

TOOLS UNLIMITED

PRESENTS

A PREMIUM HAND TOOL LINE

EQUIVELANT TO

PROTO SK ARMSTRONG

But WITHOUT THE HIGH PRICE

URREA

PROFESSIONAL TOOLS

URREA

STRIKING TOOLS

SLEDGE HAMMERS



DEAD BLOW HAMMERS



SPECIAL HAMMERS



BALL PEIN HAMMERS



AUTO BODY HAMMERS



HOLLOW PUNCHES



CHISELS, PUNCHES AND NAIL SETS



ALIGNMENT BARS



URREA striking tools are used for direct striking (Hammers and Mallets) and indirect striking (Chisels, Punches and Nail Sets). In conjunction, they are particularly useful in industry (machinery, assembly lines, maintenance) and automotive service (engines, bodywork, tires).

Aside from traditional fitter's or ball hammers, striking tools include hammers specifically designed to avoid distorting, marking or damaging the parts subject to striking, or to avoid producing sparks, which are useful in explosive environments. The materials used in these types of hammers are brass, plastic and rubber.

There are also hammers designed specifically for the automotive laminating service, which are shaped to match automobile bodywork styles.

Striking tools include tools designed for cutting or breaking materials, for marking, for helping to center bits and for installing or removing bolts and rivets. The latter type includes tools made of steel or brass for when it is necessary to avoid marking or damaging the materials.

Also presented in this chapter are HOLLOW PUNCHES, useful tools for perforating or manufacturing rubber washers or any materials used for packing, and alignment bars designed to facilitate the alignment or disassembly of machinery components.

URREA striking tools

- Offer a wide variety of quality products including more than 140 items:
 - Brass and steel hammers
 - Mechanic's ball hammers
 - Dead blow hammers
 - Interchangeable cap hammers
 - Special plastic or rubber cap hammers
 - Engraver's hammers
 - Chisels
 - Punches, in steel or brass configuration
 - Punches and nail sets
 - HOLLOW PUNCHES
 - Alignment bars
- They are grouped and combined in more than 23 sets presented in practical organizers such as plastic boxes and vinyl cases, which allow them to be transported and kept organized.
- Hammer heads are manufactured from various materials such as: high quality brass, plastic injection, high impact rubber, high strength micro-alloyed steel; hot forged, machined with high precision and heat treated to provide the best combination of hardness and resistance to blows.

- All URREA striking tools have a natural lacquer or paint finish to protect them from corrosion, and in the case of FOD applications (Foreign Object Debris), we recommended using striking tools with blued finish to prevent the loss of coating particles.



- Comply with national and international, American and European standards.
- The image of quality is reinforced by stamping each tool permanently and indelibly with the country of origin. This country of origin stamp complies with the regulations of the Federal Trade Commission of the United States of America.

The information presented in this section is organized as follows:

- **Technical standards**
- **Manufacturing process**
- **Quick selection guide**
- **Detailed product specifications**
- **Safety recommendations**

URREA manufactures tools in accordance with product technical standards.

A product technical standard is a document that specifies basic design and manufacturing guidelines to ensure the adequate performance of products under the conditions required by users, and which are issued by private or government organizations and associations.

The only organization to issue international standards is known as ISO (International Organization for Standardization), which develops the ISO 9000 series regarding quality systems, but it also issues product technical standards. In the United States, there are several organizations that issue or have issued standards, such as GSA/US FEDERAL, ASME and ANSI.

The Federal standards for hand tools are no longer being updated and are being taken over by ASME, and the same thing is occurring with standards that used to be issued by ANSI.

Currently, ASME standards for hand tools are initially reviewed by committees made up of different tool manufacturers, users and marketers, and subsequently approved and issued by ASME.

In Europe, the DIN (Deutsches Institut für Normung e.V. – German Standardization Institute) encompasses various organizations and commissions dedicated to promoting the standardization and quality of products marketed in Germany.

STANDARDS APPLICABLE TO SLEDGES, MALLETS AND HAMMERS

B107.53M, 1998 B173.2, 1985	“Ball Peen Hammers: Safety Requirements” “Ball Peen Hammers: Safety Requirements”

	Deutsches Institut für Normung e.V.
DIN7462: 1970-05 DIN7482: 1966-11 DIN5130: 1974-02	“Wooden hammers” “Wooden handles for eyed wood bits” “Copper hammers”

GGG-H-86-C	“Hammer (Forged steel head)”

STANDARDS APPLICABLE TO CHISELS, PUNCHES AND NAIL SETS

B107.50M, 1998 B107.47M, 1998 B107.45M; 1998 B209.1, 1991 B209.2, 1991	“Brick chisels and brick sets: safety requirements” “Metal chisels: safety requirements” “Ripping chisels and flooring/electricians’ chisels: safety Requirements” “Metal chisels: safety requirements” “Metal Punches and Drift Pins Safety Requirements”

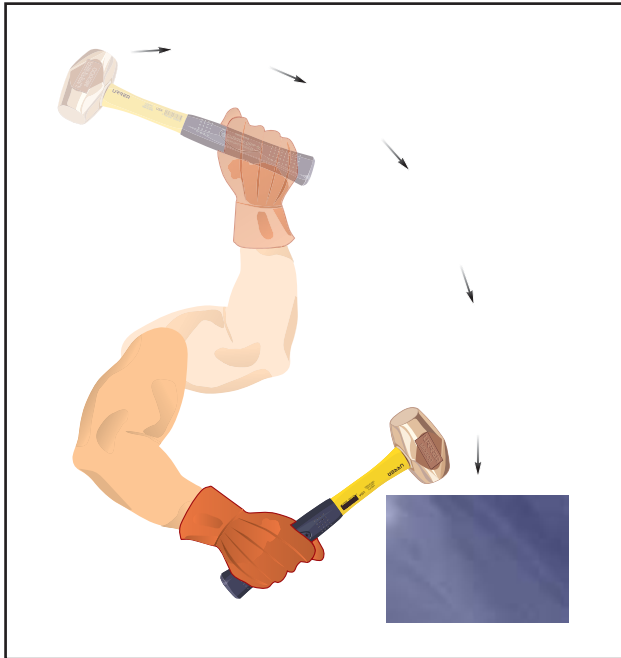
	Deutsches Institut für Normung e.V.
DIN5138: 1973-03 DIN5139: 1973-03 DIN5143: 1973-03 DIN5154: 1973-03 DIN5155: 1973-03 DIN6450: 1984-11 DIN6451: 1985-01 DIN6455: 1984-11 DIN6458: 1984-11 DIN7200: 1968-03 DIN7250: 1984-11 DIN7254: 1984-11 DIN7255: 1984-11 DIN7256: 1984-11	“Chisel Handles” “Firmer chisels with tang” “Mortise chisel” “Chisels; technical specifications” “Chisels; denominations” “Pin punches” “Cape chisels” “Flat chisels” “Grooving chisels” “Drift punches” “Hollow punches” “Center punches” “Mason chisels” “Engineers’ cold chisels and allied tools; technical specifications” “Pointed chisels”

GGG-C-313C GGG-C-330C GGG-B-101E GGG-P-831E GGG-P-833A	“Chisels, hand: cape, diamond point, cold, round nose and side Cutting” “Chisels. Tools blanks, Caltiking Tools and metal-forming Tools, Power Hammer” “Bars, Chisel, Pinch, Pry, Wrecking; digging; tamp-Ing, Digging, And Crowbars” “Punches; Center, coopers, drive pin, Aligning, and prick” “Punches, Cutting”



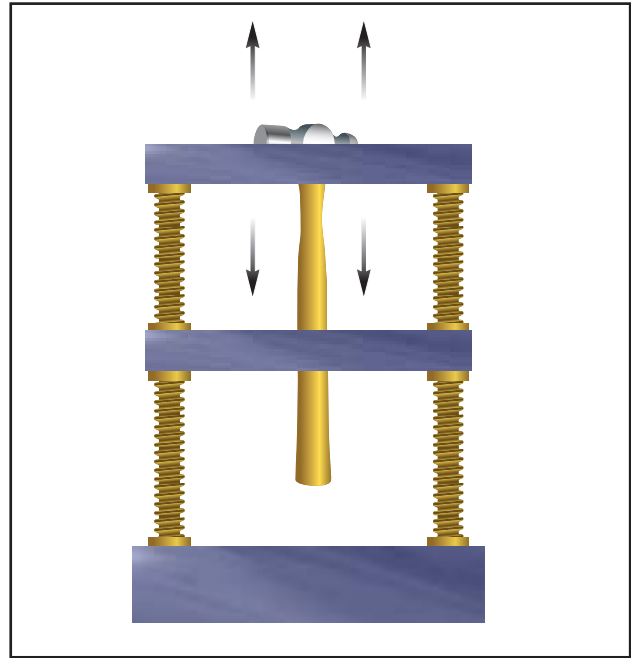
STRIKING AND STRESS TESTS FOR SLEDGES, MALLETS AND HAMMERS ASME/ANSI STANDARDS B 173.1, B 173.2, B 173.3 AND B 173.5

STRIKING TESTS



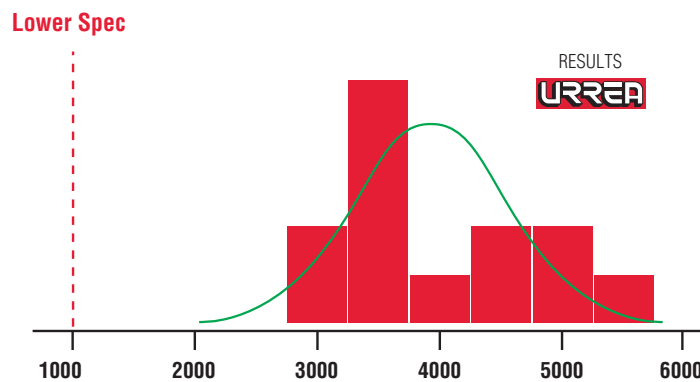
This test consists of using the sledge, mallet or hammer to strike a block of steel with a general hardness of 92 to 105° RC a predetermined number of times without the striking faces becoming marked, cracked, distorted or showing any indications of failure.

