9290 Series Pneumatic Cutters

9271	9274	9241	9
9153 		1	
	0		
			JOD
			207
9240			CUTTERHEAD PARTS BELOW 9241
92	246	9266	
Parts for 92	90		1

Part 9164 No. Description 9165 9147 Grip 9170 9150HK Gasket, Valve 9224 9153 Gasket, Valve Cap 9225 9155 Pin, Plunger 9226 9157 Gasket, Valve 9227 9157 Spring, Compression 9228 9158 Plunger, Air Valve 9229 9159 Spring, Plunger 9230 9163 Gasket, Cap Nut 9231

9164	O'ring, Valve Plunger
9165	Screen. Cylinder
9170	Pin, Trigger Link
9173	Valve Plunger Assy.
9224	Lockwasher
9225	Screw, Clevis Adj.
9226	Nut, Clevis Adj. Screw
9227	Stud
9228	Nut, Flexiock
9229	Wiper Ring
9230	Front Head
9231	Rear Head

9232	Bumper Ring
9233	Seal, U-Cup
9234	Gasket
9236	Cap Screw
9237	Rod
9238	Piston
9239	Tube
9240	Cylinder Assy.
9241	Assembly, Arm & Pin
9246	Clevis
9249	Rush Rod
9251	Bracket, Lower
9252	Bracket, Upper
9254	Valve Body
9261	Cap Nut
9262	Bolt
9266	Spring, Extension
9268	Handle, Front
9269	Pin Pivot
9271	Trigger Assy.
9272	Cylinder & Grip Assy.
9274	Valve Body Assy.
1747	Pin, Cotter
2627G	Bolt
2666G	Nut
2666K	Nut
2727	Bolt
2775	Lockwasher
BU0180	Grip Rubber
SM0078	O'ring
330389	O'ring
330703	Plug, Hose Hole

Repair Kit No. R9290

Consists of:

9153	9229
9156	9233
9163	9234
9164	SM0078
9165	330389

Cutterhead Parts For 9290C

Parts for 9290C

Item No	Part No	Description
	9213C	Cutterhead Complete
	9212C	Jaws, Pair
	0224	Cutterhead less Jaws
1	9210C	Jaw, Right
2	9211C	Jaw, Left
3	0221	Strap, Bottom
4	0220	Strap, Top
5	0256	Lockplate
6	0236	Bolt Left Thread
7	0257	Screw, Lockplate
8	0235	Bolt, Right Thread



9290 Series Pneumatic Cutters

9271 9153	9274 9241	8
9240		CUTTERHEAD PARTS BELOW 9241
92	46	9266
Parts for 929)0	I
	0404	Obie Victory Discourse

Part		916
No	Description	916
NO	Description	. 917
9147	Grip	917
9150HK	Cap, Valve	922
9153	Gasket, Valve Cap	922
9155	Pin, Plunger	922
9156	Gasket, Valve	922
9157	Spring, Compression	922
9158	Plunger, Air Valve	922
9159	Spring, Plunger	923
9163	Gasket, Cap Nut	923

9164 9165 9170 9173 9224 9225 9226 9226 9227 9228 9229	. O'ring, Valve Plunger . Screen. Cylinder . Pin, Trigger Link . Valve Plunger Assy. . Lockwasher . Screw, Clevis Adj. . Nut, Clevis Adj. Screw . Stud . Nut, Flexiock . Wiper Ring
9228	. Nut, Flexiock
9229	. Wiper Ring
9230	. Front Head
9231	. Rear Head

9232	Bumper Rina
9233	Seal U-Cup
9234	Gasket
9236	Can Screw
9237	Rod
9238	Piston
9239	Tube
9240	Cylinder Assy
0240	Assembly Arm & Pin
0246	Clevis
0240	Rush Rod
9249	Bracket Lower
0252	Bracket Upper
9252	Value Redu
9204	Con Nut
9201	
9202	Dull Spring Extension
9200	Spring, Extension
9200	
9269	
9271	Trigger Assy.
9272	Cylinder & Grip Assy.
9274	Valve Body Assy.
1/4/	Pin, Cotter
262/G	Bolt
2666G	Nut
2666K	Nut
2727	Bolt
2775	Lockwasher
BU0180	Grip Rubber
SM0078	O'ring
330389	O'ring
330703	Plug, Hose Hole

Repair Kit No. R9290

Consists of:

9153	9229
9156	9233
9163	9234
9164	SM0078
9165	330389

Cutterhead Parts For 9290NE

Parts for 9290NE

Item Part No No Description
9213NE Cutterhead Complete
9212NE Jaws, Pair
0224 Cutterhead less Jaws
1 9210NE Jaw, Right
2 9211NE Jaw, Left
3 0221 Strap, Bottom
4 0220 Strap, Top
5 0256 Lockplate
6 0236 Bolt Left Thread
7 0257 Screw, Lockplate
8 0235 Bolt, Right Thread



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.



