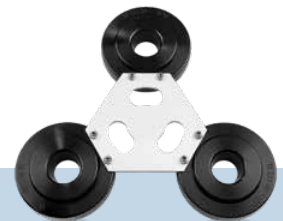


POWER CLAMP

Shrink Fit Technology



SHRINKING TECHNOLOGY

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HAIMER Power Clamp
Premium i4.0

See the HAIMER Power Clamp
Shrink Fit System in Action:



Top 10 Reasons to Use HAIMER Shrink Fit Technology

1

Unsurpassed machining accuracy

We guarantee < 0.00012" (3µm) run-out at 3xD.

This degree of accuracy is consistently repeatable for any number of operators from shift to shift.

2

Slim profiles – perfect for 5-axis machining

HAIMER Shrink Fit tool holders have very slim profiles.

They can also be modified to a straight-walled design if needed in order to prevent tool holder collision with the work piece.

3

Gripping torque

Our shrink fit chucks grip the cutting tool 360° around the shank on multiple planes, delivering very high gripping torque that prevents chatter during roughing or finishing operations.

4

Consistency of setup

A unique benefit of HAIMER shrink fit is that it eliminates any variation between tool changes.

Removing these variables means regardless of the operator and their experience level, you will get repeatable uniformity in tooling setup and equally consistent results.

5

Extended reach options

Shrink fit extensions provide many options. For example, when machining deep cavities, you can place shrink fit extensions into standard shrink fit chucks, getting unsurpassed gage lengths with minimal run-out.

6

Balance accuracy and repeatability

We hold our shrink fit holders to the highest balance accuracy standards (G2.5 @ 25,000 RPM).

Since shrink fit holders have no moving parts, it offers the best balance repeatability of any tool holding system on the market.

7

Reduction of tool changing time & less tool holder accessory inventory

Nothing beats the tool change time of our shrink fit chucks when combined with the HAIMER Power Clamp shrink fit machines. Tool changes can be done in less than 5 seconds.

8

Clean bores

Run-out accuracy is often compromised if contaminants are introduced to the bore of a tool holder during machining. A shrink fit chuck is a sealed system by design. This minimizes the introduction of contaminants.

9

Coolant options

Our shrink fit chucks are available with a variety of coolant options, including our Cool Jet and Cool Flash technology, which delivers coolant down to the cutting edge of the tool.

This helps clean out chips and can aid in providing better part finishes.

10

Availability

Bestseller machines are available and stocked locally.

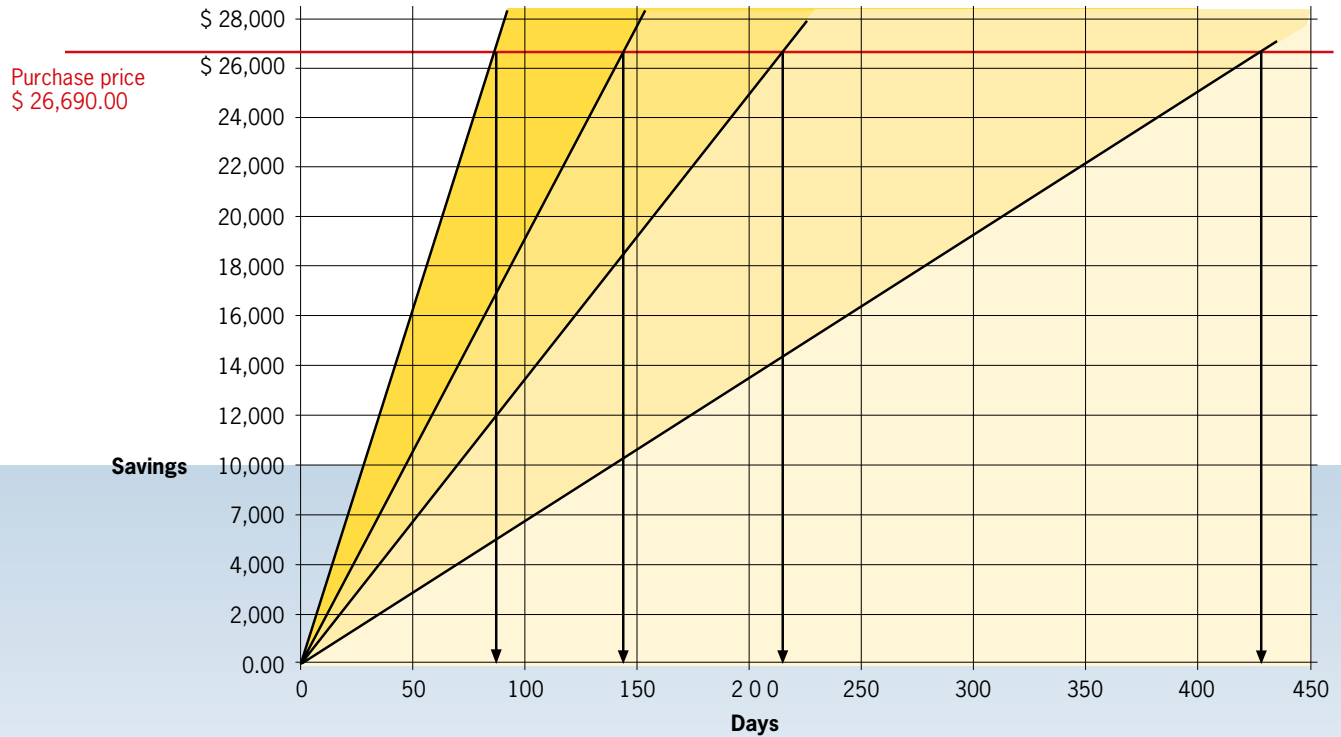
All other configurations and modifications are available per order within just a couple of weeks.

Shrink fit holders are available in stock in a wide variety of lengths in the most common spindle interfaces.

THE POWER CLAMP SYSTEM

Amortization HAIMER Power Clamp

The following diagram shows the amortization of the Power Clamp Comfort NG with Speed Cooler in relation to the number of shrink cycles per day.



Time Savings: 5 min. per cycle
Cost per Employee/Hour: \$50.00/h

50 jobs/day

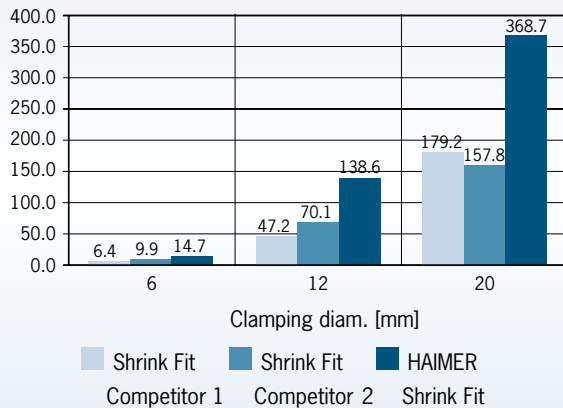
30 jobs/day

20 jobs/day

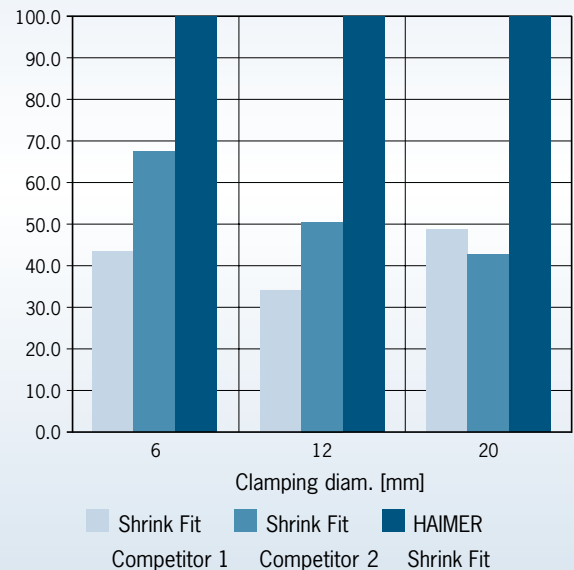
10 jobs/day

Gripping Torque Data:

Clamping torque, absolute values [ft/lb]



Clamping torque, percentage (HAIMER = 100%)



THE POWER CLAMP SYSTEM

The Contact Cooling

The patented cooling system from HAIMER is the quickest and cleanest method of cooling shrink fit chucks.

There is a suitable cooling body for every chuck.

The cooling body has full surface contact with the shrink fit chuck and extracts the heat smoothly. A water cycle cools the cooling body.

The cooling procedure takes place evenly and gently. There is no deformation of the chuck. The runout accuracy is preserved. The chucks do not come into contact with the water. They remain dry and do not rust. The work place also remains clean and dry.



Cooling body for rapid cooling

- Cooling in record time: approx. 30 sec.
- Tool holders remain dry
- No build-up of rust
- No time lost through drying process
- Even cooling, runout accuracy is maintained
- Hot points are always covered, no risk of injury
- Hot parts don't need to be touched
- Gentle handling of chuck, no shocking
- No heating of cooling body, even after lots of shrink fit procedures: heat is removed with contact cooling
- 5 cooling bodies for all standardized chucks
- No messy water = a clean work space

THE POWER CLAMP SYSTEM

The Coil Technology

The induction coil is the core of inductive shrink fit technology. HAIMER has been the leading developer of inductive shrink fit technology for tool holders for years. A number of patents, predominantly in the field of induction coils, is the visible proof of our innovation and advancement.

Power electronics

The second component of shrink fit technology is power electronics. It supplies the coil with power. Frequency and current must be exactly coordinated with one another to do this. Heating must take place within seconds, without overheating the chuck. A specially developed procedure

for power regulation makes sure this is the case, independent of the main voltage. HAIMER offers shrink fit equipment with an output of 10 to 20 kW.

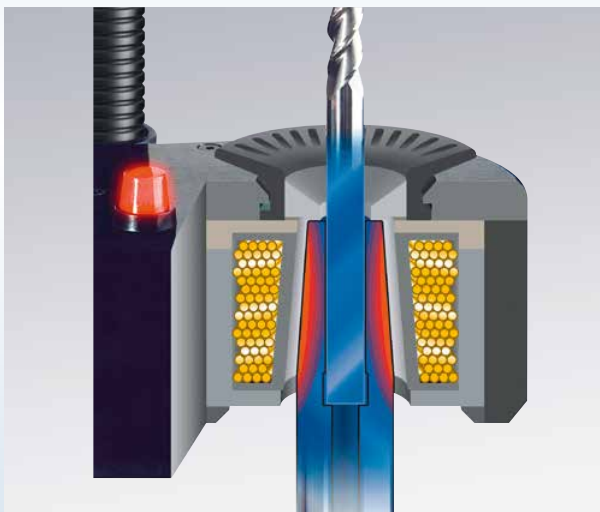
Operation

Equally decisive for the success of an investment is its acceptance among your employees. A machine, which is used happily and frequently, pays for itself within a short period of time. HAIMER shrink fit equipment can be equipped for any purpose and need. From a simple device with one shrink fit station and no cooling, up to fully equipped machines with rotary table, integrated contact cooling and system cart.