STRESS TESTING DEVICE

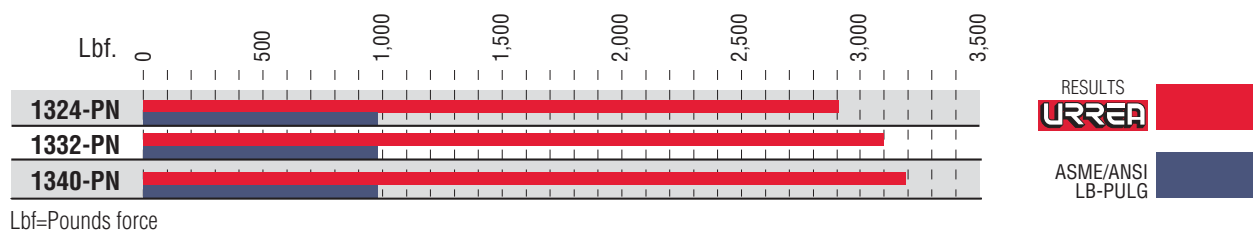


After the striking test, the stress test is performed, which consists of applying a specific parallel force to the handle without it separating from the head.

STRESS RESULTS SLEDGES AND HAMMERS



BALL HAMMER STRESS PERFORMANCE

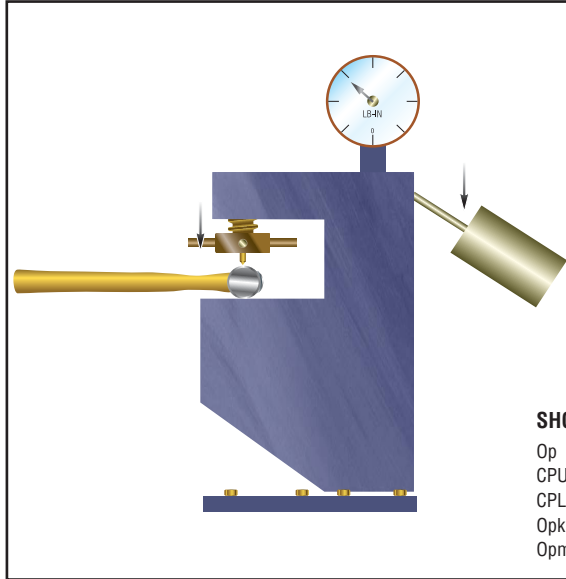


Lbf=Pounds force

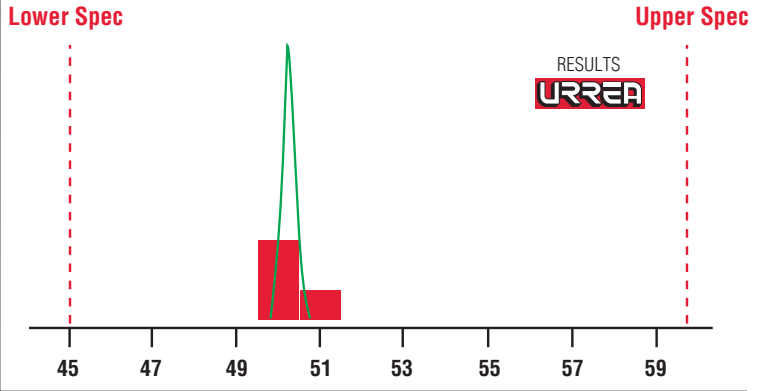
HARDNESS TESTS FOR SLEDGES, MALLETS AND HAMMERS – ASTM STANDARD E18

A Rockwell hardness tester with a diamond point is used, wherein a load is applied perpendicular to the testing surface. The test result depends directly on penetration of the diamond point into the test piece (in accordance with ASTM E 18).

PRESS FOR HARDNESS TEST



STATISTICAL TEST OF HARDNESS READINGS TAKEN FROM URREA HAMMERS PRESS FOR HARDNESS TEST



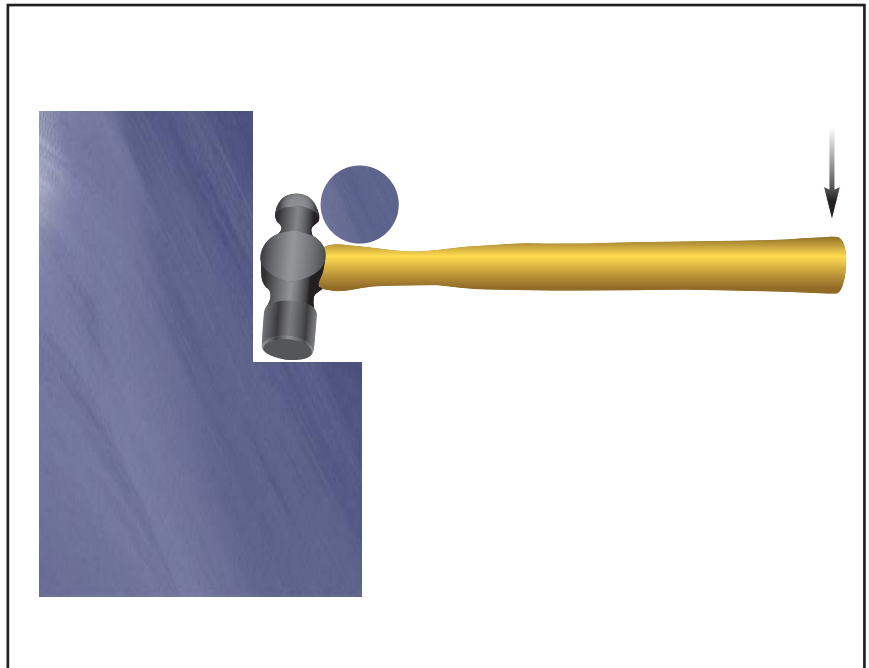
SHORT-TERM CAPABILITY

Op	16.92	Targ	*	Mean	50.2800	%>USL Exp	0.00	PPM>USL Exp	0
CPU	21.93	USL	60.000	Mean+3s	50.7233	Obs	0.00	Obs	0
CPL	11.91	LSL	45.000	Mean-3s	49.8367	%<LSL Exp	0.00	PPM<LSL Exp	0
Opk	11.91	k	0.296	s	0.1478	Obs	0.00	Obs	0
Opm	*	n	25.000						

BENDING TESTS FOR SLEDGES, MALLETS AND HAMMERS - ASME/ANSI STANDARDS B 173.1, B 173.2, B 173.3 AND B 173.5

10

BENDING TEST



The bending test consists of firmly fastening the hammer by the side of the head, leaving the handle free and perpendicular to the fastened portion. In a specially designed device, one of the striking faces is pointed downward and a load is applied to the grip area of the handle 10" from the most distant portion of the head.

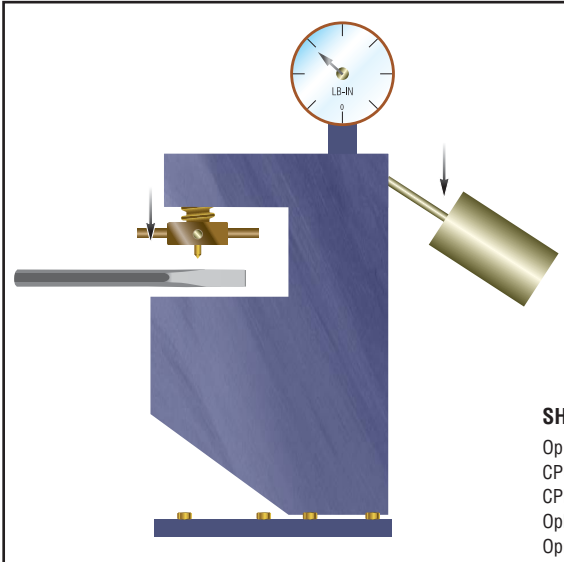
The sledge or hammer should resist this test without breaking or splintering.

HARDNESS TESTS FOR CHISELS, PUNCHES AND NAIL SETS – ASTM STANDARD 18

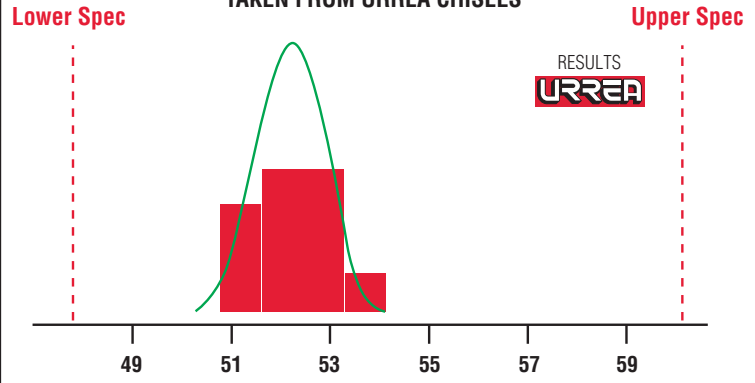
The hardness test should be performed on both the striking end and the cutting end. A Rockwell hardness tester with a diamond point is used for this purpose, wherein a load is applied perpendicular to the test surface. The results depend directly on penetration of the diamond point into the test piece (in accordance with ASTM E 18).

The hardness of the cutting end should be measured no less than 1/4" from the cutting edge.

