

PIONEER ES 1200

EASY SHRINK

The Compact Easy to Use Shrink Machine

- Energy saving induction technology for long tool holder service life
- 1/8 - 1-1/4 (3mm-32mm) Capacity
- Barcode Scanner Operation, No setting to set or adjust
- Built in Air Cooling System
- Maximum tool length from holder gageline 17.7" (450mm)
- Maximum cooling length 7.9" (200mm)
- Will function with all shrink holder styles and shrink collets with proper adapter
- Compact table top design
- Precise centering of the cutting tool



How does it work?

- Prepare the cutting tool with location disk
- Scan the appropriate bar code for the cutter size
- Pull down the coil to the holder
- Press Start
- Insert or Remove the cutting tool
- Add Air Cooling Ring for the nose type
- Slide to Air Cooling Station



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ES LC1200

Liquid Cooling System

LIQUID COOLER (LC1200)

The LC1200 cooling element is the latest innovation in the field of liquid cooling for shrink fit chucks. With its advanced cooling technology and user-friendly features, the LC1200 Liquid Cooler sets new standards in cooling. Designed for maximum efficiency and ease of use, this cooling unit offers a reliable solution for a wide range of industrial applications.

Main Features

Maximum cooling length: Up to 13.75" with HSK-A63, ideal for long tools.
Hinged lid: Enables easy cooling of long tools without additional modifications. Liquid cooling: Fast and effective cooling in just 47 seconds.

Delivery includes: 1 liter of coolant concentrate, compressed air gun.

Technical Data

- Item number: ES-LC1200 (LC1200, Liquid Cooler)
- Cooling time: 47 secs (Option-I) & 87 secs (Option-II) Compressed air: At least 4 bar
- Power supply: 80-264 VAC / 47-63 Hz
- Dimensions (W x D x H): 415 x 480 x 710 mm (16.3" x 18.9" x 28")
- Weight: 24 kg (53 lbs)

How it works

Installation: The LC1200 liquid cooler is simply integrated into existing shrink fit units and is immediately ready for use.

Cooling process: Shrink fit chucks with tools are placed in the cooling element and cooled evenly within 47 and 87 seconds. The hinged lid also allows long tools to be cooled.

Maintenance: The LC1200 is maintenance-friendly and easy to clean. The coolant can be replaced quickly and easily.

Advantages

- Efficient cooling: The LC1200 cools tools quickly and evenly, resulting in a longer tool life and improved production quality.
- Easy handling: The hinged lid and user-friendly design make operation quick and easy.
- Cost efficiency: Effective cooling and the prevention of mold overheating reduce operating costs and increase productivity.
- Flexibility: This is suitable for a wide range of molds and applications, making it a versatile solution for the industry. Reduction of non-productive time: Cooling tools in seconds significantly reduces non-productive time.
- No need to actively cool down the emulsion: Saves time and simplifies the cooling process.
- No power consumption due to additional cooling unit: Reduces energy costs and improves the environmental balance. Protection and care against corrosion: The tools and shrink fit chucks are protected against corrosion, which extends their service life.
- No damage to the tool cutting edge: The cooling units do not damage the tool cutting edge, which preserves the quality of the tools.
- No additional cooling accessories: No need for additional cooling accessories for different shrink fit chuck outer geometries, which simplifies handling and reduces costs.



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PIONEER ES 1200 Shrink Machine Accessories: Tool Shank Base Adapters—Air Cooled

Tool Shank Base Adapters make taper contact with the shank of the Shrink Fit Holder to act as a heat sink and reduce the cooling time from 5 minutes to approx. 2 minutes with Nose End Cooling Rings installed.