The standard coil

The standard coils have been proven for years with interchangeable stop disks. All shrink fit chucks with a diameter of 1/8" – 1 1/4" (3 to 32 mm) can be heated with a single coil. Just 5 stop disks are enough to adapt the coil to each chuck, from the smallest to the largest.



The standard coil

With over 20 years of experience in making inductive shrink fit machine coils, HAIMER has evolved our standard coil to be a very solid and efficient component on our machines. Through our intelligent control, the coil only activates the inductive zones that will most effectively heat up the shrink fit chuck in order to give long lasting tool holder life.

THE POWER CLAMP SYSTEM

The New Generation Coil Technology



The NG (New Generation) coils

The intelligent NG coils are particularly flexible, comfortable and adjustable. With one turn, you can set the coil to the size of the shrink fit chucks, both in length and diameter. Stop disks are no longer necessary. This means the chuck is only heated where it is intended, even with special sizes.

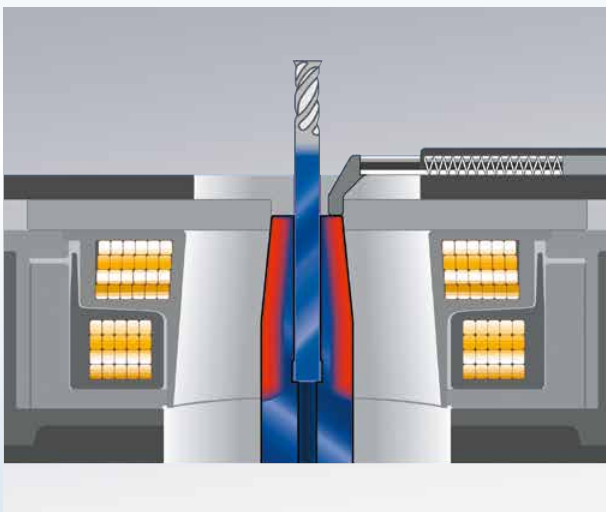


Picture shows motorized coil with auxiliary fume extraction unit

The motorized New Generation (NG) coil

For the most convenient and automated shrinking process the motorized NG coil on a HAIMER i4.0 shrink machine is highly recommended in conjunction with a hand scanner. The intelligent, motorized NG coil adjusts automatically to the correct tool diameter and length for heating up the tool holder / shrink fit collet with the right parameters. Just scan the tool holder or shrink fit collet's data-matrix code and the coil's motor starts to move the coil to the right position.

Place the motorized NG coil on the shrink fit chuck / collet and start inductive heating at the push of a button. This leads to a very smooth, consistent and operator independent shrinking process.



The NG Coils have two heating zones

In an effort to maximize the efficiency of the heating process, HAIMER has a revolutionary two heating zone design in their NG (New Generation) intelligent coils. This allows for even and efficient heating across the nose of the shrink fit chuck – leading to longer tool holder life. These coils also can adapt themselves to ultra-short shrink fit chucks easily and ultra-short shrink fit chucks can often provide a benefit in the machining process.

THE POWER CLAMP SYSTEM

Basic Line / Profi Line / i4.0 Line

HAIMER has the right shrink fit technology for any need. Take advantage of the largest range of shrink fit equipment and coils in the world.



Basic Line: Concentrating on the basics.

The Basic Line is the economical entrance into inductive shrink fit technology. The power electronics enables problem free shrinking. The mechanical construction of the equipment has been kept deliberately simple and functional. There are just single chuck solutions.

The Basic Line equipment is exclusively designed for operation with standard coils. It is not possible to upgrade.

The Basic Line is ideal for the price-conscious user, who only wants to shrink a few tools on a daily basis.

For micro machining purposes, the special horizontal shrink fit machine Power Clamp Nano is part of the program. It combines perfectly easy tool handling of small diameters and fast tool exchange.

THE POWER CLAMP SYSTEM



Profi Line: Modular Versatility.

The Profi Line offers the full range of performance and is unbeatable in efficiency. High performance coils, contact cooling and a rotary table guarantees simultaneous shrinking and cooling in record time. No wishes remain unfulfilled.

The machines of the Profi Line work with both the standard coils and the intelligent, comfortable NG coils. Of course, the equipment recognizes each coil and chooses the correct shrink fit parameters automatically.

The shrink fit machines of the Profi Line form a modular system. The start-up Power Clamp Economic machine can gradually be upgraded to the high-end Power Clamp Comfort NG.

i4.0 Line: Network-compatible and communicative.











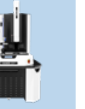
In addition to the well-known machines of the Basic and Profi line, the all-new Industry 4.0-ready and network-compatible series was developed with its Power Clamp Premium i4.0, Sprint i4.0, Preset i4.0, Air i4.0, Comfort i4.0 and Nano i4.0 models.

The machines are equipped with a workshop friendly 7" touch display and new intuitive software, which makes machine operation with or without gloves even easier. Upon request, the Power Clamp i4.0 devices can also be equipped with a hand-held scanner that is able to read the shrinking parameters of Data-Matrix codes. This way automated shrinking is easier than ever before.

The new and ergonomic shrinking stations have a modern and high-quality design. Due to their patented NG coil, they are suited for both solid carbide and HSS tools with diameters from 1/8" – 1 1/4" (3 to 32 mm).

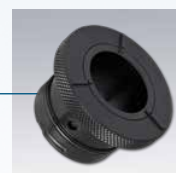
EQUIPMENT FEATURES

Symbol	Line Feature	Basic Line			Profi Line				
		Nano	Mini	Basic	Economic	Economic NG	Economic Plus	Economic Plus NG	Comfort
									
	Single chuck version	●	●	●	●	●	●	●	—
	Cooling and Shrinking simultaneously	—	—	—	○	○	○	○	●
	Rotary table	—	—	—	○	○	○	○	●
	Cooling	●	—	—	○	○	●	●	●
	Speed Cooler with Cooling Manager	—	—	—	○	○	●	●	●
	TME Cooling system	—	—	—	—	—	○	○	○
	Modular system	—	—	—	●	●	●	●	●
	Standard coil	—	●	●	●	○	●	○	●
	Variable NG coil	—	—	—	○	●	○	●	○
	Intelligent motor coil	—	—	—	○	○	○	○	○
	13 kW HD coil	—	—	—	○	○	○	○	○
	20 kW coil	—	—	—	—	—	—	—	—
	5 keys membrane keypad	●	●	●	●	●	●	●	●
	Industry 4.0 ready	—	—	—	—	—	—	—	—
	7" Touchscreen	—	—	—	—	—	—	—	—
	Hand-held scanner	—	—	—	—	—	—	—	—
	Length presetting	●	—	—	○*	○*	○*	○*	○*
	System cart	○	○	○	○	○	○	○	○
	Auxiliary fume extraction unit	—	○	○	○	○	○	○	○

				i4.0 Line						
Comfort NG	Profi Plus NG	Preset NG	Premium Plus	Nano NG i4.0	Air i4.0 Eco	Air i4.0 Comfort	Comfort i4.0	Preset i4.0	Premium i4.0	Sprint i4.0
										
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Power Clamp Nano

Horizontal shrink fit machine for small tools.



Air cooling

Cooling by compressed air, regardless of contour and safest handling for small tool holders



Stop disk



Chuck support for tool holders with bayonet clamping

Length presetting

Horizontal length presetting unit
Tolerance 0.05 mm

POWER CLAMP BASIC LINE

POWER CLAMP NANO

Power Clamp Nano

- Easy tool handling by horizontal shrinking
- With Power Clamp Nano air cooling
- With length presetting
- With calibration adapter
- Power: 13 kW
- Mains voltage: 3x400–480V, 16 A
- Tools: solid carbide and HSS from Ø 1/8" – 5/8" (3 – 16 mm)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Compressed Air	6 bar
– Tools	solid carbide and HSS
– Tool diameter	1/8" – 5/8" (3 – 16 mm)
– Maximum length of shrink fit chuck with tool	9" (230 mm)
– Dimensions WxDxH	28" x 24" x 25" (715 x 600 x 630 mm)
– Weight	165 lbs (75 kg)
– Order No.	PC106-I04-C20-US

Accessories

Order No.

– Chuck support for Power Clamp Nano	see page 57
– Cooling nozzle for Mini Shrink Ø3–12 mm	80.164.02
– Clips for tools for length presetting	
– Ø3 mm	80.166.03
– Ø4 mm	80.166.04
– Ø5 mm	80.166.05
– Ø6 mm	80.166.06
– Ø8 mm	80.166.08
– Ø10 mm	80.166.10
– Ø12 mm	80.166.12
– Set of clips incl. plate	80.166.00



Calibration adapter for length presetting

For resetting the measuring device



Clips for tools (optional)

For safest and precise handling of high quality carbide tools – especially with smaller diameters

Power Clamp Mini Power Clamp Basic

Entry-level shrink fit machine without cooling.



Power Clamp Mini

Power Clamp Basic

POWER CLAMP BASIC LINE

POWER CLAMP MINI

POWER CLAMP BASIC

Power Clamp Mini

- Power: 10 kW
- Mains voltage: 3 x 400–480 V, 16 A
- Tools: solid carbide and HSS from Ø 1/8" – 5/8" (3 – 16 mm)
- With 1 base holder
- With 1 chuck support

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 10 kW
– Tools	Solid carbide and HSS
– Tool diameter	1/8" – 5/8" (3 – 16 mm)
– Maximum total length	13.8" (350 mm)
– Dimensions WxDxH	25" x 35" x 24" (650 x 900 x 600 mm)
– Weight	99 lbs (45 kg)
– Order No.	PC104-I01-C00-EU

Power Clamp Basic

- Power: 10 kW
- Mains voltage: 3 x 400–480 V, 16 A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3 – 32 mm)
- With 1 base holder
- With 1 chuck support

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 10 kW
– Tools	Solid carbide and HSS
– Tool diameter	Ø 1/8" – 1 1/4" (3 – 32 mm)
– Maximum total length	13.8" (350 mm)
– Dimensions WxDxH	26" x 35" x 24" (650 x 900 x 600 mm)
– Weight	99 lbs (45 kg)
– Order No.	PC105-I01-C00-EU

Accessories

Order No.

