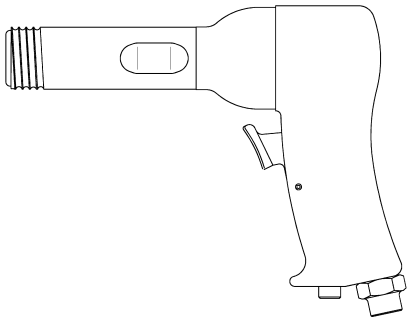
SBH, BRH, UFC, AA & PB SERIES
Hammers
Instruction Handbook

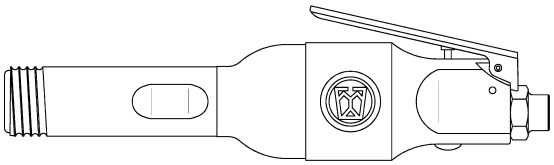
-Read and understand the safety instructions before installing, operating, repairing, maintaining, changing accessories on or working near the hammer. Failure to follow the warnings and instructions in this handbook can result in serious bodily injury.
-Do not discard the safety and operating instructions. Give them to the operator. Retain these instructions for future reference.

Intended Use : The tool is designed for cutting, ripping, and punching by using various chisels.

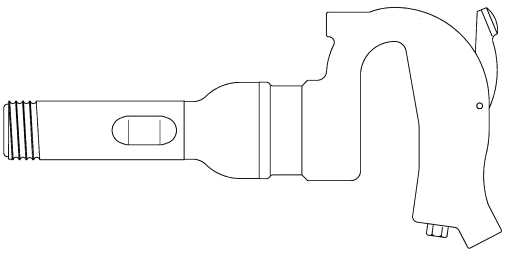
-The tool is intended for professional use only.
-Avoid misuse and abuse of the tool.
(e.g. Do not throw the tool on the floor, strike the housing in any way or use the tool as a hammer to knock material into place.)



