ER16	ER20	ER25	ER32	ER40
	ØD [inch]	0.75"	1.1"	1.34"	1.65"	1.97"	2.48"
	Clamping range [inch]	0.02"-0.28"	0.02"-0.39"	0.04"-0.51"	0.04"-0.63"	0.04"-0.79"	0.08"-1.02"
	Clamping range [mm]	0.5–7	0.5–10	1–13	1–16	1–20	2–26
L [inch] Gage length A [inch] Order No.	extrashort A63.025	0.79" 2.95" 11	1.42" 2.95" 16	- 2.95" 20	1.42" 2.95" 25	1.34" 2.95" 32	1.50" 3.35" 40
L [inch] Gage length A [inch] Order No.	short 43.020	3.94" 11	0.87" 3.94" 16	-	1.14" 3.94" 25	1.34" 3.94" 32	1.50" 4.72" 40
L [inch] Gage length A [inch] Order No.	extralong 160 • • • • • • • • • • • • • • • • • • •	-	0.87" 6.30" 16	-	1.14" 6.30" 25	1.34" 6.30" 32	1.50" 6.30" 40

Accessories							See	also accessories
Spare parts Chuck	nut, Pre-bala	inced						
Ø ER Order No.	83.912	E	ER11 11	ER16 16	ER20 20	ER25 25	ER32 32	ER40 40
Spare parts Chuck	nut HS (High	speed), Fine-balanced						
Ø ER Order No.	83.912	E	ER11 11.HS	ER16 16.HS	ER20 20.HS	ER25 25.HS	ER32 32.HS	ER40 40.HS
Spare parts Wrench	h							
Ø ER Order No.	84.200	5	ER11 11	ER16 16	ER20 20	_	_	_
Spare parts Wrench	h							
Ø ER Order No.	84.200		-	-	-	ER25 25	ER32 32	ER40 40
Spare parts Balanc	ing index ring	gs						
Ø ER Order No.	79.350	\bigoplus	ER11 19	ER16 28	ER20 34	ER25 42	ER32 48	ER40 50
Spare parts Collet								
Ø ER See accessories								
Spare parts Adjusti	ng Screw							
Ø ER Order No.	85.800		-	ER16 34	ER20 34	ER25 34	ER32 35	ER40 35
Spare parts Coolan	t Tube							
Ø ER Order No.	85.700		ER11 63	ER16 63	ER20 63	ER25 63	ER32 63	ER40 63

POWER COLLET CHUCK HSK-A63 · DIN 69893-1

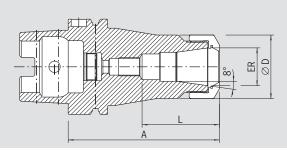












CERTIFICATE OF QUALITY

☑ Chuck body fine balanced G2.5 25.000 1/min or U<1 gmm

☑ All functional surfaces machined ☑ More accurate than DIN

The Power Collet Chuck is the collet chuck for the highest machining capacity in high-speed manufacturing. The optimized design with better construction combines high rigidity with vibration dampening features, giving more protection to machines, spindles and tools. The universal Power Collet Chuck is a unique high performance chuck that can also be used with standard collets.

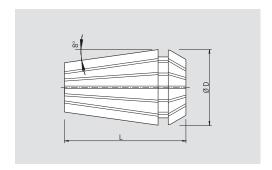
- High runout accuracy: 0.005 mm at 3×D with HAIMER Power Collets
- Also for standard collets ER according to ISO 15488 (formerly DIN 6499)
- High rigidity
- Smoother running thanks to vibration absorbing geometry, therefore better surface quality and protection of tools, spindles and machines
- Increased machining capacity due to higher spindle speed, higher feed and larger cutting depth
- Shorter processing times
- Higher machining accuracy
- High clamping force
- Equally suited to high-speed manufacturing and heavy milling

INCH	ER	16	25	32
	Ø D [inch]	1.1	1.65	1.89
	Clamping range [inch]	1/8"-3/8"	1/8"-5/8"	1/8"-3/4"
	L [inch] ultra short	1.69	1.97	1.87
Length A [inch] Order No.	ultra short A63.025	2.95 16.3	2.95 25.3	2.95 32.3
	L [inch]	1.69	2.01	2.09
Length A [inch] Order No.	short A63.020	3.94 16.3	3.94 25.3	3.94 32.3
Length A [inch] Order No.	oversize A63.022	6.30 16.3	6.30 25.3	6.30 32.3



Standard ER Collet

- For general machining

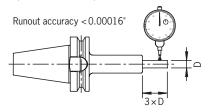


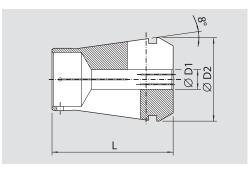


Power ER Collet

- For ultra precision machining

High runout accuracy (0.005 mm at 3×D)

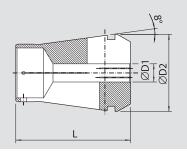




Technical data and availability subject to change without prior notice

ACCESSORIES FOR POWER COLLET CHUCK

- High runout accuracy: 0.005 mm at 3 x D
- Superior clamping strength
- Fits HAIMER Power Collet Chucks
- For cylindrical shanks with tolerance h10





Clamping Ø D1	[mm]	Ø D1
Order No.	81.163.02	2 mm
	81.163.03	3 mm
	81.163.04	4 mm
	81.163.05	5 mm
	81.163.06	6 mm
	81.163.08	8 mm
	81.163.10	10 mm

Clamping Ø D1	[mm]	Ø D1
Order No.	81.253.02	2 mm
	81.253.03	3 mm
	81.253.04	4 mm
	81.253.05	5 mm
	81.253.06	6 mm
	81.253.08	8 mm
	81.253.10	10 mm
	81.253.12	12 mm
	81.253.14	14 mm
	81.253.16	16 mm

Clamping Ø D1	[mm]	Ø D1
Order No.	81.323.02	2 mm
	81.323.03	3 mm
	81.323.04	4 mm
	81.323.05	5 mm
	81.323.06	6 mm
	81.323.08	8 mm
	81.323.10	10 mm
	81.323.12	12 mm
	81.323.14	14 mm
	81.323.16	16 mm
	81.323.18	18 mm
	81.323.20	20 mm

Clamping Ø D1	[in]	Ø D1
Order No.	81.163.1/8z	1/8"
	81.163.3/16z	3/16"
	81.163.1/4z	1/4"
	81.163.5/16z	5/16"
	81.163.3/8z	3/8"
_		

Clamping Ø D1	[in]	Ø D1
Order No.	81.253.1/8z	1/8"
	81.253.3/16z	3/16"
	81.253.1/4z	1/4"
	81.253.5/16z	5/16"
	81.253.3/8z	3/8"
	81.253.7/16z	7/16"
	81.253.1/2z	1/2"
	81.253.9/16z	9/16"
	81.253.5/8z	5/8"
_		

Clamping Ø D1	[in]	Ø D1
Order No.	81.323.1/8z	1/8"
	81.323.3/16z	3/16"
	81.323.1/4z	1/4"
	81.323.5/16z	5/16"
	81.323.3/8z	3/8"
	81.323.7/16z	7/16"
	81.323.1/2z	1/2"
	81.323.9/16z	9/16"
	81.323.5/8z	5/8"
	81.323.3/4z	3/4"



Clamping wrench

Clamping wrench and torque wrench for Power Collet Chucks:

- For highest runout accuracy, no one-sided clamping
- Optimal power transmission by constant force application
- Torque wrench for highest clamping and repeatability with dial gauge
- Maximum torque for highest clamping force
- No overloading of smaller clamping diameters
- Changeable inserts, useable also for standard ER-Collets



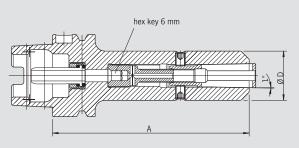
Torque wrench

Accessories				
Clamping wrenc	h			
Size		ER 16	ER 25	ER 32
Order No.	84.650	16	25	32
Torque wrench				
Order No. 84.600	0.00)		
Torque wrench in	nserts			
Size		ER 16	ER 25	ER 32
For Power Collet	t Chucks			
Order No.	84.610	16	25	32
For standard ER	chucks			
Order No.	84.620	16	25	32

Technical data subject to change without prior notice

HG COLLET CHUCK HSK-A 63 · DIN 69893-1





Form A

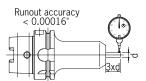
Certificate of Quality

☑ Chuck body fine balanced G2.5 25,000 1/min or U<1gmm

Use:

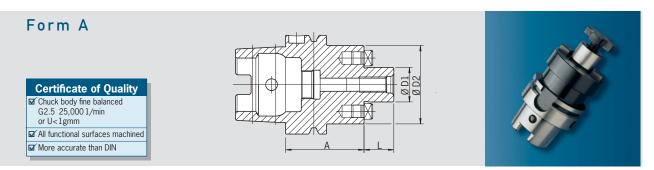
Newly developed TiN coated collets allow for extremely accurate clamping in HG chucks, making them very useful for high-speed cutting

- Included in delivery: HG chuck with clamping screw and pull out hook



INCH HG		01	02	03
Ø D [inch]		1.18"	1.38"	1.89"
Clamping	range [inch] shank tolerance h6	0.08"-0.35"	0.375"-0.57"	0.625"-0.79"
Gage length A [inch] Order No.	short A63.120	4.72" 01	4.72" 02	4.72" 03
Gage length A [inch] Order No.	extralong 160 A63.122	6.30" 01	6.30" 02	6.30" 03

Accessories						See als	o accessorie
Spare parts Col	let						
HG See accessories							
Spare parts Loc	king Screw						
HG Order No.	short 82.560		HG 01 2	HG 02 14	HG 03 14		
HG Order No.	extralong160 82.560		HG 01	HG 02 1	HG 03		
Spare parts Bal	ancing index rings						
HG Order No.	79.350	\oplus	HG 01 30	HG 02 35	HG 03		
Spare parts Coo	olant Tube						
HG Order No.	85.700		HG 01 63	HG 02 63	HG 03 63		



Use:

Order No.

1

85.700...

- Included in delivery: Face mill holder with clamping screw

For clamping face-mill cutters

INCH	Ø D1 [inch]	3/4"	1"	1 1/4"	1 1/2"
	L [inch] Ø D2 [inch]	0.70" 1.71"	0.70" 2.17"	0.70" 2.75"	0.94" 3.78"
	נווטען בע ש	1./1	2.17	2./3	3.76
Gage length A [inch] Order No.	short A63.050	1.97" 3/4Z	2.36" 1Z	2.36" 1 1/4Z	2.36" 1 1/2Z
Gage length A [inch] Order No.	long 100 A63.051	3.94" 3/4Z	3.94" 1Z	3.94" 1 1/4Z	3.94" 1 1/2Z
Gage length A [inch] Order No.	extralong 160 A63.052	6.30" 3/4Z	6.30" 1Z	-	-

METRIC	Ø D1 [mm]	16	22	27	32	40
	L [mm]	17	19	21	24	27
	Ø D2 [mm]	40	50	60	78	87
Gage length A [mm] Order No.	short A63.050	50 16	50 22	60 27	60 32	60 40
Gage length A [mm] Order No.	long 100 A63.051	-	100 22	100 27	100 32	100 40
Gage length A [mm] Order No.	extralong 160 A63.052	-	160 22	160 27	160 32	-

Accessories							See also accessories
Spare parts Clan	nping Screw						
ØD1 [inch]			3/4"	1"	1 1/4"	1 1/2"	
Order No.	85.300		3/4Z	1Z	11/4Z	11/2Z	
Spare parts Wrei	nch						
Ø D1 [inch]		1	3/4"	1"	1 1/4"	1 1/2"	
Order No.	84.400		3/4Z	1Z	11/4Z	11/2Z	
Spare parts Bala	ncing index ring						
ØD1 [inch]			3/4"	1"	_	_	
Order No.	79.350	\oplus	1.71Z	55			
Spare parts Cool	lant Tube						
ØD1 [inch]			3/4"	1"	1 1/4"	1 1/2"	
Order No.	85.700		63	63	63	63	
Accessories							See also accessories
Spare parts Clan	nping Screw						
Ø D1 [mm]		_A	16	22	27	32	40
Order No.	85.300		16	22	27	32	40
Spare parts Wrei	nch						
Ø D1 [mm]		•	16	22	27	32	40
Order No.	84.400	•	16	22	27	32	40
Spare parts Bala	ncing index ring						
Ø D1 [mm]		\bigcirc	16	22	27	32	40
Order No.	79.350	Ψ	40	50	60	78	87
Spare parts Cool	lant Tube						
Ø D1 [mm]		Garage .	16	22	27	32	40

Technical data and availability subject to change without prior notice

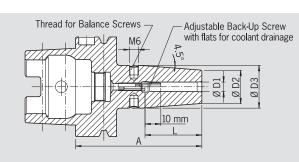
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SHRINK FIT CHUCK HSK-A 100 · DIN 69893-1





Form A

Certificate of Quality

☑ Chuck body fine balanced G2.5 25,000 1/min or U<1gmm

☑ All functional surfaces machined☑ More accurate than DIN

Use:

Suitable for all shrinking units

- Heat resistant hot-working steel
- Hardened 54-2 HRC

- For HSS and solid carbide tools
- Shank tolerance h6
- Tapped holes for balancing with set screws
- Fine-balancing by set screws possible
- Cool Jet option available upon request

INCH	Clamping Ø	D1 [inch] for shank tolerance h6	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"	1 1/4"
	Ø D2 [inch]		0.83"	0.83"	0.94"	0.94"	1.06"	1.30"	1.73"	1.73"
	Ø D3 [inch]		1.06"	1.06"	1.26"				2.09"	2.09"
	L [inch]		1.42"	1.42"	1.65"	1.85"	1.97"	2.05"	2.28"	2.28"
Gage length A [inch]	short		3.35"	3.35"	3.54"	3.74"	3.94"	4.13"	4.53"	4.72"
Order No.	A10.140	<u></u>	1/4Z	5/16Z	3/82	1/2Z	5/82	3/4Z	12	1 1/4Z
Gage length A [inch]	ZG130		5.12"	5.12"	5.12"	5.12"	5.12"	5.12"	5.12"	5.12"
Order No.	A10.144		1/4Z	5/16Z	3/8Z	1/2Z	5/8Z	3/4Z	1Z	1 1/4Z
Gage length A [inch]	extralong 160		6.30"	6.30"	6.30"	6.30"	6.30"	6.30"	6.30"	6.30"
Order No.	A10.142		1/4Z	5/16Z	3/8Z	1/2Z	5/8Z	3/4Z	1Z	1 1/4Z
Gage length A [inch]	200		7.87"	_	7.87"	7.87"	_	_	7.87"	_
Order No.	A10.146		1/4Z		3/8Z	1/2Z			1Z	

METRIC	Clamping Ø D1 [mm] for shank tolerance h6	06	08	10	12	16	20	25	32
	Ø D2 [mm]	21	21	24	24	27	33	44	44
	Ø D3 [mm]	27	27	32	32	34	42	53	53
	L [mm]	36	36	42	47	50	52	58	58
Gage length A [mm] Order No.	short A10.140	85 06	85 08	90 10	95 12	100 16	105 20	115 25	120 32
Gage length A [mm] Order No.	ZG130 A10.144	130 06	130 08	130 10	130 12	130 16	130 20	130 ¹⁾ 25	130 ¹⁾ 32
Gage length A [mm] Order No.	extralong 160 A10.142	160 06	160 08	160 10	160 12	160 16	160 20	160 25	160 32

Accessories									See	also acc	cessories
Spare parts Coolant Tube		3									
Order No. 85.700		4	10	10	10	10	10	10	10	10	10
Spare parts Reduction Sleeves	for small shanks										
See accessories											
Spare parts Set of Balance Scr	ews										
See accessories											
Spare parts Back up screws		<i>[[]]</i>									
See accessories											

1) On request

POWER SHRINK CHUCK HSK-A 100 · DIN 69893-1

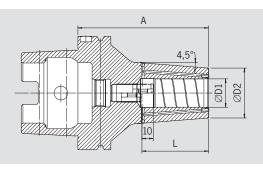












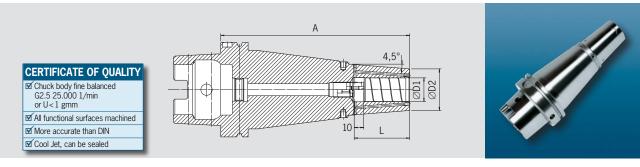


The Power Shrink Chuck is the shrink fit chuck for highest machining capacity in high-speed manufacturing. The optimized design combines high rigidity with dampening vibrations, therefore giving more protection to machines, spindles and tools.