- Chuck support for single-chuck system

See page 58

POWER CLAMP PROFI LINE

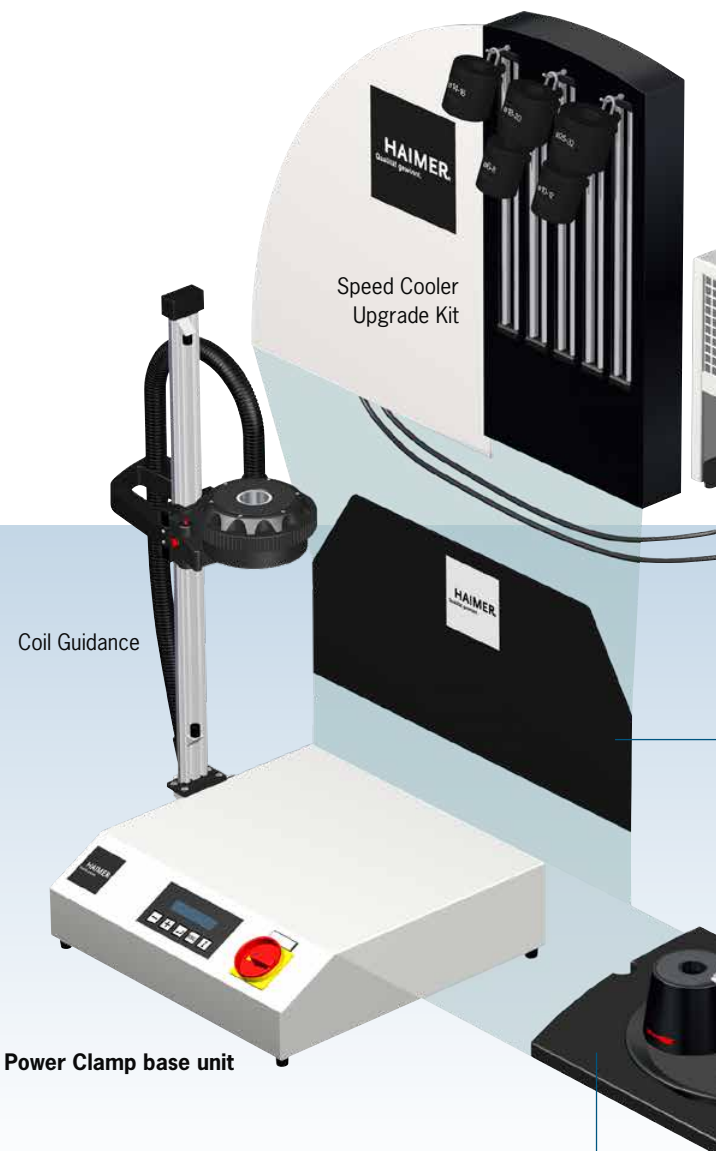
Power Clamp Profi Line: The modular system

Step by step more shrink fit technology

Basic unit can be combined with two rear walls and two base plates. The chuck support for the rotary table will be supplied as requested.

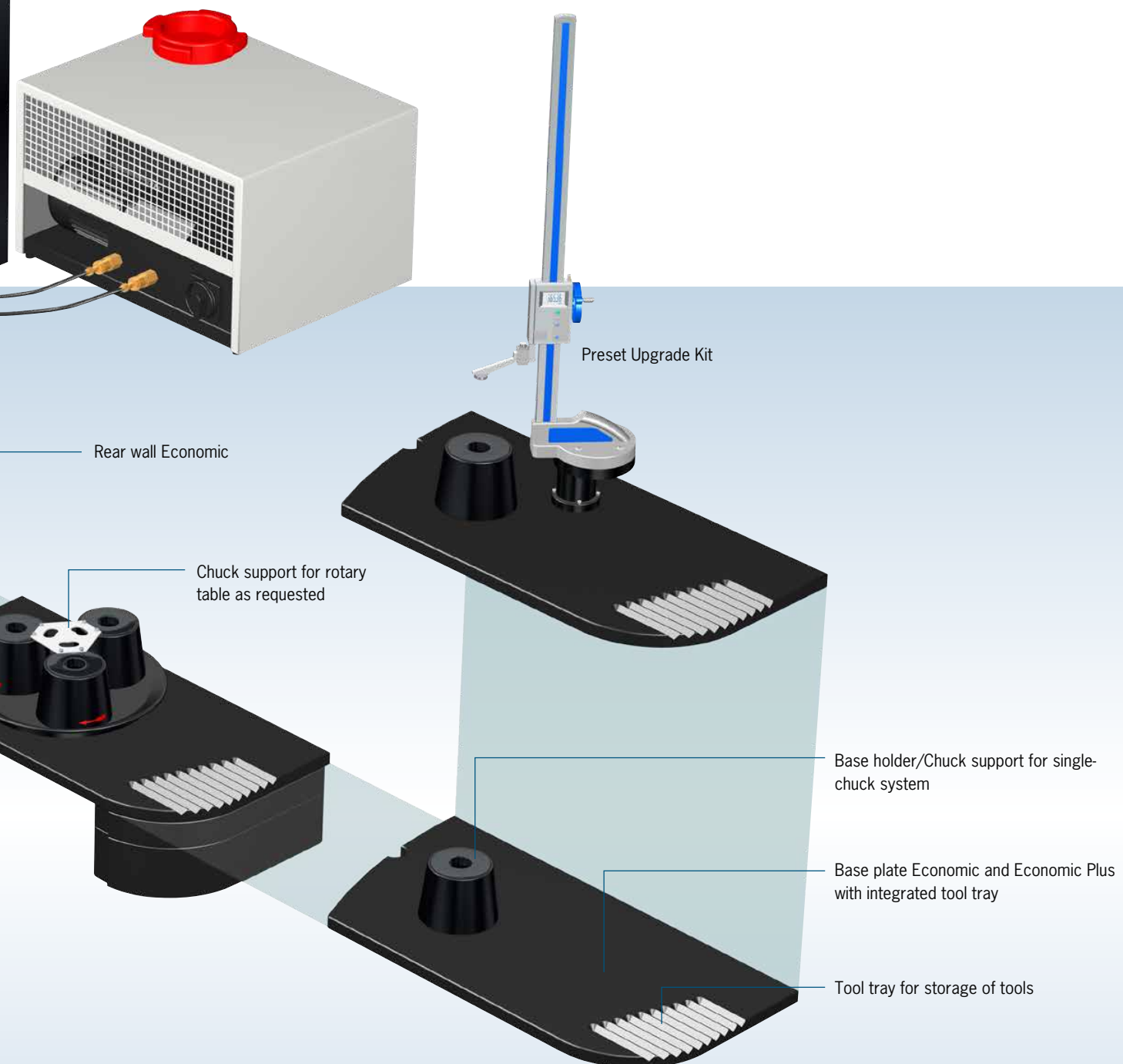
Accessories

- **Speed-Cooler Upgrade Kit: Expansion Plane 1**
Speed-Cooler with rear wall incl. 5 cooling bodies
Order No. 80.115.01
- **Rotary table Upgrade Kit: Expansion Plane 2 (= Power Clamp Comfort)**
Base plate with rotary table for 3 chucks
incl. craning boxes
(For a full Comfort machine, both expansion planes #1 and #2 are required)
Order No. 80.116.00
- **Preset Upgrade Kit**
Measuring plate, height gage,
2 precision base holders incl. craning boxes
Order No. 80.117.00



Base plate standard made of aluminum with rotary table,
integrated tool tray and craning boxes

POWER CLAMP PROFI LINE



Power Clamp Profi Line Program

Start with the essential, then upgrade as needed:

Keep an eye on the future.

An entrance into modern shrink fit technology: State-of-the-art coil technology at low costs. The question is not "Should I invest in shrink fit technology" but rather "When will I invest in shrink fit technology". It is now time to invest in the technology of the future.

Our modular system offers the ideal start-up solution.



Power Clamp Economic NG
without cooling, without rotary
table, with integrated tool tray

POWER CLAMP PROFI LINE

Technical details

– Basic unit Comfort	3x400–480 Volt, 16 A, 13 kW
– Maximum length of shrink fit chuck (longer chucks upon request)	20" (510 mm)
– Dimensions WxDxH	33" x 24" x 38" (840 x 600 x 970 mm)
– Weight	154 lbs (70 kg)
– Speed-Cooler unit	115 Volt/60 Hz, 1 kW
– Dimensions WxDxH	22" x 18" x 16" (565 x 450 x 400 mm)
– Weight	99 lbs (45 kg)



Power Clamp Economic Plus NG

with cooling, without rotary table, incl. 1 base holder and 1 chuck support, with integrated tool tray



Power Clamp Comfort NG

with cooling, rotary table, 1 chuck support, integrated tool tray and craning boxes



Power Clamp Profi Plus NG

High powered shrink fit machine

- Heating power 20 kW
- For shrinking of tools from Ø 1/8" – 2" (3 – 50 mm)
- For HSS- and solid carbide tools
- Big coil for Ø 1 1/2" – 2" (40 – 50 mm) optional
- Incl. rotary table and chuck support
- Incl. tool tray
- With craning boxes for accessories

Power Clamp Profi Line

HAIMER Power Clamp New Generation

- 1 Single hand operation**
- Positioning of coil and starting of shrink process with one hand

- 2 Cooling bodies for rapid cooling**
- Chucks remain dry
 - No rust
 - Hot spots always covered, no danger of injury
 - Hot parts don't need to be touched

- 3 The turning table**
- Work fast and efficiently
 - Heating and cooling at the same time on 3 stations
 - No idle periods



Chuck support

- 4 Chuck support for 3 chucks**
- For all actual tapers
 - Different taper combinations possible

- 5 The tool tray**
- For laying down cutting tools
 - Integrated in base plate

- 8 The system cart**
- For a clearly arranged and ergonomic work place



Picture shows Power Clamp Comfort NG with accessories and system cart

- 6 The craning boxes**
- For accessories
 - Everything close at hand

- 7 The display**
- User-friendly operating panel
 - Clear, compact and easy to handle

- 9 The drawer**
- Profiled inserts for accessories
 - Everything in its place

POWER CLAMP PROFI LINE HAIMER POWER CLAMP NEW GENERATION



Safe, dry, fast cooling

- Efficient: Shrink one holder while cooling another
- Water-cooled cooling bodies
- Concentrated cooling efficiency due to contact cooling
- Even cooling: No material deformation

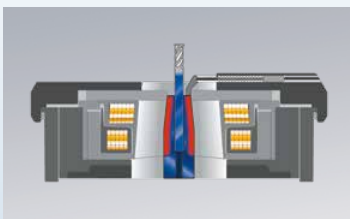
Intelligent patented coil technology:

The coil adjusts itself to the chuck in length and diameter. Therefore only the shrinking area of the chuck will be warmed – nothing else. Shrinking and cooling will be much faster.

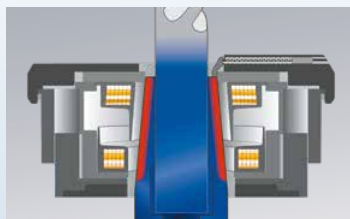


More efficiency, more flexibility, easier handling.

- Coil adjusts itself to the chuck
- Perfect magnetic flow due to length adjustment of the coil
- Optimal heat distribution due to length adjustment of the coil
- Lower chuck warming
- Shorter shrinking time
- Shorter cooling time
- Simple operation
- Contact disks are no longer necessary
- Suitable for T-shaped groove milling cutters
- Suitable for ultra-short chucks
- Suitable for special shape



Small tool



Big tool

Power Clamp Economic/ Power Clamp Economic NG

Profi Line entry-level shrink fit machine without cooling.



