

HYDRAULIC CUTTERS

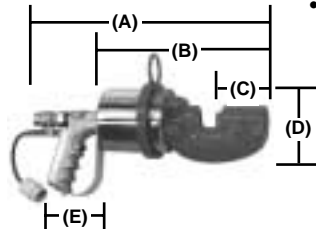
H.K.Porter®

Hydraulic Rod and Bar Cutters



W75000

- Compact, rugged, portable cutter
- Easily replaceable or redressable blades
- Cuts rods and bars
- Includes control handle
- Includes filter and air breather
- 1-hose operation



W11800

- Engineered for demanding production cutting such as steel mill applications
- Heavy-duty, large-capacity, portable, durable cutter
- Cuts chain and reinforcing rod
- Includes control handle



W13800

- Heavy-duty cutter
- Cuts rods and bars
- Includes control handle

Tool No.	Replacement Cutter Blades	
	Stationary Blade	Moving Blade
W75000	13234	13934
W11800	13918	13908
W13800	13744	13944

Cat No.	UPC No.	A		B		C		D		E		Width		Capacity		Approx. Weight		Thrust	
		Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	lb	K	lb	K
W75000	037103904447	15	394	9 3/4	248	4 1/8	105	4 1/4	108	5	128	4	102	3/4	19	17	8	25,000	11,340
W11800	037103904119	7 1/2	446	12 3/4	325	5	128	5 1/2	140	5	128	5 7/8	149	1 1/8	29	40	18	70,000	31,752
W13800	037103904218	22 1/4	565	17	432	7 1/4	184	8 1/2	216	5	128	7 3/4	197	1 3/8	35	105	48	140,000	63,504

W13800 is made to order, contact Customer Service for availability.

Never use any H.K. Porter cutters on energized circuits, wire, or cable.

! DANGER

Tips to Easier, Safer Cutting

- a. When heavy cutting is involved, it is less strenuous to hold one handle of the tool on the ground using foot pressure. This permits the cutting force to be applied to the upper handle, makes the cutting position less awkward, and utilizes body weight. This allows more power to be transferred to the cutting edges.
- b. Use the correct cutting tool for the type, size, and hardness of the metal to be cut.
- c. Keep cutter jaws at right angles to piece being cut. Cutting diagonally may twist jaws
- d. Do not twist or pry with tool while cutting.
- e. Do not exceed the full cut on a material whose hardness is unknown. Test hardness with slow pressure to see if material is being cut. The size of the metal you are cutting is not as important as its hardness.
- f. Do not exceed the cutter capacity that is marked on the jaw of the tool or its rating capacity in this catalog.
- g. Keep jaw bolts tight and joints oiled at all times.
- h. Maintain the original jaw bevel angles when sharpening out of line or chip cutting edges.



Safety Do's and Dont's

Wear your gloves and safety glasses at all times!

Do wear safety shoes.

Do remove oil or grease from your hands, from tools and from the floor and area where you will be working.

Do remember that metal flies when cut. The harder the metal, the farther it will fly.

Do warn those in the area when you intend to use a cutter and protect your fellow workers from flying metal.

Do use all tools as recommended.

Don't attempt to use a cutting tool, hand or power, until you fully understand its use.

Don't forget that metals may fly and cause injury.

Don't use cutters for any application except those listed in this catalog.

Don't use H.K. Porter cutters on energized circuits, wire, or cable.

Safety Precautions



Indicates a high probability that death, severe bodily injury or major property damage could result.



Hard metals may snap off or fly through the air when cut. Always wear safety glasses and warn workers nearby to prevent them from being injured from flying metal. To prevent injury from flying metal, take precautions such as wrapping a cloth or rag around the cutting jaws so metal pieces can not fly.



Is serious but less inevitable. There is some probability that death, severe bodily injury or property damage could result.



