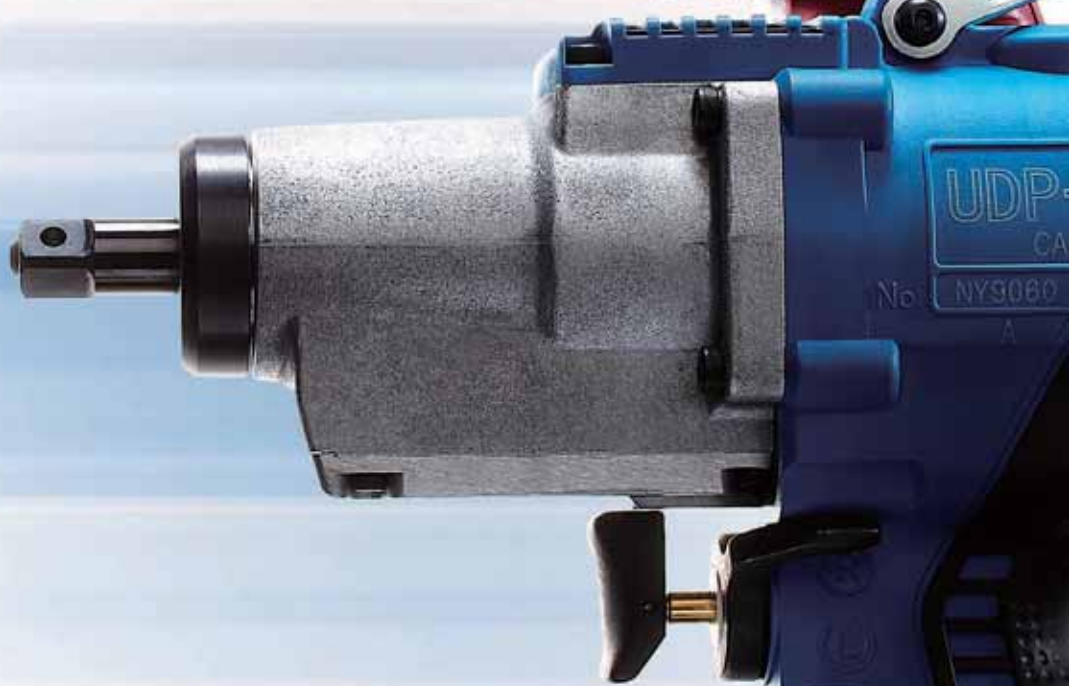
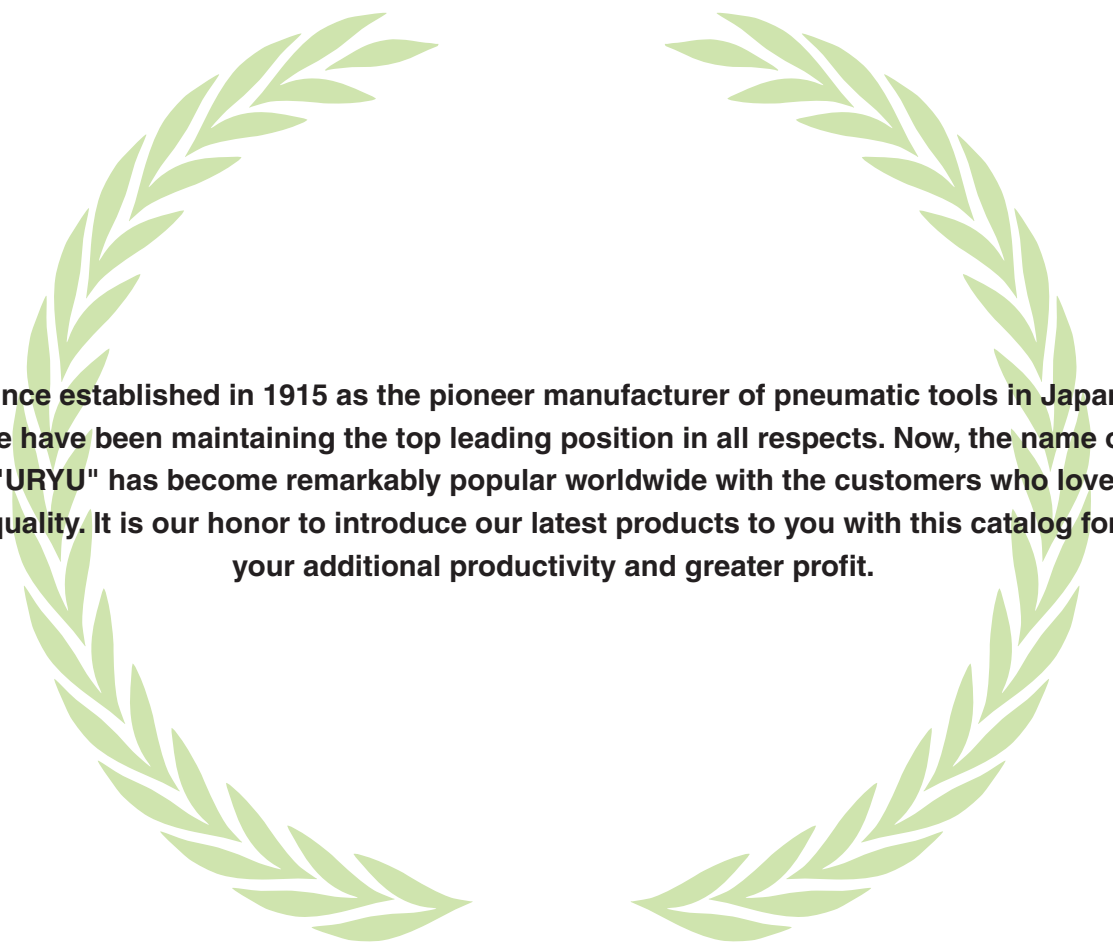


URYU

POWER TOOLS GENERAL CATALOG



PIONEER of PNEUMATIC TOOLS in JAPAN established in 1915



Since established in 1915 as the pioneer manufacturer of pneumatic tools in Japan, we have been maintaining the top leading position in all respects. Now, the name of "URYU" has become remarkably popular worldwide with the customers who love quality. It is our honor to introduce our latest products to you with this catalog for your additional productivity and greater profit.

URYU has acquired ISO14001 and ISO9001 certifications.

CONTENTS

| | |
|---------------------------------|---|
| CLASSIFICATION OF URYU PRODUCTS | 2 |
| OPERATOR'S SAFETY MANUAL | 4 |

| | |
|-------------------------------|----------|
| BOLT & NUT SETTERS | 7 |
|-------------------------------|----------|

| | |
|---|----------|
| SELECTION CHART & TORQUE CHART | 8 |
|---|----------|

| | |
|---------------------------|-----------|
| OIL-PULSE WRENCHES | 10 |
|---------------------------|-----------|

| | |
|------------|----|
| UAT SERIES | 11 |
| ULT SERIES | 14 |
| UL SERIES | 17 |

| | |
|--------------------------|-----------|
| FASTENING COUNTER | 19 |
|--------------------------|-----------|

| | |
|------------------------------------|----|
| UTM-1500 SERIES | 19 |
| ALPHA SERIES | 21 |
| UX-T SERIES | 22 |
| U • UX • UXR SERIES | 23 |
| SUPER "INTELEC" SYSTEM CONTROLLERS | 26 |
| UDP-MC SERIES | 29 |
| ELECTRIC SERIES | 30 |
| MC/EC SERIES | 33 |
| BATTERY SERIES | 36 |

| | |
|------------------------|-----------|
| IMPACT WRENCHES | 38 |
|------------------------|-----------|

| | |
|-------------|----|
| UW SERIES | 40 |
| ACCESSORIES | 44 |

| | |
|---|-----------|
| RATCHET / OPEN-END / GEARED WRENCHES | 46 |
|---|-----------|

| | |
|------------------|----|
| URW SERIES | 46 |
| UOW / UGW SERIES | 47 |

| | |
|-------------------------|-----------|
| ANGLE NUTRUNNERS | 48 |
|-------------------------|-----------|

| | |
|------------------|----|
| ELECTRIC SERIES | 48 |
| PNEUMATIC SERIES | 49 |

| | |
|----------------------------|-----------|
| MULTIPLE NUTRUNNERS | 50 |
|----------------------------|-----------|

| | |
|----------|----|
| F SERIES | 50 |
|----------|----|

| | |
|---------------------|-----------|
| SCREWDRIVERS | 51 |
|---------------------|-----------|

| | |
|------------------------|-----------|
| SELECTION CHART | 52 |
|------------------------|-----------|

| | |
|-----------------------|-----------|
| TORQUE CONTROL | 54 |
|-----------------------|-----------|

| | |
|--------------|----|
| US-LT SERIES | 54 |
|--------------|----|

| | |
|--------------------|-----------|
| OTHER TYPES | 57 |
|--------------------|-----------|

| | |
|-----------------------|----|
| CUSHION CLUTCH SERIES | 57 |
| DIRECT DRIVE SERIES | 58 |
| IMPACT SERIES | 59 |
| OIL-PULSE SERIES | 60 |
| ACCESSORIES | 62 |

| | |
|-----------------------|-----------|
| ABRASIVE TOOLS | 63 |
|-----------------------|-----------|

| | |
|----------------------------------|-----------|
| VARIOUS TYPES OF GRINDERS | 64 |
|----------------------------------|-----------|

| | |
|----------------------------|-----------|
| SANDERS / POLISHERS | 71 |
|----------------------------|-----------|

| | |
|--|-----------|
| SAFETY INSTRUCTION FOR GRINDERS | 72 |
|--|-----------|

| | |
|-----------------------------|-----------|
| DRILLS & TAPPERS | 73 |
|-----------------------------|-----------|

| | |
|---------------------------|-----------|
| DRILLS (UD SERIES) | 74 |
|---------------------------|-----------|

| | |
|--------------------------------------|-----------|
| TAPPERS (UT & URD SERIES) | 76 |
|--------------------------------------|-----------|

| | |
|-------------------------|-----------|
| PERCUSSION TOOLS | 77 |
|-------------------------|-----------|

| | |
|-------------------------|-----------|
| RIVETING HAMMERS | 78 |
|-------------------------|-----------|

| | |
|----------------------|-----------|
| FLUX CHIPPERS | 79 |
|----------------------|-----------|

| | |
|--|-----------|
| CHIPPING & CAULKING HAMMERS | 79 |
|--|-----------|

| | |
|-----------------------------|-----------|
| TESTERS & OTHERS | 81 |
|-----------------------------|-----------|

| | |
|---------------------------------|-----------|
| VARIOUS TYPES OF TESTERS | 82 |
|---------------------------------|-----------|

| | |
|--|-----------|
| DECLARATION OF NOISE & VIBRATION EMISSION | 85 |
|--|-----------|

| | |
|---------------------|-----------|
| URYU NETWORK | 97 |
|---------------------|-----------|

URYU

POWER TOOLS GENERAL CATALOG

**BOLT & NUT SETTERS / SCREWDRIVERS / ABRASIVE TOOLS /
DRILLS & TAPPERS / PERCUSSION TOOLS / TESTERS & OTHERS**

(Individual catalog sheets and parts lists are available for further information.)

NEW MODELS

Pneumatic Tool 12

UAT200

The largest model for UAT series.



Electric Tool 29

UDP-MC Series

Cooling fan contributes to heat reduction and increase number of fastening.



Battery Tool 36

UDBP-TA Series

Improved accuracy and efficiency due to auto relief function.



BOLT & NUT SETTERS

SCREWDRIVERS

ABRASIVE TOOLS

DRILLS & TAPPERS

PERCUSSION TOOLS

TESTERS & OTHERS

DECLARATION OF NOISE & VIBRATION EMISSION

URYU NETWORK

CLASSIFICATION OF URYU PRODUCTS

| | | |
|--|------------------------|-------------------------------------|
| BOLT & NUT SETTERS | | 7 |
| OIL-PULSE WRENCHES | | 8 |
|  | UAT SERIES | PISTOL/STRAIGHT TYPE 11 |
| | ULT SERIES | PISTOL TYPE 14 |
| | | STRAIGHT/ANGLE TYPE 16 |
| | UL SERIES | PISTOL/STRAIGHT TYPE 17 |
|  | UTM-1500 SERIES | FASTENING COUNTER WITH POKA-YOKE 19 |
| | ALPHA SERIES | PISTOL/ANGLE TYPE 21 |
| | U/UX/UXR SERIES | PISTOL/STRAIGHT/ANGLE TYPE 22 |
|  | SUPER "INTELEC" SYSTEM | CONTROLLER 26 |
| | | UDP-MC SERIES 29 |
| | | DRIVER • CONTROLLER 30 |
|  | SUPER "INTELEC" SYSTEM | UEP ELECTRIC SERIES 31 |
| | | UAMC SERIES/UAAMC SERIES 33 |
| | | UAAMC SERIES 34 |
| | | ALPHA-MC SERIES/UXR-MC SERIES 35 |
| | | U/UX-EC SERIES 35 |
|  | BATTERY SERIES | UDBP SERIES 36 |
| | | UBP SERIES 37 |
| IMPACT WRENCHES | | 38 |
|  | UW SERIES | PISTOL TYPE 40 |
| | | STRAIGHT/ANGLE TYPE 41 |
| | | ER SERIES 42 |
| | | JUMBO TYPE 44 |
| | | STUD BOLT TYPE 44 |
| RATCHET/OPEN-END/GEARED WRENCHES | | 46 |
|  | URW SERIES | RATCHET WRENCHES 46 |
| | UOW SERIES | OPEN-END WRENCHES 47 |
| | UGW SERIES | GEARED WRENCHES 47 |
| ANGLE NUTRUNNERS | | 48 |
|  | UAN SERIES | TORQUE CONTROL ELECTRIC SERIES 48 |
| | | TORQUE CONTROL MECHANICAL SERIES 49 |
| MULTIPLE NUTRUNNERS | | 50 |
|  | MULTIPLE NUTRUNNERS | F SERIES 50 |

SCREWDRIVERS

51

TORQUE CONTROL TYPES

54



| | | |
|--------------|---------------|----|
| US-LT SERIES | STRAIGHT TYPE | 54 |
| | PISTOL TYPE | 55 |
| | ANGLE TYPE | 56 |

OTHER TYPES

57



| | | |
|-----------------------|----------------------|----|
| CUSHION CLUTCH SERIES | STRAIGHT TYPE | 57 |
| | PISTOL/ANGLE TYPE | 58 |
| DIRECT DRIVE SERIES | PISTOL TYPE | 58 |
| IMPACT SERIES | PISTOL/STRAIGHT TYPE | 59 |
| OIL-PULSE SERIES | PISTOL/STRAIGHT TYPE | 60 |

ABRASIVE TOOLS

63

GRINDERS

64



| | | |
|------------------|---------------------|----|
| UG SERIES | DIE GRINDERS | 64 |
| | HORIZONTAL GRINDERS | 66 |
| AG SERIES | ANGLE GRINDERS | 67 |
| USG SERIES | ANGLE GRINDERS | 67 |
| USG & UVG SERIES | VERTICAL GRINDERS | 68 |
| UAG SERIES | ANGLE GRINDERS | 69 |

SANDERS & POLISHERS

71



| | | |
|-----------|-----------|----|
| UP SERIES | SANDERS | 71 |
| | POLISHERS | 71 |

DRILLS & TAPPERS

73

DRILLS & TAPPERS

74



| | | |
|------------|----------------------|----|
| UD SERIES | PISTOL TYPE | 74 |
| | STRAIGHT TYPE | 75 |
| | ANGLE TYPE | 75 |
| URD SERIES | HEAVY DUTY TYPE | 76 |
| UT SERIES | PISTOL/STRAIGHT TYPE | 76 |

PERCUSSION TOOLS

77

PERCUSSION TOOLS

78



| | | |
|------------------|------------------------------|----|
| SBH & BRH SERIES | RIVETING HAMMERS | 78 |
| BRH & UFC SERIES | IMPACT CUTTERS/FLUX CHIPPERS | 79 |
| AA & PB SERIES | CHIPPING & CAULKING HAMMERS | 79 |

TESTERS & OTHERS

81

TESTERS & CHECKERS

82



| | | |
|------------------------|------------------------|----|
| UDT SERIES | DIGITAL TORQUE TESTERS | 82 |
| UET & UFT & UHT SERIES | OTHER TESTERS | 83 |
| UFT-SP SERIES | CHECKERS | 83 |

BOLT & NUT SETTERS

SCREWDRIVERS

ABRASIVE TOOLS

DRILLS & TAPPERS

PERCUSSION TOOLS

TESTERS & OTHERS

DECLARATION OF NOISE & VIBRATION EMISSION

URVU NETWORK

OPERATOR'S SAFETY MANUAL FOR URYU POWER TOOLS



Safety Instructions

General Safety

- Only qualified and trained operators should install, adjust or use the tool.
- Do not modify the tool. Modifications can reduce the effectiveness of safety measures and increase the risks to the operator.

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.
- Always secure workpiece. Use clamps or other practical way to secure and support the workpiece to a stable platform.
- Be aware of slippery surfaces caused by use of the tool and of trip hazards caused by the air line.
- Keep bystanders and visitors away while operating the tool. Distraction can cause you to lose control.

Personal Safety

- Maintain a balanced body position and secure footing. Avoid awkward or off-balanced postures.
- 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.
- Dress properly. Do not wear loose clothing, jewellery and neck ware. Keep your hair, clothing and gloves away from all moving parts.
- 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 such as crushing, impacts, cuts and abrasions and heat.



-Always wear impact-resistant eye protection during the operation of the tool. The grade of protection required should be assessed for each use.

-Remove any adjusting wrench before turning the tool on. A wrench that is left attached to a rotating part of the tool may result in personal injury.

-Ensure that the workpiece is securely fixed.



Noise

-Use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations. Look after your hearing protection.

-Always ensure that the silencer is in place and in good working order when the tool is operating.

Vibration

- 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.
- Use sleeve fittings where practicable.

OPERATOR'S SAFETY MANUAL FOR URYU POWER TOOLS

Dust and Fumes

-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.

Pneumatic Safety

- Do not exceed the maximum air pressure stated on the tool.
- Use correct hoses and always check for damaged or loose hoses and fittings. Whipping hoses can cause severe injury.
- 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.
- Never direct air at yourself or anyone else.

Electrical Safety

- Do not handle the tool, controller, battery or charger with wet hands.
- Do not expose the tool, controller, battery and charger to rain or wet conditions.
- Do not abuse the power cable. Do not pull the power cable for carrying the tool, controller or charger or disconnecting the power plug from the power point.
- Arrange the power cable so that it may not be stepped, caught or stressed for damages.
- Do not attempt to open, disassemble, modify or service the battery pack.
- Do not crush, puncture, shorten external contracts or circuits, dispose of in fire or water. Keep the battery away from metal objects such as paper clips, coins, keys, screws or other small metal objects that can lead to short circuit.
- Do not expose batteries to temperatures above 40°C.
- Keep the battery and charger dry and away from water or any liquid as it may cause a short circuit.
- Do not use a battery that appears damaged, deformed or discoloured or the one that has any rust on its casing, overheats or emits a foul odour.
- Do not attempt to solder anything to the battery. It will dissolve insulations, destroy the gas exhaust valve or the protection circuit.
- Do not place any object on the charger nor cover the battery with flammable things while charging.
- Leaks from battery cells can occur under extreme conditions. Do not allow the leaking fluid to come in contact with skin or clothing. If already in contact, flush the affected area immediately with clean water and seek medical advice. If the liquid comes in contact with eyes, DO NOT rub; rinse with clean water immediately for minimum 10 minutes and seek medical help. Liquid ejected from the battery may cause irritation or burns.
- Take extra precautions to keep a leaking battery away from fire as there is a danger of ignition or explosion.
- Do not use charger if it is damaged by a drop or is with a damaged power cable.

OPERATOR'S SAFETY MANUAL FOR URYU POWER TOOLS

Residual Risks

- Gloves can become entangled with the rotating drive, causing severed or broken fingers. Rotating drive sockets and drive extensions can easily entangle rubber coated or metal reinforced gloves.
- 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)

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.
- Check for misalignment or binding of moving parts, breakage of parts and any other condition that may affect the tool operation. If damaged, get the tool repaired before use.
- Select and maintain and replace the socket / bit properly to prevent an unnecessary increase in noise / vibration level(s).
- Check attached tools such as sockets, grinding wheel etc. and replace them if worn or damaged.
- Clean the exhaust silencer and filter frequently or replace in order to prevent clogging and decreased power.
- 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.

BOLT & NUT SETTERS



PHOTO ; MODEL NO. UXR-TL1820 1993
STILL USED AT USERS

UAT · ULT · UL SERIES OIL-PULSE TOOLS
ALPHA SERIES OIL-PULSE TOOLS
UX-T SERIES OIL-PULSE TOOLS
U · UX · UXR SERIES OIL-PULSE TOOLS
SUPER INTELEC SYSTEM MC · EC TOOLS
ELECTRIC OIL-PULSE TOOLS
BATTERY OIL-PULSE TOOLS
IMPACT WRENCHES
MULTIPLE NUTRUNNERS
RATCHET WRENCHES
OPEN-END / GEARED WRENCHES
ANGLE NUTRUNNERS
ELECTRIC ANGLE NUTRUNNERS
FASTENING COUNTER

*Sound Level measured to ISO 15744

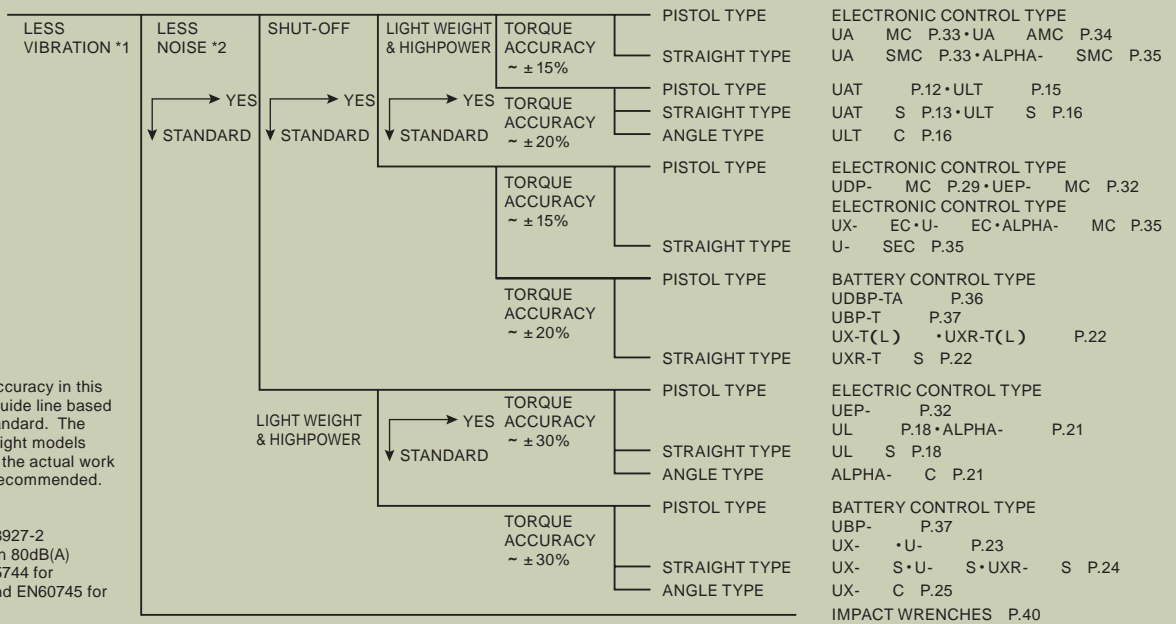


SELECTION CHART & TORQUE CHART FOR OIL-PULSE WRENCHES

(Attention) The torque accuracy in this chart is the guide line based on Uryu's standard. The selection of right models according to the actual work standard is recommended.

*1 Vibration Level
Less than 2.5m/s²
...measured to ISO 28927-2

*2 Noise Level Less than 80dB(A)
...measured to ISO 15744 for pneumatic tools and EN60745 for electric tools.

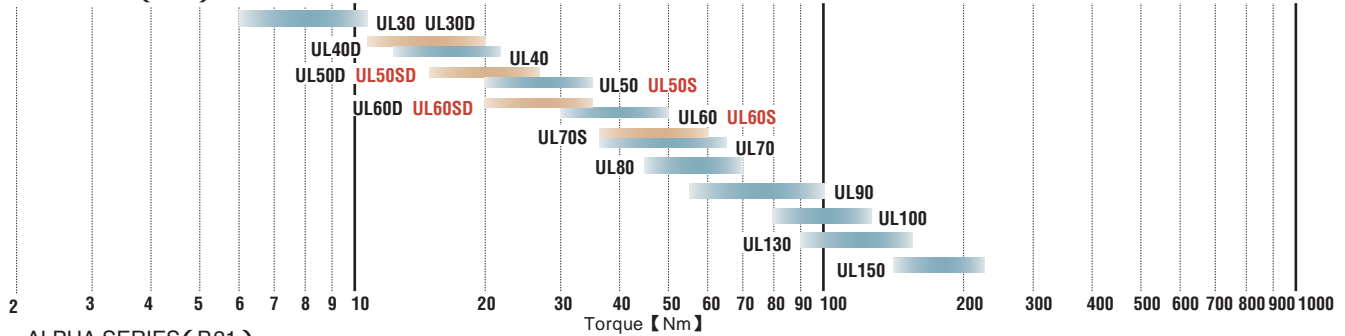


The torque chart is made based on the measurement of our standard, and the actual fastening power can be different. Please use this chart as a reference when selecting the model.

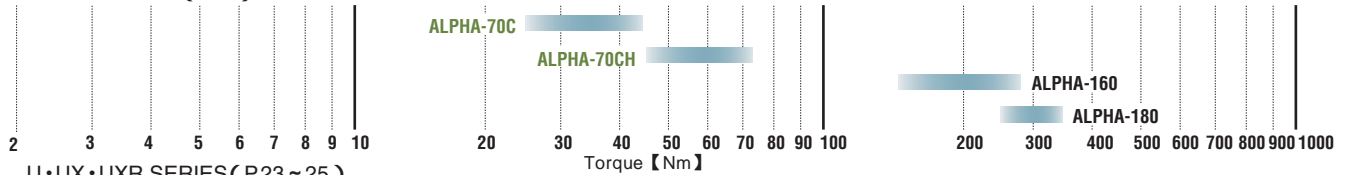


STANDARD TYPE

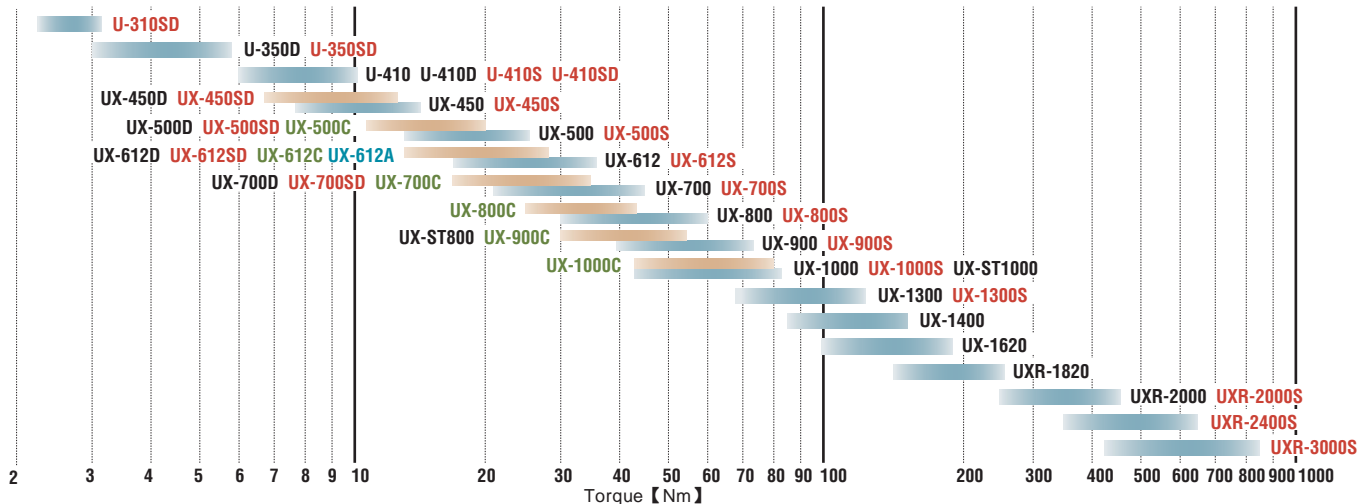
UL SERIES (P.18)



ALPHA SERIES (P.21)



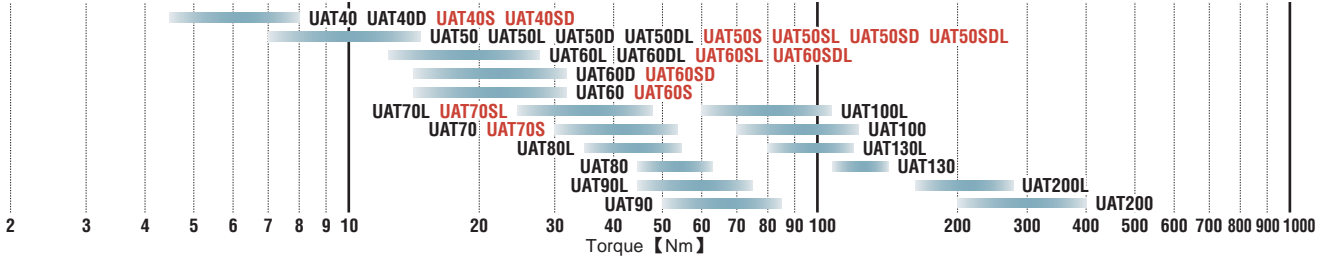
U·UX·UXR SERIES (P.23 ~ 25)



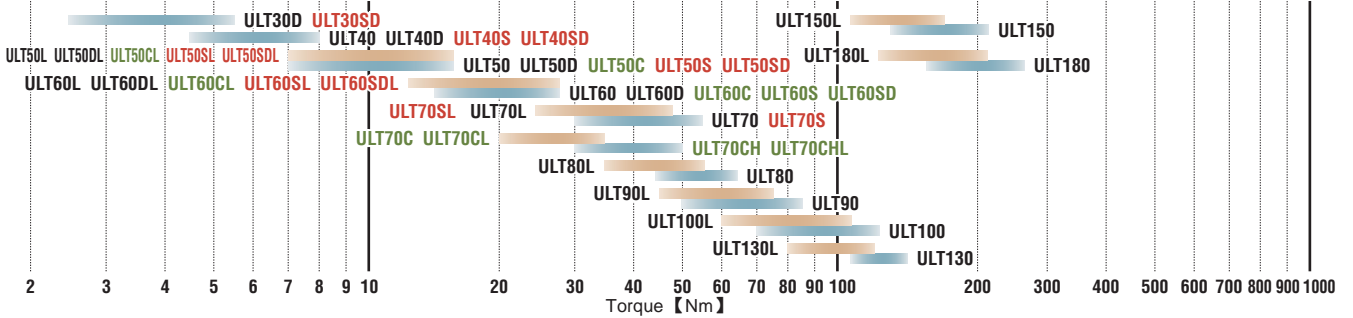
TORQUE CHART FOR OIL-PULSE WRENCHES

TORQUE-CONTROL TYPE

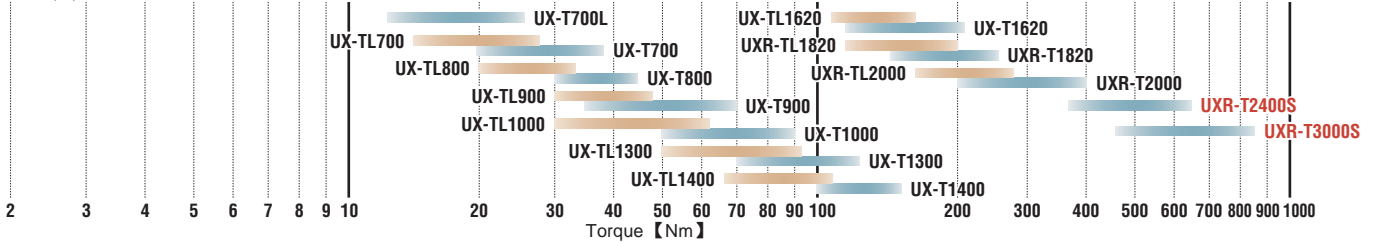
UAT SERIES (P.12 ~ 13)



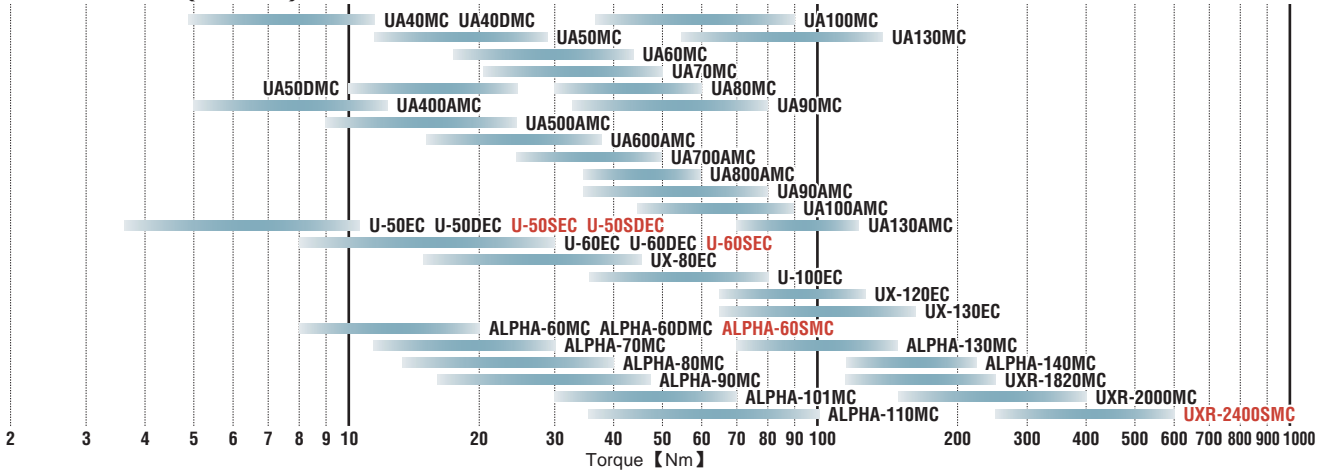
ULT SERIES (P.15 ~ 16)



UX(R)-T SERIES (P.22)

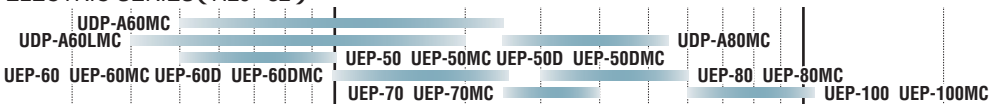


MC·EC SERIES (P.33 ~ 35)

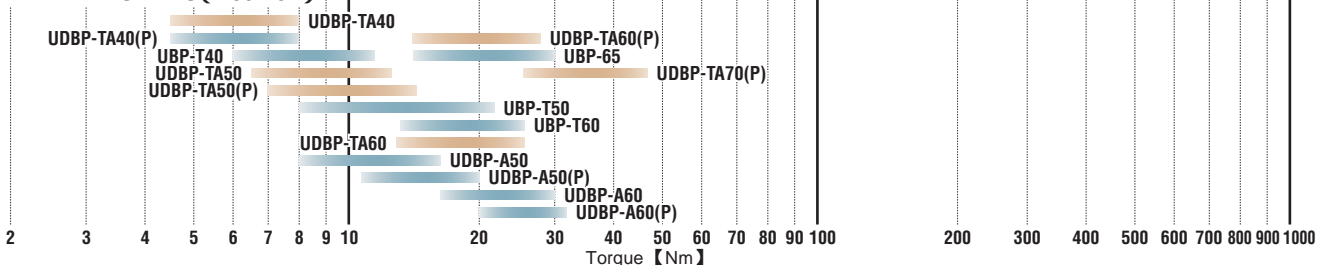


ELECTRIC & BATTERY TYPE

ELECTRIC SERIES (P.29 · 32)



BATTERY SERIES (P.36 ~ 37)



OIL-PULSE TOOLS

One pulse per rotation is actualized in the two-blade impulsing mechanism to be capable of producing higher torque with less vibration.

In the mechanism 2 blades and 4 seal points are provided for maximum energy utilization, while 1 blade and 2 seal points in the single blade mechanism. 2 seal points are aligned concentrically and 2 other seal points are made eccentric by some degree from the center line in order not to make the sealing status in 180 degree rotation (in case of 180 degree rotation sealing, 2 pulses/rotation...low power impulsing). This innovation enables two blades to more efficiently absorb impulsing power to deliver about 30 - 40% higher torque than the single blade mechanism.

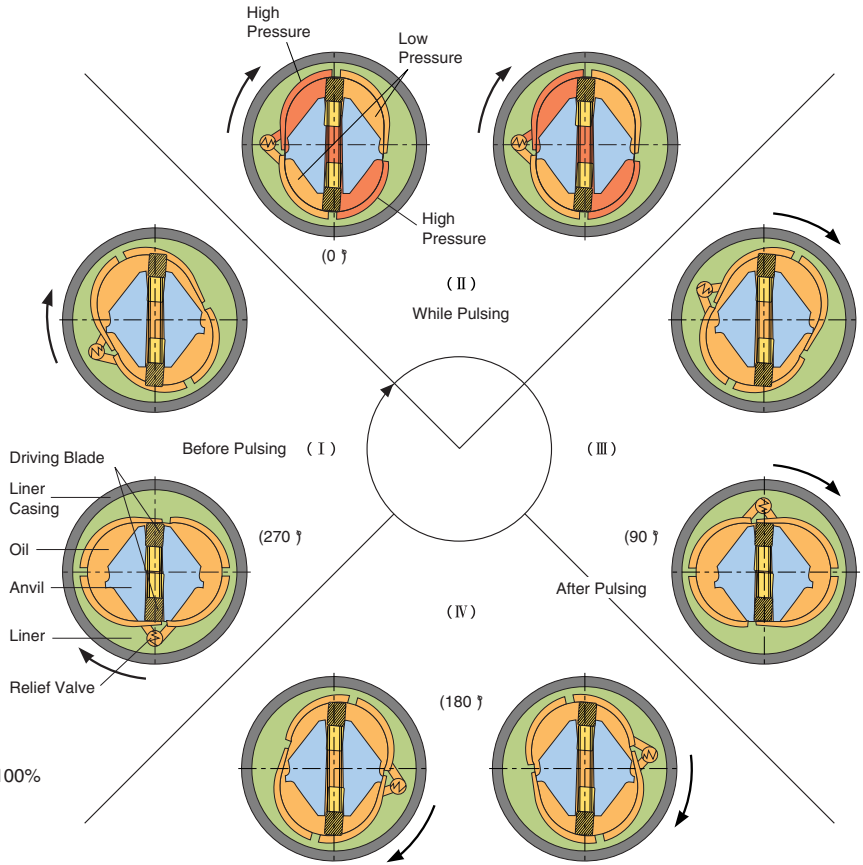


Fig. 1 Joint

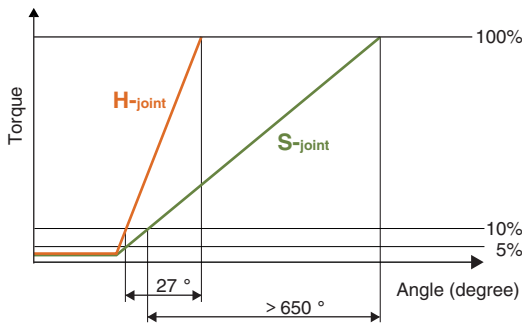
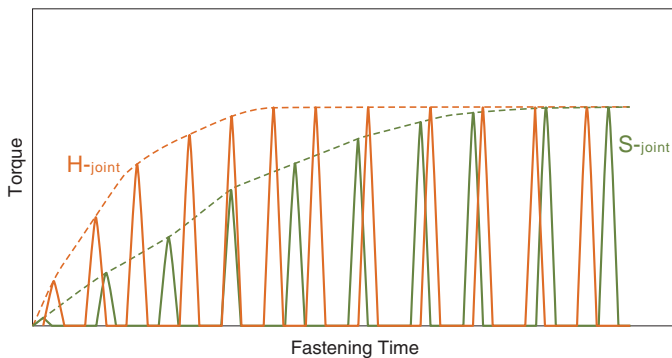


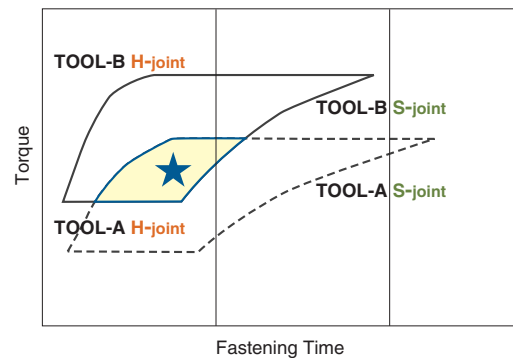
Fig. 2 Fastening with Oil-Pulse Tool (H-S Joint)



As shown above Fig. 2, torque output curve of the hard joint and soft joint is different when the same torque setting against same tool is applied. (Difference of torque raise up speed and time to reach the target torque.)

When selecting the tool for fastening operation, it is necessary to consider bolt size, fastening torque, working conditions and so on. Generally, working conditions can be defined as hard joint (H-joint) and soft joint (S-joint) from the aspect of relation between fastening torque and angle. (Please refer to ISO-5393.) It is also necessary to consider characteristics of work pieces.

Fig. 3 Tool selection by work feature



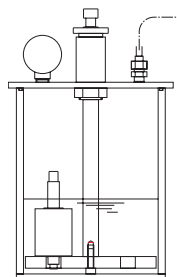
When selecting the tool against the target torque of as shown Fig. 3, pay attention to the operating conditions (tool weight, fastening time), required torque accuracy, torque adjusting position of tools and select the most suitable model.

OIL FILLER FOR PULSE UNIT

The new **UOF-2** eliminates troublesome process of oil-filling procedure repeated at previous model UOF-1 due to employment of the powerful vacuuming system. Use pulstar / pulvis oil (see table 1) and do not substitute any other fluid.

Table 1

| Oil Fluid | Q'ty | Part Number |
|--|------|-------------|
| Pulstar Oil | 1L | 998-700-0 |
| | 5L | 998-701-0 |
| | 10L | 998-702-0 |
| | 20L | 998-703-0 |
| Pulvis Oil (used for UBP-45 & 65/ALPHA-61/ALPHA-T40D-T62 series) | 1L | 998-715-0 |
| | 5L | 998-716-0 |
| | 10L | 998-717-0 |

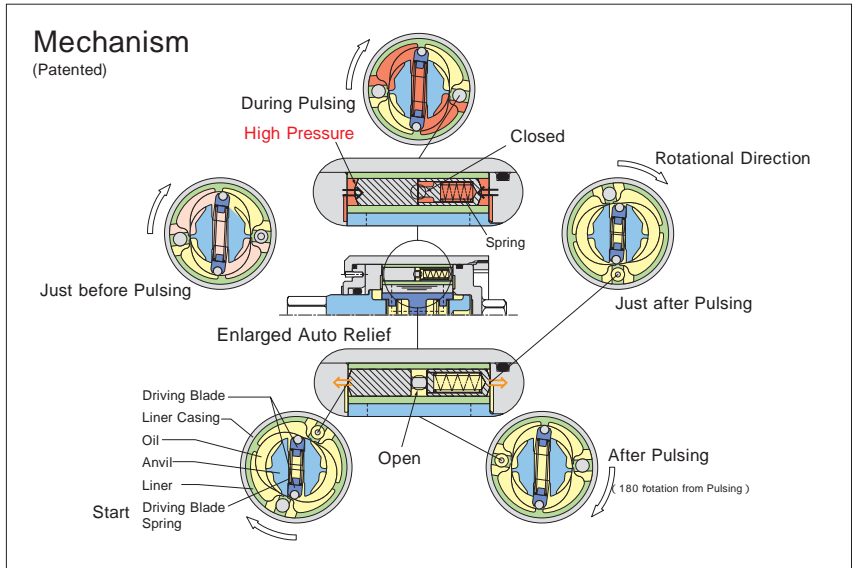


UAT SERIES OIL-PULSE TOOLS

Relief Valve changes the area of bypass which plays its roles in transferring the oil pressure generated in pulse unit from high pressured area to low pressured area and adjusts the torque and number of blows depending on the target torque.

However, the area of bypass in the existing relief valve system is decided at a proper adjustment position of final target torque, thus it was not possible to change the area of bypass while fastening. Newly developed "Auto Relief Function" changes the area of bypass depending on the process of fastening, which the existing relief valve does not. This new function offers you more ideal fastening than the conventional relief valve.

Also, make the final target torque adjustment with Relief Valve as heretofore



BOLT & NUT SETTERS

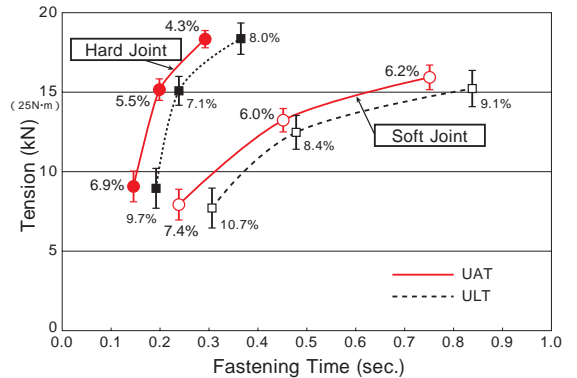
Working Efficiency Advancement

- Improvement 1. Fastening Accuracy 30% UP^{*1}**
Applicable for any kind of fastening operation
- Improvement 2. Fastening Time 30% CUT^{*2}**
Contribution for Energy Saving

(*1, *2 According to the comparison under our factory check)

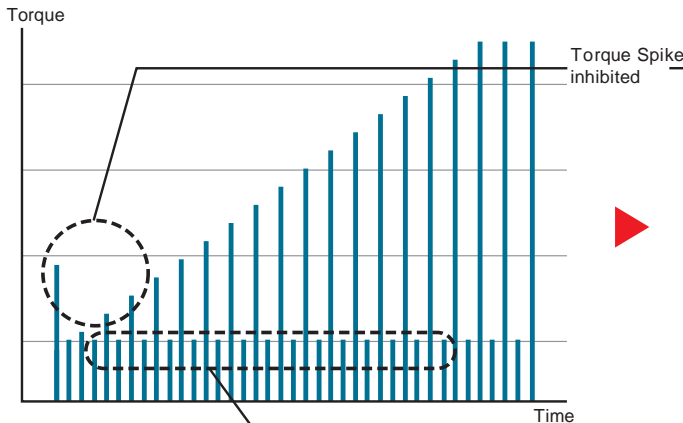
As auto-relief is fully opened when the bolt seats, torque spike is inhibited. UAT40 series and UAT50 series, we have adopted Triple-Chamber Motor, are more effective. As auto-relief is fully opened when not pulsing, resistance pulse, which is 180-degree opposite direction from rotation, gets smaller as well as oil-flow resistance. Because of this, the number of blow increases during the same time period. Reaching torque stability range earlier, the torque accuracy will be stable.

