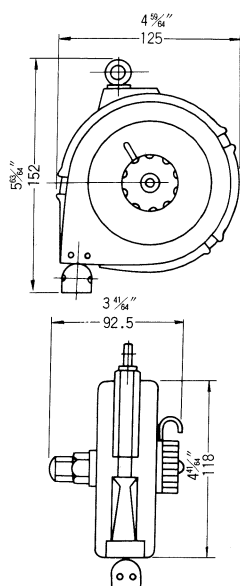
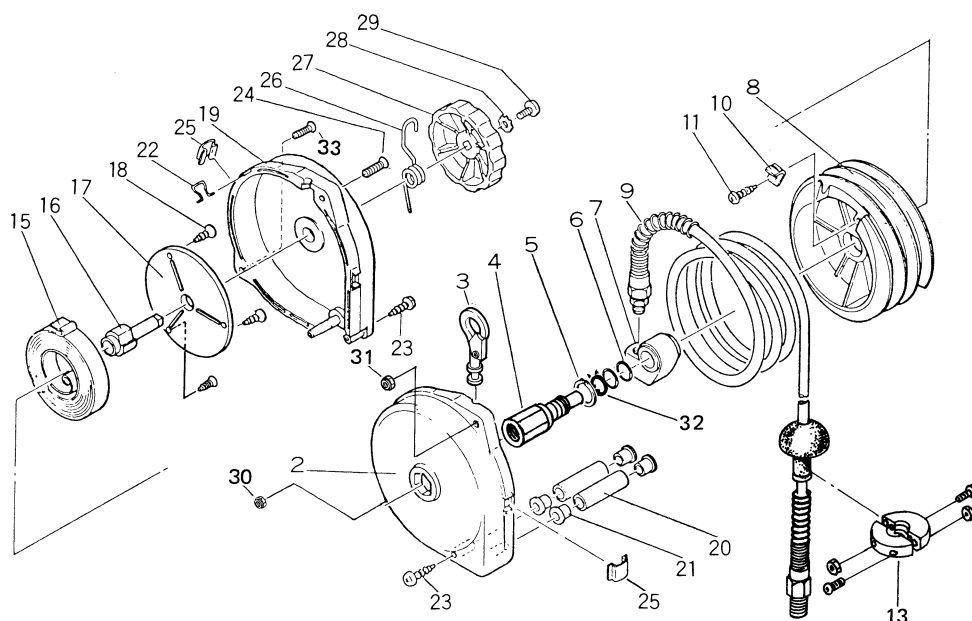


LINE REEL LR-09

DIMENSIONS



EXPLODED VIEW



PARTS LIST

Index. No.	Code No.	Part Name	Quantity	Index. No.	Code No.	Part Name	Quantity
# 2	861-102-1	Front Casing	1	# 19	861-116-1	Rear Casing	1
# 3	861-103-1	Suspension Ring	1	# 20	861-117-1	Guide Roller	2
# 4	861-132-1	Rotary Shaft	1	# 21	861-118-1	Guide Roller Bushing	4
# 5	979-115-0	Outer Snap Ring (18)	1	# 22	861-119-1	Auxiliary Suspension Bail	1
# 6	990-008-0	O Ring (P-10)	2	# 23	963-270-0	Tapping Screw (2 x M3 x 30)	2
# 7	861-105-1	Hose Joint	1	# 24	957-453-0	Oval Flush Head Screw (M4 x 16)	1
# 8	861-106-1	Balancing Wheel	1	# 25	861-122-1	Fastener	2
# 9	861-130-1	Air Hose Assembly (2000 mm)	1	# 26	861-123-1	Locking Spring	1
# 10	861-108-1	Hose Holder	1	# 27	861-124-1	Adjusting Dial	1
# 11	963-260-0	Tapping Screw (1-M3 x 14)	1	# 28	962-505-0	Notched Spacer (5S)	1
# 13	861-111-1	Stopper	1	# 29	957-222-0	Cross Pan Head Screw (M5 x 12)	1
		(with setting screws and nuts)	1	# 30	960-802-0	U-Nut (M3)	1
# 15	861-112-1	Spring for LR-09B	1	# 31	960-803-0	U-Nut (M4)	1
# 16	861-113-1	Spring Shaft	1	# 32	861-125-1	Packing	1
# 17	861-114-1	Wheel Cover	1	# 33	957-445-0	Oval Flush Head Screw (M3 x 16)	1
# 18	963-260-0	Tapping Screw (1-M3 x 14)	3				

IMPORTANT!!

- (1) Make sure that the LINE REEL is firmly and properly suspended. Auxiliary suspension is required for additional safety.
- (2) Do not suspend the tool of more than 1.4 kg (3.08 lb) in total weight.
- (3) Adjust the spring tension by the external load adjusting dial to balance the tool properly.
- (4) Adjust the stroke of the air hose for most convenient positioning of the tool. Slide the stopper up or down after loosening the locking screws and lock it at the required position.
- (5) Every three (3) month regular check on the following points is required for safe operation.
 1. Condition of suspension bail, wire and all other parts for suspension. If faulty, worn, damaged or improperly conditioned, replace or fix them.
 2. Make sure that no fastener is loosen.
 3. If some abnormal noise is observed in use, disassemble the balancer and fix it.
 4. Make sure that the air hose and fitting are perfect in condition.

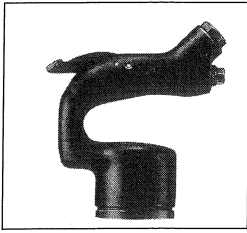
Distributed by:

Printed in Japan

URYU SEISAKU, LTD.

Claims must be filed only with distributors within ten (10) days from delivery.

PB-SERIES CHIPPING HAMMERS



EXPLODED VIEW

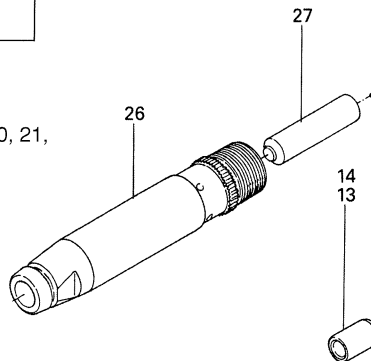
Handle Assembly

Code No.727-001-5

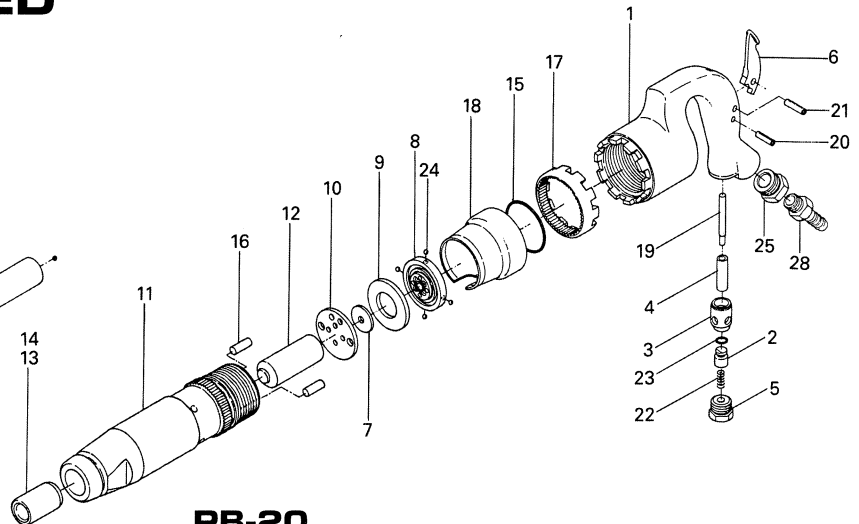
Components

(#1, 2, 3, 4, 5, 6, 19, 20, 21, 22, 23)

PB-30



PB-20



PARTS LIST

Handle Assembly Components are marked with "○".

Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity
# 1	727-010-5	○ Handle	1	#11	727-286-5	Cylinder(PB-20Type)	1	#21	973-345-0	○ Roll Pin (6×20)	1
# 2	727-100-5	○ Valve	1	#12	727-546-5	Piston (PB-20Type)	1	#22	976-277-0	○ Spring (6.7×34)	1
# 3	727-102-5	○ Valve Bushing	1	#13	727-567-5	Bushing (R)	1	#23	990-005-0	○ O-Ring (P7)	1
# 4	727-103-5	○ Valve Rod Bushing	1	#14	778-567-5	Bushing (H)	1	#24	981-004-0	Ball (3/16)	4
# 5	727-108-5	○ Valve Plug	1	#15	990-046-0	O-Ring (P50)	1	#25	727-091-5	Air Inlet Bushing	1
# 6	727-107-5	○ Throttle Trigger	1	#16	727-761-5	Notch Pin	2	#26	728-286-5	Cylinder (PB-30Type)	1
# 7	727-195-5	Main Valve	1	#17	727-562-5	Lock Sleeve	1	#27	728-546-5	Piston (PB-30Type)	1
# 8	727-198-5	Rear Valve Seat	1	#18	727-782-5	Exhaust Deflector	1	Accessories			
# 9	727-199-5	Medium Valve Seat	1	#19	727-104-5	○ Valve Rod	1	#28	940-124-0	Air Hose Nipple (NPT3/8x1/2-7)	1
#10	727-200-5	Front Valve Seat	1	#20	973-323-0	○ Roll Pin (5×25)	1				

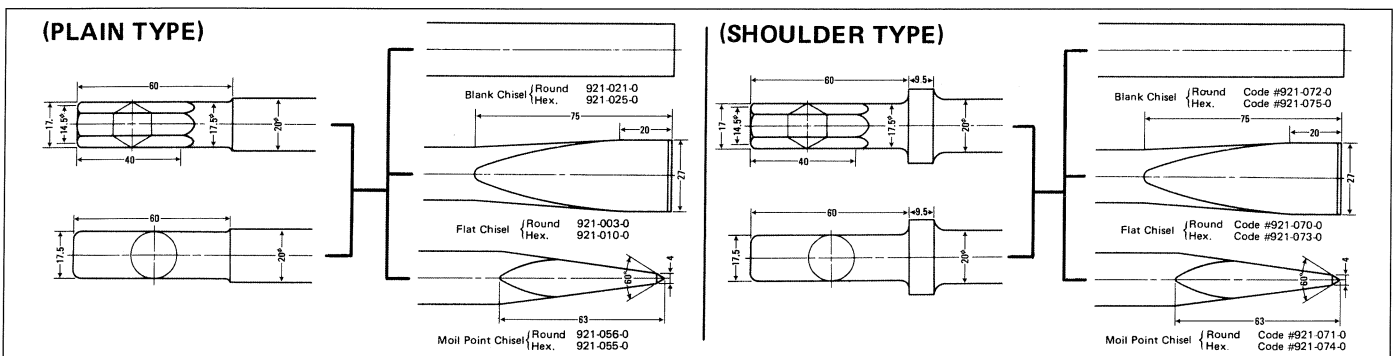
For further information, please contact at any time your nearest URYU distributor.

SPECIFICATIONS

RECOMMENDED AIR PRESSURE : 0.6MPa(85psi)

Model	Blows per minute (about)	Overall Length (about)		Weight (about)		Piston (Dia.×Stroke)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
		in	mm	lb	kg	in	mm		in	mm	ft ³ /min	m ³ min
PB-20(R)(H)	1,900	13 25/32	350	14.5	6.6	1 1/8×3	28.5×76	N.P.T. 3/8	1/2	12.7	2.8	0.8
PB-30(R)(H)	1,500	15 5/8	397	15.6	7.1	1 1/8×4	28.5×102	N.P.T. 3/8	1/2	12.7	2.8	0.8

Chisels (Optional Accessories)



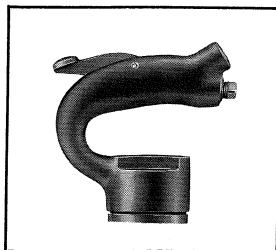
Distributed by

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AA-SERIES CHIPPING HAMMERS



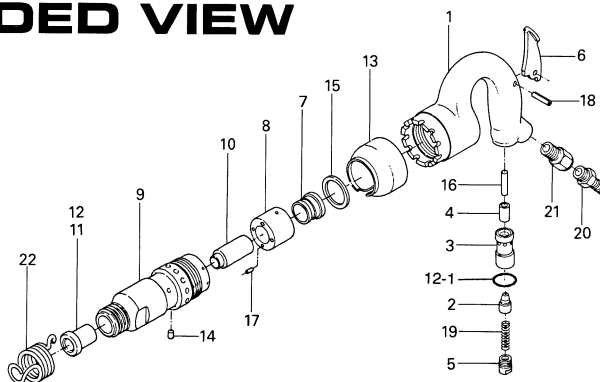
Handle Assembly

Code 719-001-5

Components

(#1, 2, 3, 4, 5, 6, 12-1, 16, 18, 19)

EXPLODED VIEW AA-00

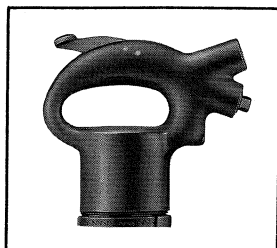


PARTS LIST

Handle Assembly components are marked with "○"

Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity
# 1	719-010-5	○ Handle	1	#13	719-782-5	Exhaust Deflector	1
# 2	722-100-5	○ Valve	1	#14	719-565-5	Lock Sleeve Key	1
# 3	719-102-5	○ Valve Bushing	1	#15	719-872-5	Valve Packing	1
# 4	719-103-5	○ Valve Rod Bushing	1	#16	970-525-0	○ Pin (H) (6×24.5)	1
# 5	722-108-5	○ Valve Plug	1	#17	719-761-5	Notch Pin	1
# 6	719-107-5	○ Throttle Trigger	1	#18	973-320-0	○ Roll Pin (5×20)	1
# 7	719-195-5	Main Valve	1	#19	976-277-0	○ Spring (6.7×34)	1
# 8	719-196-5	Valve Box	1	Accessories			
# 9	719-286-5	Cylinder	1	#20	940-114-0	Air Hose Nipple (NPT1/4×3/8)	1
#10	719-546-5	Piston	1	#21	942-114-0	Connecting Screw (1/4×NPT1/4)	1
#11	719-567-5	Bushing (R)	1	#22	705-813-1	Spring Chisel Retainer	1
#12	772-567-5	Bushing (H)	1				
#12-1	990-005-0	○ O-Ring (P7)	1				

When ordering spare parts, please specify tool type, code number and part name.



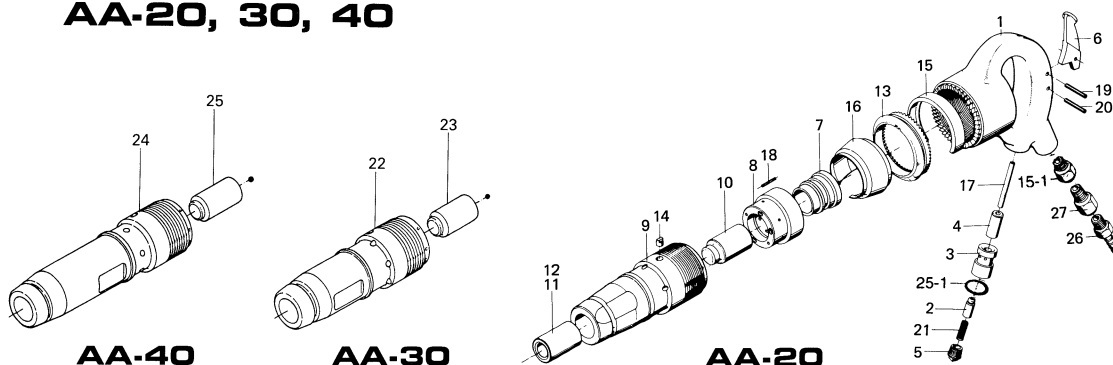
Handle Assembly

Code 722-001-5

Components

(#1, 2, 3, 4, 5, 6, 17, 19, 20, 21, 25-1)

EXPLODED VIEW AA-20, 30, 40



PARTS LIST

Handle Assembly components are marked with "○"

Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity
# 1	722-010-6	○ Handle	1	#16	722-782-5	Exhaust Deflector	1
# 2	722-100-5	○ Valve	1	#17	722-104-5	○ Valve Rod	1
# 3	722-102-5	○ Valve Bushing	1	#18	722-761-5	Notch Pin	1
# 4	722-103-5	○ Valve Rod Bushing	1	#19	973-320-0	○ Roll Pin (5×20)	1
# 5	722-108-5	○ Valve Plug	1	#20	973-321-0	○ Roll Pin (5×22)	1
# 6	722-107-5	○ Throttle Trigger	1	#21	976-277-0	○ Spring (6.7×34)	1
# 7	722-195-5	Main Valve	1	#22	722-286-5	Cylinder (AA-30 Type)	1
# 8	722-196-5	Valve Box	1	#23	722-546-5	Piston (AA-30 Type)	1
# 9	721-286-5	Cylinder (AA-20 Type)	1	#24	723-286-5	Cylinder (AA-40 Type)	1
#10	721-546-5	Piston (AA-20 Type)	1	#25	723-546-5	Piston (AA-40 Type)	1
#11	722-567-5	Bushing (R)	1	#25-1	990-005-0	○ O-Ring (P7)	1
#12	775-567-5	Bushing (H)	1	Accessories			
#13	722-562-5	Lock Sleeve	1	#26	940-124-0	Air Hose Nipple (NPT3/8×1/2)	1
#14	722-565-5	Lock Sleeve Key	1	#27	942-123-0	Connecting Screw (3/8×NPT3/8)	1
#15	722-564-5	Lock Sleeve Cover	1				
#15-1	727-091-5	Air Inlet Bushing	1				

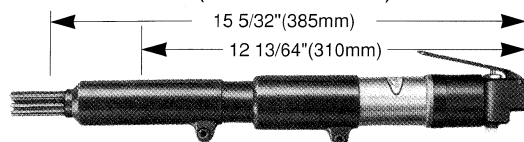
Distributed by:

URYU SEISAKU, LTD.