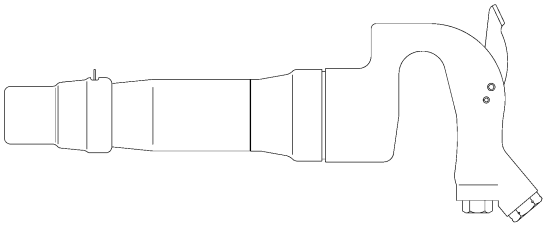
Pistol Grip type Riveting hammer



Straight type Riveting hammer



Chipping hammer



Chipping hammer with Chisel Retainer Assembly

URYU SEISAKU, LTD.
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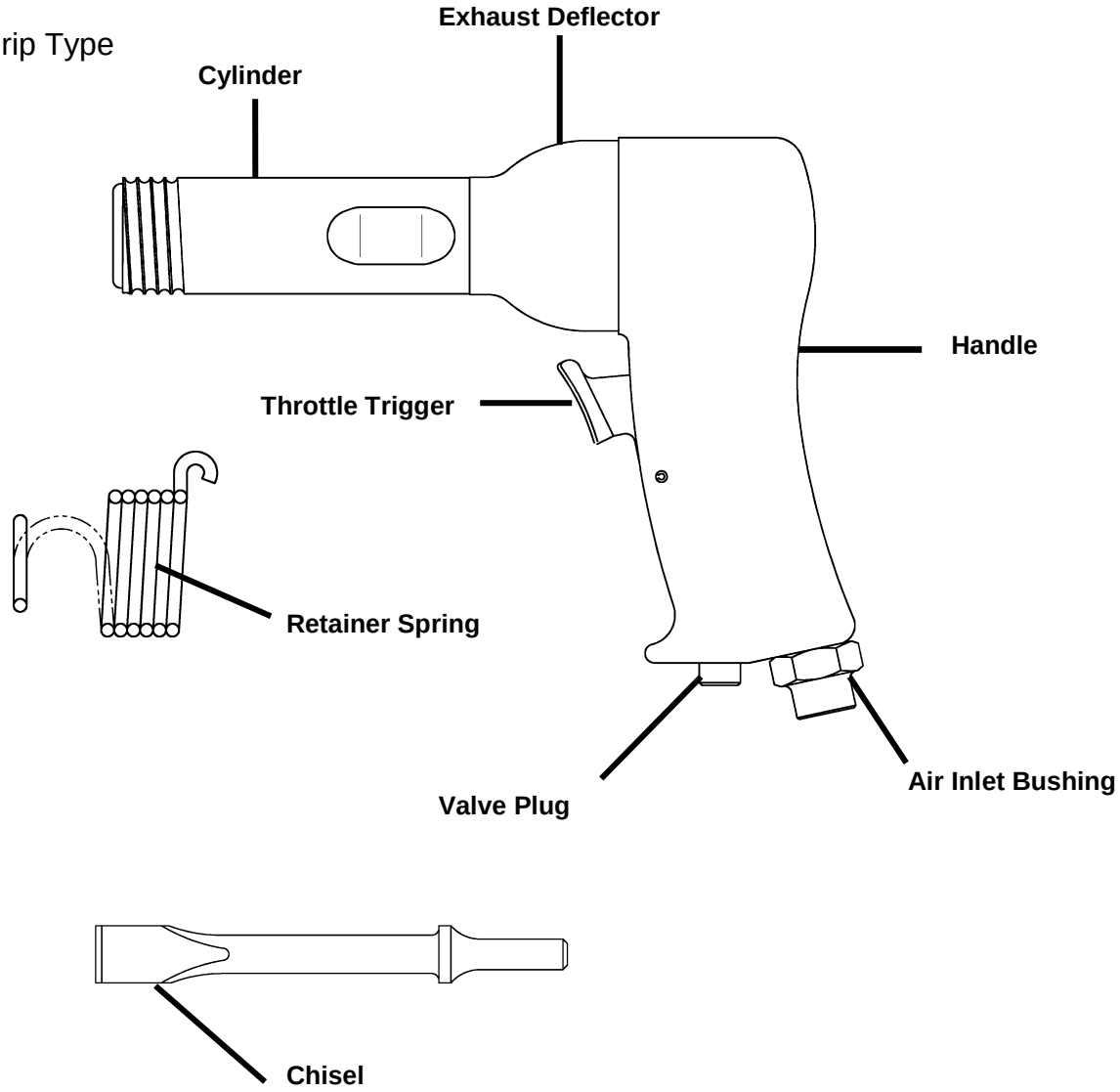
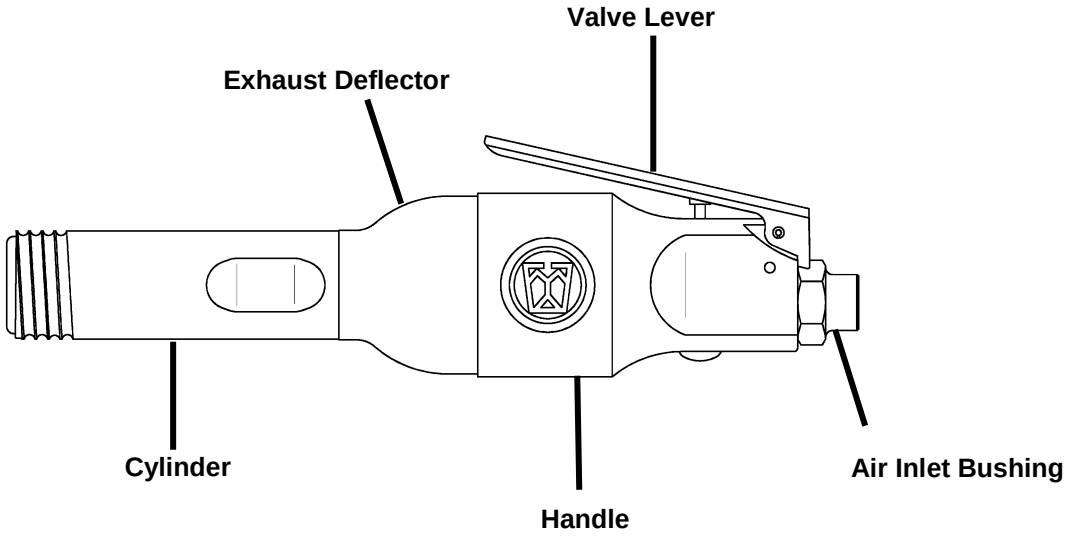
Tel. : +81-(0)6-6973-9415 Fax : +81-(0)6-6972-0346
E-mail : uryuair@uryu.co.jp http : www.uryu.co.jp/english