Fastening efficiency comparison (UAT vs ULT)



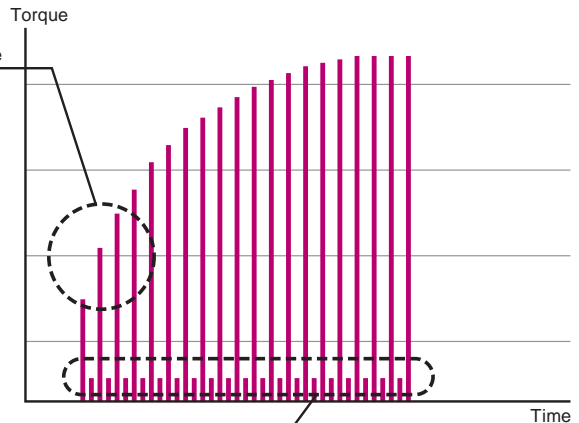
Conventional Relief Valve

Dimension of Bypass (fixed)



Auto-relief

Dimension of Bypass (changing)



Energy Loss decreasing

UAT SERIES OIL-PULSE TOOLS (SHUT-OFF TYPE)

PISTOL TYPE



(Standard Type)



(Low Air Pressure Type)



(D Type)



(TM-type)

SPECIFICATIONS

Recommended Air Pressure: 0.4MPa(57psi)~0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | | Overall Length less Socket or Bit (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|---------|---------------------------------|----------|--------------|-------------|------------|-----------|-----------------------------|--------|--------|---|----------|--|-------|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.4~0.5MPa | | 0.5~0.6MPa | | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.4MPa | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UAT40 | 5 | 13/64 | 4.5-8.0 | 3.3-5.9 | 4.5-8.0 | 3.3-5.9 | 3300 | 3600 | 3800 | 162 | 6 3/8 | 0.92 | 2.0 | 24.5 | 31/32 | 9.5 | 3/8 | 0.25 | 8.8 |
| UAT40D | 5 | 13/64 | 4.5-8.0 | 3.3-5.9 | 4.5-8.0 | 3.3-5.9 | 3300 | 3600 | 3800 | 165 | 6 1/2 | 0.92 | 2.0 | 24.5 | 31/32 | 6.35 | 1/4 | 0.25 | 8.8 |
| UAT50 | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 4400 | 4600 | 162 | 6 3/8 | 0.92 | 2.0 | 24.5 | 31/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UAT50D | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 4400 | 4600 | 165 | 6 1/2 | 0.92 | 2.0 | 24.5 | 31/32 | 6.35 | 1/4 | 0.30 | 10.5 |
| UAT60 | 8 | 5/16 | - | - | 15.0-32.0 | 11.1-23.7 | - | 6300 | 6700 | 174 | 6 27/32 | 0.95 | 2.1 | 24.5 | 31/32 | 9.5 | 3/8 | 0.35 | 12.3 |
| UAT60D | 8 | 5/16 | - | - | 15.0-32.0 | 11.1-23.7 | - | 6300 | 6700 | 177 | 6 31/32 | 0.95 | 2.1 | 24.5 | 31/32 | 6.35 | 1/4 | 0.35 | 12.3 |
| UAT70 | 8-10 | 5/16-3/8 | - | - | 30.0-55.0 | 22.2-40.7 | - | 5700 | 6000 | 180 | 7 3/32 | 1.05 | 2.3 | 25.5 | 1 | 9.5 | 3/8 | 0.40 | 14.0 |
| UAT80 | 10-12 | 3/8-1/2 | - | - | 45.0-63.0 | 33.3-46.6 | - | 5300 | 5600 | 186 | 7 5/16 | 1.25 | 2.8 | 28.0 | 1 3/32 | 9.5 | 3/8 | 0.48 | 16.8 |
| UAT90 | 10-12 | 3/8-1/2 | - | - | 50.0-85.0 | 37.0-62.9 | - | 5400 | 5700 | 192 | 7 9/16 | 1.45 | 3.2 | 29.0 | 1 5/32 | 12.7 | 1/2 | 0.53 | 18.6 |
| UAT100 | 12 | 1/2 | - | - | 70.0-130.0 | 51.8-96.2 | - | 4900 | 5200 | 199 | 7 27/32 | 1.70 | 3.7 | 31.5 | 1 1/4 | 12.7 | 1/2 | 0.55 | 19.3 |
| UAT130 | 14 | 9/16 | - | - | 110-150 | 81.4-111 | - | 4300 | 4500 | 217 | 8 35/64 | 2.30 | 5.06 | 34.0 | 1 11/32 | 12.7 | 1/2 | 0.70 | 24.6 |
| UAT200 | 18-20 | 3/4 | - | - | 200-400 | 148-296 | - | 2300 | 2400 | 279 | 10 63/64 | 5.80 | 12.76 | 47.5 | 1 7/8 | 19.0 | 3/4 | 1.00 | 35.2 |
| UAT50L | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 4000 | 4300 | - | 162 | 6 3/8 | 0.92 | 2.0 | 24.5 | 31/32 | 9.5 | 3/8 | 0.25 | 8.8 |
| UAT50DL | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 4000 | 4300 | - | 165 | 6 1/2 | 0.92 | 2.0 | 24.5 | 31/32 | 6.35 | 1/4 | 0.25 | 8.8 |
| UAT60L | 8 | 5/16 | 13.0-28.0 | 9.6-20.7 | - | - | 6000 | 6500 | - | 174 | 6 27/32 | 0.95 | 2.1 | 24.5 | 31/32 | 9.5 | 3/8 | 0.25 | 8.8 |
| UAT60DL | 8 | 5/16 | 13.0-28.0 | 9.6-20.7 | - | - | 6000 | 6500 | - | 177 | 6 31/32 | 0.95 | 2.1 | 24.5 | 31/32 | 6.35 | 1/4 | 0.25 | 8.8 |
| UAT70L | 8-10 | 5/16-3/8 | 25.0-48.0 | 18.5-35.5 | - | - | 5300 | 5600 | - | 180 | 7 3/32 | 1.05 | 2.3 | 25.5 | 1 | 9.5 | 3/8 | 0.30 | 10.5 |
| UAT80L | 10-12 | 3/8-1/2 | 35.0-55.0 | 25.9-40.7 | - | - | 5000 | 5300 | - | 186 | 7 5/16 | 1.25 | 2.8 | 28.0 | 1 3/32 | 9.5 | 3/8 | 0.40 | 14.0 |
| UAT90L | 10-12 | 3/8-1/2 | 45.0-75.0 | 33.3-55.5 | - | - | 5100 | 5600 | - | 192 | 7 9/16 | 1.45 | 3.2 | 29.0 | 1 5/32 | 12.7 | 1/2 | 0.45 | 15.8 |
| UAT100L | 12 | 1/2 | 60.0-110.0 | 44.4-81.4 | - | - | 4800 | 5200 | - | 199 | 7 27/32 | 1.70 | 3.7 | 31.5 | 1 1/4 | 12.7 | 1/2 | 0.48 | 16.8 |
| UAT130L | 12-14 | 1/2-9/16 | 80-125 | 59.2-92.5 | - | - | 4100 | 4400 | - | 217 | 8 35/64 | 2.30 | 5.06 | 34.0 | 1 11/32 | 12.7 | 1/2 | 0.50 | 17.6 |
| UAT200L | 16-18 | 5/8-3/4 | 170-280 | 125.8-207.2 | - | - | 2200 | 2300 | - | 279 | 10 63/64 | 5.80 | 12.76 | 47.5 | 1 7/8 | 19.0 | 3/4 | 0.70 | 24.6 |

Air Inlet Thread : N.P.T. 1/4"

Air Hose Size : 10x6.5x5m for UAT40 series - UAT50 series

12x8.0x5m for UAT60 series - UAT100 series

16x11.0x5m for UAT100L, UAT130(L), and UAT200(L)

UAT SERIES OIL-PULSE TOOLS (SHUT-OFF TYPE)

STRAIGHT TYPE



UAT40S



UAT60SD



UAT50SL



UAT70S



(Standard Type)



(Low Air Pressure Type)



(D Type)

"TM type is also available."

SPECIFICATIONS

Recommended Air Pressure:0.4MPa(57psi)~0.6MPa(85psi)

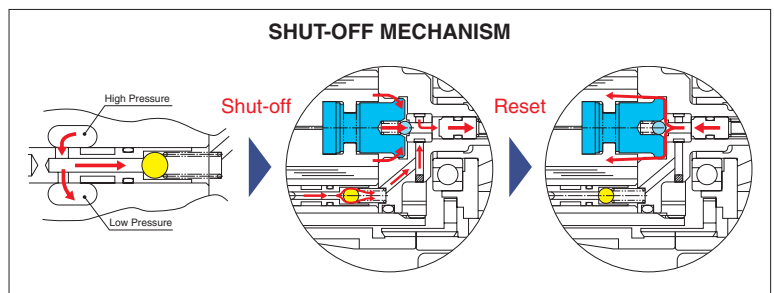
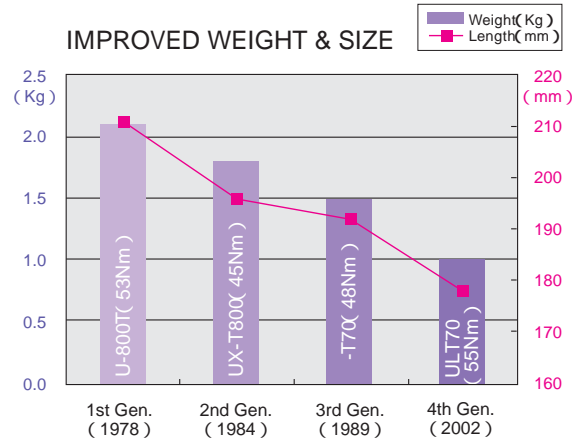
| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | | Overall Length less Socket or Bit (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|----------|---------------------------------|----------|--------------|-----------|------------|-----------|-----------------------------|--------|--------|--|---------|--|-----|--------------------------------------|-----|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.4~0.5MPa | | 0.5~0.6MPa | | 0.4MPa | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | | | | | | | | | | | | | |
| UAT40S | 5 | 13/64 | 4.5-8.0 | 3.3-5.9 | 4.5-8.0 | 3.3-5.9 | 3000 | 3200 | 3300 | 224 | 8 13/16 | 0.85 | 1.9 | 22.5 | 7/8 | 9.5 | 3/8 | 0.20 | 7.0 |
| UAT40SD | 5 | 13/64 | 4.5-8.0 | 3.3-5.9 | 4.5-8.0 | 3.3-5.9 | 3000 | 3200 | 3300 | 227 | 8 15/16 | 0.85 | 1.9 | 22.5 | 7/8 | 6.35 | 1/4 | 0.20 | 7.0 |
| UAT50S | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 3700 | 3900 | 224 | 8 13/16 | 0.85 | 1.9 | 22.5 | 7/8 | 9.5 | 3/8 | 0.25 | 8.8 |
| UAT50SD | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 3700 | 3900 | 227 | 8 15/16 | 0.85 | 1.9 | 22.5 | 7/8 | 6.35 | 1/4 | 0.25 | 8.8 |
| UAT60S | 8 | 5/16 | - | - | 15.0-32.0 | 11.1-23.7 | - | 5400 | 5700 | 229 | 9 | 0.87 | 1.9 | 22.5 | 7/8 | 9.5 | 3/8 | 0.30 | 10.5 |
| UAT60SD | 8 | 5/16 | - | - | 15.0-32.0 | 11.1-23.7 | - | 5400 | 5700 | 232 | 9 1/8 | 0.87 | 1.9 | 22.5 | 7/8 | 6.35 | 1/4 | 0.30 | 10.5 |
| UAT70S | 8-10 | 5/16-3/8 | - | - | 30.0-50.0 | 22.2-37.0 | - | 4400 | 4700 | 239 | 9 13/32 | 0.95 | 2.1 | 23.5 | 7/8 | 9.5 | 3/8 | 0.35 | 12.3 |
| UAT50SL | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 3800 | 4000 | - | 224 | 8 13/16 | 0.85 | 1.9 | 22.5 | 7/8 | 9.5 | 3/8 | 0.20 | 7.0 |
| UAT50SDL | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 3800 | 4000 | - | 227 | 8 15/16 | 0.85 | 1.9 | 22.5 | 7/8 | 6.35 | 1/4 | 0.20 | 7.0 |
| UAT60SL | 8 | 5/16 | 13.0-28.0 | 9.6-20.7 | - | - | 5300 | 5600 | - | 229 | 9 | 0.87 | 1.9 | 22.5 | 7/8 | 9.5 | 3/8 | 0.25 | 8.8 |
| UAT60SDL | 8 | 5/16 | 13.0-28.0 | 9.6-20.7 | - | - | 5300 | 5600 | - | 232 | 9 1/8 | 0.87 | 1.9 | 22.5 | 7/8 | 6.35 | 1/4 | 0.25 | 8.8 |
| UAT70SL | 8-10 | 5/16-3/8 | 25.0-45.0 | 18.5-33.3 | - | - | 4400 | 4700 | - | 239 | 9 13/32 | 0.95 | 2.1 | 23.5 | 7/8 | 9.5 | 3/8 | 0.27 | 9.5 |

Air Inlet Thread : N.P.T. 1/4"

Air Hose Size : 10x6.5x5m for UAT40S series – UAT50S series
12x8.0x5m for UAT60S series – UAT70S series

ULT SERIES OIL-PULSE TOOLS (SHUT-OFF TYPE)

Since started the production of Oil-Pulse Tools about 30 years ago, we have been continuously developing advanced mechanisms. Featured with unique Air/Hydraulic mechanism, **URYU Oil-Pulse Tools** have now come to the fourth generation "**ULT Ultimate Series**" passing through the first generation "**U Single-Blade Series**", the second "**UX Two-Blade Series**" and the third "**ALPHA Double-Chamber Series**". ULT Ultimate Fastening Tools achieve tremendous light weight & short size in addition to numerous features and benefits to raise your productivity.



1. Improvement in Torque Accuracy

Newly adopted Check Valve (PAT.P) stabilizes the current of oil. By stabilizing the oil current, the shut-off valve can sense with accuracy the small volume of high-pressure oil from the relief valve section during operation and shuts the tool off as soon as it has reached the target torque.

2. Workable at Low Air Pressure

We have added a Reset Spring (PAT) to help the operation rod return back to the original position without fail every time. Therefore, the operation rod can always sense more accurately the load on the shut-off valve and shuts the tool off even when operated at lower air pressure.

3. Room to expand

The new Accumulator works as a surge drum against the sudden rise of oil pressure. And when the oil temperature rises during consecutive fastening, the accumulator will take in the expanded oil volume and keep the same pulse condition.

4. High Speed Fastening

Newly adopted Roller Blades (Driving Blade with Roller Pin) reduce the friction inside the pulse unit and improve the energy efficiency. They also create less frictional wear of driving blades, which will reduce maintenance costs. Furthermore, they smooth the pulse blows and shorten the fastening time.

5. Increased Durability

Our original unique sealing, SU-Ring (PAT) extends the maintenance interval than the conventional O-Ring. Compared with our conventional pulse wrenches, the life cycle becomes increased by 60% or more with no leakage.

6. Improvement in Energy Efficiency

For the high-powered dual chamber motor that minimized torque ripples, we employed 9 pcs. of specially-coated blades. The special coating on the blades creates a better seal in the cylinder, helping to reduce the weight of the motor and increasing the energy efficiency.

7. Standard Handgrip & Body Protector

In addition to the oil pulse mechanism offering low noise, low vibration and small reaction, the comfortable handgrip lightens the burden for operators. Taking the environmental issue into consideration, the protective full-cover jacket is equipped as standard instead of painting.

8. Feather-Touch Throttle Trigger

Feather-touch trigger mechanism (PAT) with interchangeable direction lever lightens the load imposed on the operator's finger by at least 50%. Non-step valve is adopted for smooth speed adjustment. Stationary to full speed is proportional to the throttle stroke. Therefore, ULT series tools make it easier on run down and final tightening.

ULT SERIES OIL-PULSE TOOLS (SHUT-OFF TYPE)



(Standard Type)



(Low Air Pressure Type)



(D Type)

BOLT & NUT SETTERS

SPECIFICATIONS

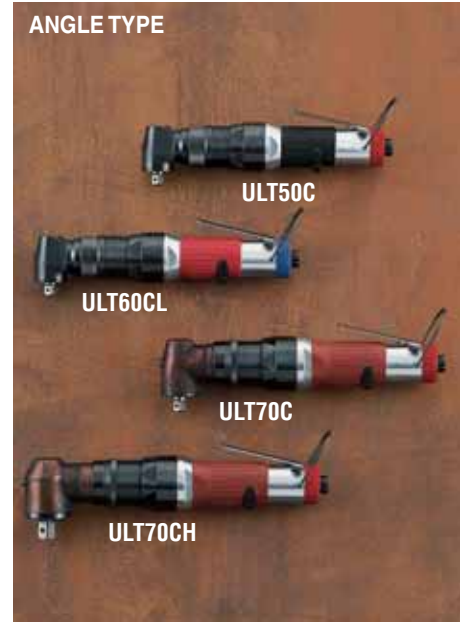
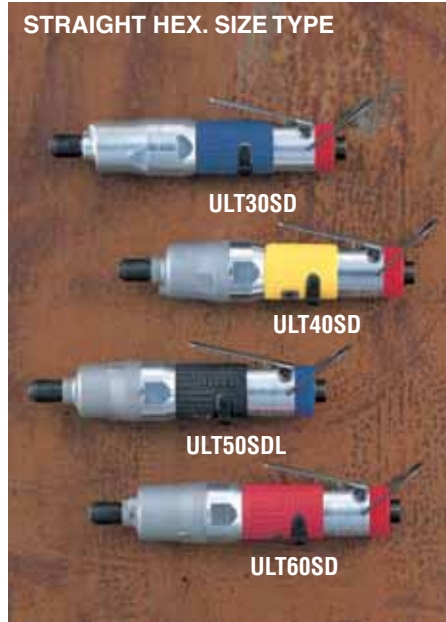
Recommended Air Pressure: 0.4MPa(57psi)~0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length less Socket or Bit (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|---------|---------------------------------|------------|--------------|------------|------------|-------------|--------------------------------|--------|--|----------|--|------|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.4~0.5MPa | | 0.5~0.6MPa | | 0.4MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | | | | | | | | | | | | |
| ULT30D | 4-5 | No.8-No.10 | 2.5-5.5 | 1.9-4.1 | 2.5-5.5 | 1.9-4.1 | 3300 | 3700 | 163 | 6 27/64 | 0.88 | 1.9 | 21.5 | 27/32 | 6.35 | 1/4 | 0.20 | 7.0 |
| ULT40 | 5 | No.10 | 4.5-8.0 | 3.3-5.9 | 4.5-8.0 | 3.3-5.9 | 3200 | 3600 | 160 | 6 19/64 | 0.92 | 2.0 | 22.5 | 57/64 | 9.5 | 3/8 | 0.20 | 7.0 |
| ULT40D | 5 | No.10 | 4.5-8.0 | 3.3-5.9 | 4.5-8.0 | 3.3-5.9 | 3200 | 3600 | 163 | 6 27/64 | 0.92 | 2.0 | 22.5 | 57/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| ULT50 | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 4400 | 160 | 6 19/64 | 0.92 | 2.0 | 22.5 | 57/64 | 9.5 | 3/8 | 0.25 | 8.8 |
| ULT50D | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 4400 | 163 | 6 27/64 | 0.92 | 2.0 | 22.5 | 57/64 | 6.35 | 1/4 | 0.25 | 8.8 |
| ULT60 | 8 | 5/16 | - | - | 15-32 | 11.1-23.7 | - | 6700 | 172 | 6 49/64 | 0.95 | 2.1 | 22.5 | 57/64 | 9.5 | 3/8 | 0.35 | 12.3 |
| ULT60D | 8 | 5/16 | - | - | 15-32 | 11.1-23.7 | - | 6700 | 175 | 6 57/64 | 0.95 | 2.1 | 22.5 | 57/64 | 6.35 | 1/4 | 0.35 | 12.3 |
| ULT70 | 8-10 | 5/16-3/8 | - | - | 30-55 | 22.2-40.7 | - | 6000 | 178 | 7 1/64 | 1.05 | 2.3 | 23.5 | 59/64 | 9.5 | 3/8 | 0.40 | 14.0 |
| ULT80 | 10-12 | 3/8-1/2 | - | - | 45-63 | 33.3-46.6 | - | 5600 | 184 | 7 1/4 | 1.25 | 2.75 | 26.0 | 1 1/32 | 9.5 | 3/8 | 0.48 | 16.8 |
| ULT90 | 10-12 | 3/8-1/2 | - | - | 50-85 | 37.0-62.9 | - | 5700 | 190 | 7 31/64 | 1.45 | 3.2 | 27.0 | 1 1/16 | 12.7 | 1/2 | 0.53 | 18.6 |
| ULT100 | 12 | 1/2 | - | - | 70-130 | 51.8-96.2 | - | 5200 | 197 | 7 3/4 | 1.70 | 3.7 | 29.5 | 1 5/32 | 12.7 | 1/2 | 0.55 | 19.3 |
| ULT130 | 14 | 9/16 | - | - | 110-150 | 81.4-111.0 | - | 4500 | 215 | 8 15/32 | 2.30 | 5.1 | 32.0 | 1 17/64 | 12.7 | 1/2 | 0.70 | 24.7 |
| ULT150 | 16 | 5/8 | - | - | 140-210 | 103.6-155.4 | - | 3900 | 240 | 9 29/64 | 2.90 | 6.4 | 36.0 | 1 27/64 | 19.0 | 3/4 | 0.70 | 24.7 |
| ULT180 | 16-18 | 5/8-45/64 | - | - | 160-250 | 118.4-185.0 | - | 3300 | 264 | 10 25/64 | 3.70 | 8.1 | 39.0 | 1 37/64 | 19.0 | 3/4 | 0.70 | 24.7 |
| ULT50L | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 4000 | - | 160 | 6 19/64 | 0.92 | 2.0 | 22.5 | 57/64 | 9.5 | 3/8 | 0.20 | 7.0 |
| ULT50DL | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 4000 | - | 163 | 6 27/64 | 0.92 | 2.0 | 22.5 | 57/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| ULT60L | 8 | 5/16 | 13-28 | 9.6-20.7 | - | - | 6000 | - | 172 | 6 49/64 | 0.95 | 2.1 | 22.5 | 57/64 | 9.5 | 3/8 | 0.25 | 8.8 |
| ULT60DL | 8 | 5/16 | 13-28 | 9.6-20.7 | - | - | 6000 | - | 175 | 6 57/64 | 0.95 | 2.1 | 22.5 | 57/64 | 6.35 | 1/4 | 0.25 | 8.8 |
| ULT70L | 8-10 | 5/16-3/8 | 25-48 | 18.5-35.5 | - | - | 5500 | - | 178 | 7 1/64 | 1.05 | 2.3 | 23.5 | 59/64 | 9.5 | 3/8 | 0.30 | 10.5 |
| ULT80L | 10-12 | 3/8-1/2 | 35-55 | 25.9-40.7 | - | - | 5000 | - | 184 | 7 1/4 | 1.25 | 2.75 | 26.0 | 1 1/32 | 9.5 | 3/8 | 0.40 | 14.0 |
| ULT90L | 10-12 | 3/8-1/2 | 45-75 | 33.3-55.5 | - | - | 5100 | - | 190 | 7 31/64 | 1.45 | 3.2 | 27.0 | 1 1/16 | 12.7 | 1/2 | 0.45 | 12.8 |
| ULT100L | 12 | 1/2 | 60-110 | 44.4-81.4 | - | - | 4800 | - | 197 | 7 3/4 | 1.70 | 3.7 | 29.5 | 1 5/32 | 12.7 | 1/2 | 0.48 | 16.8 |
| ULT130L | 12-14 | 1/2-9/16 | 80-125 | 59.2-92.5 | - | - | 3600 | - | 215 | 8 15/32 | 2.30 | 5.1 | 32.0 | 1 17/64 | 12.7 | 1/2 | 0.60 | 21.1 |
| ULT150L | 14-16 | 9/16-5/8 | 110-170 | 81.4-125.8 | - | - | 3500 | - | 240 | 9 29/64 | 2.90 | 6.4 | 36.0 | 1 27/64 | 19.0 | 3/4 | 0.50 | 17.5 |
| ULT180L | 16 | 9/16-5/8 | 130-210 | 96.2-155.4 | - | - | 3000 | - | 264 | 10 25/64 | 3.70 | 8.1 | 39.0 | 1 37/64 | 19.0 | 3/4 | 0.50 | 17.5 |

Air Inlet Size : ULT30D~150 NPT1/4" ULT180 NPT3/8"

Air Hose Size : 10mm×6.5mm×5m for ULT30-50(L) 12mm×8.0mm×5m for ULT60(L)-100 16mm×11.0mm×5m for ULT100L-180(L)

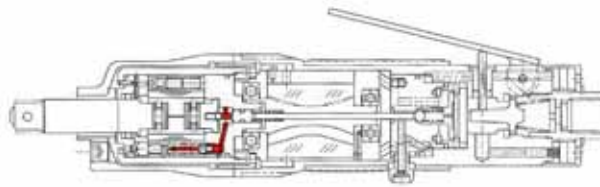
ULT SERIES OIL-PULSE TOOLS (SHUT-OFF TYPE)



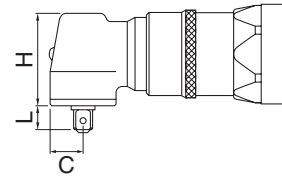
(Standard Type)



(Low Air Pressure Type)



Head Sizes



| MODEL | H | | C | | L | |
|---------|------|---------|----|-------|----|-------|
| | mm | in | mm | in | mm | in |
| ULT50C | 45.5 | 1 51/64 | 16 | 5/8 | 12 | 15/32 |
| ULT60C | 45.5 | 1 51/64 | 16 | 5/8 | 12 | 15/32 |
| ULT70C | 54.5 | 2 9/64 | 18 | 45/64 | 16 | 5/8 |
| ULT70CH | 56.5 | 2 15/64 | 22 | 7/8 | 20 | 25/32 |

SPECIFICATIONS

Recommended Air Pressure: 0.4MPa(57psi)-0.6MPa(85psi)

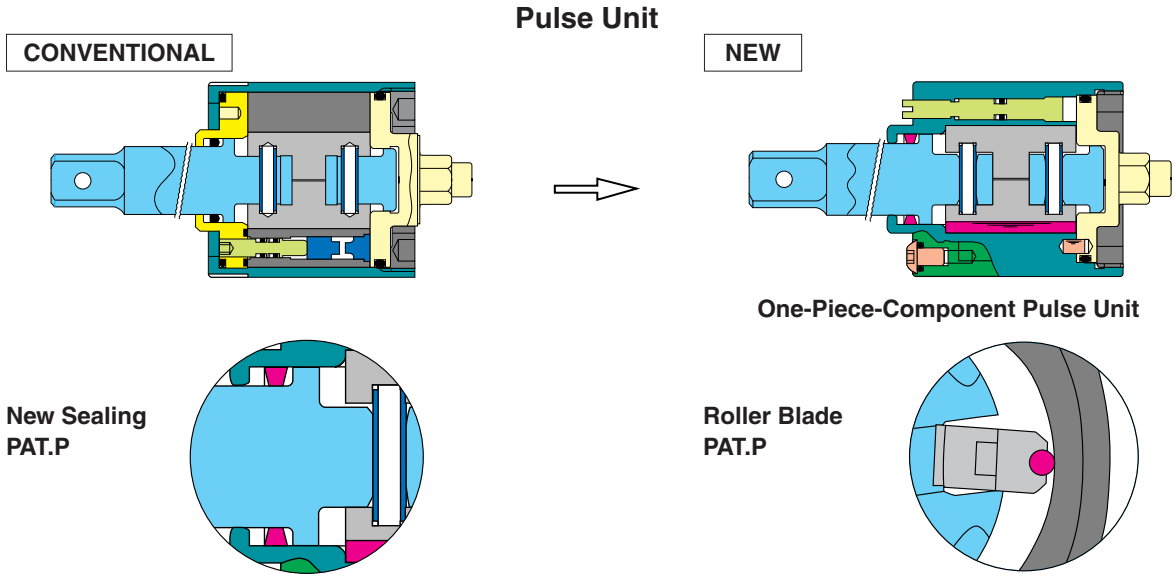
| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length less Socket or Bit (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|----------|---------------------------------|------------|--------------|-----------|------------|-----------|--------------------------------|--------|--|----------|--|-----|--------------------------------------|--------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.4~0.5MPa | | 0.5~0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.4MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| ULT30SD | 4-5 | No.8-No.10 | 2.5-5.5 | 1.9-4.1 | 2.5-5.5 | 1.9-4.1 | 3300 | 3700 | 221 | 8 45/64 | 0.75 | 1.6 | 21.5 | 27/32 | 6.35 | 1/4 | 0.20 | 7.0 |
| ULT40S | 5 | No.10 | 4.5-8.0 | 3.3-5.9 | 4.5-8.0 | 3.3-5.9 | 3200 | 3600 | 218 | 8 19/52 | 0.83 | 1.8 | 22.5 | 57/64 | 9.5 | 3/8 | 0.20 | 7.0 |
| ULT40SD | 5 | No.10 | 4.5-8.0 | 3.3-5.9 | 4.5-8.0 | 3.3-5.9 | 3200 | 3600 | 221 | 8 11/16 | 0.83 | 1.8 | 22.5 | 57/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| ULT50S | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 4700 | 218 | 8 19/52 | 0.83 | 1.8 | 22.5 | 57/64 | 9.5 | 3/8 | 0.25 | 8.8 |
| ULT50SD | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 4700 | 221 | 8 11/16 | 0.83 | 1.8 | 22.5 | 57/64 | 6.35 | 1/4 | 0.25 | 8.8 |
| ULT60S | 8 | 5/16 | - | - | 15-32 | 11.1-23.7 | - | 5400 | 229 | 9 1/64 | 0.87 | 1.9 | 22.5 | 57/64 | 9.5 | 3/8 | 0.30 | 10.5 |
| ULT60SD | 8 | 5/16 | - | - | 15-32 | 11.1-23.7 | - | 5400 | 232 | 9 9/64 | 0.87 | 1.9 | 22.5 | 57/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| ULT70S | 8-10 | 5/16-3/8 | - | - | 30-50 | 22.2-37.0 | - | 4700 | 239 | 9 13/32 | 0.95 | 2.1 | 23.5 | 59/64 | 9.5 | 3/8 | 0.35 | 12.3 |
| ULT50SL | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 4500 | - | 218 | 8 19/52 | 0.83 | 1.8 | 22.5 | 57/64 | 9.5 | 3/8 | 0.20 | 7.0 |
| ULT50SDL | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 4500 | - | 221 | 8 11/16 | 0.83 | 1.8 | 22.5 | 57/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| ULT60SL | 8 | 5/16 | 13-28 | 9.6-20.7 | - | - | 5000 | - | 229 | 9 1/64 | 0.87 | 1.9 | 22.5 | 57/64 | 9.5 | 3/8 | 0.25 | 8.8 |
| ULT60SDL | 8 | 5/16 | 13-28 | 9.6-20.7 | - | - | 5000 | - | 232 | 9 9/64 | 0.87 | 1.9 | 22.5 | 57/64 | 6.35 | 1/4 | 0.25 | 8.8 |
| ULT70SL | 8-10 | 5/16-3/8 | 25-45 | 18.5-33.3 | - | - | 4400 | - | 239 | 9 13/32 | 0.95 | 2.1 | 23.5 | 59/64 | 9.5 | 3/8 | 0.27 | 9.5 |
| ULT50C | 6-8 | 1/4-5/16 | - | - | 7.0-15.5 | 5.2-11.5 | - | 4500 | 250 | 9 27/32 | 1.35 | 3.0 | 24.5 | 31/32 | 9.5 | 3/8 | 0.25 | 8.6 |
| ULT60C | 8 | 5/16 | - | - | 13-28 | 9.6-20.7 | - | 5200 | 261 | 10 9/32 | 1.45 | 3.2 | 24.5 | 31/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| ULT70C | 8 | 5/16 | - | - | 20-35 | 14.8-25.9 | - | 4400 | 275 | 10 53/64 | 1.65 | 3.6 | 26.5 | 1 3/64 | 9.5 | 3/8 | 0.35 | 12.3 |
| ULT70CH | 8-10 | 5/16-3/8 | - | - | 30-50 | 22.2-37.0 | - | 2500 | 290 | 11 27/64 | 1.85 | 4.1 | 26.5 | 1 3/64 | 12.7 | 1/2 | 0.35 | 12.3 |
| ULT50CL | 6-8 | 1/4-5/16 | 7.0-15.5 | 5.2-11.5 | - | - | 4500 | - | 250 | 9 27/32 | 1.35 | 3.0 | 24.5 | 31/32 | 9.5 | 3/8 | 0.20 | 7.0 |
| ULT60CL | 8 | 5/16 | 13-28 | 9.6-20.7 | - | - | 5200 | - | 261 | 10 9/32 | 1.45 | 3.2 | 24.5 | 31/32 | 9.5 | 3/8 | 0.25 | 8.6 |
| ULT70CL | 8 | 5/16 | 20-35 | 14.8-25.9 | - | - | 4300 | - | 275 | 10 53/64 | 1.65 | 3.6 | 26.5 | 1 3/64 | 9.5 | 3/8 | 0.27 | 9.5 |
| ULT70CHL | 8-10 | 5/16-3/8 | 30-50 | 22.2-37.0 | - | - | 2300 | - | 290 | 11 27/64 | 1.85 | 4.1 | 26.5 | 1 3/64 | 12.7 | 1/2 | 0.27 | 9.5 |

Air Inlet Size : NPT 1/4"

Air Hose Size : 10mm×6.5mm×5m for ULT30S ~ 50S, ULT40C ~ 50C(L) 12mm×8.0mm×5m for ULT60S ~ 70S, ULT60C ~ 70C(L) , and 70CH(L)

UL SERIES OIL-PULSE TOOLS

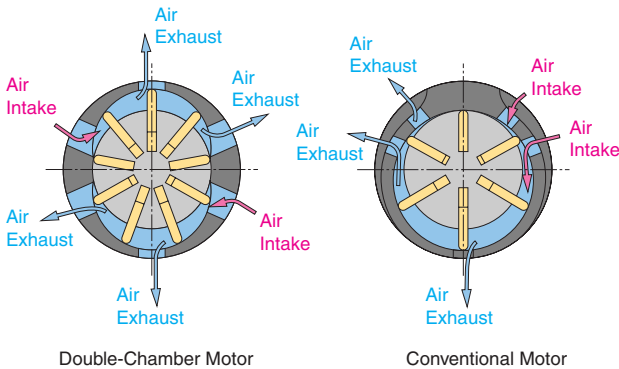
UL series has the same features as ULT series, such as intensified sealing and roller blade. Furthermore, the oil pulse unit is the "one-piece construction", in which liner casing, liner and front liner plate are all in one piece, to reduce the weight.



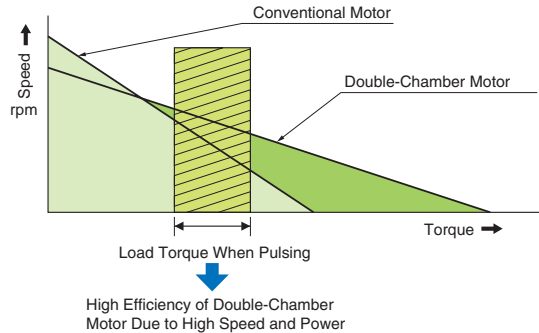
As a measure of the new sealing, a partition on the anvil and SU-Ring (PAT.P) are adopted. The partition walls off the direct high pressure from the liner front plate. And SU-Ring intensifies the gripping area of the liner front plate to avoid its rotation together with the anvil. It brings you a long durability.

Newly adopted Roller Blades (Driving Blade with Roller Pin) (PAT.P) reduce the friction inside the pulse unit and improve the energy efficiency. Roller Blades also reduce the frictional wear of driving blades, which helps you to save the maintenance cost of driving blades.

MOTOR COMPARISON CROSS SECTION

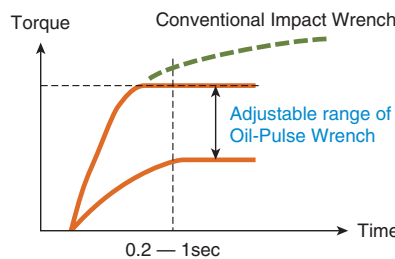
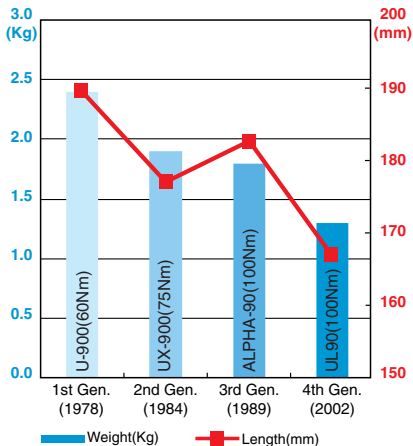


EFFICIENCY OF MOTOR UNDER LOAD



9-blade "Double-Chamber" motor creates super productivity on any joint rate. It provides efficiently slow free speed, compared with the same sized "Single-Chamber" motor. Bolt seating is performed very smoothly, and the torque spike caused by the spinning of the anvil is eliminated to the minimum level on the hard joint. Prevailing torque type joint is also overcome with the optimum cycle time by the effective motor power.

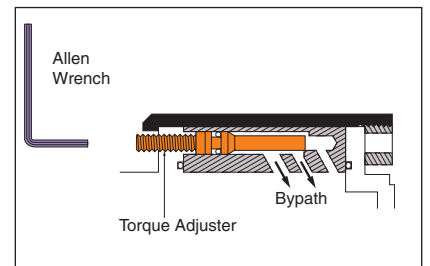
IMPROVED WEIGHT & SIZE



EASY TORQUE ADJUSTMENT

The torque output can be easily adjusted by turning Torque Adjuster through the plug hole or the anvil hole without dismantling the tool.

- Turn clockwise: Increase torque, decrease number of blows
- Turn anti-clockwise: Decrease torque, increase number of blows



Notice: For soft joint application choose one size up model of tool and adjust torque with more number of blows.

UL SERIES OIL-PULSE TOOLS (NON SHUT-OFF TYPE)



SPECIFICATIONS

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length Less Socket or Bit (Approx.) | | Weight less Socket or Bit (Approx.) | | From Center to Outside (Approx.) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|--------|---------------------------------|-----------|--------------|------------|---------|-------------|--------------------------------|--------|--|---------|--|-----|--|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UL30 | 5 | No.10 | 5.5-10.5 | 4.1-7.8 | 6-12 | 4.4-8.9 | 5400 | 5700 | 133 | 5 15/64 | 0.70 | 1.5 | 20.5 | 13/16 | 9.5 | 3/8 | 0.20 | 7.0 |
| UL30D | 5 | No.10 | 5.5-10.5 | 4.1-7.8 | 6-12 | 4.4-8.9 | 5400 | 5700 | 137 | 5 25/64 | 0.70 | 1.5 | 20.5 | 13/16 | 6.35 | 1/4 | 0.20 | 7.0 |
| UL40 | 5-6 | No.10-1/4 | 11-20 | 8.1-14.8 | 13-22 | 9.6-16.3 | 5800 | 6100 | 133 | 5 15/64 | 0.70 | 1.5 | 20.5 | 13/16 | 9.5 | 3/8 | 0.20 | 7.0 |
| UL40D | 5-6 | No.10-1/4 | 9-17 | 6.7-12.6 | 11-20 | 8.1-14.8 | 5800 | 6100 | 137 | 5 25/64 | 0.70 | 1.5 | 20.5 | 13/16 | 6.35 | 1/4 | 0.20 | 7.0 |
| UL50 | 6-8 | 1/4-5/16 | 20-32 | 14.8-23.7 | 22-35 | 16.3-25.9 | 6100 | 6400 | 140 | 5 33/64 | 0.77 | 1.7 | 22.0 | 55/64 | 9.5 | 3/8 | 0.30 | 10.5 |
| UL50D | 6-8 | 1/4-5/16 | 16-25 | 11.8-18.5 | 18-28 | 13.3-20.7 | 6100 | 6400 | 146 | 5 3/4 | 0.77 | 1.7 | 22.0 | 55/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| UL60 | 8 | 5/16 | 30-45 | 22.2-33.3 | 32-50 | 23.7-37.0 | 6700 | 7000 | 140 | 5 33/64 | 0.82 | 1.8 | 22.0 | 55/64 | 9.5 | 3/8 | 0.40 | 14.0 |
| UL60D | 8 | 5/16 | 20-32 | 14.8-23.7 | 22-35 | 16.3-25.9 | 6700 | 7000 | 143 | 5 5/8 | 0.82 | 1.8 | 22.0 | 55/64 | 6.35 | 1/4 | 0.40 | 14.0 |
| UL70 | 8-10 | 5/16-3/8 | 36-60 | 26.6-44.4 | 40-65 | 29.6-48.1 | 5400 | 5700 | 153 | 6 1/32 | 0.95 | 2.1 | 23.0 | 29/32 | 9.5 | 3/8 | 0.45 | 15.8 |
| *UL80 | 10-12 | 3/8-1/2 | 40-55 | 29.6-40.7 | 45-70 | 33.3-50.0 | 5600 | 5900 | 162 | 6 3/8 | 1.15 | 2.5 | 26.0 | 1 1/32 | 9.5 | 3/8 | 0.48 | 16.8 |
| UL90 | 10-12 | 3/8-1/2 | 55-90 | 40.7-66.6 | 60-100 | 44.4-74.0 | 5700 | 6000 | 170 | 6 11/16 | 1.30 | 2.9 | 27.0 | 1 1/16 | 12.7 | 1/2 | 0.53 | 18.6 |
| UL100 | 12 | 1/2 | 72-120 | 53.3-88.8 | 80-130 | 59.2-96.2 | 5100 | 5400 | 177 | 6 31/32 | 1.66 | 3.7 | 29.5 | 1 5/32 | 12.7 | 1/2 | 0.58 | 20.3 |
| UL130 | 14 | 9/16 | 90-145 | 66.6-107.3 | 100-160 | 74.0-118.4 | 4200 | 4400 | 197 | 7 3/4 | 2.30 | 5.1 | 32.0 | 1 17/64 | 12.7 | 1/2 | 0.65 | 22.7 |
| UL150 | 16 | 5/8 | 135-210 | 99.6-154.7 | 150-230 | 109.9-169.6 | 3500 | 3800 | 213 | 8 25/64 | 3.00 | 6.6 | 36.0 | 1 27/64 | 19.0 | 3/4 | 0.70 | 24.7 |
| UL30S | 5 | No.10 | 5.5-10.5 | 4.1-7.8 | 6-12 | 4.4-8.9 | 4700 | 5000 | 205 | 8 5/64 | 0.62 | 1.4 | 20.5 | 51/64 | 9.5 | 3/8 | 0.23 | 8.1 |
| UL30SD | 5 | No.10 | 5.5-10.5 | 4.1-7.8 | 6-12 | 4.4-8.9 | 4700 | 5000 | 209 | 8 15/64 | 0.62 | 1.4 | 20.5 | 51/64 | 6.35 | 1/4 | 0.23 | 8.1 |
| UL40S | 5-6 | No.10-1/4 | 11-20 | 8.1-14.8 | 11-22 | 8.1-16.3 | 4700 | 5000 | 205 | 8 5/64 | 0.62 | 1.4 | 20.5 | 51/64 | 9.5 | 3/8 | 0.23 | 8.1 |
| UL40SD | 5-6 | No.10-1/4 | 9-17 | 6.7-12.6 | 9-20 | 6.7-14.8 | 4700 | 5000 | 209 | 8 15/64 | 0.62 | 1.4 | 20.5 | 51/64 | 6.35 | 1/4 | 0.23 | 8.1 |
| UL50S | 6-8 | 1/4-5/16 | 20-32 | 14.8-23.7 | 22-35 | 16.3-25.9 | 6100 | 6400 | 208 | 8 3/16 | 0.74 | 1.6 | 22.0 | 7/8 | 9.5 | 3/8 | 0.35 | 12.3 |
| UL50SD | 6-8 | 1/4-5/16 | 16-25 | 11.8-18.5 | 18-28 | 13.3-20.7 | 6100 | 6400 | 214 | 8 27/64 | 0.74 | 1.6 | 22.0 | 7/8 | 6.35 | 1/4 | 0.35 | 12.3 |
| UL60S | 8 | 5/16 | 30-45 | 22.2-33.3 | 32-50 | 23.7-37.0 | 6400 | 6700 | 209 | 8 15/64 | 0.77 | 1.7 | 22.0 | 7/8 | 9.5 | 3/8 | 0.45 | 15.8 |
| UL60SD | 8 | 5/16 | 20-32 | 14.8-23.7 | 22-35 | 16.3-25.9 | 6400 | 6700 | 212 | 8 11/32 | 0.77 | 1.7 | 22.0 | 7/8 | 6.35 | 1/4 | 0.45 | 15.8 |
| UL70S | 8-10 | 5/16-3/8 | 36-60 | 26.6-44.4 | 36-60 | 26.6-44.4 | 5100 | 5400 | 223 | 8 25/32 | 0.87 | 1.9 | 23.5 | 59/64 | 9.5 | 3/8 | 0.40 | 14 |

Air Inlet Size : NPT1/4"

Air Hose Size : 10mmx6.5mmx5m for UL30-50 12mmx8.0mmx5m for UL60-150

Air Hose Size : 10mmx6.5mmx5m for UL30S-50S 12mmx8.0mmx5m for UL60S-70S

*Please refrain from using UL80 at around max. torque as it is developed to aim at torque output between UL70 & UL90.

FASTENING COUNTER WITH POKA-YOKE UTM-1500 SERIES

URYU fastening counter **UTM-1500 series** count down the number of bolts or nuts precisely by detecting the pressure fluctuation generated inside the air motor section in usage of the air tool. If all the required number of bolts or nuts is not fastened up accidentally, this fastening counter system controller informs you by both the display and the buzzer to ensure the perfect fastening.



UTM-1500(PS): Pressure Sensor Incorporated type
By connecting the TM signal hose from a tool to the coupler at the back of the controller, the pressure sensor incorporated in the controller converts the air pressure signal into the electric signal.



UTM-1500(CN): Connector Incorporated type
By connecting the pressure sensor (external pressure sensor assembly) attached to a tool to the connector at the back of the controller, the controller supplies the power and loads the analog signal.

Features

- Applicable to the pneumatic tools such as the oil pulse wrenches, impact wrenches etc. (Tool should be modified into the TM type because the controller basically detects the back pressure.)
- Counting down the fastening number, error proofing by the display and buzzer.
- Easy parameter setup of the controller by front key switches followed to the front panel LCD. (It is possible to set up the parameters through a personal computer as well.)

Functions

- Easy setup for the pressure values by the automatic setup feature.
- Up to 1500 tightening time and judgement data points stored.
- Each buzzer volume level of fastening recognition, panel and NOK operation adjustable.
- Work select feature available for four different works with different numbers of fasteners.
- By equipping the external input/output terminal block (free format), inter lock with the line is possible.
- Parameters receivable/sendable, and wave data, memory data and the total numbers of fasteners receivable through PC. (Total numbers of pulse receivable in usage of the external pressure sensor assembly.)
- Measurement and display of the fastening time possible for the shut off tools.
- External pressure sensor assembly equipped for UTM-1500(CN) enables to count the pulse number so that the pulse number control becomes possible other than the fastening time control. (The pulse number cannot be detected sometimes depending on a tool or working conditions.)
- Tool maintenance determined by the total numbers of fasteners or pulse possible. (external pressure sensor assembly needed.)



| Model Name | Voltage & Frequency | Operating ambient temperature & humidity | Dimensions mm(in) | Weight Kg(lb) |
|---------------------|----------------------------|--|--|---------------|
| UTM-1500A/E (PS) | 115V / 230V 50Hz / 60Hz | 0 - 50 degree (no freeze) less 90%RH (no dewfall) | 200 X 210 X 100 (7 7/8 x 8 17/64 x 3 15/16) | 2.05 (4.51) |
| UTM-1500A/E (CN) | | | | 2.03 (4.47) |
| UTM-1500A/E (RA-PS) | 115V / 230V 50Hz / 60Hz | 0 - 50degree (no freeze) less 90%RH (no dewfall) | 280 X 220 X 420 (11 1/32 x 8 21/32 x 16 17/32) (c/w rack) | 6.45 (14.19) |
| UTM-1500A/E (RA-CN) | | | | 6.43 (14.15) |

* TM convertible model : Various kinds of tools can be converted into TM type. Please ask your local Uryu distributor for details.
UTM-1500A is the 115V use, while UTM-1500E is the 230V use.

FASTENING COUNTER WITH POKA-YOKE UTM-1500 SERIES (Option)

Tool Connection

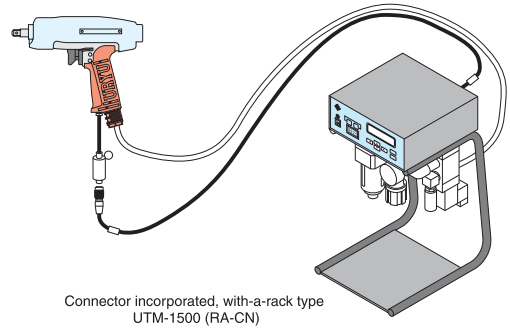
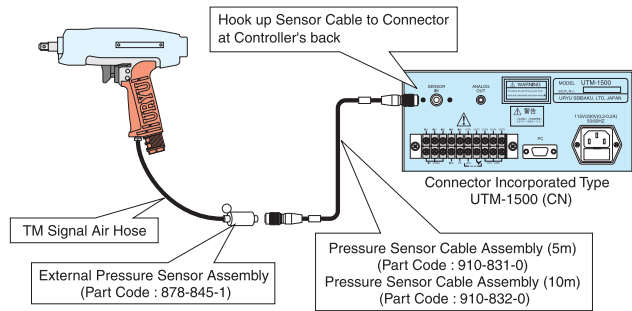
Shut-off Tool

UTM-1500(CN) & External Pressure Sensor Assembly

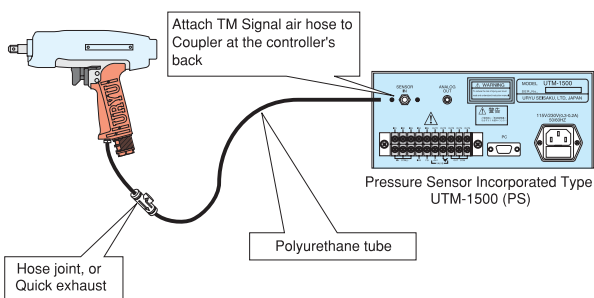
* Please install the external pressure sensor assembly to a tool as close as possible. In use of the pulse number count, external pressure sensor assembly should be attached near to a tool handle.

