

KH16P PORTABLE HOSE CRIMPING MACHINE

Operating Instruction Manual

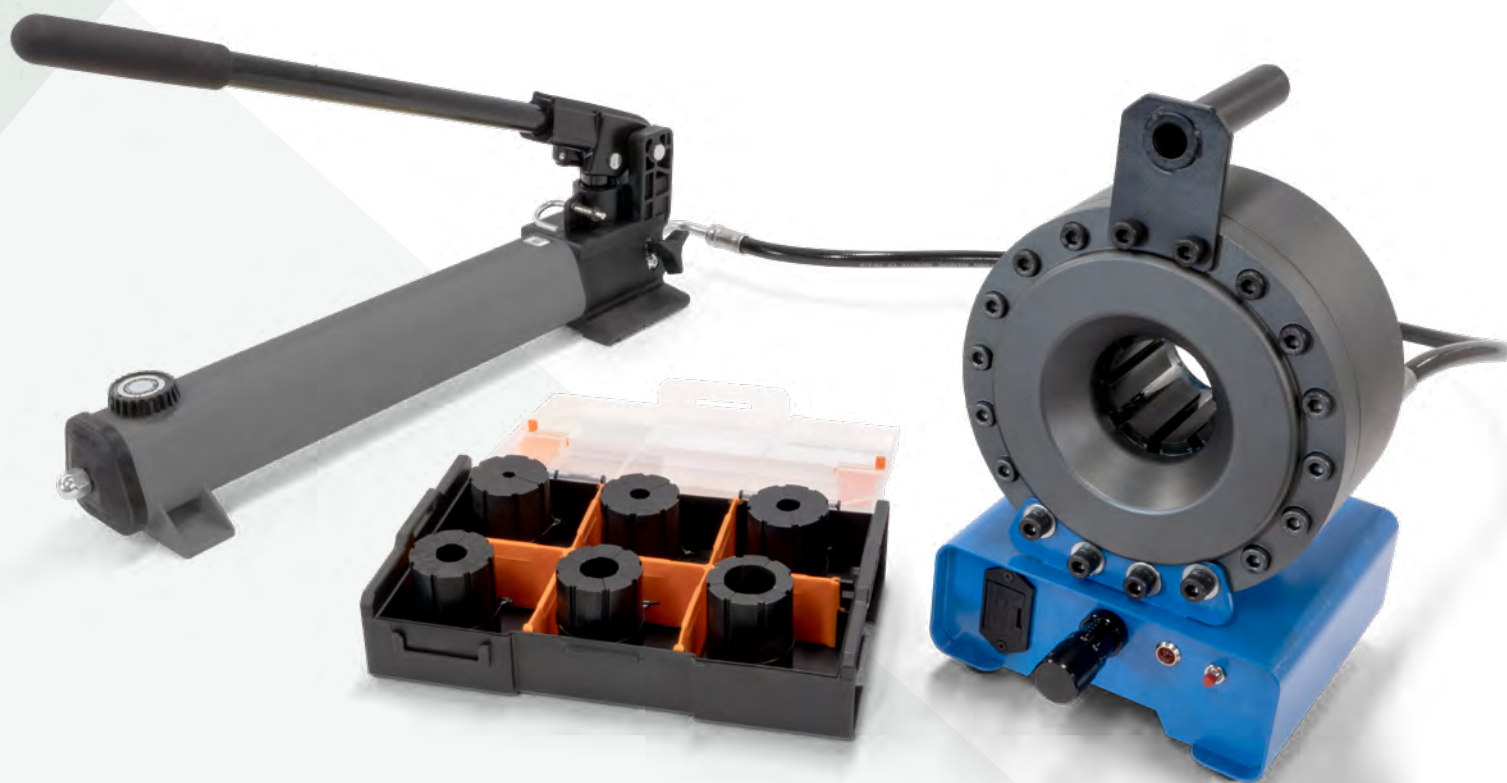


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IN THE BOX

- Crimper
- 9 Volt battery
- Spare seals
- Pump
- Pump hose assembly
- 7 dies and die case