Description of Functions

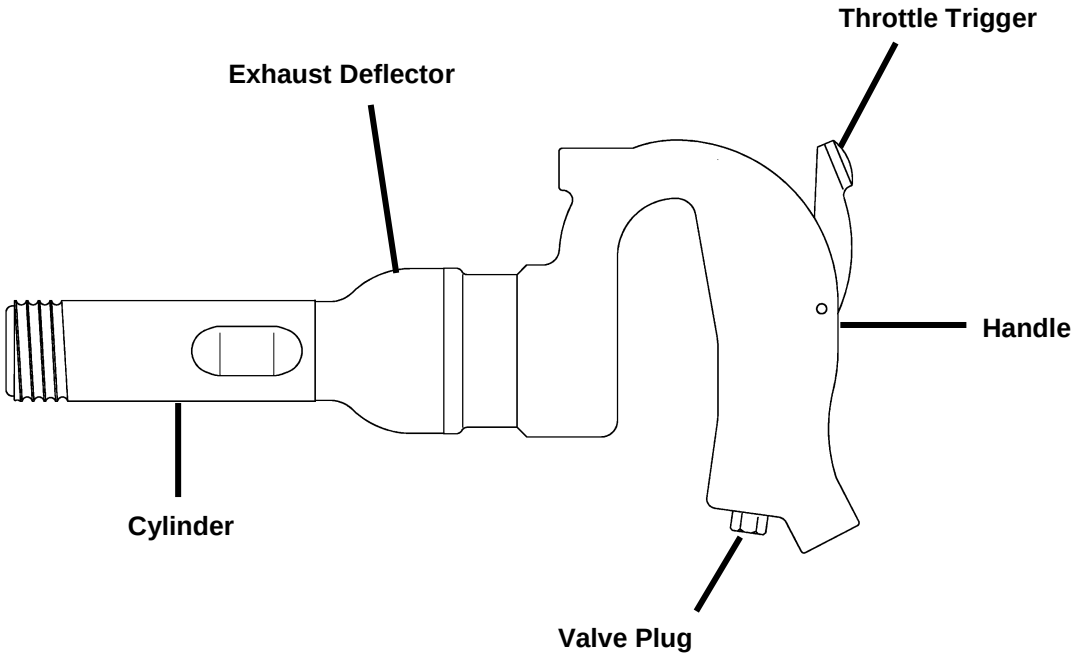
Pistol Grip Type



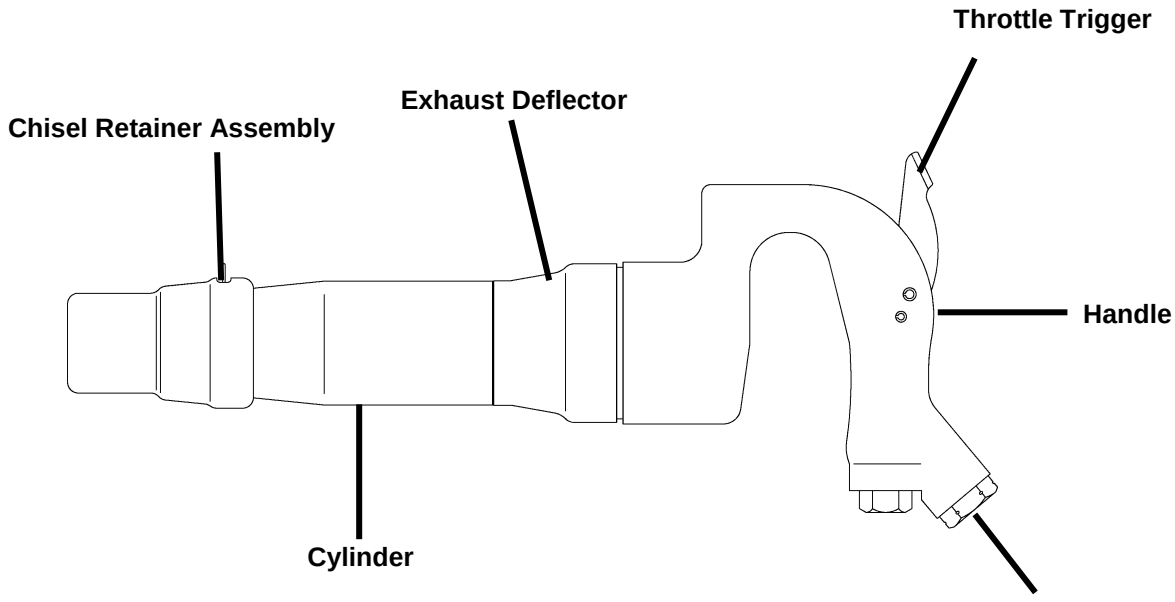
Straight Handle Type

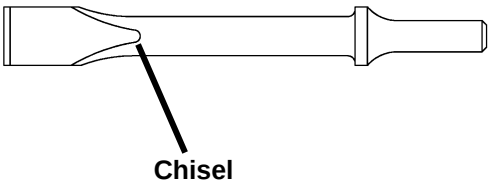


Grip Handle type



Grip Handle type with Chisel Retainer Assembly





Chisel Retainer Assembly
727-847-6

AA-20, 30, 40, PB-20, 30
Standard Accessories
(Chisel not included)

Safety Instructions

General Safety

-Only qualified and trained operators should install, adjust or use the tool. Operators and maintenance personnel must be physically able to handle the bulk, weight and power of the tool.
-Do not modify the tool. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.
-Stop using the tool if discomfort, tingling feeling or pain occurs.

Work Area Safety

-Keep work area clean and well lit. Cluttered or dark areas invite accidents.
-Do not use the tool in potentially explosive atmospheres, such as in the presence of flammable liquids, gases or dust. The tool is not insulated from coming into contact with electric power. Proceed with care in unfamiliar surroundings. Hidden hazards may exist.
-Always secure workpiece. Use clamps or other practical way to secure and support the workpiece to a stable platform. Holding the workpiece by hand or against your body is unstable and may lead to loss of control.
-Be aware of slippery surfaces caused by use of the tool and of trip hazards caused by the air line.
-Keep bystanders, children and visitors away while operating the tool. Distraction can cause you to lose control.
-Make sure there are no electrical cables, gas pipes, etc., that can cause a hazard if damaged by use of the tool.
-Risk assessment should include dust created by the use of the tool and the potential for disturbing existing dust.

Pneumatic Safety

-The tool is designed to be operated on a working pressure of 0.5MPa – 0.6MPa (5-6Bar).
-Always shut off air supply, drain hose of air pressure and disconnect the tool from air supply when not in use, before changing accessories or when making repairs. Plug the air inlet when not in use.
-Use correct hoses and always check for damaged or loose hoses and fittings. Whipping hoses can cause severe injury.
-An accessible means to shut off air supply should be provided at each tool station.
-Do not use quick-disconnect couplings at tool inlet. Use hardened steel (or material with comparable shock resistance) threaded hose fittings.