UTM-1500(RA-CN) & External Pressure Sensor Assembly

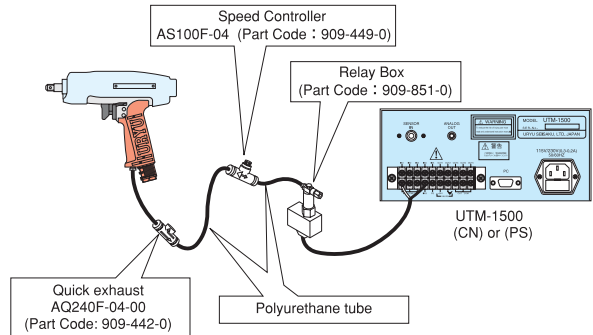
* Same wiring as in the case of UTM-1500(CN) & External Pressure Sensor Assembly (left figure)



UTM-1500 (PS)



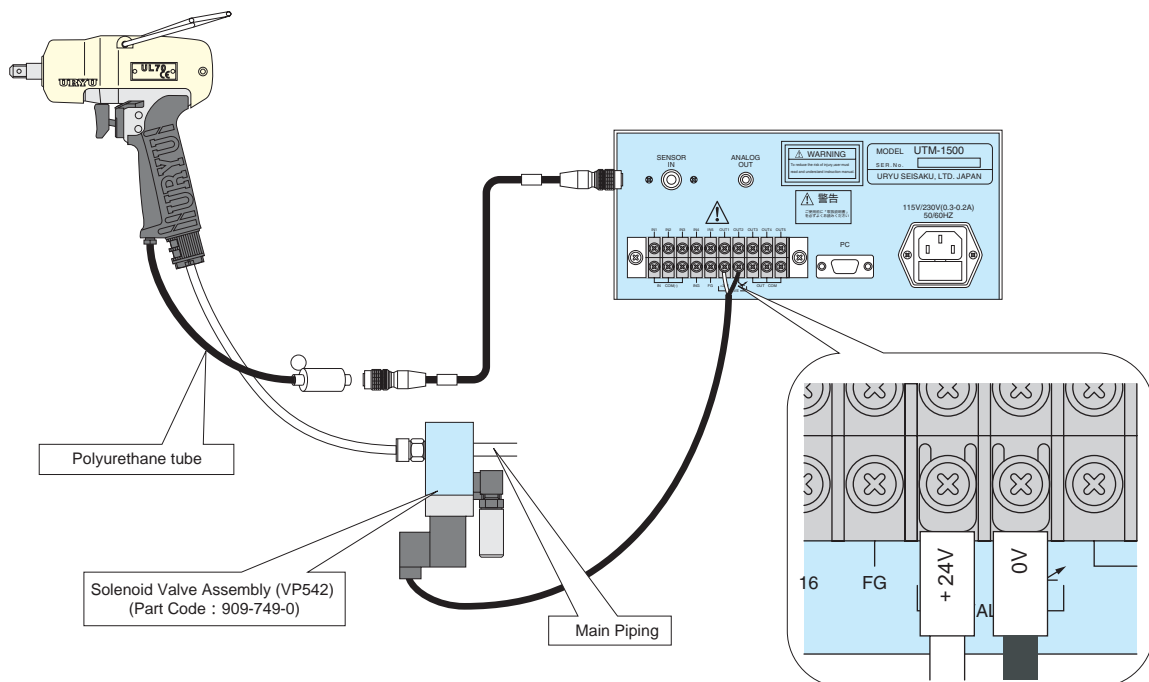
UTM-1500 (PS) or (CN) & Relay Box Assembly



Standard TM tool

UTM-1500(CN)

Solenoid valve is incorporated in the rack type, UTM-1500(RA-CN), so that you only need to connect a tool and controller.



UTM-1500(PS)

Referring to the above figure, please connect the TM signal hose (4) from a tool to the connector at the back of the controller.

ALPHA SERIES OIL-PULSE TOOLS



ALPHA SERIES (STANDARD TYPE)



ALPHA's 9-blade "Double-Chamber" motor creates super productivity on any joint rate. It provides efficiently slow free speed, compared with the same sized "Single-Chamber" motor. Bolt seating is performed very smoothly, and the torque spike caused by the spinning of the anvil is eliminated to the minimum level on the hard joint. Prevailing torque type joint is also overcome with the optimum cycle time by the effective motor power.

SPECIFICATIONS

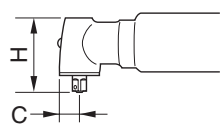
Recommended Air Pressure: 0.6 MPa (85 psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length Less Socket or Bit (Approx.) | | Weight less Socket or Bit (Approx.) | | From Center to Outside (Approx.) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|-----------|---------------------------------|-----|--------------|-------------|---------|-------------|--------------------------------|--------|--|---------|--|------|--|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| ALPHA-160 | 18 | 3/4 | 140-220 | 103.4-162.3 | 160-270 | 117.9-198.5 | 3500 | 3700 | 245 | 9 41/64 | 3.80 | 8.4 | 40.0 | 1 37/64 | 19.0 | 3/4 | 0.90 | 31.8 |
| ALPHA-180 | 18-20 | 3/4 | 250-320 | 183.8-235.3 | 270-350 | 198.5-257.4 | 3300 | 3500 | 250 | 9 27/32 | 4.70 | 10.3 | 42.0 | 1 21/32 | 19.0 | 3/4 | 0.95 | 33.6 |

Air Inlet Thread : NPT1/4" for ALPHA-130 & ALPHA-140 NPT3/8 for ALPHA-160 & ALPHA-180 Air Hose Size : 12.7mm (1/2") for ALPHA-180 9.5mm (3/8") for other models



Head Sizes



| MODEL | C | | H | |
|------------|------|-------|------|---------|
| | mm | in | mm | in |
| ALPHA-70C | 18.0 | 45/64 | 69.0 | 2 23/32 |
| ALPHA-70CH | 22.0 | 55/64 | 76.5 | 3 1/64 |

SPECIFICATIONS

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|------------|---------------------------------|----------|--------------|-----------|--------|-----------|--------------------------------|--------|---------------------------|----------|--|-----|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| ALPHA-70C | 8-10 | 5/16-3/8 | 25-40 | 18.0-28.9 | 28-45 | 20.2-32.5 | 6000 | 6300 | 266 | 10 15/32 | 1.77 | 3.9 | 69.0* | 2 23/32 | 9.5 | 3/8 | 0.45 | 15.8 |
| ALPHA-70CH | 10-12 | 3/8-1/2 | 45-68 | 32.5-49.9 | 50-76 | 36.1-56.0 | 3400 | 3600 | 282 | 11 7/64 | 2.00 | 4.4 | 76.5* | 3 1/64 | 12.7 | 1/2 | 0.45 | 15.8 |

Air Inlet Thread : NPT1/4" * Angle Height Air Hose Size : 9.5mm (3/8") for ALPHA-70C & ALPHA-70CH

GEARED HEAD SERIES OIL-PULSE TOOLS

These models are specially designed for user's request giving priority to productivity or workability.



SPECIFICATIONS

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Hex. Size of Gear Socket | Average Air Consumption | |
|-----------------|---------------------------------|------|--------------|-----------|--------|-----------|--------------------------------|--------|---------------------------|----------|--|-----|--------------------------------------|-----|--------------------------------|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | m ³ /min | ft ³ /min |
| UL60(20042T8H) | 8 | 5/16 | 20-28 | 14.8-20.7 | 22-30 | 16.2-22.2 | 2850 | 3000 | 300 | 11 13/16 | 1.60 | 3.5 | 16.0 | 5/8 | 12.0 | 0.40 | 14.0 |
| UL60(20042T7H) | 8 | 5/16 | 20-28 | 14.8-20.7 | 22-30 | 16.2-22.2 | 2850 | 3000 | 296 | 11 21/32 | 1.60 | 3.5 | 16.0 | 5/8 | 12.0 | 0.40 | 14.0 |
| UL60S(20063T6H) | 8 | 5/16 | 20-28 | 14.8-20.7 | 22-30 | 16.2-22.2 | 2850 | 3000 | 342 | 13 15/32 | 1.50 | 3.3 | 16.0 | 5/8 | 12.0 | 0.45 | 15.8 |
| UL60S(20063T8H) | 8 | 5/16 | 20-28 | 14.8-20.7 | 22-30 | 16.2-22.2 | 2850 | 3000 | 341 | 13 27/64 | 1.50 | 3.3 | 16.0 | 5/8 | 12.0 | 0.45 | 15.8 |

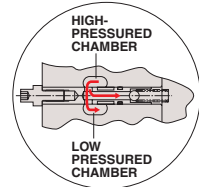
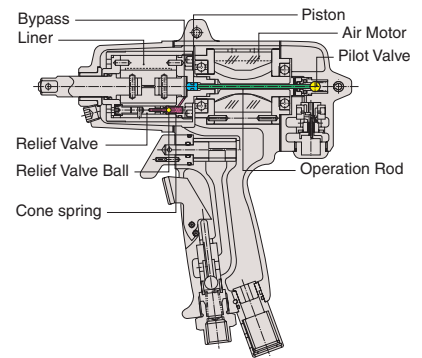
Air Inlet Thread : NPT1/4" Air Hose Size : 9.5mm (3/8")

UX-T SERIES OIL-PULSE TOOLS (SHUT-OFF TYPE)

PISTOL / STRAIGHT TYPE



SHUT-OFF MECHANISM



When the increase in oil pressure in the pulse unit overcomes the tension of Relief Valve Spring, the oil in the high-pressure chamber displaces the Relief Valve Ball and travels to the Piston via bypass.

The Piston displaced by oil moves the Operating Rod, which causes the Shut-off Valve Ball to be displaced via Pilot Valve. Immediately after the Pilot Valve opens, the Shut-off Valve gets closed and the tool shuts off.

SPECIFICATIONS

Recommended Air Pressure:0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | Free Speed (about) rpm | | Overall Length less Socket or Bit (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|------------|------------------------------|----------|--------------|---------|------------------------|--------|---|----------|-----------------------------------|-------|--------------------------------|---------|------------------------|-----|-------------------------|---------|
| | mm | in | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m³/min | ft³/min |
| UX-T700L | 6-8 | 1/4-5/16 | 13-26 | 10-19 | 7250 | 7500 | 187 | 7 23/64 | 1.46 | 3.21 | 25.5 | 1 | 9.5 | 3/8 | 0.30 | 10.5 |
| UX-T700 | 8 | 5/16 | 20-38 | 15-28 | 7250 | 7500 | 187 | 7 23/64 | 1.46 | 3.21 | 25.5 | 1 | 9.5 | 3/8 | 0.30 | 10.5 |
| UX-T800 | 8-10 | 5/16-3/8 | 30-45 | 22-33 | 8000 | 8300 | 196 | 7 23/32 | 1.80 | 3.96 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.35 | 12.3 |
| UX-T900 | 8-10 | 5/16-3/8 | 35-70 | 25-50 | 6800 | 7000 | 202 | 7 61/64 | 2.00 | 4.40 | 30.0 | 1 3/16 | 12.7 | 1/2 | 0.45 | 16.0 |
| UX-T1000 | 10-12 | 3/8-1/2 | 50-90 | 36-65 | 6550 | 6800 | 207 | 8 5/32 | 2.35 | 5.17 | 33.0 | 1 19/64 | 12.7 | 1/2 | 0.50 | 17.6 |
| UX-T1300 | 12-14 | 1/2-9/16 | 70-130 | 50-94 | 6000 | 6200 | 225 | 8 55/64 | 2.80 | 6.16 | 36.0 | 1 27/64 | 12.7 | 1/2 | 0.55 | 19.4 |
| UX-T1400 | 14 | 9/16 | 100-160 | 75-115 | 4900 | 5300 | 245 | 9 41/64 | 3.40 | 7.48 | 40.0 | 1 37/64 | 12.7 | 1/2 | 0.60 | 21.1 |
| UX-T1620 | 14-16 | 9/16-5/8 | 120-210 | 87-150 | 4800 | 5000 | 260 | 10 15/64 | 3.70 | 8.14 | 40.0 | 1 37/64 | 19.0 | 3/4 | 0.65 | 22.9 |
| UXR-T1820 | 16-18 | 5/8-3/4 | 150-250 | 110-180 | 4200 | 4400 | 270 | 10 5/8 | 4.50 | 9.90 | 42.0 | 1 21/32 | 19.0 | 3/4 | 0.70 | 24.7 |
| UXR-T2000 | 18-20 | 3/4 | 200-400 | 150-290 | 3800 | 4000 | 303 | 11 59/64 | 6.80 | 14.96 | 47.0 | 1 27/32 | 19.0 | 3/4 | 0.95 | 34.0 |
| UXR-T2400S | 24 | 7/8 | 360-650 | 260-470 | 3400 | 3600 | 444 | 17 31/64 | 12.00 | 26.46 | 61.5 | 2 27/64 | 25.4 | 1 | 1.00 | 35.3 |
| UXR-T3000S | 30 | 1 1/8 | 450-850 | 330-620 | 4200 | 4400 | 477 | 18 25/32 | 14.50 | 31.97 | 62.0 | 2 7/16 | 25.4 | 1 | 1.05 | 37.1 |

Air Inlet Thread : NPT1/4" for UX-T700L-UX-T1620 NPT3/8" for UXR-T1820-UXR-T2000 NPT1/2" for UXR-T2400S & UXR-T3000S
 Air Hose Size : 9.5mm (3/8") for UX-T700L-UX-T1620 12.7mm (1/2") for UXR-T1820-UXR-T3000S
 Inside Trigger is available for UXR-T2400S & UXR-T3000S

SPECIFICATIONS

Recommended Air Pressure:0.4MPa(57psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | Free Speed (about) rpm | | Overall Length less Socket or Bit (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|------------|------------------------------|----------|--------------|-----------|------------------------|--------|---|----------|-----------------------------------|-------|--------------------------------|---------|------------------------|-----|-------------------------|---------|
| | mm | in | Nm | ft-lbs | 0.4MPa | 0.5MPa | mm | in | kg | lb | mm | in | mm | in | m³/min | ft³/min |
| UX-TL700 | 6-8 | 1/4-5/16 | 15-28 | 11.1-20.2 | 7500 | 7750 | 187 | 7 23/64 | 1.46 | 3.21 | 25.5 | 1 | 9.5 | 3/8 | 0.20 | 7.0 |
| UX-TL800 | 8 | 5/16 | 20-32 | 14.4-23.1 | 7600 | 8000 | 196 | 7 23/32 | 1.80 | 3.96 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.25 | 8.8 |
| UX-TL900 | 8-10 | 5/16-3/8 | 30-48 | 22-34.7 | 7000 | 7200 | 202 | 7 61/64 | 2.00 | 4.40 | 30.0 | 1 3/16 | 12.7 | 1/2 | 0.30 | 10.5 |
| UX-TL1000 | 8-10 | 5/16-3/8 | 30-63 | 22-46.2 | 6300 | 6550 | 207 | 8 5/32 | 2.35 | 5.17 | 33.0 | 1 19/64 | 12.7 | 1/2 | 0.35 | 12.3 |
| UX-TL1300 | 10-12 | 3/8-1/2 | 50-95 | 36-70 | 5700 | 6000 | 225 | 8 55/64 | 2.80 | 6.16 | 36.0 | 1 27/64 | 12.7 | 1/2 | 0.40 | 14.1 |
| UX-TL1400 | 12-14 | 1/2-9/16 | 65-105 | 47.7-77.5 | 4500 | 4900 | 245 | 9 41/64 | 3.40 | 7.48 | 40.0 | 1 37/64 | 12.7 | 1/2 | 0.45 | 16.0 |
| UX-TL1620 | 14 | 9/16 | 110-170 | 81-123 | 4500 | 4800 | 260 | 10 15/64 | 3.70 | 8.14 | 40.0 | 1 37/64 | 19.0 | 3/4 | 0.50 | 17.6 |
| UXR-TL1820 | 14-16 | 9/16-5/8 | 120-200 | 87-150 | 4400 | 4600 | 270 | 10 5/8 | 4.50 | 9.90 | 42.0 | 1 21/32 | 19.0 | 3/4 | 0.50 | 17.6 |
| UXR-TL2000 | 16-18 | 5/8-3/4 | 170-280 | 123-206 | 3900 | 4100 | 303 | 11 59/64 | 6.80 | 14.96 | 47.0 | 1 27/32 | 19.0 | 3/4 | 0.70 | 24.7 |

Air Inlet Thread : NPT1/4" for UX-TL700-UX-TL1620 NPT3/8" for UXR-TL1820-UXR-TL2000
 Air Hose Size : 9.5mm (1/4") for UX-TL700-UX-TL1620 12.7mm (1/2") for UXR-TL1820 & UXR-TL2000

U·UX·UXR SERIES OIL-PULSE TOOLS

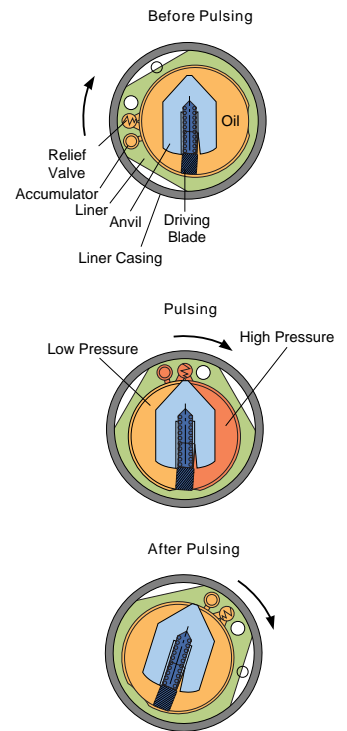
PISTOL TYPE



U-WRENCH

The "U-WRENCH" is a combination tool of a standard air motor and a hydraulic pulse unit utilizing one-blade impulsing mechanism.

The high speed rotation of the air motor increases the oil pressure quickly in the front pulse unit to deliver repeated hydraulic pulse powers to the anvil for bolt and nut fastening and loosening job.



SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|----------|---------------------------------|------------|--------------|-------------|---------|---------|--------------------------------|--------|---------------------------|---------|--|------|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| U-350D | 3-4 | No.5-No.8 | 3.0-5.0 | 2.2-3.7 | 3.5-5.8 | 2.5-4.2 | 10000 | 10500 | 154 | 6 1/16 | 0.77 | 1.7 | 22.0 | 7/8 | 6.35 | 1/4 | 0.15 | 5.3 |
| U-410 | 4-5 | No.8-No.10 | 6.0-8.5 | 4.4-6.3 | 7-10 | 5.0-7.2 | 10000 | 10500 | 177 | 6 31/32 | 1.00 | 2.2 | 22.0 | 7/8 | 9.5 | 3/8 | 0.15 | 5.3 |
| U-410D | 4-5 | No.8-No.10 | 6.0-8.5 | 4.4-6.3 | 7-10 | 5.0-7.2 | 10000 | 10500 | 188 | 7 13/32 | 1.00 | 2.2 | 22.0 | 7/8 | 6.35 | 1/4 | 0.15 | 5.3 |
| UX-450 | 5 | No.10 | 7.7-13 | 5.7-9.6 | 9-15 | 6.5-11 | 9000 | 9500 | 147 | 5 25/32 | 0.85 | 1.9 | 22.0 | 7/8 | 9.5 | 3/8 | 0.20 | 7.0 |
| UX-450D | 5 | No.10 | 6.8-12 | 5.0-8.9 | 8-14 | 5.8-10 | 9000 | 9500 | 152 | 5 63/64 | 0.85 | 1.9 | 22.0 | 7/8 | 6.35 | 1/4 | 0.20 | 7.0 |
| UX-500 | 5-6 | No.10-1/4 | 13-21 | 9.6-15.5 | 15-25 | 11-19 | 9000 | 9300 | 147 | 5 25/32 | 0.87 | 1.9 | 22.0 | 7/8 | 9.5 | 3/8 | 0.25 | 8.8 |
| UX-500D | 5-6 | No.10-1/4 | 11-17 | 8.1-12.5 | 13-20 | 10-15 | 9000 | 9300 | 152 | 5 63/64 | 0.87 | 1.9 | 22.0 | 7/8 | 6.35 | 1/4 | 0.25 | 8.8 |
| UX-612 | 6-8 | 1/4-5/16 | 17-30 | 12.5-22.1 | 20-35 | 15-25 | 9000 | 9300 | 160 | 6 19/64 | 0.95 | 2.1 | 22.5 | 7/8 | 9.5 | 3/8 | 0.32 | 11.2 |
| UX-612D | 6-8 | 1/4-5/16 | 13.5-24 | 10.0-17.7 | 16-28 | 12-20 | 9000 | 9300 | 165 | 6 1/2 | 0.95 | 2.1 | 22.5 | 7/8 | 6.35 | 1/4 | 0.32 | 11.2 |
| UX-700 | 8 | 5/16 | 21-38 | 15.5-28.0 | 25-45 | 20-35 | 8700 | 9000 | 169 | 6 21/32 | 1.38 | 3.0 | 25.5 | 1 | 9.5 | 3/8 | 0.35 | 12.3 |
| UX-700D | 8 | 5/16 | 17-31 | 12.5-22.9 | 20-36 | 16-28 | 8700 | 9000 | 174 | 6 27/32 | 1.38 | 3.0 | 25.5 | 1 | 6.35 | 1/4 | 0.35 | 12.3 |
| UX-800 | 8-10 | 5/16-3/8 | 30-51 | 22.1-37.6 | 35-60 | 25-45 | 8500 | 9000 | 175 | 6 57/64 | 1.70 | 3.7 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.40 | 14.1 |
| UX-900 | 10 | 3/8 | 38-64 | 28.0-47.2 | 45-75 | 35-55 | 7300 | 7600 | 181 | 7 1/8 | 1.88 | 4.1 | 30.0 | 1 3/16 | 12.7 | 1/2 | 0.42 | 14.7 |
| UX-1000 | 10-12 | 3/8-1/2 | 43-81 | 31.7-59.8 | 50-95 | 40-70 | 6500 | 6800 | 187 | 7 23/64 | 2.20 | 4.8 | 33.0 | 1 19/64 | 12.7 | 1/2 | 0.51 | 17.9 |
| UX-1300 | 12-14 | 1/2-9/16 | 68-110 | 50.2-81.2 | 80-130 | 60-95 | 5800 | 6200 | 205 | 8 5/64 | 2.70 | 5.9 | 36.0 | 1 27/64 | 12.7 | 1/2 | 0.55 | 19.4 |
| UX-1400 | 14 | 9/16 | 85-135 | 62.7-99.6 | 100-160 | 75-120 | 5000 | 5300 | 224 | 8 13/16 | 3.20 | 7.0 | 40.0 | 1 37/64 | 12.7 | 1/2 | 0.60 | 21.1 |
| UX-1620 | 14-16 | 9/16-5/8 | 100-160 | 73.8-118.1 | 120-190 | 90-140 | 4700 | 5000 | 241 | 9 31/64 | 3.60 | 7.9 | 40.0 | 1 37/64 | 19.0 | 3/4 | 0.65 | 22.9 |
| UXR-1820 | 16-18 | 5/8-3/4 | 135-215 | 99.6-158.7 | 160-250 | 120-185 | 4400 | 4600 | 242 | 9 17/32 | 4.10 | 9.0 | 42.0 | 1 21/32 | 19.0 | 3/4 | 0.75 | 26.3 |
| UXR-2000 | 18-20 | 3/4 | 255-385 | 188.2-284.1 | 300-450 | 220-330 | 4000 | 4200 | 282 | 11 7/64 | 6.50 | 14.3 | 47.0 | 1 27/32 | 19.0 | 3/4 | 0.90 | 31.5 |

Air Inlet Thread : NPT1/4" for U-350D~UX-1620
 NPT3/8" for UXR-1820 & UXR-2000
 Air Hose Size : 6.35mm (1/4") for U-350D~UX-500D
 9.5mm (3/8") for UX-612~UX-1620
 12.7mm (1/2") for UXR-1820 & UXR-2000

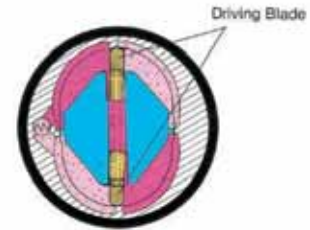
U·UX·UXR SERIES OIL-PULSE TOOLS

STRAIGHT TYPE



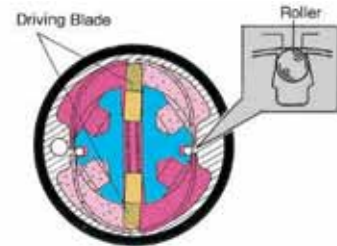
UX Series

The UX series tools have twin Driving Blades in oil pulse unit and generate higher torque output with lighter weight (Better Power-to-Weight Ratio), which is furnished to UX-450 ~UX-1620 series.



UXR Series

Rollers on Anvil in Liner are provided to have perfect contact between Anvil and Liner in UXR series. The patented technology is applied specially to larger tools such as UXR-1820~UXR-3000S.



SPECIFICATIONS

Recommended Air Pressure:0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|-----------|---------------------------------|------------|--------------|-----------|---------|---------|--------------------------------|--------|---------------------------|----------|--|------|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| U-310SD | 3-4 | No.5-No.8 | 2.1-2.6 | 1.6-1.9 | 2.5-3.1 | 1.8-2.2 | 10000 | 11000 | 222 | 8 47/64 | 0.62 | 1.5 | 18.0 | 47/64 | 6.35 | 1/4 | 0.15 | 5.3 |
| U-350SD | 3-4 | No.5-No.8 | 3.0-5.0 | 2.2-3.7 | 3.5-5.8 | 2.5-4.2 | 10000 | 10500 | 238 | 9 3/8 | 0.71 | 1.5 | 22.0 | 47/64 | 6.35 | 1/4 | 0.15 | 5.3 |
| U-410S | 4-5 | No.8-No.10 | 6.0-8.5 | 4.4-6.2 | 7-10 | 5.0-7.2 | 10000 | 10500 | 239 | 9 13/32 | 0.80 | 1.8 | 22.0 | 7/8 | 9.5 | 3/8 | 0.15 | 5.3 |
| U-410SD | 4-5 | No.8-No.10 | 6.0-8.5 | 4.4-6.3 | 7-10 | 5.0-7.2 | 10000 | 10500 | 240 | 9 29/64 | 0.80 | 1.8 | 22.0 | 7/8 | 6.35 | 1/4 | 0.15 | 5.3 |
| UX-450S | 5 | No.10 | 7.7-13 | 5.7-9.6 | 9-15 | 6.5-11 | 9000 | 9500 | 234 | 9 7/32 | 0.80 | 1.8 | 22.0 | 7/8 | 9.5 | 3/8 | 0.20 | 7.0 |
| UX-450SD | 5 | No.10 | 6.8-12 | 5.0-8.8 | 8-14 | 5.8-10 | 9000 | 9500 | 239 | 9 13/32 | 0.80 | 1.8 | 22.0 | 7/8 | 6.35 | 1/4 | 0.20 | 7.0 |
| UX-500S | 5-6 | No.10-1/4 | 13-21 | 9.6-15.5 | 15-25 | 11-19 | 9000 | 9300 | 239 | 9 13/32 | 0.92 | 2.0 | 22.0 | 7/8 | 9.5 | 3/8 | 0.25 | 8.8 |
| UX-500SD | 5-6 | No.10-1/4 | 11-17 | 8.1-12.5 | 13-20 | 10-15 | 9000 | 9300 | 244 | 9 29/64 | 0.92 | 2.0 | 22.0 | 7/8 | 6.35 | 1/4 | 0.25 | 8.8 |
| UX-612S | 6-8 | 1/4-5/16 | 17-30 | 12.5-22 | 20-35 | 15-25 | 9000 | 9300 | 248 | 9 49/64 | 1.00 | 2.2 | 23.3 | 29/32 | 9.5 | 3/8 | 0.32 | 11.1 |
| UX-612SD | 6-8 | 1/4-5/16 | 13.5-24 | 10-17.7 | 16-28 | 12-20 | 9000 | 9300 | 253 | 9 61/64 | 1.00 | 2.2 | 23.3 | 29/32 | 6.35 | 1/4 | 0.32 | 11.1 |
| UX-700S | 8 | 5/16 | 21-38 | 15.5-28 | 25-45 | 20-35 | 8700 | 9000 | 244 | 9 29/64 | 1.27 | 2.8 | 26.5 | 1 3/64 | 9.5 | 3/8 | 0.35 | 12.3 |
| UX-700SD | 8 | 5/16 | 17-31 | 12.5-22.9 | 20-36 | 16-28 | 8700 | 9000 | 249 | 9 51/64 | 1.27 | 2.8 | 26.5 | 1 3/64 | 6.35 | 1/4 | 0.35 | 12.3 |
| UX-800S | 8-10 | 5/16-3/8 | 30-51 | 22-37.6 | 35-60 | 25-45 | 8500 | 9000 | 250 | 9 27/32 | 1.48 | 3.2 | 35.5 | 1 | 9.5 | 3/8 | 0.40 | 14.2 |
| UX-900S | 10 | 3/8 | 38-64 | 28-47.2 | 45-75 | 35-55 | 7300 | 7600 | 310 | 12 13/64 | 1.80 | 3.9 | 37.5 | 1 9/64 | 12.7 | 1/2 | 0.42 | 14.9 |
| UX-1000S | 10-12 | 3/8-1/2 | 43-81 | 31.7-59.8 | 50-95 | 40-70 | 6500 | 6800 | 320 | 12 19/32 | 2.10 | 4.6 | 39.0 | 1 17/64 | 12.7 | 1/2 | 0.51 | 17.9 |
| UX-1300S | 13-14 | 1/2-9/16 | 68-110 | 50.2-81.2 | 80-130 | 60-95 | 5800 | 6200 | 336 | 13 15/64 | 2.55 | 6.6 | 42.0 | 1 11/32 | 12.7 | 1/2 | 0.55 | 19.4 |
| UXR-2000S | 18-20 | 3/4 | 255-385 | 188-284 | 300-450 | 220-330 | 4000 | 4200 | 340 | 13 25/64 | 7.00 | 15.4 | 47.0 | 1 27/32 | 19.0 | 3/4 | 0.90 | 31.6 |
| UXR-2400S | 24 | 7/8 | 340-550 | 251-406 | 400-650 | 290-470 | 3700 | 4000 | 385 | 15 5/32 | 11.00 | 23.7 | 55.0 | 2 1/8 | 25.4 | 1 | 1.00 | 35.2 |
| UXR-3000S | 30 | 1/4 | 425-725 | 313-535 | 500-850 | 360-630 | 4200 | 4400 | 455 | 17 29/32 | 13.30 | 29.3 | 62.0 | 2 1/8 | 25.4 | 1 | 1.05 | 37.1 |

Air Inlet Size : NPT1/4" for U-310SD~UX-1300S NPT3/8" for UXR-2000S
NPT1/2" for UXR-2400S~UXR-3000S

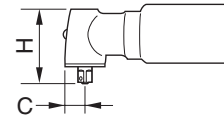
Air Hose Size : 6.35mm (1/4") for U-310SD~UX-500SD 9.5mm (3/8") for UX-612C~UX-1300S
12.7mm (1/2") for UXR-2000S~UXR-3000S

Inside Trigger is available for UXR-2000S~UXR-3000S

UX SERIES OIL-PULSE TOOLS



Head Sizes



| MODEL | C | | H | |
|----------|------|-------|------|---------|
| | mm | in | mm | in |
| UX-500C | 15.0 | 19/32 | 59.5 | 2 11/32 |
| UX-612C | 16.0 | 5/8 | 59.5 | 2 11/32 |
| UX-700C | 16.0 | 5/8 | 62.0 | 2 7/16 |
| UX-800C | 18.0 | 45/64 | 70.0 | 2 3/4 |
| UX-900C | 18.0 | 45/64 | 70.0 | 2 3/4 |
| UX-1000C | 21.5 | 27/32 | 80.0 | 3 5/32 |

SPECIFICATIONS

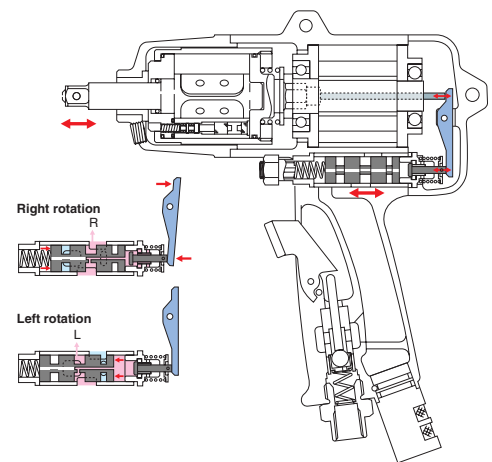
Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | Angle Height (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|----------|---------------------------------|------------|--------------|-----------|--------|-----------|--------------------------------|--------|---------------------------|----------|--|-----|-------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.4MPa | | 0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UX-500C | 5-6 | No. 10-1/4 | 11-17 | 8.0-12.5 | 13-20 | 10.0-15.0 | 8800 | 9300 | 270 | 10 5/8 | 1.28 | 2.8 | 59.5 | 2 11/32 | 9.5 | 3/8 | 0.25 | 8.8 |
| UX-612C | 6 | 1/4 | 13.5-24 | 9.9-17.7 | 16-28 | 12.0-20.0 | 9300 | 9800 | 283 | 11 9/64 | 1.38 | 3.0 | 59.5 | 2 11/32 | 9.5 | 3/8 | 0.32 | 11.2 |
| UX-700C | 8 | 5/16 | 17-31 | 12.5-22.8 | 20-36 | 16.0-28.0 | 9000 | 9500 | 273 | 10 3/4 | 1.67 | 3.7 | 62.0 | 2 7/16 | 9.5 | 3/8 | 0.35 | 12.3 |
| UX-800C | 8-10 | 5/16-3/8 | 25-36 | 18.4-26.5 | 29-43 | 20.0-31.0 | 8500 | 9000 | 285 | 11 7/32 | 1.93 | 4.3 | 70.0 | 2 3/4 | 9.5 | 3/8 | 0.40 | 14.1 |
| UX-900C | 10 | 3/8 | 30-47 | 22.1-34.6 | 35-55 | 25.0-40.0 | 7300 | 7600 | 338 | 13 5/16 | 2.25 | 5.0 | 70.0 | 2 3/4 | 9.5 | 3/8 | 0.42 | 14.9 |
| UX-1000C | 10-12 | 3/8-1/2 | 43-68 | 31.7-50.1 | 50-80 | 40.0-58.0 | 6600 | 6800 | 365 | 14 3/8 | 3.05 | 6.8 | 80.0 | 2 5/32 | 12.7 | 1/2 | 0.51 | 17.9 |
| UX-612A | 6 | 1/4 | 13.5-24 | 9.9-17.7 | 16-28 | 12.0-20.0 | 9300 | 9800 | 297 | 11 11/16 | 1.38 | 3.0 | - | - | 9.5 | 3/8 | 0.30 | 10.5 |

Air Inlet size : NPT1/4"

Air Hose Size : 6.35mm (1/4") for UX-500C 9.5mm (3/8") for UX-612C-UX-1000C

UX-ST SERIES OIL-PULSE TOOLS



Auto-reversing mechanism

These unique Push-Pull type Oil-Pulse tools simplify stud-bolt driving job considerably without any special operation for frequent reversing. Push the tool forward to the work for driving and simply pull back for automatic reversing.

SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|-----------|---------------------------------|----------|--------------|--------|--------|--------|--------------------------------|--------|---------------------------|---------|--|-----|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UX-ST800 | 8-10 | 5/16-3/8 | 30-47 | 22-35 | 35-55 | 25-40 | 7000 | 7300 | 195 | 7 43/64 | 1.75 | 3.8 | 28.0 | 1 3/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UX-ST1000 | 10-12 | 3/8-1/2 | 43-77 | 32-57 | 50-90 | 40-65 | 6000 | 6300 | 210 | 8 17/64 | 2.50 | 5.5 | 33.0 | 1 19/64 | 12.7 | 1/2 | 0.48 | 16.8 |

Air Inlet Size: NPT1/4"

Air Hose Size: 9.5mm (3/8")

SUPER "INTELEC" SYSTEM UEC-4800(SD) SERIES CONTROLLER

On the fastening job, it is very important to select the correct tools to meet International Standards and customer's demands. UEC-4800(SD) series is a multi-function controller which complies with various fastening conditions by controlling a transducerized tool very accurately. Ethernet (TCP / IP) is standardized to meet the needs of the times.

UEC-4800TPA/E(SD)

Features

- 1) Programming is easy on front touch panel. You can also upload your programme from PC.
- 2) UEC-4800(SD) can be used with a various types of transducerized tool.
 - a. Oil-Pulse Tools fitted with a Magnetostrictive Transducer UA-MC series, ALPHA-MC series, UEP-MC series (UEPD Driver is required separately.)
 - b. Oil-Pulse Tools fitted with a Strain-Gauged Transducer U-EC series, UX-EC series
 - c. Pneumatic Tools fitted with a Strain-Gauged Transducer UAN-M series, UOW-M series, UNR-NT series
- 3) High Reliable Torque Control & Monitor
- 4) Ethernet (TCP / IP) capable.

Functions

- 1) You can choose between Torque Control and Monitor. You can detect various errors and control the job with fastening counter.
- 2) You can see Torque Wave 'data on both front touch panel and PC.
- 3) UEC-4800(SD) can be used for 8 different fastening applications.
- 4) Front panel, PC display or buzzer will tell you Input / Output (terminal blocks & tool wiring) checks and Errors.
- 5) UEC-4800(SD) memorizes cumulative fastening numbers and pulse numbers from the start of operation.
- 6) UEC-4800(SD) memorizes max. 12,000 fastening data. Standard deviations, Cp value, Cpk value can be analyzed instantly from the stored data within the controller. When you connect UEC-4800(SD) to PC, you can graph the statistical data.
- 7) By using Input / Output terminals UEC-4800(SD) can be interlocked with the production line.



Torque Wave Monitor Display

Torque Monitor Display



UEC-4800TPA/E(SD) SPECIFICATIONS

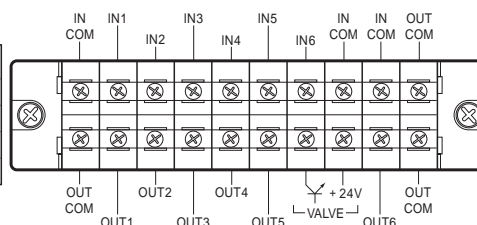
| | |
|------------------------|---|
| POWER SUPPLY | AC100 ~ 240V ±10% |
| POWER FREQUENCY | 50/60 Hz |
| NOISE PROTECTION | 1000V 1μS (according to noise simulator) |
| INSULATION PROTECTION | DC500V over 10MΩ |
| AMBIENT TEMPERATURE | 0 ~ 50 (non-freezing) |
| AMBIENT HUMIDITY | Under 90%RH (no dew) |
| POWER CONSUMPTION | Approx. 30VA |
| WEIGHT | Approx. 3.6 kg |
| DIMENSIONS | 265(D) x 222(W) x 120(H) |
| MAIN FUNCTIONS | Torque Monitoring / Control + Fastening Counter |
| PARAMETER SETUP | Manual Input on Front Touch Pannel Personal Computer (with setup software) |
| DISPLAY | Torque Resolution ±2048 (12Bit A/D) 320 x 240 dot 25 characters x 15 lines |
| LED | COUNT Lamp : OK (Green) / NOK (Red) TORQUE Lamp : LOW (Yellow) / OK (Green) / HIGH (RED) |
| INPUT TERMINAL SIGNAL | Operation Voltage/Current : DC24V/aprox. 10mA 6 terminals (free format), VALVE |
| OUTPUT TERMINAL SIGNAL | Contact Capacity : AC:125V, 0.3A, DC:30V, 1A 6 terminals (free format), VALVE |

Our conventional UEC-4800 series have been superseded by UEC-4800(SD) which have the following new functions.

- 1) **miniSD card slot on the back panel**
Fastening data and wave can be saved in miniSD card. It is also possible to save and read setting values in miniSD card.
- 2) **Terminal on the rear side**
Below terminals are added.
1 x Input terminal
1 x Output terminal
2 x Input COM terminals
2 x Output COM terminals
- 3) **Valve Check**
Valve wiring check function is added. It checks the valve connection to the terminal and if you use ALPHA-MC fitted with the valve inside the tool, it checks the tool valve connection.
- 4) **Other differences**
The fastest PC communication speed becomes 115200 bps. from 38400 bps. Speed of inputting and deleting memory data will be quicker.

(Input Terminal Block)

| Signal Allocations |
|--|
| COM:Common Terminal for the input terminals.(-) |
| IN 1 ~ 6:Input Terminals |
| IN COM:Common Terminal for the input terminals.(-) |
| OUT COM:Common Terminal for the output terminals. |



(Output Terminal Block)

| Signal Allocations |
|---|
| COM:Common Terminal for the output terminals. |
| OUT 1 ~ 5:Output Terminals |
| VALVE:Valve Output (0V) |
| VALVE COM:+24V |
| OUT 6:Output Terminal |
| OUT COM:Common Terminal for the output terminals. |

SUPER "INTELEC" SYSTEM UEC-4800(SD) SERIES CONTROLLER

UEC-4800A/E(SD)

Features

- 1) LCD type front panel is economical.
- 2) Programming is easy on front LCD panel.
You can upload your programme from PC.

Functions

- 1) You can see Torque Wave 'data on PC.
- 2) UEC-4800(SD) memorises max. 12,000 fastening data. When you connect UEC to PC, standard deviations, Cp value, Cpk value can be analysed instantly from the stored data within the controller and you can graph the statistical data.

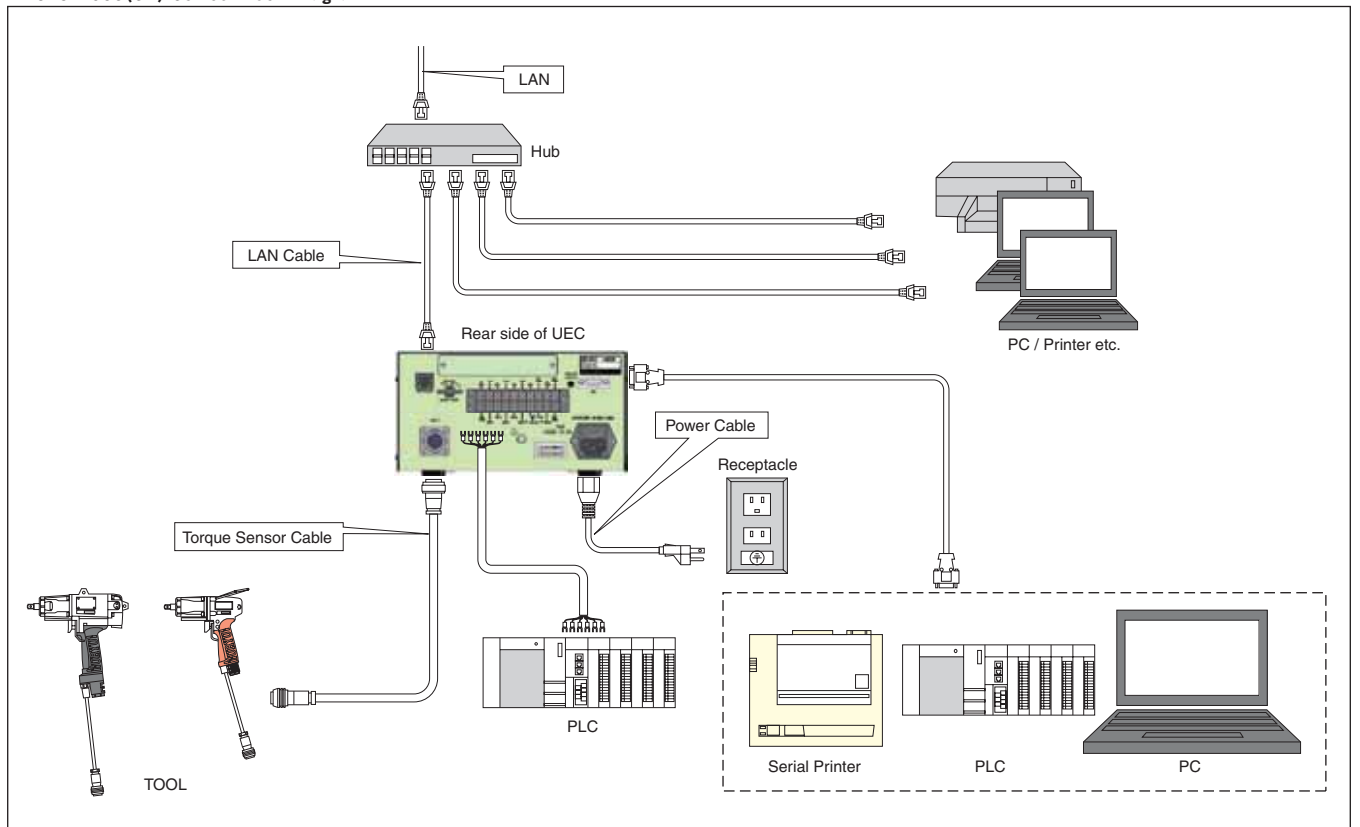
Other features and functions are the same as UEC-4800TP(SD)'s.



UEC-4800A/E(SD) SPECIFICATIONS

| | | | |
|-----------------------|--|------------------------|--|
| POWER SUPPLY | AC100 ~ 240V ±10% | DISPLAY | Torque Resolution ±2048 (12Bit A/D) |
| POWER FREQUENCY | 50/60 Hz | | LCD : 20 characters x 4 lines |
| NOISE PROTECTION | 1000V 1μS (according to noise simulator) | | Contents : WORK NO. / FASTENING COUNT |
| INSULATION PROTECTION | DC500V over 10MΩ | | DOWN NO. / FASTENING TIME / PULSE NO. |
| AMBIENT TEMPERATURE | 0 ~ 50 (non-freezing) | | 1-digit digital display (DPM) : WORK NO. |
| AMBIENT HUMIDITY | Under 90%RH (no dew) | LED | 4-digit digital display (DPM) : TORQUE |
| POWER CONSUMPTION | Approx. 30VA | | COUNT Lamp : OK (Green) / NOK (Red) |
| WEIGHT | Approx. 3.6 kg | INPUT TERMINAL SIGNAL | TORQUE Lamp : LOW (Yellow) / OK (Green) / HIGH (RED) |
| DIMENSIONS | 265(D) x 222(W) x 120(H) | | Operation Voltage/Current : DC24V/aprox. 10mA |
| MAIN FUNCTIONS | Torque Monitoring / Control + Fastening | OUTPUT TERMINAL SIGNAL | 6 terminals (free format), VALVE |
| | Counter | | 6 terminals (free format), VALVE |
| PARAMETER SETUP | Manual Input on Front LCD Panel | | Contact Capacity : AC:125V, 0.3A, DC:30V, 1A |
| | Personal Computer (with setup software) | | 6 terminals (free format), VALVE |

UEC-4800(SD) Series Block Diagram



SUPER "INTELEC" SYSTEM UEC-5500 SERIES CONTROLLER

It is not easy to select the most suitable tool to meet with International Standards or customer's demand in the fastening process. UEC-5500 series is a multi-function controller which complies with various fastening conditions by controlling a transducerized tool very accurately. Ethernet (TCP / IP) is standardized to meet the needs of the times.

Features

- 1) UEC-5500 can control max. 4 different transducerized tools simultaneously.
- 2) UEC-5500 can be used with various types of transducerized tools.
 - a. Oil-Pulse Tools fitted with a brushless type Magnetostrictive Transducer UL-MC Series, ALPHA-MC Series, UEP-MC Series (UEPD Driver is required separately.)
 - b. Oil-Pulse Tools fitted with a Strain-Gauged Transducer U-EC Series, UX-EC Series
 - c. Pneumatic Tools fitted with a Strain-Gauged Transducer UAN-M Series and UOW-M Series
- 3) High Reliable Torque Control & Monitor
- 4) Easy Programming with a Removable Key Pad You can also upload the fastening programmes from PC.
- 5) Ethernet (TCP / IP) capable.

Functions

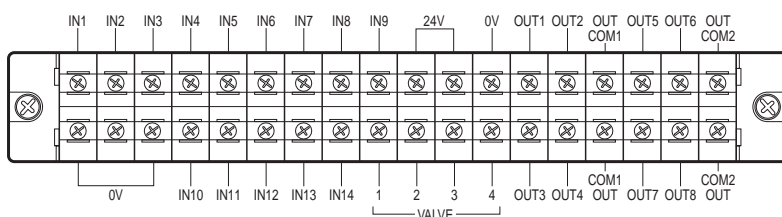
- 1) You can choose between Torque Control and Monitor. You can detect various errors and control the job with fastening counter.
- 2) You can see Torque Wave Data on PC.
- 3) UEC-5500 can be used for 8 different fastening applications.
- 4) Front panel, PC display or buzzer will tell you Input / Output (terminal blocks / tool wiring) checks and errors.
- 5) UEC-5500 memorizes cumulative fastening numbers and pulse numbers from the start of operation.
- 6) UEC-5500 memorizes max. 20,000 fastening data per spindle. By connecting to PC, standard deviations, Cp value, Cpk value can be analyzed instantly from the stored data within the controller and you can graph the statistical data.
- 7) By using Input / Output terminals UEC-5500 can be interlocked with the production line.