HARDNESS TEST



STATISTICAL TEST OF HARDNESS READINGS TAKEN FROM URREA CHISELS



SHORT-TERM CAPABILITY

Op	2.76	Targ	*	Mean	52.2500	%>USL Exp	0.00	PPM>USL Exp	0
CPU	3.56	USL	60.0000	Mean+3s	54.4260	Obs	0.00	Obs	0
CPL	1.95	LSL	48.0000	Mean-3s	50.0740	%<LSL Exp	0.00	PPM<LSL Exp	0
Opk	1.95	k	0.2917	s	0.7253	Obs	0.00	Obs	0
Opm	*	n	12.0000						

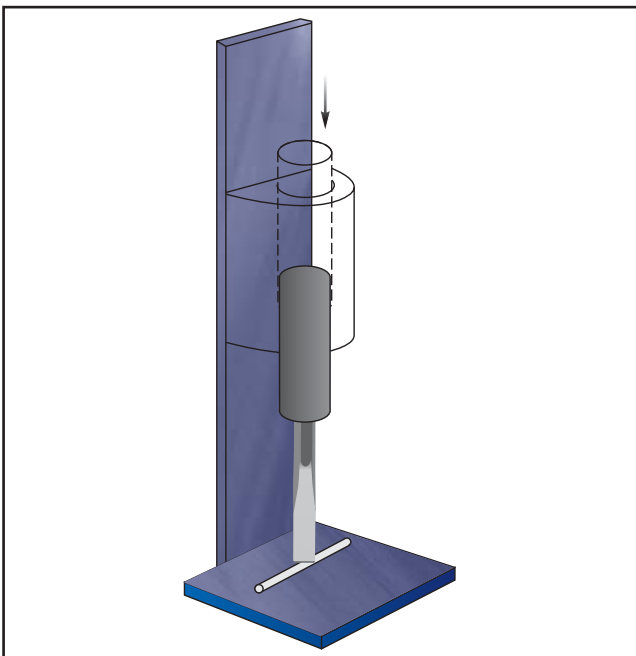
IMPACT TESTS FOR CHISELS

The chisel should be mounted vertically over a 1/4" diameter bar and the chisel cutting line should be at a 90° angle to the centerline of the bar. The bar should rest on a block of steel weighing at least 200 lb (91 Kg) with a minimum hardness of 35° Rc. The chisel is struck with a weight determined by its size. The weight should be steel with a hardness of 45-60° Rc. After repeating the impact 20 times, the chisel should have no visible splintering, cracking or signs of failure.

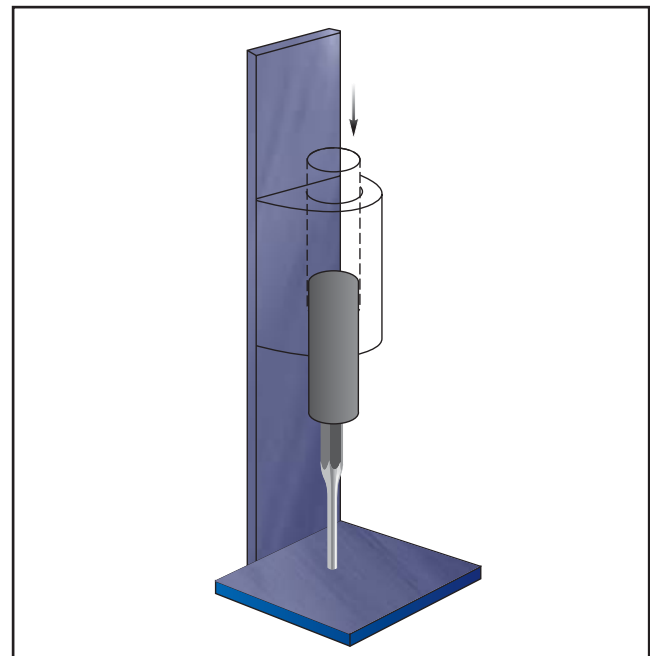
IMPACT TESTS FOR NAIL SETS

The nail set should be mounted vertically over a steel plate 1/4" thick with a hardness of 45 to 50° Rc. The plate should rest on a block of steel weighing at least 200 lb (91 Kg) with a minimum hardness of 35° Rc. The nail set is struck with a weight determined by its size. The weight should be steel with a hardness of 45-60° Rc. After repeating the impact 20 times, the nail set should have no visible splintering, cracking or signs of failure.

CHISEL IMPACT TEST



NAIL SET IMPACT TEST





1.- Receiving steel



2.- Cutting



3.- Forging and cutting



4.- Heat treatment



5.- Marking



6.- Polishing



7.- Assembly of head and end



8.- Trimming excess from end



9.- Shaping the wedge

10



10.- End and edge polishing



11.- Varnish


**1.- Raw material****2.- Cutting****3.- Beveling****4.- Shaping the blade****5.- Marking****6.- Hardening****7.- Annealing****8.- Cleaning****9.- Bluing****10.- Polishing sides****11.- Polishing edges****12.- Polishing blade**

STRIKING TOOLS




CODE	HEAD WEIGHT	SLEDGES HAMMERS				DEAD BLOW				CAPS		RUBBER	BALL HAMMERS				
		468	468	BRASS		470	470	470	471	471	PLASTIC	RUBBER	474	474	475	475	476
1433G	2 LBS	●															
1434G	3 LBS	●															
1435G	4 LBS	●															
1436G	6 LBS	●															
1437G	8 LBS	●															
1438G	10 LBS	●															
1439G	12 LBS	●															
1440G	16 LBS	●															
UH71FG	7.5 LBS		●														
UH72FG	10 LBS		●														
UH73FG	15 LBS		●														
1430FV	29 OZ.			●													
1432FV	62 OZ.			●													
1430	29 OZ.				●												
1432	62 OZ.				●												
*SF150HK	16 OZ. (SET)					●											
SF150	16 OZ.						●										
1434PDB	16 OZ.							●									
1435PDB	24 OZ.							●									
1430DBX	32 OZ.								●								
1430DB	38 OZ.									●							
1432DB	48 OZ.										●						
1383	13 OZ.											●					
1364	13 OZ.												●				
1366	8 OZ.													●			
1367	16 OZ.													●			
1368	22 OZ.													●			
1308FV	8 OZ.														●		
1312FV	12 OZ.														●		
1316FV	16 OZ.														●		
1324FV	24 OZ.														●		
1332FV	32 OZ.														●		
1340FV	40 OZ.														●		
1308P	8 OZ.															●	
1312P	12 OZ.															●	
1316P	16 OZ.															●	
1324P	24 OZ.															●	
1332P	32 OZ.															●	
1340P	40 OZ.															●	
1324E	24 OZ.																●
1332E	32 OZ.																●
1308PN	8 OZ.																●
1312PN	12 OZ.																●
1316PN	16 OZ.																●
1324PN	24 OZ.																●
1332PN	32 OZ.																●
1340PN	40 OZ.																●
1421	13 OZ.																●
1428	16 OZ.																●
1424	16 OZ.																●
1427	16 OZ.																●

STRIKING TOOLS




CODE	SIZE	PUNCHES						CHISELS
		483	90° center punches	50° prick punches	484	485	486	
49920	1/2"	●						
49922	3/4"	●						
41-1/4	1/4"		●					
41-5/16	5/16"		●					
41-3/8	3/8"		●					
41-7/16	7/16"		●					
41-1/2	1/2"		●					
41-5/8	5/8"		●					
44-1/4	1/4"			●				
44-5/16	5/16"			●				
44-3/8	3/8"			●				
47-1/4x1/16	1/4" x 1/16"				●			
47-1/4x3/32	1/4" x 3/32"				●			
47-5/16x1/8	5/16" x 1/8"				●			
47-5/16x5/32	5/16" x 5/32"				●			
47-3/8x3/16	3/8" x 3/16"				●			
47-7/16x7/32	7/16" x 7/32"				●			
47-1/2x1/4	1/2" x 1/4"				●			
48-3/8" x 5/32"	3/8" x 5/32"					●		
48-3/8" x 3/16"	3/8" x 3/16"					●		
48-7/16" x 7/32"	7/16" x 7/32"					●		
48-1/2" x 1/4"	1/2" x 1/4"					●		
48-1/2" x 5/16"	1/2" x 5/16"					●		
96-1/4	1/4"						●	
96-5/16	5/16"						●	
96-3/8	3/8"						●	
96-7/16	7/16"						●	
96-1/2	1/2"						●	
96-5/8	5/8"						●	
96-3/4	3/4"						●	
50-3/16	3/16"							●
50-1/4	1/4"							●
50-5/16	5/16"							●
50-3/8	3/8"							●
50-7/16	7/16"							●
50-1/2	1/2"							●
86A-3/16	3/16"							●
86A-1/4	1/4"							●
86A-5/16	5/16"							●
86A-3/8	3/8"							●
86A-7/16	7/16"							●
86A-1/2	1/2"							●
86A-5/8	5/8"							●
86A-3/4X8	3/4" X 8"							●
86A-3/4X12	3/4" X 12"							●
86A-7/8X8	7/8" X 8"							●
86A-7/8X12	7/8" X 12"							●
86A-1X8	1" X 8"							●
86A-1X12	1" X 12"							●

ALIGNMENT BARS





CODE	SIZE	3 PIECES SET		
		488	488	488
21003		●		
2116	1/2"		●	
2120	5/8"		●	
2124	3/4"		●	
2125	7/8"		●	
2126	1/2"			●
2130	5/8"			●

HOLLOW PUNCHES



CODE	SIZE	PIECES	INCHES		IN MILLIMETERS	
			477	478		
49902	1/8" to 2"	27	●			
49901	1/8" to 3/4"	11	●			
49900	1/8" to 1 3/16"	16	●			
49900M	8 to 30 MM	16				●
50900	5/8" to 1 1/4"	7	●			