-Whenever universal twist couplings (claw couplings) are used, install lock pins and use whipcheck safety cables to safeguard against possible hose-to-tool and hose-and-hose connection failure.
-Do not abuse the hose. Never use the hose for carrying, pulling or hanging the tool.
-Keep the hose away from heat, oil, sharp edges or moving parts. Damaged or entangled hoses increase the risk.
-Release the throttle trigger / lever in the case of an interruption of the air supply.
-Never direct air at yourself or anyone else.

Personal Safety

-Stay alert, watch what you are doing and use common sense when operating the tool. Do not use any tool while you are tired or under the influence of drugs, alcohol or medication. A moment of inattention while operating a tool may result in serious personal injury.
-Maintain a balanced body position and secure footing. Avoid awkward or off-balanced postures. Change the posture during extended tasks, which may help to avoid discomfort and fatigue. If the operator experiences symptoms such as persistent or recurring discomfort, pain, throbbing, aching, tingling, numbness, burning sensation or stiffness, the operator should tell the employer and consult a qualified health professional immediately.
-Prevent unintentional or inadvertent start. Ensure that the throttle trigger / lever is in the off-position before connecting the tool to air supply, picking up or carrying the tool. Carry the tool only by the handle. Carrying the tool with your finger on the throttle trigger / lever or energising the tool that has the throttle trigger / lever on invites accidents.
-Keep hands and clothing away from the working end of the tool.
-Dress properly. Do not wear loose-fitting clothing, jewellery and neck ware. Be careful that long hair is not drawn in the tool during the operation.
-Use personal protective equipments such as dust mask, non-skid safety shoes and hard hat as instructed by the employer and as required by occupational health and safety regulations.
-Wear suitable gloves to protect hands against hazards including cuts and abrasions and heat. When using gloves, always be sure that the gloves will not prevent the throttle mechanism from being released.
-Do not operate or trigger any tool unless the chisel is in the tool and in contact with the work piece or work surface. Failure to do so can cause serious inquiry and/or damage the tool. Never point any tool in the direction of another person on yourself.
-For overhead work, wear a safety helmet.
-Never operate a tool unless the inserted tool is retained in the tool with proper retainer.