The "Safety Alert Symbol" symbol to the left is used to call attention to instructions concerning personal safety. Watch for this symbol, it points out important safety precautions. It means: "ATTENTION! Stay alert, personal safety may be in danger!" Read the message that follows this symbol and be alert to the possibility of personal injury or death resulting from misuse.

The use of any industrial tool may present hazards which can result in serious injury or death. The H.K.Porter® tools listed in this catalog are not exceptions to this rule.

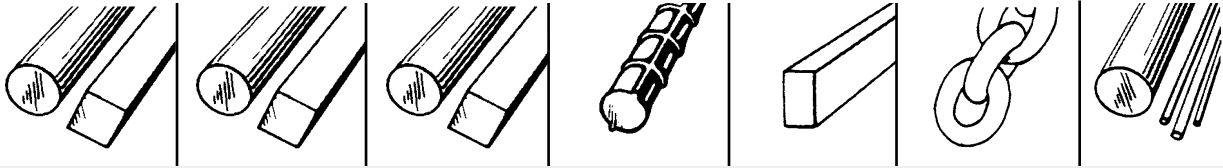


Is less serious but still demands attention. Indicates a hazard which may result in minor injury or property damage.

READ AND UNDERSTAND ALL DIRECTIONS BEFORE OPERATING ANY H.K. PORTER® MANUAL, HYDRAULIC OR PNEUMATIC TOOL

Rod and Bar

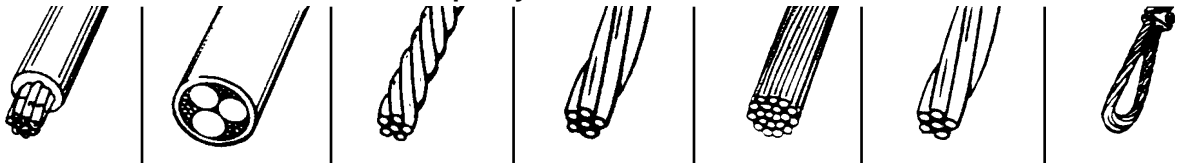
Type and size of material to be cut - Maximum Capacity



Cutter Head Assembly Cat. No.	Steel Low Carbon to 90,000 lb (40,824 kg) Tensile		Steel High Carbon to 130,000 lb (58,968 kg) Tensile		Steel High Alloy to 180,000 lb (81,648 kg) Tensile		Reinforcing Bars to 75,000 lb (34,020 kg) Tensile to Grade 75		Stainless Steel to 180,000 lb (81,648 kg) Tensile to Rockwell 40		Chain High Alloy to 180,000 lb (81,648 kg) Tensile to Rockwell 40		Aluminum Brass Copper Rod Bar	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
W75000	3/4	19	3/4	19	5/8	16	5/8	16	5/8	16	5/8	16	3/4	19
W11800	1 1/8	29	1 1/8	29	1	25	1	25	1	25	1	25	1 1/8	29
W13800	1 3/8	35	1 3/8	35	1 1/4	32	1 1/4	32	1 3/8	35	1 1/8	29	1 3/8	35
W1770A	9/16	14	1/2	13	Do Not Cut		Do Not Cut		Do Not Cut		Do Not Cut		-	-
W1770CD	5/8	16	9/16	14	1/2	13	1/2	13	1/2	13	1/2	13	-	-
W1770TC	-	-	-	-	1/2	13	1/2	13	1/2	13	7/16	11	-	-
9190C	3/8	10	3/8	10	5/16	8	5/16	8	5/16	8	5/16	8	3/8	10
9190NE	3/8	10	3/8	10	-	-	-	-	-	-	-	-	3/8	10
9190A	3/8	10	3/8	10	-	-	-	-	-	-	-	-	3/8	10
9290C	1/2	13	1/2	13	3/8	10	3/8	10	3/8	10	3/8	10	1/2	13
9290NE	1/2	13	1/2	13	-	-	Do Not Cut		Do Not Cut		Do Not Cut		1/2	13
9190E	5/16	8	-	-	-	-	-	-	-	-	-	-	-	-