DIE SET	PART NO.
Ø8 die set	KM92SAD-8
Ø12 die set	KM92SAD-12
Ø14 die set	KM92SAD-14
Ø18 die set	KM92SAD-18
Ø21 die set	KM92SAD-21
Ø28 die set	KM92SAD-28
Ø35 die set	KM92SAD-35

TECHNICAL DATA

Model	KH16P
Crimp range	Ø6 - Ø25 4SH (1/4" to 1" hose)
Pump	Manual hydraulic pump
System Pressure	5076 PSI
Opening without dies	Ø2.09 inches
Recommended Hydraulic Oil	Winter: L-HM32
	Summer: L-HM46
Oil Volume	11.1 fluid ounces
Dimension	12.00" x 14.56" x 10.63"

CRIMPER DATA

Fill out crimper information for quick reference.

**REGISTER YOUR WARRANTY ONLINE
AT: KURTHYDRAULICS.COM**

Purchase Date: _____ - _____ - _____

Purchase Order: _____

Purchased From: _____

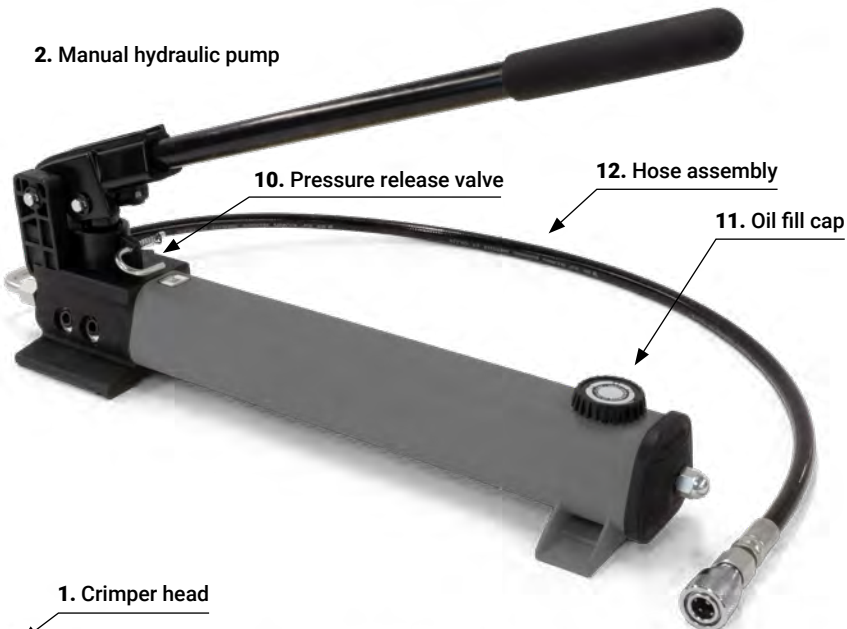
Delivery Date: _____

Serial Number: _____

INTRODUCTION

The Kurt Hydraulics KH16P Crimper is part of our new product series. Featuring maximum on-the-fly portability and flexibility with a hydraulic hand pump, 7 die sets, and the capacity to crimp hoses 1/4 inch to 1 inch in diameter.

2. Manual hydraulic pump



4. 6 mm hex bolts

1. Crimper head



Includes 7 die sets:
8/12/14/18/21/28/35

#	DESCRIPTION	PART NO.
1	Crimper head	KM92SA/H
2	Manual hydraulic pump	KMHP-P392
3	Die shoes	KMDB92SA
4	6 mm Hex bolts	KMHB6/18 pcs
5	Crimper body	KM92SAF/B
6	Indicator light test	KMLT/9V
7	Full crimp indicator	KMCI/9V
8	Crimp size dial	KMS/92SA
9	Battery compartment	KMB/9V
10	Pressure release valve	KMHP-P392/RV
11	Oil fill cap	KMHP-P392/OFC
12	Hose Assembly	KMHS2M18/1.5 ft
13	Fitting on machine head	KMHAZG1/4
14	Fitting on pump	KMHAZG1/4
15	Die shoe spring	KM92SADS/8
	Crimper Seal Kit	KH16P-SK



Don't operate the machine if the hex bolts on the front of the head unit are loose. Torque hex bolts on the front of the head unit to 25 ft-lb ±6 ft-lb.