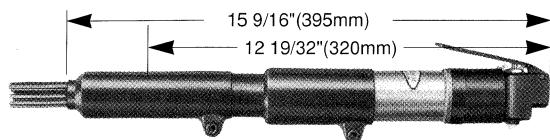
Claims must be filed only with distributors within ten(10)days from delivery.

ATTACHMENTS OF NEEDLE SCALERS

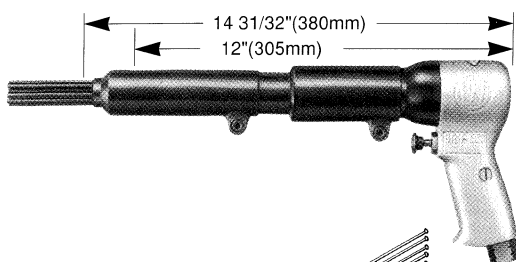
UFC-ON (VALVE-LESS)



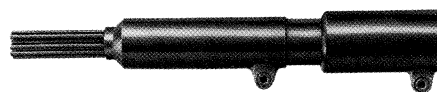
UFC-1N (WITH VALVE)



BRH-7



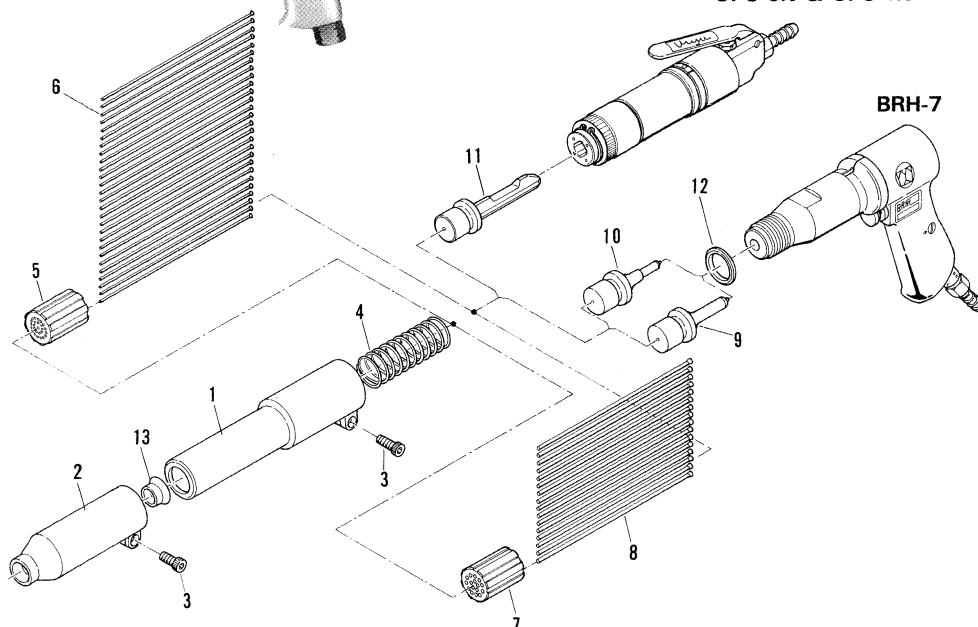
NEEDLE SCALER ATTACHMENTS



COMPLETE SETS

Tool	Needle	Model	Code No.
BRH-7 (R)	2mm ϕ $\times$ 27pcs	NA-21	881-046-1
	3mm ϕ $\times$ 16pcs	NA-31	881-051-1
BRH-7 (H)	2mm ϕ $\times$ 27pcs	NA-23	881-056-1
	3mm ϕ $\times$ 16pcs	NA-33	881-061-1
UFC-series	2mm ϕ $\times$ 27pcs	NA-22	881-031-1
	3mm ϕ $\times$ 16pcs	NA-32	881-041-1

UFC-ON & UFC-1N



INDEX NO.	CODE NO.	PART NAME	QUANTITY	NA-21	NA-31	NA-22	NA-32	NA-23	NA-33
#1	881-034-1	Guide Casing	1	×	×	×	×	×	×
#2	881-035-1	Needle Retainer	1	×	×	×	×	×	×
#3	945-215-0	Allen Head Bolt (M6 $\times$ 15)	2	×	×	×	×	×	×
#4	976-635-0	Spring (28 $\times$ 70)	1	×	×	×	×	×	×
#5	881-033-2	Anvil Casing	1	×	—	×	—	×	—
#6	881-037-1	Needle (2MM)	27	×	—	×	—	×	—
#7	881-042-2	Anvil Casing	1	—	×	—	×	—	×
#8	881-043-1	Needle (3MM)	16	—	×	—	×	—	×
#9	881-047-2	Anvil (R)	1	×	×	—	—	—	—
#10	881-057-2	Anvil (H)	1	—	—	—	—	×	×
#11	881-032-2	Anvil	1	—	—	×	×	—	—
#12	881-048-1	Guide Casing Spacer	1	×	×	—	—	×	×
#13	881-039-1	Needle Retainer Bushing	1	×	—	×	—	×	—

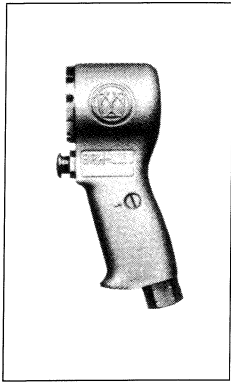
Note: The components of each model are marked with "X".

Printed in Japan

URYU SEISAKU, LTD. Osaka Japan

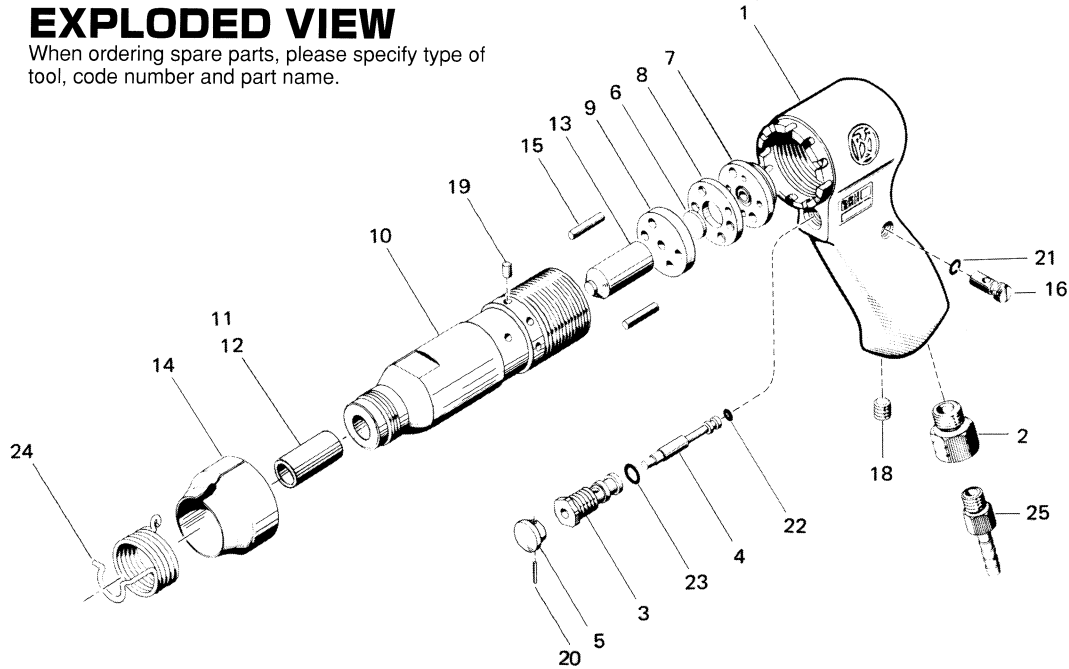
Claims must be filed only with distributors within ten(10)days from delivery.
For further information, please contact at any time your nearest URYU distributor.

BRH-7 SERIES AIR IMPACT CUTTERS



EXPLODED VIEW

When ordering spare parts, please specify type of tool, code number and part name.



Handle Assembly

Code No. 714-984-2

Components

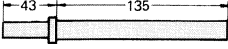
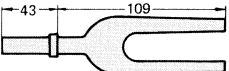
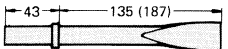
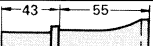
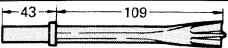
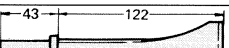
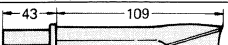
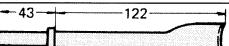
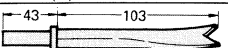
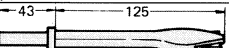
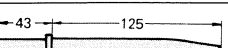
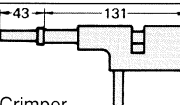
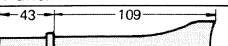
(#1, 2, 3, 4, 5, 16, 18, 20, 21, 22, 23)

PARTS LIST

Handle Assembly components are marked with an "○".
Parts marked with "*" are at the User's choice.

Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity
# 1	714-011-2	○ Handle	1	#15	714-761-1	Cylinder Notch Pin	2
# 2	185-091-7	○ Air Inlet Bushing	1	#16	023-240-1	○ Regulator Valve	1
# 3	603-101-1	○ Valve Bushing	1	#18	966-100-0	○ Allen Head Plug 1/8	1
# 4	603-100-2	○ Valve	1	#19	970-406-0	Pin (H) (5×6.3)	1
# 5	603-107-2	○ Throttle Trigger	1	#20	973-010-0	○ Roll Pin(2×10)	1
# 6	714-195-1	Main Valve	1	#21	990-003-0	○ "O" Ring(P5)	1
# 7	714-198-1	Rear Valve Seat	1	#22	990-203-0	○ "O" Ring(JW1516-3)	1
# 8	714-199-1	Valve Spacer	1	#23	990-610-0	○ "O" Ring(8×2)	1
# 9	714-200-1	Front Valve Seat	1	ACCESSORIES			
#10	714-286-2	Cylinder	1				
#11	705-567-1	* Bushing(R)	1	#24	714-813-1	Spring Chisel Retainer	1
#12	786-567-1	* Bushing(H)	1	#25	940-116-0	Air Hose Nipple(NPT1/4X3/8)	1
#13	714-546-1	Piston	1				
#14	714-782-1	Exhaust Deflector	1				

Standard Chisels marked with "★". Hex. Shank Chisel marked with "●": Min. quantity for ordering are 30~100 pcs. each.

CHISEL	Code No.		CHISEL	Code No.	
	Round Shank	Hex. Shank		Round Shank	Hex. Shank
Blank 	921-095-0	●921-120-0	Fork 	921-097-0	●921-122-0
Flat 	★(7")921-087-0 (9")921-086-0	★921-127-0 921-126-0	Hammer 	921-098-0	●921-123-0
Sheet Metal(A) 	★921-096-0	★921-115-0	Scraper 	★921-088-0	★921-128-0
Sheet Metal(B) 	921-092-0	●921-117-0	Tail Pipe Cutter 	921-093-0	●921-118-0
Spot Weld Breaker 	★921-085-0	★921-125-0	Double Blade Panel Cutter 	921-089-0	●921-129-0
Taper Punch 	921-091-0	●921-121-0	Panel Crimper 	921-099-0	●921-116-0
Bushing Remover 	921-094-0	●921-119-0			

Distributed by

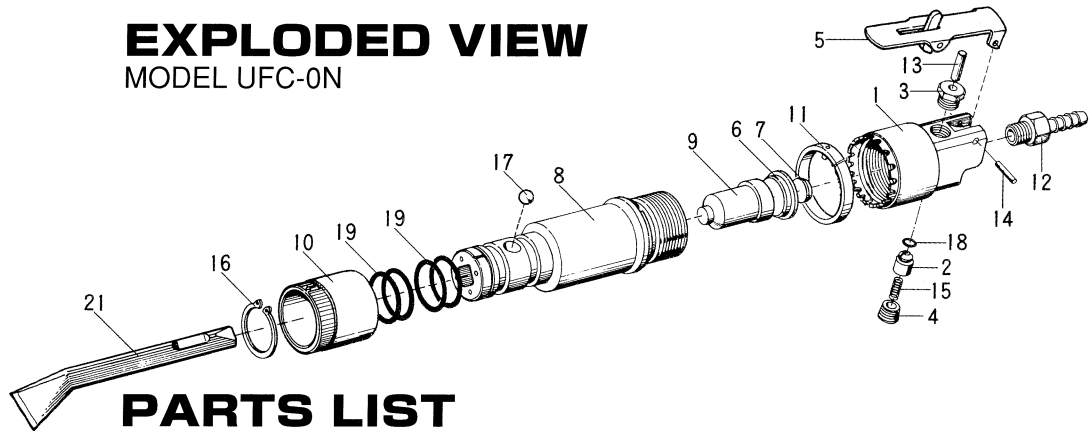
URYU SEISAKU, LTD.

Claims must be filed only with distributors within ten(10)days from delivery.