Cable

Type and size of material to be cut - Maximum Capacity



Cutter Head Assembly Cat. No.	Copper Power Cable		Communication Cable (not self-support)		ACSR and ACAR Cable		Common Guy Strand Cable		Aluminum Power Cable		EHS Guy Strand Cable		Wire Rope Hard Including Stainless	
	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm	Inch	mm
W177089	3	76	3 1/2	89	-	-	-	-	3	76	-	-	-	-
W1770TN	3/4	19	-	-	3/4	19	-	-	3/4	19	-	-	3/4	19
WTC400C	4	102	4	102	-	-	-	-	4	102	-	-	-	-
WRC125	-	-	-	-	-	-	1	25	-	-	3/4	19	1 1/4	32
WRC200	-	-	-	-	-	-	-	-	-	-	-	-	2	51
HRC300	-	-	-	-	-	-	-	-	-	-	-	-	3	76
SC400S	4	101	4	101	-	-	-	-	-	-	-	-	-	-
27842	7/8	22	7/8	22	-	-	-	-	7/8	22	-	-	-	-

DANGER

Never use any H.K. Porter cutters on energized circuits, wire, or cable.

Pump Selection

Cat No.	Material	HKH02 Hand Pump	HKA01 Air/Hydraulic	HKE101A 1/2 HP	HKE201A 1 HP	HKE301A 1 1/2 HP	5 HP T Series	12 1/2 HP M Series
WSR175	1 3/4" ACSR	30 Sec.	15 Sec.	10 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
WSR175	1/2" Common Guy Strand	15 Sec.	10 Sec.	10 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
WSR175	1 3/4" Aluminum Power	30 Sec.	15 Sec.	10 Sec.	6 Sec.	4 Sec.	3-4 Sec.	2-3 Sec.
WSR250	2 1/2" Power Copper Cable	70 Sec.	30 Sec.	20 Sec.	15 Sec.	8 Sec.	2-3 Sec.	1-2 Sec.
WSR250	2 1/2" ACSR	70 Sec.	20 Sec.	20 Sec.	15 Sec.	8 Sec.	2-3 Sec.	1-2 Sec.
WSR250	1/2" Common Guy Strand	70 Sec.	20 Sec.	6 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
WSR250	2 1/2" Aluminum Power	70 Sec.	20 Sec.	6 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
WTC400C	4" Power Cable	50 Sec.	10 Sec.	15 Sec.	7 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.
WTC400C	4" Comm. Cable	45 Sec.	10 Sec.	10 Sec.	7 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.
WTC400C	4" Aluminum	40 Sec.	10 Sec.	10 Sec.	7 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.

Cat No.	Material	HKH02 Hand Pump	HKA01 Air/Hydraulic	HKE101A 1/2 HP	HKE201A 1 HP	HKE301A 1 1/2 HP	5 HP T Series	12 1/2 HP M Series
WRC125	1" Common Guy	35 Sec.	15 Sec.	15 Sec.	6 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
WRC125	3/4" EHS Guy	65 Sec.	10 Sec.	10 Sec.	7 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.
WRC125	1 1/4" Wire Rope	35 Sec.	15 Sec.	15 Sec.	10 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.
WRC200	2" Wire Rope	-	45 Sec.	60 Sec.	35 Sec.	25 Sec.	2-3 Sec.	1-2 Sec.
W11800	1 1/8" Low Carbon Steel	Not Recommended	25 Sec.	25 Sec.	15 Sec.	8 Sec.	2-3 Sec.	1-2 Sec.
W11800	1 1/8" High Carbon Steel	Not Recommended	25 Sec.	25 Sec.	15 Sec.	8 Sec.	2-3 Sec.	1-2 Sec.
W11800	1" High Alloy Steel	Not Recommended	30 Sec.	25 Sec.	15 Sec.	10 Sec.	2-3 Sec.	1-2 Sec.
W11800	1" Stainless Steel	Not Recommended	30 Sec.	25 Sec.	15 Sec.	0 Sec.	2-3 Sec.	1-2 Sec.
W11800	1" Aluminum	Not Recommended	30 Sec.	25 Sec.	15 Sec.	8 Sec.	2-3 Sec.	1-2 Sec.
W13800	1 1/4" High Alloy Steel	Not Recommended	30 Sec.	45 Sec.	30 Sec.	20 Sec.	2-3 Sec.	1-2 Sec.
W13800	1 3/8" Stainless Steel	Not Recommended	Not Recom.	60 Sec.	35 Sec.	20 Sec.	2-3 Sec.	1-2 Sec.
W13800	1 3/8" Low Carbon Steel	Not Recommended	Not Recom.	60 Sec.	35 Sec.	20 Sec.	2-3 Sec.	1-2 Sec.