INITIAL CRIMPER SETUP

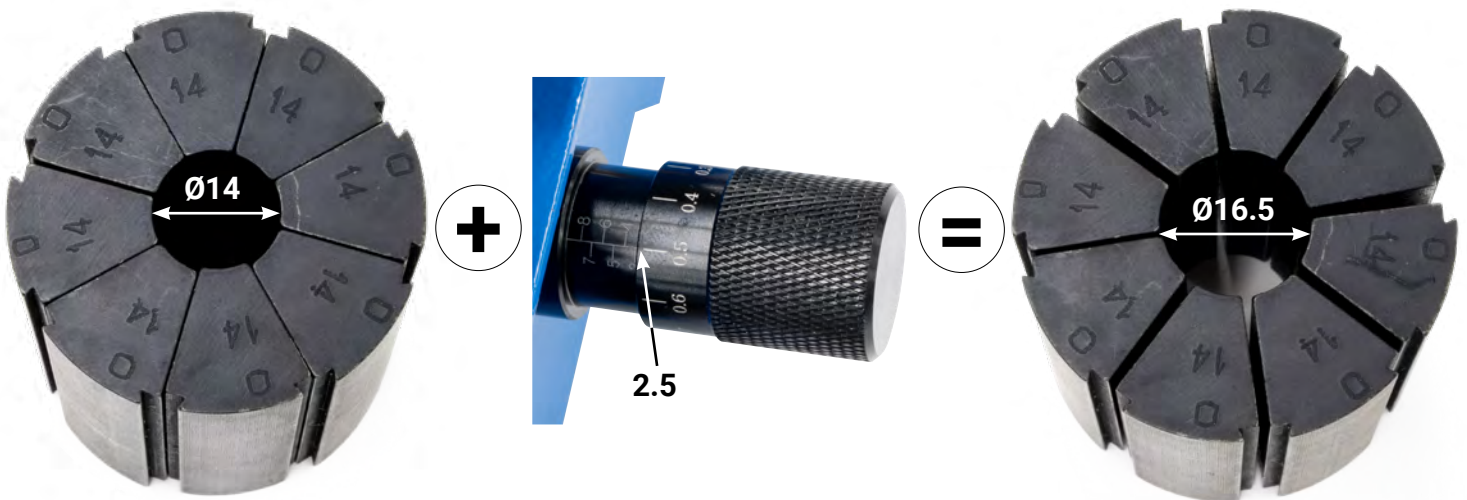
- 1. Assemble base and pump:** The KH16P is a portable crimper and designed to be used in a variety of places and operating conditions. Unbox and assemble crimper and pump and operate it in a dry, well-ventilated area above 50°F.
- 2. Fill pump with hydraulic fluid:** Open oil fill cap and slowly fill the hydraulic operating fluid slowly. Fill the oil reservoir with **L-HM32 Anti-Wear hydraulic oil** (cold weather) or **L-HM46 hydraulic oil** (hot weather). Oil tank holds 11.1 fl oz.



Always follow manufacturer crimp specs.

- 3. System pressure:** Pressure is set at the factory and should not be adjusted.
- 4. Lubricate die shoes and crimper head:** Before operating the machine, use lithium grease to lubricate moving surfaces inside the crimper.
- 5. Choose correct die set** (see below)
- 6. Install die set according to instructions** (page 5)

DIALING IN A CRIMP SETTING / CRIMPING



DIE DIAMETER + CRIMPER DIAL SETTING = FINAL CRIMPED SIZE
(EXAMPLE: Ø14 + 2.5 = Ø16.5 mm)

- 1. Choose the die:** Using Kurt's crimp specification or other manufacturer specifications, choose the correct die set for the hose and coupling combination.
- 2. Dial in the crimp setting:** Adjust the size of the final closed crimp using the dial.
- 3. Load the die set into crimper:** See page 5
- 4. Check indicator light:** Press red test button.
- 5. Close hydraulic pressure valve:** Tighten clockwise. (at right)
- 6. Crimp hose assembly:** Place fitting and hose in crimper and use hand lever to crimp until indicator light turns on.
- 7. Open pump pressure release valve:** Loosen valve counterclockwise, remove assembly and measure crimp, adjust settings and recrimp if necessary.