UEC-5500A/E SPECIFICATIONS

| | |
|------------------------|---|
| POWER SUPPLY | AC100 ~ 240V ±10% |
| POWER FREQUENCY | 50 / 60 Hz |
| NOISE PROTECTION | 1000V 1μS (according to noise simulator) |
| INSULATION PROTECTION | DC500V over 10MΩ |
| AMBIENT TEMPERATURE | 0 ~ 50 (non-freezing) |
| AMBIENT HUMIDITY | Under 90%RH (no dew) |
| POWER CONSUMPTION | Approx. 50VA |
| WEIGHT | Approx. 3.6 kg |
| DIMENSIONS | 240(D) x 270(W) x 115(H) |
| MAIN FUNCTIONS | Torque Monitoring / Control + Fastening Counter |
| PARAMETER SETUP | Removable Key Pad Personal Computer (with setup software) |
| DISPLAY | Torque Resolution ±2048 (12Bit A/D) |
| | 4-digit digital display : TORQUE |
| | 2-digit digital display : FASTENING COUNT DOWN NO. |
| | 1-digit digital display (small) x 4 : WORK NO. |
| LED | 1-digit digital display (large) x 4 : SPINDLE NO. |
| | Each Spindle's COUNT Lamp : OK (Green) / NOK (Red) TORQUE Lamp : LOW (Yellow) / OK (Green) / HIGH (RED) |
| INPUT TERMINAL SIGNAL | Drive by Electric Current Input (Photo Coupler Insulation) Voltage : DC24V Insulation Resistance : 4.7KΩ |
| OUTPUT TERMINAL SIGNAL | Contact Capacity : AC:125V, 0.3A, DC:30V, 1A 8 terminals (free format), VALVE, +24V |

Input / Output Terminals



IN : Input Terminals
 OUT : Output Terminals
 24V : 24V valve output
 OUT COM1 : Common for output terminals (OUT1 ~ 4)
 OUT COM2 : Common for output terminals (OUT5 ~ 8)
 0V : 0V for Input terminals (common for all input terminals)
 VALVE1 ~ VALVE4 : Valve output for each spindle

Key Pad (910-208-0) and Key Pad Cable (910-206-0) are optional items.

SUPER "INTELEC" SYSTEM UDP-MC TOOLS



Controller for UDP-MC tools is UECP-4800. It is an exclusive controller for UDP-MC so cannot be connected to other MC / EC tools.

Functions

- 1) Motor Setting
 - Motor current can be set in 4 steps.
 - Motor rotational speed can be set in 100 rpm increments (By the 2-step fastening, torque spike at bolt seating is inhibited, and make it possible to cover the wider torque range.)
- 2) The functions of various fastening error detections and fastener number count down assure your operations.
- 3) Makes setup or changeover of fastening torque and fastening number count.
- 4) Tool's maintenance is possible by counting both total cycle numbers(how many fasteners) and/or total pulse numbers.
- 5) Input/Output check and error messages can be checked from your PC screen or the front panel of UECP-4800 with buzzer sounding.
- 6) Can set up and monitor various control values and setting values either on the front panel or on your PC screen.
- 7) Ethernet(TCP/IP) capable. Upload and receipt of the setting values, upload of the fastening result /waveform data through PC software.

Features

- 1) **Power Supply:** UDP tool is driven by commercial electricity. This helps you build an assembly line easily and adjust it flexibly to the layout change.
- 2) **Light Weight:** The housing is made from plastic and designed to be light and rugged, based on the cultivated experience in pneumatic tool.
- 3) **Motor:** High Power and High efficiency adopted by IPM motor.
- 4) **Automatic ventilation system:** Cooling fan is activated automatically when pulling the throttle trigger, which contribute to heat reduction and increase number of fastening.
- 5) **Pulse unit:** Uryu know-how acquired from the pneumatic oil-pulse tool development, and newly developed Auto Relief Function is adopted.
- 6) **Safety:** The intelligence of UDP-MC tool stops operation immediately to protect the operator from the failure including overloaded operation, short circuit, and broken wire, which minimizes the possible influence over operator and shop floor.



UECP-4800 SPECIFICATIONS

| | |
|------------------------|--|
| POWER SUPPLY | AC100 ~ 240V ±10% |
| POWER FREQUENCY | 50 / 60 Hz |
| NOISE PROTECTION | 1000V 1μS (according to noise simulator) |
| INSULATION PROTECTION | DC500V over 10MΩ |
| AMBIENT TEMPERATURE | 0 ~ 50 (non-freezing) |
| AMBIENT HUMIDITY | 90% RH or less (no dew) |
| WEIGHT | 11.30 kg |
| DIMENSIONS | 265(D) x 222(W) x 200(H) |
| MAIN FUNCTIONS | Torque control, Torque monitor Fastener number count |
| PARAMETER SETUP | Manual input on front LCD panel By PC (with exclusive URYU setup software) |
| DISPLAY | Torque resolution ±2048 (12 bit by A/D use) |
| | LCD type LCD (20 letters x 4 lines) |
| | Work number, Bolt count number, Tightening time and Pulse blow number 1-digit Digital Display (DPM) Work number displayed 4-digit Digital Display (DPM) Torque reading displayed |
| LED | Total Lamp (for Count Judgment) : OK (green) / NOK (red) Torque Lamp (for Torque Judgment) : LOW (yellow) / OK(green) / HIGH(red) |
| INPUT TERMINAL SIGNAL | Operation Voltage/Current : DC24V / about 10mA 6 terminals available (programmable) Note: Contact input necessary |
| OUTPUT TERMINAL SIGNAL | Contact Capacity : DC30V, 1A 6 terminals available (programmable), VALVE |

Features, functions and terminal block are the same as UEC-4800(SD), so refer to page 26 and 27 for more understanding.

Electric Oil-Pulse Tool UDP-MC Series

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | Free Speed (Approx.) | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | |
|------------|------------------------------|-----------|--------------|-----------|----------------------|------------------------|---------|-----------------------------------|------|--------------------------------|--------|------------------------|-----|
| | mm | in | Nm | ft-lbs | rpm | mm | in | kg | lb | mm | in | mm | in |
| UDP-A60MC | 6-8 | 1/4 -5/16 | 5-25 | 3.7-18.5 | 4800 | 214 | 8 27/64 | 1.53 | 3.37 | 29.5 | 1 5/32 | 9.5 | 3/8 |
| UDP-A60LMC | 5-6 | NO.10-1/4 | 4-20 | 3.0-14.8 | 4800 | 214 | 8 27/64 | 1.53 | 3.37 | 29.5 | 1 5/32 | 9.5 | 3/8 |
| UDP-A80MC | 8-12 | 5/16-1/2 | 25-55 | 18.5-40.5 | 4800 | 242 | 9 33/64 | 1.78 | 3.92 | 29.5 | 1 5/32 | 9.5 | 3/8 |

SUPER "INTELEC" SYSTEM UECD-4800 SERIES DRIVER•CONTROLLER

We have achieved the cost efficiency by combining our multi-functional controller to control the tool with brushless Magnetostrictive transducer which can be adjusted to a variety of applications and our driver box which supplies power to our electric pulse tool UEP wrenches, allowing the users to select the tool which complies with the international standards for threaded applications and meet the users' requirements. It is Ethernet capable so that it can meet the demands of the times.

UECD-4800TP series



UECD-4800TPA/E SPECIFICATIONS

| | |
|------------------------|--|
| POWER SUPPLY | UECD-4800TPA: AC 115V UECD-4800TPE: AC 230V |
| POWER FREQUENCY | 50 / 60 Hz |
| NOISE PROTECTION | 1000V 1μS (depending on a noise simulator) |
| INSULATION PROTECTION | DC500V over 10MΩ |
| AMBIENT TEMPERATURE | 0 - 50 |
| AMBIENT HUMIDITY | less than 90 % (non condensing) |
| POWER CONSUMPTION | Approx. 50 - 400VA |
| WEIGHT | Approx. 10 - 12 kg |
| DIMENSIONS | 265 (D) x 222 (W) x 200 (H) |
| MAIN FUNCTIONS | Torque Monitor / Control Fastening Count Control |
| PARAMETER SETUP | Front Panel Personal Computer with setup software |
| DISPLAY | Torque Resolution ±2048 (12Bit A/D) 320 x 240 dot 25 characters x 15 lines for double bytes character |
| LED | Fastening counter: Green for OK / Red for NOK Torque Judgment: Yellow for LOW / Green for OK / Red for HIGH |
| INPUT TERMINAL SIGNAL | Operation voltage / current: DC24V / 10mA (approx.) 5 inputs programmable |
| OUTPUT TERMINAL SIGNAL | Contact Capacity: AC 125V / 0.3A DC 30V / 1A 5 outputs programmable, valve |

| Model | UEP Model | Weight (approx.) | Voltage | Rated Power |
|--------------------|---------------|------------------|-----------|-------------|
| UECD-4800TPA/E-50 | UEP-50MC | 10kg (22.0lb) | 115V/230V | 4.2A |
| UECD-4800TPA/E-60 | UEP-60MC | 10kg (22.0lb) | 115V/230V | 5.0A |
| UECD-4800TPA/E-70 | UEP-70MC/80MC | 10kg (22.0lb) | 115V/230V | 5.6A |
| UECD-4800TPA/E-100 | UEP-100MC | 12kg (26.4lb) | 115V/230V | 9.7A |

UECD-4800 series



UECD-4800A/E SPECIFICATIONS

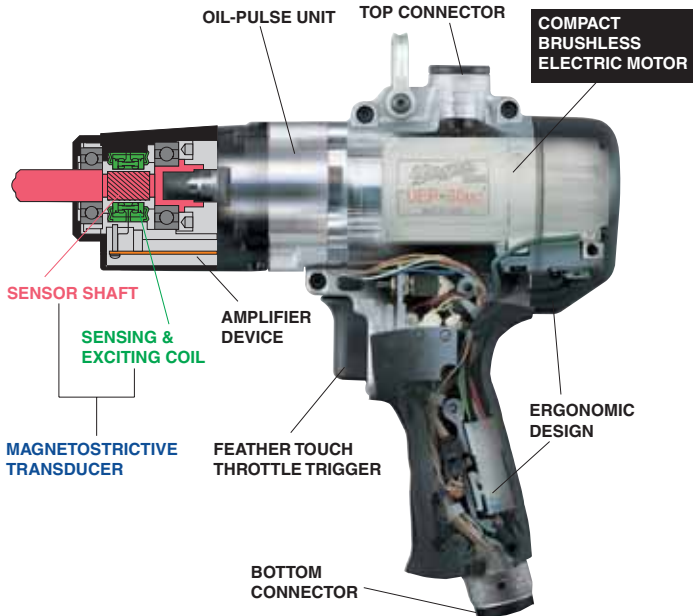
| | |
|------------------------|---|
| POWER SUPPLY | UECD-4800A: AC 115V UECD-4800E: AC 230V |
| POWER FREQUENCY | 50 / 60 Hz |
| NOISE PROTECTION | 1000V 1μS (depending on a noise simulator) |
| INSULATION PROTECTION | DC500V over 10MΩ |
| AMBIENT TEMPERATURE | 0 - 50 |
| AMBIENT HUMIDITY | less than 90 % (non condensing) |
| POWER CONSUMPTION | Approx. 50 - 400VA |
| WEIGHT | Approx. 10 - 12 kg |
| DIMENSIONS | 265 (D) x 222 (W) x 200 (H) |
| MAIN FUNCTIONS | Torque Monitor / Control Fastening Count Control |
| PARAMETER SETUP | Front Panel Personal Computer with setup software |
| DISPLAY | Torque Resolution ±2048 (12Bit A/D) LCD (20 characters x 4 lines) Work No. / Fastening Counter / Fastening Time / Blow Number 1 Digit Numeric Display: Work No. 4 Digit Numeric Display: Torque Reading |
| LED | Fastening counter: Green for OK / Red for NOK Torque Judgment: Yellow for LOW / Green for OK / Red for HIGH |
| INPUT TERMINAL SIGNAL | Operation voltage / current: DC24V / 10mA (approx.) 5 inputs programmable |
| OUTPUT TERMINAL SIGNAL | Contact Capacity: AC 125V / 0.3A DC 30V / 1A 5 outputs programmable, valve |

| Model | UEP Model | Weight (approx.) | Voltage | Rated Power |
|------------------|---------------|------------------|-----------|-------------|
| UECD-4800A/E-50 | UEP-50MC | 10kg (22.0lb) | 115V/230V | 4.2A |
| UECD-4800A/E-60 | UEP-60MC | 10kg (22.0lb) | 115V/230V | 5.0A |
| UECD-4800A/E-70 | UEP-70MC/80MC | 10kg (22.0lb) | 115V/230V | 5.6A |
| UECD-4800A/E-100 | UEP-100MC | 12kg (26.4lb) | 115V/230V | 9.7A |

Refer to the UEC-4800TP(SD) and UEC-4800(SD) for features and functions of controller.

SUPER "INTELEC" SYSTEM ELECTRIC TOOLS

"UEP WRENCH" is a combination tool of the unique hydraulic pulse unit and the DC brushless motor utilized as a driving source taking environmental problem into consideration and displays "GOOD" or "NG" on LED by connecting with UEPD Driver. UEP-MC WRENCH is additionally incorporated the Magnetostrictive transducer designed to precisely measure dynamic torque of Oil-Pulse Tool and displays "Torque Value" and "Fastening Count-Down" by connecting with UEC-4800 Controller through UEPD Driver. With the more amazing features than typical Oil-Pulse Tool, UEP Electric Oil-Pulse Wrenches are ideal for continuous heavy production as the Ultimate fastening tools employing ergonomic design (low noise, low vibration, low torque reaction) for minimum operator fatigue, high-efficient and high-accurate operation.



Features

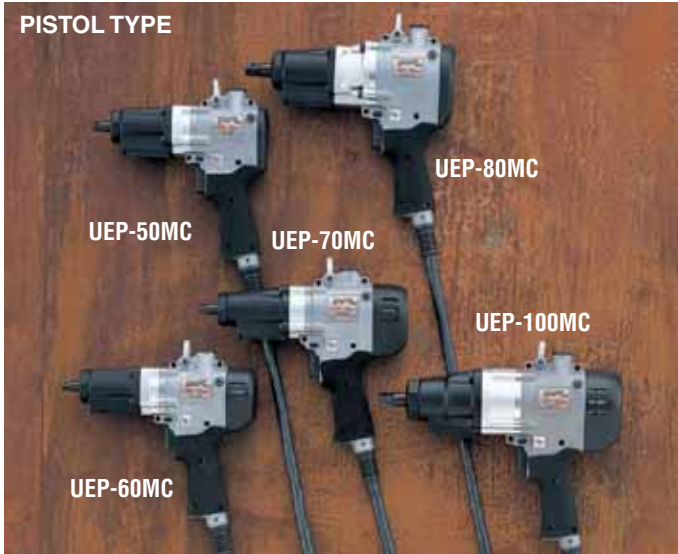
- Power Supply:** UEP tool is driven by commercial electricity. This helps you build an assembly line easily and adjust it flexibly to the layout change.
- Light Weight:** The housing is made from aluminum base alloy and designed to be light and rugged, based on the cultivated experience in pneumatic tool.
- Motor:** The DC brushless motor incorporated into UEP tool produces less noise and vibration and does not require the change of brush, which helps you save running cost. The built-in servo mechanism enables the smooth start and high torque output and achieves the low level of noise and reaction because of no reduction gear built in.
- Pulse Unit:** The UEP tool provides you with the consistent tightening, based on Uryu know-how acquired from the pneumatic oil-pulse tool development.
- Safety:** The intelligence of UEP tool stops operation immediately to protect the operator from the failure including overloaded operation, short circuit, and broken wire, which minimizes the possible influence over operator and shop floor.

| Model | Driver / Controller Model | Weight (approx.) | Voltage | Rated Power |
|---------------|---------------------------|------------------|-----------|-------------|
| UEP-50MC | UECD-4800TPA/E-50 | 10kg (22.0lb) | 115V/230V | 4.2A |
| UEP-60MC | UECD-4800TPA/E-60 | 10kg (22.0lb) | 115V/230V | 5.0A |
| UEP-70/80MC | UECD-4800TPA/E-70 | 10kg (22.0lb) | 115V/230V | 5.6A |
| UEP-100MC | UECD-4800TPA/E-100 | 12kg (26.4lb) | 115V/230V | 9.7A |
| UEP-50MC | UECD-4800A/E-50 | 10kg (22.0lb) | 115V/230V | 4.2A |
| UEP-60MC | UECD-4800A/E-60 | 10kg (22.0lb) | 115V/230V | 5.0A |
| UEP-70MC/80MC | UECD-4800A/E-70 | 10kg (22.0lb) | 115V/230V | 5.6A |
| UEP-100MC | UECD-4800A/E-100 | 12kg (26.4lb) | 115V/230V | 9.7A |

| Model | Driver Box Model | Dimensions (W x D x H) | Weight (approx.) | Frequency | Voltage | Rated Power |
|------------------|------------------|---|------------------|-----------|-----------|-------------|
| UEP-50 series | UEPD-51A/E | 222(4 45/64) x 265(10 7/16) x 143(5 5/8) | 8.0kg(17.6lb) | 50Hz/60Hz | 115V/230V | 4.2A |
| UEP-60 series | UEPD-61A/E | 222(4 45/64) x 265(10 7/16) x 143(5 5/8) | 8.0kg(17.6lb) | 50Hz/60Hz | 115V/230V | 5.0A |
| UEP-70/80 series | UEPD-71A/E | 222(4 45/64) x 265(10 7/16) x 143(5 5/8) | 8.0kg(17.6lb) | 50Hz/60Hz | 115V/230V | 5.6A |
| UEP-100 series | UEPD-101A/E | 222(4 45/64) x 265(10 7/16) x 158(6 7/32) | 9.5kg(20.9lb) | 50Hz/60Hz | 115V/230V | 9.7A |

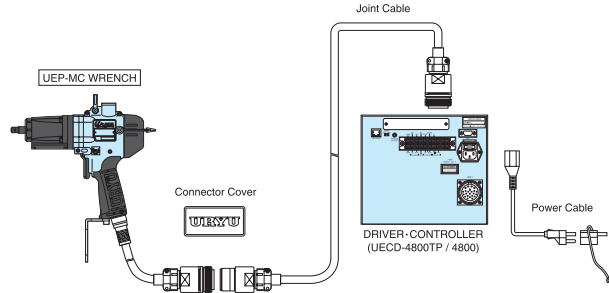
Operation Temperature : 0 - 50 Operation Humidity : Less than 85%RH (No Dew)
 UEP-MC tools can run in conjunction with this driver box and UEC-4800 series.

SUPER "INTELEC" SYSTEM ELECTRIC TOOLS



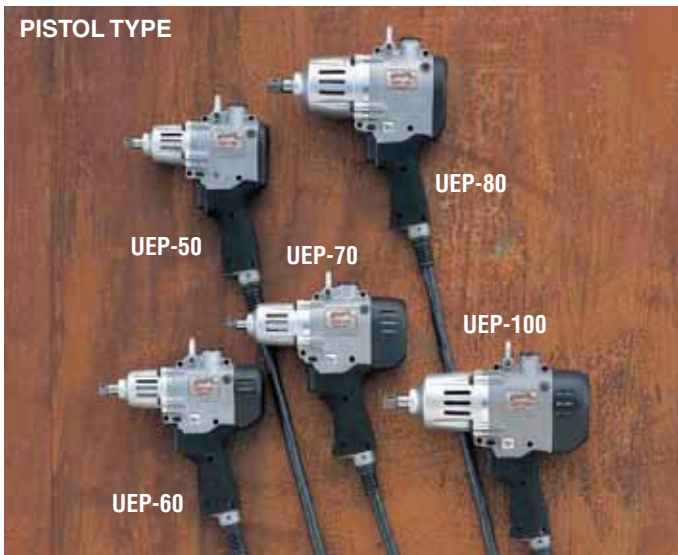
Function of UEP-MC tools

• The Uryu unique non-contact and Magnetostrictive transducer incorporated into UEP-MC tools provides you with the tightening and fastening counter monitoring controlled by high-accurate torque control/mechanism, being connected to our multi-functional controller UECD-4800 series (combination unit of UEC-4800 and UEPD driver box).



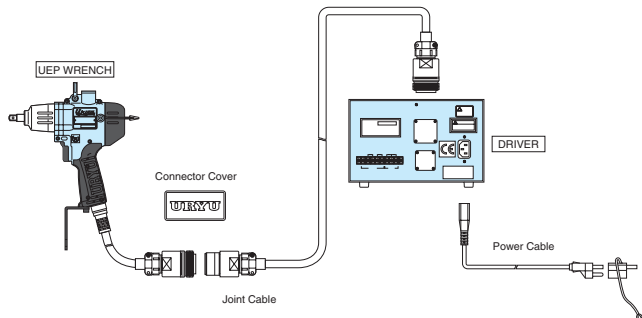
SPECIFICATIONS (UEP-MC TORQUE CONTROL)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | Free Speed (Approx.) | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | |
|-----------|------------------------------|----------|--------------|-----------|----------------------|------------------------|----------|-----------------------------------|------|--------------------------------|--------|------------------------|-----|
| | mm | in | Nm | ft-lbs | rpm | mm | in | kg | lb | mm | in | mm | in |
| UEP-50MC | 5 | No. 10 | 5-10 | 3.7-7.4 | 2000 | 200.0 | 7 7/8 | 1.83 | 4.03 | 25 | 63/64 | 9.5 | 3/8 |
| UEP-50DMC | 5 | No. 10 | 5-10 | 3.7-7.4 | 2000 | 199.5 | 7 55/64 | 1.83 | 4.03 | 25 | 63/64 | 6.35 | 1/4 |
| UEP-60MC | 6 | 1/4 | 10-25 | 7.4-18.5 | 2000 | 222.5 | 8 49/64 | 2.13 | 4.69 | 25 | 63/64 | 9.5 | 3/8 |
| UEP-60DMC | 6 | 1/4 | 10-25 | 7.4-18.5 | 2000 | 222.0 | 8 47/64 | 2.13 | 4.69 | 25 | 63/64 | 6.35 | 1/4 |
| UEP-70MC | 8 | 5/16 | 25-40 | 18.5-29.6 | 2000 | 237.5 | 9 11/32 | 2.38 | 5.24 | 31 | 1 7/32 | 9.5 | 3/8 |
| UEP-80MC | 8-10 | 5/16-3/8 | 30-60 | 22.2-44.4 | 2000 | 237.5 | 9 11/32 | 3.01 | 6.62 | 36.5 | 1 7/16 | 12.7 | 1/2 |
| UEP-100MC | 10-12 | 3/8-1/2 | 60-120 | 44.4-88.8 | 2000 | 276.0 | 10 55/64 | 4.16 | 9.15 | 36.5 | 1 7/16 | 12.7 | 1/2 |



Function of UEP tools

• UEP tools provide you with an accurate timer after the fastener is seated.
 • UEP tools provide you with blow number control.
 • UEP tools provide you with the fastening counter function after being connected to UTM-1500 series.



SPECIFICATIONS (UEP TIME CONTROL)

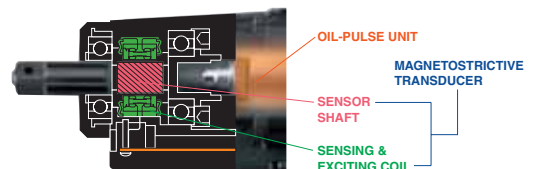
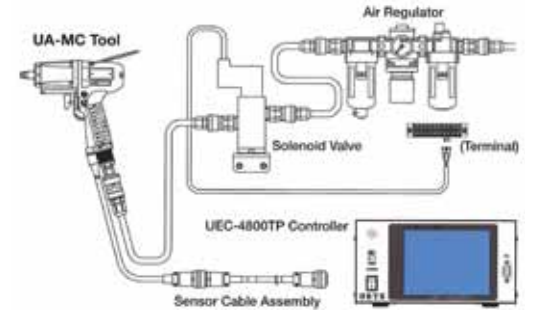
| Model | Capacity (Nominal Bolt Size) | | Torque Range | | Free Speed (Approx.) | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | |
|---------|------------------------------|----------|--------------|-----------|----------------------|------------------------|---------|-----------------------------------|------|--------------------------------|--------|------------------------|-----|
| | mm | in | Nm | ft-lbs | rpm | mm | in | kg | lb | mm | in | mm | in |
| UEP-50 | 5 | No. 10 | 5-10 | 3.7-7.4 | 2000 | 165.5 | 6 33/64 | 1.43 | 3.15 | 25 | 63/64 | 9.5 | 3/8 |
| UEP-50D | 5 | No. 10 | 5-10 | 3.7-7.4 | 2000 | 170.5 | 6 23/32 | 1.43 | 3.15 | 25 | 63/64 | 6.35 | 1/4 |
| UEP-60 | 6 | 1/4 | 10-25 | 7.4-18.5 | 2000 | 188.0 | 7 13/32 | 1.76 | 3.87 | 25 | 63/64 | 9.5 | 3/8 |
| UEP-60D | 6 | 1/4 | 10-25 | 7.4-18.5 | 2000 | 193.0 | 7 19/32 | 1.76 | 3.87 | 25 | 63/64 | 6.35 | 1/4 |
| UEP-70 | 8 | 5/16 | 25-40 | 18.5-29.6 | 2000 | 203.5 | 8 1/64 | 2.2 | 4.84 | 31 | 1 7/32 | 9.5 | 3/8 |
| UEP-80 | 8-10 | 5/16-3/8 | 30-60 | 22.2-44.4 | 2000 | 202.0 | 7 61/64 | 2.73 | 6.01 | 36.5 | 1 7/16 | 12.7 | 1/2 |
| UEP-100 | 10-12 | 3/8-1/2 | 60-120 | 44.4-88.8 | 2000 | 233.5 | 9 3/16 | 3.66 | 8.05 | 36.5 | 1 7/16 | 12.7 | 1/2 |

SUPER "INTELEC" SYSTEM UAMC TOOLS

This URYU SUPER INTELEC system performs control and monitoring of fastening torque, and eliminates time-consuming manual torque check for quality control and higher productivity. Conventional ULMC series have been superceded by this new UAMC series which have improved three performance advantages; accuracy, speed, and durability due to its auto-relief function.



SYSTEM LAYOUT



MAGNETOSTRICTIVE TRANSDUCER

Uryu's brushless Magnetostrictive Torque Transducer consists of Anvil and a pair of sensor coils. Without contacting to the Anvil, the sensor coil detects load given to the Anvil. (non-contact)
The grooves in the Anvil are provided at 45 degree angle in one region. When torque is applied to the Anvil, tensile stress appears on the region and magnet permeability increase. These permeability changes are detected, respectively transformed to the voltage change (proportional to applied torque) and converted to torque signals to control the tool.

SPECIFICATIONS (PISTOL TYPE)

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|---------|---------------------------------|----------|--------------|-----------|------------|-----------|--------------------------------|--------|---------------------------|---------|--|------|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | 0.5MPa | 0.6MPa | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UA40MC | 6 | 1/4 | 4.9-9.3 | 3.6-6.8 | 6.8-12.0 | 5.0-8.8 | 3300 | 3600 | 170 | 6 11/16 | 1.1 | 2.42 | 26 | 1 1/32 | 9.5 | 3/8 | 0.20 | 7.0 |
| UA40DMC | 6 | 1/4 | 4.9-9.3 | 3.6-6.8 | 6.8-12.0 | 5.0-8.8 | 3300 | 3600 | 170 | 6 11/16 | 1.1 | 2.42 | 26 | 1 1/32 | 6.35 | 1/4 | 0.20 | 7.0 |
| UA50MC | 6 | 1/4 | 11.9-22.5 | 8.8-16.6 | 16.6-29.0 | 12.2-21.4 | 4100 | 4250 | 170 | 6 11/16 | 1.1 | 2.42 | 26 | 1 1/32 | 9.5 | 3/8 | 0.25 | 8.8 |
| UA50DMC | 6 | 1/4 | 10.0-19.0 | 7.2-14.0 | 15.0-25.0 | 11.1-18.5 | 4100 | 4250 | 170 | 6 11/16 | 1.1 | 2.42 | 26 | 1 1/32 | 6.35 | 1/4 | 0.25 | 8.8 |
| UA60MC | 8 | 5/16 | 18.1-34.2 | 13.3-25.3 | 25.1-44.0 | 18.5-32.5 | 4900 | 5000 | 175 | 6 57/64 | 1.14 | 2.51 | 26 | 1 1/32 | 9.5 | 3/8 | 0.40 | 14.0 |
| UA70MC | 8-10 | 5/16-3/8 | 20.5-38.9 | 15.1-28.7 | 28.5-50.0 | 21.0-37.0 | 5300 | 5700 | 187 | 7 23/64 | 1.24 | 2.73 | 26 | 1 1/32 | 9.5 | 3/8 | 0.45 | 15.8 |
| UA80MC | 10 | 3/8-1/2 | 30.0-50.0 | 22.2-37.0 | 40.0-60.0 | 29.6-44.4 | 5700 | 6000 | 195 | 7 43/64 | 1.55 | 3.41 | 28 | 1 7/64 | 9.5 | 3/8 | 0.48 | 16.8 |
| UA90MC | 10-12 | 3/8-1/2 | 32.8-62.2 | 24.2-46.0 | 45.7-80.0 | 33.8-59.2 | 5200 | 5500 | 203 | 7 63/64 | 1.7 | 3.74 | 28 | 1 7/64 | 12.7 | 1/2 | 0.53 | 18.6 |
| UA100MC | 12 | 1/2 | 36.9-70.0 | 27.3-51.8 | 51.4-90.0 | 38.0-66.6 | 4900 | 5200 | 215 | 8 15/32 | 2.05 | 4.51 | 30 | 1 3/16 | 12.7 | 1/2 | 0.55 | 19.3 |
| UA130MC | 14 | 9/16 | 53.4-101.0 | 39.5-74.7 | 74.2-130.0 | 54.9-96.2 | 4000 | 4500 | 233 | 9 11/64 | 2.8 | 6.16 | 36 | 1 27/64 | 12.7 | 1/2 | 0.73 | 25.6 |

Air Inlet size : NPT1/4" Air Hose size : 10mmx6.5mmx5m for UA40MC ~ 50MC 12mmx8.0mmx5m for UA60MC ~ 100MC 16mmx11.0mmx5m for UA130MC

SPECIFICATIONS (STRAIGHT TYPE) OK / NOK LED indicator equipped.

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

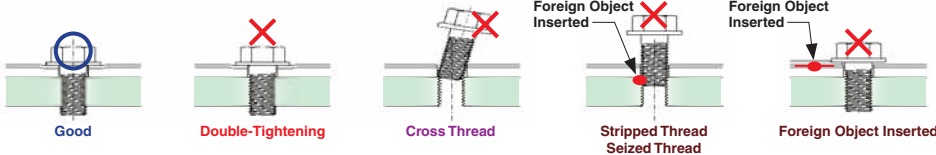
| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|----------|---------------------------------|----------|--------------|-----------|--------|-----------|--------------------------------|--------|---------------------------|---------|--|------|--------------------------------------|--------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | 0.5MPa | 0.6MPa | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UA40SMC | 6 | 1/4 | 5-11 | 3.7-8.1 | 7-13 | 5.2-9.6 | 3300 | 3600 | 246 | 9 11/16 | 1.22 | 2.68 | 26 | 1 1/32 | 9.5 | 3/8 | 0.20 | 7.0 |
| UA40SDMC | 6 | 1/4 | 4.5-9.5 | 3.3-7.0 | 5-12 | 3.7-8.9 | 3300 | 3600 | 246 | 9 11/16 | 1.22 | 2.68 | 26 | 1 1/32 | 6.35 | 1/4 | 0.20 | 7.0 |
| UA50SMC | 6-8 | 1/4-5/16 | 9-20 | 6.7-14.8 | 11-25 | 8.1-18.5 | 4100 | 4250 | 246 | 9 11/16 | 1.23 | 2.70 | 26 | 1 1/32 | 9.5 | 3/8 | 0.25 | 8.8 |
| UA50SDMC | 6-8 | 1/4-5/16 | 8-18 | 5.9-13.3 | 9-23 | 6.7-17.0 | 4100 | 4250 | 246 | 9 11/16 | 1.23 | 2.70 | 26 | 1 1/32 | 6.35 | 1/4 | 0.25 | 8.8 |
| UA60SMC | 8 | 5/16 | 16-30 | 11.8-22.2 | 18-38 | 13.3-28.1 | 4900 | 5000 | 252 | 9 61/64 | 1.30 | 2.86 | 26 | 1 1/32 | 9.5 | 3/8 | 0.40 | 14.0 |
| UA60SDMC | 8 | 5/16 | 14-27 | 10.4-20.0 | 16-34 | 11.8-25.2 | 4900 | 5000 | 252 | 9 61/64 | 1.30 | 2.86 | 26 | 1 1/32 | 6.35 | 1/4 | 0.40 | 14.0 |
| UA70SMC | 8-10 | 5/16-3/8 | 25-40 | 18.8-29.6 | 30-50 | 22.2-37.0 | 5300 | 5700 | 265 | 10 7/16 | 1.39 | 3.05 | 26 | 1 1/32 | 9.5 | 3/8 | 0.45 | 15.8 |

Air Inlet size : NPT1/4" Air Hose size : 10mmx6.5mmx5m for UA40SMC ~ 50SMC 12mmx8.0mmx5m for UA60SMC and UA70SMC

SUPER "INTELEC" SYSTEM UAAMC TOOLS

Uryu UAAMC series are capable of angle monitoring in addition to the torque control/monitoring from UA-MC series. It enables you to get double-hit, cross-thread, and so forth by angle monitoring.

PISTOL TYPE



Double-Tightening:

Detectable as the torque increases, while the free run angle lacks.

- Free Run Angle NG

Cross Thread:

Detectable as the fastening angle gets too high

- Angle NG

Stripped Thread/Seized Thread:

Detectable as the torque does not increase and the fastening angle gets too high

- Angle NG

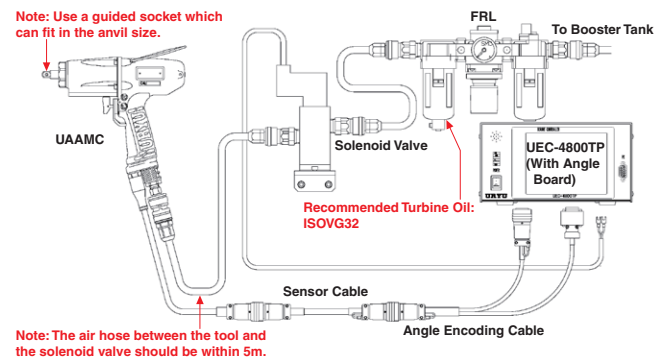
Foreign Object Inserted:

Detectable as the torque does not increase and the fastening angle gets too high

- Angle NG

The controller should have angle board and the UAAMC tool needs angle encoding cable to be used.

SYSTEM LAYOUT



SPECIFICATIONS

Recommended Air Pressure: 0.5MPa(72psi)-0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|----------|---------------------------------|----------|--------------|-----------|--------|-----------|--------------------------------|--------|---------------------------|----------|---|------|-----------------------------------|---------|------------------------|-----|-------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | | | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UA400AMC | 6 | 1/4 | 5-11 | 3.7-8.1 | 7-13 | 5.2-9.6 | 3300 | 3600 | 193 | 7 19/32 | 1.35 | 2.97 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.20 | 7.0 |
| UA500AMC | 6-8 | 1/4-5/16 | 9-20 | 6.6-14.8 | 11-25 | 8.1-18.4 | 4100 | 4250 | 193 | 7 19/32 | 1.35 | 2.97 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.25 | 8.8 |
| UA600AMC | 8 | 5/16 | 16-30 | 11.8-22.1 | 18-38 | 13.3-28.0 | 4900 | 5000 | 198.5 | 7 13/16 | 1.4 | 3.08 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.40 | 14.0 |
| UA700AMC | 8-10 | 5/16-3/8 | 25-40 | 18.4-29.5 | 30-50 | 22.1-36.9 | 5300 | 5700 | 207.5 | 8 11/64 | 1.5 | 3.3 | 28.5 | 1 1/8 | 9.5 | 3/8 | 0.45 | 15.8 |
| UA800AMC | 10 | 3/8 | 35-50 | 25.8-36.9 | 40-60 | 29.5-44.3 | 5600 | 6000 | 215.5 | 8 31/64 | 1.7 | 3.74 | 29.0 | 1 9/64 | 9.5 | 3/8 | 0.48 | 16.8 |
| UA900AMC | 10-12 | 3/8-1/2 | 35-65 | 25.8-47.9 | 40-80 | 29.5-59.0 | 5200 | 5500 | 232.5 | 9 5/32 | 2.2 | 4.84 | 30.0 | 1 3/16 | 12.7 | 1/2 | 0.53 | 18.6 |
| UA100AMC | 12 | 1/2 | 45-75 | 33.2-55.3 | 50-90 | 36.9-66.4 | 4900 | 5200 | 242.5 | 9 35/64 | 2.5 | 5.5 | 32.0 | 1 17/64 | 12.7 | 1/2 | 0.55 | 19.3 |
| UA130AMC | 14 | 4/7 | 70-110 | 51.6-81.1 | 85-130 | 62.7-95.9 | 4000 | 4500 | 263 | 10 23/64 | 3.3 | 7.26 | 38.0 | 1 1/2 | 12.7 | 1/2 | 0.73 | 25.6 |

Air Inlet size : NPT1/4" Air Hose size : 10mmx6.5mmx5m for UA400AMC and UA500AMC 12mmx8.0mmx5m for UA600AMC ~ UA100AMC 16mmx11.0mmx5m for UA130AMC

SUPER "INTELEC" SYSTEM MC & EC TOOLS



The **MC-series** combines the benefits of the ALPHA Series with the quality and reliability benefits of a Good or No Good judgement, based on torque, after each tightening. This is accomplished by incorporating brushless Magnetostrictive transducer, solenoid valve, electronic control unit, and indicator lights with ALPHA Series components. The **EC-Series** of URYU popular Oil-Pulse Tools are equipped with strain-gauged torque transducer on Oil-Pulse Unit and are matched with the Electronic Control Unit, model UEC-4800.



SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|--------------|---------------------------------|----------|--------------|-------------|---------|-------------|--------------------------------|--------|---------------------------|----------|---|------|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | 0.5MPa | 0.6MPa | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| ALPHA-60MC | 6 | 1/4 | 9-15 | 6.5-10.8 | 10-20 | 7.2-14.4 | 6800 | 7000 | 215 | 8 15/32 | 1.40 | 3.1 | 25.5 | 1 | 9.5 | 3/8 | 0.25 | 8.8 |
| ALPHA-60DMC | 6 | 1/4 | 9-15 | 6.5-10.8 | 10-20 | 7.2-14.4 | 6800 | 7000 | 215 | 8 15/32 | 1.40 | 3.1 | 25.5 | 1 | 6.35 | 1/4 | 0.25 | 8.8 |
| ALPHA-60SMC* | 6 | 1/4 | 9-15 | 6.5-10.8 | 10-17 | 7.2-14.4 | 6000 | 6300 | 280 | 11 1/32 | 1.40 | 2.6 | 25.5 | 1 | 9.5 | 3/8 | 0.25 | 8.8 |
| ALPHA-70MC | 8 | 5/16 | 12.5-25 | 8.6-18.0 | 15-30 | 10.8-21.6 | 6800 | 7300 | 215 | 8 15/32 | 1.43 | 3.1 | 25.5 | 1 | 9.5 | 3/8 | 0.25 | 8.8 |
| ALPHA-80MC | 8 | 5/16 | 16-30 | 11.5-21.6 | 20-40 | 14.4-28.9 | 6800 | 7000 | 231 | 9 3/32 | 1.50 | 3.3 | 25.5 | 1 | 9.5 | 3/8 | 0.45 | 15.8 |
| ALPHA-90MC | 8-10 | 5/16-3/8 | 20-40 | 14.4-28.9 | 30-47 | 21.6-33.9 | 6000 | 6500 | 231 | 9 3/32 | 1.50 | 3.3 | 25.5 | 1 7/64 | 9.5 | 3/8 | 0.45 | 15.8 |
| ALPHA-101MC | 10 | 3/8 | 34-58 | 24.5-42.6 | 38-70 | 27.4-51.3 | 6000 | 6200 | 243 | 9 9/16 | 2.10 | 4.6 | 28.0 | 1 3/16 | 12.7 | 1/2 | 0.50 | 17.6 |
| ALPHA-110MC | 12 | 3/8-1/2 | 45-75 | 32.5-54.9 | 55-100 | 40.5-72.3 | 4500 | 5000 | 250 | 9 27/32 | 2.50 | 5.6 | 30.0 | 1 27/64 | 12.7 | 1/2 | 0.65 | 22.9 |
| ALPHA-130MC | 14 | 9/16 | 80-130 | 58.5-95.4 | 90-150 | 65.8-109.9 | 3200 | 3400 | 276 | 10 55/64 | 3.50 | 7.7 | 36.0 | 1 21/32 | 12.7 | 1/2 | 0.65 | 22.9 |
| ALPHA-140MC | 16 | 5/8 | 140-200 | 103.4-147.6 | 150-220 | 110.7-162.0 | 3300 | 3500 | 295 | 11 39/64 | 4.63 | 10.2 | 40.0 | 1 37/64 | 19.0 | 3/4 | 0.80 | 28.3 |
| UXR-1820MC | 18 | 3/4 | 140-220 | 102.7-162.0 | 160-250 | 117.8-183.7 | 4400 | 4600 | 322 | 12 43/64 | 5.50 | 12.3 | 42.0 | 1 21/32 | 19.0 | 3/4 | 0.70 | 24.7 |
| UXR-2000MC | 20 | 3/4 | 200-350 | 147.6-258.2 | 250-400 | 184.4-295.1 | 4600 | 4800 | 355 | 13 31/32 | 8.00 | 17.6 | 47.0 | 1 21/32 | 19.0 | 3/4 | 0.95 | 33.6 |
| UXR-2400SMC | 24 | 7/8 | 300-550 | 221.3-405.8 | 350-600 | 258.2-442.7 | 3100 | 3300 | 457 | 17 63/64 | 12.5 | 27.6 | 55.0 | 1 11/64 | 25.4 | 1 | 1.00 | 35.3 |

*External Solenoid Valve is required.
Air Inlet size : NPT1/4" for ALPHA-60MC~ALPHA-140MC NPT3/8" for UXR-1820MC & UXR-2000MC NPT1/2" for UXR-2400MC
Air Hose size : 9.5mm (3/8") for ALPHA-60MC~ALPHA-140MC 12.7mm (1/2") for UXR-1820MC~UXR-2400MC
Inside Trigger is available for UXR-2400SMC

SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | | | Free Speed (Approx.) rpm | | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|------------|---------------------------------|------|--------------|------------|--------|------------|--------------------------------|--------|---------------------------|----------|---|-------|--------------------------------------|---------|------------------------------|-----|-------------------------------|----------------------|
| | | | 0.5MPa | | 0.6MPa | | 0.5MPa | 0.6MPa | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | 0.5MPa | 0.6MPa | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| U-50EC | 6 | 1/4 | 4-10 | 2.9-7.4 | 5-11 | 3.7-8.1 | 2000 | 2100 | 195 | 7 43/64 | 1.50 | 3.31 | 24.0 | 1 1/32 | 9.5 | 3/8 | 0.25 | 8.8 |
| U-50DEC | 6 | 1/4 | 4-10 | 2.9-7.4 | 5-11 | 3.7-8.1 | 2000 | 2100 | 201 | 7 29/32 | 1.50 | 3.31 | 24.0 | 1 1/32 | 6.35 | 1/4 | 0.25 | 8.8 |
| U-60EC | 6 | 1/4 | 10-25 | 7.4-18.4 | 15-30 | 11.1-22.1 | 1800 | 1900 | 193 | 7 19/32 | 1.57 | 3.46 | 27.0 | 1 1/16 | 9.5 | 3/8 | 0.35 | 12.3 |
| U-60DEC | 6 | 1/4 | 10-25 | 7.4-18.4 | 15-30 | 11.1-22.1 | 1800 | 1900 | 198 | 7 51/64 | 1.57 | 3.46 | 27.0 | 1 1/16 | 9.5 | 3/8 | 0.35 | 12.3 |
| UX-80EC | 8 | 5/16 | 15-40 | 18.4-29.5 | 20-45 | 14.7-33.2 | 1700 | 1800 | 196 | 7 23/32 | 1.80 | 3.97 | 30.0 | 1 3/16 | 9.5 | 3/8 | 0.45 | 15.8 |
| U-100EC | 10 | 3/8 | 40-70 | 29.5-51.6 | 50-80 | 36.9-59.0 | 1500 | 1600 | 233 | 9 11/64 | 2.80 | 6.17 | 33.0 | 1 19/64 | 12.7 | 1/2 | 0.65 | 22.9 |
| UX-120EC** | 12 | 1/2 | - | - | - | - | - | - | 255 | 10 3/64 | 3.90 | 8.60 | 36.0 | 1 27/64 | 12.7 | 1/2 | 0.80 | 28.2 |
| UX-130EC | 12 | 1/2 | 80-150 | 59.0-110.2 | 90-170 | 66.1-125.4 | 1050 | 1250 | 273 | 10 3/4 | 4.70 | 10.37 | 40.0 | 1 9/16 | 12.7 | 1/2 | 1.00 | 35.0 |
| U-50SEC* | 6 | 1/4 | 4-10 | 2.9-7.4 | 5-11 | 3.7-8.1 | 2000 | 2100 | 280 | 11 1/32 | 1.55 | 3.42 | 21.0 | 53/64 | 9.5 | 3/8 | 0.22 | 7.7 |
| U-50SDEC* | 6 | 1/4 | 4-10 | 2.9-7.4 | 5-11 | 3.7-8.1 | 2000 | 2100 | 288 | 11 11/32 | 1.55 | 3.42 | 21.0 | 53/64 | 6.35 | 1/4 | 0.22 | 7.7 |
| U-60SEC | 6 | 1/4 | 10-20 | 7.4-19.1 | 15-25 | 11.1-18.4 | 1800 | 1900 | 305 | 8 5/64 | 2.00 | 4.41 | 27.0 | 1 1/16 | 9.5 | 3/8 | 0.35 | 12.3 |

*External Solenoid Valve is required.
**UX-120EC has to be used at about 0.35MPa (50psi) - 0.40MPa (57psi) The Torque Range : 65 - 120Nm The Free Speed : 900 r.p.m.
Air Inlet Size : NPT1/4"
Air Hose Size : 9.5mm (3/8")

BATTERY OIL-PULSE TOOLS

The pulse unit of UDBP series is connected to the motor unit directly, not through a gear train. This has reduced the noise, vibration, and reaction force against the operator. The built-in brushless IPM motor has greatly prolonged the motor longevity, and enables you to tighten more fasteners than the conventional motor per battery charge. These UDBP-TA / A Series equip auto-relief function which contributes to improved accuracy, efficiency and durability.



The lithium-ion battery is used for UDBP series. Its longevity is not affected by repeated recharging after being only partially discharged. The battery power indicator provides you with a visual indication to charge the lithium-ion battery.

- = enough charge
- = low charge(recharging needed)
- = very low charge (immediate recharging needed)

The slide design battery provides the high-energy efficiency in power.

Tightening numbers per full charge

| Model | Torque(Nm) | Tester & Bolt Size | Battery Model | Tightening Numbers (Approx.) | |
|--------------|------------|--------------------|---------------|------------------------------|-----|
| UDBP-TA40 | 7 | UFT-6(M6) | UB111Li | Hard Joint | 840 |
| | | | | Soft Joint | 270 |
| UDBP-TA50 | 11 | UFT-10(M8) | UB111Li | Hard Joint | 580 |
| | | | | Soft Joint | 190 |
| UDBP-TA50(P) | 12.5 | UFT-10(M8) | UB111Li | Hard Joint | 580 |
| | | | | Soft Joint | 190 |
| UDBP-TA60 | 24 | UFT-10(M10) | UB222Li | Hard Joint | 500 |
| | | | | Soft Joint | 170 |
| UDBP-TA60(P) | 26 | UFT-10(M10) | UB222Li | Hard Joint | 500 |
| | | | | Soft Joint | 170 |
| UDBP-TA70(P) | 40 | UFT-16(M12) | UB333Li | Hard Joint | 600 |
| | | | | Soft Joint | 210 |

*Torque is set at Hard Joint. Numbers of tightening per charge varies depending on torque level, fastener length and application.

