



## Adjustable Head Construction Wrench



Versatile wrench fits all nuts and bolts to 1 1/2" (38.1 mm). Eliminates the need for carrying several fixed-size wrenches. Drop-forged from select alloy steel with continuous taper handle. Industrial black finish.

Cat. No.	Max. Size Capacity	Length
3239	1 1/2" (38.1 mm)	15" (38 cm)

## 1/2" Drive Ratcheting Construction Wrench



Accepts 1/2" square-drive hex socket. Reversible ratchet. Eliminates the need for carrying several fixed-size wrenches. Drop-forged from select alloy steel with continuous taper handle for aligning bolt holes. Industrial black finish.

Cat. No.	Overall Length
3238	15" (38 cm)

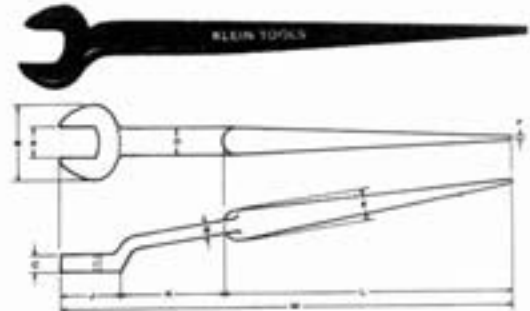
## Drilling Hammer



Extra-heavy, drop-forged steel head, hardened and tempered. Short handle for working in close quarters. Select hickory handle, triple wedged and lacquered. Special process removes moisture from handle and replaces it with oil to eliminate effects of extreme temperatures.

Cat. No.	Head Weight	Overall Length
823-48	48 oz. (1361 g)	10 1/4" (273 mm)
848	Hickory Replacement Handle.	

## Erection Wrenches



Drop-forged from select alloy steel to withstand high-leverage and heavy loads. Extra-heavy-duty head area gives maximum strength and durability. Wrench handle features an extra-deep offset to provide additional hand-clearance without sacrificing tightening power. Continuous taper of handle makes lining-up bolt holes easy, allows use on a range of bolt-hole sizes without binding. Extra-large hub area allows use on larger diameter holes than possible with most other wrenches. Available in heavy, regular and utility nut sizes. Catalog number, bolt size and nominal opening size are stamped on every wrench for easy identification.

Cat. No.	Nut Type	Bolt Size	Nominal Opening	Length
3210	U.S. Heavy	1/2"	1 1/4"	14 1/2"
3211	U.S. Heavy	3/4"	1 1/2"	14 1/2"
3212	U.S. Heavy	1"	1 3/4"	16 1/2"
3213	U.S. Heavy	1 1/4"	1 3/4"	17 1/2"
3214	U.S. Heavy	1"	1 3/4"	17 1/2"
3220	U.S. Regular	1/2"	1 1/4"	14 1/2"
3221	U.S. Regular	3/4"	1"	14 1/2"
3222	U.S. Regular	1/2"	1 1/4"	16 1/2"
3223	U.S. Regular	3/4"	1 1/4"	17 1/2"
3224	U.S. Regular	1"	1 1/2"	17 1/2"
3231	Utility	3/4"	1 1/4"	14 1/2"
3232	Utility	1/2"	1 1/4"	16 1/2"

Bolt Size	A Nominal Opening		
	U.S. Heavy	U.S. Reg.	Utility
1/2	H 3/4	R 1 1/4	U 1 1/4
5/8	H 1 1/4	R 1 1/2	U 1 3/4
3/4	H 1 1/2	R 1 3/4	U 1 3/4
7/8	H 1 3/4	R 2	U 2
1	H 2	R 2 1/4	U 2 1/4

Bolt Size	B C D E F G J K L M										
	1/2	1 1/4	3/4	3/4	3/4	3/4	3/4	1 1/4	3	7 1/4	12
5/8	2 1/4	1 1/4	1 1/4	1 1/4	1 1/4	1 1/4	2 1/4	3	10	14 1/4	
3/4	2 1/2	1 1/2	1 1/2	1 1/2	1 1/2	1 1/2	2 1/2	4	11	16 1/2	
7/8	3 1/4	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	2 3/4	4	11	17 1/2	
1	3 1/2	1 3/4	1 3/4	1 3/4	1 3/4	1 3/4	2 3/4	4	11	17 1/2	

All dimensions in inches.