

# Key Driver

## PNEUMATIC HAMMER



KD-10 X 40



KD-10 X 30



### Applications

- Forge Shop Work Aid
- Driving Sow Block & Die Keys

### Capacities

KD-30

- 3840 ft\*lb. @ 90 PSIG

KD-40

- 6600 ft\*lb. @ 90 PSIG

### Features

- Remote Operation
- Fork Lift Mounted
- Forged Restraining Lugs
- Cast Iron Inertia Block
- Alloy Forged Steel Ram
- Composite Piston / Support Rings
- Bronze Ram Rod Bushing
- Adjustable Blow Force
- Throttled Return Speed
- Onboard Pneumatic System
- Regulator - Lubricator - Filter
- ASME Air Pressure Tank
- Large Ported Valves
- Condensation Drains
- Shut off / Exhaust Valves
- Optional Spare Parts Package
- Operations Manual
- Ready To Run On Delivery

### Complete Repair Services

## Application

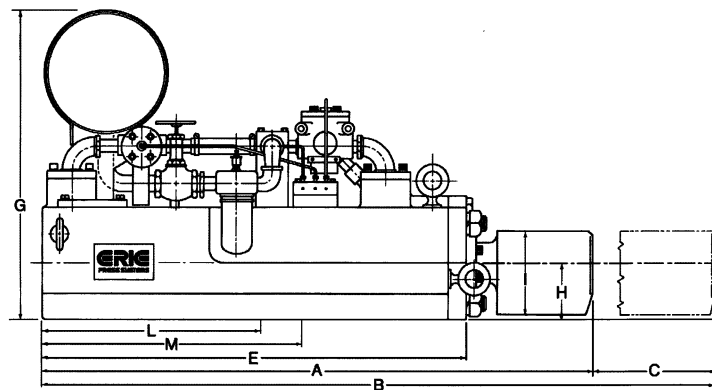
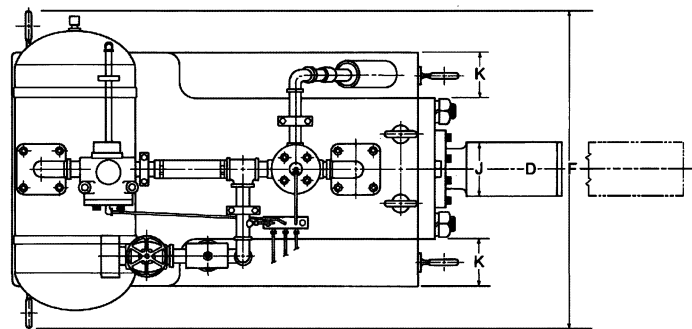
The ERIE KeyDriver is a remotely operated horizontal pneumatic hammer. It is designed to aid in forging shop equipment work such as driving sow block and die keys. It is used to replace sledge hammers, manual rams and small hand held pneumatic drivers.

## Features

The ERIE KeyDriver is designed to be primarily fork lift mounted which allows for accurate alignment. Easy to use hand held lever operating valve allows for more remote operation and features a spring centered return. Large ported valves open and exhaust quickly for fast operation. The heavy duty inertia block is constructed from high strength cast iron. Replaceable bronze rod bushing and packing with carbon / graphite rings support the ram and piston providing low friction travel. Blow force can be controlled by regulating the onboard ASME code air tank pressure. Automatic air lubricator, condensation separator, filter, drains and shut off valves assure trouble free operation. The KeyDriver is shipped completely assembled ready to connect to the plant air system.

## Operation

The system consists primarily of two pneumatic pilot operated three-way valves and one lever operated pneumatic four-way valve. The larger three-way valves are used to allow compressed air to flow to the piston and rod side of the cylinder during the operation. The lever operated control valve is equipped with three hoses. The hoses connect to the air supply and to the pilot connections in each of the two three-way valves. The lever operated valve is spring centered so that if the operator releases the handle, keydriver motion will stop. Moving the lever down directs pilot air to the head-side three-way valve which opens the valve and admits air into the piston head area. The valve on the rod side of the cylinder is normally open to exhaust at this time and the keydriver extends. Lifting the lever admits air to the rod side of the cylinder affecting the retraction stroke. The three-way valve on the head side is normally open to exhaust allowing the keydriver to retract. The valves will fully open or fully close in response to the signal from the lever operated valve. The speed control on the unit is accomplished by means of the regulator which can be adjusted to suit speed requirements.



SPECIFICATIONS *		KD-10 X 30	KD-10 X 40
<b>THEORETICAL</b>	ft•lb. @ 90 PSIG	3840	6600
<b>BLOW ENERGY</b>	kJoule @ (kn @ 6 bar)	17.1	29.4
<b>STROKE (C)</b>	in. (cm.)	30 (76)	40 (102)
<b>CYLINDER BORE</b>	in. (cm.)	10 (25)	10 (25)
<b>OVERALL LENGTH</b>	Retracted (A)	69-1/4 (176)	81 (206)
	Extended (B)	99-1/4 (252)	121 (307)
<b>BODY LENGTH (E)</b>	in. (cm.)	56-1/2 (144)	66-1/2 (169)
<b>WIDTH (F)</b>	in. (cm.)	42-1/2 (108)	42-1/2 (108)
<b>OVERALL HEIGHT (G)</b>	in. (cm.)	46 (117)	46 (117)
<b>HEIGHT OF CENTERLINE (H)</b>	in. (cm.)	8-1/2 (22)	8-1/2 (22)
<b>RAM FACE</b>	Height (I)	10 (25)	10 (25)
	Width (J)	7 (18)	7 (18)
<b>CENTER OF GRAVITY</b>	Retracted (L)	26-3/8 (67)	31 (79)
	Extended (M)	30-3/8 (77)	36 (91)
<b>FORKLIFT OPENINGS (K)</b>	in. (cm.)	7-1/2 (19)	7-1/2 (19)
<b>WEIGHT</b>	lbs. (kgs.)	4525 (2053)	6672 (3026)

### Note:

Working pressures: 125 PSIG (9 bar) maximum  
40 PSIG (3 bar) minimum

Photos and drawing are for reference only and are not intended to show or suggest methods of operations or the non use of safety devices or guarding.

\* Specifications subject to change without notice.



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