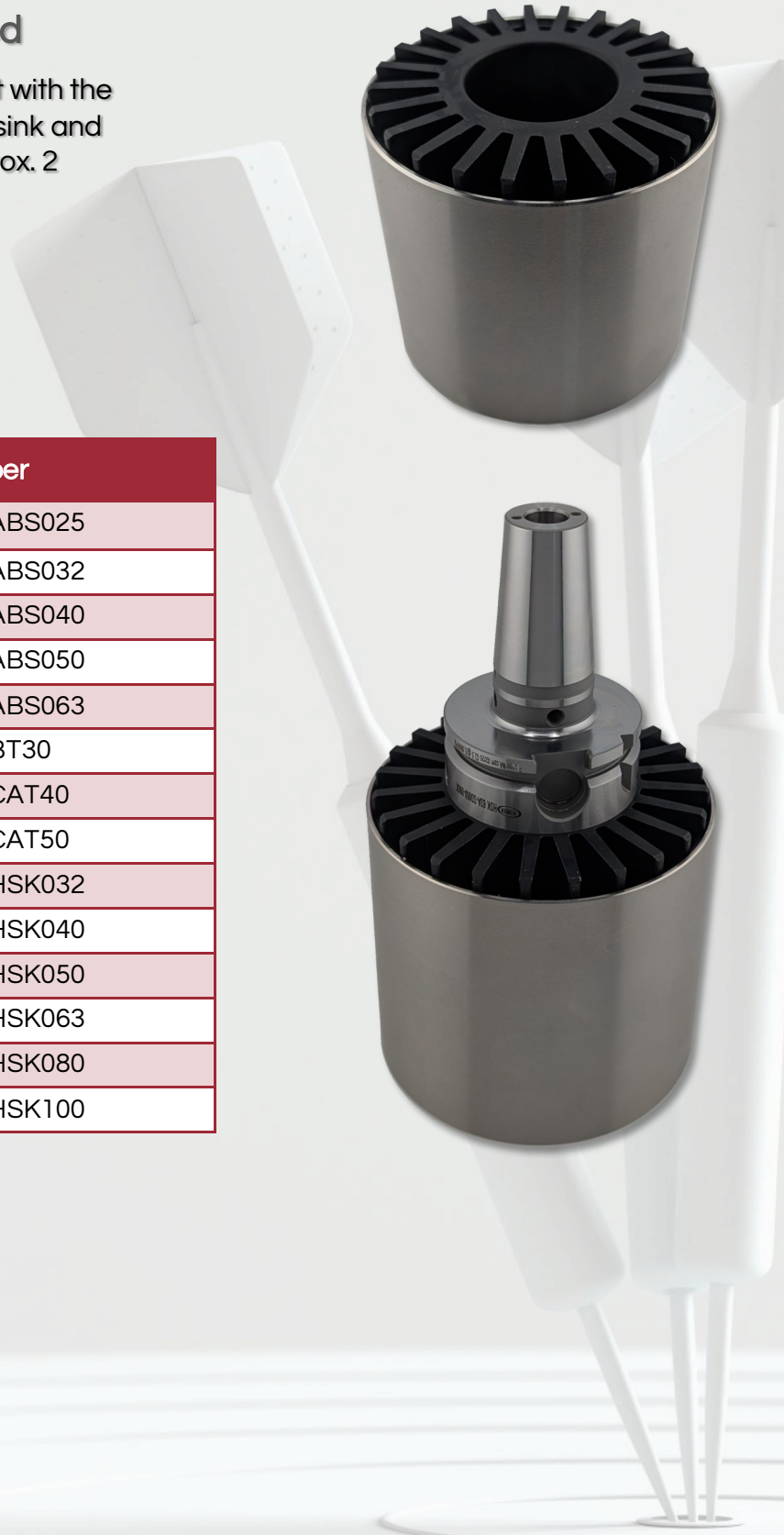
Tool shank	Part Number
ABS25*	ES-BASE-ABS025
ABS32, CAPTO C3*	ES-BASE-ABS032
ABS40, CAPTO C4*	ES-BASE-ABS040
ABS50, CAPTO C5*	ES-BASE-ABS050
ABS63, CAPTO C6*	ES-BASE-ABS063
CAT30 BT30 ISO30 SK30 DIN30	ES-BASE-BT30
CAT40 BT40 ISO40 SK40 DIN30	ES-BASE-CAT40
CAT50 BT50 ISO50 SK50 DIN30	ES-BASE-CAT50
HSK32A/E HSK40F	ES-BASE-HSK032
HSK40A/E HSK50F	ES-BASE-HSK040
HSK50A/E HSK63F	ES-BASE-HSK050
HSK63A/E HSK80F	ES-BASE-HSK063
HSK80A/E HSK100F	ES-BASE-HSK080
HSK100A/E	ES-BASE-HSK100

**Does not make taper contact cooling times may vary.*



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PIONEER ES 1200 Shrink Machine Accessories:
Nose End Cooling Ring Adaptor—Air Cooled

Nose End Cooling Ring makes taper contact with the tapered nose of the Shrink Fit Holder to act as a heat sink and reduce the cooling time from 5 minutes to approx. 2 minutes.

Nose End Cooling Rings are designed for standard SD holders diameter and taper.
Slim and Heavy Duty holders will require a special build.