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



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.

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

H.K.Porter[®] Cutter Selection

BARS, FLAT	CABLE, PRESTRESSED	🗿 👌 NUT SPLITTING	WIRE, FENCE
BARS, ROUND	CABLE, RUBBER COVERED	PADLOCK HASPS	WIRE, GUY
BARS, SQUARE	CABLE, SOFT, LARGE	PIPE, PVC	WIRE, HOT
BOLTS, RODS, SCREWS,RIVETS	CABLE, STEEL	PLASTIC, FIBER	
CABLE (ACAR)	CHAIN	ROD REINFORCING	WIRE, MESH
CABLE (ACSR)	CHAIN, HARD ALLOY	ROD STRAIGHTENER	WIRE ROPE
CABLE, ALUMINUM	EHS GUY STRAND	STRAPPING STEEL	WIRE SHELVING
	METALS, HARD	TIRE CHAINS	WIRE, SOLID
CABLE, COPPER	METALS, MEDIUM HARD	TRUCK TIRE BEADS	CAUDIO WIRE, SPRING
CABLE, LEAD COVERED	METALS, SOFT	WIRE, BOX BINDING	WIRE, STAINLESS STEEL
CABLE, POWER	NAILS, COTTER PINS		WROUGHT IRON

1. What is the material to be cut? (See above chart)

2. What size is the material to be cut?

Capacities of all hand-operated cutters are shown opposite each catalog listing. Power tool capacities are shown in the Power Tool Selector chart. Do not exceed listed capacities.

3. How hard is the material to be cut?

Many of the materials illustrated in the chart above are made in varying degrees of hardness. The maxmum hard ness ratings that each hand and power tool is designed to cut are shown under each tool in this catalog.

Extra Hard Metals:

Up to Brinell 455/Rockwell C48

Hard Metals:

Up to Brinell 400/Rockwell C42

Medium Hard Metals:

Up to Brinell 300/Rockwell C31

Soft Metals:

Up to Brinell 200/Rockwell C15

4. Will numerous or few cuts be made in a day?

The frequency of cuts to be made should be taken into consideration when choosing a cutter. HKP manufacturers inexpensive hand cutters for light-duty work, heavy-duty cutters for tougher jobs, and hydraulic and pneumatic cutters for extremely hard materials and production cutting.

5. Is speed a factor in the cutting?

Choose the proper cutter to fit the job requirements, whether an occasional cut is called for or fast, continuous, industrial production cutting.

Still not sure?

Send material samples to: Cooper Hand Tools - Sumter Plant Industrial Park

Sumter, SC 29154

Attn: HKP Test Material

NOTE: PROVIDE ANSWERS TO AS MANY OF THE QUESTIONS AS POSSIBLE.

WARNING

- Always wear safety glasses/goggles when cutting.
- Cut in a safe area; consider the safety of others in the immediate area.
- The harder the material being cut, the likelier it is to become airborn during cutting.
- Use tools correctly! (Refer to "Engineering Information" section of this catalog)
- Use the correct tool for the work being performed.
- Maintain tools, power supplies, and hoses in safe working condition.

DANGER Never use energized

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

CUTTERS

H.K.Porter®

Quality Features of H.K. Porter® Cutters



energized circuits, wire, or cable.