- Increased machining capacity due to higher spindle speed, higher feed and larger cutting depth
- Shorter processing times
- Quieter running, therefore better surface quality and protection of tools,
 - spindles and machines
- Higher machining accuracy
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock from \varnothing 12 mm

The long versions (A=160 and 200) with slim tips are especially versatile to use.

- High rigidity
- Slim at the tip
- Dampen vibrations
- High clamping force
- Equally suited to high-speed manufacturing and heavy milling
- Universal usage, saves space in tool magazine



INCH	Clamping Ø D1 [inch]	1/2"	5/8"	3/4"	1"	
	Ø D2 [inch]	1.06	1.3	1.73	1.73	
	L [inch]	1.85	1.97	2.05	2.28	
Length A [inch] Order No.	short A10.140	3.74 1/2z.3	3.94 5/8z.3	4.13 3/4z.3	4.53 1z.3	

METRIC	Clamping ∅ D1	[mm]	06	08	10	12	14	16	18	20	25
	Ø D2 [mm]		21	21	27	27	33	33	44	44	44
	L [mm]		36	36	42	47	47	50	50	52	58
Length A [mm] Order No.	short A10.140		85 06.3	85 08.3	90 10.3	95 12.3	95 14.3	100 16.3	100 18.3	105 20.3	115 25.3
Length A [mm] Order No.	oversize A10.142		160 06.3	160 08.3	160 10.3	160 12.3	160 14.3	160 16.3	160 18.3	160 20.3	160 25.3
Length A [mm] Order No.	ZG200 A10.146		200 06.3	200 08.3	200 10.3	200 12.3	200 14.3	200 16.3	200 18.3	200 20.3	200 25.3

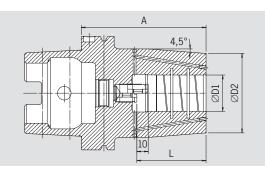
Can be upgraded with Safe-Lock from \varnothing 12! The Safe-Lock order number ends with ".37" (e.g. A10.142.12.37)

HEAVY DUTY CHUCK HSK-A 100 · DIN 69893-1









CERTIFICATE OF QUALITY

☑ Chuck body fine balanced G2.5 25.000 1/min or U<1 gmm

✓ All functional surfaces machined

More accurate than DIN

For heavy machining applications it is now possible to replace the Weldon tool holders finally. Heavy Duty Chuck is the shrink fit chuck for extreme cases. The contour is optimized for highest rigidity and clamping force.

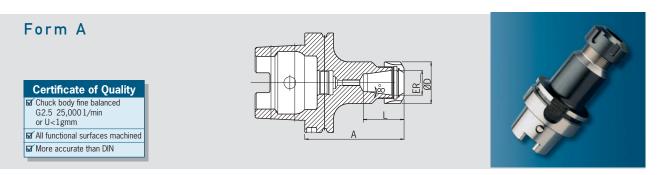
- Smooth clamping of the tool shank
- No deflection of the tool shank at the clamping range
- High runout accuracy: 3 μm
- Reinforced outer contour
- To shrink with high performance shrink fit unit HAIMER Power Clamp Profi Plus (20 kW)
- With dirt groove in the clamping bore
- Cool Jet bores that can be sealed included
- Optional with Safe-Lock

INCH	Clamping ∅ D1 [inch]	1"	1 1/4"	1 1/2"	2"
	Ø D2 [inch]	2.48	2.76	3.22	3.22
	L [inch]	2.28	2.4	3.46	3.46
Length A [inch] Order No.	short A10.150	4.33 1z.6	4.33 11/4z.6	5.51 11/2z.6	5.51 2z.6

METRIC	Clamping Ø D1 [r	nm]	16	20	25	32	40	50
	Ø D2 [mm]		51	58	63	70	82	82
	L [mm]		50	52	58	61	88	88
Length A [mm] Order No.	short A10.150		100 16.6	100 20.6	110 25.6	110 32.6	140 40.6	140 50.6
Length A [mm] Order No.	oversize A10.152		160 16.6	160 20.6	160 25.6	160 32.6	160 40.6	160 50.6
Length A [mm] Order No.	ZG200 A10.156		200 16.6	200 20.6	200 25.6	200 32.6	200 40.6	200 50.6

All sizes can be upgraded with Safe-Lock! The Safe-Lock order number ends with ".67" (e.g. A10.152.25.67)

ER COLLET CHUCK HSK-A 100 · DIN 69893-1



Use:

For clamping tools with cylindrical shank in ER collets

- Included in delivery: ER collet chuck with pre-balanced chuck nut
- Balanced chuck nuts with special slide coating for low friction and high clamping forces

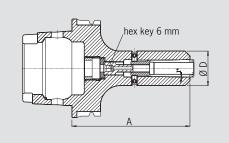
INCH	ØER	ER16	ER20	ER25	ER32	ER40
	Ø D [inch]	1.1"	1.34"	1.65"	1.97"	2.48"
	Clamping range [inch]	0.02"-0.39"	0.04"-0.51"	0.04"-0.63"	0.04"-0.79"	0.08"-1.02"
	Clamping range [inch]	0.5–10	1–13	1–16	1–20	2–26
L [inch] Gage length A [inch] Order No.	short A10.020	0.87" 3.94" 16	- 3.94" ¹⁾ 20	1.14" 3.94" 25	1.34" 3.94" 32	1.50" 4.72" 40
L [inch] Gage length A [inch] Order No.	extralong 160	0.87" 6.30" 16	-	1.14" 6.30" 25	1.34" 6.30" 32	1.50" 6.30" 40

Accessories							See also accessories
Spare parts Chuc	k nut, Pre-bala	nced					
Ø ER Order No .	83.912	E	ER16 16	ER20 20	ER25 25	ER32 32	ER40 40
Spare parts Chuc	k nut HS (High:	speed), Fine-balance	d				
Ø ER Order No.	83.912	E	ER16 16.HS	ER20 20.HS	ER25 25.HS	ER32 32.HS	ER40 40.HS
Spare parts Wren	ch						
Ø ER Order No .	84.200	>	ER16 16	ER20 20	_	_	_
Spare parts Wren	ch						
Ø ER Order No .	84.200	\sum	-	_	ER25 25	ER32 32	ER40 40
Spare parts Balar	ncing index ring	gs					
Ø ER Order No .	79.350	igoplus	ER16 28	ER20 34	ER25 42	ER32 48	ER40 60
Spare parts Colle	t						
Ø ER See accessories							
Spare parts Adjus	ting Screw						
Ø ER Order No .	85.800		ER16 34	ER20 34	ER25 34	ER32 35	ER40 35
Spare parts Coola	ant Tube						
Ø ER Order No.	85.700	G	ER16 10	ER20 10	ER25 10	ER32 10	ER40 10

1) On request

HG COLLET CHUCK HSK-A 100 · DIN 69893-1





Form A

Certificate of Quality

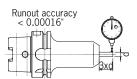
☑ Chuck body fine balanced G2.5 25,000 1/min or U<1gmm

■ All functional surfaces machined
■ More accurate than DIN

Use:

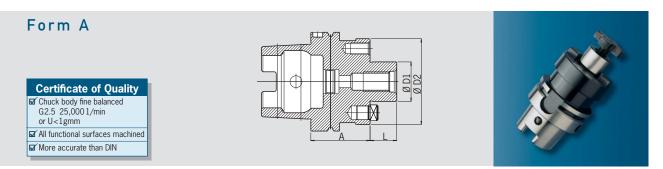
Newly developed TiN coated collets allow for extremely accurate clamping in HG chucks, making them very useful for high-speed cutting

- Included in delivery: HG chuck with clamping screw and pull out hook



INCH	HG	01	02	03
	ØD [inch]	1.18"	1.38"	1.89"
	Clamping Ø [inch] shank tolerance h6	0.08"-0.35"	0.39"-0.57"	0.63"-0.79"
Gage length A [inch] Order No.	short A10.120	4.72" 01	4.72" 02	5.12" 03
Gage length A [inch] Order No.	extralong 160 A10.122	6.30" 01	6.30" 02	6.30" 03

Accessories						See also accessories
Spare parts Collet						
HG See accessories						
Spare parts Locking	g Screw					
HG Order No.	short 82.560		HG 01 2	HG 02 14	HG 03 14	
HG Order No.	extralong160 82.560		HG 01 4	HG 02 5	HG 03 5	
Spare parts Balance	ing index ring	s				
HG Order No.	79.350	lacktriangle	HG 01 30	HG 02 35	HG 03 48	
Spare parts Coolai	nt Tube					
HG Order No.	85.700		HG 01 10	HG 02 10	HG 03 10	



Use:

- Included in delivery: Face mill holder with clamping screw

For clamping face-mill cutters

INCH	Ø D1 [inch]	3/4"	1"	1 1/4"	1 1/2"
	L [inch]	0.70"	0.70"	0.70"	0.94"
	Ø D2 [inch]	1.71"	2.17"	2.75"	3.78"
Gage length A [inch] Order No.	long 100 A10.051	3.94" 3/4Z	3.94" 1Z	3.94" 1 1/4Z	3.94" 1 1/2Z
Gage length A [inch] Order No.	extralong 160 A10.052	6.30" 3/4Z	6.30" 1Z	6.30" 1 1/4Z	6.30" 1 1/2Z

METRIC	Ø D1 [mm] L [mm] Ø D2 [mm]	 16 17 40	22 19 50	27 21 60	32 24 78	40 27 87
Gage length A [mm] Order No.	short A10.050	50 16	50 22	50 27	50 32	60 40
Gage length A [mm] Order No.	ZG130 A10.051	100 16	100 22	100 27	100 32	100 40
Gage length A [mm] Order No.	extralong 16 A10.052	160 16	160 22	160 27	160 32	160 40

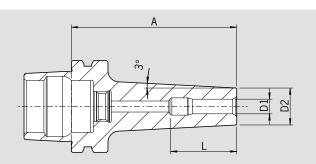
Accessories							S	See also accessories
Spare parts Clam	oing Screw							
ØD1 [inch]			3/4"	1"	1 1/4"	1 1/2"	2"	
Order No.	85.300		3/4Z	1Z	11/4Z	11/2Z	2Z	
Spare parts Wren	ch							
ØD1 [inch]			3/4"	1"	1 1/4"	1 1/2"		
Order No.	84.400		3/4Z	1Z	11/4Z	11/27	2Z	
Spare parts Balan	cing index ring							
ØD1 [inch]			3/4"	1"	-	_	-	
Order No.	79.350	\bigoplus	1.71Z	55				
Spare parts Coola	nt Tube							
ØD1 [inch]		57	3/4"	1"	1 1/4"	1 1/2"	2"	
Order No.	85.700	4	10	10	10	10	10	

Accessories							Sec	e also accessories
Spare parts Clamping	g Screw							
Ø D1 [mm] Order No.	85.300		16 16	22 22	27 27	32 32	40 40	50 50
Spare parts Wrench								
Ø D1 [mm] Order No.	84.400	•	16 16	22 22	27 27	32 32	40 40	50 50
Spare parts Balancing index ring								
Ø D1 [mm] Order No.	79.350	igoplus	16 40	22 50	27 60	32 78	40 87	-
Spare parts Coolant 1	Гube							
ØD1 [mm] Order No.	85.700		16 10	22 10	27 10	32 10	40 10	50 10

MINI SHRINK HSK-E25 · DIN 69893-5







☑ Chuck body fine balanced

☑ Chuck body fine balanced
G2.5 25.000 1/min or U<1 gmm
☑ All functional surfaces machined

✓ More accurate than DIN

Low cutting forces at highest rpm are characterizing the micro machining (die & mold, medical engineering, micro mechanical engineering). The slim and short design of the all new HSK-E25 series from HAIMER - which is well known from the HAIMER Mini Shrink tool holders – is perfectly suitable for the requirements of micro machining.

- No disturbing edges, also jobs difficult to access are penetrable
- Highest runout accuracy: <0.003 mm
- Ideal to shrink with the HAIMER Power Clamp Nano

Available as:

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

Mini Shrink

Clamping	Ø D1 [mm]	Ø D1 [mm]		04	05	06	06	06	08	10	10	10	12
	Ø D2 [mm]	Ø D2 [mm] Ø D3 [mm]			11	12	12	12	14	16	16	16	18
	Ø D3 [mm]				<u> </u>	_	_	_	_	18	18	18	20
	L [mm] ultra short			18	23	27,5	_	_	27	26.5	_	_	26
L [mm] standard			15	18	28	37.5	32.5	37.5	27	41.5	34.5	41.5	36
Length A [mm]	ultra short		351)	351)	351)	401)	_	_	401)	401)	_	_	401)
Order No.	E25.185		03	04	05	06			08	10			12
Length A [mm]	standard		45	45	45	45	45	50	50	50	50	55	50
Order No.	E25.180		03	04	05	061)	06.V2	06.V3	08	101)	10.V2	10.V3	12

1) Only shrinkable with Power Clamp Nano

Technical data and availability subject to change without prior notice

Accessories

Shrink and cooling adapter for Mini Shrink

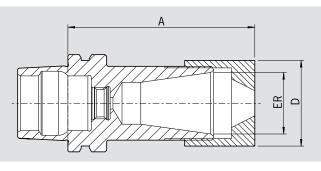
COLLET CHUCK MINI ER HSK-E25 · DIN 69893-5













Low cutting forces at highest rpm are characterizing the micro machining (die & mold, medical engineering, micro mechanical engineering). The slim and short design of the all new HSK-E25 series from HAIMER is perfectly suitable for the requirements of micro machining.