Cat No.	Material	HKH02 Hand Pump	HKA01 Air/Hydraulic	HKE101A 1/2 HP	HKE201A 1 HP	HKE301A 1 1/2 HP	5 HP T Series	12 1/2 HP M Series
W75000	Low Carbon Steel 3/4" 90,000 Tensile	20 Sec.	10 Sec.	10 Sec.	5 Sec.	3 Sec.	2-3 Sec.	1-2 Sec.
W75000	High Carbon Steel 3/4" 130,000 Tensile	40 Sec.	15 Sec.	Not Recommended		3 Sec.	2-3 Sec.	1-2 Sec.
W75000	5/8" High Alloy 180,000 Tensile	25 Sec.	18 Sec.	10 Sec.	5 Sec.	3 Sec.	3-4 Sec.	2-3 Sec.
W75000	5/8" Rebar	20 Sec.	15 Sec.	7 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
W75000	5/8" Stainless Steel 180,000 Tensile	30 Sec.	18 Sec.	15 Sec.	7 Sec.	3 Sec.	2-3 Sec.	1-2 Sec.
W75000	3/4" Aluminum Rod	30 Sec.	15 Sec.	15 Sec.	5 Sec.	3 Sec.	2-3 Sec.	1-2 Sec.
W1770A	9/16" Low Carbon	25 Sec.	10 Sec.	8 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
W1770A	1/2" High Carbon	30 Sec.	12 Sec.	7 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
W1770CD	5/8" Low Carbon	35 Sec.	10 Sec.	15 Sec.	5 Sec.	3 Sec.	2-3 Sec.	1-2 Sec.
W1770TC	1/2" High Alloy	37 Sec.	10 Sec.	10 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.

Cat No.	Material	HKH02 Hand Pump	HKA01 Air/Hydraulic	HKE101A 1/2 HP	HKE201A 1 HP	HKE301A 1 1/2 HP	5 HP T Series	12 1/2 HP M Series
W1770TC	1/2" Rebar	35 Sec.	10 Sec.	10 Sec.	6 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.
W1770TC	1/2" Stainless Steel	35 Sec.	10 Sec.	10 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
W177089	3" Copper Power Cable	60 Sec.	19 Sec.	15 Sec.	8 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.
W177089	3" Comm. Cable	60 Sec.	19 Sec.	15 Sec.	8 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.
W177089	3" Aluminum Cable	60 Sec.	19 Sec.	15 Sec.	8 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.
WSR175	1 3/4" Power Cable	30 Sec.	15 Sec.	10 Sec.	5 Sec.	4 Sec.	2-3 Sec.	1-2 Sec.
W1770TN	3/4" Wire Rope	35 Sec.	10 Sec.	12 Sec.	8 Sec.	5 Sec.	2-3 Sec.	1-2 Sec.

Never use any H.K. Porter cutters on energized circuits, wire, or cable.