Rod and Bar

Type and size of material to be cut - Maximum Capacity

	S.	IJ		IJ	S.	IJ	æ				U	Z		Ŵ
Cutter Head Assembly Cat. Ho.	Steel Low to 90,((40,82 Ten: Rockw Inch	w Carbon DOO Ib 24 kg) alle vell 15 mm	Steel Hig to 130, (58,96 Ten: Rockw Inch	h Carbon 000 lb 18 kg) sile ell 30 mm	Steel Hi to 180, (81,64 Ten: Rockw Inch	gh Alloy 000 lb 18 kg) sile ell 40 mm	Reinford to 75,0 (34,02 Ten: to Gra inch	log Bar: 200 lb 20 kg) sile de 75 mm	Stainles to 180, (81,64 Tensi Rockw Inch	s Steel 000 lb 8 kg) le to ell 40 mm	Chain Hig to 180,0 (81,644 Tensil Rockwe Inch	h Alloy 00 lb 3 kg) e to 11 40 mm	Alumin Bras Copp Roi Bai Inch	num ss ier d r 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
W1770A	9/16	14	1/2	13	Do Not	Cut	Do No	t 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	Do Not	Cut
W1770TC	Do Not	t Cut	Do Not	Cut	1/2	13	1/2	13	1/2	13	7/16	11	Do Not	Cut
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	5/16	8	Do No	t Cut	Do Not	Cut	Do Not	Cut	3/8	10
9190A	3/8	10	3/8	10	Do Not	Cut	Do No	t Cut	Do Not	Cut	Do Not	Cut	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	3/8	10	Do No	t Cut	Do Not	Cut	Do Not	Cut	1/2	13

Cable

Type and size of material to be cut - Maximum Capacity

		\odot	All.			Ø	Ø
Cutter Head Assembly Cat No.	Copper Power Cable Inch mm	Communication Cable (not self- support) inch mm	ACSR and ACAR Cable Inch mm	Common Guy Sirand Cable Inch mm	Aluminum Power Cable Inch mm	EHS Guy Strand Cable Inch mm	Wire Rope Hard Including Stainless Inch mm
W177089	3 76	3 1/2 89	Do Not Cut	Do Not Cut	3 76	Do Not Cut	Do Not Cut
W1770TN	3/4 19	Do Not Cut	3/4 19	Do Not Cut	3/4 19	3/8 10	3/4 19
WTC400C	4 102	4 102	Do Not Cut	Do Not Cut	4 102	Do Not Cut	Do Not Cut
WRC125	Do Not Cut	Do Not Cut	Do Not Cut	1 25	Do Not Cut	3/4 19	1 1/4 32
WRC200	Do Not Cut	Do Not Cut	Do Not Cut	Do Not Cut	Do Not Cut	Do Not Cut	2 51
HRC300	Do Not Cut	Do Not Cut	Do Not Cut	Do Not Cut	Do Not Cut	Do Not Cut	3 76
27842	7/8 22	7/8 22	Do Not Cut	Do Not Cut	7/8 22	Do Not Cut	Do Not Cut



Pump Selection

Cal No.	Material	HKHO2 Hand Pump	HKAO1 Air/Hydraulic	HKE0501A 1/2 HP	HKE075 Serie: 3/4 HP	HKE150 Series 1 1/2 HP	HKE500 Series 5 HP
WTC400C	4" Power Cable	50 Sec.	10 Sec.	15 Sec.	9 Sec.	5 Sec.	2-3 Sec.
WTC400C	4" Comm. Cable	45 Sec.	10 Sec.	10 Sec.	9 Sec.	5 Sec.	2-3 Sec.
WTC400C	4" Aluminum	40 Sec.	10 Sec.	10 Sec.	9 Sec.	5 Sec.	2-3 Sec.
Cat Ho.	Material	HKHO2 Haud Pump	HKA01 Air/Hydraulic	HKE0501A 1/2 HP	HKE075 Series 3/4 HP	HKE150 Series 1 1/2 HP	HKE500 Series 5 HP
Cat No. WRC125	Material 1° Common Guy	HKHO2 Hand Pump 35 Sec.	HKA01 Air/Hydraulic 15 Sec.	HKE0501A 1/2 HP 15 Sec.	HKE075 Serie: 3/4 HP 8 Sec.	HKE150 Series 1 1/2 HP 4 Sec.	HKE500 Series 5 HP 2-3 Sec.