UFC-SERIES FLUX CHIPPERS

EXPLODED VIEW

MODEL UFC-0N

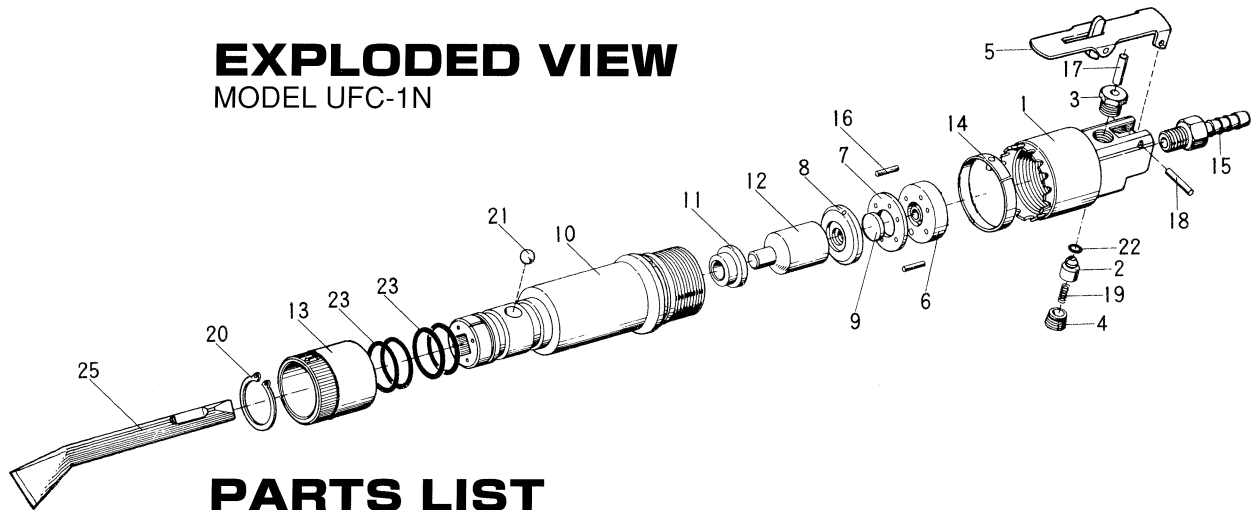


PARTS LIST

Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity
# 1	881-130-1	Handle	1	#15	976-123-0	Spring (6.3×21)	1
# 2	754-100-1	Valve	1	#16	979-127-0	Outer Snap Ring (30)	1
# 3	754-103-1	Valve Rod Bushing	1	#17	981-012-0	Steel Ball (7/16)	1
# 4	754-108-1	Valve Plug	1	#18	990-205-0	O-Ring (JW1516-5)	1
# 5	754-914-1	Self-Locking Lever Assembly	1	#19	990-219-0	O-Ring (JW1516-19)	4
# 6	754-284-1	Cylinder Plate	1	#20	980-001-0	Flat Head Notch (2,4)	1
# 7	754-682-1	Cushion Rubber	1	Standard Accessories			
# 8	754-286-1	Cylinder	1				
# 9	754-546-1	Piston	1	#12	940-116-0	Air Hose Nipple(NPT1/4×3/8)	1
#10	757-679-1	Chisel Retainer	1	#21	921-201-0	Chipping Chisel	1
#11	754-562-1	Lock Band	1				
#13	970-424-0	Pin (H)(5×23.5)	1				
#14	973-120-0	Roll Pin (3×20)	1				

EXPLODED VIEW

MODEL UFC-1N



PARTS LIST

Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity
# 1	881-131-1	Handle	1	#16	970-208-0	Pin (H) (3×10)	2
# 2	754-100-1	Valve	1	#17	970-427-0	Pin (H) (5×25)	1
# 3	754-103-1	Valve Rod Bushing	1	#18	973-120-0	Roll Pin (3×20)	1
# 4	754-108-1	Valve Plug	1	#19	976-123-0	Spring (6.3×21)	1
# 5	754-914-1	Self-Locking Lever Assembly	1	#20	979-127-0	Outer Snap Ring (30)	1
# 6	757-198-1	Rear Valve Seat	1	#21	981-012-0	Steel Ball (7/16)	1
# 7	749-199-1	Medium Valve Seat	1	#22	990-205-0	O-Ring (JW1516-5)	1
# 8	757-200-1	Front Valve Seat	1	#23	990-219-0	O-Ring (JW-1516-19)	4
# 9	749-195-1	Main Valve	1	#24	980-001-0	Flat Head Notch (2,4)	1
#10	757-286-1	Cylinder	1	Standard Accessories			
#11	757-674-1	Cylinder Bushing	1				
#12	757-546-1	Piston	1	#15	940-116-0	Air Hose Nipple (NPT1/4×3/8)	1
#13	757-679-1	Chisel Retainer	1	#25	921-201-0	Chipping Chisel	1
#14	754-562-1	Lock Band	1				

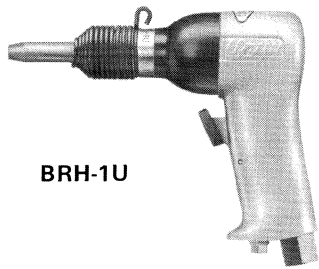
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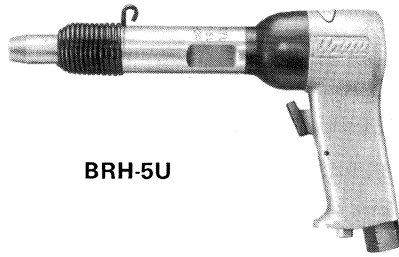
URYU SEISAKU, LTD.

Claims must be filed only with distributors within ten(10)days from delivery.
For further information, please contact at any time your nearest URYU distributor.

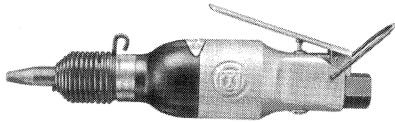
URYU LIGHT RIVETING HAMMERS



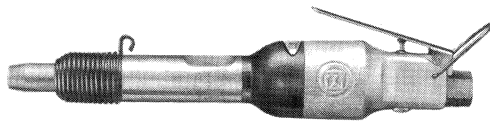
BRH-1U



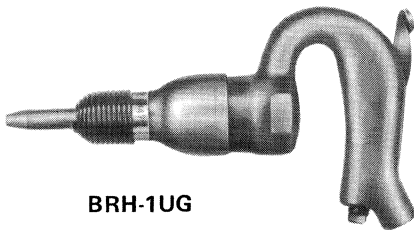
BRH-5U



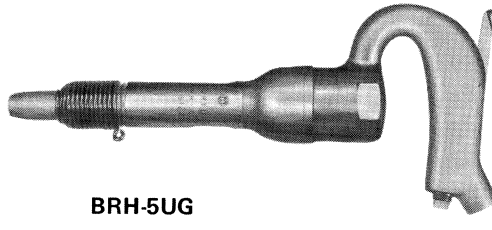
BRH-1US



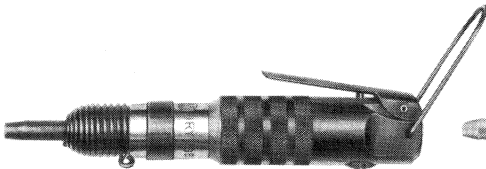
BRH-5US



BRH-1UG



BRH-5UG



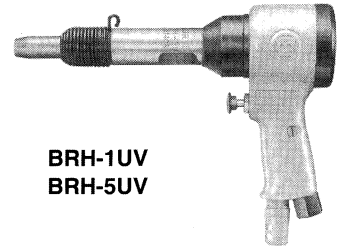
SBH-0 (Round Bushing only)



SBH-1A

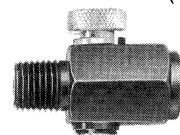
VIBRATION LESS TYPE

To meet the growing demand for low noise and less vibration percussive tools, URYU offers two different types of BRH-V series Riveting Hammers, which employ unique damping system.



BRH-1UV
BRH-5UV

1/4 AIR REGULATOR (Option)



Code No. 932-110-0

SPECIFICATIONS

Recommended Air Pressure : 0.6Mpa(85psi)

Model	Riveting Capacity				Blows Per min. (about)	Overall Length (about)		Weight less Rivet Set (about)		Piston Dia.		Piston Stroke		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
	Duralmin		Steel															
	mm	in	mm	in		b.p.m.	mm	in	kg	lb	mm	in	mm		in	in	mm	in
SBH-0	2.3	3/32	—	—	6,500	123	4 27/32	0.32	0.7	10.00	25/64	23	29/32	N.P.T.1/4	6.4	1/4	0.10	3.5
SBH-1A (R,H)	2.6	7/64	—	—	4,000	209	8 15/64	0.86	1.9	11.11	7/16	56	2 3/16	N.P.T.1/4	6.4	1/4	0.15	5.0
BRH-1U (R,H)	3.2	1/8	2.4	3/32	2,800	122	4 15/16	1.05	2.4	14.30	9/16	38	1 1/2	N.P.T.1/4	9.5	3/8	0.34	12.0
BRH-1US (R,H)	3.2	1/8	2.4	3/32	2,800	180	7 1/8	1.00	2.2	14.30	9/16	38	1 1/2	N.P.T.1/4	9.5	3/8	0.34	12.0
BRH-1UG (R,H)	3.2	1/8	2.4	3/32	2,800	187	7 3/8	1.78	3.9	14.30	9/16	38	1 1/2	N.P.T.1/4	9.5	3/8	0.34	12.0
BRH-5U (R,H)	6.4	1/4	4.8	3/16	1,800	190	7 1/2	1.40	3.1	12.70	1/2	100	4	N.P.T.1/4	9.5	3/8	0.37	13.0
BRH-5US (R,H)	6.4	1/4	4.8	3/16	1,800	248	9 25/32	1.45	3.2	12.70	1/2	100	4	N.P.T.1/4	9.5	3/8	0.37	13.0
BRH-5UG (R,H)	6.4	1/4	4.8	3/16	1,800	255	10 3/16	2.13	4.7	12.70	1/2	100	4	N.P.T.1/4	9.5	3/8	0.37	13.0
BRH-1UV (R,H)	3.2	1/8	2.4	3/32	2,800	162	6 3/8	1.37	3.0	14.30	9/16	38	1 1/2	N.P.T.1/4	9.5	3/8	0.34	12.0
BRH-5UV (R,H)	6.4	1/4	4.8	3/16	1,800	227	8 15/16	1.68	3.7	12.70	1/2	100	4	N.P.T.1/4	9.5	3/8	0.37	13.0

Accessories : Rivet Set; Retainer Spring & Air Hose Nipple

R:Round Bushing H:Hexagonal Bushing

IMPORTANT!!

- Lubrication**—Supply Turbine Oil properly through Air Inlet or Line Oiler every before and after operation. (for examples, MOBIL TURBINE OIL #32, SHELL TURBINE OIL #32 and or equivalents.)
- Dry & Clean Air**—Drain daily, and install a Filter at or near the take-off point to prevent trouble from foreign matter.
- Air Hose & Fitting**—Use the Air Hose and other fittings of proper size and perfect condition.
- Idle Operation makes trouble.**—Never trigger a hammer unless its on the work.
- Air Pressure**—Recommended Air Pressure is 0.6Mpa (85psi)
- Genuine Parts**—Use only URYU's Genuine Spare Parts for replacement.
- Regular Overhaul**—At least once every three months regular or periodical overhaul by a competent person is needed for best performance and troubles less operation.

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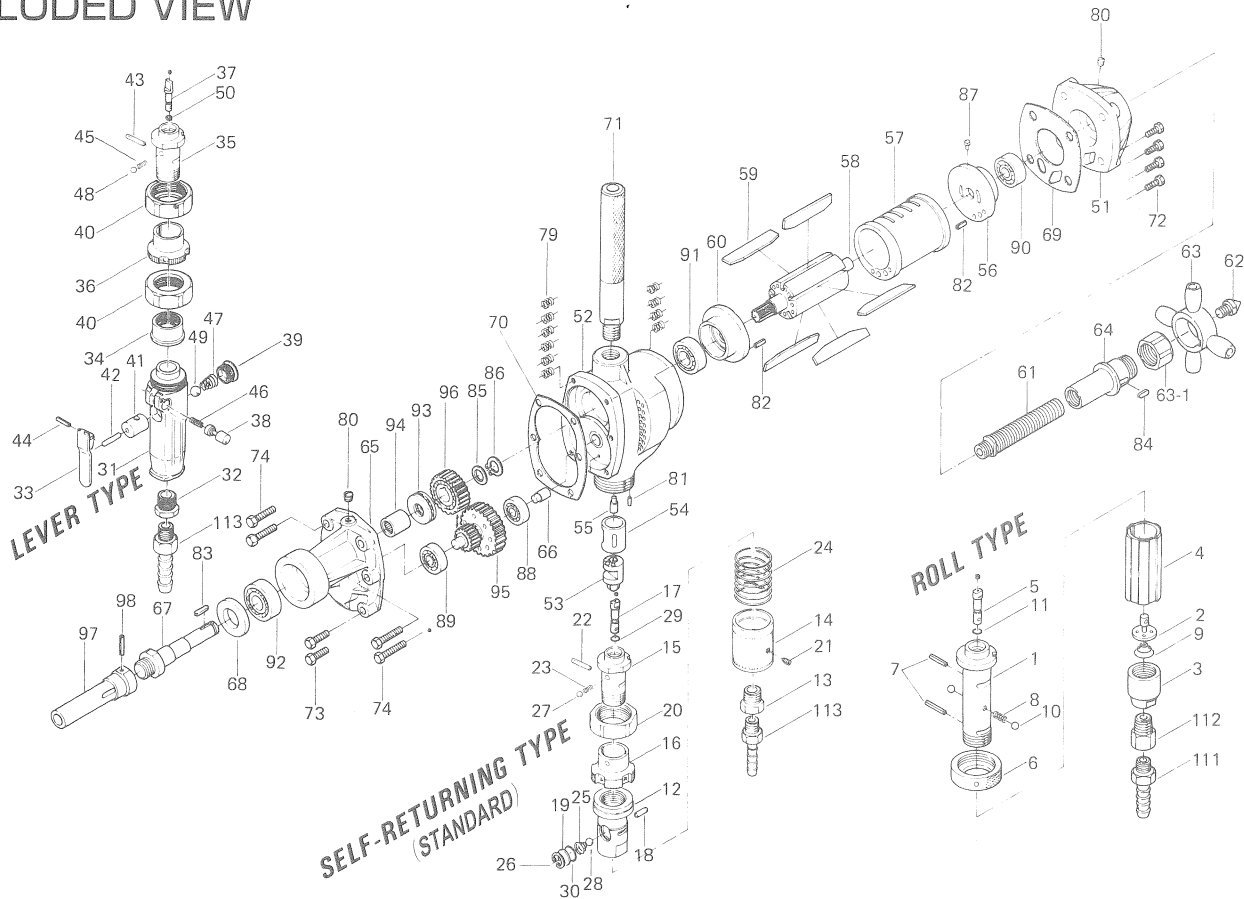
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URYU SEISAKU, LTD.

Claims must be field only with distributors within ten(10)days from delivery.

URD-22 SERIES ROTARY DRILLS

EXPLODED VIEW



PARTS LIST

Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity
626-003-1 URD-22R				# 33	566-107-5	Valve Lever	1	# 72	945-225-0	Allen Head Bolt (M6x25)	4
Valve Handle Assembly (Roll Type)				# 34	626-079-7	Connector	1	# 73	945-228-0	Allen Head Bolt (M6x28)	2
# 1	626-014-1	Valve Body	1	# 35	626-729-4	Valve Body Connector	1	# 74	945-240-0	Allen Head Bolt (M6x40)	4
# 2	626-100-1	Valve	1	# 36	626-209-4	Reverse Handle	1	# 79	965-021-0	Heli-Sert (M6x1.5D)	10
# 3	626-090-1	Air inlet Bushing	1	# 37	626-221-1	Reverse Valve Spindle	1	# 80	966-100-0	Oil Plug (1/8)	2
# 4	626-015-1	Valve Handle	1	# 38	585-765-1	Safety Pin	1	# 81	973-108-0	Roll Pin (3x8)	1
# 5	626-221-1	Reverse Valve Spindle	1	# 39	578-108-1	Valve Plug	1	# 82	973-212-0	Roll Pin (4x12)	2
# 6	626-736-1	Valve Body Nut	1	# 40	626-736-4	Valve Body Nut	2	# 83	974-080-0	Key (3.5x13)	1
# 7	971-272-0	Pin (3.8x32)	2	# 41	578-101-1	Valve Bushing	1	# 84	974-215-0	Key (5x15)	1
# 8	976-115-0	Spring (6x25)	1	# 42	971-273-0	Pin (3.8x34)	1	# 85	975-759-0	Adjusting Spacer (20x15.2xt)	1
# 9	977-165-0	Cone Spring (7x22x12)	1	# 43	970-426-0	Pin (H)(5x26)	1	# 86	979-112-0	Outer Snap Ring (15)	1
# 10	981-006-0	Ball (1/4)	2	# 44	973-170-0	Roll Pin (3.5x20)	1	# 87	980-008-0	Round Head Notch (2.4)	1
# 11	990-203-0	O-Ring (JW1516-3)	1	# 45	976-066-0	Spring (4.6x9)	1	# 88	982-024-0	Ball Bearing (629)	1
626-003-4 URD-22RR				# 46	976-114-0	Spring (6x18)	1	# 89	982-200-0	Ball Bearing (6200)	1
Valve Handle Assembly (Self-Returning Type)				# 47	977-260-0	Cone Spring (10x16x16)	1	# 90	982-201-0	Ball Bearing (6201)	1
# 12	626-014-4	Valve Body	1	# 48	981-004-0	Ball (3/16)	1	# 91	982-202-0	Ball Bearing (6202)	1
# 13	592-091-2	Air inlet Bushing	1	# 49	981-214-0	Ball (1/2)	1	# 92	983-303-0	Ball Bearing (7203B)	1
# 14	626-015-4	Valve Handle	1	# 50	990-203-0	O-Ring (JW1516-3)	1	# 93	986-252-0	Thrust Ball Bearing (2902)	1
# 15	626-729-4	Valve Body Connector	1	COMMON PARTS				# 94	988-370-0	Needle Roller Bearing (BA1012)	1
# 16	626-209-4	Reverse Handle	1	# 51	626-017-1	Oil Casing	1	# 95	632-445-1	Middle Gear	1
# 17	626-221-1	Reverse Valve Spindle	1	# 52	626-025-1	Casing	1	# 96	632-446-1	Shaft Gear	1
# 18	626-104-4	Valve Rod	1	# 53	626-210-1	Reverse Valve	1	# 97	630-520-1	Socket (No.2)	1
# 19	626-019-4	Valve Cover	1	# 54	626-211-1	Reverse Valve Bushing	1	# 98	971-325-0	Pin (4x25)	1
# 20	626-736-4	Valve Body Nut	1	# 55	626-222-1	Reverse Valve Setter	1	ACCESSORIES			
# 21	952-308-0	Allen Head Dog Point Screw (M6x8)	1	# 56	626-285-1	Rear Plate	1	for URD-22R			
# 22	971-273-0	Pin (3.8x34)	1	# 57	626-286-1	Cylinder	1	# 111	940-115-0	Air Hose Nipple (NPT1/4x1/2)	1
# 23	976-066-0	Spring (4.6x9)	1	# 58	626-287-1	Rotor	1	# 112	942-121-0	Connecting Screw (3/8xNPT1/4)	1
# 24	976-978-0	Spring (40.8x35)	1	# 59	626-288-1	Blade	5	for URD-22RR&22RL			
# 25	977-258-0	Cone Spring (10x16x10)	1	# 60	626-289-1	Front Plate	1	# 113	940-125-0	Air Hose Nipple (NPT3/8x1/2)	1
# 26	979-013-0	Inner Snap Ring (20)	1	# 61	626-535-1	Feed Screw	1				
# 27	981-004-0	Ball (3/16)	1	# 62	636-536-1	Feed Center	1				
# 28	981-214-0	Ball (1/2)	1	# 63	626-537-1	Feed Handle	1				
# 29	990-203-0	O-Ring (JW1516-3)	1	# 63-1	626-541-1	Feed Sleeve Nut	1				
# 30	990-916-0	O-Ring (SNS-18)	1	# 64	626-538-2	Feed Sleeve	1				
626-003-7 URD-22RL				# 65	626-029-1	Gear Casing	1				
Valve Handle Assembly (Lever Type)				# 66	626-505-1	Middle Gear Spindle	1				
# 31	626-014-7	Valve Body	1	# 67	626-319-1	Spindle	1				
# 32	592-091-1	Air inlet Bushing	1	# 68	626-399-1	Sealing Plate	1				
				# 69	626-859-1	Oil Casing Packing	1				
				# 70	626-860-1	Gear Casing Packing	1				
				# 71	626-720-1	Dead Handle	1				