Workhead, Hose and Power Supply Selection

Power Tools and Portable Power Supplies

The most important factor in selecting the right hydraulic cutter for the job is identification of the material to be cut. Consider size, hardness (tensile strength) and type of material. Find material at top of chart on previous pages that is closest to the material to be cut. The correct cutter workhead will be found in the left-hand column under "Catalog Number."

All HKP workheads use only one hose to connect the workhead to the hydraulic pump. Standard hose can be ordered with a control wire for remote control, electric hydraulic pumps. Hoses without control wires are for use with hand, air/hydraulic or gasoline driven pumps.

Selecting the proper hydraulic pump depends on speed required and power source available. Cutting cycle times in table show pump best suited to your requirements. Pumps are available in hand-operated, air, electric or gasoline-driven models.

Power Tool Workheads

A workhead, sold as a unit, consists of the cutterhead, cylinder and control handle. Cutterheads and control handles are also available separately. In addition, the cutterhead and cylinder are sold as a unit for use with an HKP hand pump or air/hydraulic pump. And, in most cases, the cutterhead, cylinder, connecting hose and hand pump are also sold as a complete unit.

WORKHEAD



(For use with any HKP motor-driven hydraulic pump.)
CUTTERHEAD, CYLINDER AND CONTROL HANDLE.
Purchase as unit.

HAND-OPERATED HYDRAULIC CUTTER SYSTEM



HAND PUMP, HOSE, CYLINDER AND CUTTERHEAD.
Purchase as unit.

AUTOMATIC SYSTEM - PORTABLE POWER PACK



(electric/hydraulic pump),
HOSE WITH CONTROL CABLE, AND WORKHEAD.
Purchase components separately.

CUTTERHEAD



Safety Precautions



Hard metals may snap off or fly through the air when cut. Always wear safety glasses and warn workers nearby to prevent them from being injured from flying metal. To prevent injury from flying metal, take precautions such as wrapping a cloth or rag around the cutting jaws so metal pieces can not fly.



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Ordering Replacement Parts

Order replacement parts through your Cooper Tools Distributor. Care should be taken to give accurate information regarding part numbers and descriptions. Include model numbers and serial numbers, as well. Although all parts are available at the factory, we suggest customers stock spare blades, seals, filters and oil for minimum delay in maintaining their units.

Operating Hydraulic Pumps Below -25°F (-31°C)

Unless otherwise requested at time of purchase, all HKP pumps are supplied with a high quality hydraulic oil. Pour point -25°F (-31°C) 150/165 viscosity SSU @ 100°F (38°C). When operating below -25°F, contact Cooper Tools Customer Service for oil recommendation.

Factory Repair Service

HKP units may be returned to factory for repair and reconditioning at any time. A free inspection and estimate of repair charges will be supplied if requested. All returns must be made by prepaid transportation.

Installation Recommendations

IMPORTANT: Electrical connections on cutterhead and hydraulic hose are for low voltage control only. **DO NOT PLUG CONTROL HANDLE INTO MAIN POWER SUPPLY.** The switches and wiring are designed for relay control only.

HE2200 series single phase Power Pack units are factory wired to run in counterclockwise direction and can be plugged into any outlet with proper power supply. Three phase units must be wired into customer's system. Be sure to wire so unit runs counterclockwise.

HKE102A, HKE302A, HKE402A, HKE602B and T5102 Hydraulic Power Sources are supplied in three phase only and can be wired to operate in either direction.

Try to install units so that hoses and wiring are not accessible to damage by fork lifts or other handling equipment.

When installing pumping unit overhead, be sure to have both cutterhead and hoses well below the pump. Do not loop hoses overhead as air pockets will result in slow reaction. Speed of cut should be approximately that indicated on the POWER TOOL SELECTOR CHART. If unit is cutting slower than indicated, **DO NOT ADJUST RELIEF VALVE. THE PRESSURE SETTING WILL NOT AFFECT THE SPEED.**

We recommend checking all connections for leaks, check for voltage drop or contact factory for assistance.