Specifications (Shut off Type)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | Free Speed (Approx.) rpm | Overall Length less Socket or Bit (Approx.) | | Weight less Socket or Bit | | | | From Center to Outside (Approx.) | | Sq. Drive or Hex. Size | | Battery Voltage (Capacity) | Battery Model Number |
|--------------|------------------------------|------------|--------------|-----------|--------------------------|---|---------|---------------------------|------|-----------------|------|----------------------------------|--------|------------------------|---------|----------------------------|----------------------|
| | mm | in | Nm | ft-lbs | | mm | in | with battery | | with no battery | | mm | in | mm | in | | |
| | | | | | | | | kg | lb | kg | lb | | | | | | |
| UDBP-TA40 | 5 | No.10 | 4.5-8 | 3.3-5.9 | 4800 | 208 | 8 3/16 | 1.4 | 3.08 | 1.11 | 2.44 | 29.5 | 1 5/32 | 6.35Hex | 1/4Hex | 11.1V(1.5Ah) | UB111Li |
| UDBP-TA40(P) | 5 | No.10 | 4.5-8 | 3.3-5.9 | 4800 | 205 | 8 5/64 | 1.4 | 3.08 | 1.11 | 2.44 | 29.5 | 1 5/32 | 9.5 sq. | 3/8 sq. | 11.1V(1.5Ah) | UB111Li |
| UDBP-TA50 | 6 - 8 | 1/4-5/16 | 6.5-13 | 4.8-9.6 | 4800 | 208 | 8 3/16 | 1.4 | 3.08 | 1.11 | 2.44 | 29.5 | 1 5/32 | 6.35Hex | 1/4Hex | 11.1V(1.5Ah) | UB111Li |
| UDBP-TA50(P) | 6 - 8 | 1/4-5/16 | 7-15 | 5.1-11.1 | 4800 | 205 | 8 5/64 | 1.4 | 3.08 | 1.11 | 2.44 | 29.5 | 1 5/32 | 9.5 sq. | 3/8 sq. | 11.1V(1.5Ah) | UB111Li |
| UDBP-TA60 | 8 | 5/16 | 13-26 | 9.6-19.2 | 4800 | 223 | 8 25/32 | 1.7 | 3.74 | 1.25 | 2.75 | 29.5 | 1 5/32 | 6.35Hex | 1/4Hex | 22.2V(1.5Ah) | UB222Li |
| UDBP-TA60(P) | 8 | 5/16 | 15-28 | 11.1-20.7 | 4800 | 220 | 8 11/16 | 1.7 | 3.74 | 1.25 | 2.75 | 29.5 | 1 5/32 | 9.5 sq. | 3/8 sq. | 22.2V(1.5Ah) | UB222Li |
| UDBP-TA70(P) | 8 - 10 | 5/16-13/32 | 26-47 | 19.2-34.7 | 4800 | 234 | 9 7/32 | 2.0 | 4.4 | 1.39 | 3.06 | 29.5 | 1 5/32 | 9.5 sq. | 3/8 sq. | 33.3V(1.5Ah) | UB333Li |

Specifications (Non Shut off Type)

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | Free Speed (Approx.) rpm | Overall Length less Socket or Bit (Approx.) | | Weight less Socket or Bit | | | | From Center to Outside (Approx.) | | Sq. Drive or Hex. Size | | Battery Voltage (Capacity) | Battery Model Number |
|-------------|------------------------------|------------|--------------|-----------|--------------------------|---|---------|---------------------------|------|-----------------|------|----------------------------------|--------|------------------------|---------|----------------------------|----------------------|
| | mm | in | Nm | ft-lbs | | mm | in | with battery | | with no battery | | mm | in | mm | in | | |
| | | | | | | | | kg | lb | kg | lb | | | | | | |
| UDBP-A50 | 6-8 | 1/4-5/16 | 8-17 | 5.9-12.6 | 5300 | 203 | 7 63/64 | 1.4 | 3.08 | 1.11 | 2.44 | 29.5 | 1 5/32 | 6.35Hex | 1/4Hex | 11.1V(1.5Ah) | UB111Li |
| UDBP-A50(P) | 6-8 | 1/4-5/16 | 11-20 | 8.1-14.8 | 5300 | 200 | 7 7/8 | 1.4 | 3.08 | 1.11 | 2.44 | 29.5 | 1 5/32 | 9.5 sq. | 3/8 sq. | 11.1V(1.5Ah) | UB111Li |
| UDBP-A60 | 8-10 | 5/16-13/32 | 17-30 | 12.6-22.2 | 4800 | 218 | 8 37/64 | 1.7 | 3.74 | 1.25 | 2.75 | 29.5 | 1 5/32 | 6.35Hex | 1/4Hex | 22.2V(1.5Ah) | UB222Li |
| UDBP-A60(P) | 8-10 | 5/16-13/32 | 20-32 | 14.8-23.7 | 4800 | 215 | 8 15/32 | 1.7 | 3.74 | 1.25 | 2.75 | 29.5 | 1 5/32 | 9.5 sq. | 3/8 sq. | 22.2V(1.5Ah) | UB222Li |

Battery

| Model Number | UB111Li | UB222Li | UB333Li |
|------------------|---------|---------|---------|
| Voltage | 11.1V | 22.2V | 33.3V |
| Capacity | 1.5Ah | 1.5Ah | 1.5Ah |
| Weight (Approx.) | 0.29Kg | 0.45Kg | 0.61Kg |



Charger

| Model Number | UBC |
|-----------------------------|------------------|
| Power Supply | AC100V - AC240V* |
| Power | 100V: 225VA |
| Consumption | 240V: 295VA |
| Weight (Approx.) | 1.6kg |
| Operating Temperature Range | 5-40 |



Charging Time

| Battery Capacity | Time (Approx.) |
|------------------|----------------|
| 80% | 40 minutes |
| 100% | 64 minutes |

*Use the power cable which URYU ships with the charger. The tool, charger, and 2 sets of batteries are also available as a set.

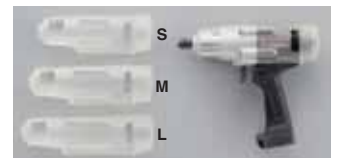
Optional Battery Protectors

| | Code # | Used for |
|---|-----------|----------|
| S | 863-976-1 | UB111Li |
| M | 863-977-1 | UB222Li |
| L | 863-978-1 | UB333Li |



Optional Tool Jackets

| | Code # | Used for |
|---|-----------|--------------------|
| S | 863-964-1 | UDBP-TA,A50 series |
| M | 863-965-1 | UDBP-TA,A60 series |
| L | 863-966-1 | UDBP-TA70 series |



BATTERY OIL-PULSE TOOLS

UBP-T series 12V Battery Powered Oil-Pulse Tools offer convenient cordless operation without dragging tool hoses. The characteristics of the shut-off torque mechanism eliminates the operator influence and increases the torque accuracy for continuous heavy production.

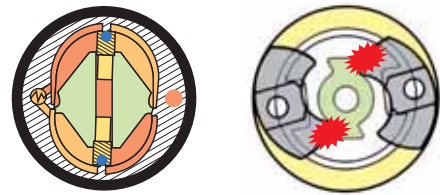


UBP SERIES

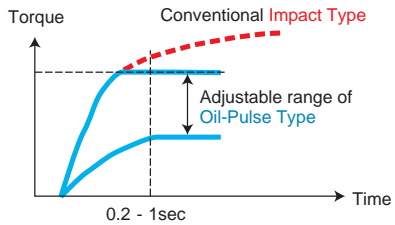
Offer a healthy work environment featuring operator comfort while reducing fatigue. The Hydraulic Pulse Action of Battery Oil-Pulse tools minimizes noise & vibration generated by the structural metal-to-metal contact of Battery Impact Types, eliminating most wearing parts thus producing cost savings in addition to easy torque adjustment.

DIFFERENCE OF FASTENING MECHANISM

(OIL-PULSE TYPE) (IMPACT TYPE)



TORQUE CHART

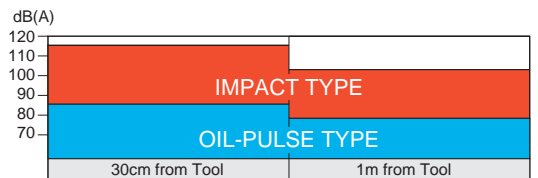


Recommended Battery-Charger

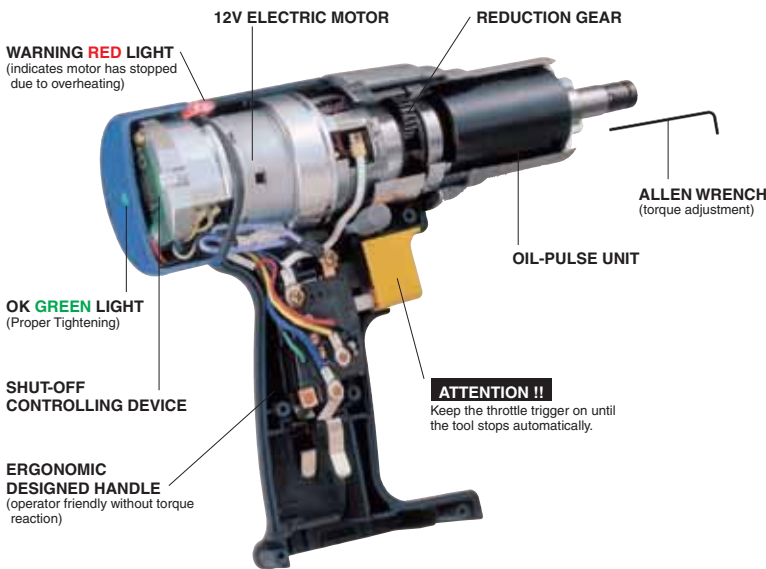
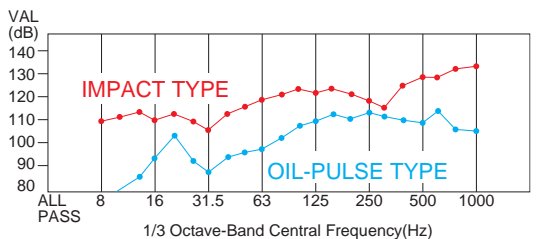
| Battery Pack (Panasonic) | Battery Charger |
|--------------------------|-------------------------|
| EY9200B (DC12V) | EY0230B (AC110V ~ 230V) |

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

NOISE LEVEL



VIBRATION LEVEL



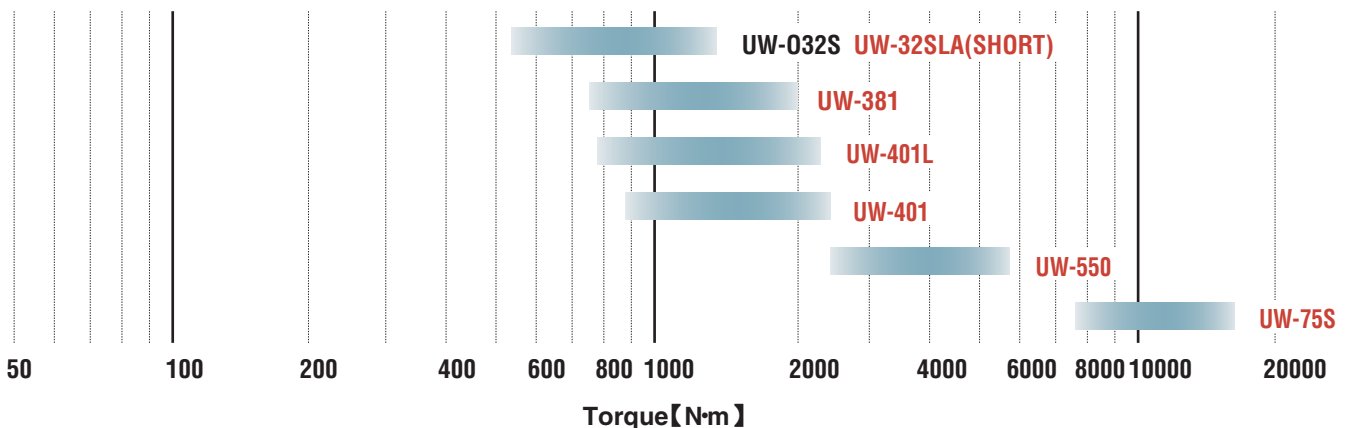
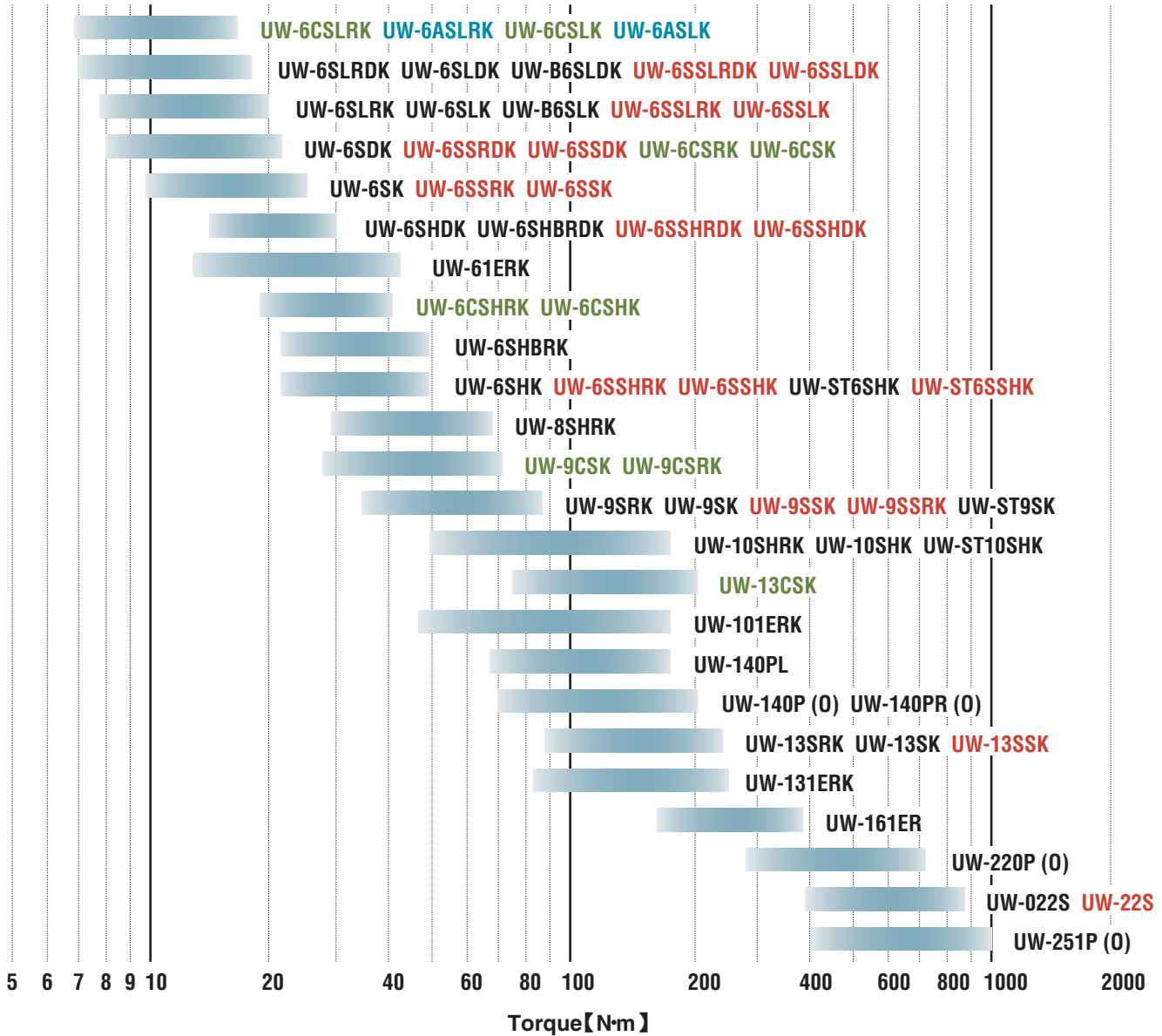
SPECIFICATIONS

| Model | Capacity (Nominal Bolt Size) | | Torque Range | | Free Speed (Approx.) rpm | Overall Length (about) | | Weight less Battery (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Number of Fastening per charge (about) | |
|------------|------------------------------|----------|--------------|-----------|--------------------------|------------------------|---------|-----------------------------|------|--------------------------------|--------|------------------------|-----|--|------------|
| | mm | in | Nm | ft-lbs | | mm | in | kg | lb | mm | in | mm | in | Hard Joint | Soft Joint |
| UBP-T40 | 6 | 1/4 | 6.5-11 | 4.8-8.1 | 2,200 | 210 | 8 17/64 | 1.2 | 2.64 | 28.0 | 1 7/64 | 6.35 | 1/4 | 420 | 170 |
| UBP-T50 | 6-8 | 1/4-5/16 | 10-23 | 7.4-17.0 | 2,200 | 210 | 8 17/64 | 1.2 | 2.64 | 28.0 | 1 7/64 | 6.35 | 1/4 | 480 | 210 |
| UBP-T50(P) | 6-8 | 1/4-5/16 | 10-23 | 7.4-17.0 | 2,200 | 207 | 8 5/32 | 1.2 | 2.64 | 28.0 | 1 7/64 | 9.5 | 3/8 | 480 | 210 |
| UBP-T60 | 8 | 5/16 | 14-26 | 10.4-19.2 | 2,200 | 215 | 8 15/32 | 1.3 | 2.85 | 28.0 | 1 7/64 | 6.35 | 1/4 | 470 | 190 |
| 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 | 190 |
| UBP-65 | 8 | 5/16 | 15-30 | 11.1-22.2 | 2,200 | 193 | 7 19/32 | 1.2 | 2.64 | 28.0 | 1 7/64 | 6.35 | 1/4 | 510 | 150 |
| 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 | 510 | 150 |

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

RECOMMENDED TORQUE CHART OF THE IMPACT WRENCHES

Fastening force of the impact wrenches changes in accordance to the fastening time and the bolt size. This table shows various common fastening torque. Please use this table as just guide line when selecting the model.



IMPACT WRENCHES

Optimal Torque of Bolt

The optimal torque of bolt is based on the clamp force achieved. The clamp force applied to bolt should not exceed 70% of the proof load of bolt and the optimal torque applied to bolt should be as much as 60% of the proof load. See the following equation to calculate the optimal torque.

$$T = k \cdot D \cdot N \quad \text{Torque} = \text{Coefficient of friction} \times \text{Nominal Diameter} \times \text{Clamp Force (Tension)}$$

| Property Class | 4.8 | | 5.8 | | 6.8 | | 8.8 | | 10.9 | | 12.9 | |
|------------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|-------------|----------------|
| Nominal Diameter | Torque (Nm) | Proof Load (N) | Torque (Nm) | Proof Load (N) | Torque (Nm) | Proof Load (N) | Torque (Nm) | Proof Load (N) | Torque (Nm) | Proof Load (N) | Torque (Nm) | Proof Load (N) |
| M3 | 0.6 | 1560 | 0.8 | 1910 | 0.9 | 2210 | 1.2 | 2920 | 1.7 | 4180 | 2.0 | 4880 |
| M4 | 1.4 | 2720 | 1.8 | 3340 | 2.0 | 3860 | 2.7 | 5100 | 4.0 | 7290 | 4.6 | 8520 |
| M5 | 2.9 | 4400 | 3.6 | 5400 | 4.1 | 6250 | 5.5 | 8230 | 8.0 | 11800 | 9.4 | 13800 |
| M6 | 4.9 | 6230 | 6.1 | 7640 | 7.0 | 8840 | 9.3 | 11600 | 13.6 | 16700 | 15.9 | 19500 |
| M8 | 12.0 | 11400 | 14.8 | 13900 | 16.9 | 16100 | 22.5 | 21200 | 33.0 | 30400 | 38.7 | 35500 |
| M10 | 23.7 | 18000 | 29.2 | 22000 | 33.4 | 25500 | 44.6 | 33700 | 65.4 | 48100 | 76.6 | 56300 |
| M12 | 41.3 | 26100 | 51.0 | 32000 | 58.3 | 37100 | 77.7 | 48900 | 114.1 | 70000 | 133.5 | 81800 |
| M14 | 65.7 | 35600 | 81.2 | 43700 | 92.7 | 50600 | 123.7 | 66700 | 181.6 | 95500 | 212.5 | 112000 |
| M16 | 102.5 | 48700 | 126.6 | 59700 | 144.7 | 69100 | 192.9 | 91000 | 283.4 | 130000 | 331.6 | 152000 |
| M18 | 141.0 | 59500 | 174.2 | 73000 | 199.1 | 84500 | 273.7 | 115000 | 389.8 | 159000 | 456.2 | 186000 |
| M20 | 199.9 | 76000 | 247.0 | 93100 | 282.2 | 108000 | 388.1 | 147000 | 552.7 | 203000 | 646.8 | 238000 |
| M22 | 272.0 | 93900 | 336.0 | 115000 | 384.0 | 133000 | 528.0 | 182000 | 751.9 | 252000 | 879.9 | 294000 |
| M24 | 345.7 | 109000 | 427.0 | 134000 | 488.0 | 155000 | 671.0 | 212000 | 955.7 | 293000 | 1118.3 | 342000 |
| M27 | 505.6 | 142000 | 624.6 | 174000 | 713.8 | 202000 | 981.5 | 275000 | 1397.9 | 381000 | 1635.9 | 445000 |
| M30 | 686.7 | 174000 | 848.2 | 213000 | 969.4 | 247000 | 1332.9 | 337000 | 1898.4 | 466000 | 2221.6 | 544000 |
| M33 | 934.4 | 215000 | 1154.3 | 264000 | 1319.2 | 305000 | 1813.8 | 416000 | 2583.4 | 576000 | 3023.1 | 673000 |

The torque values listed are based on the clamp force (tension) applied to hexagon metric coarse thread bolt and coefficient of friction 0.2 (guidance only). Select the best tool for your application.

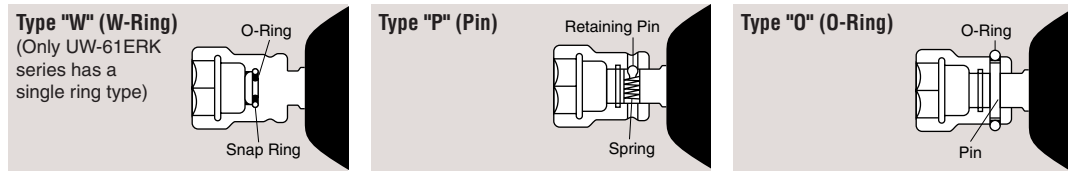
Model name of Impact Wrenches

| | | | | | |
|---------|----|---|--|------------------|---------------------------------------|
| Example | UW | - | 6SH | L | K |
| | | | 6SH (pistol grip for 6mm bolt*) | L (long anvil) | K (light weight) |
| | | | 6SSH (straight handle) | R (rear exhaust) | DK (driver type anvil • light weight) |
| | | | 6CSH (angle head) | | |
| | | | 6AS (45 degree angle head) | | |
| | | | ST (for stud bolt) | | |
| | | | P (pistol grip only for UW-140 • 220 • 381 series) | | |

*Exception: UW-140 series =14mm bolt, UW-220 series =22mm, UW-381 series=38mm, UW-401 series=40mm and UW-550 = 55 mm

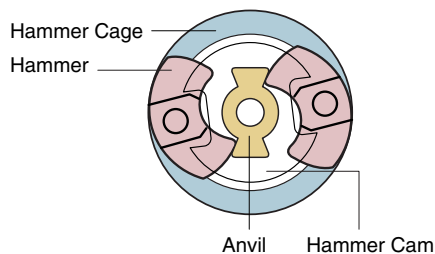
Socket Retaining Methods

Please specify the type of Anvil when ordering.



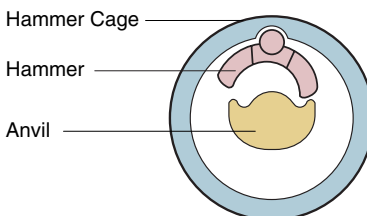
Double-Hammer mechanism

Powerful & fast assembly for highest productivity with well-balanced hammer mechanism and less torque reaction to operator. Recommended for general high-volume assembly such as motor vehicles, appliances, machinery and so forth.



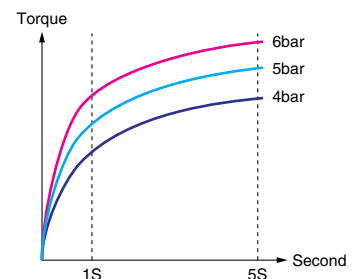
Swing-Hammer mechanism

Powerful & durable impacting mechanism with one piece Hammer-Hammer pin. Recommended to steel erection, refineries, mines, heavy motor vehicle industries and etc. (UW-140P, 220P, 251P, and 381 series)



TORQUE CHART

To avoid excess wear of the parts, the tightening time is recommended not to exceed 5 seconds.



IMPACT WRENCHES

The widest range of URYU Impact Wrenches offer fast, powerful and economical operation in high-volume heavy assembly applications such as Cars, Trucks, Tractors, Appliances, Construction, Machinery and so forth.

PISTOL TYPE

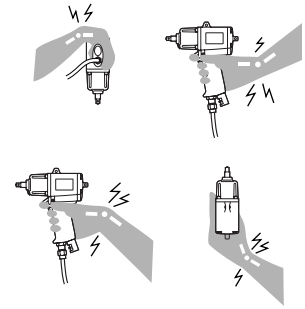


WARNING

Repetitive work motions or vibration can cause injury to hands and arms such as Carpal Tunnel Syndrome.

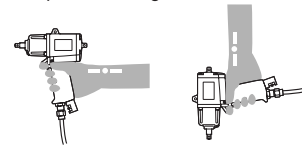
(BAD POSTURE)

Avoid repeated bending of wrists and hands.



(GOOD POSTURE)

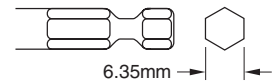
Keep wrists straight.



Front exhaust type (model which does not have "R" in model name.)

Quick-change driver anvil

Pull the sleeve and insert or take off the bit. Please add "D" to each model name like UW-6SDK when ordering.



SPECIFICATIONS

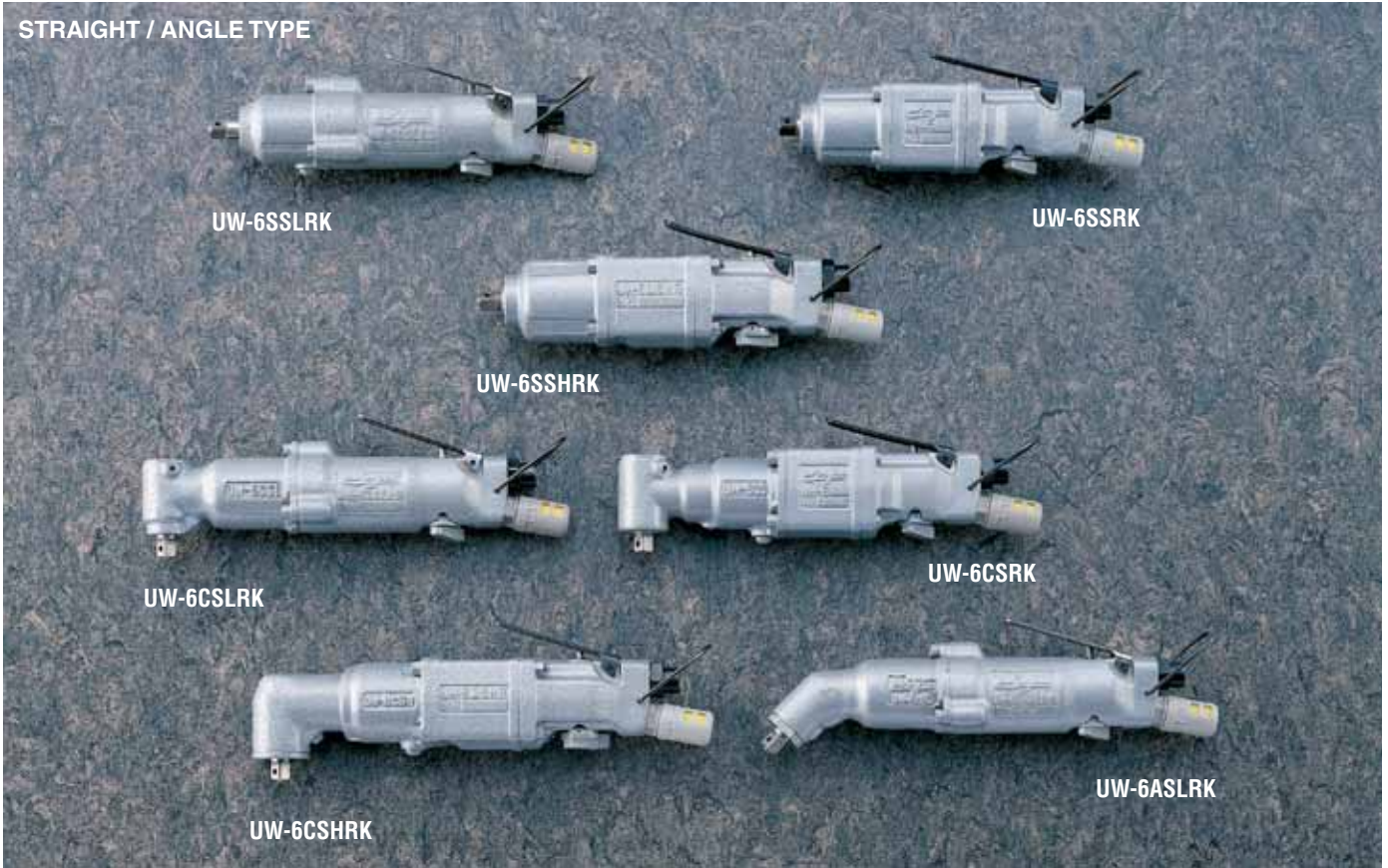
Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Free Speed (about) | Overall Length less Socket or Bit (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|-----------|---------------------------------|------|--------------------------|---|---------|--|------|--------------------------------------|--------|------------------------------|-----|-------------------------------|----------------------|
| | mm | in | | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UW-6SLRK | 6 | 1/4 | 8500 | 175 | 6 57/64 | 0.97 | 2.13 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.35 | 12.4 |
| UW-6SHBRK | 8 | 5/16 | 7300 | 154 | 6 1/16 | 1.36 | 2.99 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.35 | 12.4 |
| UW-6SLK | 6 | 1/4 | 8500 | 175 | 6 57/64 | 0.97 | 2.13 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-B6SLK | 6 | 1/4 | 8500 | 166 | 6 17/32 | 0.97 | 2.13 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6SK | 6 | 1/4 | 7500 | 170 | 6 11/16 | 1.22 | 2.68 | 27.5 | 1 5/64 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6SAK | 6 | 1/4 | 7500 | 134 | 5 9/32 | 1.10 | 2.47 | 27.5 | 1 5/64 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6SHK | 8 | 5/16 | 7500 | 175 | 6 57/64 | 1.41 | 3.10 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.35 | 12.4 |

Air Hose Size (Inside Diameter) : 9.5mm (3/8")
Air Inlet Thread (Pipe Tap) : NPT1/4"

IMPACT WRENCHES

STRAIGHT / ANGLE TYPE



| Head Sizes | MODEL | C | | H | |
|------------|-----------|------|-------|------|---------|
| | | mm | in | mm | in |
| | UW-6CSLRK | 13.5 | 17/32 | 59.5 | 2 11/32 |
| | UW-6CSRK | 15.0 | 19/32 | 60.0 | 2 23/64 |
| | UW-6CSHRK | 17.5 | 11/16 | 65.0 | 2 9/16 |
| | UW-6CSLK | 13.5 | 17/32 | 59.5 | 2 11/32 |
| | UW-6CSK | 15.0 | 19/32 | 60.0 | 2 23/64 |
| | UW-6CSHK | 17.5 | 11/16 | 65.0 | 2 9/16 |

SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Free Speed (about) | Overall Length Socket or Bit (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Sq. Drive or Hex. Size | | Average Air Consumption | |
|-----------|---------------------------------|------|--------------------------|---|----------|--|------|--------------------------------------|--------|------------------------------|-----|-------------------------------|----------------------|
| | mm | in | | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UW-6SSLRK | 6 | 1/4 | 8500 | 239 | 9 13/32 | 0.87 | 1.91 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6SSRK | 6 | 1/4 | 7500 | 225 | 8 55/64 | 0.97 | 2.13 | 29.5 | 1 5/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6SSHRK | 8 | 5/16 | 7300 | 249 | 9 51/64 | 1.26 | 2.77 | 27.5 | 1 3/32 | 9.5 | 3/8 | 0.35 | 12.4 |
| UW-6SSLK | 6 | 1/4 | 8500 | 197 | 7 3/4 | 0.87 | 1.91 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6SSK | 6 | 1/4 | 7500 | 185 | 7 9/32 | 0.97 | 2.13 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6SSHK | 8 | 5/16 | 7500 | 205 | 8 5/64 | 1.21 | 2.66 | 27.5 | 1 5/64 | 9.5 | 3/8 | 0.35 | 12.4 |
| UW-6CSLRK | 6 | 1/4 | 8000 | 258 | 10 5/32 | 1.17 | 2.57 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6CSRK | 6 | 1/4 | 7300 | 257 | 10 1/8 | 1.42 | 3.12 | 29.5 | 1 5/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6CSHRK | 8 | 5/16 | 7300 | 282 | 11 7/64 | 1.71 | 3.76 | 27.5 | 1 5/64 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6ASLRK | 6 | 1/4 | 6500 | 277 | 10 29/32 | 1.14 | 2.50 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6CSLK | 6 | 1/4 | 8000 | 217 | 8 35/64 | 1.17 | 2.57 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6CSK | 6 | 1/4 | 7500 | 218 | 8 37/64 | 1.42 | 3.12 | 28.0 | 1 7/64 | 9.5 | 3/8 | 0.30 | 10.5 |
| UW-6CSHK | 8 | 5/16 | 7500 | 238 | 9 3/8 | 1.71 | 3.76 | 27.5 | 1 5/64 | 9.5 | 3/8 | 0.35 | 12.4 |
| UW-6ASLK | 6 | 1/4 | 6500 | 235 | 9 1/4 | 1.14 | 2.50 | 31.0 | 1 7/32 | 9.5 | 3/8 | 0.30 | 10.5 |

Air Hose Size (Inside Diameter) : 9.5mm (3/8")
Air Inlet Thread (Pipe Tap) : NPT1/4"

IMPACT WRENCHES



Built-in AIR REGULATOR

Set "4" at the arrow mark for strongest and "1" for weakest.



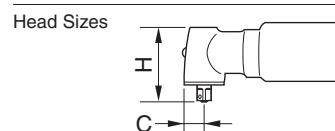
SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Free Speed (about) | Overall Length less Socket (about) | | Weight less Socket (about) | | From Center to Outside (about) | | Sq. Drive Shank | | Average Air Consumption | |
|-----------|------------------------------|------|--------------------|------------------------------------|---------|----------------------------|------|--------------------------------|---------|-----------------|-----|-------------------------|---------------------|
| | mm | in | | rpm | mm | in | kg | lb | mm | in | mm | in | m ³ /min |
| UW-61ERK | 8 | 5/16 | 7300 | 150 | 5 29/32 | 1.51 | 3.32 | 29.5 | 1 5/32 | 9.5 | 3/8 | 0.35 | 12.4 |
| UW-101ERK | 10 | 3/8 | 5500 | 179 | 7 3/64 | 2.27 | 4.99 | 36.0 | 1 27/64 | 12.7 | 1/2 | 0.45 | 16.0 |
| UW-131ERK | 13 | 1/2 | 5500 | 205 | 8 5/64 | 2.97 | 6.53 | 37.5 | 1 15/32 | 12.7 | 1/2 | 0.55 | 19.4 |
| UW-161ER | 16 | 5/8 | 3800 | 217 | 8 35/64 | 4.10 | 9.00 | 41.5 | 1 41/64 | 19.0 | 3/4 | 0.65 | 23.0 |

Air Hose Size (Inside Diameter) : 12.7mm (1/2") for UW-161ER 9.5mm (3/8") for UW-61ERK, 101ERK & 131ERK series

Air Inlet Thread (Pipe Tap) : NPT 3/8" for 161ER NPT 1/4" for UW-61ERK, 101ERK & 131ERK series



| MODEL | C | | H | |
|------------|------|--------|-------|---------|
| | mm | in | mm | in |
| UW-9CS(R)K | 22.0 | 7/8 | 85.0 | 3 11/32 |
| UW-13CSK | 26.0 | 1 1/32 | 102.0 | 4 7/32 |

SPECIFICATIONS

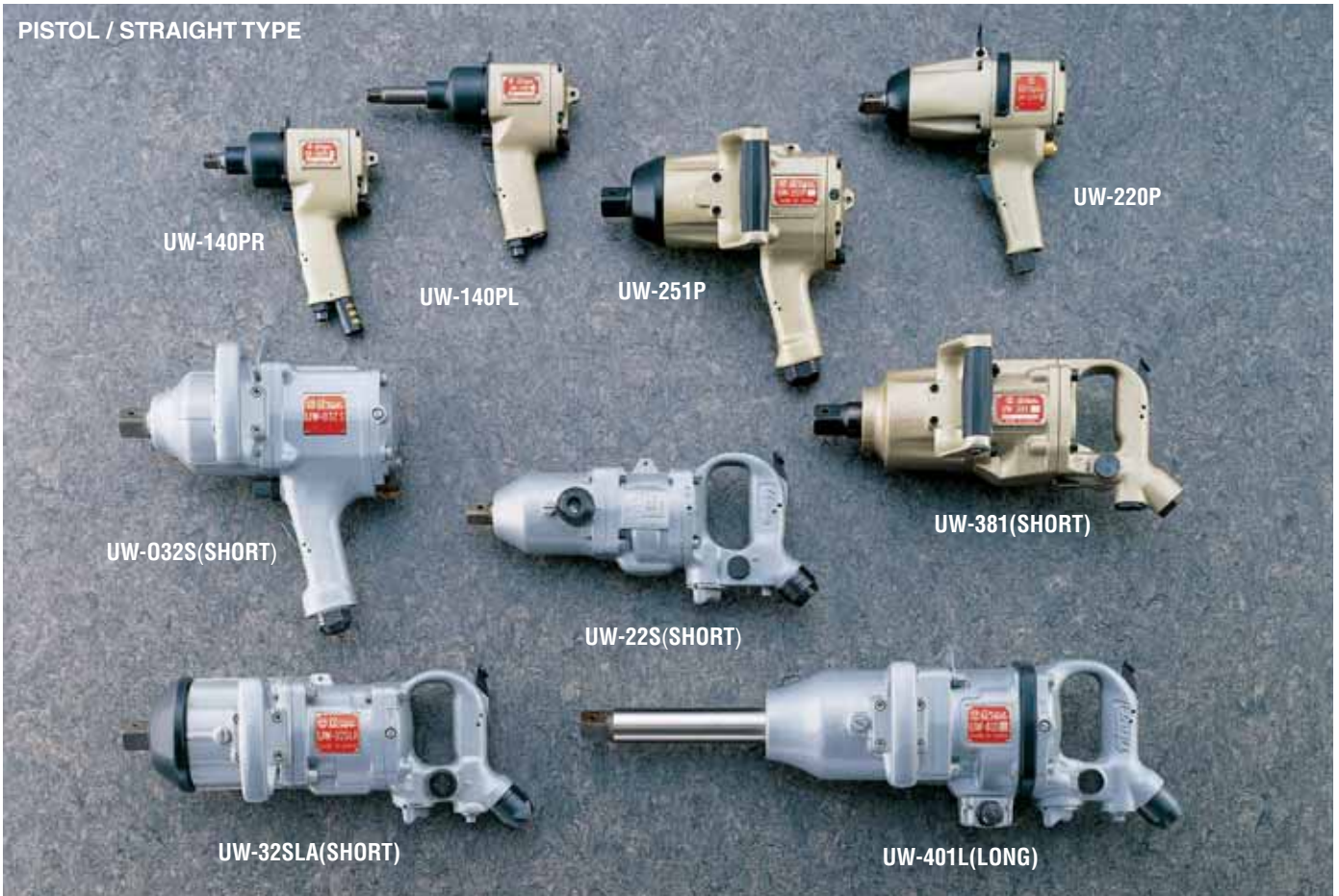
Recommended Air Pressure : 0.6MPa (85psi)

| Model | Capacity (Nominal Bolt Size) | | Free Speed (about) | Overall Length less Socket (about) | | Weight less Socket (about) | | From Center to Outside (about) | | Sq. Drive Shank | | Average Air Consumption | |
|-----------|------------------------------|---------|--------------------|------------------------------------|----------|----------------------------|-------|--------------------------------|---------|-----------------|-----|-------------------------|---------------------|
| | mm | in | | rpm | mm | in | kg | lb | mm | in | mm | in | m ³ /min |
| UW-8SHRK | 8 | 5/16 | 7300 | 172 | 6 49/64 | 1.55 | 3.41 | 31.0 | 1 7/32 | 12.7 | 1/2 | 0.40 | 14.0 |
| UW-9SRK | 10 | 3/8 | 7000 | 178 | 7 1/64 | 1.79 | 3.93 | 34.0 | 1 11/32 | 12.7 | 1/2 | 0.45 | 16.0 |
| UW-10SHRK | 10-12 | 3/8-1/2 | 6000 | 183 | 7 13/64 | 2.13 | 4.68 | 35.0 | 1 3/8 | 12.7 | 1/2 | 0.45 | 16.0 |
| UW-13SRK | 13 | 1/2 | 6000 | 215 | 8 15/32 | 2.61 | 5.74 | 37.5 | 1 15/32 | 12.7 | 1/2 | 0.45 | 16.0 |
| UW-8SHK | 8 | 5/16 | 7500 | 172 | 6 49/64 | 1.55 | 3.41 | 31.0 | 1 7/32 | 12.7 | 1/2 | 0.40 | 14.0 |
| UW-9SK | 10 | 3/8 | 7000 | 178 | 7 1/64 | 1.84 | 4.04 | 34.0 | 1 11/32 | 12.7 | 1/2 | 0.50 | 17.6 |
| UW-10SHK | 10-12 | 3/8-1/2 | 6500 | 183 | 7 13/64 | 2.13 | 4.68 | 35.0 | 1 3/8 | 12.7 | 1/2 | 0.45 | 16.0 |
| UW-13SK | 13 | 1/2 | 6500 | 215 | 8 15/32 | 2.61 | 5.74 | 37.5 | 1 15/32 | 12.7 | 1/2 | 0.55 | 19.4 |
| UW-9SSK | 10 | 3/8 | 7000 | 290 | 11 27/64 | 2.10 | 4.62 | 34.0 | 1 11/32 | 12.7 | 1/2 | 0.45 | 16.0 |
| UW-9SSRK | 10 | 3/8 | 7000 | 320 | 12 19/32 | 2.10 | 4.62 | 34.0 | 1 11/32 | 12.7 | 1/2 | 0.45 | 16.0 |
| UW-13SSK | 13 | 1/2 | 6300 | 281 | 11 1/16 | 3.17 | 6.97 | 39.0 | 1 17/32 | 12.7 | 1/2 | 0.55 | 19.4 |
| UW-9CSK | 10 | 3/8 | 7000 | 337 | 13 17/64 | 2.78 | 6.11 | 34.0 | 1 11/32 | 12.7 | 1/2 | 0.35 | 12.4 |
| UW-9CSRK | 10 | 3/8 | 7000 | 359 | 14 9/64 | 2.78 | 6.11 | 34.0 | 1 11/32 | 12.7 | 1/2 | 0.35 | 12.4 |
| UW-13CSK | 13 | 1/2 | 6500 | 374 | 14 23/32 | 5.17 | 11.37 | 39.0 | 1 17/32 | 12.7 | 1/2 | 0.75 | 26.5 |

Air Hose Size (Inside Diameter) : 9.5mm (3/8") Air Inlet Thread : NPT1/4"

IMPACT WRENCHES

PISTOL / STRAIGHT TYPE



BOLT & NUT SETTERS

*Inside Trigger is also available for UW-381, UW-22S, UW-32SLA and UW-401.



Suffix "L" to Model Name.

| MODEL | L | | MODEL | L | |
|----------|-------|---------|----------|-------|---------|
| | mm | in | | mm | in |
| UW-140PL | 68.5 | 2 45/64 | UW-381L | 200.0 | 7 7/8 |
| UW-220PL | 150.0 | 5 29/32 | UW-381PL | 200.0 | 7 7/8 |
| UW-251PL | 151.0 | 5 15/16 | UW-401L | 199.5 | 7 55/64 |

SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Capacity (Nominal Bolt Size) | | Free Speed (about) | Overall Length less Socket (about) | | Weight less Socket (about) | | From Center to Outside (about) | | Sq. Drive Shank | | Average Air Consumption | |
|-------------------|------------------------------|-------|--------------------|------------------------------------|----------|----------------------------|-------|--------------------------------|---------|-----------------|-----|-------------------------|----------------------|
| | mm | in | | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UW-140P, -140PR | 12 | 1/2 | 6500 | 200 | 7 7/8 | 2.70 | 5.90 | 33.0 | 1 19/64 | 12.7 | 1/2 | 0.70 | 25.0 |
| UW-140PL, -140PRL | 12 | 1/2 | 6800 | 244 | 9 39/64 | 2.80 | 6.10 | 33.0 | 1 19/64 | 12.7 | 1/2 | 0.70 | 25.0 |
| UW-220P | 19 | 3/4 | 5500 | 230 | 9 1/16 | 4.40 | 9.60 | 42.0 | 1 21/32 | 19.0 | 3/4 | 0.70 | 25.0 |
| UW-220PL | 19 | 3/4 | 5500 | 350 | 13 25/32 | 4.70 | 10.30 | 42.0 | 1 21/32 | 19.0 | 3/4 | 0.70 | 25.0 |
| UW-251P | 25 | 1 | 5500 | 276 | 10 55/64 | 8.00 | 17.60 | 51.5 | 2 1/32 | 25.4 | 1 | 0.80 | 28.0 |
| UW-251PL | 25 | 1 | 5500 | 395 | 15 35/64 | 8.80 | 19.40 | 51.5 | 2 1/32 | 25.4 | 1 | 0.80 | 28.0 |
| UW-22S | 22 | 7/8 | 4000 | 395 | 15 35/64 | 7.90 | 17.41 | 50.0 | 1 31/32 | 19.0 | 3/4 | 0.75 | 26.5 |
| UW-22S(L) | 22 | 7/8 | 4000 | 518 | 20 25/64 | 8.30 | 18.30 | 50.0 | 1 31/32 | 19.0 | 3/4 | 0.75 | 26.5 |
| UW-022S | 22 | 7/8 | 3800 | 257 | 10 1/8 | 7.65 | 16.80 | 50.0 | 1 31/32 | 19.0 | 3/4 | 0.75 | 26.5 |
| UW-032S | 32 | 1 1/4 | 3500 | 304 | 11 31/32 | 11.60 | 25.50 | 61.0 | 2 13/32 | 25.4 | 1 | 1.15 | 40.6 |
| UW-32SLA | 32 | 1 1/4 | 3500 | 438 | 17 1/4 | 11.70 | 25.74 | 62.5 | 2 29/64 | 25.4 | 1 | 0.90 | 32.0 |
| UW-32SLA(L) | 32 | 1 1/4 | 3500 | 583 | 22 61/64 | 12.50 | 27.50 | 62.5 | 2 29/64 | 25.4 | 1 | 0.90 | 32.0 |
| UW-381 | 38 | 1 1/2 | 4700 | 395 | 15 35/64 | 9.50 | 20.90 | 58.5 | 2 19/64 | 25.4 | 1 | 0.90 | 31.5 |
| UW-381L | 38 | 1 1/2 | 4700 | 543 | 21 3/8 | 10.00 | 22.00 | 58.5 | 2 19/64 | 25.4 | 1 | 0.90 | 31.5 |
| UW-381P | 38 | 1 1/2 | 4700 | 276 | 10 55/64 | 9.50 | 20.90 | 58.5 | 2 19/64 | 25.4 | 1 | 0.90 | 31.5 |
| UW-381PL | 38 | 1 1/2 | 4700 | 425 | 16 47/64 | 10.00 | 22.00 | 58.5 | 2 19/64 | 25.4 | 1 | 0.90 | 31.5 |
| UW-401 | 38 | 1 1/2 | 3200 | 494 | 19 29/64 | 15.10 | 33.22 | 62.5 | 2 29/64 | 25.4 | 1 | 1.20 | 42.4 |
| UW-401L | 38 | 1 1/2 | 3200 | 654 | 25 3/4 | 16.50 | 36.30 | 62.5 | 2 29/64 | 25.4 | 1 | 1.20 | 42.4 |

Air Hose Size (Inside Diameter) : 9.5mm (3/8") for UW-140P Series, 12.7mm (1/2") for other models above

Air Inlet Thread : NPT1/4" for UW-140P Series NPT3/8" for UW-220P, UW-251P Series, UW-22S, UW-022S & UW-032S NPT1/2" for UW-381 series & UW-401 Series

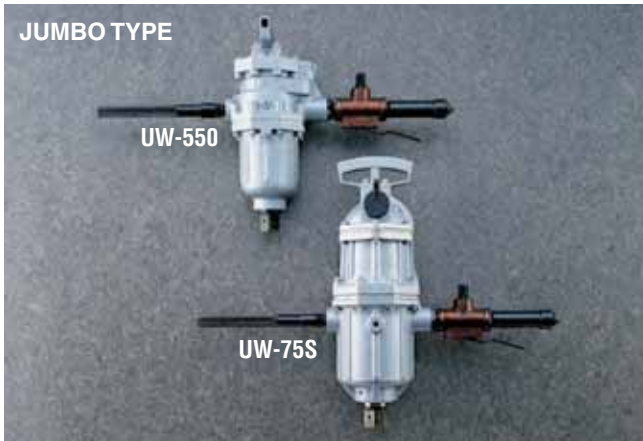
UW-140P Series combine compact size and light weight with high torque, 70 - 200Nm to meet a wide range of applications. Recommendable for overall automotive service, body shops etc.