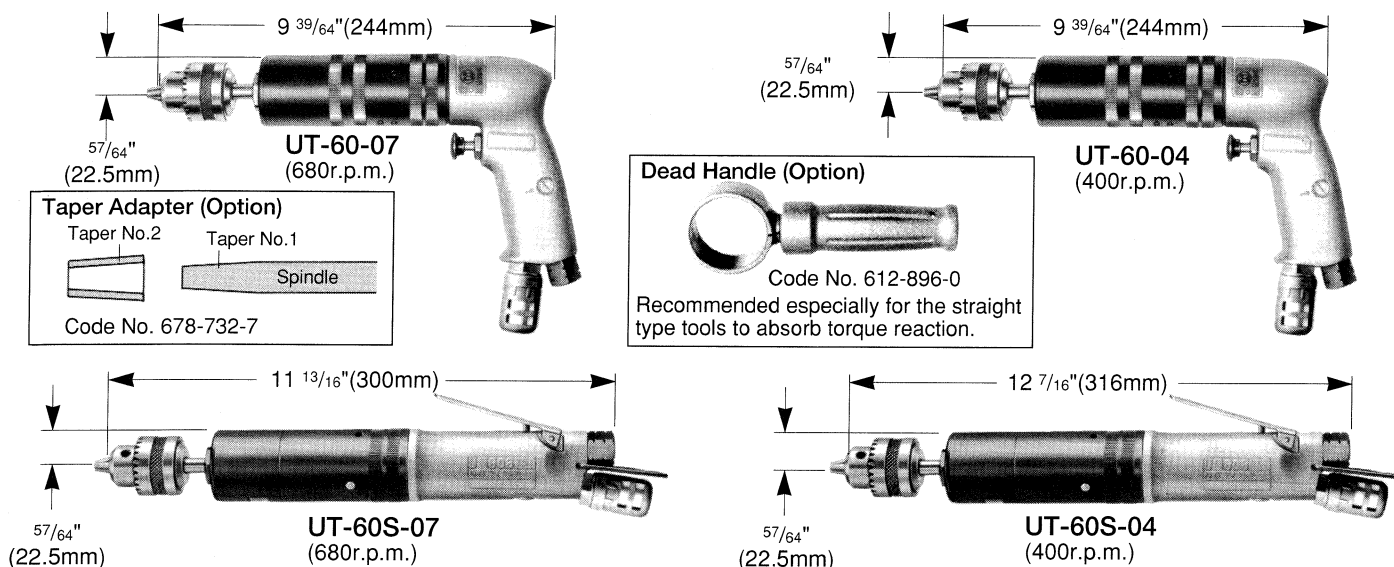
When ordering spare parts, please Specify tool type, code number and parts name.

Printed in Japan

URYU SEISAKU, LTD. Osaka, Japan

AIR TAPPERS & REVERSIBLE DRILLS

(AUTO-REVERSING TYPE)

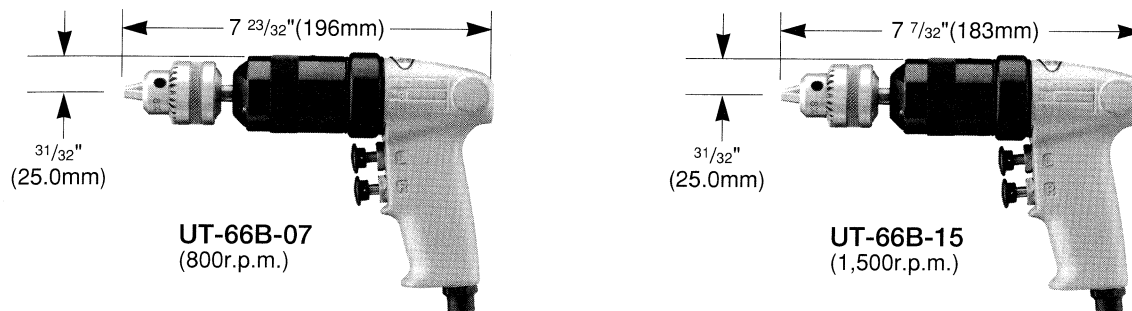


SPECIFICATIONS

Model	Tapping Capacity		Free Speed (about)	Overall Length (about)		Weight with Chuck (about)		Nominal Chuck Size		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
	in	mm	r.p.m.	in	mm	lb	kg	in	mm	in	in	mm	ft ³ /min.	m ³ /min.
UT-60-07	5/16	8	680	9 39/64	244	3.96	1.80	5/16	8	N.P.T. 1/4	3/8	9.5	18.0	0.5
UT-60S-07	5/16	8	680	11 13/16	300	3.63	1.65	5/16	8	N.P.T. 1/4	3/8	9.5	18.0	0.5
UT-60-04	5/16	8	400	9 39/64	244	3.96	1.80	5/16	8	N.P.T. 1/4	3/8	9.5	18.0	0.5
UT-60S-04	5/16	8	400	12 7/16	316	3.63	1.65	5/16	8	N.P.T. 1/4	3/8	9.5	18.0	0.5
UT-66B-07	5/16	8	800	7 23/32	196	3.12	1.42	5/16	8	N.P.T. 1/4	3/8	9.5	10.7	0.3
UT-66B-15	1/4	6	1500	7 7/32	183	2.90	1.32	5/16	8	N.P.T. 1/4	3/8	9.5	10.7	0.3

Standard accessories : Key Chuck, Air Hose Nipple, Tools for disassembly.
Recommended Air Pressure : 0.6MPa(85psi)

(DOUBLE-TRIGGER TYPE)



IMPORTANT!!

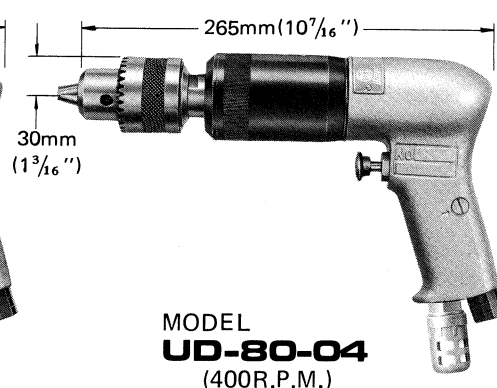
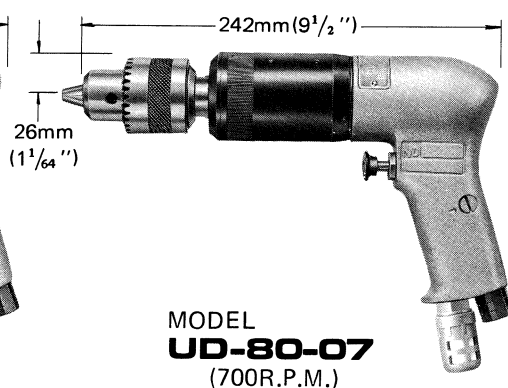
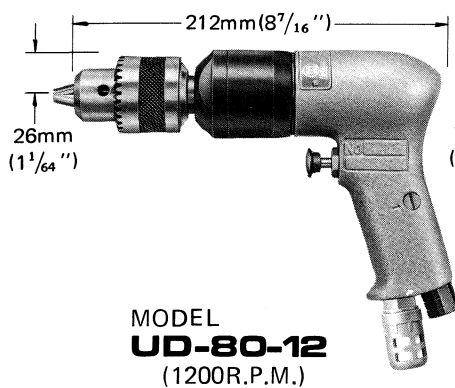
- Lubrication—For Motor**—: Supply Turbine Oil properly through Air Inlet or Line Oiler every before and after operation. (Examples of lubricants: MOBIL TURBINE OIL #32, SHELL TURBINE OIL #32, and equivalent.)
- Lubrication—For Gears and Bearings**—: Supply high quality grease adequately at least once every month from the grease plug located on the Gear Box, and when the tool is overhauled. Over-greasing will cause dull motion or heating. (Examples of grease: SHELL ALVANIA NO. 2, SHELL ALVANIA EP, MOBILPLEX 47 and equivalents.)
- Dry & Clean Air**—Drain daily and install a Filter at or near the take-off point to prevent trouble from foreign matter.
- Air Hose & Fittings**—Use Air Hose (the shorter, the better) and other fittings of proper size and perfect condition.
- Genuine Parts**—Use only URYU's genuine parts for replacement.
- Regular Overhaul**: Once every three months regular overhaul is recommended to keep sufficient performance and to prevent trouble.

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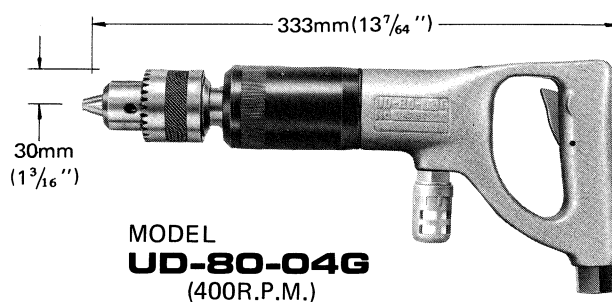
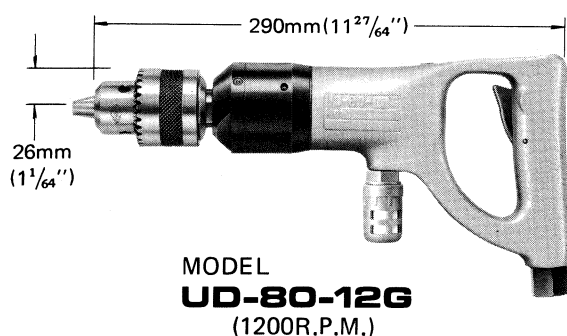
URYU AIR DRILLS



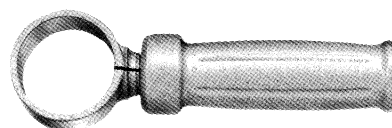
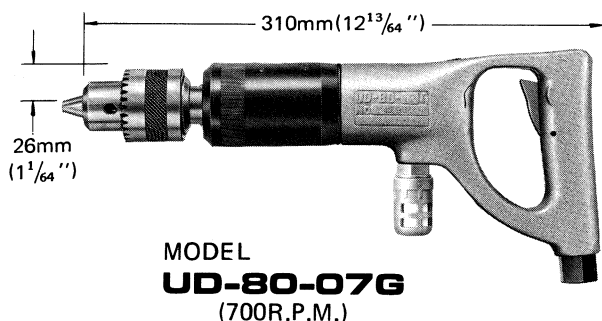
SPECIFICATIONS

Handle	Model	Drilling Capacity		Free Speed (about)	Weight with Chuck (about)		Nominal Chuck Size		Spindle	Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
		mm	in	r.p.m.	kg	lb.	mm	in	in-thr'd	in	mm	in	m ³ /min	ft ³ /min
Pistol	UD-80-12	13	1/2	1,200	1.8	3.96	13	1/2	1/2-20UNF	N.P.T. 1/4	9.5	3/8	0.65	23
	UD-80-07	13	1/2	700	2.3	5.06	13	1/2	1/2-20UNF	N.P.T. 1/4	9.5	3/8	0.65	23
	UD-80-04	16	5/8	400	2.9	6.39	16	5/8	5/8-16UNC	N.P.T. 1/4	9.5	3/8	0.65	23
Spade	UD-80-12G	13	1/2	1,200	2.3	5.06	13	1/2	1/2-20UNF	N.P.T. 1/4	9.5	3/8	0.65	23
	UD-80-07G	13	1/2	700	2.8	6.16	13	1/2	1/2-20UNF	N.P.T. 1/4	9.5	3/8	0.65	23
	UD-80-04G	16	5/8	400	3.4	7.50	16	5/8	5/8-16UNC	N.P.T. 1/4	9.5	3/8	0.65	23

Standard Accessories: Chuck, Air Hose Nipple, tools for disassembly
Air Pressure: 0.6MPa (85 psi)



(Optional Accessories)



Dead Handle Assembly
Code No. 613-896-0



Air Regulator (1/4")
Code No. 932-110-0

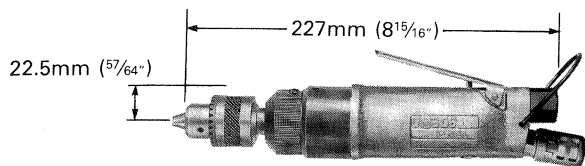
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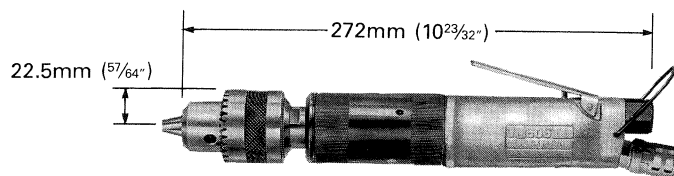
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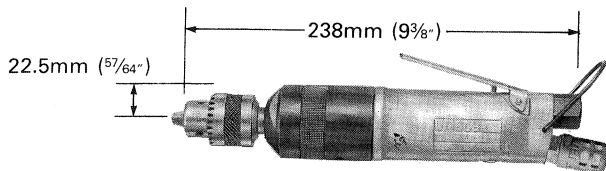
URYU AIR DRILLS



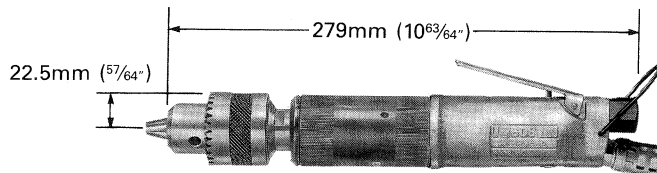
UD-60S-29 (2,900r.p.m)



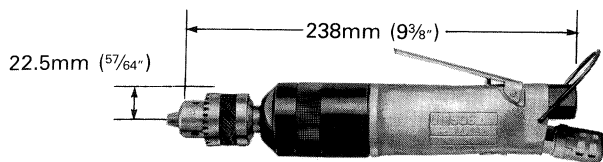
UD-60S-07 (700r.p.m)



UD-60S-20 (2,000r.p.m)