ADVANCED: INCH TO MILLIMETER CONVERSION FORMULA



PRO TIP

Choose a die size closest to the final crimp diameter in mm, that also satisfies statement #2 →

- (final crimp diameter inch) $\left(\frac{25.4 \text{ mm}}{1 \text{ inch}} \right)$ = final crimp diameter mm
- Die size in mm must be $\leq$ final crimp diameter in mm

INSTALLING AND REMOVING DIE SETS

1



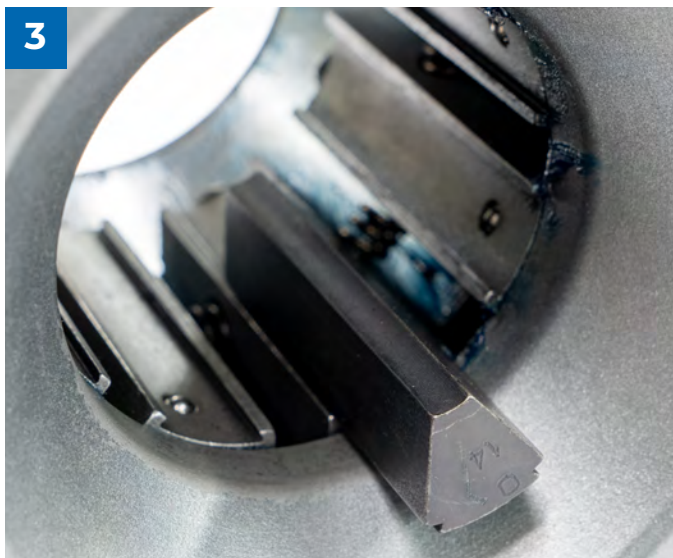
Step 1: Select the correct die. Always use manufacturer crimp specifications. See machine set up instructions on page 4.

2



Step 2: Die shoes are slotted. Make sure crimper and die shoes are lubricated with lithium grease. Dies should easily slide into die shoes.

3



Step 3: Slide each die into one of the 8 slots - position dies with numbers facing out toward operator.

4



Step 4: With all dies inserted, hose assembly can be crimped. When finished crimping dies can be slid out and placed in the die box.

MAINTENANCE (EVERY 3 MONTHS)

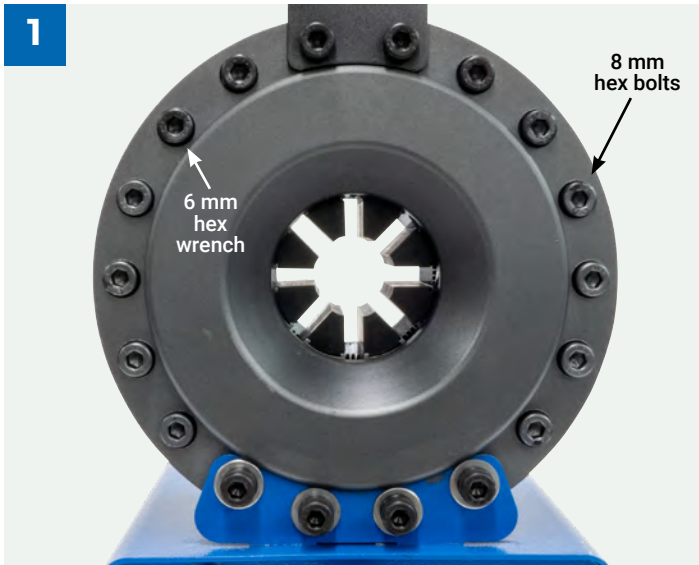
1. Regularly retorque 8 mm hex bolts on the front of the head unit to 25 ft-lb ±6 ft-lb. (photo 1)
2. **For heavy daily use, shorten the maintenance interval to 30 days (≤ 30 workdays) on the condition of full loaded operation (working pressure 4060 psi).**
3. The working surface of the machine should be kept clean. If the crimper has not been used for a long time, lubricate dies shoes with lithium grease before operating. (photo 2)
4. Regularly clean between the die shoes. Contact Kurt customer service if new springs are required. (photo 3)
5. Check the hydraulic oil in the tank. Top off if needed. (photo 4)
6. Hydraulic oil should only need changing every five years. If the oil is dirty (dark), replace it with the recommended oil: L-HM32 (winter) or L-HM46 (summer). (photo 5)
7. Don't operate the machine if the hex screws on the front of the head unit are loose. Torque screws as recommended in step 1. Regularly check for loose the fittings and/or hardware on crimper. Tighten or replace as needed.