UW-220P Series are recommendable for various popular fastening joints in general industry. (300 - 700Nm)

UW-251P Series are recommendable for heavy industrial production work such as engine work, truck springs, tractor pads, off-road equipment and heavy duty farm equipment. (600 - 1000Nm)

UW-381 Series are powerful, light-weight impact wrenches that are ideal for wide applications (1400 - 2000Nm) in steel erection refineries, petrochemical plants, mines, steel mills and heavy motor vehicle plants.

IMPACT WRENCHES



Double-Hammer Jumbo Type

URYU heavy-duty double-hammer impact wrenches offer the ultimate power for handling big, tough nut running and removal jobs in shipyards, steel mills, chemical plants, powerhouses as well as in plant manufacturing heavy machinery, large diesel engines, turbogenerators etc.

Built-In Air Regulator

Pull up the spring loaded knob and turn clockwise to lower the power and anticlockwise to increase it, then reset.



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

| Model | Capacity (Nominal Bolt Size) | | Free Speed (about) | Overall Length less Socket (about) | | Weight less Socket (about) | | From Center to Outside (about) | | Sq. Drive Shank | | Average Air Consumption | |
|---------------|------------------------------|-------|--------------------|------------------------------------|----------|----------------------------|-------|--------------------------------|---------|-----------------|-------|-------------------------|----------------------|
| | mm | in | | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UW-550 | 56 | 2 1/4 | 3500 | 525 | 20 43/64 | 36.0 | 79.2 | 78.0 | 3 5/64 | 38.1 | 1 1/2 | 2.20 | 79 |
| UW-75S | 76 | 3 | 1400 | 670 | 26 3/8 | 56.0 | 123.0 | 96.0 | 3 25/32 | 44.4 | 1 3/4 | 3.20 | 114 |
| UW-75S(1 1/2) | 76 | 3 | 1400 | 670 | 26 3/8 | 56.0 | 123.0 | 96.0 | 3 25/32 | 38.1 | 1 1/2 | 3.20 | 114 |

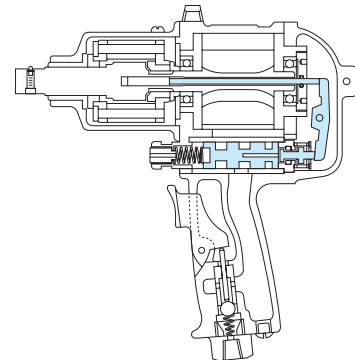
Air Hose Size (Inside Diameter) : 19.0mm (3/4")
Air Inlet Thread : NPT1"

STUD BOLT WRENCHES



Double-Hammer Auto-Reversing for Stud Bolt Driving

These unique Auto-Reversing tools simplify stud-bolt driving (frequent reversing) job considerably for less operator's fatigue & high productivity. Push the tool forward to the work for driving and simply pull it back.



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

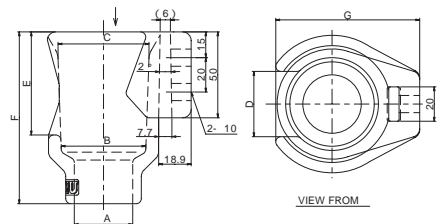
| Model | Capacity (Nominal Bolt Size) | | Free Speed (about) | Overall Length less Socket (about) | | Weight less Socket (about) | | From Center to Outside (about) | | Sq. Drive Shank | | Average Air Consumption | |
|------------|------------------------------|---------|--------------------|------------------------------------|---------|----------------------------|------|--------------------------------|--------|-----------------|-----|-------------------------|----------------------|
| | mm | in | | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| UW-ST6SHK | 8 | 5/16 | 6500 | 171 | 6 47/64 | 1.70 | 3.74 | 28.5 | 1 1/8 | 9.5 | 3/8 | 0.40 | 14.0 |
| UW-ST9SK | 10 | 3/8 | 6300 | 192 | 7 9/16 | 2.35 | 5.06 | 33.5 | 1 5/16 | 12.7 | 1/2 | 0.50 | 17.6 |
| UW-ST10SHK | 10-12 | 3/8-1/2 | 6300 | 194 | 7 41/64 | 2.60 | 5.72 | 33.5 | 1 5/16 | 12.7 | 1/2 | 0.50 | 17.6 |
| UW-ST6SSHK | 8 | 5/16 | 6500 | 235 | 9 1/4 | 1.35 | 2.97 | 28.5 | 1 1/8 | 9.5 | 3/8 | 0.40 | 14.0 |

Air Hose Size (Inside Diameter) : 9.5mm (3/8")
Air Inlet Thread : NPT1/4"

ACCESSORIES

Tool Holders

| | Dimension (mm) | | | | | | | Code Nos. | Used for |
|--------|----------------|----|----|----|----|-----|-------|-----------|--|
| | A | B | C | D | E | F | G | | |
| Small | 34 | 49 | 54 | 38 | 60 | 100 | 84 | 852-644-1 | ULT30D~70 SERIES, UAT30D~70 SERIES, UL30~70 SERIES, UX-450~500 SERIES, US-5PW, -6PW, UD-50-200, -45, -22, UD-60-29, -20, -15, UT-66B-15 |
| Middle | 36 | 54 | 68 | 38 | 66 | 115 | 106.5 | 852-669-1 | ULT70~90 SERIES, UAT70~90 SERIES, UL70~90 SERIES, UL40MC-90MC, UA40MC-90MC, UDBP-(T, A, TA)40~60 SERIES, UX-612~700 SERIES, -T700~T800 SERIES, UW-6SLRK, -6SLK, -6SAK, -6SHAK, -6SHK SERIES, UW-6SARK, -6SBRK, -6SHBRK, -B6SLK, -ST6SHK SERIES |
| Large | 50 | 74 | 78 | 42 | 80 | 125 | 115 | 852-645-1 | ULT90~130 SERIES, UAT90~130 SERIES, UL90~130 SERIES, UL100MC, UA100MC, UDBP-(T, TA)70 SERIES, UX-T700-T900, -800-900, -ST800 SERIES, UW-6SK, 6SHK, -8SHK, -8SHRK, -9SRK SERIES |



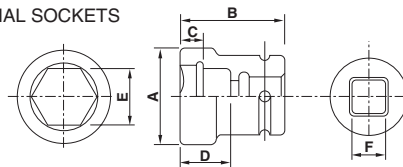
BOLT & NUT SETTERS ACCESSORIES

HEXAGONAL SOCKETS

| Code Nos. | Dimensions of Sockets (mm) | | | | | Sq. Drive F |
|-----------|----------------------------|----|------|------|----|----------------|
| | A | B | C | D | E | |
| 900-028-0 | 16 | 19 | 5.3 | 9.4 | 10 | 9.5 |
| 900-044-0 | 20 | 21 | 5.5 | 11.4 | 11 | |
| 900-056-0 | 22 | 25 | 6.5 | 12.0 | 13 | |
| 900-064-0 | 22 | 25 | 6.5 | 15.4 | 14 | |
| 900-132-0 | 23 | 30 | 6.5 | 14.0 | 13 | |
| 900-140-0 | 24 | 30 | 6.5 | 14.0 | 14 | 12.7 |
| 900-153-0 | 28 | 31 | 7.5 | 15.0 | 17 | |
| 900-170-0 | 30 | 35 | 8.5 | 15.0 | 19 | |
| 900-176-0 | 35 | 38 | 9.5 | 18.0 | 21 | |
| 900-187-0 | 36 | 40 | 9.5 | 19.0 | 22 | |
| 900-193-0 | 37 | 41 | 10.0 | 20.0 | 23 | 15.9 |
| 900-243-0 | 33 | 37 | 8.5 | 15.0 | 19 | |
| 900-248-0 | 35 | 38 | 9.5 | 18.0 | 21 | |
| 900-255-0 | 36 | 40 | 10.0 | 17.0 | 22 | |
| 900-260-0 | 37 | 41 | 10.0 | 18.0 | 23 | |
| 900-266-0 | 38 | 42 | 11.0 | 19.0 | 24 | 19.0 |
| 900-269-0 | 40.5 | 44 | 12.0 | 24.0 | 26 | |
| 900-342-0 | 40 | 48 | 11.0 | 21.0 | 24 | |
| 900-347-0 | 43 | 49 | 12.0 | 22.0 | 26 | |
| 900-360-0 | 45 | 50 | 14.0 | 23.0 | 27 | |
| 900-377-0 | 48 | 52 | 15.0 | 27.0 | 30 | 25.4 |
| 900-380-0 | 50 | 54 | 15.0 | 29.0 | 32 | |
| 900-390-0 | 54 | 57 | 17.0 | 32.0 | 35 | |
| 900-400-0 | 55 | 58 | 17.0 | 33.0 | 36 | |
| 900-464-0 | 54 | 57 | 15.0 | 29.0 | 32 | |
| 900-475-0 | 54 | 60 | 17.0 | 32.0 | 35 | 25.4 |
| 900-483-0 | 56 | 60 | 17.0 | 32.0 | 36 | |
| 900-499-0 | 62 | 66 | 19.0 | 38.0 | 41 | |
| 900-512-0 | 68 | 70 | 21.0 | 42.0 | 46 | |
| 900-519-0 | 78 | 76 | 24.0 | 48.0 | 50 | |

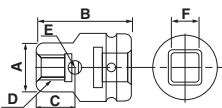
| Code Nos. | Dimensions of Sockets (mm) | | | | | Sq. Drive F |
|-----------|----------------------------|-----|------|-------|-----|----------------|
| | A | B | C | D | E | |
| 900-580-0 | 64 | 66 | 19.0 | 31.0 | 41 | 31.8 |
| 900-587-0 | 70 | 70 | 21.0 | 35.0 | 46 | |
| 900-601-0 | 78 | 75 | 24.0 | 40.0 | 50 | |
| 900-605-0 | 82 | 80 | 27.0 | 45.0 | 54 | |
| 900-609-0 | 82 | 80 | 27.0 | 45.0 | 55 | |
| 900-610-0 | 88 | 83 | 29.0 | 48.0 | 58 | 38.1 |
| 900-613-0 | 90 | 86 | 30.0 | 51.0 | 60 | |
| 900-653-0 | 100 | 98 | 33.0 | 53.0 | 67 | |
| 900-655-0 | 109 | 100 | 36.0 | 55.0 | 70 | |
| 900-660-0 | 115 | 103 | 38.0 | 58.0 | 77 | |
| 900-664-0 | 120 | 107 | 40.0 | 62.0 | 80 | 44.4 |
| 900-666-0 | 125 | 111 | 43.0 | 66.0 | 85 | |
| 900-694-0 | 120 | 114 | 38.0 | 68.0 | 77 | |
| 900-697-0 | 125 | 117 | 41.0 | 71.0 | 80 | |
| 900-700-0 | 145 | 130 | 48.0 | 84.0 | 95 | |
| 900-706-0 | 165 | 140 | 60.0 | 94.0 | 110 | 50.8 |
| 900-744-0 | 164 | 140 | 60.0 | 89.0 | 110 | |
| 900-750-0 | 194 | 157 | 70.0 | 106.0 | 130 | |
| 900-752-0 | 196 | 162 | 64.0 | 111.0 | 135 | |
| 900-754-0 | 210 | 171 | 79.0 | 120.0 | 145 | |
| 900-780-0 | 95 | 120 | 30.0 | 47.0 | 58 | 63.5 |
| 900-786-0 | 155 | 142 | 41.0 | 69.0 | 95 | |
| 900-794-0 | 252 | 206 | 83.0 | 143.0 | 175 | |

HEXAGONAL SOCKETS



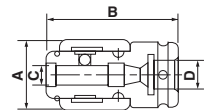
Sockets for Stud-Bolt Driving

| Code Nos. | Nominal Bolt Sizes | | Dimensions of Sockets (mm) | | | | | Model | |
|-----------|--------------------|----|----------------------------|----|------|---------|------|-------|------------|
| | mm | in | A | B | C | D | E | | F |
| 903-002-0 | 6 | - | 16 | 29 | 9.0 | M6 | 5/32 | 9.5 | UW-ST6SHK |
| 903-035-0 | - | - | 16 | 19 | 9.0 | W1/4-20 | 5/32 | 9.5 | UW-ST6SSHK |
| 903-003-0 | 8 | - | 17 | 35 | 16.0 | M8 | 7/32 | 9.5 | UX-ST800 |
| 903-103-0 | 8 | - | 17 | 39 | 16.0 | M8 | 7/32 | 12.5 | UW-ST9SK |
| 903-105-0 | 10 | - | 19 | 41 | 18.5 | M10 | 9/32 | 12.5 | UW-ST10SHK |
| 903-137-0 | - | - | 19 | 41 | 18.5 | W3/8-16 | 9/32 | 12.5 | UX-ST1000 |



Bit Chuck Assembly

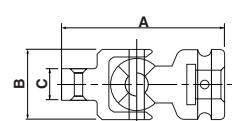
| Code Nos. | A | B | C | D |
|-----------|----|----|---------|--------|
| 907-000-0 | 22 | 41 | 6.35Hex | 9.5Sq |
| 907-050-0 | 24 | 46 | 8.0Sq | 12.7Sq |



Please do not use UX-1000/UW-10SHK or bigger models as the torque is too strong to use with the above.

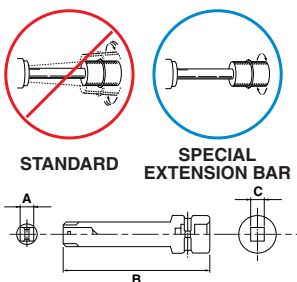
Joint Assembly

| Code Nos. | A | B | C |
|-----------|----|----|------|
| 906-000-0 | 45 | 20 | 9.5 |
| 906-020-0 | 69 | 30 | 12.7 |
| 906-040-0 | 84 | 46 | 12.7 |



SPECIAL EXTENSION BARS FOR OIL-PULSE TOOLS

For tool optimum performance these extension bars are especially designed for deeper engagement with tool anvils to minimize torque-down and wobbling.



| Code Nos. | B (mm) | A&C Sq. Drive | Socket Retainer Type | Models |
|-----------|--------|---------------|----------------------|------------|
| 904-049-0 | 75 | 9.5mm (3/8") | OP-P TYPE | UX-450 |
| 904-050-0 | 100 | | | UL(T)60(S) |
| 904-051-0 | 150 | | | UX-500 |
| 904-075-0 | 190 | | | UL(T)70(S) |
| 904-052-0 | 254 | | | UX-612 |
| 904-054-0 | 300 | | | UL(T)80 |
| 904-053-0 | 320 | UX-(T)700(L) | | |
| 904-155-0 | 76 | 12.7mm (1/2") | OP-P TYPE | UAT40(S) |
| 904-156-0 | 125 | | | UX-(T)800 |
| 904-157-0 | 204 | | | UL30 |
| 904-158-0 | 254 | | | UAT60(S) |
| 904-159-0 | 355 | | | UL(T)40(S) |
| | | | | UAT70(S) |
| | | UL(T)50(S) | | |
| | | | | UAT80 |
| | | | | UX-(T)900 |

| Code Nos. | B (mm) | A&C Sq. Drive | Socket Retainer Type | Models |
|-----------|--------|----------------|----------------------|-------------|
| 904-168-0 | 76 | 12.7mm (1/2") | OP-P TYPE | UX-(T)1000 |
| 904-169-0 | 125 | | | UX-(T)1300 |
| 904-172-0 | 204 | | | UX-(T)1400 |
| 904-173-0 | 355 | | | UL(T)90 |
| | | | | UL(T)100 |
| | | UL(T)130 | | |
| | | UAT90 | | |
| | | UAT100 | | |
| 904-350-0 | 76 | 19.05mm (3/4") | O-RING TYPE | UX-(T)1620 |
| 904-352-0 | 100 | | | UXR-(T)1820 |
| 904-351-0 | 150 | | | UXR-2000(S) |
| 904-353-0 | 200 | | | UXR-(T)2000 |
| | | | | UL(T)150 |
| | | UL(T)180 | | |
| | | UL(T)200 | | |
| 904-455-0 | 200 | 25.4mm (1") | O-RING TYPE | UXR-2400S |
| | | | | UXR-3000S |

RATCHET WRENCHES

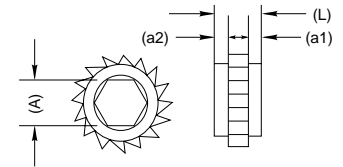
URYU wide range of **URW series** Ratchet Wrenches offer versatile service for driving and removing bolts or nuts in narrow application. Bent head type, Thinner head type and Extended Head type are also available for many kinds of hard-to-reach access fastening jobs, where even the standard head of Ratchet Wrenches can not get in. Reverse rotation is obtained by simply turning a tool over.

BOLT & NUT SETTERS

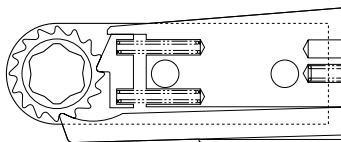
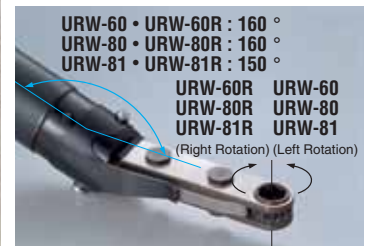
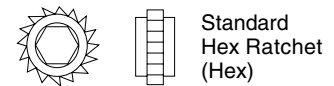


RATCHET VARIATION

Specify type of ratchet, size of across flat and extension length.



(A): Across Flat
(L): Thickness
(a1): Size in fastening side
(a2): Size in loosening side



Head Sizes

| MODEL | H | | W | | L | | C | |
|---------------------------|------|-------|------|---------|-------|---------|------|--------|
| | mm | in | mm | in | mm | in | mm | in |
| URW-6,60,60R | 13.0 | 33/64 | 20.0 | 25/32 | 88.0 | 3 15/32 | 10.0 | 25/64 |
| URW-8,8N,9N,80,80R,81,81R | 18.0 | 45/64 | 25.0 | 63/64 | 102.5 | 4 1/32 | 12.5 | 31/64 |
| URW-10N | 18.0 | 45/64 | 33.0 | 19/64 | 106.5 | 4 3/16 | 16.5 | 21/32 |
| URW-12N | 18.0 | 45/64 | 36.0 | 1 27/64 | 109.5 | 4 5/16 | 18.0 | 45/64 |
| URW-12NA | 18.0 | 45/64 | 46.0 | 1 13/16 | 120.5 | 4 3/4 | 23.0 | 29/32 |
| URW-12NB | 18.0 | 45/64 | 54.0 | 2 1/8 | 128.5 | 5 1/16 | 27.0 | 1 1/16 |

SPECIFICATIONS

Recommended Air Pressure:0.4MPa(57psi)

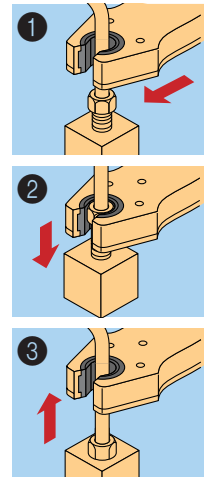
| Model | Capacity (Nominal Bolt Size) | | Max. Torque (0.4MPa) | | Free Speed (about) | Overall Length (about) | | Weight (about) | | Hex Size of Ratchet Wrench | | Average Air Consumption | |
|-------------|------------------------------|------|----------------------|--------|--------------------|------------------------|----------|----------------|------|------------------------------------|--|-------------------------|----------------------|
| | mm | in | Nm | ft-lbs | | mm | in | kg | lb | mm | in | m ³ /min | ft ³ /min |
| URW-6 | 6 | 1/4 | 11 | 8.1 | 200 | 292 | 11 1/2 | 1.15 | 2.54 | 6, 7, 8, 10, 11, 12 | 1/4, 5/16, 3/8, 7/16 | 0.28 | 9.9 |
| URW-60, 60R | 6 | 1/4 | 11 | 8.1 | 200 | 288 | 11 11/32 | 1.15 | 2.54 | 6, 7, 8, 10, 11, 12 | 1/4, 5/16, 3/8, 7/16 | 0.28 | 9.9 |
| URW-8N | 8 | 5/16 | 16 | 11.8 | 220 | 300 | 11 13/16 | 1.90 | 4.18 | 7, 8, 9, 10, 11, 12, 13, 14, 15 | 7/16, 1/2, 9/16 | 0.55 | 19.5 |
| URW-80, 80R | 8 | 5/16 | 16 | 11.8 | 220 | 300 | 11 13/16 | 2.25 | 4.96 | 7, 8, 9, 10, 11, 12, 13, 14, 15 | 7/16, 1/2, 9/16 | 0.55 | 19.5 |
| URW-81, 81R | 8 | 5/16 | 16 | 11.8 | 220 | 300 | 11 13/16 | 2.25 | 4.96 | 7, 8, 9, 10, 11, 12, 13, 14, 15 | 7/16, 1/2, 9/16 | 0.55 | 19.5 |
| URW-8 | 8 | 5/16 | 16 | 11.8 | 240 | 360 | 14 3/16 | 2.25 | 4.96 | 7, 8, 9, 10, 11, 12, 13, 14, 15 | 7/16, 1/2, 9/16 | 0.56 | 19.8 |
| URW-9N | 10 | 3/8 | 31 | 22.9 | 200 | 380 | 15 | 2.35 | 5.18 | 7, 8, 9, 10, 11, 12, 13, 14, 15 | 7/16, 1/2, 9/16 | 0.67 | 23.7 |
| URW-10N | 10 | 3/8 | 57 | 42.2 | 150 | 394 | 15 33/64 | 2.65 | 5.83 | 10, 12, 13, 14, 15, 16, 17, 18, 19 | 9/16, 5/8, 11/16, 3/4 | 0.70 | 25.0 |
| URW-12N | 13 | 1/2 | 59 | 43.7 | 150 | 397 | 15 5/8 | 2.70 | 5.94 | 12, 14, 16, 17, 18, 19, 21, 22, 23 | 3/8, 1/2, 9/16, 5/8, 11/16, 3/4, 13/16 | 0.70 | 25.0 |
| URW-12NA | 14 | 9/16 | 78 | 57.7 | 100 | 408 | 16 1/16 | 2.80 | 6.17 | 17, 18, 19, 21, 22, 23, 24, 26, 27 | 11/16, 3/4, 15/16 | 0.70 | 25.0 |
| URW-12NB | 16 | 5/8 | 93 | 68.8 | 85 | 416 | 16 19/64 | 2.90 | 6.39 | 24, 29, 30, 32 | 5/8, 11/16, 3/4, 13/16, 7/8, 15/16, 1, 1-1/8 | 0.70 | 25.0 |

Air Inlet Thread (Pipe Tap) : NPT1/4"
Air Hose Size (Inside Diameter) : 9.5mm (3/8")
Specify Hex. size when ordering.
Max Torque is a guideline.

OPEN-END / GEARED WRENCHES

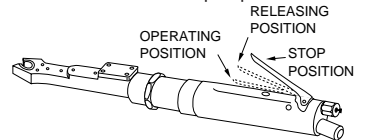
URYU offers two types of Open-End Wrenches for fast, accurate tube nut tightening. **UOW-11 series** is a stall torque type and **UOW-T60 series** is a mechanical shut-off type with external torque adjustment. All gear drive mechanism without ratcheting provides precise torque, silent operation and longer tool life. The unique one-hand two-step throttle lever enables the socket to be back to the open position and ensures smooth & easy operation. **UOW-T60 series** ensures more precise fastening and less operator fatigue due to fast shut-off clutch mechanism. **UGW Geared Wrench** offers quit and smooth nut fastening operation in hard-to-reach spaces.

OPEN-END WRENCH



TWO-STEP THROTTLE LEVER

HALF-WAY for Releasing the Gear
Socket back to the open position.



Full-down for Operation.

EXTERNAL DIAL

Torque adjustment (No special tool is needed)

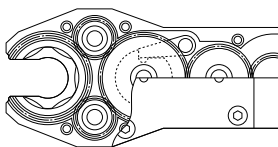


1 : Min.
3 : Max.

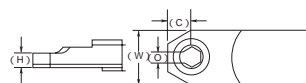
UOW-T60 series only.



BOLT & NUT SETTERS



Head Sizes



| MODEL | H | | W | | O | | C | |
|----------------------|------|-------|------|---------|-----------|-------------|------|-------|
| | mm | in | mm | in | mm | in | mm | in |
| UOW-11-10,UOW-T60-10 | 14.0 | 35/36 | 37.0 | 1 29/64 | 5.0-6.0 | 13/64-15/64 | 10.0 | 25/64 |
| UOW-11-14,UOW-T60-14 | 14.0 | 35/36 | 40.0 | 1 37/64 | 6.0-9.0 | 15/64-23/64 | 13.0 | 25/64 |
| UOW-11-22,UOW-T60-22 | 16.0 | 5/8 | 56.0 | 2 13/64 | 13.0-15.0 | 33/64-19/32 | 17.0 | 43/64 |
| UOW-11-30,UOW-T60-30 | 16.0 | 5/8 | 68.0 | 2 43/64 | 15.0-23.0 | 19/32-29/32 | 21.0 | 53/64 |

SPECIFICATIONS

Recommended Air Pressure:0.6MPa(85psi)

| Model | Max. Torque / Range | | Free Speed (about) | Overall Length (about) | | Weight (about) | | Hex Size of Ratchet Wrench | | Average Air Consumption | |
|------------|---------------------|----------|--------------------|------------------------|----------|----------------|------|--|----|-------------------------|---------------------|
| | Nm | ft-lbs | | rpm | mm | in | kg | lb | mm | in | m ³ /min |
| UOW-11-10 | 13 | 9.6 | 400 | 295 | 11 47/64 | 1.50 | 3.31 | 7, 8, 9, 10, 11, 12 | | 0.35 12.5 | |
| UOW-11-14 | 16 | 11.8 | 260 | 311 | 12 1/4 | 1.60 | 3.52 | 10, 11, 12, 13, 14, 15, 16, 17 | | 0.35 12.5 | |
| UOW-11-22 | 24 | 17.8 | 180 | 326 | 12 53/64 | 1.75 | 3.85 | 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 | | 0.35 12.5 | |
| UOW-11-30 | 32 | 23.7 | 135 | 347 | 13 21/32 | 2.00 | 4.40 | 14, 17, 18, 19, 23, 24, 26, 27, 29, 30, 32, 36 | | 0.35 12.5 | |
| UOW-T60-10 | 4-14 | 3.0-10.4 | 300 | 370 | 14 5/8 | 2.10 | 4.62 | 7, 8, 9, 10, 11, 12 | | 0.50 18.0 | |
| UOW-T60-14 | 5-17 | 3.7-12.6 | 230 | 385 | 15 1/8 | 2.20 | 4.85 | 10, 11, 12, 13, 14, 15, 16, 17 | | 0.50 18.0 | |
| UOW-T60-22 | 7-24 | 5.2-17.8 | 170 | 400 | 15 3/4 | 2.35 | 5.18 | 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 24 | | 0.50 18.0 | |
| UOW-T60-30 | 10-32 | 7.4-23.7 | 130 | 420 | 16 5/8 | 2.60 | 5.73 | 14, 17, 18, 19, 23, 24, 26, 27, 29, 30, 32, 36 | | 0.50 18.0 | |
| UGW-6N | 18 | 13.3 | 530 | 310 | 12 13/64 | 1.40 | 3.08 | 9, 10, 11, 12 | | 0.63 22.0 | |
| UGW-8N | 23 | 17.0 | 410 | 322 | 12 11/16 | 1.45 | 3.19 | 10, 12, 13, 14, 17 | | 0.63 22.0 | |

Air Inlet Thread (Pipe Tap) : NPT1/4" Air Hose Size (Inside Diameter) : 9.5mm (3/8")
Specify Hex. size when ordering.
Max Torque is a guideline.

TORQUE CONTROL ELECTRIC ANGLE NUTRUNNER

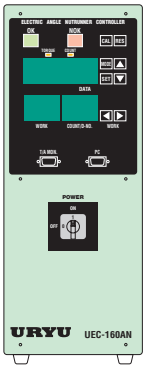
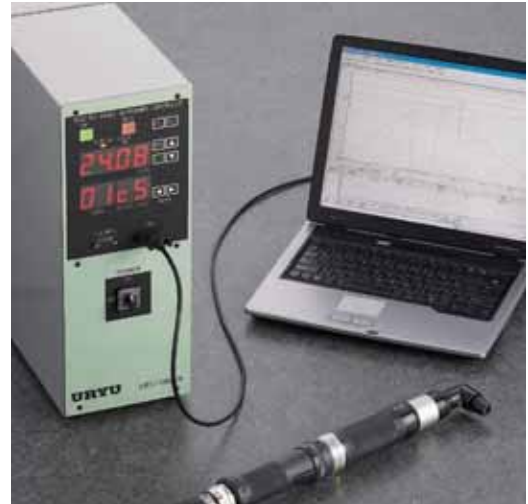
URYU has developed **UAN-F130 series** Electric Angle Nutrunner by merging his fastening technology of pneumatic tools in high speed servo motor angle nutrunner. Enable high accurate fastening with compact designed controller.

Features

- Wide range speed control due to high speed motor.
- Compact design 170mm slim width controller.
- Data communications by interface to external systems via built-in RS232C board.

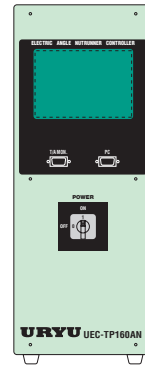
Functions

- High accurate fastening with Torque/Angle control.
- Displays Torque/Angle curves (displays these curves on front touch panel in touch panel type controller).
- Up to 16 multi-step fastening by programming with controller or through setup software of personal computer.
- Data storage capacity is 12,000 pieces. UEC-160AN 7-segment type : Download the stored data to your PC for statistical analysis of mean, σ , 3 / mean, CP, and CPK. You can also graph the total data. UEC-TP160AN touch panel type: You can further process these calculations on front touch panel without PC.
- Interlock with conveyor is possible due to terminals available in the rear panel.



Specifications (7-segment Type)

| | |
|---------------------|--|
| Power supply | Single phase AC100 - 230V |
| Power frequency | 50/60Hz |
| Ambient temperature | 0 - 45 (no dew) |
| Ambient Humidity | 30 - 90% (no dew) |
| Consumption | Approx. 80W |
| Weight | 16.60 kgs. |
| Dimensions (mm) | 350Dx170Wx442H |
| Main functions | Either of torque control and angle monitor, or angle control and torque monitor |
| Parameter set | Pressing front key pads, CAL, RES, MODE, SET, , , , , or from your PC (software required) |
| Front display panel | 4-digit: setting value, torque/angle 2-digit:(left) Work number 2-digit:(right) Count number |
| Lamp display | Total OK (green), NOK (red) Judgment TORQUE/COUNT(orange) |



Specifications (Touch Panel Type)

| | |
|---------------------|---|
| Power supply | Single phase AC100 - 230V |
| Power frequency | 50/60Hz |
| Ambient temperature | 0 - 45 (no dew) |
| Ambient Humidity | 30 - 90% (no dew) |
| Consumption | Approx. 80W |
| Weight | 16.90 kgs. |
| Dimensions (mm) | 350Dx170Wx442H |
| Main functions | Either of torque control and angle monitor, or angle control and torque monitor |
| Parameter set | Front touch panel setting or from your PC (software required) |
| Front display panel | 25 letters and 15 lines 4-digit: Torque/Count (orange) |
| Lamp display | Total OK (green), NOK (red) Judgment TORQUE/COUNT(orange) |



| Model | Accessory | Qty |
|--------------|-------------|-----|
| UEC-160ANA/E | Power Cable | 1 |

| Code No. | Used for |
|-----------|-------------------|
| 859-553-1 | UAN-F130-040, 060 |
| 859-544-1 | UAN-F130-080, 120 |

| Model | Code No. |
|----------------|-----------|
| Tool cable 5m | 910-911-0 |
| Tool cable 10m | 910-912-0 |
| Tool cable 15m | 910-913-0 |
| Tool cable 30m | 910-914-0 |

Tool cable is necessary for the connection between tool and controller. It is not included in the tool, so please purchase it separately.



SPECIFICATIONS

| Model | Capacity (Nominal Bolt Size) | | Max. Torque | | Free Speed (about) | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Angle Height (about) | | Sq. Drive Shank | |
|--------------|------------------------------|------------|-------------|--------|--------------------|------------------------|----------|-----------------------------------|------|--------------------------------|-------|----------------------|---------|-----------------|-----|
| | mm | in | Nm | ft-lbs | rpm | mm | in | kg | lb | mm | in | mm | in | mm | in |
| UAN-F087-015 | 5-8 | No.10-5/16 | 15 | 11.1 | 1215 | 399 | 15 45/64 | 1.43 | 3.15 | 14.0 | 35/64 | 49.0 | 1 59/64 | 9.5 | 3/8 |
| UAN-F130-025 | 8 | 5/16 | 25 | 18.5 | 1060 | 419 | 16 1/2 | 1.53 | 3.37 | 14.0 | 35/64 | 49.0 | 1 59/64 | 9.5 | 3/8 |
| UAN-F130-040 | 8-10 | 5/16-3/8 | 40 | 29.6 | 640 | 444 | 17 33/64 | 1.76 | 3.87 | 18.0 | 45/64 | 52.5 | 2 2/32 | 9.5 | 3/8 |
| UAN-F130-060 | 10-12 | 3/8-1/2 | 60 | 44.4 | 440 | 444 | 17 33/64 | 1.77 | 3.89 | 18.0 | 45/64 | 58.0 | 2 9/32 | 12.7 | 1/2 |
| UAN-F130-080 | 10-14 | 3/8-9/16 | 80 | 59.0 | 325 | 488 | 19 7/32 | 3.13 | 6.87 | 22.5 | 7/8 | 74.0 | 2 29/32 | 12.7 | 1/2 |
| UAN-F130-120 | 12-16 | 1/2-5/8 | 120 | 88.5 | 195 | 488 | 19 7/32 | 3.13 | 6.87 | 22.5 | 7/8 | 74.0 | 2 29/32 | 12.7 | 1/2 |

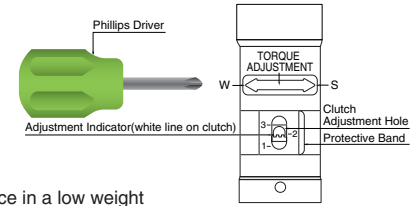
TORQUE CONTROL ANGLE NUTRUNNER (MECHANICAL-CUT)

The New **UAN-611R & UAN-701R series** Torque Control Angle Nutrunners offer exceptional fastening performance in the areas of productivity, ergonomics, reliability and quality.

Six Performance Advantages

1. Instant shut-off providing increased accuracy and reduced reaction.
2. Low inertia design providing increased accuracy.
3. Simple and accurate method to adjust torque output permitting quick setup.
4. Smooth rolling selector allowing easy adjustment to forward rotation or reverse rotation.
5. Rear exhaust providing low noise operation.
6. Multiple angle head positions allowing comfortable operation on limited access application.

Torque Adjustment



Right Angle Head

Designed with a spline type interface allowing multiple head positions for the most comfortable throttle location on those hard to reach applications.

Torque Adjustment

Use a Phillips driver to adjust the torque from the outside of the tool. A gauge displaying 1, 2 and 3 allows you to "roughly adjust" the tool to the desired torque. When adjusting the torque, always disconnect the tool from the air hose.

Pneumatic Motor

Designed to offer high power performance in a low weight package. The high power feature produces torque efficiently on soft joint and prevailing torque applications. The low weight feature reduces motor inertia and assists in producing accurate torque on hard joints. In addition, the motor is designed for easy maintenance.

Grease Cock

Allows periodic lubrication of the angle head bevel gears without having to disassemble the tool.

Rear Exhaust

Allows the tool to operate at less than 80 dB(A). The piped away exhaust option for further reduces noise.

Forward/Reverse Selector

Allows easy operator adjustment to forward rotation or reverse rotation.

Mechanical Clutch

The Uryu "Ergo Clutch" mechanism offers precise control of torque regardless of joint rate. The benefit is virtually no change in torque even on a joint that varies from 30 degrees of rotation (hard joint) to 720 degrees of rotation (soft joint). ISO 5393 testing reveals a 6-sigma combined capability of less than 20% on all models.

Ergo-Touch Protector

Ergonomically designed Protector offers firm gripping for ergonomic fastening.



SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Bolt Capacity | | Torque Range | | Free Speed (about) | Overall Length (about) | | Weight less Socket (about) | | From Center to Outside (about) | | Angle Height (about) | | Square Drive Shank | | Average Air Consumption | |
|--------------|---------------|----------|--------------|-----------|--------------------|------------------------|----------|----------------------------|------|--------------------------------|-------|----------------------|---------|--------------------|-----|-------------------------|----------------------|
| | mm | in | Nm | ft-lbs | | mm | in | kg | lb | mm | in | mm | in | mm | in | m ³ /min | ft ³ /min |
| UAN-611R-60C | 6 | 1/4 | 6.5-12.0 | 4.3-8.6 | 620 | 383 | 15 5/64 | 1.6 | 3.52 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.6 | 21.2 |
| UAN-611R-50C | 6-8 | 1/4-5/16 | 8.5-15.0 | 5.7-10.8 | 470 | 373 | 14 11/16 | 1.6 | 3.52 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.6 | 21.2 |
| UAN-611R-40C | 6-8 | 1/4-5/16 | 10.0-18.0 | 7.2-12.9 | 400 | 373 | 14 11/17 | 1.6 | 3.52 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.6 | 21.2 |
| UAN-611R-30C | 8 | 5/16 | 13.0-25.0 | 9.3-18.0 | 270 | 373 | 14 11/18 | 1.6 | 3.52 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.6 | 21.2 |
| UAN-701R-60C | 8 | 5/16 | 20.0-31.0 | 14.5-23.1 | 600 | 445 | 17 33/64 | 2.4 | 5.29 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.9 | 31.8 |
| UAN-701R-40C | 8-10 | 5/16-3/8 | 28.0-45.0 | 21.0-33.3 | 400 | 455 | 17 29/32 | 2.4 | 5.29 | 18.0 | 45/64 | 51 | 2 | 9.5 | 3/8 | 0.9 | 31.8 |
| UAN-701R-30C | 10-12 | 3/8-1/2 | 37.0-60.0 | 27.5-44.1 | 300 | 455 | 17 29/32 | 2.4 | 5.29 | 18.0 | 45/64 | 58 | 2 9/32 | 12.7 | 1/2 | 0.9 | 31.8 |

Air Inlet Thread (Pipe Tap) : NPT1/4" Air Hose Size (Inside Diameter) : 9.5mm (3/8")

SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

| Model | Bolt Capacity | | Torque Range | | Free Speed (about) | Overall Length less Socket (about) | | Weight less Socket (about) | | From Center to Outside (about) | | Angle Height (about) | | Square Drive Shank | | Average Air Consumption | |
|---------------|---------------|----------|--------------|-----------|--------------------|------------------------------------|----------|----------------------------|------|--------------------------------|-------|----------------------|---------|--------------------|-----|-------------------------|----------------------|
| | mm | in | Nm | ft-lbs | | mm | in | kg | lb | mm | in | mm | in | mm | in | m ³ /min | ft ³ /min |
| UAN-611RM-60C | 6 | 1/4 | 6.5-12.0 | 4.3-8.6 | 620 | 419 | 16 1/2 | 2.0 | 4.4 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.6 | 21.2 |
| UAN-611RM-50C | 6-8 | 1/4-5/16 | 8.5-15.0 | 5.7-10.8 | 470 | 409 | 16 7/64 | 2.0 | 4.4 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.6 | 21.2 |
| UAN-611RM-40C | 6-8 | 1/4-5/16 | 10.0-18.0 | 7.2-12.9 | 400 | 409 | 16 7/64 | 2.0 | 4.4 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.6 | 21.2 |
| UAN-611RM-30C | 8 | 5/16 | 13.0-25.0 | 9.3-18.0 | 270 | 409 | 16 7/64 | 2.0 | 4.4 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.6 | 21.2 |
| UAN-701RM-60C | 8 | 5/16 | 20.0-31.0 | 14.5-23.1 | 600 | 480 | 18 57/64 | 2.7 | 5.94 | 14.0 | 35/64 | 47 | 1 55/64 | 9.5 | 3/8 | 0.9 | 31.8 |
| UAN-701RM-40C | 8-10 | 5/16-3/8 | 28.0-45.0 | 21.0-33.3 | 400 | 492 | 19 3/8 | 2.9 | 6.38 | 18.0 | 45/64 | 51 | 2 | 9.5 | 3/8 | 0.9 | 31.8 |
| UAN-701RM-30C | 10-12 | 3/8-1/2 | 37.0-60.0 | 27.5-44.1 | 300 | 492 | 19 3/8 | 2.9 | 6.38 | 18.0 | 45/64 | 58 | 2 9/32 | 12.7 | 1/2 | 0.9 | 31.8 |

Air Inlet Thread (Pipe Tap) : NPT1/4" Air Hose Size (Inside Diameter) : 9.5mm (3/8")

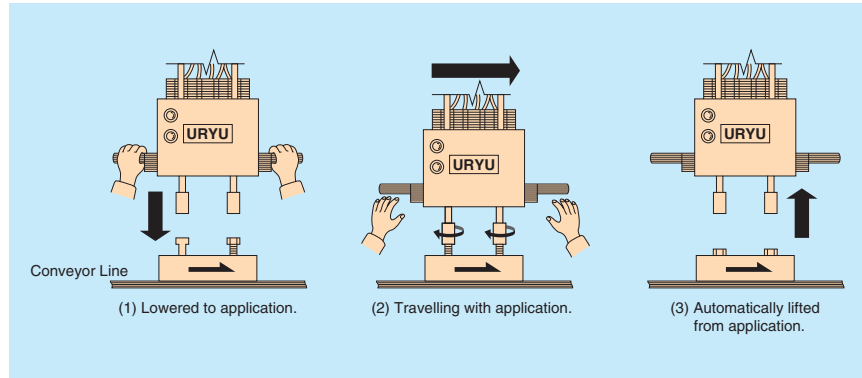
MULTIPLE NUTRUNNERS (ORDER-MADE PRODUCTS EXEMPTED FROM ISO 9001 CERTIFICATION.)

URYU Air Multiple Nutrunners are now very popular in various modern industries, especially in automobile assembly lines, where two or more bolts or nuts must be tightened simultaneously at uniform torque.



AUTOMATIC UNLOADING SYSTEM

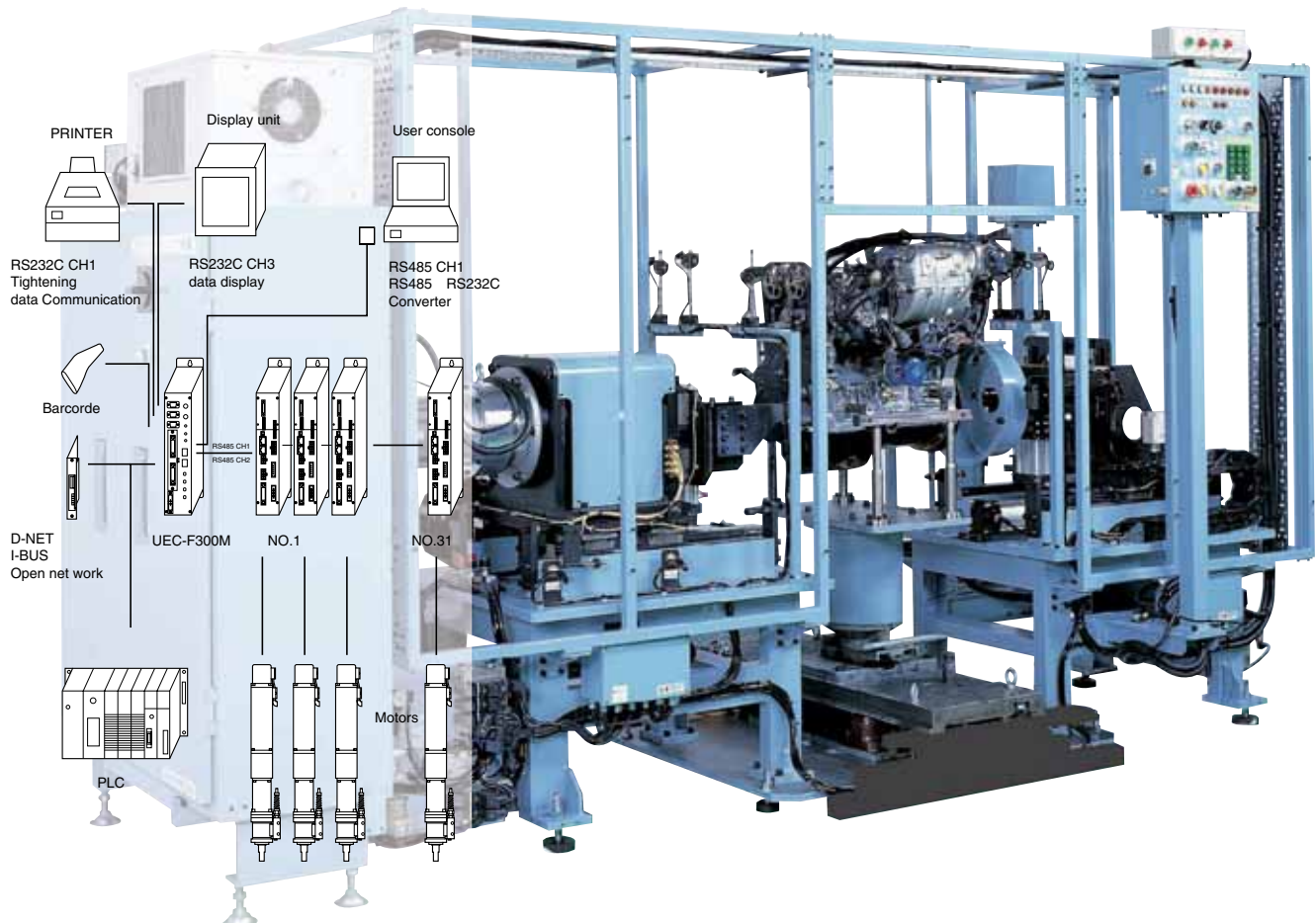
This is the system, called "NAGARA" in Japan, which enables manually-handled multiple nutrunners to make the auto-cycling fastening operation. This system is mainly made up of Air Cylinder, two Spring Balancers and Control Device. After placed on the application flowing on the conveyor line, the multiple nutrunner travels with the application while fastening is going on. Upon completion of fastening operation, the multiple nutrunner is automatically lifted from the application by means of the automatic unloading system. If required, it is possible to have the multiple nutrunner returned to the original position with an air motor.



F SERIES ELECTRIC NUTRUNNER SYSTEM

"F" series nutrunner system, newly developed by ever progressing nutrunner has provided greater space saving due to remarkably streamlined elements and has made open network communication possible.

- 1) Torque Control 2) Angle Control 3) Plastic Area Angle Control 4) Spline Fit-in Control 5) Pin Hole Control 6) Pre-load Control
- 7) Idle Running Control 8) Spline Angle Control 9) Yield Control



URYU can design and manufacture the complete machine to meet customer's demands besides components individual supply. Please feel free to contact nearest URYU distributors.