STRIKING TOOL SETS

	CODE	SIZE	49903	NO. 46	NO. 6	NO. 5	NO. 2	NO. 4	NO. 3	96A	47A	50A	99B	41A	86D	86B	86C	86A
			478	479	479	479	480	480	480	480	481	481	481	481	482	482	482	482
	49920	1/2"	●															
	49922	3/4"	●															
BRASS DRIVE PIN PUNCHES	Without code	3/8"	●															
	86A-3/16	3/16"		●		●									●			
	86A-1/4	1/4"		●			●									●		
	86A-5/16	5/16"		●		●									●	●	●	●
	86A-3/8	3/8"		●			●								●	●	●	●
	86A-7/16	7/16"		●			●	●							●	●	●	●
	86A-1/2	1/2"		●		●		●	●						●	●	●	●
	86A-5/8	5/8"		●					●						●	●	●	●
	86A-3/4X8	3/4" X 8"		●											●	●		●
	86A-7/8X8	7/8" X 8"		●											●	●		●
CHISELS	86A-1X8	1" X 8"		●											●			
	41-1/4	1/4"												●				
	41-5/16	5/16"												●				
CENTER PUNCH	41-3/8	3/8"		●	●	●	●	●	●					●				
	41-1/2	1/2"		●	●									●				
	41-5/8	5/8"												●				
	44-5/16	5/16"		●														
	44-3/8	3/8"			●													
DRIVE PIN PUNCHES	47-1/4X1/16	1/4" X 1/16"									●							
	47-1/4X3/32	1/4" X 3/32"		●	●	●	●				●							
	47-5/16X1/8	5/16" X 1/8"		●	●	●	●		●		●							
	47-5/16X5/32	5/16" X 5/32"		●	●	●	●	●			●							
	47-3/8X3/16	3/8" X 3/16"		●	●	●	●		●		●							
	47-7/16X7/32	7/16" X 7/32"		●							●							
	47-1/2X1/4	1/2" X 1/4"		●	●						●							
LONG DRIFT PUNCHES	96-1/4	1/4"								●								
	96-5/16	5/16"		●						●			●					
	96-3/8	3/8"		●	●					●			●					
	96-7/16	7/16"		●						●			●					
	96-1/2	1/2"		●	●					●			●					
	96-5/8	5/8"								●			●					
	96-3/4	3/4"				●				●								
	50-3/16	3/16"			●			●				●						
SHORT DRIFT PUNCHES	50-1/4	1/4"		●	●			●				●						
	50-5/16	5/16"		●	●	●	●	●	●			●						
	50-3/8	3/8"		●	●	●	●	●	●			●						
	50-7/16	7/16"		●	●							●						
	50-1/2	1/2"		●	●							●						

10

OCTAGONAL SLEDGES HAMMERS

14XXG

CODE	HEAD			HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
	lbs	oz	grs	in	mm	in	mm	in	mm	grs	lbs
1433G	2	32	907	1 41/64"	41.7	4 35/64"	115.5	12"	304.8	1135	2.50
1434G	3	48	1,360	1 23/32"	43.7	5 9/64"	130.6	12"	304.8	1620	3.57
1435G	4	64	1,814	2 3/64"	52	5 39/64"	142.5	12"	304.8	2200	4.85
1436G	6	96	2,721	2 1/8"	53.9	6"	152.4	36"	914.4	3100	6.83
1437G	8	128	3,628	2 3/8"	60.3	6 3/8"	161.9	36"	914.4	4190	9.23
1438G	10	160	4,536	2 1/2"	63.5	7"	177.8	36"	914.4	5275	11.62
1439G	12	192	5,443	2 11/16"	68.2	7 3/8"	187.3	36"	914.4	6300	13.88
1440G	16	256	7,257	2 7/8"	73.0	8 1/8"	206.3	36"	914.4	8250	18.18



STANDARDS: ANSI/ASME B173.3
FEDERAL GGG-H-86

Wood handle with compact structure providing high impact resistance.

Octagonal design that distributes the load and equalizes stress.

Allayed steel head, press forged and heat treated.



Beveled and machined striking face to prevent accidents due to metal shards.

NON SPARKING SLEDGE HAMMERS WITH FIBER GLASS HANDLES

UHXXFG

CODE	HEAD			HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
	lbs	oz	grs	in	mm	in	mm	in	mm	grs	lbs
UH71FG	7.5	120	3,402	2.11	54	6 1/8"	15.5	34 1/4"	864	4400	9.7
UH72FG	10	160	4,536	2.20	56	7 3/16"	18.2	34 1/4"	864	5500	12.2
UH73FG	15	240	6,804	2.45	62	8 1/8"	20.6	34 1/4"	864	7800	17.2



STANDARDS: MIL-H-1874C, ASME
B107.53M, B107.54, B107.56



Non sparking: Comply with all U.S. Government specifications for non sparking hand tools in hazardous or volatile work environments.

Non magnetic: Allows use in all such critical environments.

Corrosion resistance: Are resistant to industrial and hazardous chemicals and are easily cleaned of volatile residuals.

Fiberglass handles: Provides superior tolerance and breaking stress for adverse environmental conditions.

BRASS HEAD HAMMERS

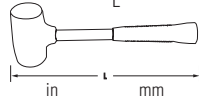
Brass head prevents distortion of materials as well as impact sparking.

14XXFV

BRASS HEAD HAMMERS WITH FIBERGLASS HANDLES



CODE	HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
1430FV	1 3/8"	34.9	3 7/16"	87.3	13 1/2"	342.9	812	1.79
1432FV	2"	50.8	3 3/4"	95.2	16 1/2"	419.1	1,750	3.85



Fiberglass handles with cushion grip cover that minimizes hand vibration.



STANDARDS: FEDERAL GGG-H-33a

Code 1432FV

URREA brass head hammer with fiberglass handle.

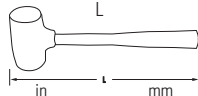
The brass head hammer with fiberglass handle will not produce sparks when striking other metals, making it a safe tool for use in explosive environments. Ideal for precision work such as axle housings, transmissions, etc.



143X

BRASS HEAD HAMMERS WITH WOOD HANDLES

CODE	HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
1430	1 1/8"	28.5	3 7/16"	87.3	12"	305	885	1.95
1432	1 3/4"	44.4	3 3/4"	95.2	16 3/4"	426	1,700	3.74



Wood handles with compact structure providing high impact resistance.



STANDARDS : FEDERAL GGG-H-33a

10

quality starts with U

URREA tools are designed and manufactured to meet or exceed the most demanding industry standards, such as the SAE, (Society of Automotive Engineers), ASME/ANSI (American Society of Mechanical Engineers/American National Standards Institute), ISO (International Standardization Organization), GSA USA Federal (General Services Administration USA Federal Government), and NOM (Norma Oficial Mexicana - Official Mexican Standard).



Visit our website: www.urrea.com

These hammers have two main characteristics. The first is that the distortion occurs on the cap and not on the part being struck. The second characteristic is that the head is hollow and contains a certain quantity of steel dust, which dissipates the vibration produced upon impact, preventing the hammer from rebounding and causing a "dead blow".

DEAD BLOW HAMMERS

SF150HK

DEAD BLOW HAMMER SET WITH 8 INTERCHANGEABLE CAPS 16 OZ

HEAD			HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
lbs	oz	grs	in	mm	in	mm	in	mm	grs	lbs
1	16	454	1 1/2	38.1	4	101.6	11.5	292.1	1374	3.02



Includes 8 caps: Super soft (gray), soft (brown), medium (red), rugged use (green), medium hard (beige), hard (black), extra hard (yellow), steel cap, 1 Plastic case



Code SF150HK

Dead blow hammer set with 8 interchangeable caps 16 oz.

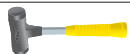
The dead blow hammer with interchangeable caps is mainly used for assembling machinery parts where it is necessary to prevent damage to the surface being struck.



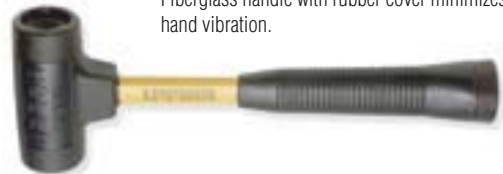
SF150

DEAD BLOW HAMMER 16 OZ (NOT INCLUDING INTERCHANGEABLE CAPS)

HEAD			HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
lbs	oz	grs	in	mm	in	mm	in	mm	grs	lbs
1	16	454	1 1/2	38.1	4	101.6	11.5	292.1	586	1.29



Fiberglass handle with rubber cover minimizes hand vibration.



SF1XXX

INTERCHANGEABLE CAPS FOR 1 1/2" DEAD BLOW HAMMERS

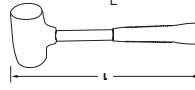
CODE	STRIKING TYPE	CAP COLOR	SIZE
SF15SS	SUPER SOFT	LIGHT GRAY	1 1/2"
SF15ST	SOFT	BROWN	1 1/2"
SF15M	MEDIUM	RED	1 1/2"
SF15T	RUGGED USE	GREEN	1 1/2"
SF15MH	MEDIUM HARD	IVORY	1 1/2"
SF15H	HARD	BLACK	1 1/2"
SF15XH	EXTRA HARD	YELLOW	1 1/2"
SF16S	SOLID	STEEL CAP	1 1/2"
SF16B	SOLID	BRASS CAP	1 1/2"

Uses any of 9 interchangeable caps, each with a different Rockwell "b" hardness. This unit of measurement is used to designate a hardness value to soft materials such as plastic, rubber, non-tempered steel, etc.



143XPDB DEAD BLOW HAMMERS

CODE	HEAD			HEAD DIAMETER				HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
	lbs	oz	grs	in	mm	in	mm	in	mm	in	mm	grs	lbs
1434PDB	1	16	454	1.8	45.7	5 1/8	130.1	12.25	311.1	454	1.00		
1435PDB	1.5	24	680	1.8	45.7	5 1/8	130.1	12.25	311.1	680	1.50		



Uses a "dead blow" system to prevent the hammer from rebounding upon impact. Caps are soft and fixed.

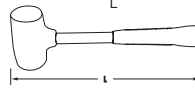


The head is made of a steel body and two cellulose acetate caps designed for use with metals and other materials susceptible to marking or distortion. The distortion occurs in the cap and not in the object being struck.

HIGH IMPACT DEAD BLOW MALLET

1430DBX

CODE	HEAD			HEAD DIAMETER				HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
	lbs	oz	grs	in	mm	in	mm	in	mm	grs	lbs		
1430DBX	2	32	907	2	50.8	5	127	13.75	349.25	900	1.98		



Reinforced hit face.

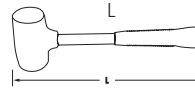
Indestructible fiberglass handle.



Non-slip, shock absorption super grip handle.

143XDB

CODE	HEAD			HEAD DIAMETER				HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
	lbs	oz	grs	in	mm	in	mm	in	mm	grs	lbs		
1430DB	2	38	907	2	50.8	4 3/8	111.1	13 3/4	349.2	907	2.00		
1432DB	3	48	1360	2 3/4	69.8	4 3/4	120.6	14 11/16	373.0	1360	3.00		



Fiberglass handle with rubber cover minimizes hand vibration.