Power Clamp Economic

Power Clamp Economic NG

POWER CLAMP PROFI LINE
POWER CLAMP ECONOMIC
POWER CLAMP ECONOMIC NG

Power Clamp Economic

- With standard coil
- Single chuck version
- Without cooling
- With 1 base holder
- With 1 chuck support
- Power: 13 kW
- Mains voltage: 3x400–480V, 16A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3 – 32 mm)

Power Clamp Economic NG

- With intelligent NG coil
- Single chuck version
- Without cooling
- With 1 base holder
- With 1 chuck support
- Power: 13 kW
- Mains voltage: 3x400–480V, 16A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3 – 32 mm)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Tools	Solid carbide and HSS
– Tool diameter	Ø 1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck	Economic: 20" (510 mm)/Economic NG: 22" (570 mm)
– Dimensions WxDxH	33" x 24" x 38" (840 x 600 x 970 mm)
– Weight	132 lbs (60 kg)
– Power Clamp Economic Order No.	PC101-I01-C00-EU
– Power Clamp Economic NG Order No.	PC101-I21-C00-EU

Accessories

Order No.

– Craning boxes	80.134.00NG
– Chuck support for single-chuck system	See page 58

Power Clamp Economic Plus/ Power Clamp Economic Plus NG

Advanced Profi Line shrink fit machine with cooling.



Power Clamp Economic Plus



Power Clamp Economic Plus NG

POWER CLAMP PROFI LINE

POWER CLAMP ECONOMIC PLUS

POWER CLAMP ECONOMIC PLUS NG

Power Clamp Economic Plus

- With standard coil
- Single chuck version
- With integrated contact cooling
- With 1 base holder
- With 1 chuck support
- Incl. Cooling Manager
- Power: 13 kW
- Mains voltage: 3x400–480V, 16 A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3 – 32 mm)

Power Clamp Economic Plus NG

Upgrade possible with HD coil for shrinking of Heavy Duty Shrink
Chucks up to Ø 50 mm (optional)

- With intelligent NG coil
- Single chuck version
- With integrated contact cooling
- With 1 base holder
- With 1 chuck support
- Incl. Cooling Manager
- Power: 13 kW
- Mains voltage: 3x400–480V, 16 A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3 – 32 mm)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Tools	Solid carbide and HSS
– Tool diameter	Ø 1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck	Economic Plus: 20" (510 mm)/Economic Plus NG: 22" (570 mm)
– Dimensions WxDxH	33" x 24" x 38" (840 x 600 x 970 mm)
– Weight	243 lbs (110 kg)
– Power Clamp Economic Plus Order No.	PC102-I01-C10-US
– Power Clamp Economic Plus NG Order No.	PC102-I21-C10-US

Accessories

	Order No.
– Craning boxes	80.134.00NG
– Chuck support for single-chuck system	See page 58
– Upgrade Kit 13 kW HD coil for Economic Plus NG	80.151.30.10

Power Clamp Comfort/ Power Clamp Comfort NG

Profi Line high performance shrink fit machine for the ambitious with 3 stations and cooling.



Power Clamp Comfort



Power Clamp Comfort NG

POWER CLAMP PROFI LINE

POWER CLAMP COMFORT

POWER CLAMP COMFORT NG

Power Clamp Comfort

- With standard coil
- Rotary table with 3 stations
- With integrated contact cooling
- Incl. Cooling Manager
- With 1 chuck support for rotary table
- Power: 13 kW
- Mains voltage: 3x400–480V, 16A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3 – 32 mm)

Power Clamp Comfort NG

Upgrade possible with HD coil for shrinking of Heavy Duty
Shrink Chucks up to Ø 50 mm (optional)

- With intelligent NG coil
- Rotary table with 3 stations
- With integrated contact cooling
- Incl. Cooling Manager
- With 1 chuck support for rotary table
- With craning boxes
- Power: 13 kW
- Mains voltage: 3x400–480V, 16A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3 – 32 mm)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Tools	Solid carbide and HSS
– Tool diameter	Ø 1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck	Power Clamp Comfort: 20" (510 mm)/Comfort NG: 22" (570 mm)
– Dimensions WxDxH	33" x 24" x 38" (840 x 600 x 970 mm)
– Weight	254 lbs (115 kg)
– Power Clamp Comfort Order No.	PC100-I01-C10-US
– Power Clamp Comfort NG Order No.	PC100-I21-C10-US

Accessories

	Order No.
– Chuck support for rotary table	See page 61
– Craning boxes for Power Clamp Comfort	80.134.00NG
– Upgrade Kit 13 kW HD coil for Power Clamp Comfort NG	80.151.30.10

Power Clamp Profi Plus NG

High performance shrink fit machine for professionals up to Ø 2" (50 mm) and with cooling.



POWER CLAMP PROFI LINE POWER CLAMP PROFI PLUS NG

Power Clamp Profi Plus NG

- With intelligent NG coil
- Rotary table with 3 stations
- With integrated contact cooling
- Incl. Cooling Manager
- Second coil for Ø 1 ½" – 2" (40 – 50mm)
- With 1 chuck support for rotary table
- Power: 20 kW
- Mains voltage: 3x400–480V, 32A
- Tools: solid carbide and HSS from Ø 1/8" – 2" (3 – 50 mm)

Technical details

– Mains voltage	3x400–480 Volt, 32 Ampere, 20 kW
– Tools	Solid carbide and HSS
– Tool diameter	Ø 1/8" – 2" (3 – 50 mm)
– Maximum length of shrink fit chuck	22" (570 mm)
– Dimensions WxDxH	39" x 24" x 38" (1000 x 600 x 970 mm)
– Weight	282 lbs (128 kg)
– Power Clamp Profi Plus NG Order No.	PC120-I21-C10-US

Accessories

Order No.

– Chuck support for rotary table	See page 61
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Power Clamp Preset NG

High performance shrink fit machine for professionals with length presetting and cooling.



POWER CLAMP PROFI LINE

POWER CLAMP PRESET NG

Power Clamp Preset NG

Upgrade possible with HD coil for shrinking of Heavy Duty Shrink Chucks up to Ø 2" (50mm) (optional)

- With vertical stop for length presetting
- With intelligent NG coil
- Single chuck version
- With integrated contact cooling
- Incl. Cooling Manager
- With 2 precision base holders
- With 2 precision chuck supports
- Power: 13 kW
- Mains voltage: 3x400–480V, 16A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3 – 32 mm)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Tools	Solid carbide and HSS
– Tool diameter	Ø 1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck	22" (570 mm)
– Dimensions WxDxH	33" x 24" x 43" (840 x 600 x 1110 mm)
– Weight	243 lbs (110 kg)
– Power Clamp Preset NG Order No.	PC103-I21-C10-US

Accessories

Order No.

– Precision chuck support	See page 59
– Upgrade Kit 13 kW HD coil	80.151.30.10

Power Clamp Premium Plus

High-end shrink fit machine for absolute process reliability.



POWER CLAMP PROFI LINE POWER CLAMP PREMIUM PLUS

High-end shrink fit machine with two separate electronic units and two coils

- Power: 33kW
- Mains voltage: 3x400V, 63A
- Tools: solid carbide and HSS from Ø 1/8" – 2" (3 – 50 mm)
- With intelligent coil VS32m and 20kW coil
- TME Intelligent Cooling System with temperature control
- Automatic move-up of the cooling bodies after the termination of the cooling process (temperature-time controlled)
- Integrated contact cooling with six cooling bodies
- Linear guided cooling bodies
- No damage at the edges of the cutting tool
- Incl. Cooling Manager
- Two length presetting units with height stop
- Incl. 2 precision base holders and 2 precision chuck supports
- 3 integrated drawers

Technical details

– Mains voltage	3x400Volt, 63Ampere, 33kW
– Compressed Air	87 psi (6 bar)
– Tools	Solid carbide and HSS
– Tool diameter	Ø 1/8" – 2" (3 – 50 mm)
– Maximum length of shrink fit chuck	21" (535 mm)
– Dimensions WxDxH	63" x 35" x 91" (1601 x 890 x 2300 mm)
– Weight	1,676 lbs (760 kg)
– Power Clamp Premium Plus Order No.	PC107-I41-I03-C11-EU

Accessories

Order No.

– Precision chuck support	See page 60
– Precision base holder for chuck support	80.131.01



Power Clamp Nano NG i4.0



Power Clamp Air i4.0 Eco/Comfort



Power Clamp Comfort i4.0



Power Clamp Preset i4.0

POWER CLAMP i4.0 Line: Shrinking Technology Industry 4.0-ready

With the new Power Clamp i4.0 series, HAIMER is setting new standards regarding digital connectivity and communication of tools and machines in the world of manufacturing.



Power Clamp Premium i4.0



Power Clamp Sprint i4.0

POWER CLAMP i4.0 LINE

Power Clamp i4.0 Line Highlights

With the new Power Clamp i4.0 series, HAIMER is setting new standards regarding digital connectivity and communication between tools and machines in the world of manufacturing.

All Power Clamp i4.0 shrink fit machines are equipped with the following features:

- 7" Touch-Display and new intuitive software for simplified usability
- Network-compatible and Industry 4.0-ready for communication on the shopfloor
- Scanner to readout shrinking parameters from Data-Matrix codes (optional)
- Patented NG-coil for tool diameters from Ø 1/8" – 1 1/4" (3 – 32 mm)



Touch-Display

- 7" Touch-Display and new intuitive software
- User-friendly Interface
- Illustrated functions
- Clear symbols, large font
- Robust color display
- Water, scratch and impact resistant



Hand-held scanner

Scanner to readout shrinking parameters from Data-Matrix codes for easiest automatic shrinking (optional)

POWER CLAMP i4.0 LINE

Cooling i4.0



POWER CLAMP PREMIUM i4.0

Contact cooling with signaling of the right cooling station

- Cooling body for rapid cooling
- Automatic signaling of the right cooling station for easy, fast and safe cooling
- Cooling in record time: approx. 30 sec.
- Tool holders remain dry, no build-up of rust
- Gentle handling of chuck by even cooling; runout accuracy is maintained
- Hot points are always covered, no risk of injury

POWER CLAMP SPRINT i4.0

Cooling regardless of the outside contour

- One size fits all – cooling for all kinds of cutting tools, no more selecting of cooling bodies
- Safe, smooth and clean cooling without dirt and water residue
- Intelligent cooling system with temperature control

Power Clamp Nano NG i4.0

Horizontal i4.0 shrink fit machine for tool holders and shrink fit collets.



Clips for tools (optional)
For safest and precise handling of high quality carbide tools – especially with smaller diameters



Calibration adapter for length presetting
For resetting the measuring device

POWER CLAMP i4.0 LINE

POWER CLAMP NANO NG i4.0

Power Clamp Nano NG i4.0 is especially suitable for small tool holders in high frequency spindles, for shrink fit collets and for shrink fit chucks up to CAT40/HSK-A63.