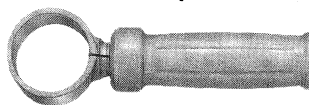


UD-60S-04 (500r.p.m)



UD-60S-15 (1,600r.p.m)

(Optional Accessories)



Dead Handle Assembly
Code No. 612-896-0



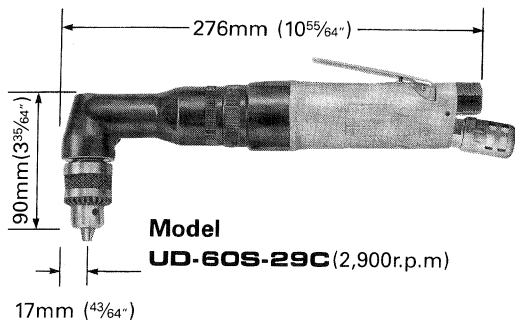
Air Regulator (1/4")
Code No. 932-110-0

SPECIFICATIONS

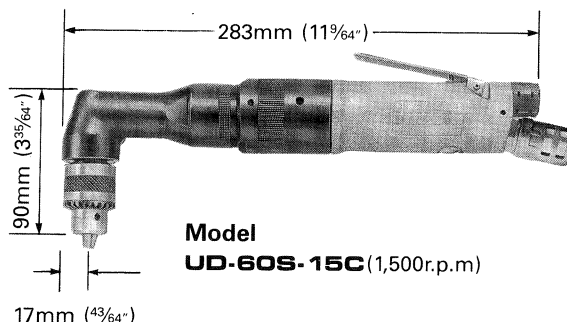
Recommended Air Pressure : 0.6MPa (85psi)

Model	Drilling Capacity		Free Speed (about)	Weight with Chuck (about)		Nominal Chuck Size		Spindle	Air Inlet Thread	Air Hose Size		Average Air Consumption (about)	
	mm	in	r.p.m.	kg	lb	mm	in	in-thr'd	Pipe Tap	mm	in	m ³ /min.	ft ³ /min.
STRAIGHT UD-60S-29	8	5/16	2,900	1.05	2.32	8	5/16	3/8-24UNF	N.P.T 1/4	9.5	3/8	0.50	18
UD-60S-20	8	5/16	2,000	1.15	2.54	8	5/16	3/8-24UNF	N.P.T 1/4	9.5	3/8	0.50	18
UD-60S-15	8	5/16	1,600	1.15	2.54	8	5/16	3/8-24UNF	N.P.T 1/4	9.5	3/8	0.50	18
UD-60S-07	13	1/2	700	1.35	2.98	13	1/2	1/2-20UNF	N.P.T 1/4	9.5	3/8	0.50	18
UD-60S-04	13	1/2	500	1.35	2.98	13	1/2	1/2-20UNF	N.P.T 1/4	9.5	3/8	0.50	18
ANGLE UD-60S-29C	8	5/16	2,900	1.52	3.34	8	5/16	3/8-24UNF	N.P.T 1/4	9.5	3/8	0.50	18
UD-60S-15C	8	5/16	1,600	1.60	3.52	8	5/16	3/8-24UNF	N.P.T 1/4	9.5	3/8	0.50	18

Standard Accessories : Key Chuck & Air Hose Nipple.



Model UD-60S-29C (2,900r.p.m)



Model UD-60S-15C (1,500r.p.m)

IMPORTANT!!

Air Pressure

→ 0.6MPa(85psi) Air Pressure is recommended for the most efficient performance.
Too high air pressure will shorten tool's life.

Lubrication

→ **For Air Motor**— Supply Turbine Oil properly through Air Inlet or Line Oiler every before and

after operation. (for examples, MOBIL TURBINE OIL #32 SHELL TURBINE OIL #32, and or equivalents.)

For Gears and Bearings— Supply recommended high quality Grease properly (for examples, SHELL ALVANIA NO.2 SHELL ALVANIA EP, MOBILPLEX 2, MOBILPLEX 47 and or equivalents.) once every three months and when the tool is overhauled.

Over-greasing will cause dull motion or heating.

Dry and Clean Air

→ Drain daily, and install Filter at or near the take-off point to prevent trouble from foreign matter.

Air Hose and Joints

→ Use Air Hose (the shorter, the better), Joints and other fittings of good condition and of proper size to avoid pressure drop.

Genuine Parts

→ Use only URYU's genuine spare parts for replacement.

Regular Overhaul

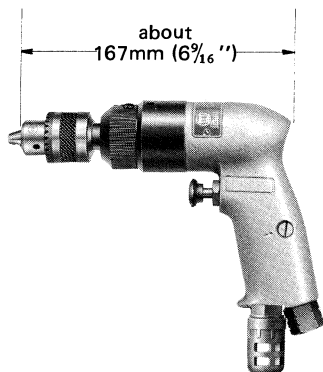
→ At least once every three months regular or periodical overhaul by a competent person is needed for best performance and trouble-less operation.

Distributed by :

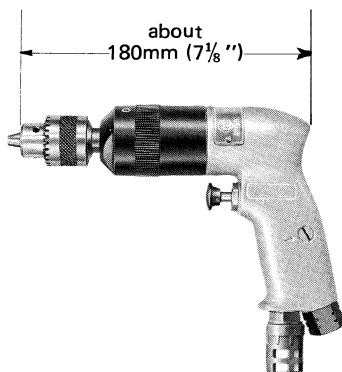
URYU SEISAKU, LTD.

Claims must be filed only with distributors within ten(10)days from delivery.

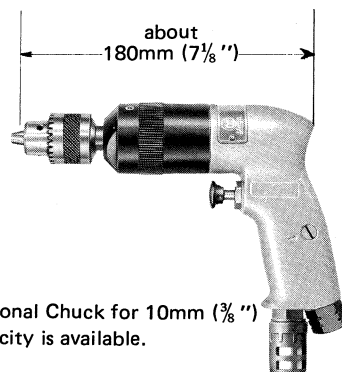
URYU AIR DRILLS



MODEL UD-60-29 (2,900R.P.M.)



MODEL UD-60-20 (2,000R.P.M.)



Optional Chuck for 10mm ($\frac{3}{8}$ "") capacity is available.

MODEL UD-60-15 (1,600R.P.M.)

SPECIFICATIONS

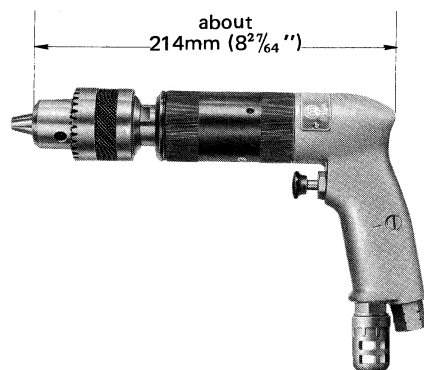
MODEL	DRILLING CAPACITY		FREE SPEED (about)	WEIGHT WITH CHUCK (about)		NOMINAL CHUCK SIZE		SPINDLE	AIR INLET THREAD (PIPE TAP)	AIR HOSE SIZE		AVERAGE AIR CONSUMPTION (about)	
	mm	in	r.p.m.	kg	lb.	mm	in	in - thr'd	in	mm	in	m ³ /min.	ft ³ /min.
UD-60-29	8	5/16	2,900	1.1	2.43	8	5/16	3/8-24 UNF	N.P.T. 1/4	9.5	3/8	0.5	18
UD-60-20	8	5/16	2,000	1.2	2.64	8	5/16	3/8-24 UNF	N.P.T. 1/4	9.5	3/8	0.5	18
UD-60-15	8	5/16	1,600	1.2	2.64	8	5/16	3/8-24 UNF	N.P.T. 1/4	9.5	3/8	0.5	18
UD-60-07	13	1/2	700	1.4	3.08	13	1/2	1/2-20 UNF	N.P.T. 1/4	9.5	3/8	0.5	18
UD-60-04	13	1/2	500	1.4	3.08	13	1/2	1/2-20 UNF	N.P.T. 1/4	9.5	3/8	0.5	18

Air Pressure : 0.6MPa (85psi)

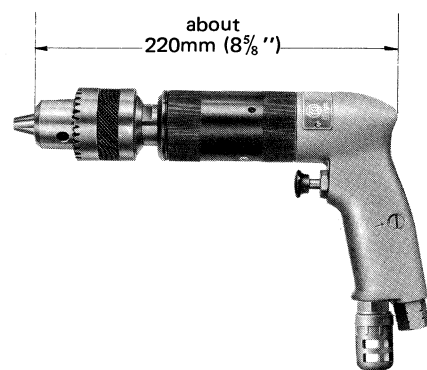
Accessories : Chuck, Air Hose Nipple

SPINDLE	3/8"-24 UNF	1/2"-20 UNF
KEY CHUCK	○8mm (923-070-0) *10mm (923-072-0)	○13mm (923-071-0) *10mm (923-073-0)
CHUCK HANDLE	(927-051-0)	(927-053-0)

○: Standard *: Option



MODEL UD-60-07 (700R.P.M.)



MODEL UD-60-04 (500R.P.M.)

IMPORTANT!!

Air Pressure

→ 85 psi (0.6MPa) Air Pressure is recommended for the most efficient performance. Too high air pressure will shorten tool's life.

Lubrication

→ **For Air Motor** — Supply Turbine Oil properly through Air Inlet or Line Oilier every before and after operation. (for examples, MOBIL TURBINE OIL #32 SHELL TURBINE OIL #32, and or equivalents.)

For Gears and Bearings — Supply recommended high quality Grease properly (for examples, SHELL ALVANIA NO.2, SHELL ALVANIA EP, MOBILPLEX 2, MOBILPLEX 47 and or equivalents.) once every three months and when the tool is overhauled. Over-greasing will cause dull motion or heating.

Dry and Clean Air

→ Drain daily, and install Filter at or near the take-off point to prevent trouble from foreign matter.

Air Hose and Joints

→ Use Air Hose (the shorter, the better), Joints and other fittings of good condition and of proper size to avoid pressure drop.

Genuine Parts

→ Use only URYU's genuine spare parts for replacement.

Regular Overhaul

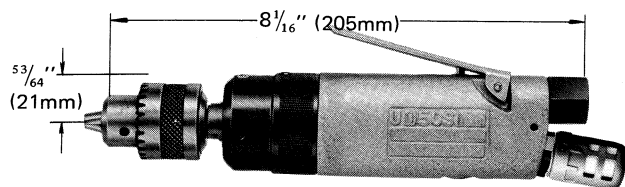
→ At least once every three months regular or periodical overhaul by a competent person is needed for best performance and trouble-less operation.

Distributed by:

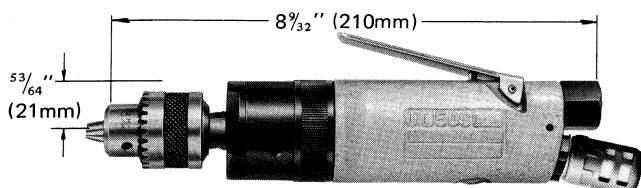
URYU SEISAKU, LTD.

Claims must be filed only with distributors within ten(10)days from delivery.

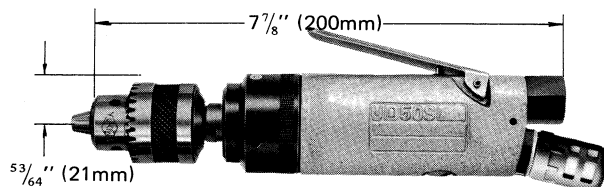
URYU AIR DRILLS



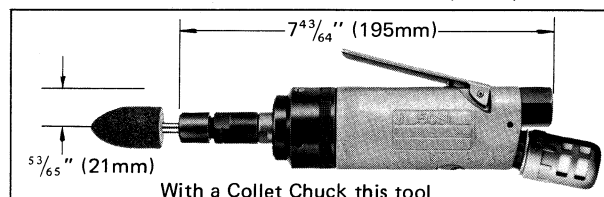
Model **UD-50S-22** (2,200 r.p.m.)



Model **UD-50S-45** (5,000 r.p.m.)



Model **UD-50S-200** (23,000 r.p.m.)



With a Collet Chuck this tool can be converted to a Die Grinder
Model **UG-50S-200** (23,000 r.p.m.)

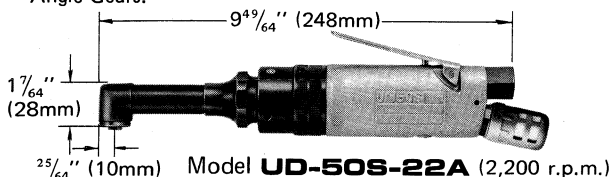
SPECIFICATIONS

MODEL	Drilling Capacity		Free Speed (about)	Weight with Chuck (about)		Nominal Chuck Size		Spindle	Air Inlet Thread	Air Hose Size		Average Air Consumption	
	in.	mm	r.p.m.	lb	kg	in	mm	in-thr'd	Pipe Tap	in	mm	ft ³ /min	m ³ /min.
UD-50S-200	1/8	3	23,000	1.50	0.70	5/16	8	3/8-24 UNF	N.P.T. 1/4	3/8	9.5	14	0.4
UD-50S-45	1/4	6	5,000	1.87	0.85	5/16	8	3/8-24 UNF	N.P.T. 1/4	3/8	9.5	14	0.4
UD-50S-22	5/16	8	2,200	1.84	0.83	5/16	8	3/8-24 UNF	N.P.T. 1/4	3/8	9.5	14	0.4
UD-50S-45A	5/32 *	4 *	5,000	1.98	0.90	—	—	1/4-28 UNF	N.P.T. 1/4	3/8	9.5	14	0.4
UD-50S-22A	5/32 *	4 *	2,200	1.94	0.88	—	—	1/4-28 UNF	N.P.T. 1/4	3/8	9.5	14	0.4

Standard Accessories : Chuck (straight type only), Air Hose Nipple, Tools for disassembly.

Air Pressure : 0.6MPa(85psi)

* Torque is sufficient for drilling up to 6mm or 1/4", but the lower max. drilling capacity is given in consideration of strength of the miniature Angle Gears.

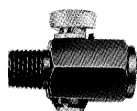


Model **UD-50S-22A** (2,200 r.p.m.)



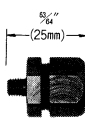
Model **UD-50S-45A** (5,000 r.p.m.)

(Optional Accessories)



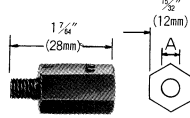
Air Regulator (1/4")
Code No. 932-110-0

Cone Jaw Chuck



Capacity: up to 1/4"
or 6.35mm
Code No. 923-100-0

Drill Adapter



(Sizes available on order)

Size	Code No.	Size	Code No.
2m/m	924-001-0	4m/m	924-011-0
3m/m	924-007-0	5m/m	924-013-0
1/8"	924-071-0	6m/m	924-015-0
5/32"	924-072-0	1/4"	924-074-0

IMPORTANT!!

Air Pressure

→ 0.6MPa(85psi) Air Pressure is recommended for the most efficient performance. Too high air pressure will shorten tool's life.

Lubrication

→ For Air Motor — Supply Turbine Oil properly through Air Inlet or Line Oiler every before and after operation. (for examples, MOBIL TURBINE OIL #32 SHELL TURBINE OIL #32, and or equivalents.)

For Gears and Bearings — Supply recommended high quality Grease properly (for examples, SHELL ALVANIA NO. 2, MOBILPLEX 2, and or equivalents.) once every three months and when the tool is overhauled. Over-greasing will cause dull motion or heating.

Dry and Clean Air

→ Drain daily, and install Filter at or near the take-off point to prevent trouble from foreign matter.

Air Hose and Joints

→ Use Air Hose (the shorter, the better), Joints and other fittings of good condition and of proper size to avoid pressure drop.

Genuine Parts

→ Use only URYU's genuine spare parts for replacement.

Regular Overhaul

→ At least once every three months regular or periodical overhaul by a competent person is needed for best performance and trouble-less operation.