Code 1432DB
High impact dead blow mallet.

Aside from the steel dust system in the head providing it with extra weight, the high impact dead blow mallet has a large contact area, making it useful for assembling machinery parts that require a great deal of force.

10

HAMMERS WITH FIXED PLASTIC CAPS

1383

HAMMER WITH FIXED PLASTIC CAPS

HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
in	mm	in	mm	in	mm	grs	lbs
1 5/6"	33.3	3 15/32"	88.1	12"	304.8	360	0.79

STANDARDS: FEDERAL GGG-H-86a



Wood handles with compact structure providing high impact resistance.

Translucent acetate plastic caps that prevent hammer rebound.



DATA SHEET FOR HAMMERS WITH PLASTIC CAPS					
STANDARD FEDERAL GGG-H-20a			CHARACTERISTICS		
CODE	SHORE A HARDNESS	STRIKING	TYPE	HEAD OZ.	HEAD WEIGHT
1383	78 30 SEC.	25	PLASTIC CAPS	13	360

Code 1383

Hammer with fixed plastic caps.

Hammers with fixed plastic caps are used to strike materials that are soft and do not require much force.

HAMMERS WITH INTERCHANGEABLE RUBBER CAPS

1364

HAMMER WITH INTERCHANGEABLE CAPS

HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
in	mm	in	mm	in	mm	grs	lbs
1 1/2"	38.1	3 3/8"	85.7	12"	304.8	385	0.85

STANDARDS: FEDERAL GGG-H-86a

Extra soft gray cap.



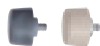
Wood handle with compact structure providing high impact resistance.

Rugged use beige cap.

1364XX

INTERCHANGEABLE CAPS FOR HAMMER 1364

CODE	STRIKING TYPE	SHORE HARDNESS	CAP COLOR	SIZE
1364XS	EXTRA SOFT	60	DARK GRAY	1 1/2"
1364T	RUGGED USE	95	BEIGE	1 1/2"



These caps may be used with the SF150 and 1364 hammers.



1364XS

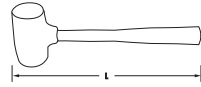


1364T

HANDLE WITH RUBBER HEAD

136X

CODE	HEAD		HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
	lbs	oz	in	mm	in	mm	in	mm	grs	lbs
1366	0.5	8	1 25/32	45.2	3 1/16	77.7	12 1/2	317.5	226	0.50
1367	1	16	2 3/16	55.5	3 3/4	95.2	14 1/2	368.3	454	1.00
1368	1.4	22	2 5/8	66.6	4 1/2	114.3	16 19/32	421.8	635	1.40



Wood handle with compact structure providing high impact resistance.

The head is manufactured from neoprene rubber and is primarily used to prevent damage to volume-type objects.



STANDARDS: FEDERAL GGG-H-20a

DATA SHEET FOR RUBBER MALLETS						
STANDARD FEDERAL GGG-H-20a				CHARACTERISTICS		
CODE	SHORE A HARDNESS	SHEAR LB/IN (THICKNESS)	WEIGHT IMPACT	TYPE	HEAD OZ.	HEAD WEIGHT
					1368	90-100 SEC.



Code 1368
Mallet with rubber head

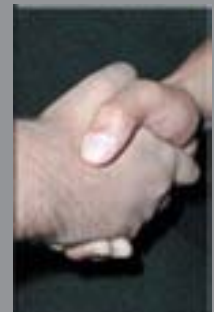
The rubber head is very useful for striking parts that are large, but require special care.



forever**starts with**  **guaranteed forever**



URREA Tools are designed to offer precision, quality, and strength. They are made by highly skilled and trained personnel, using the most sophisticated equipment, the best materials available and under the strictest specifications.



CONTACT US

email: customerservice@urrea.com **FAX:** (210) 734-8715 **Phone:** (210) 734-8703 / (800) 366-6911

BALL HAMMERS, SUPER HEAVY DUTY INDUSTRIAL, POLISHED HEAD FIBERGLASS HANDLE

13XXFV



CODE	HEAD		TOTAL LENGTH L		HEAD DIAMETER	WEIGHT		STRESS RESISTANCE ASME/ANSI B173.2 lb-in.
	oz	grs	in	mm		grs	lbs	
1308FV	8	226.8	11 1/4"	285.7	1.00	226.8	1.65	750
1312FV	12	340.2	12"	304.8	1.15	340.2	1.65	750
1316FV	16	454	12 3/4"	323.8	1.31	454	4.96	2250
1324FV	24	681	14 1/4"	361.9	1.43	681.8	4.96	2250
1332FV	32	908	14 1/2"	368.3	1.62	908	4.96	2250
1340FV	40	1,135	16 1/2"	419.1	1.68	1135	4.96	2250



STANDARDS: FEDERAL GGG-H-86C
ANSI/ASME B173.2 NOM-0-103

Fiberglass handle with rubber cover minimizes hand vibration.



Forged steel alloy head, tempered and annealed to prevent fractures and distortion of the striking faces, polished finish.

DATA SHEET FOR BALL PEIN HAMMERS						
STANDARD ANSI B 173.2						
CODE	°RC HARDNESS	LBF STRESS	LBF BENDING	STRIKING	TYPE	
1308FV	45-60	750	40	20	PLUS	
1312FV	45-60	750	60	20	PLUS	
1316FV	45-60	2250	80	20	PLUS	
1324FV	45-60	2250	150	20	PLUS	
1332FV	45-60	2250	150	20	PLUS	
1340FV	45-60	2250	175	20	PLUS	

BALL HAMMERS, EXTRA HEAVY DUTY INDUSTRIAL, POLISHED HEAD

13XXP



CODE	HEAD		TOTAL LENGTH L		HEAD DIAMETER	WEIGHT		STRESS RESISTANCE ASME/ANSI B173.2 LB-In.
	oz	grs	in	mm		grs	lbs	
1308P	8	226.8	11 5/8"	295.2	1.00	327	0.72	750
1312P	12	340.2	13 5/8"	346.0	1.15	422	0.93	750
1316P	16	454	13 3/4"	349.2	1.31	630	1.38	2250
1324P	24	681	15 5/8"	396.8	1.43	828	1.82	2250
1332P	32	908	15 7/8"	403.2	1.62	1,050	2.31	2250
1340P	40	1,135	17 1/4"	438.1	1.68	1,210	2.66	2250
1348P	48	1,361	17 1/4"	438.1	1.87	2,231	4.91	1000



STANDARDS: FEDERAL GGG-H-86C
ANSI/ASME B173.2 NOM-0-103

Wood handle with compact structure providing high impact resistance.



Forged and tempered steel alloy head, polished and varnished.

DATA SHEET FOR BALL PEIN HAMMERS						
STANDARD ANSI B 173.2						
CODE	°RC HARDNESS	LBF STRESS	LBF BENDING	STRIKING	TYPE	
1308P	45-60	400	40	20	PLUS	
1312P	45-60	400	60	20	PLUS	
1316P	45-60	400	80	20	PLUS	
1324P	45-60	1000	150	20	PLUS	
1332P	45-60	1000	150	20	PLUS	
1340P	45-60	1000	175	20	PLUS	

BLACK HEAD BALL HAMMER WITH ERGONOMIC HANDLE

13XXE

CODE	HEAD		TOTAL LENGTH L		HEAD DIAMETER	WEIGHT		TORSION RESISTANCE ASME/ANSI B173.2 LB-In.
	oz	grs	in	mm	in	grs	lbs	
1324E	24	681	15 5/8"	396.8	1.43	823	1.81	2250
1332E	32	908	15 7/8"	403.2	1.62	1045	2.30	2250

BLACK

STANDARDS: ANSI/ASME B173.2

Ergonomic oak handle prevents slipping.



Forged steel alloy head, tempered and annealed with blued finish and varnish.
Striking face hardness of 49 to 55° RC, flash annealed.

DATA SHEET FOR BALL PEIN HAMMERS

STANDARD ANSI B 173.2

CODE	°RC HARDNESS	LBF STRESS	LBF BENDING	STRIKING	TYPE
1324E	45-60	1000	150	20	BLACK
1332E	45-60	1000	175	20	BLACK

BLACK HEAD BALL HAMMER

13XXPN

CODE	HEAD		TOTAL LENGTH L		HEAD DIAMETER	WEIGHT		TORSION RESISTANCE ASME/ANSI B173.2 LB-In.
	oz	grs	in	mm	in	grs	lbs	
1308PN	8	226.8	11 5/8"	295.2	1.00	327	0.72	750
1312PN	12	340.2	13 5/8"	346.0	1.15	422	0.93	750
1316PN	16	454	13 3/4"	349.2	1.31	630	1.39	2250
1324PN	24	681	15 5/8"	396.8	1.43	828	1.83	2250
1332PN	32	908	15 7/8"	403.2	1.62	1,050	2.31	2250
1340PN	40	1,135	17 1/4"	438.1	1.68	1,210	2.67	2250
1348PN	48	1,361	17 1/4"	438.1	1.87	2,231	4.91	1000

BLACK

STANDARDS: FEDERAL GGG-H-86C
ANSI/ASME B173.2 NOM-0-103

Wood handle with compact structure providing high impact resistance.



Double heat-treated forged steel alloy head.
Assembled with metallic wedge to secure head and handle.

DATA SHEET FOR BALL PEIN HAMMERS

STANDARD ANSI B 173.2

CODE	°RC HARDNESS	LBF STRESS	LBF BENDING	STRIKING	TYPE
1308PN	45-60	400	40	20	BLACK
1312PN	45-60	400	60	20	BLACK
1316PN	45-60	400	80	20	BLACK
1324PN	45-60	1000	150	20	BLACK
1332PN	45-60	1000	150	20	BLACK
1340PN	45-60	1000	175	20	BLACK

10

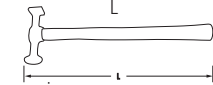
ENGRAVER'S HAMMERS

Used for removing dents in the bodywork repair process, the heads have small radii and shapes that allow easy matching with the various types of automobile bodywork.