- Easy tool handling by horizontal shrinking
- With intelligent motor coil
- With scanner to readout shrinking parameters from tool holders (Data-Matrix code)
- With air cooling for tools up to outer diam. 1 ¼" (32 mm)
- With length presetting
- With calibration adapter
- With 7" Touch-Display and new intuitive software
- Industry 4.0-ready due to scanner connection
- With 1 chuck support
- Power: 13 kW
- Mains voltage: 3x400–480V, 16 A
- Tools: solid carbide and HSS from Ø 1/8"–1 ¼" (3–32 mm)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Compressed Air	58 psi (4 bar)
– Tools	solid carbide and HSS
– Tool diameter	1/8" – 1 ¼" (3 – 32 mm)
– Maximum length of shrink fit chuck with tool	9.8" (250 mm)
– Dimensions WxDxH	31" x 34" x 26" (800 x 860 x 670 mm)
– Weight	209 lbs (94 kg)
– Power Clamp Nano NG i4.0 Order No.	PC406-I42-C20-US

Accessories

Order No.

– Chuck support for Power Clamp Nano NG i4.0	see page 57
– Set of clips incl. plate	80.166.00
– System Cart	80.124.00.4
– Insert for System Cart	80.124.07

Application example



Shrink Fit Collets

Power Clamp Nano NG i4.0 is perfectly suitable for process reliable shrinking and cooling of shrink fit collets. See Master Catalog to find the shrink fit collet program.

Power Clamp Air i4.0 Eco

Economic i4.0 shrink fit machine for tool holders and shrink fit collets.



POWER CLAMP i4.0 LINE

POWER CLAMP AIR i4.0 ECO

Power Clamp Air i4.0 Eco is a high performance shrink fit machine with integrated cooling for all tools (solid carbide and HSS).

It is perfectly suitable for process reliable shrinking and cooling of shrink fit collets and tool holders.

Smooth and clean cooling of all kinds of tool holders by air – without dirt and water residue.

- Contour independent air cooling with temperature control
- Pneumatic brake of cooling hood with release-by-touch
- Cooling process finishes automatically
- With 7" Touch-Display and new intuitive software
- Industry 4.0-ready due to scanner connection
- With intelligent NG coil
- Single chuck version
- With 2 precision base holders and 2 precision chuck supports
- With craning boxes
- Incl. Cooling Manager

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Compressed Air	58 psi (4 bar)
– Tools	Solid carbide and HSS
– Tool diameter	1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck (shrinking)	22" (570 mm)
– Maximum length of shrink fit chuck (cooling)	10" (260 mm)
– Dimensions WxDxH	35" x 30" x 43" (880 x 750 x 1100 mm)
– Weight	231 lbs (105 kg)
– Power Clamp Air i4.0 Eco Order No.	PC409-I21-C21-US

Accessories

Order No.

– Scanner to readout shrinking parameters from Data-Matrix codes	80.185.01
– Precision chuck support	See page 59
– Length presetting	80.188.40
– Intelligent motor coil	80.101.03NG
– Auxiliary Fume Extraction Unit	80.101.02NG.01
– System Cart	80.124.00.4
– Insert for System Cart	80.124.06

Application example



Shrink Fit Collets

Power Clamp Air i4.0 Eco is perfectly suitable for process reliable shrinking and cooling of shrink fit collets. See Master Catalog to find the shrink fit collet program.

Power Clamp Air i4.0 Comfort

Comfort i4.0 shrink fit machine for tool holders and shrink fit collets.



Picture shows 80.180.41NG.3 with length presetting (optional)

POWER CLAMP i4.0 LINE

POWER CLAMP AIR i4.0 COMFORT

Power Clamp Air i4.0 Comfort is a high performance shrink fit machine with integrated cooling for all tools (solid carbide and HSS).

It is perfectly suitable for process reliable shrinking and cooling of shrink fit collets and tool holders.

Smooth and clean cooling of all kinds of tool holders by air – without dirt and water residue.

- Contour independent air cooling with temperature control
- Pneumatic brake of cooling hood with release-by-touch
- Cooling process finishes automatically
- With 7" Touch-Display and new intuitive software
- Industry 4.0-ready due to scanner connection
- With scanner to readout shrinking parameters from tool holders (Data-Matrix code)
- With intelligent motor coil
- Single chuck version
- With 2 precision base holders and 2 precision chuck supports
- With craning boxes
- Incl. Cooling Manager

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Compressed Air	58 psi (4 bar)
– Tools	Solid carbide and HSS
– Tool diameter	1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck (shrinking)	22" (570 mm)
– Maximum length of shrink fit chuck (cooling)	10" (260 mm)
– Dimensions WxDxH	35" x 30" x 43" (880 x 750 x 1100 mm)
– Weight	231 lbs (105 kg)
– Power Clamp Air i4.0 Comfort Order No.	PC409-I41-C21-US

Accessories

	Order No.
– Length presetting	80.188.40
– Precision chuck support	See page 59
– Auxiliary Fume Extraction Unit	80.101.02NG.01
– System Cart	80.124.00.4
– Insert for System Cart	80.124.06

Application example



Shrink Fit Collets

Power Clamp Air i4.0 Comfort is perfectly suitable for process reliable shrinking and cooling of shrink fit collets. See Master Catalog to find the shrink fit collet program.

Power Clamp Comfort i4.0

i4.0 shrink fit machine for the ambitious.



POWER CLAMP i4.0 LINE

POWER CLAMP COMFORT i4.0

With the new Power Clamp i4.0 series, HAIMER is setting new standards regarding digital connectivity and communication in the world of shrink technology.

A 7" Touch-Display and new intuitive software provide simplified usability.

Upgrade possible with HD coil for shrinking of Heavy Duty Shrink Chucks up to Ø 50 mm (optional)

- Industry 4.0-ready due to scanner connection
- With 7" Touch-Display and new intuitive software
- With intelligent NG coil
- Rotary table with 3 stations
- With integrated contact cooling
- Incl. Cooling Manager
- With 1 chuck support for rotary table
- With craning boxes
- Power: 13 kW
- Mains voltage: 3x400–480V, 16 A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3–32 mm)
- Scanner to readout shrinking parameters from tool holders (Data-Matrix code) (optional)
- TME Cooling System (optional)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Tools	Solid carbide and HSS
– Tool diameter	1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck	22" (570 mm)
– Dimensions WxDxH	33" x 26" x 38" (850 x 660 x 970 mm)
– Weight	254 lbs (115 kg)
– Power Clamp Comfort i4.0 Order No.	PC400-I21-C10-US

Accessories

Order No.

– Scanner to readout shrinking parameters from Data-Matrix codes	80.185.01
– Chuck support for rotary table	See page 61
– Upgrade Kit 13 kW HD coil for Power Clamp Comfort i4.0	80.151.30.10
– Auxiliary Fume Extraction Unit	80.101.02NG.01
– System Cart	80.124.00.4
– TME Cooling System for 13 kW machines (optional)	80.105.19.01

Power Clamp Preset i4.0

i4.0 shrink fit machine for the ambitious with length presetting.



POWER CLAMP i4.0 LINE

POWER CLAMP PRESET i4.0

With the new Power Clamp i4.0 series, HAIMER is setting new standards regarding digital connectivity and communication in the world of shrink technology.

A 7" Touch-Display and new intuitive software provide simplified usability.

Upgrade possible with HD coil for shrinking of Heavy Duty Shrink Chucks up to Ø 50 mm (optional)

- Industry 4.0-ready due to scanner connection
- With 7" Touch-Display and new intuitive software
- With vertical stop for length presetting
- With intelligent NG coil
- Single chuck version
- With integrated contact cooling
- Incl. Cooling Manager
- With 2 precision base holders and 2 precision chuck supports
- With craning boxes
- Power: 13 kW
- Mains voltage: 3x400–480V, 16 A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3–32 mm)
- Scanner to readout shrinking parameters from tool holders (Data-Matrix code) (optional)
- TME Cooling System (optional)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Tools	Solid carbide and HSS
– Tool diameter	1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck	22" (570 mm)
– Dimensions WxDxH	34" x 26" x 38" (860 x 660 x 970 mm)
– Weight	254 lbs (115 kg)
– Power Clamp Preset i4.0 Order No.	PC403-I21-C10-US

Accessories

	Order No.
– Scanner to readout shrinking parameters from Data-Matrix codes	80.185.01
– Precision chuck support	See page 59
– Precision base holder for chuck support	80.131.01
– Upgrade Kit 13 kW HD coil for Power Clamp Preset i4.0	80.151.30.10
– Auxiliary Fume Extraction Unit	80.101.02NG.01
– System Cart	80.124.00.4
– TME Cooling System for 13 kW machines (optional)	80.105.19.01

Power Clamp Premium i4.0

Ergonomic i4.0 high-end shrink station.



Picture shows 80.180.01NG with length presetting and scanner (optional)

POWER CLAMP i4.0 LINE

POWER CLAMP PREMIUM i4.0

Ergonomic high-end shrink station in new, premium quality industrial design with integrated contact cooling for all cutting tools (solid carbide and HSS) and for perfect handling and simultaneous cool-down at max. five cooling stations.

- With 7" Touch-Display and new intuitive software
- Industry 4.0-ready due to scanner connection
- Power: 13 kW
- Mains voltage: 3x400–480V, 16A
- Tools: solid carbide and HSS from Ø 1/8" – 1 1/4" (3–32 mm)
- With intelligent NG coil
- TME Intelligent Cooling System with temperature control
- Integrated contact cooling with five cooling bodies
- Linear guided cooling bodies with automatic signaling of the right cooling station for easy, fast and safe cooling
- No damage at the edges of the cutting tool
- Incl. Speed Cooler and Cooling Manager
- Incl. 2 precision base holders and 2 precision chuck supports
- Integrated drawer in base cabinet
- Scanner to readout shrinking parameters from tool holders (Data-Matrix code) (optional)
- Length presetting (optional)

Technical details

– Mains voltage	3x400–480V, 16Ampere, 13kW
– Tools	Solid carbide and HSS
– Tool diameter	1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck	21" (535 mm)
– Dimensions WxDxH	53" x 36" x 71" (1340 x 914 x 1816 mm)
– Weight	1,179 lbs / (535 kg) incl. base cabinet
– Power Clamp Premium i4.0 Order No.	PC407-I22-C11-US

Accessories

	Order No.
– Scanner to readout shrinking parameters from Data-Matrix codes	80.185.00
– Intelligent motor coil for Power Clamp Premium i4.0	80.101.03S
– Precision chuck support	See page 59
– Precision base holder for chuck support	80.131.01
– Length presetting	80.188.00
– Auxiliary Fume Extraction Unit	80.101.02NG.03

Power Clamp Sprint i4.0

Ergonomic i4.0 shrink station for cooling all geometries.



Picture shows 80.180.21NG with length presetting and scanner (optional)

POWER CLAMP i4.0 LINE POWER CLAMP SPRINT i4.0

Ergonomic shrink station in new, premium quality industry design with integrated cooling for all kinds of cutting tools (solid carbide and HSS) and shrink fit collets in record time.