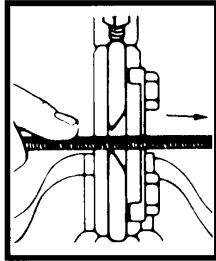
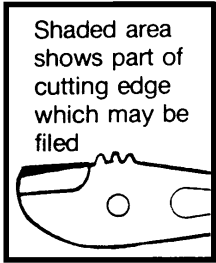
Power Tool Hoses & Accessories

- All HKP hydraulic hoses are made from the finest oil-and abrasion-resistant materials.
- This hose style is also offered in 1/4" or 3/8"
- Hoses are 2-ply rated, reinforced with two braids of high tensile steel wire and covered with oil and weather resistant rubber
- MSHA approved, 2-wire steel braid with 3/8" (10mm) – 18 NPTF fittings
- Order only enough hose to fit your particular application. Using too much hose, slows operator and production
- All control wire hoses come complete with 3-wire, twist-lock connectors for low voltage control only
- Couplings not included with hoses
- Special hoses are available upon request



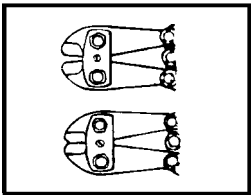
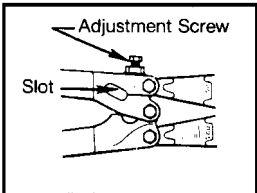
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How to Sharpen Cutter Jaws



- Remove nicks in jaws by filing straight across cutting edges
- On jaws with equal bevels, file equally from each bevel, keep file flat against bevel
- On jaws with one large bevel, file on that bevel, small bevel must also be restored
- Jaws should not be razor sharp
- Approximately 1/64" (.4mm) should remain flat to form strong, durable edge
- Adjust tool according to the instructions below
- To sharpen shear-cut blades (blades that pass each other like scissors) remove nicks by filing straight across cutting edges
- Finish by running a flat file over inner jaw surface to remove burrs

How to Adjust the Cutter Jaws



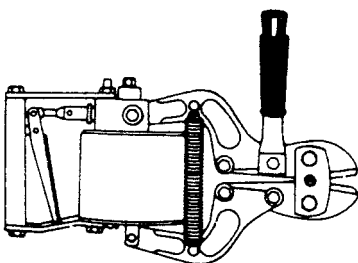
- An adjustment screw is located on the cutter handle above the toggle joints
- If jaw edges are too far apart with handles closed, tighten adjusting screw, this brings cutting edges together
- Cutting edges should be 1/64" (.4mm) apart for longest jaw life
- Oil all joints
- If jaw edges are too close together with the handles apart, loosen adjusting screw until it disappears from the narrow slot in the handle
- Make a cut with the tool in this position (cut will force the slot inward)
- Try to close the handles. If they do not close completely and jaw edges are 1/64" (.4mm) apart, tighten adjusting screw to meet the handle on far side of slot
- Oil all joints
- If jaws are too far apart with handles closed after making cut with adjusting screw backed off, tighten adjusting screw as explained above
- To sharpen shear-cut blades (blades that pass each other, like scissors), remove nicks by filing straight across the cutting edges
- Finish by running a flat file over inner blade surface to remove burrs.

Nicholson® File Recommendations

For Jaw Type	Use File Type
Straight	6", 8" or 10" Mill Bastard
Curved	8", 10" or 12" Half Round Bastard
Straight w/Notch	8", 10" Mill Bastard with one round edge
Notched	8" or 10" Round Bastard

- Choose file size according to size of jaw and/or radius of curve
- Half round files are the most versatile

Pneumatic Tools



- All HKP air-powered tools require ram lateral input supply of 80-120 psi (6-8 kg/cm²)
- 9190 Series: 6.9 CFM or 8 CFM with factor of safety
- 9290 Series: 16.2 CFM or 18.7 CFM with factor of safety

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