DATA SHEET FOR ENGRAVER'S HAMMERS						
STANDARD ANSI B 173.5					CHARACTERISTICS	
CODE	°RC HARDNESS	LBF STRESS	LBF BENDING	STRIKING	HEAD OZ.	HEAD GRS.
1421	45-60	400	25	20	13	515
1424	45-60	400	25	20	16	350
1427	45-60	400	25	20	16	322
1428	45-60	400	25	20	16	326

**1421
DOUBLE-HEAD DINGING HAMMER**

HEAD DIAMETER		HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
in	mm	in	mm	in	mm	in	mm	grs	lbs
1 5/8"	41.2	1 1/4"	31.7	6"	152.4	13 3/4"	349.2	515	1.14



STANDARDS: FEDERAL GGG-H-86a

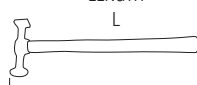


Wood handle with compact structure providing high impact resistance.

Engraver's hammer with two round tips, double heat-treated forged steel alloy. For removing dents, creases, ripples, etc.

**1428
SINGLE HEAD DINGING HAMMER**

HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
in	mm	in	mm	in	mm	grs	lbs
1 1/2"	38.1	5 7/8"	149.2	14"	355.6	326	0.72



STANDARDS: ANSI/HTI B173.5
FEDERAL GGG-H-20a

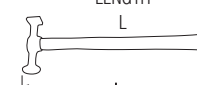


Wood handle with compact structure providing high impact resistance.

Dinging hammer with round and pointed tips for removing dents from sheet metal and deep areas.

**1424
FINISHING HAMMER**

HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
in	mm	in	mm	in	mm	grs	lbs
1 1/4"	31.7	4"	101.6	13"	330.2	350	0.77



STANDARDS: FEDERAL GGG-H-86a

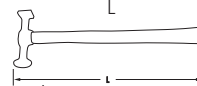


Wood handle with compact structure providing high impact resistance.

Hammer with round and square tips, tempered and annealed, hardness 43-45° Rc. For softening damaged metal surfaces, especially corner areas.

**1427
FINISHING HAMMER**

HEAD DIAMETER		HEAD LENGTH		TOTAL LENGTH L		WEIGHT	
in	mm	in	mm	in	mm	grs	lbs
1 3/8"	34.9	4 1/2"	114.3	12 1/4"	311.15	322	0.71



STANDARDS: FEDERAL GGG-H-86a



Wood handle with compact structure providing high impact resistance.

Hammer with round flat tip and special narrow head for finishing edges and moldings.

HOLLOW PUNCH SETS



Manufactured from high carbon steel, hardness of 53 to 66° Rc, handle made of strike resistant alloyed steel, polypropylene case. System for using 2 or more HOLLOW PUNCHES at a time.

49902

27 PIECES

SET OF 27 HOLLOW PUNCHES FROM 1/8" TO 2" IN PLASTIC BOX

DESCRIPTION	ACCESSORIES	WEIGHT	
		grs	lbs
in	Adaptor handle	2748	6.06
1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1", 1 1/16", 1 1/8", 1 3/16", 1 1/4", 1 5/16", 1 3/8" 1 7/16", 1 1/2", 1 5/8", 1 11/16", 1 3/4", 1 7/8", 2"	Plastic box		



Code 49902

Set of 27 hollow punches from 1/8" to 2" in plastic box.

Hollow punches are used to cut round sections from the interior of different materials. Specific uses and applications vary widely. For example: seals can be made for an automobile oil pan drain, for hydraulic or sanitary installations, etc. Materials that can be cut include polyurethane foam, rubber, cardboard, leather, hide and gasket material.

49900

16 PIECES

SET OF 16 HOLLOW PUNCHES FROM 1/8" TO 1 3/16" IN PLASTIC BOX

DESCRIPTION	ACCESSORIES	WEIGHT	
		grs	lbs
in	Adaptor handle	1120	2.47
1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4", 7/8", 1", 1 1/16", 1 1/8", 1 3/16"	Plastic box		



10



49901

11 PIECES

SET OF 11 HOLLOW PUNCHES FROM 1/8" TO 3/4" IN PLASTIC BOX

DESCRIPTION	ACCESSORIES	WEIGHT	
		grs	lbs
in	Adaptor handle	598	1.32
1/8", 3/16", 1/4", 5/16", 3/8", 7/16", 1/2", 9/16", 5/8", 3/4"	Plastic box		



49900M

16 PIECES

SET OF 16 HOLLOW PUNCHES FROM 3 TO 30 MILLIMETERS IN PLASTIC BOX

DESCRIPTION	ACCESSORIES	WEIGHT	
		grs	lbs
mm	Adaptor handle		
3mm, 4mm, 6mm, 8mm, 10mm, 12mm, 14mm, 16mm, 18mm, 20mm, 22mm, 24mm, 26mm, 30mm.	Plastic box	1120	2.47



50900

7 PIECES

SET OF 7 HOLLOW PUNCHES FROM 5/8" TO 1 1/4" INCH IN PLASTIC BOX

STRIKER PIN Ø	MATRIX HEX	TORNILLOS L ROSCA				WEIGHT			
		Ø		HEX		grs	lbs		
in	in	in	mm	in	mm	in	mm	grs	lbs
5/8	9/16	5/16	8	1	25.4	1/2	13	800	1.76
3/4	19/32	25/64	10	1 1/2	38.1	39/59	17		
1	51/64	15/32	12	1 3/4	44.4	14/19	19		
1 1/4	1 1/32								



BRASS DRIFT PUNCH SET

49903

3 PIECES

SET OF 3 BRASS DRIFT PUNCHES IN CASE

DESCRIPTION	ACCESORIES	WEIGHT	
		grs	lbs
3/4", 1/2", 3/8"	Case	793	1.75



The grip area is knurled to provide a better grip.

COMBINATION SETS OF PUNCHES, NAIL SETS AND CHISELS

NO. 46

26 PIECES

SET OF 26 PUNCHES, CHISELS AND NAIL SETS IN CASE

CODE	SIZE		CODE	SIZE	
	in	mm		in	mm
41-3/8"	3/8"	3.1	86A-3/16"	3/16"	6.35
41-1/2"	1/2"	4.7	86A-1/4"	1/4"	7.94
44-5/16"	5/16"	2.7	86A-5/16"	5/16"	9.53
47-1/4" X 3/32"	1/4" X 3/32"	2.38	86A-7/16"	7/16"	12.70
47-5/16" X 1/8"	5/16" X 1/8"	3.18	86A-1/2"	1/2"	15.88
47-5/16" X 5/32"	5/16" X 5/32"	3.97	86A-5/8"	5/8"	19.05
47-3/8" X 3/16"	3/8" X 3/16"	4.76	86A-3/4" X 8"	3/4"	22.23
47-7/16" X 7/32"	7/16" X 7/32"	5.56	86A-7/8" X 8"	7/8"	25.40
47-1/2" X 1/4"	1/2" X 1/4"	6.35	86A-1" X 8"	1"	30.16
50-1/4"	1/4"	2.3	96-5/16"	5/16"	3.1
50-5/16"	5/16"	3.1	96-3/8"	3/8"	4.7
50-3/8"	3/8"	4.7	96-1/2"	1/2"	6.3
50-7/16"	7/16"	5.5	E516	Case	
50-1/2"	1/2"	6.3			



NO. 6

16 PIECES

SET OF 16 PUNCHES AND NAIL SETS IN CASE

CODE	SIZE		CODE	SIZE	
	in	mm		in	mm
47-1/4" X 3/32"	1/4" X 3/32"	2.3	96-3/8"	3/8"	4.7
47-5/16" X 1/8"	5/16" X 1/8"	3.1	96-1/2"	1/2"	6.3
47-5/16" X 5/32"	5/16" X 5/32"	3.9	41-3/8"	3/8"	3.1
47-3/8" X 3/16"	3/8" X 3/16"	4.7	41-1/2"	1/2"	4.7
47-1/2" X 1/4"	1/2" X 1/4"	6.3	44-3/8"	3/8"	3.1
50-3/16"	3/16"	1.5	E514	Case	
50-1/4"	1/4"	1.5			
50-5/16"	5/16"	3.1			
50-3/8"	3/8"	4.7			
50-7/16"	7/16"	5.5			
50-1/2"	1/2"	6.3			



10

NO. 5

12 PIECES

SET OF 12 CHISELS, PUNCHES AND NAIL SETS IN CASE

CODE	SIZE		CODE	SIZE	
	in	mm		in	mm
47-1/4" X 3/32"	1/4" X 3/32"	2.38	86A-3/16"	3/16"	6.35
47-5/16" X 1/8"	5/16" X 1/8"	3.18	86A-5/16"	5/16"	9.53
47-5/16" X 5/32"	5/16" X 5/32"	3.97	86A-7/16"	7/16"	12.70
47-3/8" X 3/16"	3/8" X 3/16"	4.76	86A-1/2"	1/2"	15.88
50-5/16"	5/16"	3.1	E519	Case	
50-3/8"	3/8"	4.7			
96-3/4"	3/4"	9.5			
41-3/8"	3/8"	3.1			



NO. 2

10 PIECES

SET OF 10 PUNCHES AND CHISELS IN CASE

CODE	SIZE	
	in	mm
41-3/8"	3/8"	3.1
47-1/4" X 3/32"	1/4" X 3/32"	2.3
47-5/16" X 1/8"	5/16" X 1/8"	3.1
47-3/8" X 3/16"	3/8" X 3/16"	4.7
50-3/16"	3/16"	1.5
50-5/16"	5/16"	3.1
50-3/8"	3/8"	4.7
86A-1/4"	1/4"	7.9
86A-3/8"	3/8"	11.1
86A-7/16"	7/16"	12.7
E307	Case	



NO. 4

5 PIECES

SET OF 5 CHISELS, PUNCHES AND NAIL SETS IN CASE

CODE	SIZE	
	in	mm
47-5/16" X 5/32"	5/16" X 5/32"	3.97
50-3/8"	3/8"	9.5
41-3/8"	3/8"	9.5
86A-7/16"	7/16"	11.1
86A-1/2"	1/2"	12.7
E518	Case	