- With 7" Touch-Display and new intuitive software
- Industry 4.0-ready due to scanner connection
- With intelligent NG coil
- Smooth and clean cooling of all kinds of shrink fit chucks and shrink fit collets regardless of the outside contour by air nozzles and drizzle – without dirt and water residue
- Temperature control for optimized and safe cooling
- No damage at the edges of the cutting tool
- Incl. 2 precision base holders and 2 precision chuck supports
- Integrated drawer in base cabinet
- Scanner to readout shrinking parameters from tool holders (Data-Matrix code) (optional)
- Length presetting (optional)

Technical details

– Mains voltage	3x400–480 Volt, 16 Ampere, 13 kW
– Compressed Air	87 psi (6 bar)
– Tools	Solid carbide and HSS
– Tool diameter	1/8" – 1 1/4" (3 – 32 mm)
– Maximum length of shrink fit chuck	21" (535 mm)
– Dimensions WxDxH	53" x 38" x 101" (1340 x 962 x 2560 mm) (max. work height) 53" x 38" x 77" (1340 x 962 x 1960 mm) (transportation height)
– Weight	1,213 lbs (550 kg) incl. base cabinet
– Power Clamp Sprint i4.0 Order No.	PC408-I22-C21-US

Accessories

Order No.

– Scanner to readout shrinking parameters from Data-Matrix codes	80.185.00
– Intelligent motor coil for Power Clamp Sprint i4.0	80.101.03S
– Precision chuck support	See page 59
– Precision base holder for chuck support	80.131.01
– Length presetting	80.188.00
– Auxiliary Fume Extraction Unit	80.101.02NG.03

Application example



Shrink Fit Collets

Power Clamp Sprint i4.0 is perfectly suitable for process reliable shrinking and cooling of shrink fit collets. See Master Catalog to find the shrink fit collet program.

CARTS AND INSERTS

Accessories



Drawer insert for system cart

(Accessories not included)

Technical details

– Drawer Order No.	80.124.04
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System cart

- Cart for shrinking machine and accessories
- For a clear and tidy work space
- Ergonomic work height
- Everything at hand
- Optional: Drawers with inserts to store accessories

Technical details

– System cart	
Dimensions	1000x620x840 mm
Order No.	80.124.00.4



Cart for shrink fit machine

Technical details

– Cart Order No.	80.106.00.3
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BASE HOLDER



To hold chuck supports of all sizes.
Available in two versions:

**Base holder for Power Clamp Basic/Economic/
Economic Plus**



**Precision base holder for Power Clamp Preset/
Premium Plus/Preset i4.0/Premium i4.0/Sprint i4.0**

High precision version with fine machined functional
surfaces for maximum precision at length presetting.

	Order No.
– Base holder for Power Clamp Basic/Economic/Economic Plus	80.155.01
– Precision base holder for Power Clamp Preset/Premium Plus/ Preset i4.0/Premium i4.0/Sprint i4.0	80.131.01

BASE HOLDER



Precision base holder for HAIMER ER shrink fit collets.

High precision version with fine machined functional surfaces for maximum precision at length presetting. Open base design for optimal access to adjust the length.

Precision base holder for HAIMER ER shrink fit collets

	Order No.
– Precision base holder for HAIMER ER shrink fit collets	80.131.02

CHUCK SUPPORT FOR POWER CLAMP NANO



**Chuck support for horizontal shrink fit machine
Power Clamp Nano.**

Available in taper sizes SK30 – SK40, CAT30 – CAT50,
BT30 – BT40, JBS T15, HSK-25 – HSK-63, PSC 40 – PSC 63

Precision chuck support for Power Clamp Nano/Nano NG i4.0

For taper size	Order No.
– BT30/CAT30 (also for version with Face Contact) with pull stud DIN69872/MAS40	80.162.30
– BT30/SK30 (also for version with Face Contact) without pull stud with thread M12	80.162.30.01
– BT40/SK40 (also for version with Face Contact) without pull stud with thread M16	80.162.40.01
– CAT40 (also for version with Face Contact) with pull stud DIN 69872	80.162.40.02
– CAT40 (also for version with Face Contact) with pull stud ISO 7388-B	80.162.40.04
– BT40 (also for version with Face Contact) with pull stud MAS 403	80.162.40.06
– JBS T15 with pull stud JBS R15-45	80.162.T15
– HSK-25	80.163.25
– HSK-32	80.163.32
– HSK-40	80.163.40
– HSK-50	80.163.50
– HSK-63	80.163.63
– PSC 40	80.167.C4
– PSC 50	80.167.C5
– PSC 63	80.167.C6
– ER11	80.168.ER11
– ER16	80.168.ER16
– ER20	80.168.ER20
– ER25	80.168.ER25
– ER32	80.168.ER32

CHUCK SUPPORT

**Chuck support for single-chuck system.**

Available in taper sizes CAT30 – CAT50, BT30 – BT50, HSK-25 – HSK-125, PSC 32 – PSC 80, Makino F63, Makino F80

Precision chuck support for Power Clamp Mini, Basic, Economic/NG, Economic Plus/NG

For taper size	Order No.
– CAT/BT/SK30 (also for version with Face Contact)	80.112.30
– CAT/BT/SK40 (also for version with Face Contact)	80.112.40
– CAT/BT/SK45 (also for version with Face Contact)	80.112.45
– CAT/BT/SK50 (also for version with Face Contact)	80.112.50
– HSK-25	80.113.25
– HSK-32	80.113.32
– HSK-40	80.113.40
– HSK-50/HSK-63F	80.113.50
– HSK-63/KM4X63*	80.113.63
– HSK-80	80.113.80
– HSK-100/KM4X100*	80.113.10
– HSK-125	80.113.125
– PSC 32	80.114.30
– PSC 40	80.114.40
– PSC 50	80.114.50
– PSC 63	80.114.60
– PSC 80	80.114.80
– Makino F63	80.113.F63M
– Makino F80	80.113.F80M

PRECISION CHUCK SUPPORT

**Precision chuck support for single-chuck system.**

– Fine machined functional surfaces

Available in taper sizes CAT30 – CAT50, HSK-25 – HSK-125, PSC 32 – PSC 80, Makino F63, Makino F80

**Precision chuck support for Power Clamp Preset NG/Power Clamp Premium Plus/Power Clamp Air i4.0
Eco/Comfort/Power Clamp Preset i4.0/Power Clamp Premium i4.0/Power Clamp Sprint i4.0**

For taper size	Order No.
– CAT/BT/SK30 (also for version with Face Contact)	80.132.30
– CAT/BT/SK40 (also for version with Face Contact)	80.132.40
– CAT/BT/SK45 (also for version with Face Contact)	80.132.45
– CAT/BT/SK50 (also for version with Face Contact)	80.132.50
– HSK-25	80.133.25
– HSK-32	80.133.32
– HSK-40	80.133.40
– HSK-50/HSK-63F	80.133.50
– HSK-63/KM4X63*	80.133.63
– HSK-80	80.133.80
– HSK-100/KM4X100*	80.133.10
– HSK-125	80.133.125
– PSC 32	80.134.30
– PSC 40	80.134.40
– PSC 50	80.134.50
– PSC 63	80.134.60
– PSC 80	80.134.80
– Makino F63	80.133.F63M
– Makino F80	80.133.F80M

* KM4X is a registered trademark/tradename of Kennametal Inc.

PRECISION CHUCK SUPPORT FOR POWER CLAMP PREMIUM PLUS



Precision chuck support for Power Clamp Premium Plus.

- Fine machined functional surfaces
 - With pin for protection of the chuck
- Available in taper sizes CAT30 – CAT50, BT30 – BT50, HSK-25 – HSK-125, PSC 32 – PSC 80

Precision chuck support for Power Clamp Premium Plus

For taper size	Order No.
– CAT/SK30	80.172.30
– CAT/SK40	80.172.40
– CAT/SK45	80.172.45
– CAT/SK50	80.172.50
– BT30	80.175.30
– BT40	80.175.40
– BT45	80.175.45
– BT50	80.175.50
– HSK-25	80.173.25
– HSK-32	80.173.32
– HSK-40	80.173.40
– HSK-50	80.173.50
– HSK-63	80.173.63
– HSK-80	80.173.80
– HSK-100	80.173.10
– HSK-125	80.173.125
– HSK-F63M	80.173.F63M
– HSK-F80M	80.173.F80M
– PSC 32	80.174.30
– PSC 40	80.174.40
– PSC 50	80.174.50
– PSC 63	80.174.60
– PSC 80	80.174.80

CHUCK SUPPORT FOR ROTARY TABLE



Chuck support for rotary table.

Available in taper sizes CAT30 – CAT50,
BT30 – BT50, HSK-25 – HSK-100,
PSC 32 – PSC 80

Chuck support for Power Clamp Profi Plus NG/Comfort/Comfort NG/Comfort i4.0

For taper size	Order No.
– CAT/BT/SK30 (also for version with Face Contact)	80.102.30
– CAT/BT/SK40 (also for version with Face Contact)	80.102.40
– CAT/BT/SK45 (also for version with Face Contact)	80.102.45
– CAT/BT/SK50 (also for version with Face Contact)	80.102.50
– Various sizes	80.103.00
– HSK-25	80.103.25
– HSK-32	80.103.32
– HSK-40	80.103.40
– HSK-50	80.103.50
– HSK-63	80.103.63
– HSK-80	80.103.80
– HSK-100	80.103.10
– PSC 32	80.104.30
– PSC 40	80.104.40
– PSC 50	80.104.50
– PSC 63	80.104.60
– PSC 80	80.104.80

CHUCK SUPPORT FOR ER SHRINK FIT COLLETS



Chuck support for ER shrink fit collets with integrated length presetting.

- Precise clamping of the collet
- Fast and repeatable length adjustment with stop pin
- Adjustment with set screw and counter nut
- Integrated in chuck support, thus very space-saving
- Easy handling by turning of set screw and counter nut
- Application suitable also at multi-spindle machines for repeatable length presetting of twin tools

Chuck support for	Order No.
– ER11	80.135.11
– ER16	80.135.16
– ER20	80.135.20
– ER25	80.135.25
– ER32	80.135.32
– Base holder for Power Clamp Basic/Economic/Economic Plus	80.155.01

CHUCK SUPPORT FOR HAIMER ER SHRINK FIT COLLETS



Chuck support for HAIMER ER shrink fit collets with integrated length presetting.

- Fixture of collet by screwing on chuck support
- High process stability, no movement of collet possible
- Fast and repeatable length adjustment with stop pin
- Adjustment with set screw and counter nut
- Integrated in chuck support, thus very space-saving
- Easy handling by turning of set screw and counter nut
- Application suitable also at multi-spindle machines for repeatable length presetting of twin tools

Chuck support for

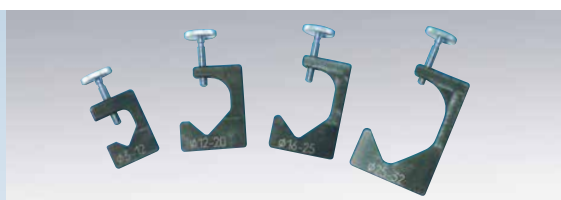
Order No.