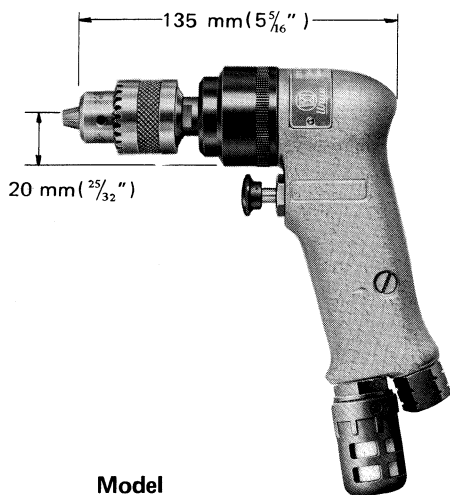
Distributed by:

Printed in Japan

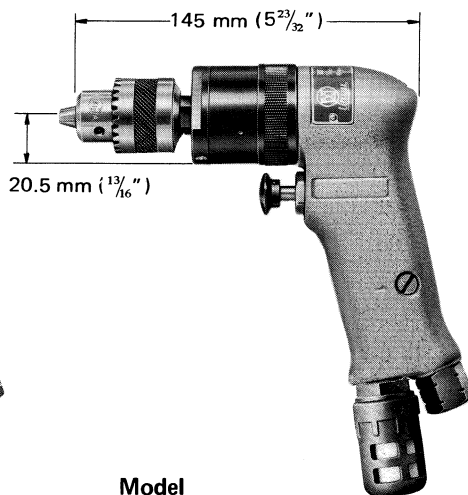
URYU SEISAKU, LTD.

Claims must be filed only with distributors within ten(10) days from delivery.

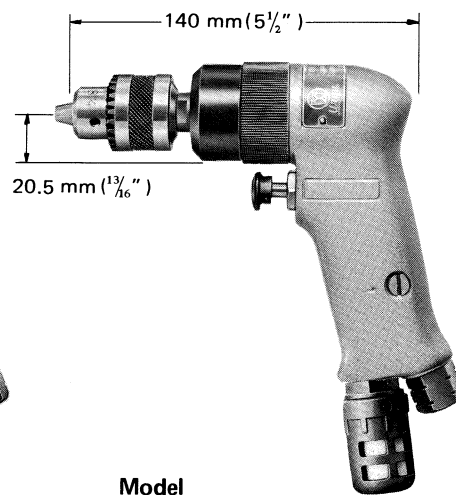
URYU AIR DRILLS



Model
UD-50-200
(23,000 R.P.M.)



Model
UD-50-45
(5,000 R.P.M.)

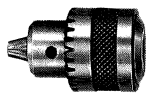


Model
UD-50-22
(2,200 R.P.M.)

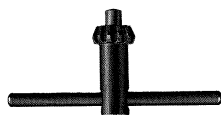
SPECIFICATIONS

MODEL	DRILLING CAPACITY		FREE SPEED (about)	WEIGHT WITH CHUCK (about)		NOMINAL CHUCK SIZE		SPINDLE	AIR INLET THREAD	AIR HOSE SIZE		AVERAGE AIR CONSUMPTION	
	mm	in		kg	lb	mm	in			mm	in	m ³ /min.	ft ³ /min.
UD-50-200	3	1/8	23,000	0.70	1.50	8	5/16	3/8-24UNF	N.P.T. 1/4	9.5	3/8	0.4	14
UD-50-45	6	1/4	5,000	0.86	1.89	8	5/16	3/8-24UNF	N.P.T. 1/4	9.5	3/8	0.4	14
UD-50-22	8	5/16	2,200	0.90	1.98	8	5/16	3/8-24UNF	N.P.T. 1/4	9.5	3/8	0.4	14

Air Pressure: 6kg/cm² (85 psi) Accessories: Chuck, Air Hose Nipple

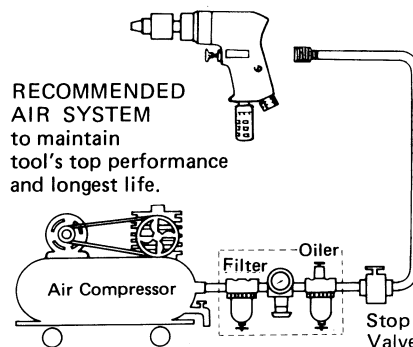


Key Chuck



Chuck Handle

	Capacity	Threaded Type	
		Key Chuck	Chuck Handle
Standard	8mm	923-070-0	927-050-0
Option	10mm	923-072-0	927-053-0



RECOMMENDED AIR SYSTEM
to maintain tool's top performance and longest life.

IMPORTANT!!

Air Pressure → 0.6MPa (85 psi) Air Pressure is recommended for the most efficient performance. Too high air pressure will shorten tool's life.

Lubrication → For Air Motor — Supply Turbine Oil properly through Air Inlet or Line Oiler every before and after operation. (For examples MOBIL TURBINE OIL #32, SHELL TURBINE OIL #32, and or equivalent.)

For Gears and Bearings — Supply recommended high quality Grease properly (for examples, SHELL ALAVANIA NO.2, MOBILPLEX 2 and or equivalents) once every three months and when the tool is overhauled. Over-greasing will cause dull motion or heating.

Dry and Clean Air → Drain daily, and install Filter at or near the take-off point to prevent trouble from foreign matter.

Air Hose and Joints → Use Air Hose (the shorter, the better), Joints and other fittings of good condition and of proper size to avoid pressure drop.

Genuine Parts → Use only URYU's genuine spare parts for replacement.

Regular Overhaul → At least once every three months regular or periodical overhaul by a competent person is needed for best performance and trouble-less operation.

Distributed by:

URYU SEISAKU, LTD.

Claims must be filed only with distributors within ten (10) days from delivery.

Printed in Japan

INDUSTRIAL BATTERY OIL-PULSE TOOLS

NEW UBP-T SERIES (12V)

12V ELECTRIC MOTOR

WARNING RED LIGHT

(indicates motor has stopped due to overheating)

REDUCTION GEAR

ALLEN WRENCH

(torque adjustment)

DURABLE OIL-PULSE UNIT

UBP-T40 : ULT40

UBP-T50 : ULT50

UBP-T60 : ULT60

ATTENTION !!

Keep the throttle trigger on until the tool stops automatically.

OK GREEN LIGHT

(Proper Tightening)

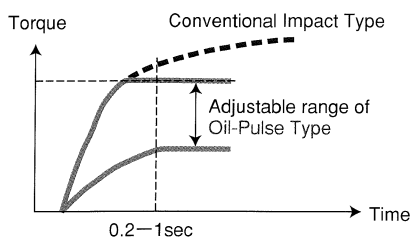
SHUT-OFF

CONTROLLING DEVICE

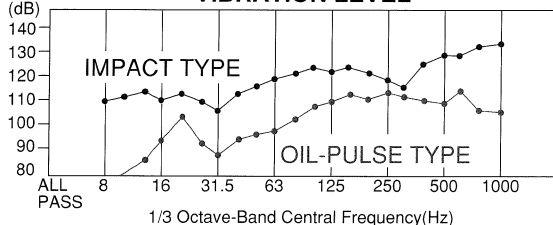
ERGONOMIC DESIGNED HANDLE

(operator friendly without torque reaction)

TORQUE CHART



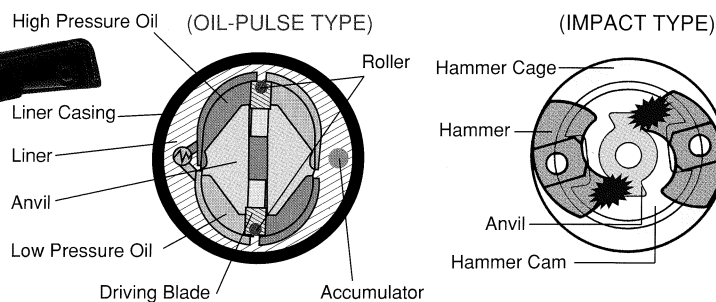
VIBRATION LEVEL



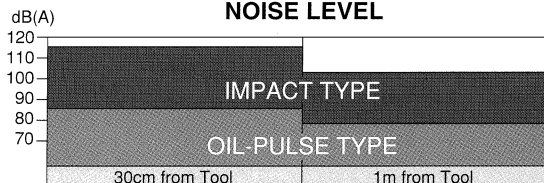
FEATURES OF UBP-T SERIES

Offers a healthy work environment featuring operator comfort while reducing fatigue. The Hydraulic Pulse Action of Battery Oil-Pulse tools minimizes noise & vibration generated by the structural metal-to-metal contact of Battery Impact Types, eliminating most wearing parts thus producing cost savings. Cordless Oil-Pulse Tools automatically shut off at preset torque regardless of joint rate & operator's experience in addition to easy torque adjustment.

DIFFERENCE OF FASTENING MECHANISM



NOISE LEVEL



SPECIFICATIONS

(Subject to change without notice)

Model	Capacity (Nominal Bolt Size)		Torque Range		Free Speed (Approx.)	Overall Length (about)		Weight Less Battery (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Number of Fastening per Charge	Noise Level	Vibration Level
	mm	in	Nm	ft-lbs	r.p.m	mm	in	Kg	lb	mm	in	mm	in	Hard Joint	dB(A)	m/sec ²
UBP-T40	6	1/4	6-12	4.4-8.9	2,200	211	8 5/16	1.2	2.64	28.0	1 7/64	6.35	1/4	420	85.0	8.0
UBP-T40 (P)	6	1/4	Under Development													
UBP-T50	6-8	1/4-5/16	8-22	5.9-16.3	2,200	211	8 5/16	1.2	2.64	28.0	1 7/64	6.35	1/4	490	85.0	8.0
UBP-T50 (P)	6-8	1/4-5/16	Under Development													
UBP-T60	8	5/16	14-26	10.4-19.2	2,200	216	8 1/2	1.3	2.85	28.0	1 7/64	6.35	1/4	470	85.0	8.0
UBP-T60 (P)	8	5/16	14-26	10.4-19.2	2,200	212	8 11/32	1.3	2.85	28.0	1 7/64	9.5	3/8	470	85.0	8.0
UBP-65	※ 8	5/16	15-30	11.1-22.2	2,200	189	7 7/16	1.2	2.64	28.0	1 7/64	6.35	1/4	530	83.0	7.0
UBP-65 (P)	※ 8	5/16	20-37	14.8-27.4	2,200	189	7 7/16	1.2	2.64	28.0	1 7/64	9.5	3/8	530	83.0	7.0

Numbers of tightenings per charge varies depending on torque level, fastener length and application. ※Non Shut-off Type

Recommended Battery Charger : Panasonic Model EY0230B(AC110V~230V). Recommended Battery Pack : Panasonic Model EY9200B(DC12V)

(Please procure above parts from the local supplier of Panasonic products in your country.)

URYU SEISAKU, LTD.

P.O.Box 7, Higashinari, Osaka, Japan
Telephone Nos. OSAKA(6973)9414-9416
Fax. No. 06-6972-0346
E-Mail: uryuair@uryu.co.jp

Distributed by :

Claims should be filed only with distributors within ten(10) days from delivery.
For further information, please contact at any time your nearest URYU distributor.

URYU DIGITAL TESTER UET-10C

OPERATIONS

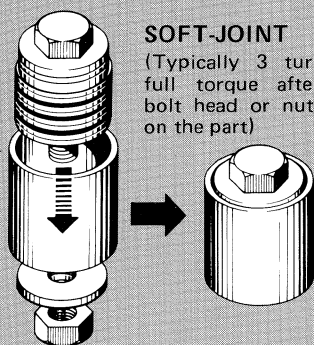
- 1) Push POWER SWITCH. (If point lamps on DIGITAL DISPLAY PANEL go on and off, recharging by battery charger is needed.)
- 2) Keep pushing RESET BUTTON and simultaneously adjust ZERO ADJ KNOB until DIGITAL DISPLAY PANEL reads 0.00.
- 3) Set CONVERSION SWITCH to your measuring unit (in-lb, kg-cm and Nm)
- 4) Depress CAL. BUTTON to verify if the circuitry of the tester functions correctly. DISPLAY PANNEL should reach the following figures in each measuring unit:-
 99.5 ~ 100.5 in-lbs
 114.7 ~ 115.7 kfg-cm
 11.25 ~ 11.35 Nm
- 5) Set up Testing Attachment on SOCKET SHAFT and apply the tool for testing.

SPECIFICATIONS

Capacity Range	0 — 10.0 Nm
Tolerance	Better than $\pm 0.5\%$
Response Frequency	700 Hz
Power Source	Charged Battery (Built-in Nickel-Cadmium Battery)
Charging Hour	Approx. 15 hours
Torque Detection Method	Electronic conversion of twist stress through a strain gauge
Read-Out	LED Digital System
Size (Approx.)	190 mm x 160 mm x 65 mmH 7- $\frac{31}{32}$ " x 6- $\frac{19}{64}$ " x 2- $\frac{9}{16}$ " H
Weight (Approx.)	2.3 kgs (5.1 lbs)

USAGE OF TESTING ATTACHMENT

- Testing Attachment (Standard Accessory 2) is applied as follows, according to the fastener conditions.



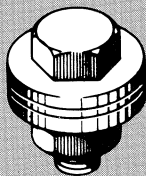
SOFT-JOINT

(Typically 3 turns to full torque after the bolt head or nut seats on the part)

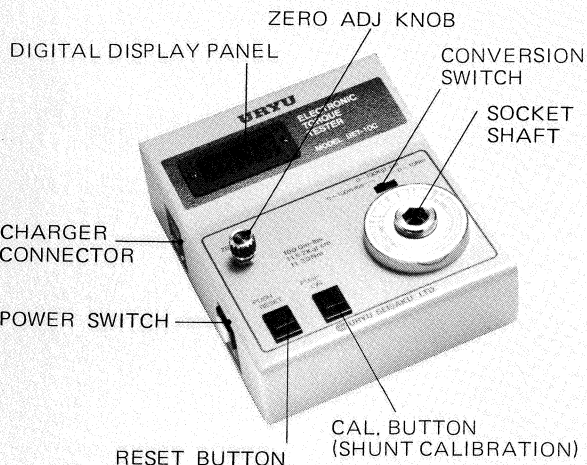
Apply Plate Springs, Testing Bolt (for soft-joint test) Spacer, Nut, and Casing. The Plate Springs are available in both weak and strong tensions.

HARD-JOINT

(Typically 1/10 turn to full torque after the bolt head or nut seats on the part)



Apply Testing Bolt (for hard joint test) and Nut (without Casing, Spacer and Plate Springs).



STANDARD ACCESSORIES

1. Battery Charger (AC Adaptor) DC 8.7V 45mA
2. Testing Attachment: 1 set
3. Strong Plate Springs for soft joint test: 1set
4. Socket Bit 13mm x 100mm (5mm Hex) 1 pc.
5. Socket Bit 13mm x 100mm (6.35mm Hex) 1 pc.
6. Testing Bolt for hard-joint test 1 pc.

OPTIONAL ACCESSORY



IMPORTANT

- 1) Perform ZERO ADJUSTMENT mentioned in OPERATION 2) occasionally as this tester is very sensitive to the environment.
- 2) Never provide higher torque than 10 Nm. (100 in-lbs.)
- 3) Never apply the tools of such impacting mechanism as impact clutches, cushion clutches, etc.

 **URYU SEISAKU, LTD.**

P. O. Box 7, Higashinari, Osaka, Japan
 Telephone Nos. OSAKA (6973) 9414-9416
 Fax. No. 06-6972-0346

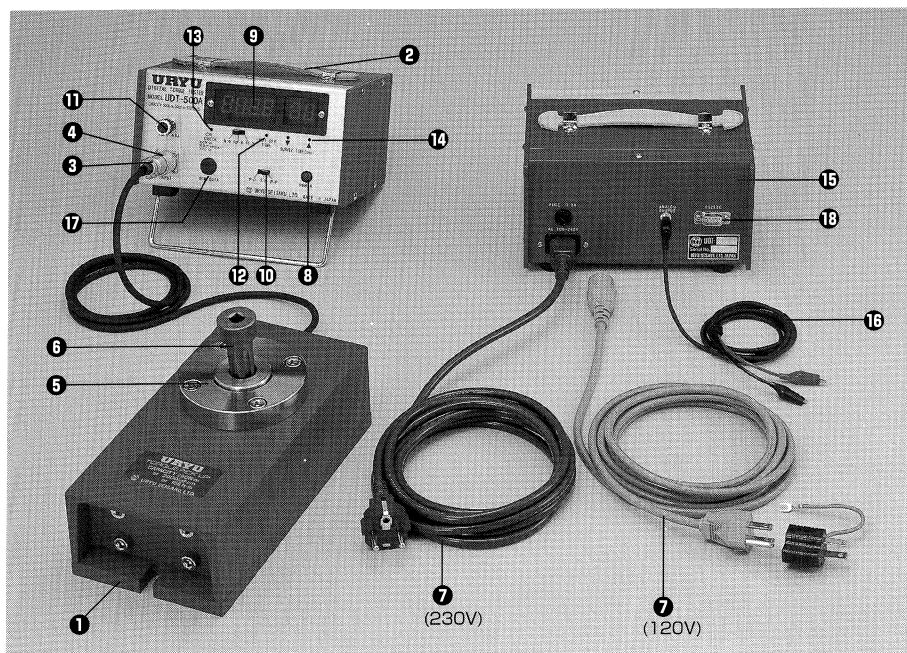
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OPERATION MANUAL FOR DIGITAL TORQUE TESTERS

Warning !