WARRANTY

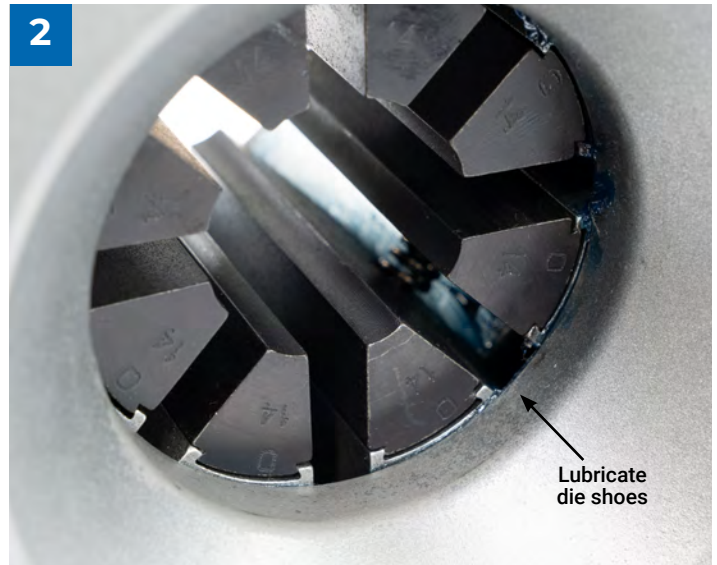
The Kurt KH16P Crimper is warranted to be free from defects in material and workmanship under normal operating conditions and recommended usage for a period of 1 year from date of delivery. Any product which is shown to be defective shall be replaced or repaired free of charge or extended a credit refund of the original acquisition cost to the purchaser. This limited warranty is contingent upon the conditions that prompt receipt of notice of any defect, that purchaser establish the product has been properly installed, maintained, and operated within the limits of related and normal usage specified, and that upon request purchaser will return the defective product.

- The device is designed for hydraulic hose assembly crimping.
- When not operating the crimper, leave the dies in the open position to avoid undue internal spring compression fatigue.
- The included dies are not suitable for pressing division lines, for special requirements, order custom dies if needed.
- Do not operate the crimper if any of the crimping head hex screws are loose or missing. If any of the screws are lost or missing, contact Kurt customer service immediately.
- Do not completely close the crimper die shoes without a die set in place.
- Kurt will not be responsible for misuse or damage to the crimper.
- In extreme circumstances, such as extreme cold or high temperatures, choose the appropriate hydraulic oil, to keep the crimper running efficiently.
- Always use a manufacturer's crimp specifications for their products when creating a custom crimp spec.

MAINTENANCE (EVERY 3 MONTHS)



Regularly retorque hex bolts on the front of the head unit to 25 ft-lb $\pm$ 6 ft-lb. Torque only the 18 x 8 mm bolts (6 mm hex wrench) ringing the head unit.



Apply lithium grease around the inside of the crimp head to lubricate the surface between the base of the die shoes and the crimper head.



Don't operate the machine if the hex bolts on the front of the head unit are loose. Torque hex bolts on the front of the head unit to 25 ft-lb $\pm$ 6 ft-lb.



Keep die shoe springs clear of debris. Lubricate area with lithium grease if dies are not releasing smoothly. Die spring part number: KM92SADS/8



Apply lithium grease around the inside of the crimp head to lubricate the surface between the base of the die shoes and the crimper head.



The hydraulic oil tank holds 11.1 ounces of oil. Be sure it is topped off and change as needed.



Thank you for your
purchase! If you have any
feedback or questions
please contact us:

Kurt Hydraulics // A Division Of Kurt Manufacturing

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Manual Version:
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