– ER11	80.137.ER11
– ER16	80.137.ER16
– ER20	80.137.ER20
– ER25	80.137.ER25
– ER32	80.137.ER32
– Precision base holder for HAIMER ER shrink fit collets	80.131.02

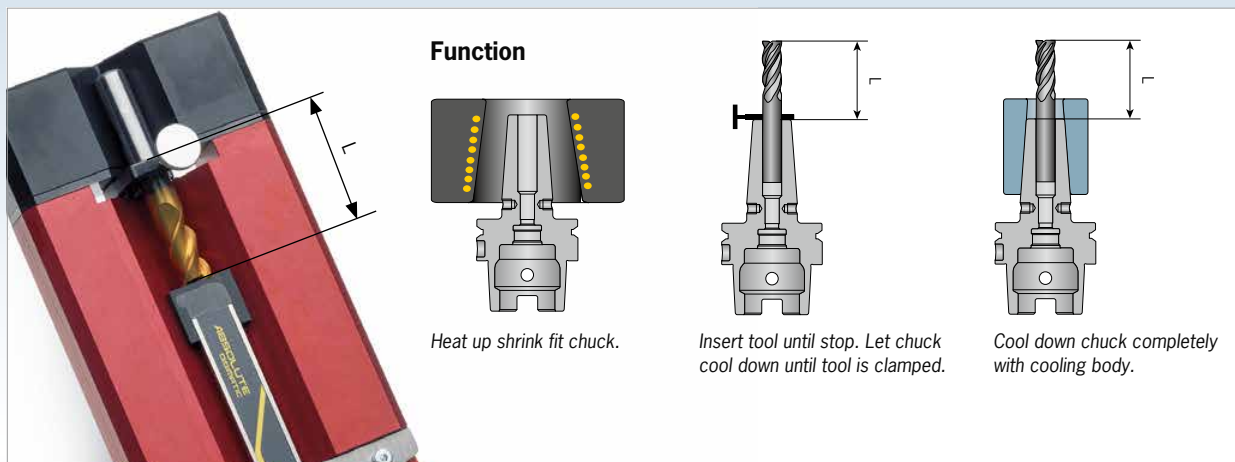
EASY SET SIMPLE PRESETTING

Simple presetting

- Quick and simple presetting tool overhang
- Maximum overhang length: 150 mm
- Accuracy: ± 0.05 mm
- Suitable for all shrink fit chucks and machines (flame, hot air, contact, induction)
- Space-saving
- Excellent relationship between price and efficiency
- Can be added at any time
- Included in delivery: 3 stop clips (\varnothing 3–12, \varnothing 12–20, \varnothing 16–25 mm),
Optional: \varnothing 25–32 mm



Stop clips

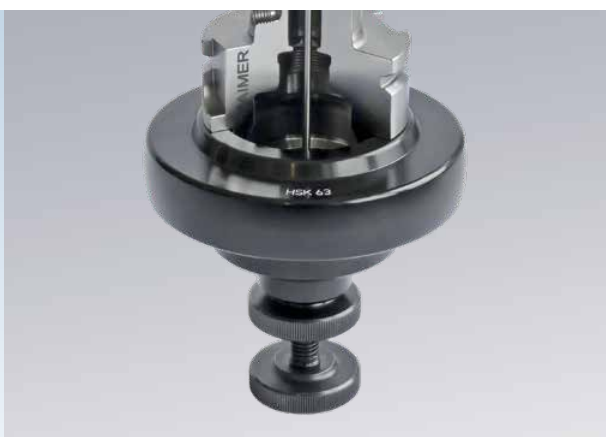


Easy Set	Order No.
– Easy Set 100 mm protruding length	80.123.00
– Easy Set 150 mm protruding length	80.125.00
– Stop clip for clamping \varnothing 3–12 mm	80.123.01
– Stop clip for clamping \varnothing 12–20 mm	80.123.02
– Stop clip for clamping \varnothing 16–25 mm	80.123.03
– Stop clip for clamping \varnothing 25–32 mm	80.123.04

QUICK SET LENGTH PRESETTING

Length adjustment for shrink fit chucks without back-up screw, e. g. Mini Shrink

- Fast, repeatable length adjustment of the total tool assembly with stop pin
- Adjustment with set screw and counter nut
- Integrated in chuck support, thus very space-saving
- Easy handling by turning of set screw and counter nut
- Application suitable also at multi-spindle machines for repeatable length presetting of twin tools



Picture shows: Quick Set with base holder (Base holder not included in delivery)

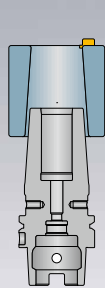
Length Presetting Quick Set for	Order No.
– CAT/SK/BT40	80.136.240
– HSK-E25	80.136.325
– HSK-E32	80.136.332
– HSK-E40	80.136.340
– HSK-E50	80.136.350
– HSK-A63	80.136.363
– HSK-A100	80.136.310
– PSC 40	80.136.440
– PSC 50	80.136.450
– Base holder for Power Clamp Basic/Economic/Economic Plus	80.155.01
– Pin L = 150 mm	80.136.001
– Pin L = 200 mm	80.136.002
– Pin L = 125 mm	80.136.003
– Pin L = 175 mm	80.136.004
– Pin L = 310 mm	80.136.006
– Pin L = 270 mm	80.136.007

COOLING ADAPTER AND COOLING ADAPTER BLANKS

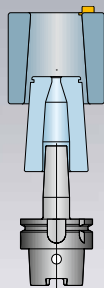


Cooling adapters fit and cool an expanded selection of shrink fit chucks and extensions. The adapter is inserted into the cooling body and locked. Then it can be placed onto the shrink fit chuck.

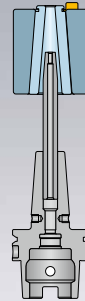
- Cooling bodies for Ø 14–16 mm and Ø 25–32 mm with side lock



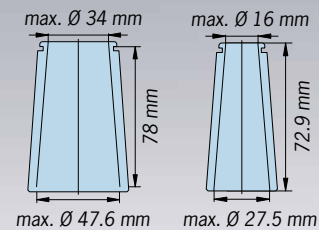
Cooling body for shrink fit chuck according to DIN



Cooling body with adapter for special shrink fit chucks



Cooling body with adapter for shrink fit chuck with extension



for Cooling body:
Ø 25–32 mm Ø 14–16 mm

Cooling adapter blanks for individual adaption to each shrink fit chuck by the user.

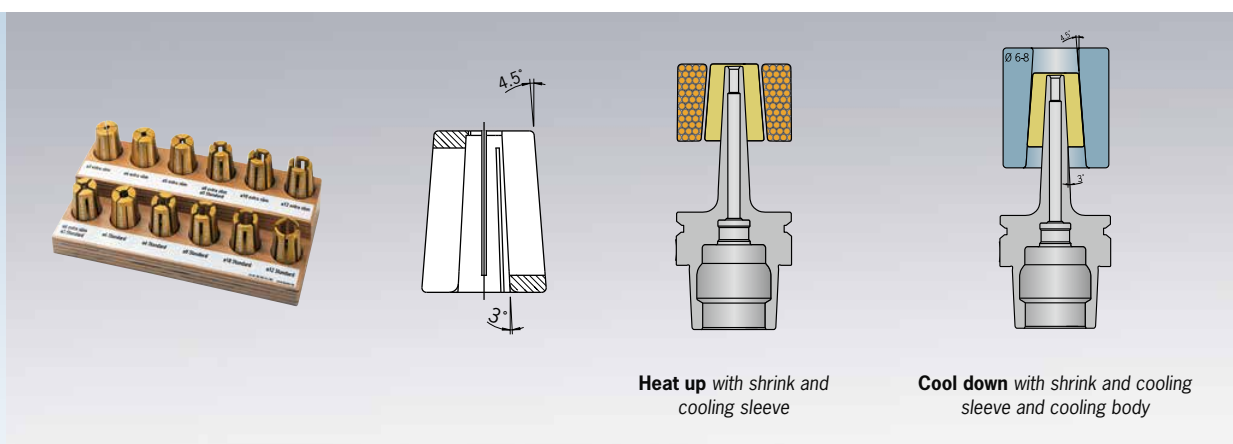
Accessories		Order No.
– Cooling adapter blanks for cooling body	Ø 14–16 mm	80.105.14.0
– Cooling adapter blanks for cooling body	Ø 25–32 mm	80.105.16.0
– Cooling adapter blanks for cooling body	Ø 40–50 mm	80.105.19.3.0
– Cooling adapter for extensions	Ø 12 mm/Ø 16 mm	80.105.14.1.1
– Cooling adapter for extensions	Ø 20 mm	80.105.14.1.2
– Cooling adapter for shrink fit chucks	Ø 3–5 mm	80.105.14.1.3
– Cooling adapter Heavy Duty Ø16 mm for cooling body	80.105.19.1	80.105.19.3.1
– Cooling adapter Heavy Duty Ø20 mm for cooling body	80.105.19.1	80.105.19.3.2
– Cooling adapter Heavy Duty Ø25 mm for cooling body	80.105.19.1	80.105.19.3.3
– Cooling adapter Heavy Duty Ø32 mm for cooling body	80.105.19.1	80.105.19.3.4
– Base for cooling adapters		80.105.14.1.99

MINI SHRINK SHRINK AND COOLING SLEEVES



For shrinking and cooling of Mini Shrink chucks.

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



Fitting sleeves for Mini Shrink chucks

Order No.