- Never apply torque higher than the specific rated output.
(Max. 200Nm for UDT-200 & 500Nm for UDT-500)
- Never disassemble. Never give strong shock or vibration.
- Never use under situation giving direct rays of the sun, high humidity or dust.
- Before using and installing, read and understand these instructions.



- (1) Mount PICKUP ① firmly with mounting bolts (M14) on either horizontal or vertical surface base.
- (2) Set Connecting Jack ③ of PICKUP ① to Receptacle ④ of Amplifier ②.
- (3) Put a suitable Testing Adaptor ⑥ into Socket ⑤ of PICKUP ①.
- (4) Connect Power Cord ⑦ with plug and put Power Switch ⑧ on. Power Cord connection is not necessary in case of using built-in battery. Display panel ⑨ indicates "0.0" (UDT-200) or "0" (UDT-500).
- (5) Zero Adjustment ⑪
When the readout does not display "0.0" or "0", set PEAK Switch Knob ⑩ to [T-R] and turn ZERO ADJ. Knob ⑪ right or left until the readout shows "0.0" or "0".
- (6) INDI. OFF TIME ⑫
The readout holding is adjustable in period within 0 ~ 3 sec. when [P-P] or [P-D] is selected. By pressing INDI. OFF TIME ⑫ with a pen-point as thin as needle, you can adjust the readout holding time that the display automatically returns to zero. Unless you set PEAK Switch Knob ⑩ to [T-R], readout display on LED is maintained.

- (7) PEAK SWITCH KNOB ⑩
P-P Measures all peak torque values and displays the highest peak torque within the measuring time on LED display panel. Set Peak Switch Knob ⑩ to [P-P] position for measuring torque output of power tools such as Oil-Pulse Tools (U, UX, Alpha, UL series) and Angle Nutrunners. The digital readout on LED is maintained during 0.5-3.0 seconds preset by INDI. OFF TIME ⑫ and automatically returns to zero.
P-D Indicates peak torque readout which had been the highest before applied torque went down. Select [P-D] position for monitoring torque preset type Manual Torque Wrenches. The digital readout on LED is maintained for the preset time and is cancelled automatically the same as above [P-P].
T-R Use [T-R] position to cancel readout display on LED under INDI. OFF TIME ⑫ "0.0" setting or to make zero adjustment and CAL.CHECK.
- (8) CAL CHECK ⑬
Is used for verification of normal function of the tester. Set PEAK Switch Knob ⑩ to [T-R] position. Then press CAL. CHECK Switch ⑬ to

confirm LED display panel indicating below range of figures.

Torque Unit	UDT-200A(E)	UDT-500A(E)
Nm	189.5 ~ 190.5	485 ~ 495
Kgf-cm/Kgf-m	1933 ~ 1943	45 ~ 55
Ft-lb	139.6 ~ 140.6	356 ~ 366

(9) BLOW COUNTER

Number of pulse-blow for the period of time (adjustable 0.1~9.9 sec) preset by SURVEY TIME ⑭ is displayed. The indication is cancelled after maintenance for time preset by INDI. OFF TIME ⑫. This function operates only when PEAK Switch Knob ⑩ is set at [P-P] position. Press ▲ right side (increase) or ▼ left side (decrease) SURVEY TIME ⑭ by a writing-tip-shape material to adjust monitor time 0.1-9.9 sec. LED display panel indicates 4-digit peak torque on the left and 2-digit blow numbers on the right. The max. counting number is 99 blows and repeated when SURVEY TIME ⑭ is set for long operation.

(10) ANALOG OUTPUT ⑮

The connecting cable (standard accessory) is available to connect the tester with such an auxiliary instrument as recorder. Plug CONNECTING CABLE ⑮ in analog OUTPUT ⑮ for the connection.

(Maximum output is 1.5V/R.O. 7.5mV/R.O.)

(11) PRINTER (OPTION)

Connect RS type printer cord with TERMINAL ⑯.

(12) MEMORY function

While keep pressing MEM.DATA Switch ⑰ press POWER switch ⑧ together, and either ON or OFF on display panel is indicated. (Then press MEM.DATA switch ⑰, and the indication is changed ON to OFF or OFF to ON.) Select ON in case of using memory function and wait for about 5 seconds, and the front panel indicates "0" for measuring torque.

* Maximum 250 data can be stored.

Press MEM.DATA switch ⑰, and a new paragraph opens (1 memory is reduced). Press this switch 2 times, and 2 new lines begin (2 memories are reduced).

* Memory data output

Connect RS type printer cord with terminal ⑯ and press MEM.DATA ⑰ 2 times. Front panel displays "P" and torque data outputs.

* Memory delete

Keep pressing MEM.DATA Switch ⑰ for more than 3 seconds, and front panel displays "ALL". Then press MEM.DATA Switch ⑰ again, and front panel displays "CLR" (clear) and torque data is deleted.

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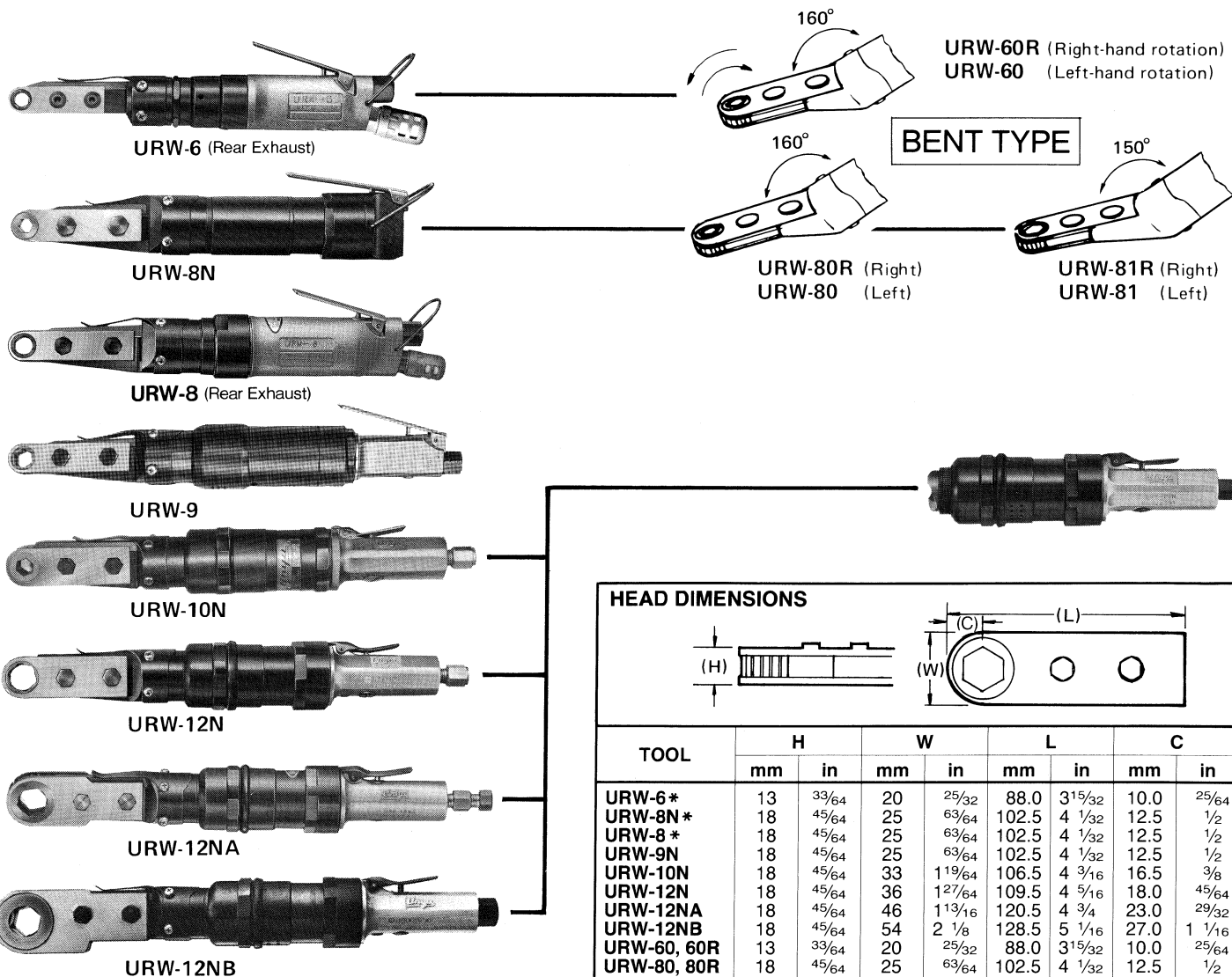
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URYU AIR RATCHET WRENCHES



HEAD DIMENSIONS							
TOOL	H		W		L		C
	mm	in	mm	in	mm	in	mm
URW-6*	13	33/64	20	25/32	88.0	3 15/32	10.0
URW-8N*	18	45/64	25	63/64	102.5	4 1/32	12.5
URW-8*	18	45/64	25	63/64	102.5	4 1/32	12.5
URW-9N	18	45/64	25	63/64	102.5	4 1/32	12.5
URW-10N	18	45/64	33	1 19/64	106.5	4 3/16	16.5
URW-12N	18	45/64	36	1 27/64	109.5	4 5/16	18.0
URW-12NA	18	45/64	46	1 13/16	120.5	4 3/4	23.0
URW-12NB	18	45/64	54	2 1/8	128.5	5 1/16	27.0
URW-60, 60R	13	33/64	20	25/32	88.0	3 15/32	10.0
URW-80, 80R	18	45/64	25	63/64	102.5	4 1/32	12.5
URW-81, 81R	18	45/64	25	63/64	102.5	4 1/32	12.5

* Thinner Side Plate of 10mm is available (option).

SPECIFICATIONS

Model	Capacity (Nominal Bolt Size)		Max. Torque			Free Speed (about)	Overall Length (about)		Weight (about)		* Hex. Size of available Ratchet Wheels ○ Standard		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
	mm	in	Nm	kgf-m	ft-lbs		mm	in	kg	lb	mm	in		mm	in	m³/min.	ft³/min.
URW-6	M 6	15/64	10.78	1.1	7.95	200	292	11 1/2	1.15	2.54	7, 8, ⑩, 12	3/8	N.P.T. 1/4	9.5	3/8	0.28	9.9
URW-8N	M 8	5/16	15.68	1.6	11.56	220	300	11 13/16	1.80	3.96	9, 10, 12, ⑭	7/16, 1/2, 9/16	N.P.T. 1/4	9.5	3/8	0.55	19.5
URW-8	M 8	5/16	15.68	1.6	11.56	240	360	14 3/16	1.80	3.96	9, 10, 12, ⑭	7/16, 1/2, 9/16	N.P.T. 1/4	9.5	3/8	0.56	19.5
URW-9N	M10	3/8	31.36	3.2	23.13	200	380	15	2.30	5.06	9, 10, 12, ⑭	7/16, 1/2, 9/16	N.P.T. 1/4	9.5	3/8	0.67	23.7
URW-10N	M10	3/8	56.84	5.8	41.92	150	394	15 33/64	2.65	5.83	12, 14, ⑰	9/16, 5/8, 1 1/16	N.P.T. 1/4	9.5	3/8	0.70	25.0
URW-12N	M13	1/2	58.80	6.0	43.38	150	397	15 5/8	2.70	5.94	19, ⑳	3/4, 13/16	N.P.T. 1/4	9.5	3/8	0.70	25.0
URW-12NA	M14	35/64	78.40	8.0	57.84	100	408	16 1/16	3.00	6.60	22, ②④, 27	3/4, 7/8, 15/16, 1	N.P.T. 1/4	9.5	3/8	0.70	25.0
URW-12NB	M16	5/8	93.10	9.5	68.69	85	416	16 9/16	3.20	7.04	29, ③②, 32	3/4, 7/8, 15/16, 1	N.P.T. 1/4	9.5	3/8	0.70	25.0
URW-60R	M 6	15/64	10.78	1.1	7.95	200	288	11 11/32	1.15	2.54	7, 8, ⑩, 12	3/8	N.P.T. 1/4	9.5	3/8	0.28	9.9
URW-60	M 6	15/64	10.78	1.1	7.95	200	288	11 11/32	1.15	2.54	7, 8, ⑩, 12	3/8	N.P.T. 1/4	9.5	3/8	0.28	9.9
URW-80R	M 8	5/16	15.68	1.6	11.56	220	300	11 13/16	1.80	3.96	9, 10, 12, ⑭	7/16, 1/2, 9/16	N.P.T. 1/4	9.5	3/8	0.55	19.5
URW-80	M 8	5/16	15.68	1.6	11.56	220	300	11 13/16	1.80	3.96	9, 10, 12, ⑭	7/16, 1/2, 9/16	N.P.T. 1/4	9.5	3/8	0.55	19.5
URW-81R	M 8	5/16	15.68	1.6	11.56	220	300	11 13/16	1.80	3.96	9, 10, 12, ⑭	7/16, 1/2, 9/16	N.P.T. 1/4	9.5	3/8	0.55	19.5
URW-81	M 8	5/16	15.68	1.6	11.56	220	300	11 13/16	1.80	3.96	9, 10, 12, ⑭	7/16, 1/2, 9/16	N.P.T. 1/4	9.5	3/8	0.55	19.5

* When ordering, specify Hex. size of Ratchet required. Otherwise the standard Ratchet is equipped. (Standard size is circled.)

Standard Accessories: Air Hose Nipple and Tools for disassembly if needed.

Recommended Air Pressure: 0.6MPa (85psi)

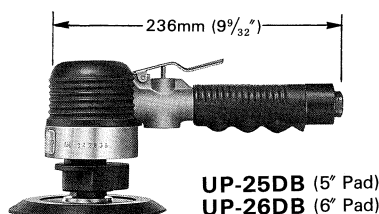
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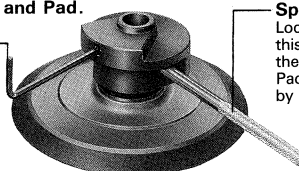
DUAL ACTION ORBITAL SANDERS



UP-25DB (5" Pad)
UP-26DB (6" Pad)

**Setting and removing
Balancer and Pad.**

Allen Wrench
Set the Balancer to the Spindle and lock them together by the screw put in the groove on the Spindle.
(Be sure to use screw lockite for firm setting.)



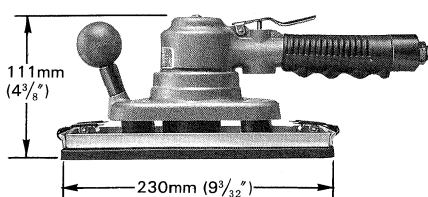
Spanner
Lock the Balancer by this spanner through the hole in the Pad to fasten or loosen by hand.

SPECIFICATIONS

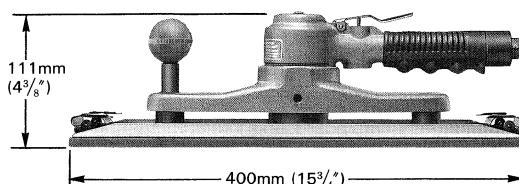
Model	Pad Diameter		Free Speed (about)	Overall Height (about)		Weight (about)		Air Inlet Threaded (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
	mm	in	r.p.m.	mm	in	kg	lb	in	mm	in	m ³ /min.	ft ³ /min.
UP-25DB	125	5	9,000	120	4 3/4	1.76	3.88	N.P.T. 1/4	6.4	1/4	0.60	21
UP-26DB	150	6	8,000	120	4 3/4	1.80	3.97	N.P.T. 1/4	6.4	1/4	0.60	21

Recommended Air Pressure: 0.6MPa(85psi) Standard Accessories: Air Hose Nipple, Tools for setting Balancer.