-Always wear impact-resistant eye protection during the operation of the tool. The grade of protection required should be assessed for each use.
-Ensure that the workpiece is securely fixed.

Noise

-Unprotected exposure to high noise levels can cause permanent, disabling, hearing loss and other problems such as tinnitus (ringing, buzzing, whistling or humming in the ears). Risk assessment and implementation of appropriate controls for these hazards are essential.
-Appropriate controls to reduce the risk may include actions, such as damping materials to prevent workpieces from “ringing”.

-Use hearing protection in accordance with employer’s instructions and as required by occupational health and safety regulations.
-Always ensure that the silencer is in place and in good working order when the tool is operating.

Vibration

-Exposure to vibration can cause disabling damage to the nerves and blood supply of the hands and arms.
-If you experience numbness, tingling, pain or whitening of the skin in your fingers or hands, stop using the tool, tell the employer and consult a physician immediately.
-Support the weight of the tool in a stand, tensioner or balancer if possible.
-Hold the tool with a light but safe grip taking account of the required hand reaction forces. The risk from vibration is generally greater when the grip force is higher.

-Wear warm clothing when working in cold conditions and keep your hands warm and dry. Direct cold air away from the hands.
-Do not allow the inserted tool to chatter on the workpiece as this is likely to cause a substantial increase in vibration.
-Do not hold the inserted tool with the free hand, as this increases vibration exposure.
-Keep suspended handles in the central position and avoid pushing the handles into the end stops.

Dust and Fumes
-Dust and fumes generated when using the tool can cause ill health (e.g. cancer, birth defects, asthma and/or dermatitis). Risk assessment and implementation of appropriate controls for these hazards are essential.
-Direct the exhaust so as to minimise disturbance of dust in a dust-filled environment. Where dusts or fumes are created, the priority shall be to control them at the point of emission.

Residual Risks
-Additional residual risks may arise when using the tool which may not be included in the safety warnings. These risks can arise from misuse, prolonged use and so on. Even with the application of the relevant safety regulations and the implementation of safety devices, certain residual risks cannot be avoided. (e.g. injuries caused when changing any parts, blades or accessories)
-When using a tool to perform work-related activities, the operator can experience discomfort in the hands, arms, shoulders, neck or other parts of the body.
-Be aware that failure of the workpiece, or accessories, or even of the inserted tool itself can generate high-velocity projectiles.

Tool Use and Care
-Hold the tool correctly: be ready to counteract normal or sudden movements – have both hands available.
-Keep the tool dry and clean – free from oil and grease for better control of the tool.
-Do not force the tool. Use the correct tool for your application. The correct tool will do the job better and safer at the rate for which it is designed.
-Store the tool out of the reach of children and do not allow persons unfamiliar with these instructions to operate the tool. Tools are dangerous in the hands of untrained users.

Operating Instructions

Air Pressure
- The tool is designed to be operated on a working pressure of 0.5MPa – 0.6MPa (5-6Bar).

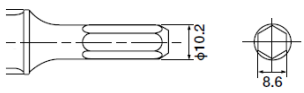
Air Hose and Fitting
-Use the correct hoses and fittings for safety operation and optimum performance. See technical specifications for air hose sizes and air inlet threaded.
-Blow out the air hose before connecting a tool.

Dry and Clean Air
-Air filter and oil-fog lubricator should be preferably installed in a position within 3m from the tool.
-Dust, wear particles, corrosive fumes and excessive moisture cause rust and sticking of vanes and ruin the motor.

