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SHRINKING TECHNOLOGY

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Shrinking
Technology

HAIMER Power Clamp
Premium i4.0

See the HAIMER Power Clamp
Shrink Fit System in Action:





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 $\varnothing 1/8" - 1 1/4"$ (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.	80.160.21NGM.3

Accessories

Order No.

– Chuck support for Power Clamp Nano NG i4.0	see page 583
– 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 pages 758 – 767 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.	80.180.41NG.3

Accessories

Order No.

– Scanner to readout shrinking parameters from Data-Matrix codes	80.185.01
– Precision chuck support	See page 585
– 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 pages 758 – 767 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.	80.180.41NGM.3

Accessories

Order No.

– Length presetting	80.188.40
– Precision chuck support	See page 585
– 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 pages 758 – 767 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.	80.100.21NG.3

Accessories

Order No.

– Scanner to readout shrinking parameters from Data-Matrix codes	80.185.01
– Chuck support for rotary table	See page 587
– 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, 16A
- 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.	80.130.21NG.3

Accessories

Order No.

– Scanner to readout shrinking parameters from Data-Matrix codes	80.185.01
– Precision chuck support	See page 585
– 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	3x400–480 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	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.	80.180.01NG

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 585
– 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.	80.180.21NG

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 585
– 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 pages 758 – 767 to find the shrink fit collet program.