ORBITAL SANDERS with rectangular pads

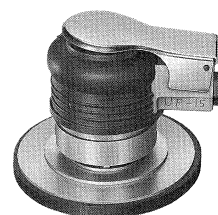


Model UP-200-20



Model UP-200-40

PALM-GRIP TYPE



Model UP-15

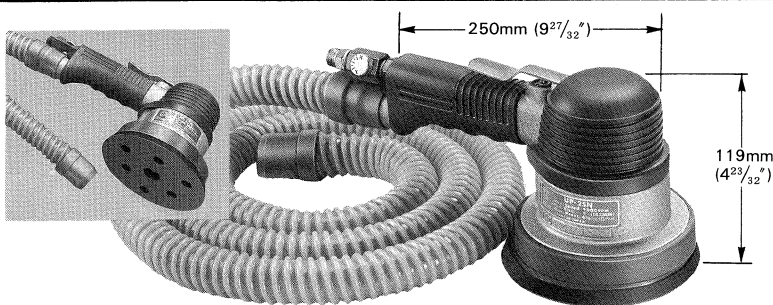
SPECIFICATIONS

Model	Pad Size (Width × Length)		Free Speed (about)	Weight (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
	mm	in	r.p.m.	kg	lb	in	mm	in	m ³ /min.	ft ³ /min.
UP-200-20	115 × 230	4 1/2 × 9 3/32	6,000	2.60	5.73	N.P.T. 1/4	9.50	3/8	0.50	17.65
UP-200-40	70 × 400	2 3/4 × 15 3/4	6,000	2.60	5.73	N.P.T. 1/4	9.50	3/8	0.50	17.65
UP-15	125 (Dia.)	5 (Dia.)	8,000	1.20	2.64	N.P.T. 1/4	6.35	1/4	0.45	16.00
UP-150	75 × 145	3 × 5 3/4	6,500	1.30	2.87	N.P.T. 1/4	6.35	1/4	0.45	16.00

Recommended Air Pressure: 0.6MPa(85psi) Standard Accessories: Air Hose Nipple, Tools for disassembly.

SELF-SUCTION TIPE with holed pads

(No powered vacuum cleaner is needed)



UP-25NB (5" Pad)
UP-26NB (6" Pad)

Sanded residue is sucked directly through the holes of the pads and corresponding holed sanding papers.

Holed Sanding Paper

MODEL	UP-15N UP-25NB	UP-26NB	UP-100-10N	UP-200-17N
PADE SIZE (mm)	125mm (5")	150mm (6")	100mm (3 15/16")	175mm (6 7/8")
PADE SIZE (in)	5"	6"	3 15/16"	6 7/8"

SPECIFICATIONS

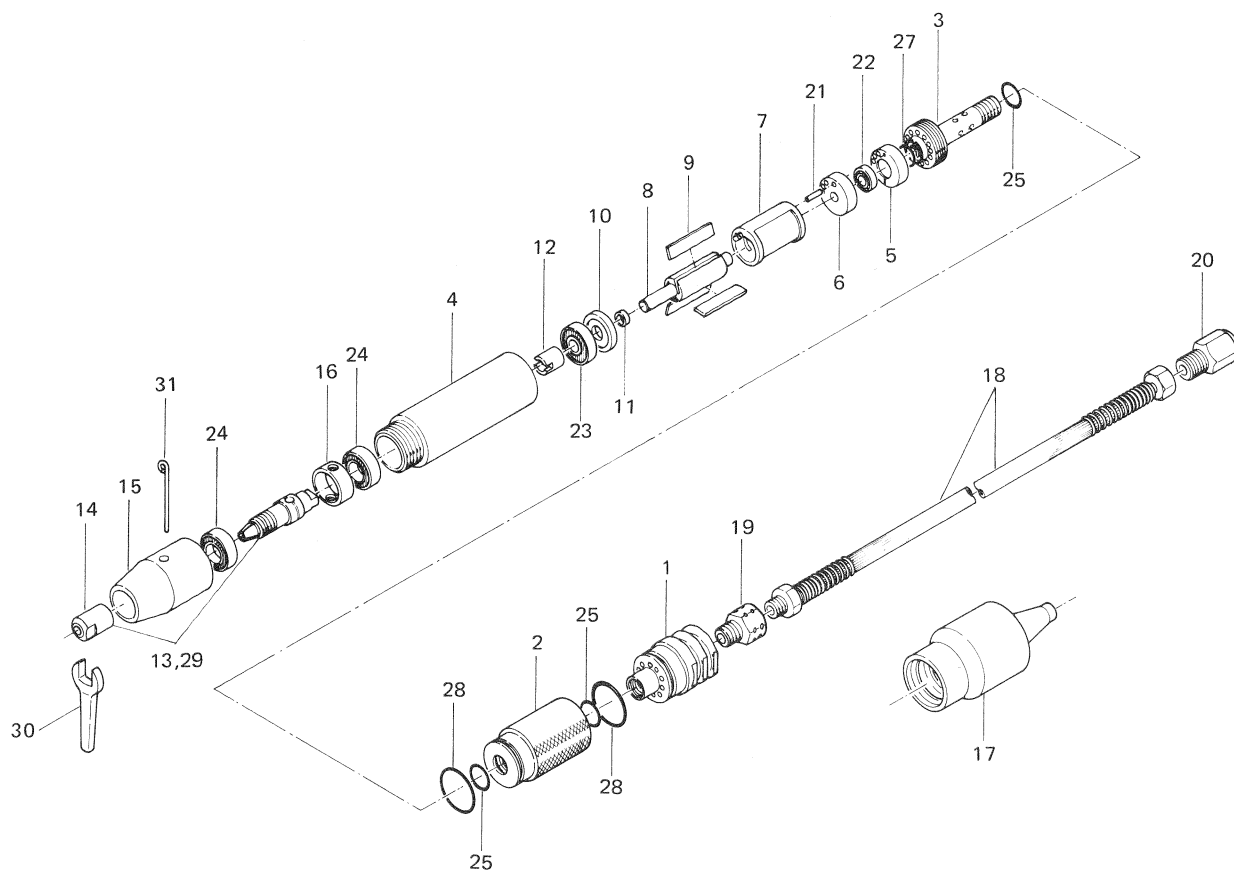
Model	Pad Size (Diameter)/(Width × Length)		Free Speed (about)	Weight (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption (about)	
	mm	in	r.p.m.	kg	lb	in	mm	in	m ³ /min.	ft ³ /min.
UP-15N	125	5	9,000	1.50	3.30	N.P.T. 1/4	6.35	1/4	0.45	16.0
UP-25NB	125	5	9,000	1.85	4.07	N.P.T. 1/4	9.50	3/8	0.60	21.2
UP-26NB	150	6	9,000	2.03	4.47	N.P.T. 1/4	9.50	3/8	0.60	21.2
UP-100-10N	90 × 100	3 5/8 × 3 15/16	6,000	1.00	2.20	N.P.T. 1/8	6.35	1/4	0.40	14.0
UP-200-17N	100 × 175	3 15/16 × 6 7/8	9,000	2.20	4.40	N.P.T. 1/4	9.50	3/8	0.65	23.0

Recommended Air Pressure: 0.6MPa(85psi) Standard Accessories: Air Hose Nipple, Tools for disassembly.

Distributed by

UMG-450 MIDGET GRINDER

EXPLODED VIEW



PARTS LIST

Index No.	Code No.	Part Name	Q'ty	Index No.	Code No.	Part Name	Q'ty
UMG-450 MIDGET GRINDER				#17	408-780-0	Exhaust Stack	1
# 1	587-091-1	Air Inlet Bushing	1	#18	934-200-0	Air Hose Assembly (3/16)	1
# 2	587-015-2	Valve Handle	1	#19	942-100-0	Connecting Screw (NPT 1/8x1/8)	1
# 3	587-014-3	Handle Body	1	#20	942-140-0	Connecting Screw (NPT 1/4xPS 1/4)	1
# 4	587-025-1	Casing	1	#21	971-050-0	Pin (1.2x10)	1
# 5	587-291-1	Rear Plate Spacer	1	#22	987-360-0	Miniature Ball Bearing (L940)	1
# 6	587-285-1	Rear Plate	1	#23	987-040-0	Miniature Ball Bearing (R1640ZZ)	1
# 7	587-286-1	Cylinder	1	#24	987-421-0	Miniature Ball Bearing (L1680ZZ)	2
# 8	587-287-2	Rotor	1	#25	990-006-0	O-Ring (P8)	3
# 9	587-288-1	Blade	3	#27	990-204-0	O-Ring (JW1516-4)	1
#10	587-289-1	Front Plate	1	#28	990-590-0	O-Ring (17x1)	2
#11	587-296-1	Front Plate Spacer	1	#29	923-551-0	Collet Chuck Assembly (1/8)	1
#12	587-411-2	Chuck Retainer	1	STANDARD ACCESSORIES			
#13	923-550-0	Collet Chuck Assembly (3mm)	1	#30	936-508-0	Spanner (8)	1
#14	587-412-1	Chuck Nut	1	#31	939-004-0	Spanner (3x70)	1
#15	587-012-1	Head Cover	1				
#16	587-380-1	Bearing Retainer Bushing	1				

When ordering spare parts, please specify tool type, code number and part name.

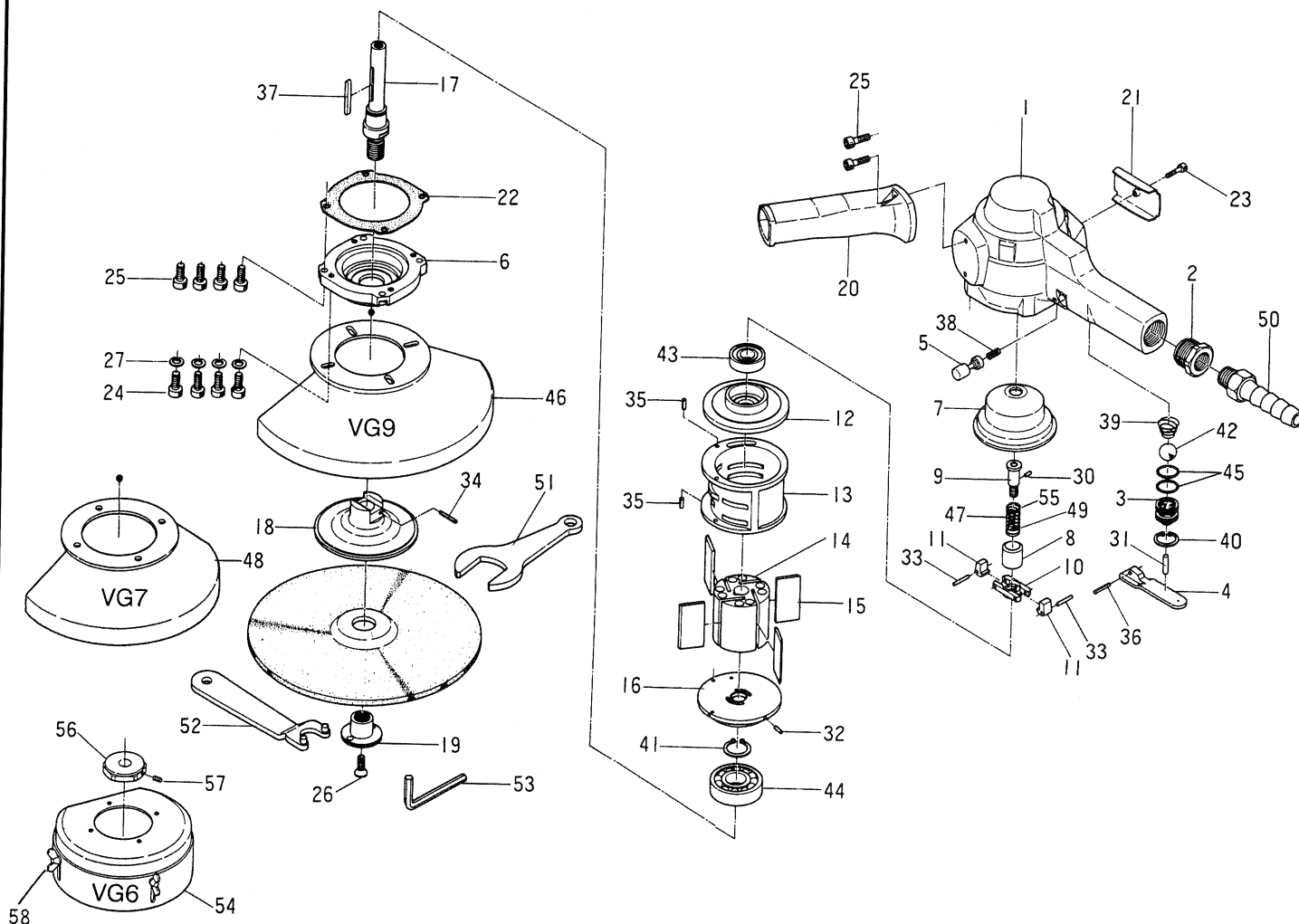
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VG6-45, VG7-76, VG9-59 VERTICAL GRINDERS

EXPLODED VIEW



PARTS LIST

Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity	Index No.	Code No.	Parts Name	Quantity
# 1	523-025-1	Casing	1	#24	945-214-0	Allen Head Bolt (M6×14)	4	Parts for VG9-59			
# 2	523-091-0	Air Inlet Bushing	1	#25	945-218-0	Allen Head Bolt (M6×18)	6	#46	523-770-1	Wheel Guard	1
# 3	523-101-0	Valve Bushing	1	#26	948-453-0	Allen Head Screw (M6×18)	1	#47	976-343-0	Spring (13.6×16.5)(1.4)	1
# 4	566-107-5	Valve Lever	1	#27	962-009-0	Spring Washer (2-6S)	4	Parts for VG7-76			
# 5	585-765-1	Safety Pin	1	#25	965-021-0	Heli-Sert (M6×1.5D)	6	#48	523-770-4	Wheel Guard	1
# 6	523-012-1	Head Cover	1	#29	965-022-0	Heli-Sert (M6×2D)	4	#49	976-339-0	Spring (13.5×19×1.6)	1
# 7	523-013-0	Inner Cover	1	#30	970-205-0	Pin (H)(3×7)	1	Parts for VG6-45			
# 8	593-170-4	Governor Valve	1	#31	970-321-0	Pin (H)(4×21)	1	#54	523-895-6	Cap Wheel Guard Assembly	1
# 9	593-176-4	Governor Spindle	1	#32	973-070-0	Roll Pin (2.5×10)	1	#55	976-338-0	Spring (13.3×30×1.0)	1
#10	591-181-7	Governor Cage	1	#33	973-120-0	Roll Pin (3×20)	2	#56	892-035-1	Spacer (Cup Wheel)	1
#11	593-183-3	Governor Weight	2	#34	973-122-0	Roll Pin (3×22)	1	#57	953-114-0	Allen Head Screw (M4×14)	1
#12	523-285-0	Rear Plate	1	#35	973-160-0	Roll Pin (3.5×10)	2	#58	959-201-0	Wing Bolt (M6×14)	3
#13	523-286-0	Cylinder	1	#36	973-170-0	Roll Pin (3.5×20)	1	Accessories			
#14	518-287-6	Rotor	1	#37	974-140-0	Key (4×40)	1	#50	940-127-0	Air Hose Nipple (NPT1/2×3/4)	1
#15	518-288-6	Blade	4	#38	976-114-0	Spring (6×18×0.55)	1	#51	936-524-0	Spanner (24)	1
#16	523-289-0	Front Plate	1	#39	977-281-0	Cone Spring (12×19.5×19)	1	#52	938-057-0	Spanner (6×30×170)	1
#17	523-390-0	Wheel Spindle (Out)	1	#40	979-015-0	Inner Snap Ring (22)	1	#53	939-105-0	Allen Wrench(4)	1
#18	592-393-4	Wheel Holder Flange(B/F)	1	#41	979-117-0	Outer Snap Ring (20)	1				
#19	518-394-7	Wheel Nut Flange	1	#42	981-216-0	Ball (Black-5/8)	1				
#20	523-720-0	Dead Handle	1	#43	982-242-0	Ball Bearing (6202Z)	1				
#21	523-021-0	Exhaust Deflector	1	#44	982-344-0	Ball Bearing (6304Z)	1				
#22	523-853-1	Head Cover Packing	1	#45	990-916-0	O-Ring (SNS18)	2				
#23	945-018-0	Allen Head Bolt (M4×18)	1								

When ordering spare parts, please specify tool type, code number and part name.

Printed in Japan

URYU SEISAKU, LTD. Osaka, Japan

For further information, please contact at any time your nearest URYU distributor.