NO. 3

5 PIECES

SET OF 5 PUNCHES AND CHISELS IN CASE

CODE	SIZE	
	in	mm
41-3/8"	3/8"	9.5
47-5/16" X 1/8"	5/16" X 1/8"	3.1
47-3/8" X 3/16"	3/8" X 3/16"	4.7
50-5/16"	5/16"	7.9
86A-1/2"	1/2"	12.7
E300	Case	



SETS OF PUNCHES AND NAIL SETS

96A

7 PIECES

SET OF 7 LONG DRIFT PUNCHES IN CASE

CODE	SIZE	
	in	mm
96-1/4"	1/4"	6.3
96-5/16"	5/16"	7.9
96-3/8"	3/8"	9.5
96-7/16"	7/16"	11.1
96-1/2"	1/2"	12.7
96-5/8"	5/8"	15.8
96-3/4"	3/4"	19
E303	Case	



47A

7 PIECES

SET OF 7 DRIVE PIN PUNCHES IN CASE

CODE	SIZE	
	in	mm
47-1/4" X 1/16"	1/4" X 1/16"	1.5
47-1/4" X 3/32"	1/4" X 3/32"	2.3
47-5/16" X 1/8"	5/16" X 1/8"	3.1
47-5/16" X 5/32"	5/16" X 5/32"	3.9
47-3/8" X 3/16"	3/8" X 3/16"	4.7
47-7/16" X 7/32"	7/16" X 7/32"	5.5
47-1/2" X 1/4"	1/2" X 1/4"	6.3
E307	Case	



50A

SET OF 6 SHORT DRIFT PUNCHES IN CASE

CODE	SIZE	
	in	mm
50-3/16"	3/16"	1.5
50-1/4"	1/4"	2.3
50-5/16"	5/16"	3.1
50-3/8"	3/8"	4.7
50-7/16"	7/16"	5.5
50-1/2"	1/2"	6.3
E515	Case	



99B

5 PIECES

SET OF 5 LONG DRIFT PUNCHES IN CASE

CODE	SIZE	
	in	mm
96-5/16"	5/16"	3.1
96-3/8"	3/8"	4.7
96-7/16"	7/16"	5.5
96-1/2"	1/2"	6.3
96-5/8"	5/8"	7.9
E517	Case	



10

CENTER AND PRICK PUNCH SETS

41A

5 PIECES

SET OF 5 CENTER AND PRICK PUNCHES IN CASE

CODE	SIZE	
	in	mm
41-1/4"	1/4"	1.9
41-5/16"	5/16"	2.3
41-3/8"	3/8"	3.1
41-1/2"	1/2"	4.7
41-5/8"	5/8"	5.9
E518	Case	



CHISEL SETS

86D

10 PIECES
SET OF 10 CHISELS IN CASE

CODE	SIZE		CODE	SIZE	
	in	mm		in	mm
86A-3/16"	3/16"	7.0	86A-1/2"	1/2"	15.8
86A-1/4"	1/4"	7.9	86A-5/8"	5/8"	19.0
86A-5/16"	5/16"	9.5	86A-3/4" X 8"	3/4" X 8"	22.2
86A-3/8"	3/8"	11.1	86A-7/8" X 8"	7/8" X 8"	22.2
86A-7/16"	7/16"	12.7	86A-1" X 8"	1" X 8"	22.2
E513		Case			



86B

7 PIECES
SET OF 7 CHISELS IN CASE

CODE	SIZE	
	in	mm
86A-1/4"	1/4"	7.9
86A-5/16"	5/16"	9.5
86A-3/8"	3/8"	1.1
86A-7/16"	7/16"	12.7
86A-1/2"	5/8"	15.8
86A-5/8"	5/8"	19.0
86A-3/4" X 8"	3/4" X 8"	22.2
E302		Case



86C

5 PIECES
SET OF 5 CHISELS IN CASE

CODE	SIZE	
	in	mm
86A-1/4"	1/4"	7.94
86A-5/16"	5/16"	9.53
86A-3/8"	3/8"	11.11
86A-7/16"	7/16"	12.70
86A-1/2"	1/2"	15.88
E520		Case



86A

5 PIECES
SET OF 5 CHISELS IN CASE

CODE	SIZE	
	in	mm
86A-5/16"	5/16"	9.5
86A-7/16"	7/16"	12.7
86A-1/2"	1/2"	15.8
86A-5/8"	5/8"	19.0
86A-3/4" X 8"	3/4" X 8"	22.2
E520		Case



Drift punches are used to install or remove bolts and rivets. There are three types of drift punches: short, long and drive pin punches. The length is important for the specific working conditions in each case. Drive pin punches can also be used to align holes in the assembly of parts. Brass drive pin punches are used in cases where the part being struck must not be marked or sparking must be avoided.

BASS DRIVE PIN PUNCHES

4992X

CODE	DIAMETER OF TIP B		DIAMETER OF BAR B		LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
49920	1/2"	19.0	1/2"	19.0	8"	20	485	1.07
49922	3/4"	12.7	3/4"	12.7	7"	17	190	0.42



STANDARDS: FEDERAL GGG-P-831C
ANSI/HTI B209.2



Will not mark or produce sparks when struck.
Designed to prevent damage to objects being struck.
The end opposite the tip is designed for striking.



Code 49903
Brass drive pin punch set.

Brass drive pin punches are specially made to prevent marking the objects being struck. The soft materials from which these products are manufactured provide the same results as steel punches, but better preserve the integrity of the objects being installed or removed. In addition, they do not cause sparking when striking other metals.

90° CENTER PUNCHES

10

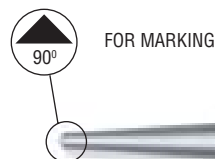
Center punches are mainly used to identify parts during the processes of manufacturing, assembly or repair of machinery. A 90-degree angle at the tip allows them to leave a visible mark on the surface to which they are applied.

41-X/X

CODE	A		B		LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
41-1/4"	5/64"	1.9	1/4"	6.3	4 1/4"	107.9	24	0.05
41-5/16"	3/32"	2.3	5/16"	7.9	4 5/8"	117.4	39	0.09
41-3/8"	1/8"	3.1	3/8"	9.5	4 7/8"	123.8	62	0.14
41-7/16"	5/32"	3.9	7/16"	11.1	5 1/4"	133.3	87	0.19
41-1/2"	3/16"	4.7	1/2"	12.7	5 5/8"	142.8	163	0.36
41-5/8"	5/16"	5.9	5/8"	15.8	6 1/4"	158.7	222	0.49



STANDARDS: FEDERAL GGG-P-831C
ANSI/ASME B209.2



For drawing lines on metal plates or sheets.
Marking or punching drill holes.
Starting holes for self-tapping screws.
The end opposite the tip is designed for striking.

STANDARDS FOR CENTER PUNCHES (ASME B107.48M)

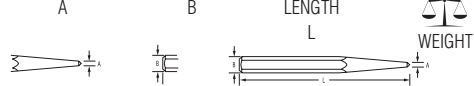
CODE	CUTTING AREA HARDNESS °RC	STRIKING AREA HARDNESS °RC	HEIGHT IMPACT/IN.	WEIGHT IMPACT/LB
41-1/4"	48-60	45 max.	5	5
41-5/16"	48-60	45 max.	5	5
41-3/8"	48-60	45 max.	5	5
41-7/16"	48-60	45 max.	5	5
41-1/2"	48-60	45 max.	5	5
41-5/8"	48-60	45 max.	5	5

50° PRICK PUNCHES

Prick punches are used to help center and locate during drilling processes. A 50-degree angle at the tip permits exact marking and prevents the drill bit from slipping on the surface to be drilled.

44-X/XX

CODE	A		B		LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
44-1/4"	3/32"	2.3	1/4"	6.3	4 3/4"	120.6	25	0.06
44-5/16"	7/64"	2.7	5/16"	7.9	5"	127.0	45	0.10
44-3/8"	1/8"	3.1	3/8"	9.5	5 1/4"	133.3	70	0.15



STANDARDS: FEDERAL GGG-P-831C
ANSI/ASME B209.2




Useful for starting drill holes.
The end opposite the tip is designed for striking.

STANDARDS FOR PRICK PUNCHES (ASME B107.48M)				
CODE	CUTTING AREA HARDNESS °RC	STRIKING AREA HARDNESS °RC	HEIGHT IMPACT/IN.	WEIGHT IMPACT/LB
44-1/4"	48-60	45 max.	15	5
44-5/16"	48-60	45 max.	15	5
44-3/8"	48-60	45 max.	15	5

DRIVE PIN PUNCHES

47-X/XX

CODE	A		B		LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
47-1/4" X 1/16"	1/16"	1.59	1/4"	6.35	4 3/8"	111.13	24	0.05
47-1/4" X 3/32"	3/32"	2.38	1/4"	6.35	4 3/4"	120.65	28	0.06
47-5/16" X 1/8"	1/8"	3.18	5/16"	7.94	5 1/4"	133.35	40	0.09
47-5/16" X 5/32"	5/32"	3.97	5/16"	7.94	5 5/8"	142.88	45	0.10
47-3/8" X 3/16"	3/16"	4.76	3/8"	9.53	6 1/8"	155.58	68	0.15
47-7/16" X 7/32"	7/32"	5.56	7/16"	11.11	6 1/2"	165.10	49	0.11
47-1/2" X 1/4"	1/4"	6.35	1/2"	12.70	6 3/4"	171.45	127	0.28



STANDARDS: FEDERAL GGG-P-831C
ANSI/ASME B209.2



For installing and removing guide pins in die work.
For installing and removing center guides and pins.
Aligning bolts to center two or more parts.
The end opposite the tip is designed for striking.