- Included in delivery: locknut

Available as:

- Mini-ER collet chuck (Mini-ER 16) in two different lengths

Standard version, similar to DIN 69882-8

Mini-ER	ER	16
	Ø D [inch]	0.87
	Clamping range [inch]	0.02"-0.39"
Length A [inch] Order No.	ultra short E25.025	1.69 16.7 ¹⁾
Length A [inch] Order No.	short E25.020	1.89 16.7

1) Without thread for coolant tube

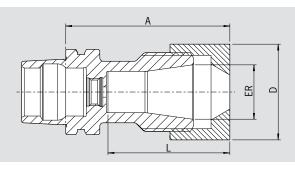
POWER COLLET CHUCK HSK-E25 · DIN 69893-5











CERTIFICATE OF QUALITY

☑ Chuck body fine balanced
G2.5 25.000 1/min
or U-1 gmm

☑ All functional surfaces machined
☑ More accurate than DIN

Low cutting forces at highest rpm are characterizing the micro machining (die & mold, medical engineering, micro mechanical engineering). The slim and short design of the all new HSK-E25 series from HAIMER is perfectly suitable for the requirements of micro machining.

- Included in delivery: locknut

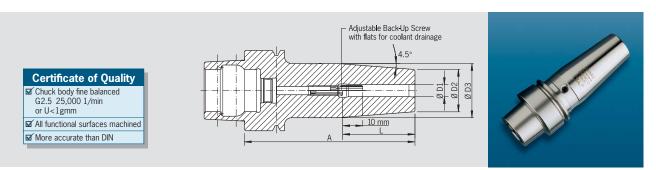
Available as:

- Power Collet Chuck ER 16

Power Collet Chuck for highest runout accuracy

INCH	ER	16
	Ø D [inch]	1.1
	Clamping range [inch]	1/8"-3/8"
	L [inch]	1.69
Length A [inch] Order No.	standard E25.020	1.89 16

SHRINK FIT CHUCK HSK-E32 · DIN 69893-5



llse

Suitable for all shrinking units

DIN 69893-5

- Included in delivery: Shrink fit chuck with backup screw, without

- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- Cool Jet option available upon request

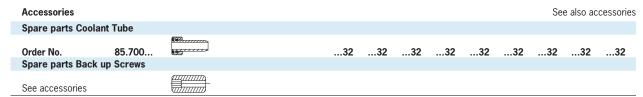
Standard version, similar to DIN 69882-8

INCH	Form E 32 Clamping Ø D1 [inch] for shank tolerance h6	1/8"	3/16"	1/4"	3/8"
	Ø D2 [inch]	0.39"	0.39"	0.83"	0.94"
	L [inch]	-	-	1.42"	1.65"
Gage length A [inch]	short	2.36"1)	2.36"1)	3.15"	3.15"
Order No.	E32.140	1/8Z	3/16Z	1/4Z	3/8Z

METRIC	Form E 32 Clamping Ø D1 [mm]	03	04	05	06	08	10	12	14	16
	Ø D2 [mm]	10	10	10	21	21	24	24	27	27
	Ø D3 [mm]				27	27	32	32	34	34
	L [mm]	09	12	15	36	36	42	47	47	50
Length A [mm] Order No.	short E 32.140	60 ¹⁾	60 ¹⁾	60 ¹⁾	70 06	70 08	80 10	-	-	-

 $1) \ \textit{Without back-up screw, with slits along the clamping bore for cooling from outside} \\$

Technical data and availability subject to change without prior notice

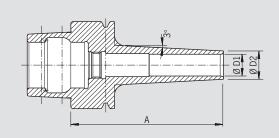


1) Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside Technical data and availability subject to change without prior notice

MINI SHRINK HSK-E 40 · DIN 69893-5

- 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.





Form E

Certificate of Quality

☑ Chuck body fine balanced G2.5 25,000 1/min or U<1gmm

■ All functional surfaces machined
■ More accurate than DIN

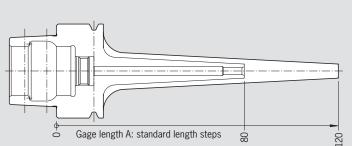
HSK-E 40

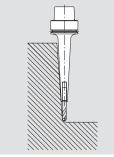
- Extreme slim design
- No disturbing edges
- Runout accuracy: 3 µm Maximum
- Ideal for the Haimer Power Clamp
- For all solid carbide tools with shank tolerance h6
- With 3° slope for dies and molds

- **Standard version:** with high clamping force
- Extra slim version: extremely slim for fine machining and for jobs very difficult to reach
- Tool holders fine balanced
- Delivery without coolant tube

Attention: Heating and cooling only with shrink and cooling sleeves (see accessories)





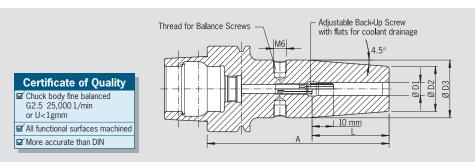


HSK-E 40

INCH	Clamping Ø D1	1/8"	3/16"	1/4"	3/8"	1/2"
	Ø D2 standard [inch]	0.35"	0.43"	0.47"	0.63"	0.71"
	Ø D2 extra slim [inch]	0.24"	0.32"	0.35"	0.51"	0.59"
Gage length A [inch]	ultra short	2.24"	2.24"	2.24"	2.24"	2.24"
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"
Order No.	Standard E40.180	1/8Z	3/16Z	1/4Z	3/8Z	1/2Z

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
Length A [mm]	ultra short		60	60	60	60	60	60	60
Order No.	Standard E40.185		03	04	05	06	08	10	12
Order No.	extra slim E40.175	— <u></u>	03	04	05	06	08	10	12
Length A [mm]	short		70	70	70	70	70	70	70
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
Length A [mm]	ZG 80		80	80	80	80	80	80	80
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

SHRINK FIT CHUCK HSK-E 40 · DIN 69893-5

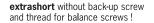


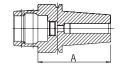


Use:

Suitable for all shrinking units

- Fine-Balancing by balance screws. See accessories
- Included in delivery: Shrink fit chuck with back-up screw





INCH	Clamping Ø D1 [inch] for shank tolerance h6	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"
	Ø D2 [inch]	0.39"	0.39"	0.83"	0.83"	0.94"	0.94"	1.06"
	Ø D3 [inch]	-	-	1.06"	1.06"	1.26"	1.26"	1.34"
	L [inch]	-	-	1.42"	1.42"	1.65"	1.85"	1.97"
Gage length A [inch] Order No.	short E40.140		2.36"¹¹ 3/16Z					3.54" 5/8Z

METRIC	Clamping Ø D1 [mm] for shank tolerance he	6 03	04	05	06	08	10	12	14	16
	Ø D2 [mm]	10	10	10	21	21	24	24	27	27
	Ø D3 [mm]	-	-	-	27	27	32	32	34	34
	L [mm]	-	-	-	36	36	42	47	47	50
Gage length A [mm] Order No.	extrashort E40.145	-	-	-	60 06	60 08	60 10	60 12	60 14	60 16
Gage length A [mm] Order No.	short E40.140	60 ¹⁾ 03	60¹¹ 04	60 ¹⁾ 05	80 06	80 08	80 10	90 12	90 14	90 16

Accessories

Spare parts Coolant Tube

Order No. 85.700...

Spare parts Set of Balance Screws

See accessories

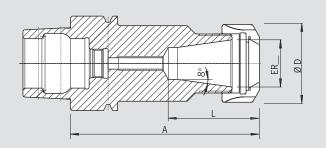
Spare parts Back up Screws

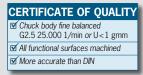
See accessories

1) Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside

ER COLLET CHUCK HSK-E 40 · DIN 69893-5



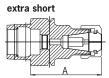




Use:

For clamping tools with cylindrical shank in ER collets

- Included in delivery: ER collet chuck with pre-balanced chuck nut
- Balanced chuck nuts with special slide coating for low friction and high clamping forces



INCH	ØER	ER11	ER16	ER25	ER32
	ØD [inch]	0.75"	1.1"	1.65"	1.97"
	Clamping range [inch]	0.02"-0.28"	0.02"-0.39"	0.04"-0.63"	0.04"-0.79"
	Clamping range [mm]	0.5–7	0.5–10	1–16	1–20
L [inch] Gage length A [inch] Order No.	extrashort E40.025	0.79" 2.36" 11	0.87" 2.36" 16	1.14" 2.76 25	1.34" 2.76" 32
L [inch] Gage length A [inch] Order No.	short E40.020	- -	0.87" 3.15" 16	1.14" 3.15" 25	-

Accessories							See also accessories
Spare parts Chuck I	nut, Pre-bala	nced					
Ø ER Order No.	83.912	E	ER11 11	ER16 16	ER20 20	ER25 25	ER32 32
Spare parts Chuck I	nut HS (High:	speed), Fine-balanced					
Ø ER Order No.	83.912	E	ER11 11.HS	ER16 16.HS	ER20 20.HS	ER25 25.HS	ER32 32.HS
Spare parts Wrench	ı						
Ø ER Order No.	84.200	5	ER11 11	ER16 16	ER20 20	_	-
Spare parts Wrench	ļ						
Ø ER Order No.	84.200		-	-	-	ER25 25	ER32 32
Spare parts Balanci	ng index ring	gs					
Ø ER Order No.	79.350	igoplus	ER11 19	ER16 28	ER20 32	ER25 32	ER32 40
Spare parts Collet							
Ø ER See accessories		₩					
Spare parts Adjustin	ng Screw						
Ø ER Order No.	85.800		_	ER16 34	ER20 34	ER25 34	ER32 35
Spare parts Coolant	Tube						
Ø ER Order No.	85.700		ER11 40	ER16 40	ER20 40	ER25 40	ER32 40

1) On request

MINI SHRINK HSK-E 50 · DIN 69893-5

- 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.

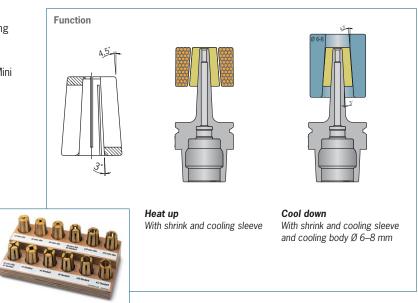
HSK-E 50

INCH	Clamping Ø D1	1/8"	3/16"	1/4"	3/8"	1/2"
	Ø D2 standard [inch]	0.35"	0.43"	0.47"	0.63"	0.71"
	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"
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]	ZG 100	3.94"	3.94"	3.94"	3.94"	3.94"
Order No.	Standard E50.181	⇒ 1/8Z	3/16Z	1/4Z	3/8Z	1/2Z
Order No.	extra slim E50.171	1/8Z	3/16Z	1/4Z	3/8Z	1/2Z

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
Length A [mm]	short		70	70	70	70	70	70	70
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
Length A [mm]	ZG 80		80	80	80	80	80	80	80
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
Length A [mm]	ZG 100		_	_	100	100	100	100	100
Order No.	Standard E50.181				05	06	08	10	12
Order No.	extra slim E50.171				05	06	08	10	12

Shrink and cooling sleeve

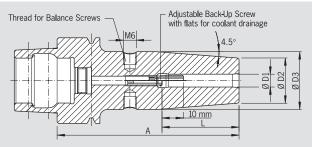
- Protects Mini Shrink chucks from overheating
- Extends lifetime of shrink fit chucks
- Secure and user friendly handling
- Only one parameter setting needed for all Mini Shrink chucks
- Cooling with standard cooling body



Shrinking and cooling sleeves for Mini Shrink chucks								
Extra slim								
Size [mm]	Ø 03	Ø 04	Ø 05	Ø 06	Ø 08	Ø 10	Ø 12	
Order No. 80.105.14	2.01	2.02	2.03	2.04	2.05	2.06	2.07	
Standard								
Size [mm]	Ø 03	Ø 04	Ø 05	Ø 06	Ø 08	Ø 10	Ø 12 Ø 16	
Order No. 80.105.14	2.04	2.08	2.05	2.09	2.10	2.11	2.122.16	
Wood base							80.3	105.14.2.99
Set with wood base (12 pcs)							80.:	105.14.2.00

SHRINK FIT CHUCK HSK-E 50 · DIN 69893-5





Form E

Certificate of Quality

- ☑ Chuck body fine balanced G2.5 25,000 1/min or U<1gmm
- All functional surfaces machined
 More accurate than DIN

Use:

Suitable for all shrinking units

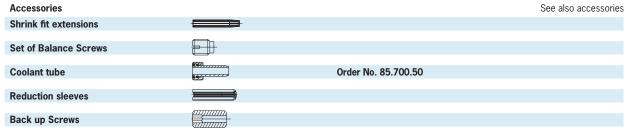
DIN 69893-5

- Tapped holes for balancing with set screws
- Included in delivery: Shrink fit chuck with backup screw, without coolant tube
- Heat resistant hot-working steel
- Hardened 54-2 HRC
- For HSS and solid carbide tools
- Shank tolerance h6
- Cool Jet option available upon request

INCH	Clamping Ø D1 [inch] for shank tolerance h6	1/8"	3/16"	1/4"	5/16"	3/8"	7/16"	1/2"	5/8"
	Ø D2 [inch]	0.39"	0.39"	0.83"	0.83"	0.94"	0.94"	0.94"	1.06"
	Ø D3 [inch]	-	-	1.06"	1.06"	1.26"	1.26"	1.26"	1.34"
	L [inch]			1.42"	1.42"	1.65"	1.65"	1.85"	1.97"
Gage length A [inch]	short	2.36"1)	2.36"1)	3.15"	3.15"	3.35"	3.35"	3.54"	3.74"
Order No.	E50.140	1/8Z	3/16Z	1/4Z	5/16Z	3/8Z	7/16Z	1/2Z	5/8Z

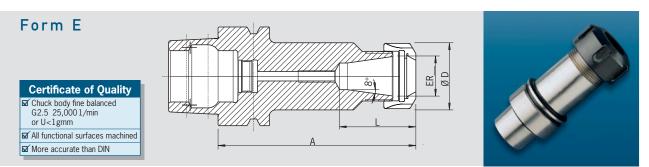
Standard version, similar to DIN 69882-8

METRIC	Clamping Ø D1 [nm]	03	04	05	06	08	10	12	14	16
	Ø D2 [mm]		10	10	10	21	21	24	24	27	27
	Ø D3 [mm]		-	-	-	27	27	32	32	34	34
	L [mm]		09	12	15	36	36	42	47	47	50
Form E 50											
Length A [mm] Order No.	short E50.140		60 ¹⁾ 03	60¹) 04	60¹) 05	80 06	80 08	85 10	90 12	90 14	95 16
Length A [mm] Order No.	ZG130 E50.144		-	-	-	130 06	130 08	130 10	130 12	130 14	130 16



 $1) \textit{Without back-up screw, without threads for balancing } \overline{\text{screws, with slits along the clamping bore for cooling from outside}}\\$

ER COLLET CHUCK HSK-E 50 · DIN 69893-5



Use:

For clamping tools with cylindrical shank in ER collets

- Included in delivery: ER collet chuck with pre-balanced chuck nut
- Balanced chuck nuts with special slide coating for low friction and high clamping forces

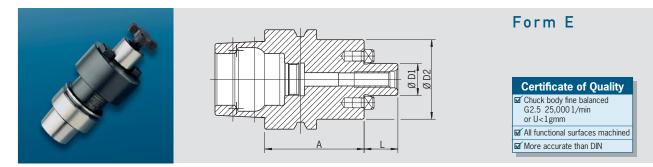


Without thread for back-up screw

INCH	Ø ER Ø D [inch] Clamping ra	<u> </u>	ER11 0.75" 0.02"-0.28" 0.5-7	ER16 1.1" 0.02"-0.39" 0.5-10	ER20 1.34" 0.04"-0.51" 1-13	ER25 1.65" 0.04"-0.63" 1-16	ER32 1.97" 0.04"-0.79" 1-20
L [inch] Gage length A [inch] Order No.	extrashort E50.025		0.79" 2.36" 11	0.87" 2.36" 16	1.26" 2.76" 20	1.24" 2.76" 25	1.34" 3.15" 32
L [inch] Gage length A [inch] Order No.	short E50.020		-	0.87" 3.94" 16	-	1.24" 3.94" 25	1.34" 3.94" 32