For Holder Gage Length	Cutter Shank Range	Part Number
up to 120mm length	1/8 & 3/16 - 3.0-5.9 mm	ES-T3K-03
up to 120mm length	1/4 & 5/16 - 6.0-9.0 mm	ES-T3K-06
up to 120mm length	3/8 & 7/16 - 9.1-12.0 mm	ES-T3K-09
up to 120mm length	1/2 & 9/16 - 12.1-16.0 mm	ES-T3K-12
up to 120mm length	5/8 & 3/4 - 16.1-22.0 mm	ES-T3K-16
up to 120mm length	7/8, 1" & 1-1/4 - 22.1-32.0 mm	ES-T3K-22
up to 200mm length	1/8 & 3/16 - 3.0-5.9 mm	ES-T3K-03-L200
up to 200mm length	1/4 & 5/16 - 6.0-9.0 mm	ES-T3K-06-L200
up to 200mm length	3/8 & 7/16 - 9.1-12.0 mm	ES-T3K-09-L200
up to 200mm length	1/2 & 9/16 - 12.1-16.0 mm	ES-T3K-12-L200
up to 200mm length	5/8 & 3/4 - 16.1-22.0 mm	ES-T3K-16-L200
up to 200mm length	7/8, 1" & 1-1/4 - 22.1-32.0 mm	ES-T3K-22-L200



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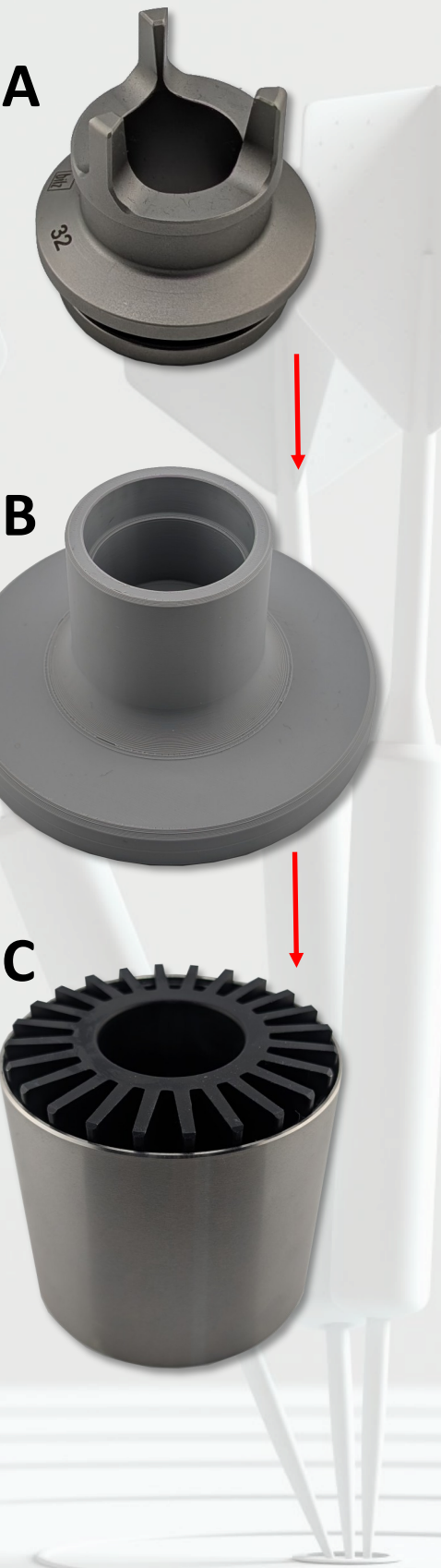
PIONEER ES 1200 Shrink Machine Accessories:
ER Shrink Collet Locator

Designed to locate the ER Shrink Collet in the Machine Heating Coil

Required

- 1. (1) Adapter **(A)** to Holder the ER Collet
- 2. (1) **(B)** Base Adapter
- 3. (1) **(C)** Shrink Tool Holder Base *(Page 2)*

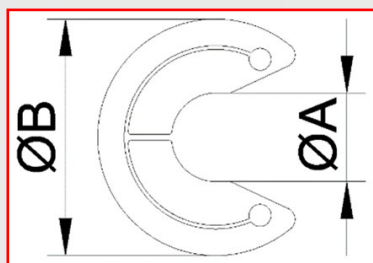
Notes	Picture	Part Number
Adapter to hold ER11 Collet	A	ES-ER11
Adapter to hold ER16 Collet	A	ES-ER16
Adapter to hold ER20 Collet	A	ES-ER20
Adapter to hold ER25 Collet	A	ES-ER25
Adapter to hold ER32 Collet	A	ES-ER32
Base Adapter to hold item C	B	ES-ER-BASE-AIR



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PIONEER ES 1200 Shrink Machine Accessories: Length Setting Disk

Length Setting Disk snap onto the shank of the cutting tool to assist in locating the cutting edge to the face of the holder.