PHOTO ; MODEL NO.US-350PW 1985
STILL USED AT USERS

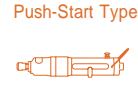


SCREW DRIVERS

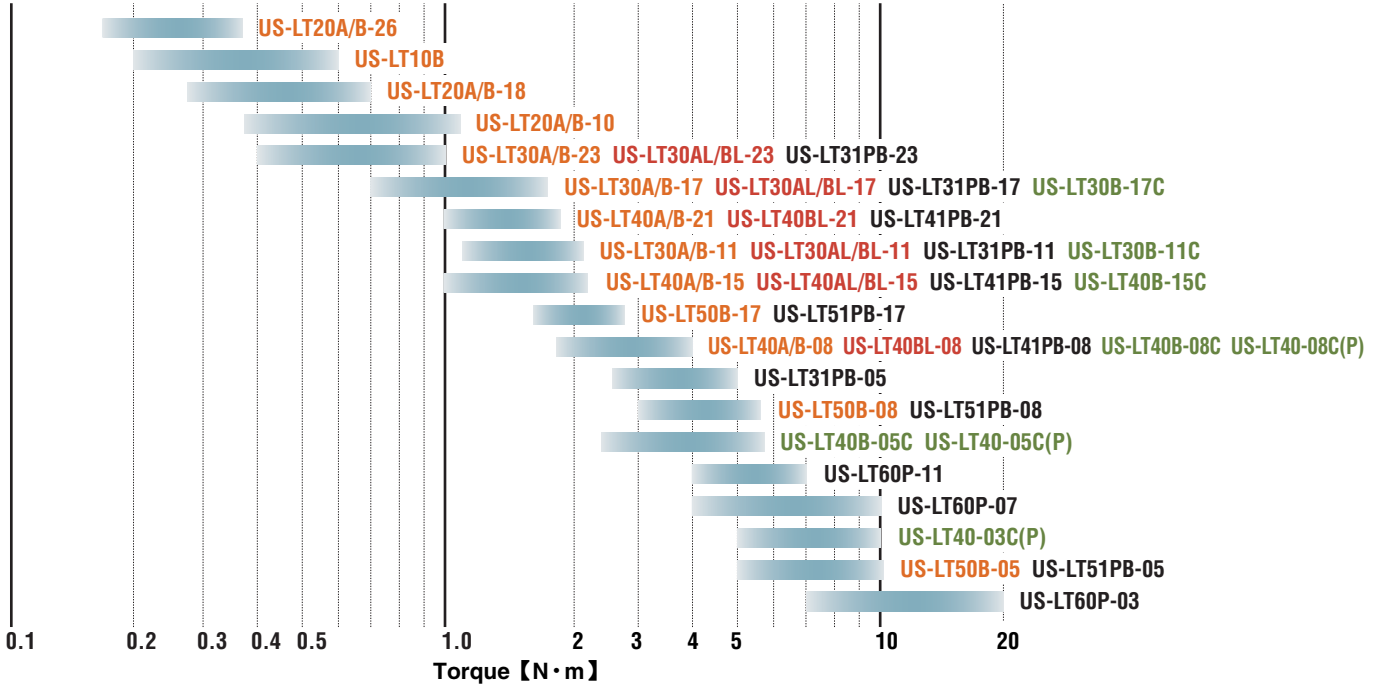
TORQUE CONTROL SCREWDRIVERS
CUSHION CLUTCH TYPE SCREWDRIVERS
OIL-PULSE TYPE SCREWDRIVERS
IMPACT SCREWDRIVERS
DIRECT DRIVE SCREWDRIVERS

*Sound Level measured to ISO 15744

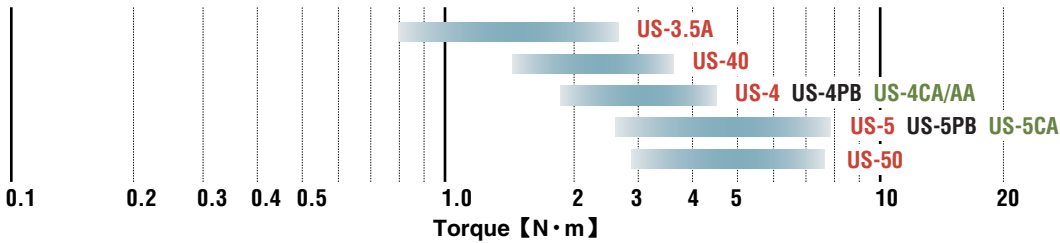
SELECTION CHART



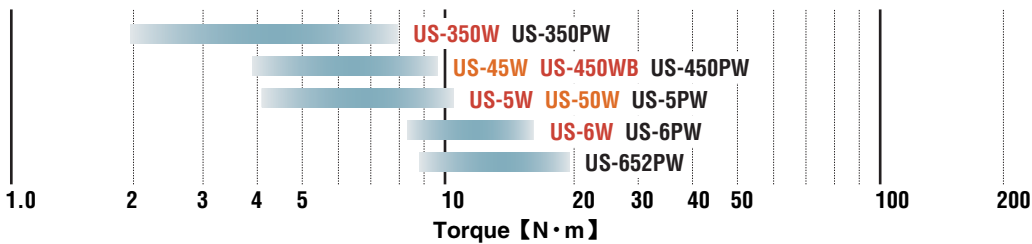
TORQUE-CONTROL TYPE



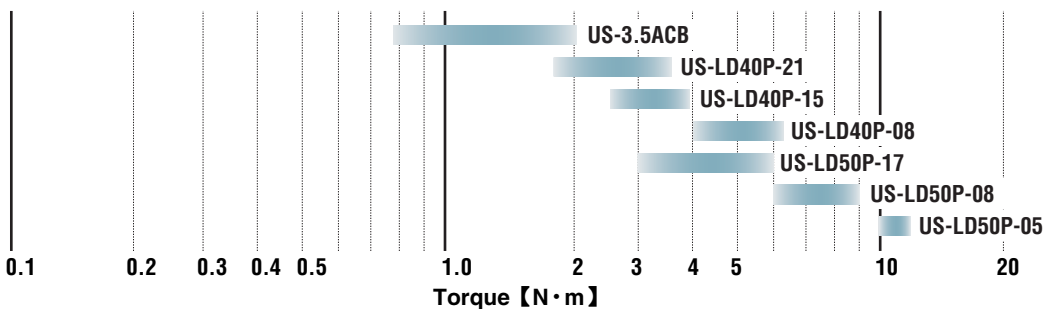
CUSHION CLUTCH TYPE



IMPACT TYPE


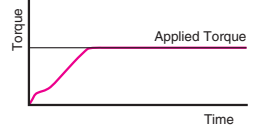
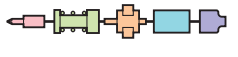
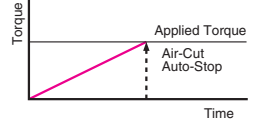

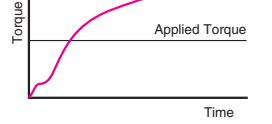
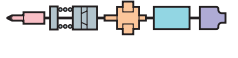
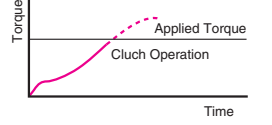
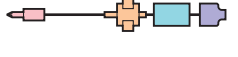
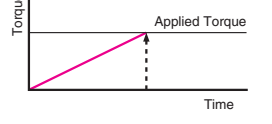


DIRECT DRIVE TYPE



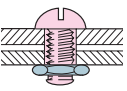
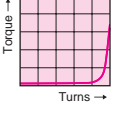
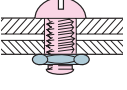
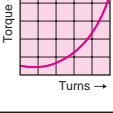
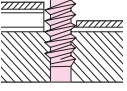
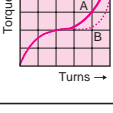
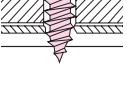
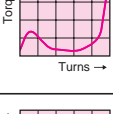
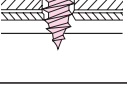
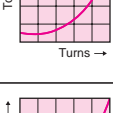

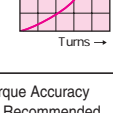
STRUCTURE & PECULIARITY FOR EACH TYPE

URYU offers a wide range of Screwdrivers to meet every application of screw-fastening in all assembly industries. Following are each feature and torque curve.

| | | |
|---|---|--|
| <p>OIL-PULSE TYPE</p> <p>Combined with air motor and the unique hydraulic system equipped with single or double blade impulse unit, Oil-Pulse types offer high productivity, precise fastening & ergonomic working environment.</p> |  |  |
| <p>TORQUE-CONTROL TYPE</p> <p>Featured with unique clutch mechanism patented, US-LT series types are automatically shut off at the pre-set torque assuring precise fastening for high quality control.</p> |  |  |
| <p>IMPACT TYPE</p> <p>Impact type screwdrivers of well-balanced Double-Hammer mechanism deliver tremendously high torque per weight and perform fast operation in driving and removing screws.</p> |  |  |
| <p>CUSHION CLUTCH TYPE</p> <p>Only air motor starts running when throttle lever is operated. The screw bit rotates when operator's push or axial pressure is applied. The output torque can be adjusted by turning regulator to control spring compression or by changing the springs.</p> |  |  |
| <p>DIRECT DRIVE TYPE</p> <p>US-LD series types are direct drive screwdriver which stalls when final torque is reached. Applied torque is controlled by operator and output of the motor. Torque level is adjusted by regulating air pressure.</p> |  |  |

 : Bit
  : Clutch
  : Hammar
  : Control
  : Reduction Gear
  : Oil-Pulse
  : Air Motor
  : Air Inlet

SELECTION GUIDE

| Joint & Torque Curve | Feature | Clutch Type | Model | A | B | C | |
|--|--|----------------|-----------------|---|---|---|--|
| Free Running Hard Stop   | Turns easily until head seats, then instant resistance to torque build-up. | Oil-Pulse | U,UX & ALPHA | | | | |
| | | Impact | UW & US- W | x | | x | |
| | | Torque Control | US-LT series | | | | |
| | | Direct Drive | US-LD series | | | | |
| | | Cushion | Other US series | | | | |
| Soft Stop   | Turns easily until head seats, Gradual resistance as material compresses. | Oil-Pulse | U,UX & ALPHA | | | | |
| | | Impact | UW & US- W | x | | x | |
| | | Torque Control | US-LT series | | | | |
| | | Direct Drive | US-LD series | | | | |
| | | Cushion | Other US series | | | | |
| Self-Tapping Thick Material   | Constant heavy resistance until head seats. Then gradual or sudden build-up. | Oil-Pulse | U,UX & ALPHA | | | | |
| | | Impact | UW & US- W | x | | x | |
| | | Torque Control | US-LT series | x | x | x | |
| | | Direct Drive | US-LD series | | | | |
| | | Cushion | Other US series | | | | |
| Self-Tapping Sheet Metal   | Increasing resistance followed by easing then sudden build-up as head seats. | Oil-Pulse | U,UX & ALPHA | | | | |
| | | Impact | UW & US- W | x | | x | |
| | | Torque Control | US-LT series | x | x | x | |
| | | Direct Drive | US-LD series | | | | |
| | | Cushion | Other US series | | | | |
| Self-Tapping Plastic   | Constant heavy resistance until head seats. Then gradual or sudden build-up. | Oil-Pulse | U,UX & ALPHA | | | | |
| | | Impact | UW & US- W | x | x | x | |
| | | Torque Control | US-LT series | | | | |
| | | Direct Drive | US-LD series | | | | |
| | | Cushion | Other US series | | | | |
| Wood Screws   | Small starting resistance which increases as screw is driven in. Heavier resistance when head seats. | Oil-Pulse | U,UX & ALPHA | | | | |
| | | Impact | UW & US- W | x | x | x | |
| | | Torque Control | US-LT series | x | x | x | |
| | | Direct Drive | US-LD series | | | | |
| | | Cushion | Other US series | | | | |

Remarks : A=Ergonomics B=Job Efficiency C=Torque Accuracy
 Recommendation : =Excellent =Good x=Not Recommended

SCREWDRIVERS

TORQUE CONTROL SCREWDRIVERS

The **US-LT series** Screwdrivers offer the most advanced design and engineering concepts ever brought together. Accuracy, durability, comfort, simplicity and flexibility will be some of the benefits you will experience with their use.



SPECIFICATIONS

Recommended Air Pressure: 0.5MPa(85psi)

| Model | Capacity (Screw Size) | | Torque Range | | Free Speed (Approx.) | Overall Length (about) | | Weight less Bit (about) | | From Center to Outside (about) | | Air Hose Size (inside Dia.) | | Average Air Consumption | |
|-----------------|-----------------------|------------|--------------|-----------|----------------------|------------------------|---------|-------------------------|------|--------------------------------|-------|-----------------------------|-----|-------------------------|----------------------|
| | mm | in | Nm | in-lbs | rpm | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| US-LT10B | 2.6 | No.3 | 0.20-0.60 | 1.8-5.3 | 1000 | 191 | 7 33/64 | 0.29 | 0.63 | 12.0 | 31/64 | 6.35 | 1/4 | 0.15 | 5.2 |
| US-LT20A(B)-26 | 2.2 | No.2 | 0.15-0.35 | 1.3-3.1 | 2600 | 180 | 7 3/32 | 0.34 | 0.68 | 13.0 | 33/64 | 6.35 | 1/4 | 0.16 | 5.6 |
| US-LT20A(B)-18 | 2.6 | No.3 | 0.25-0.70 | 2.2-6.2 | 1800 | 180 | 7 3/32 | 0.34 | 0.68 | 13.0 | 33/64 | 6.35 | 1/4 | 0.16 | 5.6 |
| US-LT20A(B)-10 | 3 | No.5 | 0.35-1.10 | 3.1-9.68 | 1000 | 180 | 7 3/32 | 0.34 | 0.68 | 13.0 | 33/64 | 6.35 | 1/4 | 0.16 | 5.6 |
| US-LT30A(B)-23 | 3 | No.5 | 0.40-1.00 | 3.5-8.8 | 2300 | 187 | 7 23/64 | 0.43 | 0.94 | 15.5 | 39/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT30A(B)-17 | 3.5 | No.6 | 0.70-1.50 | 6.2-13.2 | 1700 | 187 | 7 23/64 | 0.43 | 0.94 | 15.5 | 39/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT30A(B)-11 | 4 | No.8 | 1.10-2.10 | 9.7-18.5 | 1100 | 187 | 7 23/64 | 0.43 | 0.94 | 15.5 | 39/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT40A(B)-21 | 4 | No.8 | 1.00-1.70 | 6.2-15.0 | 2100 | 209 | 8 15/64 | 0.65 | 1.43 | 16.5 | 41/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT40A(B)-15 | 4 | No.8 | 1.00-2.20 | 6.2-19.4 | 1500 | 209 | 8 15/64 | 0.65 | 1.43 | 16.5 | 41/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT40A(B)-08 | 5 | No.10 | 1.60-4.00 | 14.1-35.2 | 800 | 209 | 8 15/64 | 0.65 | 1.43 | 16.5 | 41/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT50B-17 | 4-5 | No.8-No.10 | 1.50-2.60 | 9.7-23.0 | 1700 | 240 | 9 29/64 | 1.00 | 2.20 | 19.5 | 49/64 | 9.50 | 3/8 | 0.50 | 17.5 |
| US-LT50B-08 | 5-6 | No.10-1/4 | 3.00-5.50 | 26.4-48.4 | 800 | 240 | 9 29/64 | 1.00 | 2.20 | 19.5 | 49/64 | 9.50 | 3/8 | 0.50 | 17.5 |
| US-LT50B-05 | 5-6 | No.10-1/4 | 5.00-10.5 | 44.0-92.4 | 480 | 240 | 9 29/64 | 1.00 | 2.20 | 19.5 | 49/64 | 9.50 | 3/8 | 0.50 | 17.5 |
| US-LT30A(B)L-23 | 3 | No.5 | 0.40-1.00 | 3.52-8.8 | 2300 | 229 | 8 15/64 | 0.53 | 1.16 | 15.0 | 19/32 | 6.35 | 1/4 | 0.20 | 5.2 |
| US-LT30A(B)L-17 | 3.5 | No.6 | 0.70-1.50 | 6.2-13.2 | 1700 | 229 | 8 15/64 | 0.53 | 1.16 | 15.0 | 19/32 | 6.35 | 1/4 | 0.20 | 5.2 |
| US-LT30A(B)L-11 | 4 | No.6 | 1.10-2.10 | 9.7-18.5 | 1100 | 229 | 8 15/64 | 0.53 | 1.16 | 15.0 | 19/32 | 6.35 | 1/4 | 0.20 | 5.2 |
| US-LT40BL-21 | 4 | No.8 | 1.00-1.70 | 8.8-15.0 | 2100 | 249 | 9 25/32 | 0.70 | 1.54 | 17.0 | 21/32 | 6.35 | 1/4 | 0.30 | 5.6 |
| US-LT40A(B)L-15 | 4 | No.8 | 1.00-2.20 | 8.8-19.4 | 1500 | 249 | 9 25/32 | 0.70 | 1.54 | 17.0 | 21/32 | 6.35 | 1/4 | 0.30 | 5.6 |
| US-LT40BL-08 | 5 | No.10 | 1.60-4.00 | 14.1-35.2 | 800 | 249 | 9 25/32 | 0.70 | 1.54 | 17.0 | 21/32 | 6.35 | 1/4 | 0.30 | 5.6 |

Air Inlet Size : NPT1/8" for US-LT10/20 series
 NPT1/4" for US-LT30/40/50 series
 Hex. Size of Bit : 5mm (13/64") for A-Type
 6.35mm (1/4") for B-Type

TORQUE CONTROL SCREWDRIVERS

PISTOL TYPE



US-LT60P(P) Series

Optional 9.5mm (3/8") Sq. Drive Anvil is alternatively available. Suffix each model name with (P) as US-LT60P-03(P) or -07(P) when ordering.



Torque reaction bar should be attached for solid support to absorb the reaction when the tool comes to stall.

SCREWDRIVERS

SPECIFICATIONS

Recommended Air Pressure:0.5MPa(85psi)

| Model | Capacity (Screw Size) | | Torque Range | | Free Speed (Approx.) | Overall Length (about) | | Weight less Bit (about) | | From Center to Outside (about) | | Air Hose Size (inside Dia.) | | Average Air Consumption | |
|--------------|-----------------------|------------|--------------|-----------|----------------------|------------------------|---------|-------------------------|------|--------------------------------|-------|-----------------------------|-----|-------------------------|----------------------|
| | mm | in | Nm | in-lbs | rpm | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| US-LT31PB-23 | 2.6 | No.3 | 0.40-1.00 | 3.5-8.8 | 2300 | 170 | 7 1/64 | 0.71 | 1.56 | 16.0 | 39/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT31PB-17 | 2.2 | No.2 | 0.70-1.50 | 6.2-13.2 | 1700 | 170 | 7 1/64 | 0.71 | 1.56 | 16.0 | 39/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT31PB-11 | 2.6 | No.3 | 1.10-2.10 | 9.7-18.5 | 1100 | 170 | 7 1/64 | 0.71 | 1.56 | 16.0 | 39/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT31PB-05 | 3 | No.5 | 2.40-5.00 | 21.1-44.0 | 500 | 189 | 8 3/16 | 0.85 | 1.87 | 16.0 | 39/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT41PB-21 | 3 | No.5 | 1.00-1.70 | 8.8-15.0 | 2500 | 175 | 7 23/32 | 0.87 | 1.91 | 17.0 | 41/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT41PB-15 | 3.5 | No.6 | 1.00-2.20 | 8.8-19.4 | 1500 | 175 | 7 23/32 | 0.87 | 1.91 | 17.0 | 41/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT41PB-08 | 4 | No.8 | 1.60-4.00 | 14.1-35.2 | 800 | 175 | 7 23/32 | 0.87 | 1.91 | 17.0 | 41/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT51PB-17 | 4 | No.8 | 1.50-2.60 | 13.2-22.9 | 1700 | 198 | 8 35/64 | 1.20 | 2.64 | 20.0 | 49/64 | 9.50 | 3/8 | 0.50 | 17.5 |
| US-LT51PB-08 | 4 | No.8 | 3.00-5.50 | 26.4-48.4 | 800 | 198 | 8 35/64 | 1.20 | 2.64 | 20.0 | 49/64 | 9.50 | 3/8 | 0.50 | 17.5 |
| US-LT51PB-05 | 5 | No.10 | 5.00-10.5 | 44.0-92.4 | 480 | 198 | 8 35/64 | 1.20 | 2.64 | 20.0 | 49/64 | 9.50 | 3/8 | 0.50 | 17.5 |
| US-LT60P-11 | 4-5 | No.8-No.10 | 4.00-7.00 | 35.2-61.6 | 1100 | 230 | 9 1/16 | 1.70 | 3.74 | 22.0 | 57/64 | 9.50 | 3/8 | 0.60 | 21.0 |
| US-LT60P-07 | 5-6 | No.10-1/4 | 4.00-10.0 | 35.2-88.0 | 650 | 230 | 9 1/16 | 1.70 | 3.74 | 22.0 | 57/64 | 9.50 | 3/8 | 0.60 | 21.0 |
| US-LT60P-03 | 5-6 | No.10-1/4 | 7.00-20.0 | 61.6-176 | 320 | 230 | 9 1/16 | 1.70 | 3.74 | 22.0 | 57/64 | 9.50 | 3/8 | 0.60 | 21.0 |

Air Inlet Size : NPT1/4" Hex. Size of Bit : 6.35mm (1/4")

TORQUE-CONTROL MECHANISM

1. Neutral

2. Operation

3. Shut-off

External Torque Adjustment (Air Shut-Off)

Set the hand driver through the slot into the key hole on the Adjusting Gear and turn clockwise to increase torque, and anti-clockwise to decrease.

Locking Reverse Button

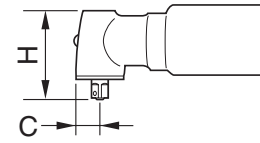
The Reverse Button can be locked during reversing operation. Push the Button and turn clockwise or anti-clockwise for locking.

TORQUE CONTROL SCREWDRIVERS

ANGLE TYPE



Head Sizes



| MODEL | C | | H | |
|----------------|----|-------|------|---------|
| | mm | in | mm | in |
| US-LT30B-17C | 10 | 25/64 | 36.0 | 1 27/64 |
| US-LT30B-11C | 10 | 25/64 | 36.0 | 1 27/64 |
| US-LT40B-15C | 10 | 25/64 | 36.0 | 1 27/64 |
| US-LT40B-08C | 10 | 25/64 | 36.0 | 1 27/64 |
| US-LT40B-05C | 13 | 33/64 | 38.5 | 1 33/64 |
| US-LT40-08C(P) | 10 | 25/64 | 32.0 | 1 17/64 |
| US-LT40-05C(P) | 13 | 33/64 | 35.5 | 1 25/64 |
| US-LT40-03C(P) | 13 | 33/64 | 35.5 | 1 25/64 |

SPECIFICATIONS

Recommended Air Pressure:0.5MPa(85psi)

| Model | Capacity (Screw Size) | | Torque Range | | Free Speed (Approx.) | Overall Length (about) | | Weight less Bit (about) | | From Center to Outside (about) | | Air Hose Size (inside Dia.) | | Average Air Consumption | |
|----------------|-----------------------|------|--------------|-----------|----------------------|------------------------|----------|-------------------------|------|--------------------------------|---------|-----------------------------|-----|-------------------------|----------------------|
| | mm | in | Nm | ft-lbs | rpm | mm | in | kg | lb | mm | in | mm | in | m ³ /min | ft ³ /min |
| US-LT30B-17C | 2.6 | No.3 | 0.70-1.50 | 6.2-13.2 | 1700 | 295 | 10 3/4 | 0.70 | 1.54 | 36.0 | 1 27/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT30B-11C | 2.2 | No.2 | 1.10-2.10 | 9.7-18.5 | 1100 | 295 | 10 3/4 | 0.70 | 1.54 | 36.0 | 1 27/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-LT40B-15C | 2.6 | No.3 | 1.00-2.20 | 8.8-19.4 | 1500 | 314 | 12 25/32 | 0.90 | 1.98 | 36.0 | 1 27/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT40B-08C | 3 | No.5 | 1.60-4.00 | 14.1-35.2 | 800 | 314 | 12 25/32 | 0.90 | 1.98 | 36.0 | 1 27/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT40B-05C | 3 | No.5 | 2.30-5.70 | 20.2-50.2 | 500 | 325 | 13 7/32 | 0.95 | 2.09 | 38.5 | 1 33/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT40-08C(P) | 3.5 | No.6 | 1.60-4.00 | 14.1-35.2 | 800 | 314 | 12 25/32 | 0.90 | 1.98 | 32.0 | 1 17/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT40-05C(P) | 4 | No.8 | 2.30-5.70 | 20.2-50.2 | 500 | 325 | 13 7/32 | 0.95 | 2.09 | 35.5 | 1 25/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| US-LT40-03C(P) | 4 | No.8 | 5.00-10.0 | 44-88 | 300 | 359 | 14 11/64 | 1.10 | 2.42 | 35.5 | 1 25/64 | 6.35 | 1/4 | 0.30 | 10.5 |

Air Inlet Size : NPT1/4"

Hex. Size of Bit : 6.35mm (1/4") for B-Type

Sq Size of Anvil : 6.35mm (1/4") for US-LT40 Series

OPTIONAL CLUTCH SPRINGS FOR US-LT SERIES

| Model Name | Color of Clutch Spring | | Torque Range(soft joint) | | Torque Range(hard joint) | | Code No. |
|------------------|------------------------|--------|--------------------------|------------|--------------------------|------------|-----------|
| | Standard | Option | Nm | in.lbs | Nm | in.lbs | |
| US-LT10B | Black | | 0.20-0.60 | 1.76-5.28 | 0.20-0.60 | 1.76-5.28 | 976-379-0 |
| US-LT20B-10 | Black | | 0.35-1.10 | 3.08-9.68 | 0.34-1.17 | 3.0-10.3 | 976-432-0 |
| | | Red | 0.25-0.70 | 2.2-6.16 | 0.20-0.70 | 1.76-6.16 | 976-431-0 |
| US-LT20B-18 | | Yellow | 0.15-0.35 | 1.32-3.08 | 0.20-0.34 | 1.76-2.99 | 976-430-0 |
| | Red | | 0.25-0.70 | 2.2-6.16 | 0.34-0.67 | 3.0-5.9 | 976-431-0 |
| US-LT20B-26 | | Yellow | 0.15-0.35 | 1.32-3.08 | 0.29-0.34 | 2.55-2.99 | 976-430-0 |
| | Yellow | | 0.15-0.35 | 1.32-3.08 | 0.39-0.44 | 3.4-3.9 | 976-430-0 |
| US-LT31PB-05 | Red | | 2.40-5.00 | 21.12-44.0 | 2.40-5.00 | 21.12-44.0 | 976-493-0 |
| | | Pink | 1.00-2.80 | 8.8-24.64 | 1.00-2.80 | 8.8-24.64 | 976-471-0 |
| US-LT30B/31PB-11 | Blue | | 1.10-2.10 | 9.68-18.48 | 1.10-2.10 | 9.68-18.48 | 976-472-0 |
| | | Red | 0.70-1.80 | 6.16-15.84 | 0.70-1.80 | 6.16-15.84 | 976-493-0 |
| | | Pink | 0.40-1.00 | 3.52-8.8 | 0.40-1.00 | 3.52-8.8 | 976-471-0 |
| US-LT30B/31PB-17 | Red | | 0.70-1.50 | 6.16-13.2 | 0.83-1.76 | 7.3-15.5 | 976-493-0 |
| | | Pink | 0.40-1.00 | 3.52-8.8 | 0.59-0.98 | 5.19-8.62 | 976-471-0 |
| US-LT30B/31PB-23 | Pink | | 0.40-1.00 | 3.52-8.8 | 0.78-1.08 | 6.86-9.5 | 976-471-0 |
| US-LT40-03C | Red | | 5.00-10.0 | 44.0-88.0 | 5.00-10.0 | 44-88 | 976-516-0 |
| US-LT40B/41PB-08 | Black | | 1.60-4.00 | 14.08-35.2 | 1.60-4.00 | 14.08-35.2 | 976-515-0 |
| | | Red | 1.00-2.20 | 8.8-19.36 | 1.00-2.20 | 8.8-19.36 | 976-516-0 |
| | | Yellow | 1.00-1.70 | 8.8-14.96 | 1.00-1.70 | 8.8-14.96 | 976-517-0 |
| US-LT40B/41PB-15 | Red | | 1.00-2.20 | 8.8-19.36 | 1.00-2.20 | 8.8-19.36 | 976-516-0 |
| | | Yellow | 1.00-1.70 | 8.8-14.96 | 1.00-1.70 | 8.8-14.96 | 976-517-0 |
| US-LT40B/41PB-21 | Yellow | | 1.00-1.70 | 8.8-14.96 | 1.00-1.70 | 8.8-14.96 | 976-517-0 |
| US-LT50B/51PB-05 | Black | | 5.0-10.5 | 44.0-92.4 | 5.0-10.5 | 44-92.4 | 976-620-0 |
| | | Red | 3.0-5.5 | 26.4-48.4 | 3.0-5.5 | 26.4-48.4 | 976-614-0 |
| | | Yellow | 1.5-2.6 | 13.2-22.88 | 1.5-2.6 | 13.2-22.88 | 976-588-0 |
| US-LT50B/51PB-08 | Red | | 3.0-5.5 | 26.4-48.4 | 3.0-5.5 | 26.4-48.4 | 976-614-0 |
| | | Yellow | 1.5-2.6 | 13.2-22.88 | 1.5-2.6 | 13.2-22.88 | 976-588-0 |
| US-LT50B/51PB-17 | Yellow | | 1.5-2.6 | 13.2-22.88 | 1.5-2.6 | 13.2-22.88 | 976-588-0 |

CUSHION CLUTCH SCREWDRIVERS

STRAIGHT TYPE



The output torque can be adjusted by turning the adjusting nut to control spring compression or by changing the suitable spring.



Adjusting Springs of three different tensions are available for wider adjustment of torque.

SPECIFICATIONS

Recommended Air Pressure: 0.4MPa(57psi)

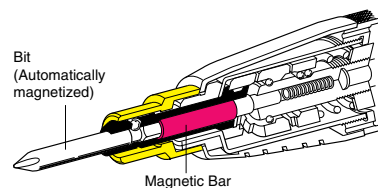
| Model | Capacity (Screw Size) | | Free Speed (Approx.) | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Hex. Size of Bit | | Air Hose Size | | Average Air Consumption | |
|---------|-----------------------|-------|----------------------|------------------------|---------|-----------------------------------|------|--------------------------------|-------|------------------|-------|---------------|-----|-------------------------|---------------------|
| | mm | in | | rpm | mm | in | kg | lb | mm | in | mm | in | mm | in | m ³ /min |
| US-3.5A | 4 | No.8 | 2000 | 196 | 7 31/64 | 0.60 | 1.39 | 17.0 | 43/64 | 5.00 | 13/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-3.5B | 4 | No.8 | 2000 | 214 | 8 27/64 | 0.63 | 1.39 | 17.0 | 43/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-4 | 4 | No.8 | 1400 | 236 | 7 3/32 | 0.95 | 2.09 | 20.0 | 25/32 | 5.00 | 13/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-5 | 5 | No.10 | 1400 | 236 | 7 3/32 | 1.10 | 2.42 | 21.0 | 53/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 |

Air Inlet Size : NPT1/4"

MAGNET TYPE



Cutaway view of Magnet type head



The standard bit contacts the built-in Magnetic Bar to be magnetized and holds the screw.

SPECIFICATIONS

Recommended Air Pressure: 0.4MPa(57psi)

| Model | Capacity (Screw Size) | | Free Speed (Approx.) | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Hex. Size of Bit | | Air Hose Size | | Average Air Consumption | |
|----------|-----------------------|------|----------------------|------------------------|--------|-----------------------------------|------|--------------------------------|-------|------------------|-----|---------------|-----|-------------------------|---------------------|
| | mm | in | | rpm | mm | in | kg | lb | mm | in | mm | in | mm | in | m ³ /min |
| US-3.5MA | 4 | No.8 | 2000 | 198 | 7 3/32 | 0.65 | 0.68 | 17.0 | 43/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 |

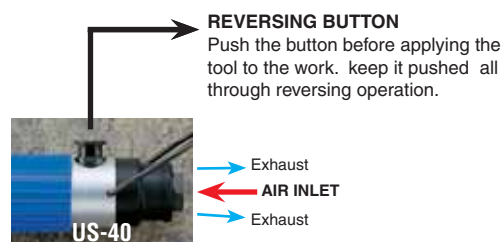
Air Inlet Size : NPT1/4"

PUSH-TO-START THROTTLE TYPE



Non-Lever type Throttle

Operator's axial pressure pushes up the operating rod to open the throttle valve automatically.



SPECIFICATIONS

Recommended Air Pressure: 0.4MPa(57psi)

| Model | Capacity (Screw Size) | | Free Speed (Approx.) | Overall Length (about) | | Weight less Socket or Bit (about) | | From Center to Outside (about) | | Hex. Size of Bit | | Air Hose Size | | Average Air Consumption | |
|-------|-----------------------|-------|----------------------|------------------------|---------|-----------------------------------|------|--------------------------------|-------|------------------|-------|---------------|-----|-------------------------|---------------------|
| | mm | in | | rpm | mm | in | kg | lb | mm | in | mm | in | mm | in | m ³ /min |
| US-40 | 4 | No.8 | 2200 | 225 | 8 55/64 | 0.56 | 1.23 | 17.0 | 43/64 | 5.00 | 13/64 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-50 | 5 | No.10 | 1200 | 245 | 9 41/64 | 0.90 | 1.98 | 18.0 | 45/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.30 | 10.7 |

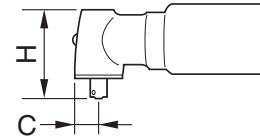
Air Inlet Size : NPT1/4"

CUSHION CLUTCH SCREWDRIVERS

PISTOL / ANGLE TYPE



Head Sizes



| MODEL | C | | H | |
|-----------|------|-------|------|---------|
| | mm | in | mm | in |
| US-3.5ACB | 10.0 | 25/64 | 36.5 | 1 33/64 |
| US-4CA | 12.0 | 15/32 | 45.0 | 1 25/32 |
| US-5CA | 12.0 | 15/32 | 45.0 | 1 25/32 |

SPECIFICATIONS

Recommended Air Pressure:0.4MPa(57psi)

| Model | Capacity (Screw Size) | | Free Speed (Approx.) | Overall Length (about) | | Weight Less Bit (about) | | From Center to Outside (about) | | Air Inlet Size | Hex. Size of Bit | | Average Air Consumption | |
|------------|-----------------------|-------|----------------------|------------------------|---------|-------------------------|------|--------------------------------|-------|----------------|------------------|-------|-------------------------|---------------------|
| | mm | in | | rpm | mm | in | kg | lb | mm | | in | mm | in | m ³ /min |
| US-3.5PB | 4 | No.8 | 2000 | 200 | 7 7/8 | 0.75 | 1.65 | 17.0 | 43/64 | NPT1/4 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-4PB | 4 | No.8 | 1400 | 223 | 8 25/32 | 1.15 | 2.53 | 20.0 | 49/64 | NPT1/4 | 5.00 | 13/64 | 0.20 | 7.0 |
| US-5PB | 5 | No.8 | 1400 | 242 | 9 17/32 | 1.30 | 2.86 | 21.0 | 33/64 | NPT1/4 | 6.35 | 1/4 | 0.20 | 7.0 |
| *US-3.5ACB | 4 | No.8 | 2000 | 200 | 7 7/8 | 0.65 | 1.43 | 10.0 | 25/64 | NPT1/4 | 6.35 | 1/4 | 0.20 | 7.0 |
| US-4CA | 4 | No.8 | 1400 | 225 | 8 7/8 | 1.10 | 2.24 | 12.0 | 29/64 | NPT1/4 | 6.35 | 1/4 | 0.30 | 10.7 |
| US-5CA | 5 | No.10 | 500 | 256 | 10 5/64 | 1.40 | 3.08 | 12.0 | 29/64 | NPT1/4 | 6.35 | 1/4 | 0.30 | 10.7 |

*US-3.5ACB is not the cushion clutch type but the direct drive type. Air Hose Size (Inside Diameter) : 6.35mm (1/4")

DIRECT DRIVE SCREWDRIVERS

PISTOL TYPE



By replacing Reverse Lever, Operator can use either left or right hand.

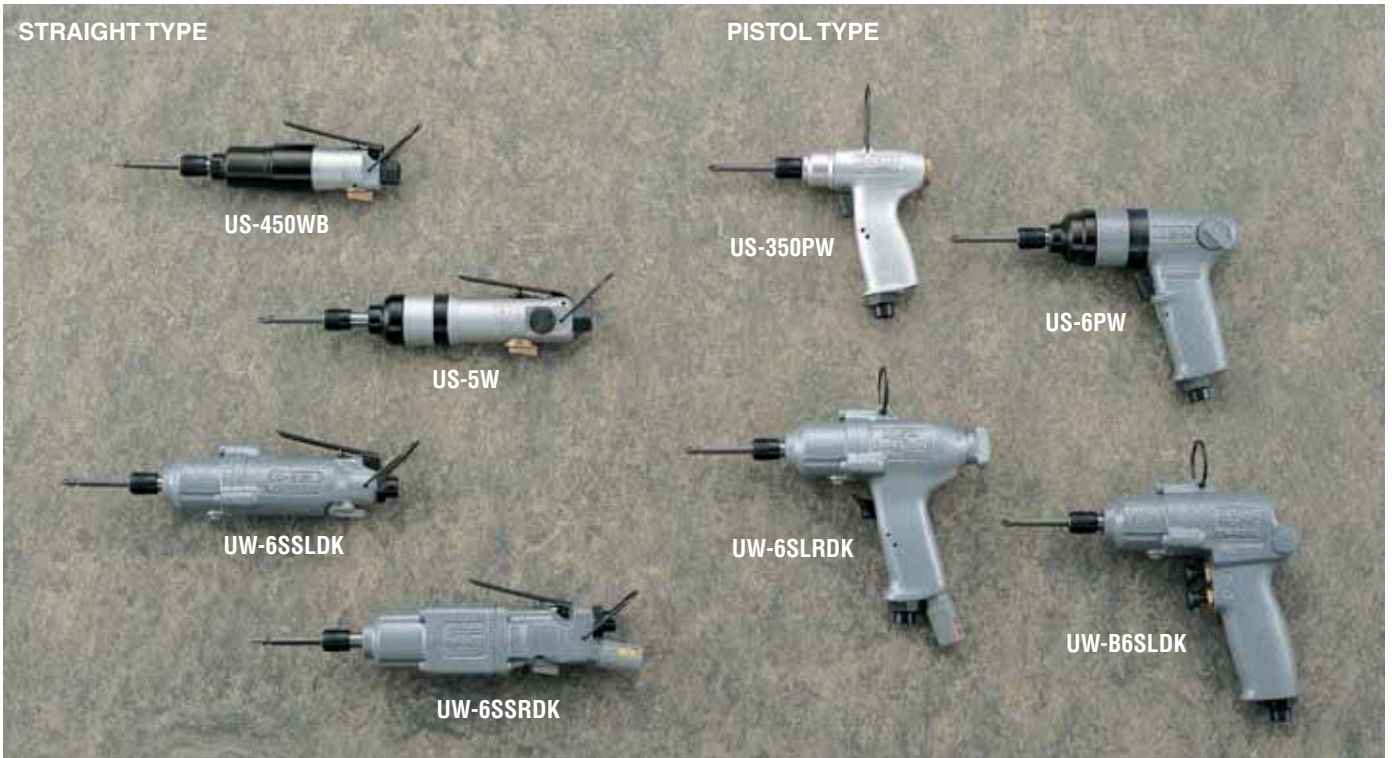
SPECIFICATIONS

Recommended Air Pressure : 0.5MPa(71psi)

| Model | Capacity (Screw Size) | | Torque Range | | | | Free Speed (about) | Overall Length (about) | | Weight Less Bit (about) | From Center to Outside (about) | | Average Air Consumption | | |
|-------------|-----------------------|-------|--------------|--------|------------|--------|--------------------|------------------------|---------|-------------------------|--------------------------------|------|-------------------------|---------------------|----------------------|
| | | | Soft Joint | | Hard Joint | | | | | | | | | | |
| | mm | in | Nm | ft-lbs | Nm | ft-lbs | rpm | mm | in | kg | lb | mm | in | m ³ /min | ft ³ /min |
| US-LD40P-21 | 4 | No.8 | 2.0 | 1.5 | 2.8 | 2.1 | 2500 | 130 | 5 1/14 | 0.7 | 1.54 | 17.0 | 43/64 | 0.40 | 14.0 |
| US-LD40P-15 | 4 | No.8 | 3.0 | 2.2 | 3.2 | 2.4 | 1700 | 130 | 5 1/14 | 0.7 | 1.54 | 17.0 | 43/64 | 0.40 | 14.0 |
| US-LD40P-08 | 5 | No.10 | 4.8 | 3.6 | 5.7 | 4.2 | 940 | 130 | 5 1/14 | 0.7 | 1.54 | 17.0 | 43/64 | 0.40 | 14.0 |
| US-LD50P-17 | 4 | No.8 | 3.5 | 2.6 | 5.9 | 4.4 | 1900 | 150 | 5 29/32 | 0.9 | 2.01 | 20.0 | 49/64 | 0.50 | 17.5 |
| US-LD50P-08 | 5 | No.10 | 6.5 | 4.8 | 7.8 | 5.8 | 900 | 153 | 6 1/32 | 0.9 | 2.01 | 20.0 | 49/64 | 0.50 | 17.5 |
| US-LD50P-05 | 5 | No.10 | 10.0 | 7.4 | 11.2 | 8.3 | 500 | 153 | 6 1/32 | 0.9 | 2.01 | 20.0 | 49/64 | 0.50 | 17.5 |

Air Inlet Size : NPT1/4" Air Hose Size : 6.35mm (1/4") Hex.Size of Bit : 6.35mm (1/4")

IMPACT TYPE SCREWDRIVERS



SPECIFICATIONS (STRAIGHT TYPE)

| Model | Capacity (Screw Size) | | Free Speed (Approx.) rpm | Overall Length (about) | | Weight Less Bit (about) | | From Center to Outside (about) | | Hex. Size of Bit | | Air Hose Size (inside Dia) | | Average Air Consumption | | Recommended Air Pressure | |
|------------|-----------------------|-------|--------------------------|------------------------|---------|-------------------------|------|--------------------------------|--------|------------------|-----|----------------------------|-----|-------------------------|----------------------|--------------------------|-----|
| | mm | in | | mm | in | kg | lb | mm | in | mm | in | mm | in | m ³ /min | ft ³ /min | Mpa | psi |
| US-350W | 4 | No.8 | 14000 | 168 | 6 5/8 | 0.40 | 0.88 | 17.0 | 43/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 | 0.4 | 57 |
| US-450WB | 5 | No.10 | 11000 | 161 | 6 5/16 | 0.55 | 1.21 | 18.5 | 47/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 | 0.4 | 57 |
| US-45W | 5 | No.10 | 12000 | 183 | 7 13/64 | 0.50 | 1.10 | 17.0 | 43/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 | 0.4 | 57 |
| US-5W | 5 | No.10 | 9500 | 198 | 7 51/64 | 0.80 | 1.60 | 20.0 | 27/32 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 | 0.4 | 57 |
| US-6W | 6 | 1/4 | 9500 | 187 | 7 23/64 | 0.80 | 1.76 | 22.5 | 57/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.30 | 10.5 | 0.4 | 57 |
| UW-6SSLRDK | 6 | 1/4 | 8500 | 245 | 9 21/32 | 0.87 | 1.98 | 31.0 | 1 7/32 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-6SSRDK | 6 | 1/4 | 7500 | 241 | 9 31/64 | 0.97 | 2.20 | 29.5 | 1 5/32 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-6SSHRDK | 8 | 5/16 | 7300 | 265 | 10 7/16 | 1.26 | 2.75 | 27.5 | 1 5/64 | 6.35 | 1/4 | 9.5 | 3/8 | 0.35 | 12.4 | 0.6 | 85 |
| UW-6SSLDK | 6 | 1/4 | 8500 | 203 | 7 63/64 | 0.90 | 1.98 | 31.0 | 1 7/32 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-6SSDK | 6 | 1/4 | 7500 | 202 | 7 61/64 | 1.00 | 2.20 | 28.0 | 1 7/64 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-6SSHDK | 8 | 5/16 | 7500 | 220 | 8 21/32 | 1.25 | 2.86 | 27.5 | 1 5/64 | 6.35 | 1/4 | 9.5 | 3/8 | 0.35 | 12.4 | 0.6 | 85 |

Air Inlet Size : NPT1/4"

SPECIFICATIONS (PISTOL TYPE)

| Model | Capacity (Screw Size) | | Free Speed (Approx.) rpm | Overall Length (about) | | Weight Less Bit (about) | | From Center to Outside (about) | | Hex. Size of Bit | | Air Hose Size (inside Dia) | | Average Air Consumption | | Recommended Air Pressure | |
|------------|-----------------------|-------|--------------------------|------------------------|---------|-------------------------|------|--------------------------------|--------|------------------|-----|----------------------------|-----|-------------------------|----------------------|--------------------------|-----|
| | mm | in | | mm | in | kg | lb | mm | in | mm | in | mm | in | m ³ /min | ft ³ /min | Mpa | psi |
| US-350PW | 4 | No.8 | 15000 | 121 | 4 49/64 | 0.53 | 1.16 | 17.0 | 43/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 | 0.4 | 57 |
| US-450PW | 5 | No.10 | 14000 | 151 | 5 15/16 | 0.75 | 1.65 | 17.0 | 43/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.20 | 7.0 | 0.4 | 57 |
| US-5PW | 5 | No.10 | 9500 | 168 | 6 5/8 | 0.95 | 2.10 | 20.0 | 25/32 | 6.35 | 1/4 | 6.35 | 1/4 | 0.30 | 10.5 | 0.4 | 57 |
| US-6PW | 6 | 1/4 | 9500 | 170 | 6 11/16 | 1.00 | 2.20 | 23.0 | 57/64 | 6.35 | 1/4 | 6.35 | 1/4 | 0.30 | 10.5 | 0.4 | 57 |
| US-652PW | 6 | 1/4 | 9000 | 155 | 6 7/64 | 0.85 | 1.87 | 23.0 | 15/16 | 6.35 | 1/4 | 6.35 | 1/4 | 0.35 | 8.8 | 0.5 | 57 |
| UW-6SLRDK | 6 | 1/4 | 8500 | 182 | 7 11/64 | 0.97 | 2.13 | 31.0 | 1 7/32 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-6SHBRDK | 8 | 5/16 | 7300 | 170 | 6 11/16 | 1.36 | 2.99 | 28.0 | 1 7/64 | 6.35 | 1/4 | 9.5 | 3/8 | 0.35 | 12.4 | 0.6 | 85 |
| UW-6SLDK | 6 | 1/4 | 8500 | 182 | 7 11/64 | 0.97 | 2.13 | 31.0 | 1 7/32 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-B6SLDK | 6 | 1/4 | 8500 | 173 | 6 13/16 | 1.00 | 2.20 | 31.0 | 1 7/32 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-6SDK | 6 | 1/4 | 7500 | 186 | 7 21/64 | 1.22 | 2.68 | 27.5 | 1 5/64 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-6SADK | 6 | 1/4 | 7500 | 150 | 5 29/32 | 1.10 | 2.47 | 27.5 | 1 5/64 | 6.35 | 1/4 | 9.5 | 3/8 | 0.30 | 10.5 | 0.6 | 85 |
| UW-6SHDK | 8 | 5/16 | 7500 | 190 | 7 31/64 | 1.45 | 3.10 | 28.0 | 1 7/64 | 6.35 | 1/4 | 9.5 | 3/8 | 0.35 | 12.4 | 0.6 | 85 |

Air Inlet Size : NPT1/4"

OIL-PULSE TYPE SCREWDRIVERS



SPECIFICATIONS (STRAIGHT TYPE)

Recommended Air Pressure:0.6MPa(85psi)

| Model | Capacity (Screw Size) | | Torque Range | | Free Speed (Approx.) rpm | Overall Length (about) | | Weight Less Bit (about) | | From Center to Outside (about) | | Air Hose Size (inside Dia) | | Average Air Consumption | |
|----------|-----------------------|-----------|--------------|-----------|--------------------------|------------------------|---------|-------------------------|------|--------------------------------|--------|----------------------------|----------------------|-------------------------|--------------------|
| | mm | in | Nm | ft-lbs | | mm | in | kg | lb | mm | in | m ³ /min | ft ³ /min | dB(A) | m/sec ² |
| U-310SD | 3-4 | No.5-No.8 | 2.50-3.10 | 1.8-2.2 | 11000 | 222 | 8 45/64 | 0.62 | 1.50 | 18.0 | 47/64 | 9.5 | 3/8 | 0.15 | 5.3 |
| U-350SD | 3-4 | No.5-No.8 | 3.50-5.80 | 2.6-3.1 | 10500 | 238 | 9 3/8 | 0.71 | 1.50 | 22.0 | 47/64 | 9.5 | 3/8 | 0.15 | 5.3 |
| U-410SD | 4-5 | No.8-10 | 7.00-10.0 | 5.2-7.4 | 10500 | 240 | 9 27/32 | 0.80 | 1.80 | 22.0 | 7/8 | 9.5 | 3/8 | 0.15 | 5.3 |
| UX-450SD | 5 | No.10 | 8.00-14.0 | 5.9-10.4 | 9500 | 239 | 9 11/64 | 0.80 | 1.80 | 22.0 | 7/8 | 6.35 | 1/4 | 0.20 | 7.0 |
| UX-500SD | 5-6 | No.10-1/4 | 13.0-20.0 | 9.6-14.8 | 9300 | 244 | 9 39/64 | 0.92 | 2.00 | 22.0 | 7/8 | 6.35 | 1/4 | 0.25 | 8.8 |
| UX-612SD | 6-8 | 1/4-5/16 | 16.0-28.0 | 11.9-20.8 | 9300 | 253 | 9 61/64 | 1.00 | 2.20 | 23.0 | 29/32 | 6.35 | 1/4 | 0.30 | 10.7 |
| UX-700SD | 8 | 5/16 | 20.0-36.0 | 14.6-26.6 | 9000 | 249 | 9 51/64 | 1.27 | 2.80 | 26.5 | 1 3/64 | 6.35 | 1/4 | 0.35 | 12.3 |
| UL30SD | 5 | No.10 | 6.00-12.0 | 4.4-8.9 | 5000 | 209 | 8 15/64 | 0.62 | 1.40 | 20.5 | 51/64 | 6.5 | 1/4 | 0.23 | 8.1 |
| UL40SD | 5-6 | No.10-1/4 | 9.00-20.0 | 6.7-14.8 | 5000 | 209 | 8 15/64 | 0.62 | 1.40 | 20.5 | 51/64 | 6.5 | 1/4 | 0.23 | 8.1 |
| UL50SD | 6-8 | 1/4-5/16 | 18.0-28.0 | 13.3-20.7 | 6400 | 214 | 8 27/64 | 0.74 | 1.60 | 22.0 | 7/8 | 6.5 | 1/4 | 0.35 | 19.3 |
| UL60SD | 8 | 5/16 | 22.0-35.0 | 16.3-25.9 | 6700 | 212 | 8 11/32 | 0.77 | 1.70 | 22.0 | 7/8 | 8.0 | 5/16 | 0.45 | 15.8 |