WRC125	1 1/4" Wire Rope	35 Sec.	15 Sec.	15 Sec.	12 Sec.	5 Sec.	2-3 Sec.
WRC200	2" Wire Rope	-	45 Sec.	60 Sec.	40 Sec.	25 Sec.	2-3 Sec.
W11800	1 1/8" Low Carbon Steel	Not Recommended	25 Sec.	25 Sec.	19 Sec.	8 Sec.	2-3 Sec.
W11800	1 1/8" High Carbon Steel	Not Recommended	25 Sec.	25 Sec.	19 Sec.	8 Sec.	2-3 Sec.
W11800	1" High Alloy Steel	Not Recommended	30 Sec.	25 Sec.	19 Sec.	10 Sec.	2-3 Sec.
W11800	1" Stainless Steel	Not Recommended	30 Sec.	25 Sec.	19 Sec.	0 Sec.	2-3 Sec.
W11800	1" Aluminum	Not Recommended	30 Sec.	25 Sec.	19 Sec.	8 Sec.	2-3 Sec.

Cat No.	Material	HKHO2 Haud Pump	HKA01 Air/Hydraulic	HKE0501A 1/2 HP	HKE075 Serie: 3/4 HP	HKE150 Series 1 1/2 HP	HKE500 Series 5 HP
W75000	Low Carbon Steel 3/4" 90,000 Tensile	20 Sec.	10 Sec.	10 Sec.	7 Sec.	3 Sec.	2-3 Sec.
W75000	HighCarbon Steel 3/4" 130,000 Tensile	40 Sec.	15 Sec.	Not Recommen	ded	3 Sec.	2-3 Sec.
W75000	5/8" High Alloy 180,000 Tensile	25 Sec.	18 Sec.	10 Sec.	7 Sec.	3 Sec.	3-4 Sec.
W75000	5/8" Rebar	20 Sec.	15 Sec.	7 Sec.	7 Sec.	4 Sec.	2-3 Sec.
W75000	5/8" Stainless Steel 180,000 Tensile	30 Sec.	18 Sec.	15 Sec.	9 Sec.	3 Sec.	2-3 Sec.
W75000	3/4" Aluminum Rod	30 Sec.	15 Sec.	15 Sec.	7 Sec.	3 Sec.	2-3 Sec.
W1770A	9/16" Low Carbon	25 Sec.	10 Sec.	8 Sec.	7 Sec.	4 Sec.	2-3 Sec.
W1770A	1/2" High Carbon	30 Sec.	12 Sec.	7 Sec.	7 Sec.	4 Sec.	2-3 Sec.
W1770CD	5/8" Low Carbon	35 Sec.	10 Sec.	15 Sec.	7 Sec.	3 Sec.	2-3 Sec.
W1770TC	1/2" High Alloy	37 Sec.	10 Sec.	10 Sec.	7 Sec.	4 Sec.	2-3 Sec.

Cat No.	Material	HKH02 Hand Pump	HKAO1 Air/Hydraulic	HKE0501A 1/2 HP	HKE075 Serie: 3/4 HP	HKE150 Series 1 1/2 HP	HKE500 Series 5 HP
W1770TC	1/2" Rebar	35 Sec.	10 Sec.	10 Sec.	8 Sec.	5 Sec.	2-3 Sec.
W1770TC	1/2" Stainless Steel	35 Sec.	10 Sec.	10 Sec.	7 Sec.	4 Sec.	2-3 Sec.
W177069	3" Copper Power Cable	60 Sec.	19 Sec.	15 Sec.	10 Sec.	5 Sec.	2-3 Sec.
W177089	3" Comm. Cable	60 Sec.	19 Sec.	15 Sec.	10 Sec.	5 Sec.	2-3 Sec.
W177069	3" Aluminum Cable	60 Sec.	19 Sec.	15 Sec.	10 Sec.	5 Sec.	2-3 Sec.
W1770TN	3/4" Wire Rope	35 Sec.	10 Sec.	12 Sec.	10 Sec.	5 Sec.	2-3 Sec.



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.

CUT TERHEAD





AUTOMATIC SYSTEM -PORTABLE POWER PACK

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

Safety Precautions



Hard metals may snap off or fly through the air when cut. Always wear safety glasses and warn others nearby to prevent injury from flying metal. To prevent injury from flying metal, take precautions such as wrapping a cloth or rag around the cutting jaws.

	A WARNING	AVERTISSEMENT	ADVERTENCIA
0	Risk (Y Eye Injury	Risque de don mages d'oell	Riesge de lection del nju
	Wear ANSI Approved	Protection d'oell approuvée	Protección de nju aprobada
	Eye Protection	de l'usage A.N.S.L	del desgaste ANSI

H.K.Porter[®] 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 to 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



H.K.Porter[®] 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