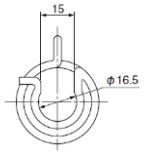
Accessories

Standard Accessories

Model	Retainer Spring	Rivet Sets
SBH-0	①	a,b
SBH-1A (R)	②, ⑤	c,i
BRH-1U (R) Series	②, ⑤	d,i
BRH-1U (H) Series	②, ⑤	
BRH-5U (R) Series	④, ⑤	g,i
BRH-5U (H) Series	④, ⑤	

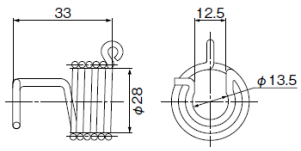


SHANK SIZE for BRH-5U(H) series



SPRING CHISEL RETAINER 876-179-1

714-813-2 Retainer Spring for BRH-7



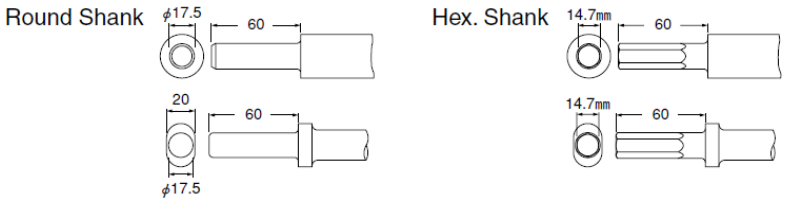
RIVETS for SBH & BRH Series (mm)

	Retainer Spring Part Number		Rivet Set Part Number		Model
Round Shank	① 700-810-1		a 920-810-0		SBH-0
			b 920-004-0		
	② 705-810-1		c 920-020-0		SBH-1A (R) BRH-1U (R) Series BRH-5U (R) Series
			d 920-021-0		
	③ 710-811-1		e 920-030-0		SBH-1A (R) BRH-1U (R) Series BRH-5U (R) Series
			f 920-032-0		
	④ 710-812-1		g 920-040-0		BRH-5U (R) Series
			h 920-042-0		
	⑤ 876-179-1		i 920-800-0		SBH-1A (R) BRH-1U (R) Series BRH-5U (R) Series

AA-00

Shank size of chisel for AA-00 series

Shank size of chisel for AA & PB series



-Chisel or rivet set retainer are recommended and furnished as standard equipment.
-Never use any chisel as a hand-struck tool. They are specifically designed and heat-treated for use only in hammer tool.
-Never use blunt chisel as they require excessive pressure and can break from fatigue. Blunt tool-pieces can increase vibration and, therefore, sharp tools should always be used.
-Never cool a hot accessory in water. Brittleness and early failure can result.
-Chisel breakage or tool damage can result from misuse of using the tool as a lever, e.g. prising. Take smaller “bites” to avoid getting stuck
-Avoid direct contact with the inserted tool during and after use, as it can be hot or sharp.
-Periodical inspection of the retainer for wear or damage is recommended since these devices can receive heavy abuse, particularly if the tool is run off the workpiece.
-To avoid inquiry, retainer parts shall be replaced when they become worn, cracked or distorted.
-It is good safety practice to erect suitable barriers to protect persons in surrounding or lower work areas from possible ejected tools.
-

Throttle Trigger / Lever
-Grip the handle firmly and pull the throttle trigger or depress the throttle lever slowly to start operation.

Exhaust Air
-The direction of the exhaust air is adjustable for eye and ear protection.
-Silencer turns for your adjustment.

Suspension Device (available for straight type only)
-When using a suspension ring, check that it is in good condition and correctly assembled.

Maintenance Instructions

-Continuous satisfactory operation depends upon proper tool care and regular maintenance. Tools shall be inspected to verify the ratings and markings required by this part of ISO 11148 are legibly marked on the tool. The employer/user shall contact the manufacturer to obtain replacement making labels when necessary.
-Have the tool serviced by a qualified repair person.
-Use only URYU genuine parts for replacement. This will ensure that the safety and the optimum performance of the tool are maintained.

Lubrication
-It is important to lubricate regularly to get maximum performance and trouble-free operation
-Supply light turbine oil properly through Air Inlet or Line Oiler every before and after operation. (for example, MOBIL TURBINE OIL #32, SHELL TURBINE OIL #32 and or equivalents.)
-Do not lubricate the tool with flammable or volatile liquids such as kerosene, diesel or jet fuel.

Overhaul
-It is recommended to inspect the tool at least every 3 months for wear or damage of the components.
If the tool is in heavy duty operation or running improperly, inspect the tool more frequently.
-Ensure that any labels on the tool are kept in legible condition. Replace any damaged label.

Disposal of Tool

-The tool is made of steel, aluminium alloy, casting iron, plastic, rubber and so on. When disposing the tool, make sure not to cause pollution to human being and environment.

-It is recommended to inspect the tool at least every 3 months intervals for wear or damage of the components. If the tool is in heavy duty operation or running improperly, it is also recommended to inspect it more frequently. Replace damaged or worn out parts. This inspection and overhaul requires authorized trained personnel.