Accessories							See	also accessories
Spare parts Chuck	nut, Pre-bala	nced						
Ø ER Order No.	83.912	E	ER11 11	ER16 16	ER20 20	ER25 25	ER32 32	ER40 40
Spare parts Chuck	nut HS (Highs	speed), Fine-balanced						
Ø ER Order No.	83.912	8	ER11 11.HS	ER16 16.HS	ER20 20.HS	ER25 25.HS	ER32 32.HS	ER40 40.HS
Spare parts Wrenc	h							
Ø ER Order No.	84.200	5	ER11 11	ER16 16	ER20 20	-	-	_
Spare parts Wrenc	h							
Ø ER Order No.	84.200	<u>></u>	-	_	-	ER25 25	ER32 32	ER40 40
Spare parts Balance	ing index ring	gs						
Ø ER Order No.	79.350	igoplus	ER11 19	ER16 28	ER20 34	ER25 32	ER32 40	ER40 50
Spare parts Collet								
Ø ER See accessories								
Spare parts Adjust	ing Screw							
Ø ER Order No.	85.800		-	ER16 34	ER20 34	ER25 34	ER32 35	ER40 35
Spare parts Coolar	nt Tube							
Ø ER Order No.	85.700		ER11 50	ER16 50	ER20 50	ER25 50	ER32 50	ER40 50

FACE MILL HOLDER HSK-E 50 · DIN 69893-5



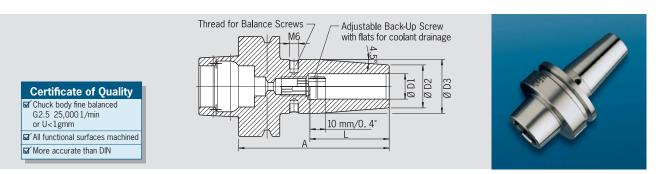
Use: For clamping face-mill cutters

- Included in delivery: Face mill holder and clamping screw

METRIC	Ø D1 [mm]	16	22	27	
	L [mm]	17	19	21	
	Ø D2 [mm]	40	50	60	
Gage length A [mm] Order No.	short E50.050	50 16	60 22	60 27	

Accessories						See also accessories
Spare parts Clampir	ng Screw					
ØD1 [inch] Order No.	85.300		3/4" 3/4Z	1" 1Z		
Spare parts Wrench	ı					
ØD1 [inch] Order No.	84.400	L	3/4" 3/4Z	1" 1Z		
Spare parts Balanci	ng index rin	gs	,			
ØD1 [inch] Order No.	79.350	igoplus	3/4" 1.71Z	1" 55		
Spare parts Coolant	Tube					
ØD1 [inch] Order No.	85.700		3/4" 50	1" 50		
Accessories						
Spare parts Clampin	ng Screw		16	22	27	See also accessories
ØD1 [mm] Order No.	85.300		16 16	22 22	27 27	See also accessories
ØD1 [mm] Order No. Spare parts Wrench	85.300		16	22	27	See also accessories
ØD1 [mm] Order No.	85.300	=				See also accessories
ØD1 [mm] Order No. Spare parts Wrench ØD1 [mm]	85.300 84.400		16	22	27	See also accessories
Ø D1 [mm] Order No. Spare parts Wrench Ø D1 [mm] Order No.	85.300 84.400		16	22	27	See also accessories
ØD1 [mm] Order No. Spare parts Wrench ØD1 [mm] Order No. Spare parts Balanci ØD1 [mm]	85.300 84.400 ng index rin: 79.350	gs	16 16 16 16	22 22 22	27 27 27 27	See also accessories

SHRINK FIT CHUCK HSK-F 63 · DIN 69893-6



Use:

Suitable for all shrinking units

- Fine-Balancing by balance screws. See accessories
- Included in delivery: Shrink fit chuck with back-up screw

INCH	Clamping Ø D1 [inch] fo	r shank tolerance h6	1/8"	3/16"	1/4"	5/16"	3/8"	1/2"	5/8"	3/4"	1"
	Ø D2 [inch]		0.39"	0.39"	0.83"	0.83"	0.94"	0.94"	1.06"	1.3"	1.73"
	Ø D3 [inch]		-	-	1.06"	1.06"	1.26"	1.26"	1.34"	1.65"	2.09"
	L [inch]		-		1.42"	1.42"	1.65"	1.85"	1.97"	2.05"	2.28"
Gage ler Order N	ngth A [inch] short F63.140		3.15"¹¹ 1/8Z	3.15" ¹⁾ 3/16Z	3.15" 1/4Z	3.15" 5/16Z	3.35" 3/8Z	3.54" 1/2Z	3.54" 5/8Z	3.94" 3/4Z	4.53" 1Z

METRIC Clamping Ø D1 [mm] for shank tolerance h6	03	04	05	06	08	10	12	16	20	25
Ø D2 [mm]	10	10	10	21	21	24	24	27	33	44
Ø D3 [mm]	-	-	-	27	27	32	32	34	42	53
L [mm]	-	-	-	36	36	42	47	50	52	58
Gage length A [mm] short F63.140	80 ¹⁾ 03	80 ¹⁾ 04	80¹) 05	80 06	80 08	85 10	90 12	95 16	100 20	115 25
Gage length A [mm] ZG130 Grder No. F63.144	-	-	-	130 06	130 08	130 10	130 12	130 16	130 20	130 25

Accessories

Spare parts Set of Balance Screws

See accessories

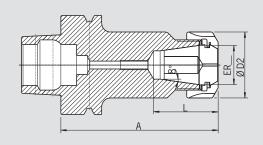
Spare parts Back up screws

See accessories

1) Without back-up screw, without threads for balancing screws, with slits along the clamping bore for cooling from outside Technical data and availability subject to change without prior notice

ER COLLET CHUCK HSK-F 63 · DIN 69893-6





Certificate of Quality

☑ Chuck body fine balanced G2.5 25,000 1/min or U<1gmm

■ All functional surfaces machined

■ More accurate than DIN

Use:

For clamping tools with cylindrical shank in ER collets

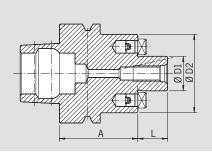
- Included in delivery: ER collet chuck with pre-balanced chuck nut
- Balanced chuck nuts with special slide coating for low friction and high clamping forces

INCH	ØER ØD [inch] Clamping rang Clamping rang	ge [inch]	0.75" 0.02"–0.28"	ER16 1.1" 0.02"-0.39" 0.5-10	ER20 1.34" 0.04"-0.51" 1-13	1.65" 0.04"-0.63"	ER32 1.97" 0.04"-0.79" 1-20	ER40 2.48" 0.08"-1.02" 2-26
L [inch] Gage length A [inch] Order No.			1.65" 2.95" 11	1.50" 2.95" 16	1.46" 2.95" 20	0.98" 2.95" 25	1.26" 2.95" 32	1.50" 2.95" 40
L [inch] Gage length A [inch] Order No.	short — F63.020		0.67" 3.94" 11	0.87" 3.94" 16	1.06" 3.94" 20	1.14" 3.94" 25	1.34" 3.94" 32	1.50" 4.72" 40

Accessories							See	also accessories
Spare parts Chuck	nut, Pre-bala	nced						
Ø ER Order No.	83.912	E	ER11 11	ER16 16	ER20 20	ER25 25	ER32 32	ER40 40
Spare parts Chuck	nut HS (High:	speed), Fine-balanced						
Ø ER Order No.	83.912	E	ER11 11.HS	ER16 16.HS	ER20 20.HS	ER25 25.HS	ER32 32.HS	ER40 40.HS
Spare parts Wrench	1							
Ø ER Order No.	84.200	2	ER11 11	ER16 16	ER20 20	-	-	-
Spare parts Wrench	1							
Ø ER Order No.	84.200		-	-	-	ER25 25	ER32 32	ER40 40
Spare parts Balanci	ing index ring	gs						
Ø ER Order No.	79.350	igoplus	ER11 19	ER16 28	ER20 34	ER25 42	ER32 48	ER40 50
Spare parts Collet								
Ø ER See accessories								
Spare parts Adjustin	ng Screw							
Ø ER Order No.	85.800		-	ER16 34	ER20 34	ER25 34	ER32 35	ER40 35

FACE MILL ARBOR HSK-F63 · DIN 69893







Use:

For holding face mill cutters and cutters with radial driving slot DIN 1880 and exceeding clamping diameter 40 clamping according to DIN 2079 is possible, too (4 additional tapping holes).

DIN 69882

- Included in delivery: tightening bolt, without coolant tube
- Coolant bores on front side against extra charge

Clamping Ø	Ø D1 [mm]	16	22	27
	Ø D2 [mm]	36	50	60
	L [mm]	17	19	21
Length A [mm] Order No.	short F63.050	_	50 22	60 27

Accessories						
Tightening bolt						
Size D1		₽ A	16	22	27	
Order No.	85.300	-	16	22	27	
Wrench						
Size D1		Φ	16	22	27	
Order No.	84.400	₩	16	22	27	
Balancing index ri	ngs					
Size D1			16	22	27	
Order No.	79.350	lacksquare	40	50	60	
Coolant bores						See page 92
Order No.	91.100.03	763				

PERFECTION REQUIRES PRECISON

Lofty goals leave no space for compromises. This means: When you buy Haimer you really get Haimer. When quality is concerned we first of all trust in ourselves. Not only that we produce all our products by ourselves. Also the fixtures and vices on our machines are made by Haimer. We do this because we know that only **Quality wins.**





HAIMER CAPTO™

Form C6 ISO 26623

Shrink Fit Chuck	88
ER Collet Chuck	89
Weldon Tool Holder	90
Face Mill Holder	91

SHRINK FIT CHUCK HAIMER CAPTO™ C6 · ISO 26623





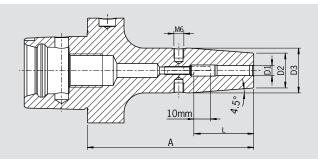












CERTIFICATE OF QUALITY

☑ Chuck body fine balanced G2.5 25.000 1/min or U<1 gmm

☑ All functional surfaces machined

✓ More accurate than DIN

Shrink Fit chuck suitable to all kind of shrink fit units.

Available from Ø 3 to Ø 32.

- Interface with a unique tapered polygon and flange location face
- Exact positioning in the circumferential direction
- Highest runout accuracy, torque and rigidity
- Innovative modular tool system with highest precision
- Suitable for both turning and milling centres

ISO 26623

- Delivery: With back-up screw (except for Power Shrink Chuck ultra short)
- Ultra short, short, 100 mm, 130 mm and 160 mm version available.

METRIC Clamping	Ø D1 [mm]	03	04	05	06	08	10	12	14	16	18	20	25	32
	Ø D2 [mm]	10	10	10	21	21	24	24	27	27	33	33	44	44
	Ø D3 [mm]	_	_	_	27	27	32	32	34	34	42	42	53	53
	L [mm]	_	_	_	36	36	42	47	47	50	50	52	58	58
Length A [mm] Order No.	short CC6.140	80 03	80 04	80 05	80 06	80 08	80 10		85 14	85 16	85 18	85 20	90 25	95 32
Length A [mm] Order No.	long CC6.141	-	_	_	100 06	100 08	100 10	100 12	100 14	100 16	100 18	100 20	_	_
Length A [mm] Order No.	ZG130 CC6.144	-	_	_	130 06	130 08	130 10	130 12	130 14	130 16	130 18	130 20	130 25	130 32
Length A [mm] Order No.	oversize CC6.142	_	_	_	160 06	160 08	160 10	160 12	160 14	160 16	160 18	160 20	160 25	160 32

Power Shrink Chuck ultra short version, with Cool Jet

METRIC Clamping	Ø D1 [mm]	06	08	10	12	14	16	18	20	25	32
	Ø D2 [mm]	22	22	26.5	26.5	29,5	29.5	35.5	35.5	45	45
	Ø D3 [mm]	_	_	_	_	_	_	_	_	_	_
	L [mm]	38	38	43	46	46	49	49	49	57	59
Length A [mm] Order No.	ultra short CC6.145	65 06.3	65 08.3	65 10.3	65 12.3	70 14.3	70 16.3	70 18.3	70 20.3	80 25.3	80 32.3

COLLET CHUCK ER HAIMER CAPTO™ C6 · ISO 26623





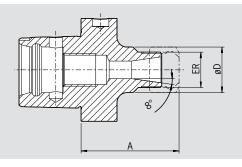




CERTIFICATE OF QUALITY

Chuck body fine balanced G2.5 25.000 1/min or U<1 gmm

☑ All functional surfaces machined ✓ More accurate than DIN





For clamping cutters with cylindrical shank in collets according to DIN 6499. Available from ER 16 to 40.

ISO 26623

- Included in delivery: With locknut (balanced, with slide coating for higher clamping forces)
- In four different lengths available, additionally Mini-ER 11 and Mini-ER 16 in two lenghts.

ER			16	20	25	32	40
	Ø D [inch]		1.1	1.34	1.65	1.97	2.48
	Clamping range	[inch]	0.02"-0.39"	0.04"-0.51"	0.04"-0.63"	0.04"-0.79"	0.08"-1.02"
Length A [mm] Order No.	ultra short CC6.025		2.36 16 ¹⁾	2.36 20 ¹⁾	2.36 25 ¹⁾	2.36 32 ¹⁾	2.56 40 ¹⁾
Length A [mm] Order No.	long CC6.021		3.94 16	3.94 20	3.94 25	3.94 32	3.94 40
Length A [mm] Order No.	ZG130 CC6.024		5.12 16	5.12 20	5.12 25	5.12 32	5.12 40
Length A [mm] Order No.	oversize CC6.022		6.30 16	6.30 20	6.30 25	6.30 32	6.30 40

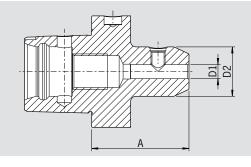
	Collet Chuck Mi	ni-ER	11	16
	Ø D1 [inch]		0.63	0.87
Length A [mm] Order No.	long CC6.021		3.94 11.7 ¹⁾	3.94 16.7 ¹⁾
Length A [mm] Order No.	oversize CC6.022		6.30 11.7 ¹⁾	6.30 16.7 ¹⁾

1) Without thread for back-up screw

WELDON TOOL HOLDER HAIMER CAPTO™ C6 · ISO 26623







CERTIFICATE OF QUALITY ☑ Chuck body fine balanced G2.5 25.000 1/min ☑ All functional surfaces machined ☑ More accurate than DIN

Use:

For clamping cutters with cylindrical shanks and Weldon flat according to DIN 1835-B and DIN 6935-HB.

From \emptyset 6 to \emptyset 40 mm. Short version available.