STANDARDS FOR DRIVE PIN PUNCHES (ASME B107.48M)				
CODE	CUTTING AREA HARDNESS °RC	STRIKING AREA HARDNESS °RC	HEIGHT IMPACT/IN.	WEIGHT IMPACT/LB
47-1/4" X 1/16"	48-60	45 max.	5	1
47-1/4" X 3/32"	48-60	45 max.	7	1
47-5/16" X 1/8"	48-60	45 max.	10	2 1/2"
47-5/16" X 5/32"	48-60	45 max.	10	5
47-3/8" X 3/16"	48-60	45 max.	20	5
47-7/16" X 7/32"	48-60	45 max.	30	5
47-1/2" X 1/4"	48-60	45 max.	25	10

LONG DRIVE PUNCH 8"

48-X/XX

CODE	A		B		LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
48-3/8" X 5/32"	5/32	3.97	3/8	9.53	8	203	388	0.85
48-3/8" X 3/16"	3/16	4.7	3/8	9.53	8	203	357	0.78
48-7/16" X 7/32"	7/32	5.5	7/16	11.11	8	203	617	1.36
48-1/2" X 1/4"	1/4	6.3	1/2	12.7	8	203	826	1.82
48-1/2" X 5/16"	5/16	7.94	1/2	12.7	8	203	830	1.83



STANDARDS: FEDERAL GGG-P831C
ASME B107.48M



Made of 1060 steel for higher resistance.
Installs and removes axles.
Bolt alignment.
Special treatment on top.

STANDARDS FOR LONG DRIVE PUNCHES (ASME B107.48M)

CODE	CUTTING AREA HARDNESS °RC	STRIKING AREA HARDNESS °RC	HEIGHT IMPACT/IN.	WEIGHT IMPACT/LB
48-3/8" X 5/32"	48-60	45 max.	10	5
48-3/8" X 3/16"	48-60	45 max.	10	5
48-7/16" X 7/32"	48-60	45 max.	20	5
48-1/2" X 1/4"	48-60	45 max.	30	5
48-1/2" X 5/16"	48-60	45 max.	25	10

quality starts with



10



URREA Professional Tools received the ISO 9000 certification in November 1998 and updated to ISO 9001:2000 certification in February 2004. This certification represents our constant commitment to maintain our operating and product manufacturing standards.

Visit our website: www.urrea.com

LONG DRIFT PUNCHES

96-X/XX

CODE	A		B		LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
96-1/4"	3/32"	2.3	1/4"	6.3	10"	254.0	52	0.11
96-5/16"	1/8"	3.1	5/16"	7.9	10"	254.0	80	0.18
96-3/8"	3/16"	4.7	3/8"	9.5	10"	254.0	117	0.26
96-7/16"	7/32"	5.5	7/16"	11.1	10"	254.0	172	0.38
96-1/2"	1/4"	6.3	1/2"	12.7	10"	254.0	224	0.49
96-5/8"	5/16"	7.9	5/8"	15.8	10"	254.0	354	0.78
96-3/4"	3/8"	9.5	3/4"	19.0	10"	254.0	503	1.11

STANDARDS: FEDERAL GGG-P-831C
ANSI/ASME B209.2



For installing and removing guide pins in die and mold work.
For installing and removing center guides and pins in deep openings.
Aligning bolts to center two or more parts.
The end opposite the tip is designed for striking.

STANDARDS FOR LONG DRIFT PUNCHES (ASME B107.48M)				
CODE	CUTTING AREA HARDNESS °RC	STRIKING AREA HARDNESS °RC	HEIGHT IMPACT/IN.	WEIGHT IMPACT/LB
96-1/4"	46-80	45 max.	20	5
96-5/16"	46-80	45 max.	20	10
96-3/8"	46-80	45 max.	20	10
96-7/16"	46-80	45 max.	NS	NS
96-1/2"	46-80	45 max.	NS	NS
96-5/8"	46-80	45 max.	NS	NS
96-3/4"	46-80	45 max.	NS	NS

NS: NOT SPECIFIED IN STANDARD

SHORT DRIFT PUNCHES

50-X/XX

CODE	A		B		LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
50-3/16"	1/16"	1.5	3/16"	4.7	4 1/8"	104.7	21	0.05
50-1/4"	3/32"	2.3	1/4"	6.3	4 5/8"	117.4	24	0.05
50-5/16"	1/8"	3.1	5/16"	7.9	5 1/8"	130.1	42	0.09
50-3/8"	1/16"	4.7	3/8"	9.5	5 5/8"	142.8	75	0.17
50-7/16"	7/32"	5.5	7/16"	11.1	6"	152.4	112	0.25
50-1/2"	1/4"	6.3	1/2"	12.7	6 4"	165.1	153	0.34

STANDARDS: FEDERAL GGG-P-831C
ANSI/ASME B209.2



For installing and removing guide pins in die and mold work.
For installing and removing center guides and pins in deep openings.
Aligning bolts to center two or more parts.
The end opposite the tip is designed for striking.

STANDARDS FOR SHORT DRIFT PUNCHES (ASME B107.48M)				
CODE	CUTTING AREA HARDNESS °RC	STRIKING AREA HARDNESS °RC	HEIGHT IMPACT/IN.	WEIGHT IMPACT/LB
50-3/16"	46-80	45 max.	20	5
50-1/4"	46-80	45 max.	20	5
50-5/16"	46-80	45 max.	20	10
50-3/8"	46-80	45 max.	20	10
50-7/16"	46-80	45 max.	NS	NS
50-1/2"	46-80	45 max.	NS	NS

NS: NOT SPECIFIED IN STANDARD

CHISELS

Chisels are tools specially designed for removing, cutting or breaking materials softer than the chisel tip, such as concrete, stone, welding slag, brass, untreated steel, nuts, bolts, studs, etc. They are very widely used in the construction industry, and in installation and maintenance operations for fixed equipment and piping within the chemical and food industries.

The width of the tip determines the application of the chisel, depending upon the accuracy or roughness of the work to be performed.

STANDARDS FOR CHISELS (ASME B107.48M)			
CODE	CUTTING AREA HARDNESS °RC	STRIKING AREA HARDNESS °RC	HEIGHT IMPACT/IN.
86A-3/16"	56-60	45 max.	6
86A-1/4"	45-60	45 max.	6
86A-5/16"	45-60	45 max.	6
86A-3/8"	45-60	45 max.	20
86A-7/16"	45-60	45 max.	20
86A-1/2"	45-60	45 max.	20
86A-5/8"	45-60	45 max.	30
86A-3/4" X 8"	45-60	45 max.	30
86A-3/4" X 12"	45-60	45 max.	30
86A-7/8" X 8"	45-60	45 max.	30
86A-7/8" X 12"	45-60	45 max.	30
86A-1" X 8"	45-60	45 max.	30
86A-1" X 12"	45-60	45 max.	30

86A-X/XX CHISELS

CODE	A		B		LENGTH L		WEIGHT	
	in	mm	in	mm	in	mm	grs	lbs
86A-3/16"	1/4"	6.35	3/16"	4.76	4 7/8"	123.83	17	0.04
86A-1/4"	5/16"	7.94	1/4"	6.35	5 1/8"	130.18	32	0.07
86A-5/16"	2/8"	9.53	5/16"	7.94	5 3/8"	136.53	51	0.11
86A-3/8"	7/16"	11.11	3/8"	9.53	5 1/2"	139.70	78	0.17
86A-7/16"	1/2"	12.70	7/16"	11.11	6"	152.40	114	0.25
86A-1/2"	5/8"	15.88	1/2"	12.70	6 5/8"	168.28	165	0.36
86A-5/8"	3/4"	19.05	5/8"	15.88	7"	177.80	270	0.60
86A-3/4" X 8"	7/8"	22.23	3/4"	19.05	8"	203.20	469	1.03
86A-3/4" X 12"	7/8"	22.23	3/4"	19.05	12"	304.80	695	1.53
86A-7/8" X 8"	1"	25.40	13/16"	20.64	8"	203.20	500	1.10
86A-7/8" X 12"	1"	25.40	13/16"	20.64	12"	304.80	773	1.70
86A-1" X 8"	1 3/16"	30.16	15/16"	23.81	8 1/4"	209.55	670	1.48
86A-1" X 12"	1 3/16"	30.16	15/16"	23.81	12"	304.80	1085	2.39

STANDARDS: FEDERAL GGG-P-831C
ANSI/ASME B209.2



For removing, cutting or breaking materials softer than the chisel.
Designed for removing cold materials such as iron, brass, bronze and steel.
The end opposite the tip is designed for striking.



the toolsthatstartwithU




Superior
Quality
Affordable Tools

Visit our website: www.urrea.com

SET OF 3 ALIGNMENT BARS

21003

3 PIECES

CODE	DISTANCE BETWEEN HEXAGON SURFACES B	LENGTH L
		
	in.	in.
2116	1/2"	14"
2120	5/8"	16"
2126	1/2"	16"




The blade tip is used mainly for alignment work.



The angled and chisel tips provide better leverage when used for disassembling wood packing or machinery components.

ALIGNMENT BARS

21XX


CODE	DISTANCE BETWEEN HEXAGON SURFACES B	LENGTH L	WEIGHT	
				
	in.	in.	grs	lbs
2116	1/2"	14"	324	0.71
2120	5/8"	16"	550	1.21
2124	3/4"	20"	1013	2.23
2125	7/8"	30"	2267	5.00



Useful tool for prying.
Aligning and positioning mechanical parts or pipe flanges.

HEAD ALIGNMENT PRY BARS

21XX

CODE	DISTANCE BETWEEN HEXAGON SURFACES B	LENGTH L	WEIGHT	
				
	in.	in.	grs	lbs
2126	1/2"	16"	419	0.92
2130	5/8"	18"	702	1.55



Code 2126
Head alignment pry bars.

Alignment bars have a wide variety of uses, including aligning, adjusting, moving or dismantling metal or wooden parts.







**SAFETY RECOMMENDATIONS
STRIKING TOOLS**



Never use a hammer on a wrench unless it is designed for such use.



Never strike one hammer with another.



Never use soft-face hammers to strike nails, screws or sharp metal objects.



Never strike with the side of a hammer.



The head of a hammer for striking a chisel should be approximately 75% larger than the chisel.



Never use a hammer with a damaged handle.

10



Always strike the heads of punches, chisels and nail sets squarely. Always strike so that the face of the hammer is perpendicular to the striking surface. Avoid grazing blows.



Always use safety glasses when working with tools.