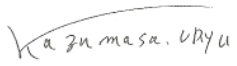
-Use only URYU’s genuine spare parts for replacement.

-Maintenance and repair records should be kept on all tools.

-For further information, contact at any time your nearest URYU distributor or direct to URYU in Japan.

EC DECLARATION OF CONFORMITY
MACHINERY DIRECTIVE

WE, URYU SEISAKU, LTD., DECLARE UNDER OUR SOLE RESPONSIBILITY THAT SBH, BRH UFC, AA AND PB SERIES HAMMERS CONFORM WITH THE HARMONISED INTERNATIONAL STANDARD,ISO 11148-4:2010 AND THEREFORE COMPLY WITH THE ESSENTIAL REQUIREMENTS OF THE EUROPEAN PARLIAMENT AND THE COUNCIL DIRECTIVE, 2006/42/EC (17 MAY 2006) ON MACHINERY.



KAZUMASA URYU, EXECUTIVE DIRECTOR
URYU SEISAKU, LTD.
OSAKA, JAPAN
5 JANUARY 2017

Technical Specifications

Specifications subject to change without prior notice

Model	Reveting Capacity				Blow Par Min. (about)	Overall Length (about)		Weight less Rivet Set (about)		Piston Diameter (about)		Piston Stroke (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption		ISO 15744 Sound Pressure Level (L_{PA})	ISO 15744 Sound Power Level (L_{WA})	ISO 28927-10 Vibration Total Value (A_{hd})	ISO 28927-10 Vibration Uncertainly (K)
	Duralumin		Steel																			
	mm	in	mm	in	b.p.m	mm	in	kg	in	mm	in	mm	in	in	mm	in	m^3/min.	ft^3/min	dB(A)	dB(A)	m/sec^2	m/sec^2
REVETING HAMMERS																						
SBH-0	2.3	No.2	-	-	6500	123	4 27/32	0.32	0.7	10.00	25/64	23	29/32	NPT1/4	6.35	1/4	0.10	3.5	90	101	<2.5	0.6
SBH-1A (R, H)	2.6	No.3	-	-	4000	209	8 15/64	0.86	1.9	11.11	7/16	56	2 3/16	NPT1/4	6.35	1/4	0.15	5.0	92	103	2.1	0.9
BRH-1U (R, H)	3.2	No.5	2.4	No.3	2800	122	4 15/16	1.05	2.4	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	95	106	7.8	1.1
BRH-1US (R, H)	3.2	No.5	2.4	No.3	2800	180	7 1/8	1.00	2.2	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	95	106	7.5	1.1
BRH-1UG (R, H)	3.2	No.5	2.4	No.3	2800	187	7 3/8	1.78	3.9	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	95	106	7.5	1.1
BRH-5U (R, H)	6.4	1/4	4.8	No.10	1800	190	7 1/2	1.40	3.1	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	95	106	7.6	1.1
BRH-5US (R, H)	6.4	1/4	4.8	No.10	1800	248	9 25/32	1.45	3.2	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	95	106	7.4	1.1
BRH-5UG (R, H)	6.4	1/4	4.8	No.10	1800	255	10 3/16	2.13	4.7	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	95	106	7.3	1.1
BRH-1UV (R, H)	3.2	No.5	2.4	No.3	2800	162	8 3/8	1.37	3.0	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	91	102	5.1	0.9
BRH-5UV (R, H)	6.4	1/4	4.8	No.10	1800	227	8 15/16	1.68	3.7	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	91	102	5.5	0.9
BRH-1USV (R, H)	3.2	No.5	2.4	No.3	2800	271	10 21/32	1.60	3.5	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	91	102	4.5	0.9
BRH-5USV (R, H)	6.4	1/4	4.8	No.10	1800	338	13 5/16	1.90	4.1	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.34	12.0	91	102	5.1	0.9
BRH-1UD (R, H)	3.2	No.5	2.4	No.3	2800	143	5 5/8	1.40	3.1	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	89	100	<2.5	0.9
BRH-5UD (R, H)	6.4	1/4	4.8	No.10	1800	211	8 5/16	1.65	3.6	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	89	100	<2.5	0.9
BRH-1USD (R, H)	3.2	No.5	2.4	No.3	2800	272	10 45/64	1.60	3.5	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	89	100	<2.5	0.9
BRH-5USD (R, H)	6.4	1/4	4.8	No.10	1800	340	13 25/64	1.90	4.18	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	89	100	<2.5	0.9