- Interface with a unique tapered polygon and flange location face
- Exact positioning in the circumferential direction
- Highest runout accuracy, torque and rigidity
- Innovative modular tool system with highest precision
- Suitable for both turning and milling centres

ISO 26623

- Delivery: with clamping screw

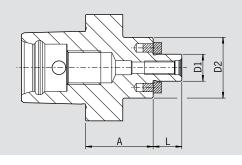
Clamping	Ø D1 [mm]	06	08	10	12	14	16	18	20	25	32	40
	Ø D2 [mm]	25	28	35	42	44	48	50	52	64	72	80
Length A [mm] Order No.	short CC6.000	55 06	55 08	60 10	60 12	60 14	65 16	65 18	65 20	80 25	90 32	100 40

Accessories												
Clamping screw												
Clamping Ø	F	D 06	80	10	12	14	16	18	20	25	32	40
Order No.	85.100	06	08	10	12	12	14	14	16	18	20	25
Balancing index ri	ngs											
Clamping Ø	long/oversize	© 06	80	10	12	14	16	18	20	25	32	40
Order No.	79.350	₩ 2 5	28	35	42	44	48	50	52	64	72	80
Cool Jet bores												
Order No.	91.100.24											

FACE MILL ARBOR HAIMER CAPTO™ C6 · ISO 26623



CERTIFICATE OF QUALITY ☑ Chuck body fine balanced G2.5 25.000 1/min ☑ All functional surfaces machined ✓ More accurate than DIN





Use:

For clamping face mill cutters and cutters with radial driving slot DIN 1880.

- Interface with a unique tapered polygon and flange location face
- Exact positioning in the circumferential direction
- Highest runout accuracy, torque and rigidity
- Innovative modular tool system with highest precision
- Suitable for both turning and milling centres

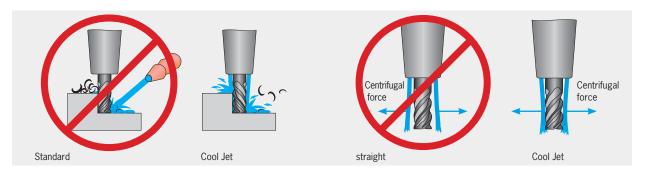
ISO 26623

- Included in delivery: tightening bolt
- Coolant bores on front side against extra charge

Clamping	Ø D1 [mm]	16	22	27	32	40
	Ø D2 [mm]	36	48	60	63	70
	L [mm]	17	19	21	24	27
Length A [mm] Order No.	short CC6.050	40 16	25 22	25 27	25 32	40 40

Accessories								
Tightening bolt								
Size D1			16	22	27	32	40	
Order No.	85.300		16	22	27	32	40	
Wrench								
Size D1			16	22	27	32	40	
Order No.	84.400		16	22	27	32	40	
Order No. Balancing index ri		•	16	22	27	32	40	
			16	22	27	32	40	
Balancing index ri				22	27	32	40	
Balancing index ri Size D1	ings		16	22	27	32	40	

COOL JET - CUT THE CHIP ONLY ONCE!



- Coolant directly to the cutting edge
- Extended toollife up to $100\,\%$
- Higher reliability of cutting process
- No more balls of chips on tool

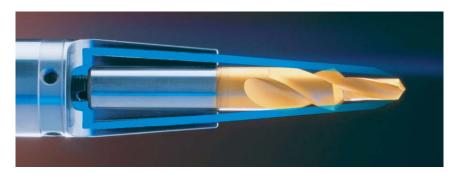
Function at high spindle speed

Previous coolant bores: straight
Optimized coolant bores: aimed at center

Cool Jet

Order No.

91.100.24



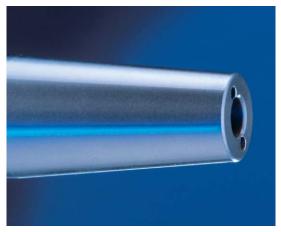
Examples

For use in:

- Shrink fit chuck
- HG chuck
- Face mill holder
- Weldon



Shrink fit chuck



Coolant bores aimed at center Cool Jet by Haimer



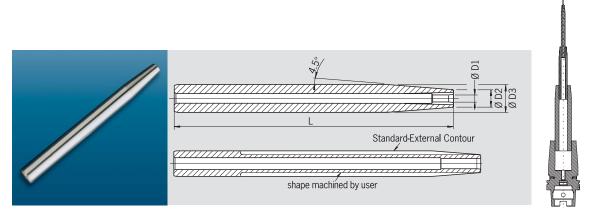
Weldon



Accessories

Shrinking Extension	94
Mini Shrink Extension	95
HG Mini Extension	96
Heavy Duty Shrink Extension	97
ER Collets	98
HG Collets & HG Cone wiper	100
Tool Clamp	101
Pull Stud CAT 40/CAT 50	102
Reduction Sleeves	104
Coolant Tubes	105
Balancing Index Rings	106
Shrink Fit Brush	107
Cone Wiper	108
Backup screws	109

SHRINK FIT EXTENSION



- Telescope version (drilled through, without back-up screw)
- For shank tolerance h6
- Order no. 78.XXX.2 with slits along the clamping bore (diameter D1) for proper clamping and coolant around the cutting tool

INCH		Ø D3	Ø D2	Clamping Ø D1	Gage length A	Cooling body	Adapter
Order No.	78.1/2Z0.1/8Z.2	1/2"	0.31"	1/8"	6.30"	Ø 14–16	80.105.14.1.1
Order No.	78.1/2Z0.3/16Z.2	1/2"	0.31"	3/16"	6.30"	Ø 14–16	80.105.14.1.1
Order No.	78.5/8Z0.1/8Z.2	5/8"	0.39"	1/8"	6.30"	Ø 14–16	80.105.14.1.1
Order No.	78.5/8Z0.3/16Z.2	5/8"	0.39"	3/16"	6.30"	Ø 14–16	80.105.14.1.1
Order No.	78.5/8Z0.1/4Z.1	5/8"	0.39"	1/4"	6.30"	Ø 14–16	80.105.14.1.1
Order No.	78.3/4Z0.1/4Z.1	3/4"	0.55"	1/4"	6.30"	Ø 14–16	80.105.14.1.2
Order No.	78.3/4Z0.3/8Z.1	3/4"	0.55"	3/8"	6.30"	Ø 14–16	80.105.14.1.2
Order No.	78.1Z0.3/8Z.1	1"	0.79"	3/8"	6.30"	Ø 6–8	-
Order No.	78.1Z0.1/2Z.1	1"	0.79"	1/2"	6.30"	Ø 6–8	-
Order No.	78.1Z0.5/8Z.1	1"	0.87"	5/8"	6.30"	Ø 10–12	-
Order No.	78.11/4Z0.3/8Z.1	1 1/4"	0.94"	3/8"	6.30"	Ø 14–16	-
Order No.	78.11/4Z0.1/2Z.1	1 1/4"	0.94"	1/2"	6.30"	Ø 14–16	-
Order No.	78.11/4Z0.5/8Z.1	1 1/4"	1.06"	5/8"	6.30"	Ø 14–16	-

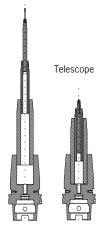
METRIC [mm]		Ø D3	Ø D2	Clamping Ø D1	Gage length A	Cooling body	Adapter
Order No.	78.120.03.2	12	8	3	160	Ø 14–16	80.105.14.1.1
Order No.	78.120.04.2	12	8	4	160	Ø 14–16	80.105.14.1.1
Order No.	78.160.03.2	16	10	3	160	Ø 14–16	80.105.14.1.1
Order No.	78.160.04.2	16	10	4	160	Ø 14–16	80.105.14.1.1
Order No.	78.160.05.2	16	10	5	160	Ø 14–16	80.105.14.1.1
Order No.	78.160.06.1	16	10	6	160	Ø 14–16	80.105.14.1.1
Order No.	78.200.05.2	20	14	5	160	Ø 14–16	80.105.14.1.2
Order No.	78.200.06.1	20	14	6	160	Ø 14–16	80.105.14.1.2
Order No.	78.200.08.1	20	14	8	160	Ø 14–16	80.105.14.1.2
Order No.	78.250.08.1	25	19	8	160	Ø 6–8	-
Order No.	78.250.10.1	25	20	10	160	Ø 6–8	-
Order No.	78.250.12.1	25	20	12	160	Ø 6–8	-
Order No.	78.250.14.1	25	20	14	160	Ø 6–8	-
Order No.	78.250.16.1	25	22	16	160	Ø 10–12	-
Order No.	78.320.10.1	32	27	10	160	Ø 14–16	-
Order No.	78.320.12.1	32	27	12	160	Ø 14–16	-
Order No.	78.320.14.1	32	27	14	160	Ø 14–16	_
Order No.	78.320.16.1	32	27	16	160	Ø 14–16	_
Order No.	78.320.20.1	32	27	20	160	Ø 14–16	-

The external contour of the shrinking extensions can be modified later as required

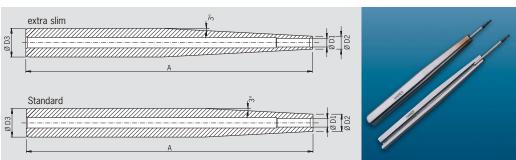
Technical data and availability subject to change without prior notice

Telescope

MINI SHRINK EXTENSION



- 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.



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

- Standard version: with high clamping force
- Extra slim version: extremely slim for fine machining and for jobs very difficult to reach

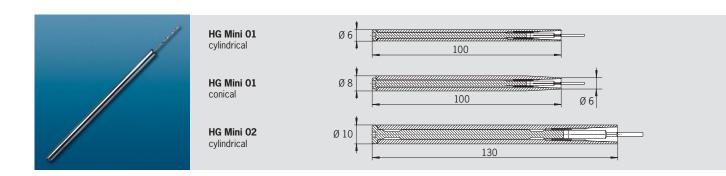
Attention: Heating and cooling only with shrink and cooling sleeves (see accessories)

Standard version Order No.	Length A [inch]	Outer Ø D3 [inch]	Shank tolerance	Clamping Ø D1 [inch]	Ø D2 [inch]	Cooling body	Adapter
77.5/8Z2.1/8Z	6.30"	5/8"	h6	1/8"	0.35"	Ø 6–8	80.105.14.2.04
77.5/8Z2.3/16Z	6.30"	5/8"	h6	3/16"	0.43"	Ø 6–8	80.105.14.2.05
77.5/8Z2.1/4Z	6.30"	5/8"	h6	1/4"	0.47"	Ø 6–8	80.105.14.2.09
77.5/8Z2.3/8Z	6.30"	5/8"	h6	3/8"	0.63"	Ø 6–8	80.105.14.2.11
77.3/4Z2.1/4Z	7.87"	3/4"	h6	1/4"	0.47"	Ø 6–8	80.105.14.2.09
77.3/4Z2.3/8Z	7.87"	3/4"	h6	3/8"	0.63"	Ø 6–8	80.105.14.2.11
77.3/4Z2.1/2Z	7.87"	3/4"	h6	1/2"	0.71"	Ø 6–8	80.105.14.2.12
Extra slim							
77.5/8Z0.1/8Z	6.30"	5/8"	h6	1/8"	0.24"	Ø 6–8	80.105.14.2.01
77.5/8Z0.3/16Z	6.30"	5/8"	h6	3/16"	0.32"	Ø 6–8	80.105.14.2.03
77.5/8Z0.1/4Z	6.30"	5/8"	h6	1/4"	0.35"	Ø 6–8	80.105.14.2.04
77.5/8Z0.3/8Z	6.30"	5/8"	h6	3/8"	0.51"	Ø 6–8	80.105.14.2.06
77.3/4Z0.1/4Z	7.87"	3/4"	h6	1/4"	0.35"	Ø 6–8	80.105.14.2.04
77.3/4Z0.3/8Z	7.87"	3/4"	h6	3/8"	0.51"	Ø 6–8	80.105.14.2.06
77.3/4Z0.1/2Z	7.87"	3/4"	h6	1/2"	0.59"	Ø 6–8	80.105.14.2.07

Standard version Order No.	Length A [mm]	Outer Ø D3 [mm]	Shank tolerance	Clamping Ø D1 [mm]	Ø D2 [mm]	Cooling body	Adapter
77.162.03	160	16	h6	3	9	Ø 6–8	80.105.14.2.04
77.162.04	160	16	h6	4	10	Ø 6–8	80.105.14.2.08
77.162.05	160	16	h6	5	11	Ø 6–8	80.105.14.2.05
77.162.06 ¹⁾	160	16	h6	6	12	Ø 6–8	80.105.14.2.09
77.162.081)	160	16	h6	8	14	Ø 6–8	80.105.14.2.10
77.162.10 ¹⁾	160	16	h6	10	16	Ø 6–8	80.105.14.2.11
77.202.06	200	20	h6	6	12	Ø 6–8	80.105.14.2.09
77.202.08	200	20	h6	8	14	Ø 6–8	80.105.14.2.10
77.202.10	200	20	h6	10	16	Ø 6–8	80.105.14.2.11
77.202.12	200	20	h6	12	18	Ø 6–8	80.105.14.2.12
Extra slim							
77.160.03	160	16	h6	3	6	Ø 6–8	80.105.14.2.01
77.160.04	160	16	h6	4	7	Ø 6–8	80.105.14.2.02
77.160.05	160	16	h6	5	8	Ø 6–8	80.105.14.2.03
77.160.06 ¹⁾	160	16	h6	6	9	Ø 6–8	80.105.14.2.04
77.160.081)	160	16	h6	8	11	Ø 6–8	80.105.14.2.05
77.160.101)	160	16	h6	10	13	Ø 6–8	80.105.14.2.06
77.200.06	200	20	h6	6	9	Ø 6–8	80.105.14.2.04
77.200.08	200	20	h6	8	11	Ø 6–8	80.105.14.2.05
77.200.10	200	20	h6	10	13	Ø 6–8	80.105.14.2.06
77.200.12	200	20	h6	12	15	Ø 6–8	80.105.14.2.07

1) With adjustment screw

HG MINI EXTENSIONS



	HG Mini 01 cylindrical	HG Mini 01 conical	HG Mini 02 cylindrical
Size 01	A = 100 mm	A = 100 mm	A = 130 mm
Outer diam.	6 mm cylindrical	6 – 8 mm conical	10 mm cylindrical
Clamping range Ø	1 – 2.5 mm	1 – 2.5 mm	2.5 – 4.5 mm
Order No.	82.611.01	82.621.01	82.610.02

Collets for HG Mini 01

Clamping	ØD [mm]	1	1.5	2	2.5
Order No.	82.650	010	015	020	025

Collets for HG Mini 02

Clamping	ØD [mm]	2	2.5	3	3.5	4	4.5
Order No.	82.660	020	025	030	035	040	045







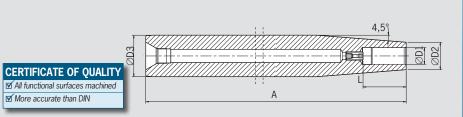
Assembly device for HG Mini

Accessories			
Torque wrench for HG Mini (pre-adjusted)			
Size	01	02	
Order No.	82.576.00	82.577.00	

Technical data subject to change without prior notice

HEAVY DUTY SHRINK FIT EXTENSIONS





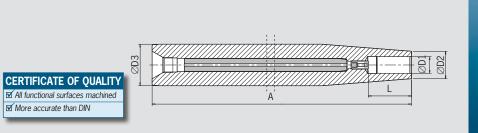


Heavy Duty Shrink Fit Extensions

- HAIMER as full system provider: The consistent addition to the Heavy Duty Chucks
- Extremely stable with 50 mm outer diameter
- Safe support of the tool with setscrews
- Heavy machining also in hidden angles: Length of 400 and 600 mm
- The extensions can be shortened to customer's needs on request
- Solid carbide inserts for vibration dampening on request