Cutter Shank	B (mm)	Part Number
Ø0.1250	Ø 16	ES-LSD-0318
Ø0.1875	Ø 16	ES-LSD-0476
Ø0.2500	Ø 16	ES-LSD-0635
Ø0.3125	Ø 20	ES-LSD-0794
Ø0.3750	Ø 20	ES-LSD-0953
Ø0.5000	Ø 25	ES-LSD-1270
Ø0.6250	Ø 30	ES-LSD-1588
Ø0.7500	Ø 34	ES-LSD-1905
Ø1.0000	Ø 39	ES-LSD-2540
Ø1.2500	Ø 50	ES-LSD-3175

Cutter Shank	B (mm)	Part Number
Ø 3mm	Ø 16	ES-LSD-0300
Ø 5mm	Ø 16	ES-LSD-0500
Ø 6mm	Ø 16	ES-LSD-0600
Ø 8mm	Ø 20	ES-LSD-0800
Ø10mm	Ø 20	ES-LSD-1000
Ø 12mm	Ø 25	ES-LSD-1200
Ø 14mm	Ø 25	ES-LSD-1400
Ø 16mm	Ø 30	ES-LSD-1600
Ø 18mm	Ø 30	ES-LSD-1800
Ø 20mm	Ø 34	ES-LSD-2000
Ø 25mm	Ø 39	ES-LSD-2500
Ø 32mm	Ø 50	ES-LSD-3200



Set Range	Part Number
1/8 - 1-1/4	ES-LSD INCH SET
3mm, 5mm - 32mm	ES-LSD METRIC SET



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PIONEER ES 1200 Shrink Machine Accessories: Length Setting Tool

Length Setting Tools are used to set the preset screw height so when the holder is heated the cutting tool can be entered into the holder and shrunk to the desired preset length.

Setting adapters are 80mm (3.149") from the face of the shrink holder to the face of the setting adapter.

- Retrieve your desired preset length of the cutting tool
- Add 80mm (3.149")
- Using a height stand or presetter, set the length setting adapter at the desired preset length, turning the length setting adapter to adjust the preset screw with the 80mm (3.149") + length over cutting tool.
- Remove the length setting adapter
- Shrink the cutting tool until it makes contact with the preset screw.

Cutter Shank Dia	Offset	Hex size	Version	Part Number
0.2500	80 (3.149)	2.5	inch	ES-DS-M0635
0.3750	80 (3.149)	4	inch	ES-DS-M0953
0.5000	80 (3.149)	5	inch	ES-DS-M1270
0.6250	80 (3.149)	6	inch	ES-DS-M1588
0.7500	80 (3.149)	8	inch	ES-DS-M1905
0.8750	80 (3.149)	8	inch	ES-DS-M2223
1.0000	80 (3.149)	8	inch	ES-DS-M2540
1.2500	80 (3.149)	8	inch	ES-DS-M3175

Cutter Shank Dia	Offset	Hex size	Version	Part Number
6	80 (3.149)	2.5	metric	ES-DS-M0600
8	80 (3.149)	3	metric	ES-DS-M0800
10	80 (3.149)	4	metric	ES-DS-M1000
12	80 (3.149)	5	metric	ES-DS-M1200
14	80 (3.149)	5	metric	ES-DS-M1400
16	80 (3.149)	6	metric	ES-DS-M1600
18	80 (3.149)	6	metric	ES-DS-M1800
20	80 (3.149)	8	metric	ES-DS-M2000
25	80 (3.149)	8	metric	ES-DS-M2500
32	80 (3.149)	8	metric	ES-DS-M3200



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PIONEER ES 1200 Shrink Machine Accessories:
Coil Locating Disk

Range	Part Number
1/8 & 3/16 - 3.0-5.9 mm	ES-CLD-0
1/4 to 7/16 - 6.0-12.0 mm	ES-CLD-1
1/2 to 3/4 - 12.1-22.0 mm	ES-CLD-2
7/8 to 1-1/4 - 22.1-32.0 mm	ES-CLD-3



PIONEER ES 1200 Shrink Machine Accessories:
Coil Locating Disk
2 Piece for Large Headed Cutting Tools

Range	Part Number
1/8 & 3/16 - 3.0-5.9 mm	ES-CLDS-0
1/4 to 7/16 - 6.0-12.0 mm	ES-CLDS-1
1/2 to 3/4 - 12.1-22.0 mm	ES-CLDS-2
7/8 to 1-1/4 - 22.1-32.0 mm	ES-CLDS-3



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