– Extra slim

Size [mm]	\varnothing 03	\varnothing 04	\varnothing 05	\varnothing 06	\varnothing 08	\varnothing 10	\varnothing 12
Size [inch]	\varnothing 1/8	—	\varnothing 3/16	\varnothing 1/4	\varnothing 5/16	\varnothing 3/8	\varnothing 1/2
Order No. 80.105.14...	.2.01	.2.02	.2.03	.2.04	.2.05	.2.06	.2.07

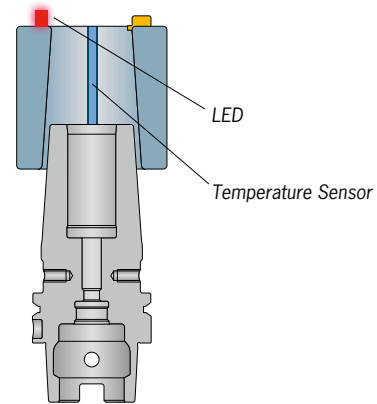
– Standard

Size [mm]	\varnothing 03	\varnothing 04	\varnothing 05	\varnothing 06	\varnothing 08	\varnothing 10	\varnothing 12	\varnothing 16
Size [inch]	\varnothing 1/8	—	\varnothing 3/16	\varnothing 1/4	\varnothing 5/16	\varnothing 3/8	\varnothing 1/2	\varnothing 5/8
Order No. 80.105.14...	.2.04	.2.08	.2.05	.2.09	.2.10	.2.11	.2.12	.2.16

– Base 80.105.14.2.99

– Set with base (12 pcs., diameter 3 – 12 mm) 80.105.14.2.00

TME COOLING SYSTEM WITH TEMPERATURE CONTROL



Temperature control of the shrink fit chuck during the cooling process for safe handling

- Sensor in aluminum body measures temperature
- If temperature is too high: red light
- If temperature is at right level: green light
- Minimizes danger of injury due to hot chucks
- Patented temperature control

TME Cooling System	Order No.
– TME Intelligent Cooling System for 13 kW machines	80.105.19.01
– TME Intelligent Cooling System for 20 kW machines	80.105.19.11

TENSION SPRINGS FOR LENGTH PRESETTING FOR SHRINK FIT CHUCKS



Tension spring for length presetting

- Spring is set into clamping bore
- Spring presses tool against stop disk
- Backup screw can remain in chuck
- Fits all common shrink fit chucks

Tension Springs										Order No.
– Size [mm]	Ø 6	Ø 8	Ø 10	Ø 12	Ø 14	Ø 16	Ø 18	Ø 20	Ø 25	Ø 32
Size [inch]	Ø ¼	Ø 5/16	Ø 3/8	Ø ½	—	Ø 5/8	—	Ø ¾	Ø 1	Ø 1 ¼
Order No. 85.830...	.06	.08	.10	.12	.14	.16	.18	.20	.25	.32
– Tension spring set (10 pcs. of each size) incl. pull-out gripper										85.830.00

SHRINK-OUT DEVICE

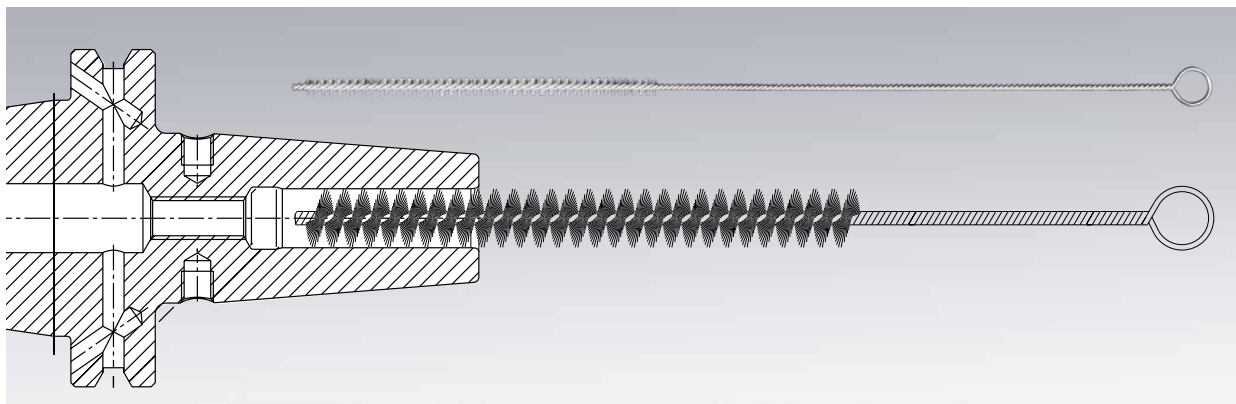
**Shrink-out device for broken tools.**

- Set includes 1 base plate and 6 pins (3 diameters in 2 lengths each), without pliers
- Rubber plate for saving the chuck
- Drawer insert for craning box
- Suitable for all Power Clamp shrink fit machines

	Order No.
– Shrink-out device	80.126.00
– Combination pliers	80.107.00

Accessories	Order No.
– Pin 160 mm x 2.3 mm	113027-0004
– Pin 160 mm x 4.7 mm	113027-0005
– Pin 160 mm x 6.0 mm	113027-0006
– Pin 275 mm x 2.3 mm	113027-0007
– Pin 275 mm x 4.7 mm	113027-0008
– Pin 275 mm x 6.0 mm	113027-0009

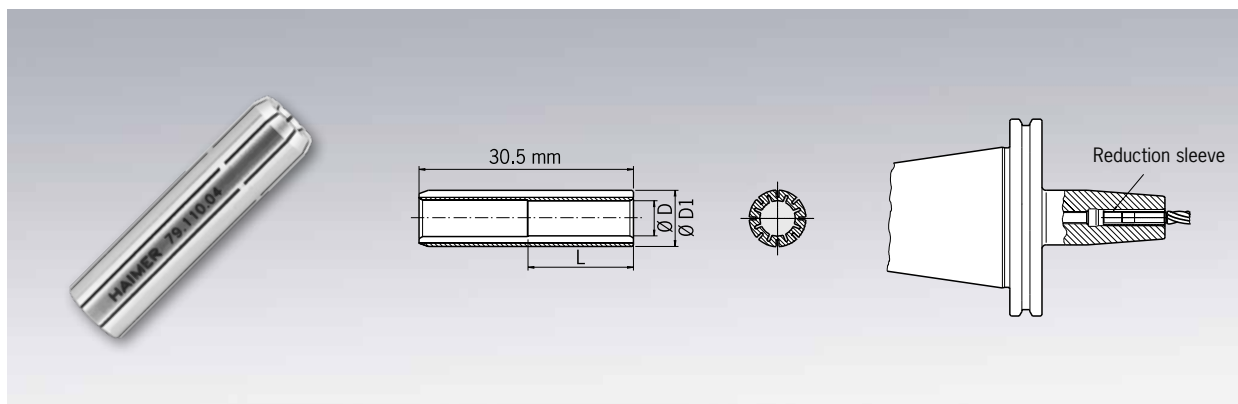
SHRINK FIT BRUSH



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 dry solvent (e.g. brake cleaner). An appropriate cleaning brush is necessary to clean the socket of the Shrink Fit Chuck.

Shrink Fit Brush	Order No.
– Ø 1/8" (3 mm)	86.200.01
– Ø 3/16" / 3.5 mm / 4 mm / 4.5 mm / 5 mm	86.200.02
– Ø 1/4" – 5/16" / 6 mm / 8 mm	86.200.03
– Ø 3/8" – 1/2" / 10 mm / 12 mm	86.200.04
– Ø 5/8" / 14 mm / 16 mm	86.200.06
– Ø 3/4" / 18 mm / 20 mm	86.200.07
– Ø 1" / 25 mm	86.200.08

REDUCTION SLEEVES

**Use:**

For clamping small shanks in chucks with \varnothing 5/16" or 8 mm ID's.

First step: shrink sleeve into bore of chuck.

Second step: shrink tool shank in reduction sleeve.

- Shank tolerance h6
- Sealed (ready for internal coolant)

For use in all chucks as reducers.

- Shrink fit chucks
- High-Precision chucks
- Collet chucks
- Hydraulic chucks
- Other high precision mechanical chucks

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

METRIC	\varnothing D	\varnothing D1	L	Order No.
– Clamping \varnothing	2.5 mm	8 mm	7.5 mm	79.110.2.5
– Clamping \varnothing	3.0 mm	8 mm	9.0 mm	79.110.03
– Clamping \varnothing	3.5 mm	8 mm	10.5 mm	79.110.3.5
– Clamping \varnothing	4.0 mm	8 mm	12.0 mm	79.110.04
– Clamping \varnothing	4.5 mm	8 mm	13.5 mm	79.110.4.5
– Clamping \varnothing	5.0 mm	8 mm	15.0 mm	79.110.05
– Clamping \varnothing	5.5 mm	8 mm	16.5 mm	79.110.5.5

AUXILIARY FUME EXTRACTION UNIT



Auxiliary fume extraction unit to remove and filter vapors, which are produced during the shrink process.

For process reliable functionality, we recommend the assembly of the extraction unit directly on to a HAIMER system cart.

Auxiliary fume extraction unit	Shrink fit machine Power Clamp	Order No.
For coil		
– VS32-H/M	Comfort (i4.0)/Comfort NG/Preset (NG/i4.0)/Profi Plus NG	80.101.02NG.01
– VS32-H	Premium Plus	80.101.02NG.02
– VS32-M	Premium Plus	80.101.03NG.02
– VS32-S	Premium i4.0/Sprint i4.0	80.101.02NG.03
– V2008	Economic/Economic Plus/Comfort (i4.0)	80.151.00.01
– 13 kW HD/20 kW	Economic Plus NG/Comfort NG/Preset NG (i4.0)	80.151.10.01

UPGRADE KIT 13 KW HD COIL



Use:

For shrinking of Heavy Duty Shrink Chucks up to Ø 50 mm.

Delivery includes:

- 13 kW HD coil
- Coil base
- Set of stop disks
- Latest software
- HD cooling body Ø 1 ½"–2" (40–50 mm)
- Hose set for HD cooling body
- Coolant Manifold Connection
- Optional: Cooling adapter for HD cooling body

Upgrade only possible for existing shrink fit machine
Power Clamp Economic Plus (NG), Comfort (NG) or
Preset (NG) that were **produced after 01/2012**.

Order No.

– Upgrade Kit 13 kW HD coil

80.151.30.10

STOP DISKS

Clamping Ø D [mm]	Stop disks	Order No.
For coil N29 (Power Clamp Nano)		
– 3 – 5 mm		80.162.03
– 6 – 8 mm		80.162.06
– 10 – 16 mm		80.162.10
– 10 – 12 mm		80.162.10.2
–	Stop disk set N29	80.162.00
– 3 – 5 mm	Stop disk split	80.162.03.1
– 6 – 8 mm	Stop disk split	80.162.06.1
– 10 – 16 mm	Stop disk split	80.162.10.1
– 10 – 12 mm	Stop disk split	80.162.10.2.1
For 13 kW coil V2008		
– 3 – 5 mm		80.152.03
– 6 – 12 mm		80.152.06
– 14 – 16 mm		80.152.14
– 18 – 20 mm		80.152.18
– 25 – 32 mm		80.152.25
–	Set of stop disks 13 kW V2008	80.152.00
– 3 – 5 mm	Stop disk split	80.152.03.1
– 6 – 12 mm	Stop disk split	80.152.06.1
– 14 – 16 mm	Stop disk split	80.152.14.1
– 18 – 20 mm	Stop disk split	80.152.18.1
– 25 – 32 mm	Stop disk split	80.152.25.1
–	Set of stop disks 13 kW V2008 (split)	80.152.00.1
– 6 – 12 mm	Stop disk for ultra short Power Shrink Chucks	80.152.06.2
– 14 – 20 mm	Stop disk for ultra short Power Shrink Chucks	80.152.14.2
– 25 – 32 mm	Stop disk for ultra short Power Shrink Chucks	80.152.25.2
For 20 kW coil and 13 kW HD coil		
– 16 – 20 mm		80.151.10.42
– 20 – 32 mm		80.151.10.41
– 40 – 50 mm		80.151.40.40
– 16 – 20 mm	Stop disk 20 kW/13 kW split	80.151.10.42.1
– 25 – 32 mm	Stop disk 20 kW/13 kW split	80.151.10.41.1
– 40 – 50 mm	Stop disk 20 kW/13 kW split	80.151.40.40.1

**Use:**

Changeable stop disks for positioning the coil above the chuck.



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