Heavy Duty Shrink Fit Extensions without solid carbide core

Clamping	Ø D1 [mm]	16	20	25	
	Ø D2 [mm]	27	33	44	
	Ø D3 [mm]	50	50	50	
	L [mm]	50	52	58	
Length A [mm] Order No.	oversize 78.502	400 16	400 20	400 25	
Length A [mm] Order No.	ZG600 78.506	600 16	600 20	600 25	





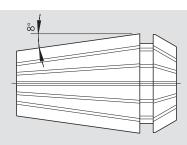
Heavy Duty Shrink Fit Extensions with solid carbide core

Clamping	Ø D1 [mm]	16	20	25
	Ø D2 [mm]	27	33	44
	Ø D3 [mm]	50	50	50
	L [mm]	50	52	58
Length A [mm] Order No.	oversize 78.502	400 16.9	400 20.9	400 25.9
Length A [mm] Order No.	ZG600 78.506	600 16.9	600 20.9	600 25.9

Technical data subject to change without prior notice

HIGH PRECISION ER COLLETS





- Guaranteed 0.0002" maximum runout or better, when measured at 3 times the tool diameter.
- High polished finish for improved accuracy
- Superior clamping strength
- Fits all brands of ER collet chucks
- Sealed discs and nuts available upon request

ER 11 Order No.	metric [mm]	Ø inch]
81.110.1	0.50 1.00	1/32"
81.110.2	1.50 2.00	1/16"
81.110.3	2.50 3.00	-
81.110.3.5	3.00 3.50	1/8"
81.110.4	3.50 4.00	5/32"
81.110.4.5	4.00 4.50	-
81.110.5	4.50 5.00	3/16"
81.110.5.5	5.00 5.50	-
81.110.6	5.50 6.00	7/32"
81.110.6.5	6.00 6.50	1/4"
81.110.7	6.50 7.00	-

ER 16 Order No.	metric [mm]
81.160.1	0.50 1.00
81.160.2	1.50 2.00
81.160.3	2.50 3.00
81.160.4	3.00 4.00
81.160.5	4.00 5.00
81.160.6	5.00 6.00
81.160.7	6.00 7.00
81.160.8	7.00 8.00
81.160.9	8.00 9.00
81.160.10	9.00 10.00

ER 16 Order No.	Ø inch]
81.160.1/16z	1/16"
81.160.1/8z	1/8"
81.160.3/16z	3/16"
81.160.1/4z	1/4"
81.160.5/16z	5/16"
81.160.3/8z	3/8"
	-, -

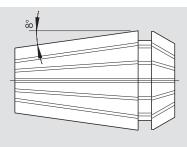
ER 20 Order No.	metric [mm]
81.200.2	1.00 2.00
81.200.3	2.00 3.00
81.200.4	3.00 4.00
81.200.5	4.00 5.00
81.200.6	5.00 6.00
81.200.7	6.00 7.00
81.200.8	7.00 8.00
81.200.9	8.00 9.00
81.200.10	9.00 10.00
81.200.11	10.00 11.00
81.200.12	11.00 12.00
81.200.13	12.00 13.00

ER 20 Order No.	Ø inch]
81.200.1/8z	1/8"
81.200.3/16z	3/16"
81.200.1/4z	1/4"
81.200.5/16z	5/16"
81.200.3/8z	3/8"
81.200.7/16z	7/16"
81.200.1/2z	1/2"

ER 25 Order No.	metric [mm]
81.250.2	1.00 2.00
81.250.3	2.00 3.00
81.250.4	3.00 4.00
81.250.5	4.00 5.00
81.250.6	5.00 6.00
81.250.7	6.00 7.00
81.250.8	7.00 8.00
81.250.9	8.00 9.00
81.250.10	9.00 10.00
81.250.11	10.00 11.00
81.250.12	11.00 12.00
81.250.13	12.00 13.00
81.250.14	13.00 14.00
81.250.15	14.00 15.00
81.250.16	15.00 16.00

ER 25 Order No.	Ø inch]
81.250.1/8z	1/8"
81.250.3/16z	3/16"
81.250.1/4z	1/4"
81.250.5/16z	5/16"
81.250.3/8z	3/8"
81.250.7/16z	7/16"
81.250.1/2z	1/2"
81.250.9/16z	9/16"
81.250.5/8z	5/8"

HIGH PRECISION ER COLLETS





- Guaranteed 0.0002" maximum runout or better, when measured at 3 times the tool diameter.
- High polished finish for improved accuracy
- Superior clamping strength
- Fits all brands of ER collet chucks
- Sealed discs and nuts available upon request

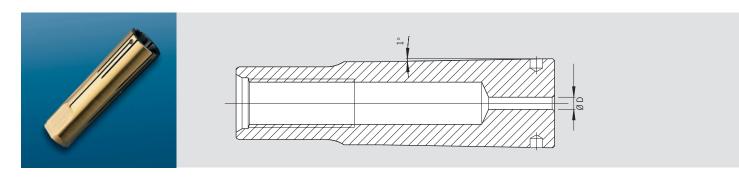
ER 32 Order No.	metric [mm]
81.320.2	1.00 2.00
81.320.3	2.00 3.00
81.320.4	3.00 4.00
81.320.5	4.00 5.00
81.320.6	5.00 6.00
81.320.7	6.00 7.00
81.320.8	7.00 8.00
81.320.9	8.00 9.00
81.320.10	9.00 10.00
81.320.11	10.00 11.00
81.320.12	11.00 12.00
81.320.13	12.00 13.00
81.320.14	13.00 14.00
81.320.15	14.00 15.00
81.320.16	15.00 16.00
81.320.17	16.00 17.00
81.320.18	17.00 18.00
81.320.19	18.00 19.00
81.320.20	19.00 20.00

ER 32 Order No.	Ø inch]
81.320.1/8z	1/8"
81.320.3/16z	3/16"
81.320.1/4z	1/4"
81.320.5/16z	5/16"
81.320.3/8z	3/8"
81.320.7/16z	7/16"
81.320.1/2z	1/2"
81.320.9/16z	9/16"
81.320.5/8z	5/8"
81.320.11/16z	11/16"
81.320.3/4z	3/4"

ER 40 Order No.	metric [mm]
81.400.3	2.00 3.00
81.400.4	3.00 4.00
81.400.5	4.00 5.00
81.400.6	5.00 6.00
81.400.7	6.00 7.00
81.400.8	7.00 8.00
81.400.9	8.00 9.00
81.400.10	9.00 10.00
81.400.11	10.00 11.00
81.400.12	11.00 12.00
81.400.13	12.00 13.00
81.400.14	13.00 14.00
81.400.15	14.00 15.00
81.400.16	15.00 16.00
81.400.17	16.00 17.00
81.400.18	17.00 18.00"
81.400.19	18.00 19.00
81.400.20	19.00 20.00
81.400.21	20.00 21.00
81.400.22	21.00 22.00
81.400.23	22.00 23.00
81.400.24	23.00 24.00
81.400.25	24.00 25.00
81.400.26	25.00 26.00

ER 40 Order No.	Ø inch]
81.400.1/4z	1/4"
81.400.5/16z	5/16"
81.400.3/8z	3/8"
81.400.7/16z	7/16"
81.400.1/2z	1/2"
81.400.9/16z	9/16"
81.400.5/8z	5/8"
81.400.3/4z	3/4"
81.400.7/8z	7/8"
81.400.1z	1"

HG COLLETS AND HG CONE WIPER



HG Collets

For clamping tools with cylindrical shank with utmost precision in HG chucks

INCH HG					
HG 01 Ø D [inch]		1/8"	3/16"	1/4"	5/16"
Order No.	82.510	1/8Z	3/16Z	1/4Z	5/16Z
HG 02 Ø D [inch]		3/8"	7/16"	1/2"	9/16"
Order No.	82.520	3/8Z	7/16Z	1/2Z	9/16Z
HG 03 Ø D [inch]		5/8"	3/4"		
Order No.	82.530	5/8Z	3/4Z		

METRIC HG											
HG 01 Ø D [mm]	2	2.5	3	4	4.5	5	5.5	6	7	8	9
Order No. 82.510	2	2.5	3	4	4.5	5	5.5	6	7	8	9
HG 02 Ø D [mm]	10	11	12	12.5	14						
Order No. 82.520	10	11	12	12.5	14						
HG 03 Ø D [mm]	16	18	20								
Order No. 82.530	16	18	20								

Accessories See also accessories

Spare parts Pull	-out hook	
HG		
Order No.	82.570.00	

Cone wiper

For cleaning tool holder I.D. of HG chuck

HG		for HG 01	for HG 02	for HG 03
Order No.	82.590	01	02	03

1) On request

TOOL CLAMP DEVICE





The new tool assembly device:

- Secure tool assembling
- Minimum locking force needed
- Quick-change function for different taper interfaces without additional $\,$
- Accident-free assembling of cutting tools

- Spring-loaded locking pin
- Mechanical security pin
- Better tool clamping thanks to optimum ergonomics
- Replaceable brass tool pots protect the taper surface
- Required space 140 x 100 mm



Tool Clamp without tool holder, 4 x 90° indexable	
Order No.	84.700.00

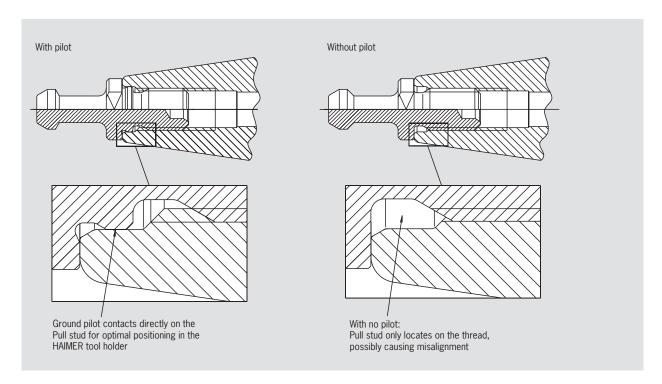


Tool holder CAT (DIN / MAS-BT / SK)	
Order No.	Туре
84.701.30	Cat / BT /SK / ISO 30
84.701.40	Cat / BT /SK / ISO 40
84.701.50	Cat / BT /SK / ISO 50

Tool holder HSK-A (DIN 69893/1)	
Order No.	Туре
84.702.40	HSK-A 40
84.702.50	HSK-A 50
84.702.63	HSK-A 63
84.702.80	HSK-A 80
84.702.10	HSK-A 100

Tool holder HSK-E	
Order No.	Туре
84.703.40	HSK-E 40
84.703.50	HSK-E 50
84.703.63	HSK-E 63
84.703.80	HSK-E 80
84.703.10	HSK-E 100

CAT 40/CAT 50 PULL STUD INFORMATION



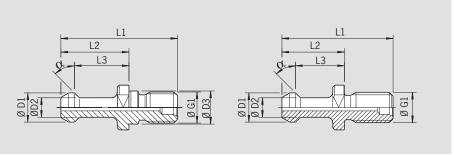
Haimer goes far beyond the requirements of CAT 40 tooling. Our experience with tool holders and balancing have merged together to successfully create far superior CAT tapered tooling.

In addition to our contact and 100% inspection process of our tapers, Haimer has developed a spezial feature to greatly increase your tool holder balance repeatability ad your machine tool spindle draw mechanismen repeatability.

We have added a ground pilot in the rear of all our CAT 40 tool holders. This ground pilot fits perfectly with the spezial Haimer pull stud to maximize your tool holder to machine tool connection. The ground pilot is larger than the standard ANSI dimension, so you can easily use any pull stud from any manufacturer. However, for those serious about balance and machine tool spindle draw repeatability, Haimer has the answer for you with our spezial pull stud/pilot connection!

PULL STUDS





Version with ground pilot is used to help consistently locate the pull stud in the tool holder. Great for run out accuracy, balance repeatability and machine tool draw bar consistency.

All HAIMER tool holders are provided with ground center-bore to match pull stud pilot (all standard pull studs can be used as well).

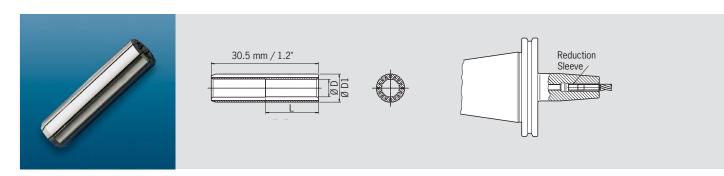
CAT 40 / BT 40 / SK 40

Without coolant	With coolant			1	T		1	T	T
through hole	through hole	G1	D1	D2	D3	L1	L2	L3	α
Order No.									
MAS 45°									
88.601.40		M16	0.59"	0.39"	0.67"	2.36"	1.38"	1.10"	45°
88.611.40	88.613.40	5/8"-11UNC"	0.59"	0.39"	_	2.25"	1.27"	0.99"	45°
88.621.40	88.623.40	5/8"-11UNC" + pilot	0.59"	0.39"	0.67"	2.25"	1.27"	0.99"	45°
JIS 6339 Makino									
_	88.700.40	M16	0.75"	0.55"	0.67"	2.13"	1.14"	0.91"	15°
-	88.710.40	5/8"-11UNC"	0.75"	0.55"	_	2.01"	1.03"	0.79"	15°
-	88.720.40	5/8"-11UNC" + pilot	0.75"	0.55"	0.67"	2.01"	1.03"	0.79"	15°
ANSI B5.5 Mazak									
-	88.510.40	5/8"-11UNC"	0.74"	0.49"	_	1.62"	0.64"	0.44"	45°
-	88.520.40	5/8"-11UNC" + pilot	0.74"	0.49"	0.67"	1.62"	0.64"	0.44"	45°
MAS 90° Mori Seiki									
88.111.40	-	5/8"-11UNC"	0.59"	0.39"	_	2.25"	1.27"	0.99"	90°
88.121.40	-	5/8"-11UNC" + pilot	0.59"	0.39"	0.67"	2.25"	1.27"	0.99"	90°
DIN 69872									
-	88.200.40	M16	0.55"	0.75"	0.67"	2.13"	1.02"	0.78"	15°

CAT 50 / BT 50 / SK 50

Without coolant through hole	With coolant through hole	G1	D1	D2	D3	L1	L2	L3	$ _{\alpha}$
Order No. MAS 45°									
88.601.50	-	M24	0.91"	0.67"	0.98"	3.35"	1.77"	1.38"	45°
88.611.50	88.613.50	1"-8UNC"	0.91"	0.67"	-	3.35"	1.78"	1.39"	45°
88.621.50	88.623.50	1"-8UNC" + pilot	0.91"	0.67"	1.06"	3.35"	1.78"	1.39"	45°

REDUCTION SLEEVES



Use:

For clamping small shanks in chucks with \emptyset 5/16" or 8 mm ID's. First step: press reduction sleeve into bore of chuck Second step: clamp tool shank in reduction sleeve.

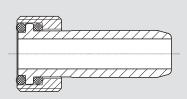
For use in all chucks for reduction

- HG-chucks
- Collet chucks
- Hydraulic chucks
- Other high precision mechanical chucks.