Model	Blow Par Min. (about)	Overall Length (about)		Weight less Chisel (about)		Piston Diameter (about)		Piston Stroke (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption		ISO 15744 Sound Pressure Level (L_{PA})	ISO 15744 Sound Power Level (LWA)	ISO 28927-10 Vibration Total Value (A_{hd})	ISO 28927-10 Vibration Uncertainly (K)
	b.p.m	mm	in	kg	lb	mm	in	mm	in	in	mm	in	m^3/min.	ft^3/min	dB(A)	dB(A)	m/sec^2	m/sec^2
IMPACT CUTTERS & FLUX CHIPPERS																		
BRH-7 (R, H)	3400	190	7 1/2	1.64	3.60	19.05	3/4	50	1 31/32	NPT1/4	9.5	3/8	0.48	17.0	100	111	7.5	1.1
UFC-0N	5300	180	7 1/8	1.38	3.04	25.00	63/64	28	1 1/4	NPT1/4	9.5	3/8	0.3	10.7	90	101	6.0	1
UFC-1N	4200	190	7 1/2	1.50	3.30	25.00	63/64	34	1 11/32	NPT1/4	9.5	3/8	0.3	10.7	90	101	5.9	1

Model	Chisel Shank Size				Blow Par Min. (about)	Overall Length (about)		Weight less Chisel (about)		Piston Diameter (about)		Piston Stroke (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption		ISO 15744 Sound Pressure Level (L_{PA})	ISO 15744 Sound Power Level (LWA)	ISO 28927-10 Vibration Total Value (A_{hd})	ISO 28927-10 Vibration Uncertainly (K)
	Round		Hexagonal																			
	mm	in	mm	in	b.p.m	mm	in	kg	in	mm	in	mm	in	in	mm	in	m^3/min.	ft^3/min	dB(A)	dB(A)	m/sec^2	m/sec^2
CHIPPING & CAULKING HAMMMERS																						
AA-00 (R,H)	12.7	1/2	10.5	3/8	2700	228	8 31/32	2.3	5.00	20.0	25/32	50	1 31/32	NPT1/4	9.5	3/8	0.35	12.3	95	106	5.0	0.9
AA-20 (R,H)	17.5	5/8	14.7	9/16	2300	270	10 5/8	5.3	11.60	28.0	1 7/64	55	2 5/32	NPT3/8	12.7	1/2	0.60	21.1	100	111	5.6	1.0
AA-30 (R,H)	17.5	5/8	14.7	9/16	2000	298	11 23/32	5.7	12.50	28.0	1 7/64	79	3 1/8	NPT3/8	12.7	1/2	0.60	21.1	100	111	6.0	1.0
AA-40 (R,H)	17.5	5/8	14.7	9/16	1450	340	13 3/8	6.1	13.40	28.0	1 7/64	111	4 3/8	NPT3/8	12.7	1/2	0.60	21.1	100	111	6.3	1.0
PB-20 (R, H)	17.5	5/8	14.7	9/16	1900	350	13 25/32	6.6	14.40	28.5	1 1/8	76	3	NPT3/8	12.7	1/2	0.80	28.0	100	111	6.6	1.0
PB-30 (R, H)	17.5	5/8	14.7	9/16	1500	397	15 5/8	7.1	15.60	28.5	1 1/8	102	4 1/62	NPT3/8	12.7	1/2	0.80	28.0	100	111	7.1	1.1

R: Round Bushing H:Hexagonal Bushing
The uncertainty in the sound levels is 3 dB(A).

These declared values were obtained by laboratory type testing in accordance with ISO15744 for sound levels and ISO28927-10 for vibration levels. These declared values are not adequate for use in risk assessments and values measured in individual work places may be higher. The actual exposure values and risk of harm experienced by an individual user are unique and depend upon the way the user works, the workpiece and the workstation design as well upon the exposure time and the physical condition of the user.

We, URYU SEISAKU, LTD., cannot be held liable for the consequences of using the declared values, instead of values reflecting the actual exposure, in an individual risk assessment in a work place situation over which we have no control.

For further information, contact your nearest URYU distributor or URYU Japan.
Find URYU distributor in your country at www.uryu.co.jp/english/network.html.

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