INCH		Ø D	Ø D1	L
Order No.	79.110.3/32Z	3/32"	5/16"	0.27"
Order No.	79.110.1/8Z	1/8"	5/16"	0.35"
Order No.	79.110.5/32Z	5/32"	5/16"	0.47"
Order No.	79.110.3/16Z	3/16"	5/16"	0.56"
Order No.	79.110.7/32Z	7/32"	5/16"	0.65"

METRIC [mm]		ØD	Ø D1	L
Order No.	79.110.2.5	2.5	8	7.5
Order No.	79.110.3	3	8	9
Order No.	79.110.3.5	3.5	8	10.5
Order No.	79.110.4	4	8	12
Order No.	79.110.4.5	4.5	8	13.5
Order No.	79.110.5	5	8	15
Order No.	79.110.5.5	5.5	8	16.5

COOLANT TUBES





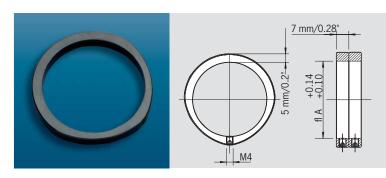
- Dual o-ring design makes tube slightly movable
- Coated steel with smooth surface for trouble free insertion into machine spindle
- Fits all brands of HSK holders
- Must be used with all coolant through HSK spindles

Coolant tube wit	th 2 o-rings		for HSK A 40 for HSK E 40			for HSK A 80	for HSK A 100	for HSK A 125
Order No.	85.700	32	40	50	63	80	100	125

Accessories

Wrench		HSK 32	HSK 40	HSK 50	HSK 63	HSK 80	HSK 100
Order No.	84.500	32	40	50	63	80	100

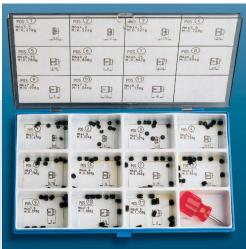
BALANCING INDEX RINGS SET OF BALANCING SCREWS



Make your standard tool holder a balanceable tool holder quick and easily

- Included in delivery: 2 balancing index rings with screws

- Tightening torque: 1 ft lb (1.4 Nm)

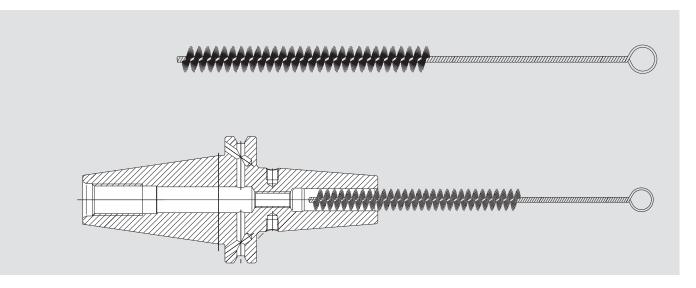


Set of balancing screws comprising 11 x 10 screws and screw driver **Order No. 80.203.00**

Order No.	Ø A [mm]	Ø A [inch]	ca. unbalance
79.350.15	15	0.59"	9 g⋅mm
79.350.17	17	0.67"	12 g⋅mm
79.350.19	19	0.75"	16 g⋅mm
79.350.20	20	0.79"	17 g⋅mm
79.350.22	22	0.87"	20 g⋅mm
79.350.24	24	0.94"	27 g⋅mm
79.350.25	25	0.98"	32 g⋅mm
79.350.26	26	1.02"	33 g⋅mm
79.350.27	27	1.06"	33 g⋅mm
79.350.28	28	1.10"	40 g⋅mm
79.350.30	30	1.18"	45 g⋅mm
79.350.32	32	1.26"	36 g⋅mm
79.350.34	34	1.34"	40 g⋅mm
79.350.35	35	1.38"	48 g·mm
79.350.36	36	1.42"	47 g⋅mm
79.350.38	38	1.50"	53 g⋅mm
79.350.40	40	1.57"	57 g⋅mm
79.350.42	42	1.65"	65 g⋅mm
79.350.43	43	1.69"	65 g⋅mm
79.350.1.71Z	43.45	1.71"	68 g⋅mm
79.350.44	44	1.73"	68 g⋅mm
79.350.46	46	1.81"	75 g⋅mm
79.350.48	48	1.89"	81 g⋅mm
79.350.50	50	1.97"	87 g⋅mm
79.350.52	52	2.05"	94 g⋅mm
79.350.53	53	2.09"	86 g⋅mm
79.350.54	54	2.13"	91 g⋅mm

79.330.33	33				
79.350.54	54				
2 m hex wrench not included					
HAIMER rings will work on many brands of tool holders					

Order No.	Ø A [mm]	Ø A [inch]	ca. unbalance
79.350.55	55	2.17"	94 g⋅mm
79.350.56	56	2.20"	100 g⋅mm
79.350.58	58	2.28"	106 g⋅mm
79.350.60	60	2.36"	110 g⋅mm
79.350.62	62	2.44"	120 g⋅mm
79.350.63	63	2.48"	123 g⋅mm
79.350.64	64	2.52"	126 g⋅mm
79.350.65	65	2.56"	129 g⋅mm
79.350.66	66	2.60"	120 g⋅mm
79.350.68	68	2.68"	135 g⋅mm
79.350.70	70	2.76"	145 g⋅mm
79.350.72	72	2.83"	152 g⋅mm
79.350.74	74	2.91"	160 g⋅mm
79.350.76	76	2.99"	168 g⋅mm
79.350.78	78	3.07"	178 g⋅mm
79.350.80	80	3.15"	186 g⋅mm
79.350.82	82	3.23"	199 g⋅mm
79.350.84	84	3.31"	215 g⋅mm
79.350.86	86	3.39"	224 g·mm
79.350.87	87	3.43"	225 g⋅mm
79.350.88	88	3.46"	226 g·mm
79.350.89	89	3.50"	231 g⋅mm
79.350.90	90	3.54"	237 g·mm
79.350.92	92	3.62"	247 g·mm
79.350.94	94	3.70"	253 g·mm
79.350.96	96	3.78"	267 g⋅mm
79.350.98	98	3.86"	277 g⋅mm
79.350.100	100	3.94"	285 g·mm

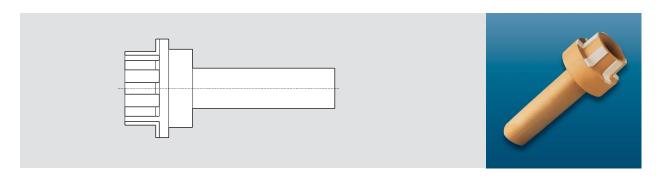


In order to achieve the best possible shrink fit connection, a grease free socket and shank is necessary. The cleaning can be done by a cold solvent (e.g. brake cleaner). An appropriate cleaning brush is necessary to clean the socket of the Shrink Fit Chuck.

Shrink Fit Chuck Order No.	Ø [inch]
86.200.01	1/8" (3.175)
86.200.02	3/16" (4.762)
86.200.03	1/4" (6.35)
86.200.03	5/16" (7.93)
86.200.04	3/8" (9.525)
86.200.04	7/16" (11.112)
86.200.05	1/2" (12.7)
86.200.06	5/8" (15.875)
86.200.07	3/4" (19.05)
86.200.08	1" (25.4)

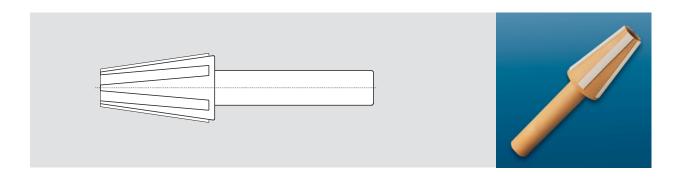
Shrink Fit Chuck Order No.	Ø [mm]
86.200.01	3
86.200.02	3.5
86.200.02	4
86.200.02	4.5
86.200.02	5
86.200.03	6
86.200.03	8
86.200.04	10
86.200.04	12
86.200.06	14
86.200.06	16
86.200.07	18
86.200.07	20
86.200.08	25

CONE WIPER

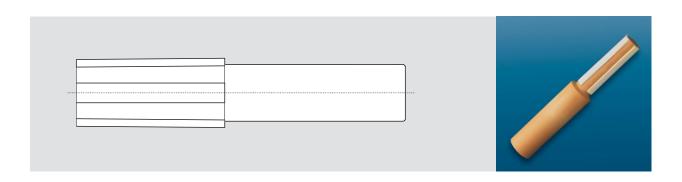


For cleaning tool holders

Cone wiper HSK		for HSK 32	for HSK 40	for HSK 50	for HSK 63	for HSK 80	for HSK 100
Order No.	85.820	32	40	50	63	80	100

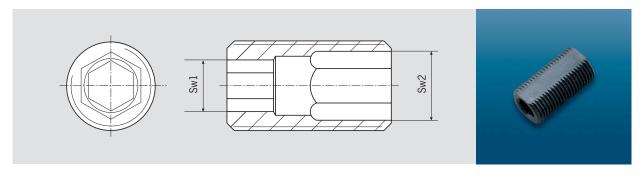


Cone wiper SK, BT, CAT	for SK 40	for BT 40	for CAT 40	for SK 50	for BT 50	for CAT 50
Order No. 86.100	40	40	40	50	50	50



Cone wiper HG		for HG 01	for HG 02	for HG 03		
Order No.	82.590	01	02	03		

BACK UP SCREWS FOR SHRINK FIT CHUCKS



- Hexagon socket on each end can always be reached
- Flats on sides for optimized coolant drainage
- Fine thread for maximum accuracy

[mm]		CAT 40/50 SK 40/50 BT 40/50	HSK-A 32/E 32 A 40/E 40	HSK-A 50/ E 50	HSK-A 63	HSK-F 63	HSK-A 80	HSK-A 100
Clamping Ø	Lenght Order No.							
6	85.810	12.1	12.1	12.1	12.1	12.1	12.1	12.1
8		15.1	15.1	15.1	15.1	15.1	15.1	15.1
10	short other	18.2 18.2	18.2 36.2	18.2 36.2	18.2 36.2	18.2 36.2	18.2 36.2	18.2
12	short other	24.2 24.2	24.2 ²⁾ 24.2	39.2 24.2	39.2 24.2	39.2 24.2	21.2 24.2	21.2
14	short ZG130/oversize	24.2 24.2	24.2 24.2	39.2 24.2	39.2 24.2	-	21.2 24.2	21.2
16	short ZG130/oversize	46.2 46.2	27.2 27.2	25.2 38.2	25.2 46.2	25.2 46.2	27.2 46.2	40.1
18	short ZG130/oversize	46.2 46.2 ¹⁾	-	25.2 38.2	25.2 46.2	-	27.2 46.2	40.1
20	short ZG130/oversize	52.2 (37.2) ³⁾ 52.2 (37.2) ³⁾						51.2 (45.2) ³⁾ 52.2 (37.2) ³⁾
25	short ZG130/oversize	52.2 (37.2) ³⁾ 52.2 (37.2) ³⁾		- -				52.2 (46.2) ³⁾ 52.2 (37.2) ³⁾
32	short ZG130/oversize	52.2 (37.2) ³⁾ 52.2 (37.2) ³⁾		-	52.2 (37.2) ³⁾ 52.2 (37.2) ³⁾		, ,	52.2 (37.2) ³⁾ 52.2 (37.2) ³⁾

Order No.	SW1	SW2	Thread
85.810.12.1	SW2.5	SW2.5	M5x0.8x16
85.810.15.1	SW3	SW3	M6x1x16
85.810.18.2	SW3	SW4	M8x1x16
85.810.24.2	SW4	SW5	M10x1x20
85.810.37.2	SW6	SW8	M12x1x22
85.810.46.2	SW6	SW8	M12x1x20
85.810.25.2	SW5	SW6	M12x1x18
85.810.27.2	SW4	SW6	M12x1x18
85.810.36.2	SW3	SW4	M8x1x20

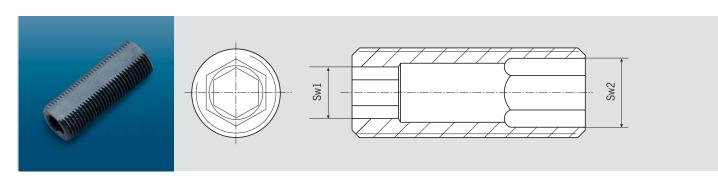
Order No.	SW1	SW2	Thread
85.810.21.2	SW4	SW5	M10x1x16
85.810.38.2	SW5	SW6	M12x1x22
85.810.39.2	SW4	SW5	M10x1x18
85.810.40.1	SW6	SW6	M12x1x16
85.810.43.2	SW5	SW8	M12x1x18
85.810.44.2	SW5	SW8	M12x1x22
85.810.45.2	SW6	SW8	M12x1x18
85.810.51.2	SW5	SW8	M16x1x18
85.810.52.2	SW6	SW8	M16x1x22

Technical data and availability subject to change without prior notice

1) BT 40 Ø 18 ZG130 = Order No. 85.810.37.2 2) $HSK-32 \varnothing 12 = Order No. 85.810.36.2$

3) Pos. in () for old Standard

BACK UP SCREWS LONG FOR SHRINK FIT CHUCKS



- Hexagon socket on each end can always be reached
- Flats on sides for optimized coolant drainage
- Fine thread for maximum accuracy

[mm]		CAT 40/50 SK 40/50 BT 40/50	HSK-A 32/E 32 A 40/E 40	HSK-A 50 E 50	HSK-A63	HSK-F 63	HSK-A80	HSK-A 100
Clamping Ø	Length Order No.							
6	85.810	12.4	12.4	12.4	12.4	12.4	12.4	12.4
8		15.4	15.4	15.4	15.4	15.4	15.4	15.4
10		18.4	18.4	18.4	18.4	18.4	18.4	18.4
12		21.4	21.41)	21.4	21.4	21.4	21.4	21.4
14		21.4	21.4	21.4	21.4	21.4	21.4	21.4
16	short ZG130/oversize	37.4 37.4	27.4 27.4	25.4 25.4	25.4 37.4	25.4 37.4	27.4 37.4	40.4
18	short ZG130/oversize	37.4 37.4	-	25.4 25.4	25.4 37.4	25.4 37.4	27.4 37.4	40.4
20	short ZG130/oversize	52.4 (37.4) ²⁾ 52.4 (37.4) ²⁾						52.4 (37.4) ²⁾ 52.4 (37.4) ²⁾
25		52.4 (37.4)2)	-	-	52.4 (37.4)2)	52.4 (37.4)2)	52.4 (37.4)2)	52.4 (37.4)2)
32		52.4 (37.4)2)	_	_	52.4 (37.4)2)	52.4 (37.4)2)	52.4 (37.4)2)	52.4 (37.4)2)

Order No.	SW1	SW2	Thread
85.810.12.4	SW2.5	SW2.5	M5x0.8x24
85.810.15.4	SW3	SW3	M6x1x24
85.810.18.4	SW3	SW4	M8x1x24
85.810.21.4	SW4	SW5	M10x1x28
85.810.37.4	SW6	SW8	M12x1x34
85.810.43.4	SW5	SW8	M12x1x34
85.810.25.4	SW5	SW6	M12x1x34
85.810.27.4	SW4	SW6	M12x1x34
85.810.52.4	SW6	SW8	M16x1x34

1) HSK-A 32 Ø 12 = Order No. 85.810.18.4 2) Pos. in () for old Standard

Technical data and availability subject to change without prior notice

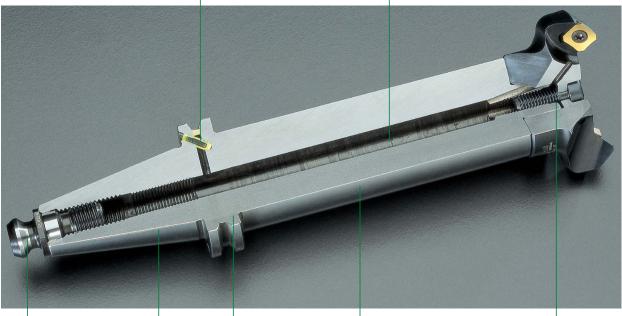
TAPER AND HOLDER **SPECIFICATIONS**

Features and Benefits:

- Taper: Micron-exact manufacturing (AT3) extends the life of your spindle due to superior taper contact
- All Tapers inspected during production to ensure maximum taper contact = maximum accuracy
- All tool holders easily balanceable
- Tapers Form ADB. Central coolant supply through the pull stud (Form AD, pull stud drilled through) and coolant channels through the flange (Form B, pull stud sealed) which can be sealed again
- All holders marked with an identification number
- All holders come standard with bore for data chip (Except BT Tapers)
- Pre-balanced to G 2.5 at 25,000 rpm
- Fine balancing available at an extra charge
- Many tapers available (for SK 40 and SK 50, HSK-A 32, HSK-A 50 and HSK-A 80 please see European catalogs)
- 3 piece minimum order quantity on specials or discontinued items

Supply of coolant centrally through the flange

The interior: All tool holders contain a bore for coolant through



Pull Stud: Quality in all details. Strength, toughness and precision

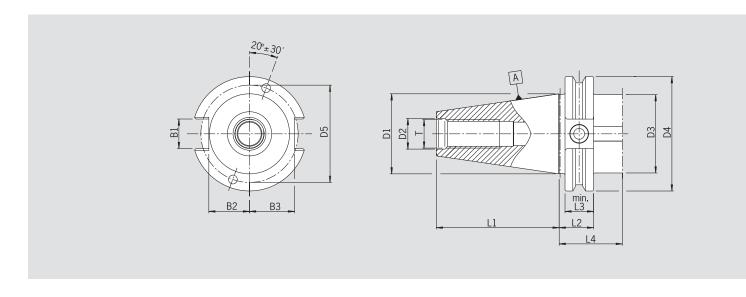
Pre-balanced to G 2.5/25,000 rpm

Taper: Micron-exact manufacturing (AT3) extends the life of your spindle due to superior taper contact

Precision in concentricity: For highest demands and minimal run-out, also for long version. Shown with coolant bores (option)

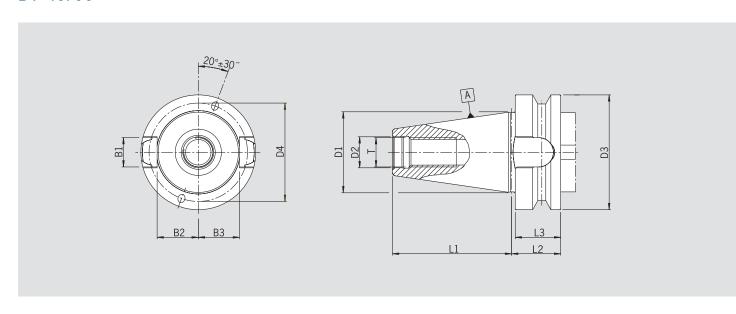
Shank: Precision machined of cast steel. Maximum machining capability due to extended length options

OVERVIEW OF TAPERS CAT 40/50



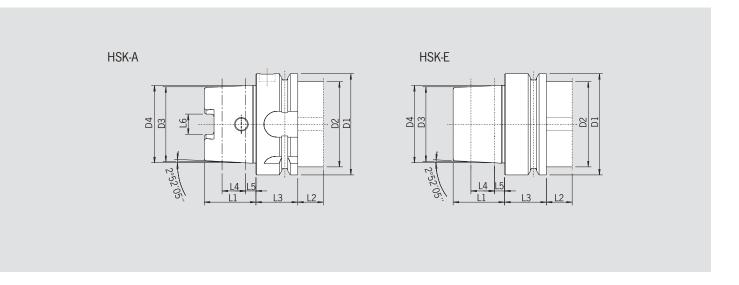
INCH	Taper Size	D1	D2	D3 max.	D4	D5	L1	L2	L3	L4 min.	T	B1	B2	В3
CAT 40		1.75	0.669	1.71	2.5	2.126	2.687	0.75	0.625	1.38	5/8"-11	0.646	0.89	0.894
CAT 50		2.75	1.063	2.71	3.875	3.307	4.0	0.75	0.625	1.38	1"-8	1.02	1.39	1.484

OVERVIEW OF TAPERS BT 40/50

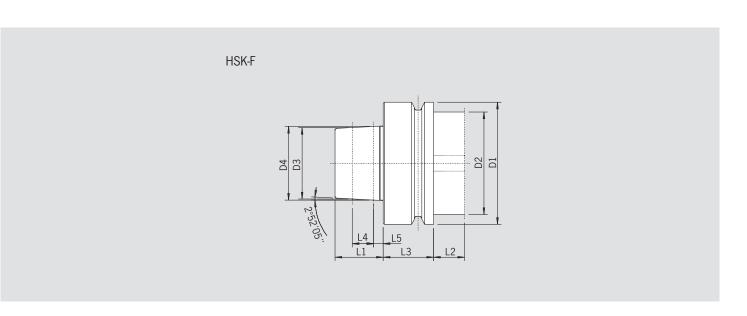


METRIC	Taper Size [mm]	D1	D2	D3	D4	L1	L2	L3	L4	T	B1	B2
BT30		37.75	12.5	46	42	48.4	22	20	34.5	M12	16.1	16.3
BT40		44.45	17	63	59	65.4	27	25	45	M16	16.1	22.6
BT50		69.85	25	100	42	101.8	38	23.2	51	M24		35.4

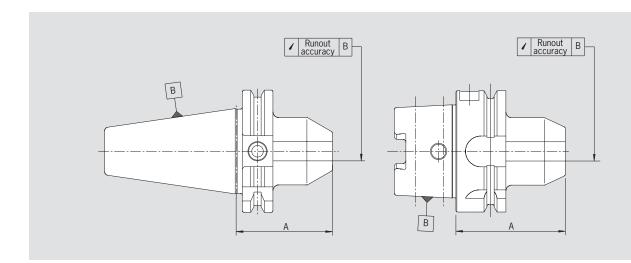
OVERVIEW OF TAPERS HSK



Maß/Length [mm]	D1	D2 max.	D3	L1	L2 min.	L3	L4	L5	G
HSK-A/E 25	25	20	19.006	13	10	10	2.5	6.05	M8x1
HSK-A/E 32	32	26	24.007	16	15	20	3.2	7.05	M10x1
HSK-A/E 40	40	34	30.007	20	15	20	4	8.05	M12x1
HSK-A/E 50	50	42	38.009	25	16	26	5	10.54	M16x1
HSK-A/E 63	63	53	48.010	32	16	26	6.3	12.54	M18x1
HSK-A/E 80	80	68	60.012	40	16	26	8	16.04	M20x1.5
HSK-A/E 100	100	88	75.013	50	16	29	10	20.02	M24x1.5



METRIC	Taper Size [mm]	D1	D2 max.	D3	D4	L1	L2 min.	L3	L4	L5
HSK-F 63		63	53	36.9	38	51	16	26	11	5



INCH	Gage length A [inch]	A < 6.3	A >= 6.3
Shrink fit Chuck	runout	0.00008	0.00016
Collet Chuck Type ER	runout	0.00012	0.00016
HG Chuck	runout	see Catalogue	
Face Mill Holder	runout	0.00024	0.00024
Side Lock Chuck	runout	0.00012	0.00016

Balancing

Please see catalog page for pre-balanced quality grade per tape and style of holder. Please note that balance grade listed per holder is for the tool holder only. For best results, balance the whole assembly (tool holder, pull stud, collet, nut, cutting tool). Each element of the assembly can affect the overall balance of the tool. Please see the HAIMER "Tool Dynamic" Modular Balancing Machine catalog for more information or call HAIMER for a more detailed explanation.

OVERVIEW OF TAPERS HAIMER CAPTO™C6 ISO 26623

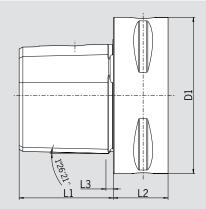
Compared to the steep taper the HAIMER CAPTO $^{\mathrm{TM}}$ has the following advantages:

- High repetition accuracy when clamping tools into spindle
- Fix axial positioning by flat contact surface
- Suitable for high speed cutting
- No pull stud necessary
- Interface with a unique tapered polygon and flange location face
- Exact positioning in the circumferential direction

- Highest runout accuracy, torque and rigidity
- Innovative modular tool system with highest precision
- Suitable for both turning and milling centres

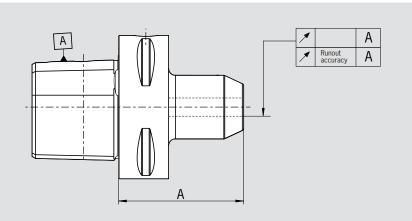
Material:

- Special case-hardening steel for highly stressed parts
- Surface hardness: 60-2 HRC
- Tensile strength in core min. 950 N/mm²



Length [mm]	D1	L1	L2	L3	
HAIMER CAPTO™ C6	63	38	22	3	

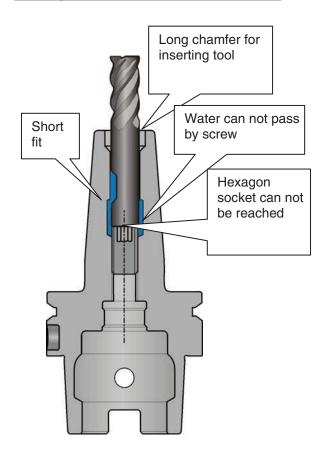
RUNOUT ACCURACY ISO 26623



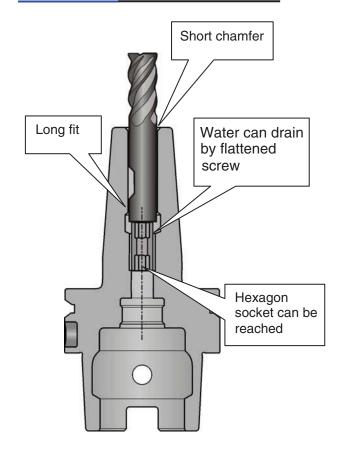
Gage length	A < 160	A ≥ 160
max. runout tolerance in mm		
Shrink fit chuck	0.003	0.004
Collet chuck ER	0.003	0.004
Weldon tool holder	0.003	0.004
Face mill arbor	0.006	0.006

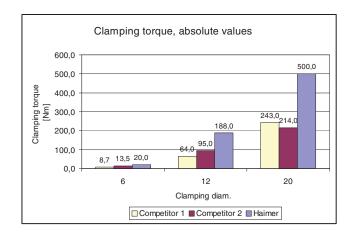
Shrink Fit Chucks Advantages

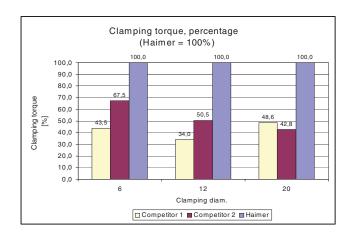
Competitors Shrink fit chuck



HAIMER ® Shrink fit chuck







Shrink Fit Chucks Advantages

Total quality control - all shrink chucks built by Haimer in house

Haimer is a true innovator – making shrink fit an even better solution for everyone

Shrinking of carbide and HSS tools from diameter. 3 to diameter. 50 mm (1/8" to 2") in tolerance h6

Even small clamping diameter. 3 – 5 mm (1/8", 3/16") suitable for HSS tools with shank tolerance h6

Highest clamping force due to extreme pressure on shank

- highest pull out force
- highest torque (see diagram)
- secure clamping even when tool shank is at lower range of tolerance
 - optimum security of process



Optimum support of tool

- short chamfer for inserting tool clamping up to the top (see sketch)
- long fit support of tool on whole length (see sketch)
- extreme rigidity
- long tool life
 - no movement of tool in tool holder



Patented security set screw (see sketch)

- no dangerous development of steam when heating due to total drainage of water
- precise length adjustment due to fine pitch thread (small clearance)
- hexagon socket on both ends
- simple removing of tool after breakage (on hexagon socket always can be reached)



Sarina Fit Machines

Gordan Fif Allegations of Carlotto Fif Allegations of Carl

Long life of tool holder

- high-temperature resistant special steel (tested more than 2000 times)
- no wearing of clamping bore due to high clamping forces and short chamfer
- no distortion due to special hardening method

For heavy-duty machining reinforced chucks type "S" – Super Chucks

Flexible tool length with shrink fit extensions - no more special tool holders

Optimum coolant supply by Cool Jet system (no interruption of the bore)

Balanced to G 2.5 at 25,000 rpm or under 1 gmm of unbalance (dependant upon taper)

Fine balancing with set screws possible

Several lengths on stock

Slender shape - "Mini-Shrink" available

Outer shape can be machined by user

Dimensions according to DIN 69882-8 - Inch and metric bore diameters standard

T. I. R. \leq 0,003 mm at 3 times diameter (0.00012")

Steep taper in tolerance AT 3, form ADB (coolant through center and through collar)

All DIN and HSK including data chip bore

CAT40 and CAT50 holders have ground pilot for pull-stud connection

CAT40 and CAT50 standard with DIN-B coolant delivery option

Demonstration Vehicle

Coming to your area

Let us bring our showroom to your facility



- Tool holders
- Shrink Fit machine
- Tool Holder Balancing Machine
- Balancing Evaluation Capabilities
- 3 Axis Edge Finders

Haimer manufacturing - Igenhausen, Germany



Haimer USA



USA Warehouse for same day shipping



USA Showroom and Training Facility



Printed in United States on $1\,00\%$ chlorine-free bleached paper \cdot

Decide on Quality.

Since 1977 we have produced ultra-precise tool holders and special machines designed for many industries. Products from Haimer are made of the highest quality, based on the most modern engineering and perfect construction. This follows our corporate philosophy: **Quality wins!**Visit our website: **www.haimer-usa.com** and see all that we can offer.



Made by Haimer: Tool Holders

- Highest precision at fair prices
- ASME B5.50 CAT 40/50
- DIN 69871 SK 30/40/50
- JIS B 6339 BT 30/40/BT50
- DIN 69893 HSK-A, HSK-E, HSK-F, HSK-C
- ISO 26623 Capto C6
- Shrink fit chucks, ER/HG collet chucks and face-mill arbors
- Shrink fit extensions
- Specials available upon request



Made by Haimer: Balancing Machines

- Modular balancing machine for tool holders, grinding wheels, and cutting tools
- Measuring in one or two planes
- Fast and easy handling



Made by Haimer: Shrink Fit Machines

- Inductive shrink fit machine for the shortest tool changes
- Tool change by just pressing a button
- For shrinking steel and carbide tools from diam. 3 to diam.
 50 mm



Made by Haimer: 3 Dimensional Edge Finders

- For centering bores and shafts
- Different versions available
- High measuring accuracy

To ensure fast service and smooth processing of purchase orders, please include your Haimer customer number with all orders and inquiries.



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