Air Inlet Size : NPT1/4" Hex. Size of Bit : 6.35mm (1/4")

SPECIFICATIONS (PISTOL TYPE)

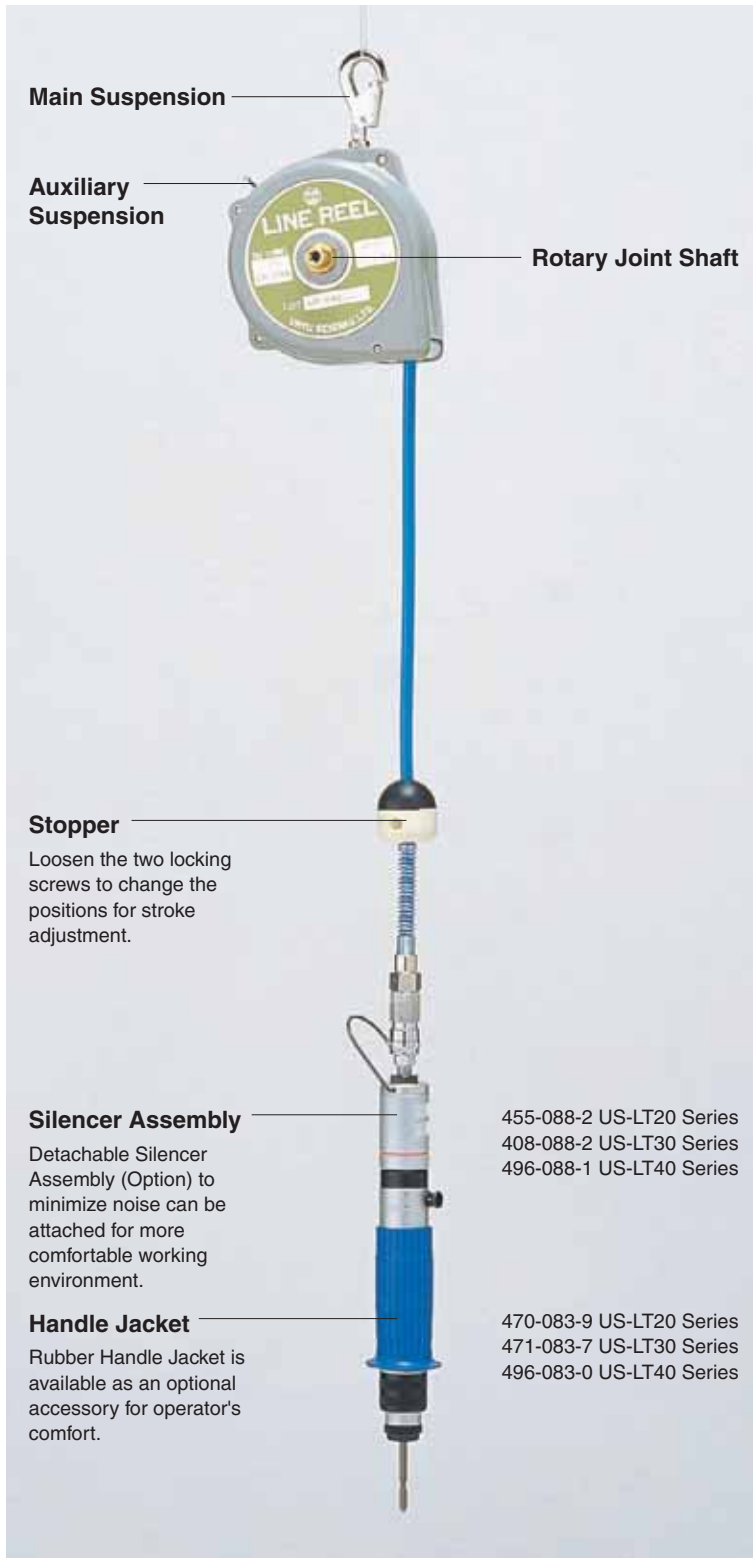
Recommended Air Pressure:0.6MPa(85psi)

| Model | Capacity (Screw Size) | | Torque Range | | Free Speed (Approx.) rpm | Overall Length (about) | | Weight Less Bit (about) | | From Center to Outside (about) | | Air Hose Size (inside Dia) | | Average Air Consumption | |
|---------|-----------------------|-----------|--------------|-----------|--------------------------|------------------------|---------|-------------------------|------|--------------------------------|-------|----------------------------|----------------------|-------------------------|--------------------|
| | mm | in | Nm | ft-lbs | | mm | in | kg | lb | mm | in | m ³ /min | ft ³ /min | dB(A) | m/sec ² |
| U-350D | 3-4 | No.5-No.8 | 3.5-5.8 | 2.6-4.3 | 11500 | 154 | 6 1/16 | 0.76 | 1.60 | 22.0 | 7/8 | 6.35 | 1/4 | 0.15 | 5.3 |
| U-410D | 4-5 | No.8-10 | 7.0-10.0 | 5.2-7.4 | 10000 | 188 | 7 13/32 | 1.00 | 2.20 | 22.0 | 7/8 | 6.35 | 1/4 | 0.15 | 5.3 |
| UX-450D | 5 | No.10 | 8.0-14.0 | 5.9-10.4 | 9500 | 152 | 5 63/64 | 0.85 | 1.90 | 22.0 | 7/8 | 6.35 | 1/4 | 0.20 | 7.0 |
| UX-500D | 5-6 | No.10-1/4 | 13.0-20.0 | 9.6-14.8 | 9300 | 152 | 5 63/64 | 0.85 | 1.90 | 22.0 | 7/8 | 6.35 | 1/4 | 0.25 | 8.8 |
| UX-612D | 6-8 | 1/4-5/16 | 16.0-28.0 | 11.8-20.7 | 9300 | 165 | 6 1/2 | 0.95 | 2.10 | 23.0 | 29/32 | 6.35 | 1/4 | 0.30 | 10.5 |
| UX-700D | 8 | 5/16 | 20.0-36.0 | 14.8-26.6 | 9000 | 174 | 6 27/32 | 1.38 | 3.00 | 26.0 | 1.00 | 6.35 | 1/4 | 0.35 | 12.3 |
| UL30D | 5 | No.10 | 6.0-12.0 | 4.4-8.9 | 5700 | 137 | 5 25/64 | 0.70 | 1.5 | 20.5 | 13/16 | 6.35 | 1/4 | 0.20 | 7.0 |
| UL40D | 5-6 | No.10-1/4 | 11.0-20.0 | 8.1-14.8 | 6100 | 137 | 5 25/64 | 0.70 | 1.5 | 20.5 | 13/16 | 6.35 | 1/4 | 0.20 | 7.0 |
| UL50D | 6-8 | 1/4-5/16 | 18.0-28.0 | 13.3-20.7 | 6500 | 146 | 5 3/4 | 0.77 | 1.7 | 22.0 | 55/64 | 6.35 | 1/4 | 0.30 | 10.5 |
| UL60D | 8 | 5/16 | 22.0-35.0 | 16.3-25.9 | 6700 | 143 | 5 5/8 | 0.82 | 1.8 | 22.0 | 55/64 | 8.0 | 5/16 | 0.40 | 14.0 |

Air Inlet Size : NPT1/4" Hex. Size of Bit : 6.35mm (1/4")

AIR HOSE BALANCER

The "Line Reel" air hose balancer, without any hampering chain or rope to balance the tool, contributes to keep the work bench and work area uncluttered for safer operation, higher productivity, less operator's fatigue and longer tool life.



Main Suspension

Auxiliary Suspension

Rotary Joint Shaft

Stopper

Loosen the two locking screws to change the positions for stroke adjustment.

Silencer Assembly

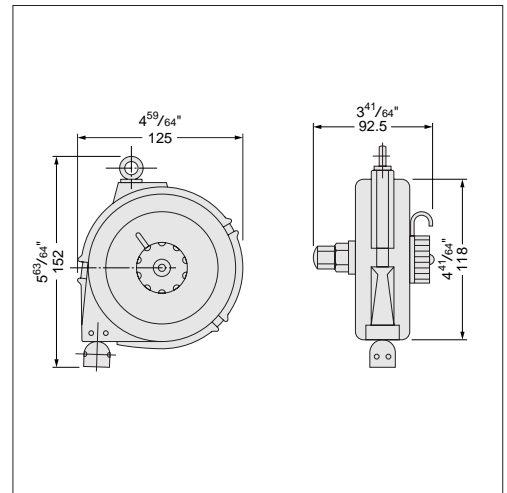
Detachable Silencer Assembly (Option) to minimize noise can be attached for more comfortable working environment.

Handle Jacket

Rubber Handle Jacket is available as an optional accessory for operator's comfort.

455-088-2 US-LT20 Series
408-088-2 US-LT30 Series
496-088-1 US-LT40 Series

470-083-9 US-LT20 Series
471-083-7 US-LT30 Series
496-083-0 US-LT40 Series



Locking Spring

Push to release the Adjustment Dial for anti-clockwise turn.



Adjustment Dial Turn

clockwise for heavier load and counter-clockwise for lighter load.

SPECIFICATIONS

| Model | Max Suspending Capacity | | Air Hose Size I.D. x O.D. x Length | | Weight (about) | | Max Stroke | | Max Air Pressure | |
|-------------|-------------------------|------|---------------------------------------|--------------------------|----------------|------|------------|---------|------------------|-----|
| | kg | lb | mm | in | kg | lb | mm | in | Mpa | psi |
| LR-09B(200) | 1.4 | 3.08 | 5 x 8.5 x 2000 | 13/64 x 21/64 x 78 47/64 | 1.89 | 0.86 | 700 | 27 9/16 | 1 | 142 |

SCREWDRIVERS ACCESSORIES

| | | |
|----------------|---|---|
| GROUP OF TOOLS | A | US-LT20A, LT30A & 40A, US-3.5A, US-40, US-4, US-3.5PA, US-4PB |
| | B | US- , UW- D, UX/U- D, US-LT10B, LT30B, LT40B, LT50B & LT60, US-5, US-50, US-3.5PB, US-5PB |
| | C | US-LT10B |
| | D | US-3.5MA |
| | E | US-LT30B-11C & 17C, US-LT40B-08C & 15C, US-3.5ACB, US-4CA, US-5CA |

PHILLIPS BITS

| Group | Bit | Phillips No.1 | | | Phillips No.2 | | | Phillips No.3 | | | |
|-------|---------|---------------|---------|-----------|---------------|---------|-----------|---------------|---------|-----------|-----------|
| | | mm (L) | in | Code No. | mm (L) | in | Code No. | mm (L) | in | Code No. | |
| A | A-1 | 70 | 2 3/4 | 916-300-0 | 70 | 2 3/4 | 916-310-0 | 75 | 2 61/64 | 916-320-0 | |
| | | 100 | 3 15/16 | 916-301-0 | 100 | 3 15/16 | 916-311-0 | 120 | 4 23/32 | 916-321-0 | |
| | | 120 | 4 23/32 | 916-306-0 | 120 | 4 23/32 | 916-316-0 | 150 | 5 29/32 | 916-323-0 | |
| | | 150 | 5 29/32 | 916-302-0 | 150 | 5 29/32 | 916-312-0 | 200 | 7 7/8 | 916-322-0 | |
| | A-2 | 70 | 2 3/4 | 916-700-0 | 70 | 2 3/4 | 916-710-0 | | | | |
| | | 100 | 3 15/16 | 916-701-0 | 100 | 3 15/16 | 916-711-0 | 70 | 2 3/4 | 916-710-0 | |
| B | B-1 | 75 | 2 61/64 | 916-400-0 | 75 | 2 61/64 | 916-410-0 | 75 | 2 61/64 | 916-420-0 | |
| | | 100 | 3 15/16 | 916-401-0 | 100 | 3 15/16 | 916-411-0 | 100 | 3 15/16 | 916-421-0 | |
| | | 120 | 4 23/32 | 916-405-0 | 120 | 4 23/32 | 916-416-0 | 120 | 4 23/32 | 916-426-0 | |
| | | 150 | 5 29/32 | 916-402-0 | 150 | 5 29/32 | 916-412-0 | 150 | 5 29/32 | 916-422-0 | |
| | B-2 | 75 | 2 61/64 | 916-800-0 | 75 | 2 61/64 | 916-810-0 | 75 | 2 61/64 | 916-820-0 | |
| | | 100 | 3 15/16 | 916-801-0 | 100 | 3 15/16 | 916-811-0 | 100 | 3 15/16 | 916-821-0 | |
| C | | Phillips No.0 | 50 | 1 31/32 | 916-135-0 | | | | | | |
| | | Phillips No.0 | 50 | 1 31/32 | 916-137-0 | | | | | | |
| | | Phillips No.0 | 70 | 2 3/4 | 916-138-0 | | | | | | |
| D | | Phillips No.0 | 40 | 1 37/64 | 916-530-0 | 40 | 1 37/64 | 916-550-0 | 40 | 1 37/64 | 916-560-0 |
| | | Phillips No.0 | 40 | 1 37/64 | 916-540-0 | | | | | | |
| E | | Phillips No.0 | 23 | 1 37/64 | 916-500-0 | 23 | 29/32 | 916-510-0 | 23 | 29/32 | 916-520-0 |
| | | Phillips No.0 | 30 | 1 37/64 | 916-501-0 | 30 | 1 3/16 | 916-511-0 | 30 | 13/16 | 916-521-0 |

* Bits are available in five different hardness to meet every application.

Suffix the code number of required bit with following identification letter : C (54-58HRC) is standard, A (46-50 HRC), B (50-54 HRC), D (58-62 HRC) and E (over 62 HRC)

* Double ended Phillips No.3 Bits listed in B-2 can be used only with US-6series and UW-6series with special Driver Anvil for these models.

SLOTTED HEAD BITS & FINDERS

| Group | Bit | Overall Length(L) | | Code No. | FINDER | Overall Length(L) | | Code No. | FINDER | Code No. |
|-------|-----|-------------------|---------|-----------|--------|-------------------|-------|-----------|--------|-----------|
| | | mm | in | | | mm | in | | | |
| A | | 51 | 2 1/64 | 916-020-0 | | 19 | 3/4 | 917-300-0 | | |
| | | 75 | 2 61/64 | 916-021-0 | | | | | | |
| | | 100 | 3 15/16 | 916-022-0 | | | | | | |
| | | 150 | 5 29/32 | 916-023-0 | | | | | | |
| B | | 56 | 2 13/64 | 916-030-0 | | 23 | 29/32 | 917-400-0 | | 917-350-0 |
| | | 75 | 2 61/64 | 916-031-0 | | | | | | |
| | | 100 | 3 15/16 | 916-032-0 | | | | | | |
| C | | 150 | 5 29/32 | 916-033-0 | | 16 | 5/8 | 917-031-0 | | |
| | | 49.2 | 1 15/16 | 916-084-0 | | | | | | |

HEXAGONAL SOCKET BITS

| Group | Hex. Socket Bit | Nominal Screw Size | Dimensions | | | | | | | | | | Code No. |
|-------|-----------------|--------------------|------------|-------|-----|---------|-----|-------|------|-------|----|---------|-----------|
| | | | A | | B | | C | | D | | E | | |
| | | | mm | in | mm | in | mm | in | mm | in | mm | in | |
| A | | M3.5 | 10.0 | 25/64 | 100 | 3 15/16 | 3.0 | 1/8 | 6.0 | 16/64 | 30 | 1 13/16 | 918-104-0 |
| | | | 11.0 | 7/16 | 100 | 3 15/16 | 3.0 | 1/8 | 7.0 | 9/32 | 30 | 1 13/16 | 918-107-0 |
| | | | 11.5 | 29/64 | 100 | 3 15/16 | 3.5 | 9/64 | 7.5 | 19/64 | 30 | 1 13/16 | 918-108-0 |
| | | | 12.0 | 15/32 | 100 | 3 15/16 | 4.5 | 11/64 | 8.0 | 5/16 | 30 | 1 13/16 | 918-109-0 |
| | | | 13.0 | 33/64 | 100 | 3 15/16 | 4.5 | 11/64 | 9.0 | 23/64 | 30 | 1 13/16 | 918-111-0 |
| | | | 13.0 | 33/64 | 100 | 3 15/16 | 4.5 | 11/64 | 9.5 | 3/8 | 30 | 1 13/16 | 918-112-0 |
| B | | M3 | 9.5 | 3/8 | 100 | 3 15/16 | 3.0 | 1/8 | 5.5 | 7/32 | 30 | 1 13/16 | 918-202-0 |
| | | | 10.0 | 25/64 | 100 | 3 15/16 | 4.0 | 1/8 | 6.0 | 15/64 | 30 | 1 13/16 | 918-205-0 |
| | | | 11.0 | 7/16 | 100 | 3 15/16 | 3.2 | 1/8 | 7.0 | 9/32 | 30 | 1 13/16 | 918-206-0 |
| | | | 12.0 | 15/32 | 100 | 3 15/16 | 4.5 | 11/64 | 8.0 | 5/16 | 30 | 1 13/16 | 918-208-0 |
| | | | 12.0 | 15/32 | 100 | 3 15/16 | 4.5 | 11/64 | 9.0 | 23/64 | 27 | 1 1/16 | 918-212-0 |
| | | | 15.0 | 19/32 | 100 | 3 15/16 | 5.5 | 7/32 | 10.0 | 25/64 | 27 | 1 1/16 | 918-216-0 |
| C | | M4 | 11.0 | 7/16 | 28 | 17/64 | 3.2 | 1/8 | 7.0 | 9/32 | 7 | 9/32 | 918-304-0 |
| | | | 12.0 | 15/32 | 28 | 17/64 | 4.5 | 11/64 | 8.0 | 5/16 | 7 | 5/16 | 918-305-0 |
| | | | 15.0 | 19/32 | 31 | 17/32 | 5.5 | 7/32 | 10.0 | 25/64 | 10 | 25/64 | 918-307-0 |

ABRASIVE TOOLS

DIE GRINDERS
MIDGET GRINDERS
MINI ANGLE GRINDERS
HORIZONTAL GRINDERS
ANGLE GRINDERS
VERTICAL GRINDERS
SANDERS
POLISHERS
ORBITAL SANDERS

PHOTO ; MODEL NO.USG-4SU 1981
STILL USED AT USERS

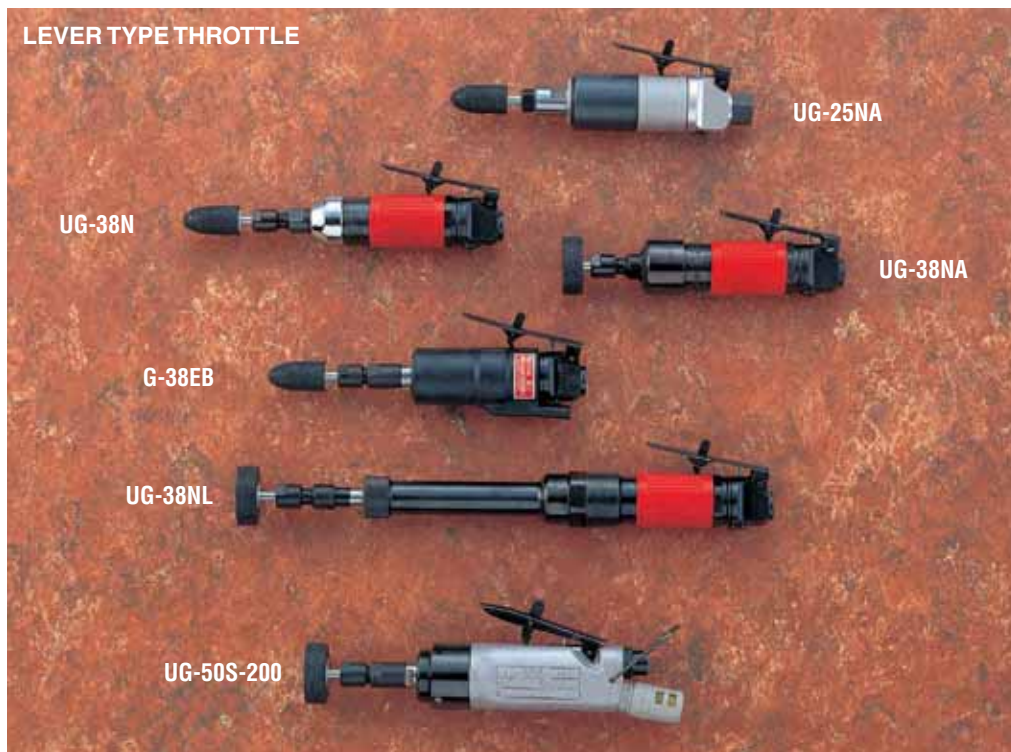


*Sound Level measured to ISO 15744

DIE GRINDERS

URYU Die Grinders, ruggedly designed for mounted wheels and carbide burrs, are ideal for rapid metal removal or precise finishing such as weld cleaning, deburring, die contouring and repair, blending and smoothing.

LEVER TYPE THROTTLE



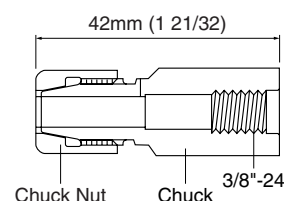
Self-Locking Lever attachment

To prevent accidental start of motor.



COLLET CHUCKS

G-38EB & UG-50S-200



- 923-534-0 3mm
- 923-535-0 6mm
- 923-536-0 1/4"

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

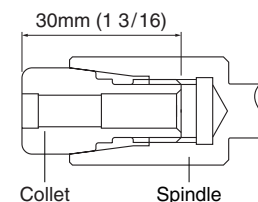
| Model | Collet Chuck Size | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Weight less wheel (about) | | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|------------|-------------------|-----|------------------------|-------------------|------------------------|----------|---------------------------|------|-----------------------------|---------------|-----|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | | kg | lb | in | mm |
| UG-25NA | 6 | 1/4 | 23500 | 210 | 153 | 6 1/32 | 0.53 | 1.17 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |
| G-38EB | 6 | 1/4 | 20000 | 315 | 165 | 6 1/2 | 0.65 | 1.43 | NPT1/4 | 9.5 | 3/8 | 0.4 | 14.0 |
| UG-38N | 6 | 1/4 | 25000 | 315 | 164 | 6 15/32 | 0.57 | 1.25 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |
| UG-38NA | 6 | 1/4 | 22000 | 315 | 165 | 6 1/2 | 0.65 | 1.43 | NPT1/4 | 9.5 | 3/8 | 0.4 | 14.0 |
| UG-38NL | 6 | 1/4 | 21000 | 315 | 317 | 12 31/64 | 0.92 | 2.02 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |
| UG-50S-200 | 6 | 1/4 | 23000 | 195 | 198 | 7 51/64 | 0.60 | 1.32 | NPT1/4 | 9.5 | 3/8 | 0.4 | 14.0 |

ROLL TYPE THROTTLE



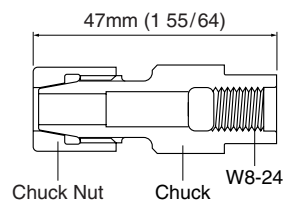
COLLET CHUCKS

UG-25N & UG-50S-200A



- 923-001-0 3mm
- 923-003-0 6mm
- 923-005-0 1/8"
- 923-006-0 1/4"

UG-38N Series



- 923-510-0 3mm
- 923-512-0 6mm
- 923-515-0 1/8"
- 923-516-0 1/4"

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

| Model | Collet Chuck Size | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Weight less wheel (about) | | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|----------|-------------------|-----|------------------------|-------------------|------------------------|----------|---------------------------|------|-----------------------------|---------------|-----|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | | kg | lb | in | mm |
| UG-25NSA | 6 | 1/4 | 23500 | 210 | 145 | 5 23/32 | 0.56 | 1.23 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |
| UG-38NS | 6 | 1/4 | 25000 | 315 | 174 | 6 27/32 | 0.60 | 1.32 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |
| UG-38NSA | 6 | 1/4 | 22000 | 315 | 174 | 6 27/32 | 0.65 | 1.43 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |
| UG-38NSL | 6 | 1/4 | 21000 | 315 | 330 | 12 63/64 | 0.95 | 2.09 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |

DIE GRINDERS & MIDGET GRINDER

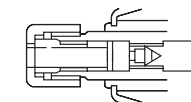
UMG-450, muffled by a rubber silencer to minimize sound level for operator's comfort, is a super speed model for precise grinding and polishing for die making.



Fasten the collet chuck firmly to avoid loosening of the cutting tool.

COLLET CHUCKS

UG-45H



| | |
|-----------|------|
| 923-170-0 | 6mm |
| 923-171-0 | 1/4" |
| 923-172-0 | 8mm |

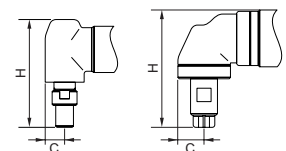
SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

| Model | Collet Chuck Size | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Weight less wheel (about) | | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|---------|-------------------|------|------------------------|-------------------|--------------------------|---------|---------------------------|------|-----------------------------|---------------|------|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | | kg | lb | in | mm |
| UMG-450 | 3 | No.5 | 45000 | 37 | 145 | 5 45/64 | 0.19 | 0.42 | NPT1/4 | 4.8 | 3/16 | 0.2 | 7.0 |
| UG-45H | 6 | 1/4 | 18000 | 375 | 196 | 7 23/62 | 0.80 | 1.76 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22.0 |

MINI ANGLE GRINDERS

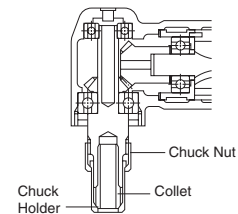
UG-20A series are specially designed for applications of hard-to-reach areas.



| Model | C(about) | H(about) |
|-------------|----------|----------|
| UG-20A-200 | 14.5mm | 80.0mm |
| UG-20A-120 | 14.5mm | 80.0mm |
| UG-50S-200A | 19.5mm | 87.0mm |

ERICKSON Type COLLET CHUCKS

UG-20A Series 923-207-0 6mm
923-201-0 1/4"



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

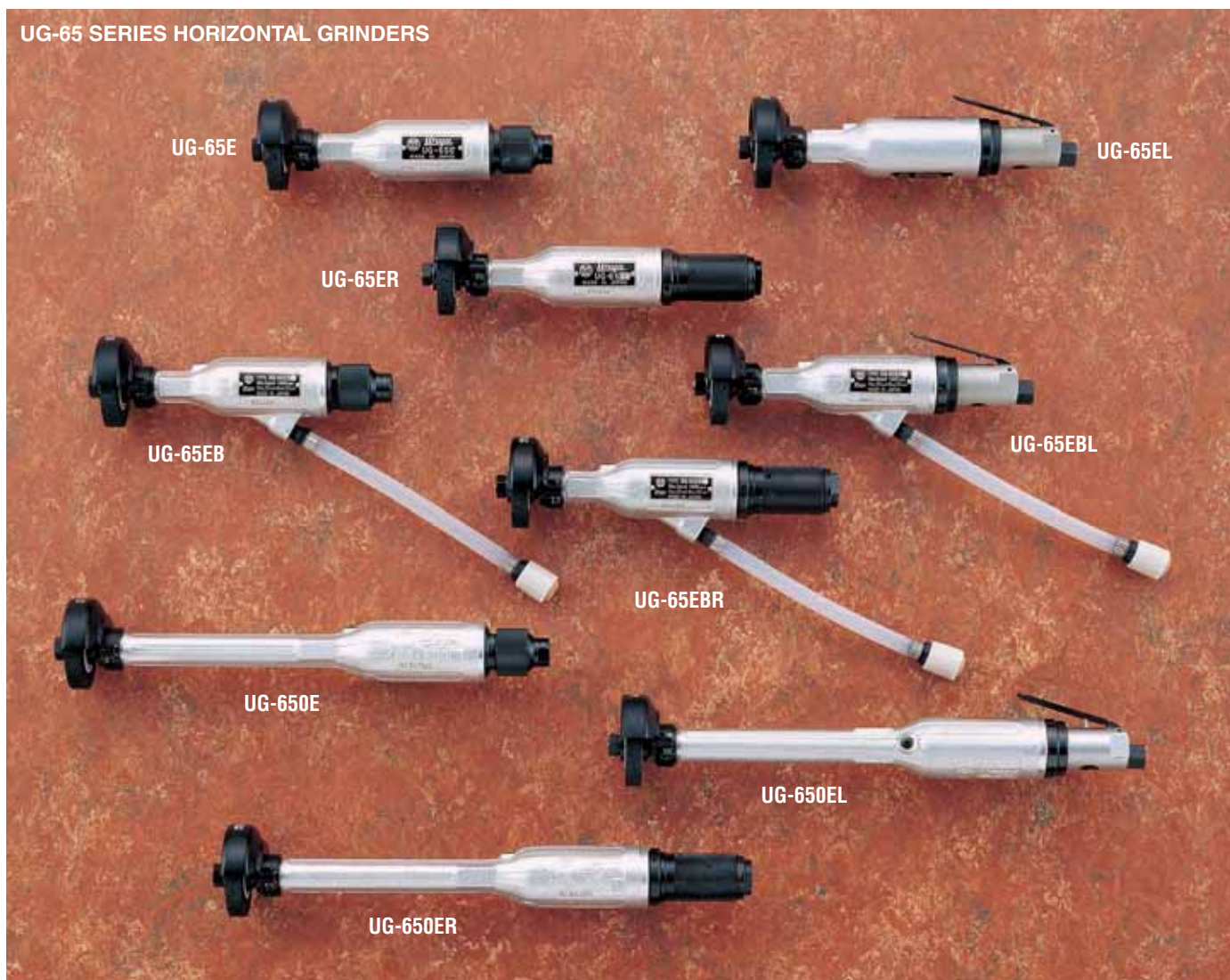
| Model | Collet Chuck Size | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Weight less wheel (about) | | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|-------------|-------------------|-----|------------------------|-------------------|--------------------------|---------|---------------------------|------|-----------------------------|---------------|-----|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | | kg | lb | in | mm |
| UG-20A-200 | 6 | 1/4 | 20000 | 113 | 131 | 5 3/16 | 0.50 | 1.10 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |
| UG-20A-120 | 6 | 1/4 | 12000 | 113 | 131 | 5 3/16 | 0.50 | 1.10 | NPT1/4 | 9.5 | 3/8 | 0.3 | 10.7 |
| UG-50S-200A | 6 | 1/4 | 20000 | 195 | 195 | 7 45/64 | 0.90 | 1.98 | NPT1/4 | 9.5 | 3/8 | 0.4 | 14.0 |

HORIZONTAL GRINDERS

LIGHT TYPE UG-65 SERIES (NON-GOVERNED)

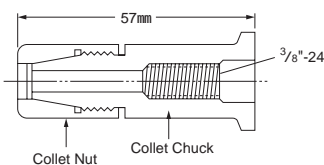
Available in 9 models with three different throttle handles, these lightweight and compact grinders are generally used in all metal working industries for every grinding and polishing job.

UG-65 SERIES HORIZONTAL GRINDERS



Collet chucks of 6mm and 1/4" capacity are available as optional accessories for mandrel mounted abrasives, cutters and files.

| | 6mm | 1/4" |
|-----------|-----------|-----------|
| UNF3/8-24 | 923-530-0 | 923-532-0 |
| W3/8-16 | 923-523-0 | 923-526-0 |



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

| Type | Model | Throttle Handle | Capacity (Wheel Size) | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Weight less wheel (about) | | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|--------------|----------|-----------------|-----------------------|-------|------------------------|-------------------|------------------------|----------|---------------------------|------|-----------------------------|---------------|-----|-------------------------|----|
| | | | mm | in | | | rpm | w | mm | in | | kg | lb | in | mm |
| Standard | UG-65E | Sleeve | 63.5 | 2 1/2 | 14600 | 412 | 242 | 9 27/32 | 1.25 | 2.75 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |
| | UG-65ER | Self-closing | 63.5 | 2 1/2 | 14600 | 412 | 271 | 10 43/64 | 1.50 | 3.30 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |
| | UG-65EL | Lever | 63.5 | 2 1/2 | 14600 | 412 | 272 | 10 23/32 | 1.40 | 3.08 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |
| Rear Exhaust | UG-65EB | Sleeve | 63.5 | 2 1/2 | *14600 | 412 | 242 | 9 27/32 | 1.25 | 2.75 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |
| | UG-65EBR | Self-closing | 63.5 | 2 1/2 | *14600 | 412 | 271 | 10 43/64 | 1.50 | 3.30 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |
| | UG-65EBL | Lever | 63.5 | 2 1/2 | *14600 | 412 | 272 | 10 23/32 | 1.40 | 3.08 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |
| Extended | UG-650E | Sleeve | 63.5 | 2 1/2 | 14600 | 412 | 390 | 15 23/64 | 1.72 | 3.78 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |
| | UG-650ER | Self-closing | 63.5 | 2 1/2 | 14600 | 412 | 419 | 16 1/2 | 1.97 | 4.33 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |
| | UG-650EL | Lever | 63.5 | 2 1/2 | 14600 | 412 | 420 | 16 17/32 | 1.55 | 3.41 | NPT1/4 | 9.5 | 3/8 | 0.6 | 22 |

* Speed without silencer

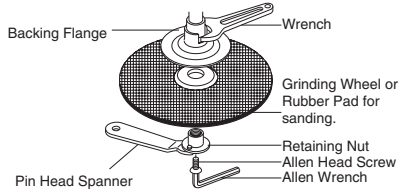
ABRASIVE TOOLS

ANGLE GRINDERS

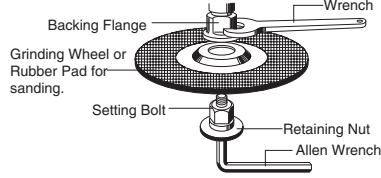
These handy angle grinders are ideally suited for close-quarter work with less operator fatigue.

The governed models are recommended for heavy-duty production grinding. Two (2) different types of wheel retainers except AG-50 series are available for customers' choice or practice.

"OUT" type : 3/8"-24 Spindle with large FLANGE

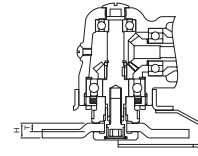


"IN" type : URYU special Spindle with small FLANGE



WHEEL SIZE

| Model Name | Thickness | Height |
|---------------|-----------|--------|
| AG-50 Series | 3-5mm | 9mm |
| AG-100 Series | 4-6mm | 10mm |
| USG-4S | 4-6mm | 10mm |
| USG-7S | 6-8mm | 13mm |
| USG-L180D | 6-8mm | 13mm |



ANGLE GRINDERS



ABRASIVE TOOLS

SPECIFICATIONS

Recommended Air Pressure: 0.6MPa (85psi)

| Model | Capacity (Wheel size) | | Max. Free Speed (about) | Rated Horse Power | Overall Length (about) | | Overall Height (about) | | Weight less wheel (about) | | Type of Spindle | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|---------------|-----------------------|----|-------------------------|-------------------|------------------------|----------|------------------------|---------|---------------------------|------|-----------------|-----------------------------|---------------|-----|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | mm | in | | | kg | lb | in | mm |
| AG-50(OUT) | 50 | 2 | 15000 | 337 | 147 | 5 25/32 | 54 | 2 1/2 | 0.63 | 1.40 | OUT | NPT1/4 | 9.5 | 3/8 | 0.45 | 16.0 |
| AG-50L(OUT) | 50 | 2 | 15000 | 337 | 140 | 5 34/64 | 54 | 2 1/2 | 0.63 | 1.40 | OUT | NPT1/4 | 9.5 | 3/8 | 0.45 | 16.0 |
| AG-100(IN) | 100 | 4 | 13500 | 315 | 175 | 6 57/64 | 68 | 2 43/64 | 0.95 | 2.10 | IN | NPT1/4 | 9.5 | 3/8 | 0.50 | 18.0 |
| AG-100L(IN) | 100 | 4 | 13500 | 315 | 179 | 7 3/64 | 68 | 2 43/64 | 1.05 | 2.30 | IN | NPT1/4 | 9.5 | 3/8 | 0.50 | 18.0 |
| AG-100(OUT) | 100 | 4 | 13500 | 315 | 175 | 6 57/64 | 68 | 2 43/64 | 0.95 | 2.10 | OUT | NPT1/4 | 9.5 | 3/8 | 0.50 | 18.0 |
| AG-100L(OUT) | 100 | 4 | 13500 | 315 | 179 | 7 3/64 | 68 | 2 43/64 | 1.05 | 2.30 | OUT | NPT1/4 | 9.5 | 3/8 | 0.50 | 18.0 |
| AG-100S(IN) | 100 | 4 | 13500 | 315 | 175 | 6 57/64 | 68 | 2 43/64 | 1.00 | 2.20 | IN | NPT1/4 | 9.5 | 3/8 | 0.50 | 18.0 |
| AG-100SL(IN) | 100 | 4 | 13500 | 315 | 179 | 7 3/64 | 68 | 2 43/64 | 1.10 | 2.40 | IN | NPT1/4 | 9.5 | 3/8 | 0.50 | 18.0 |
| AG-100S(OUT) | 100 | 4 | 13500 | 315 | 179 | 7 3/64 | 68 | 2 43/64 | 1.00 | 2.20 | OUT | NPT1/4 | 9.5 | 3/8 | 0.50 | 18.0 |
| AG-100SL(OUT) | 100 | 4 | 13500 | 315 | 179 | 7 3/64 | 68 | 2 43/64 | 1.10 | 2.40 | OUT | NPT1/4 | 9.5 | 3/8 | 0.50 | 18.0 |
| USG-4S | 100 | 4 | 13500 | 450 | 236 | 9 19/64 | 94 | 3 45/64 | 1.65 | 3.60 | IN | NPT1/4 | 9.5 | 3/8 | 0.60 | 22.0 |
| USG-7S | 180 | 7 | 7600 | 962 | 296 | 11 21/32 | 120 | 4 47/64 | 3.00 | 6.60 | IN | NPT3/8 | 12.7 | 1/2 | 1.30 | 46.0 |
| USG-L180D | 180 | 7 | 7600 | 888 | 267 | 9 1/2 | 92 | 3 5/8 | 2.70 | 5.90 | IN | NPT3/8 | 12.7 | 1/2 | 1.00 | 36.0 |

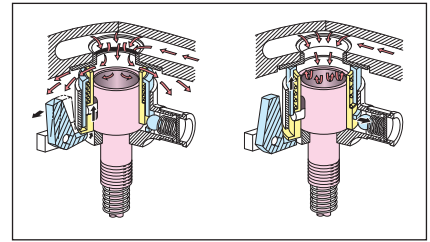
VERTICAL GRINDERS

100mm(4") & 125mm(5") Type

USG series * These gear-less vertical grinders of simple non-governed design offer powerful and trouble free operation.

180mm(7") & 230mm(9") Type

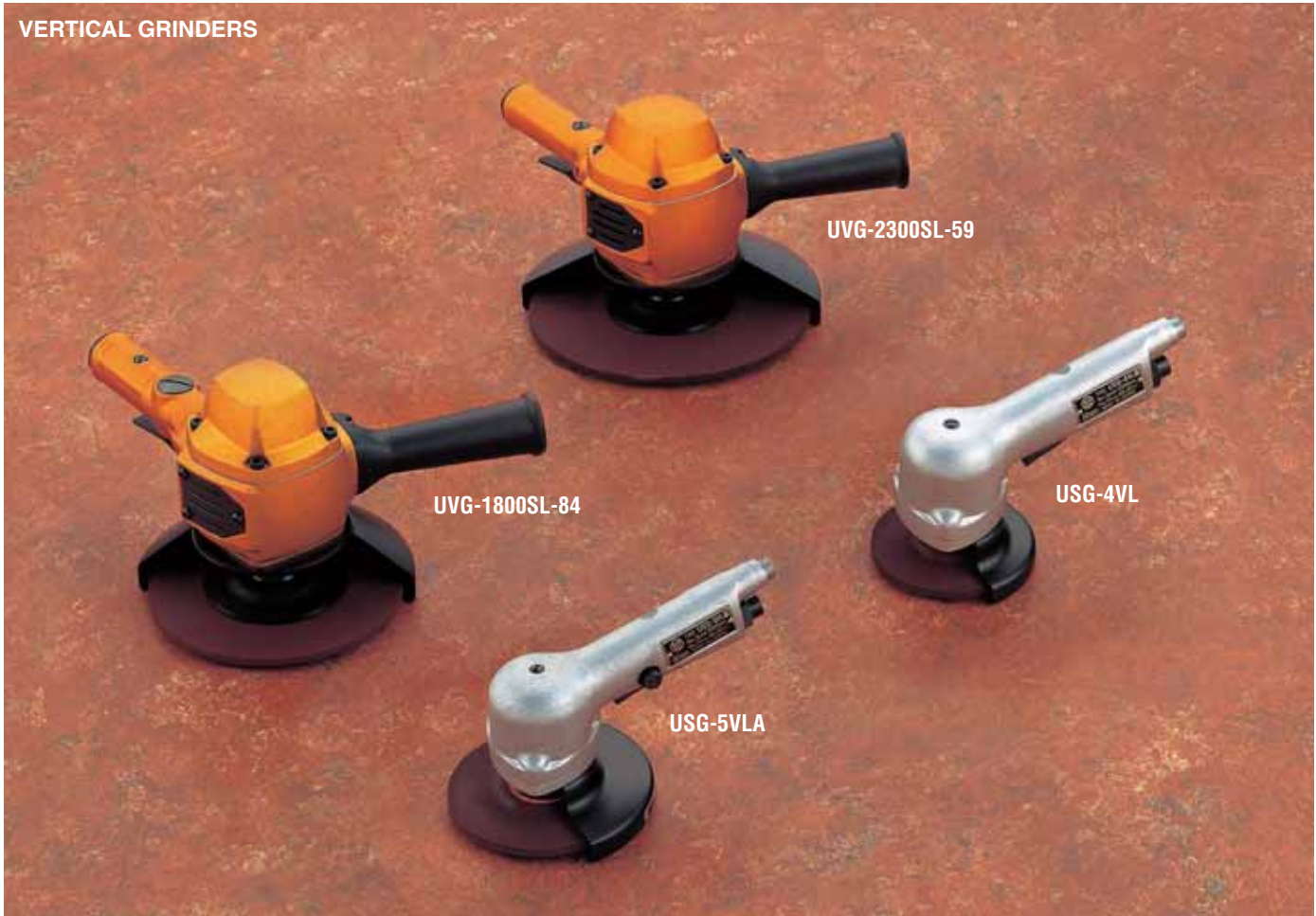
UVG series * Non-friction speed control governor incorporated with over-speed sensing device. This special governor contributes to power compensation also especially when grinding resistance gets strong causing slow speed.
 * Three different speeds are available for UVG-1800.
 * UVG-2300 series is equipped with Dual and Consecutive action Speed Piston Valve for smooth valve opening.



UVG SERIES

NON-FRICTION SPEED CONTROL GOVERNOR incorporated in OVERSPEED SENSING DEVICE

VERTICAL GRINDERS



SPECIFICATIONS

Recommended Air Pressure: 0.6MPa (85psi)

| Model | Capacity (Wheel size) | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Overall Height (about) | | Weight less wheel (about) | | Type of Spindle | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|---------------|-----------------------|----|------------------------|-------------------|------------------------|---------|------------------------|---------|---------------------------|-------|-----------------|-----------------------------|---------------|-----|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | mm | in | | | kg | lb | in | mm |
| USG-4VL | 100 | 4 | 12000 | 435 | 220 | 8 21/32 | 97 | 3 13/16 | 1.40 | 3.09 | IN | NPT1/4 | 9.5 | 3/8 | 0.85 | 30.0 |
| USG-5VLA | 125 | 5 | 10500 | 375 | 220 | 8 21/32 | 97 | 3 13/16 | 1.48 | 3.26 | IN | NPT1/4 | 9.5 | 3/8 | 0.85 | 30.0 |
| UVG-1500SL-76 | 180 | 7 | 7600 | 1200 | - | - | 162 | 6 3/8 | 3.30 | 7.26 | OUT | NPT3/8 | 12.7 | 1/2 | 1.40 | 49.0 |
| UVG-1500SL-84 | 180 | 7 | 8400 | 1200 | - | - | 162 | 6 3/8 | 3.30 | 7.26 | OUT | NPT3/8 | 12.7 | 1/2 | 1.40 | 49.0 |
| UVG-1800SL-59 | 230 | 9 | 5900 | 1575 | - | - | 175 | 6 7/8 | 4.00 | 8.80 | OUT | NPT3/8 | 12.7 | 1/2 | 1.90 | 67.0 |
| UVG-1800SL-76 | 180 | 7 | 7600 | 1650 | - | - | 175 | 6 7/8 | 4.00 | 8.80 | OUT | NPT3/8 | 12.7 | 1/2 | 2.00 | 70.0 |
| UVG-1800SL-84 | 180 | 7 | 8400 | 1650 | - | - | 175 | 6 7/8 | 4.00 | 8.80 | OUT | NPT3/8 | 12.7 | 1/2 | 2.00 | 70.0 |
| UVG-2300SL-59 | 230 | 9 | 5900 | 2550 | - | - | 182 | 7 5/32 | 4.80 | 10.56 | OUT | NPT1/2 | 19.0 | 3/4 | 2.50 | 80.0 |

ANGLE GRINDERS

100mm-230mm(4"-9") Wheel Dia.

URYU offers UAG-series Angle Grinders of 100mm(4"), 125mm(5"), 180mm(7") and 230mm(9") capacity.

These governed lightweight and compact grinders deliver high power to weight ratio and feature :-

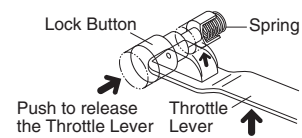
- Non-friction Speed Governor for most efficient grinding performance.
- Unique spring-loaded Exhaust Valve for noise-less trouble free operation.
- Vibration absorbent Dead Handle for less Operator fatigue.

UAG SERIES ANGLE GRINDERS



LOCK BUTTON

Push the spring-loaded Lock Button to release the Throttle Lever for operation. When released the Lever is locked automatically.

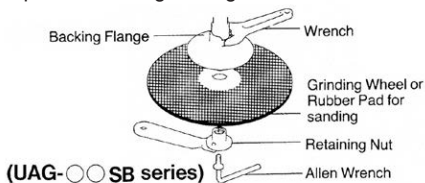


ROLL TYPE THROTTLE HANDLE

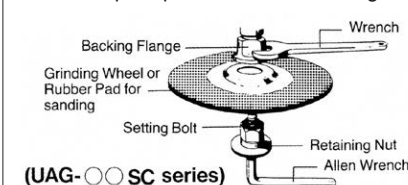


UAG- SB series
UAG- SC series

" B "type Spindle with large Flange



" C "type URYU unique Spindle with small Flange



Spring-loaded EXHAUST VALVE

This exhaust hole is kept closed off-operation but is opened upon triggering.

This unique exhaust valve features:

- Cutting exhaust noise especially when air is shut off.
- Preventing foreign matters inhalation into the tool.



SPECIFICATIONS

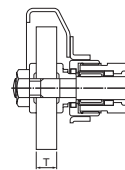
Recommended Air Pressure: 0.6MPa (85psi)

| Model | Capacity (Wheel size) | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Overall Height (about) | | Weight less wheel (about) | | Type of Spindle | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|---------------|-----------------------|----|------------------------|-------------------|------------------------|----------|------------------------|---------|---------------------------|-----|-----------------|-----------------------------|---------------|-----|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | mm | in | | | kg | lb | in | mm |
| UAG-40SB-136 | 100 | 4 | 13600 | 712 | 208 | 8 3/16 | 76 | 3 | 1.5 | 3.3 | OUT | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-40SBL-136 | 100 | 4 | 13600 | 712 | 246 | 9 11/16 | 76 | 3 | 1.3 | 2.9 | OUT | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-40SC-136 | 100 | 4 | 13600 | 712 | 208 | 8 3/16 | 76 | 3 | 1.5 | 3.3 | IN | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-40SCL-136 | 100 | 4 | 13600 | 712 | 246 | 9 11/16 | 76 | 3 | 1.3 | 2.9 | IN | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-50SBL-120 | 125 | 5 | 12000 | 712 | 246 | 9 11/16 | 76 | 3 | 1.4 | 3.1 | OUT | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-50SCL-120 | 125 | 5 | 12000 | 712 | 246 | 9 11/16 | 76 | 3 | 1.4 | 3.1 | IN | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-50SC-120 | 125 | 5 | 12000 | 712 | 208 | 8 3/16 | 76 | 3 | 1.6 | 3.5 | IN | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-50SB-109 | 125 | 5 | 10900 | 712 | 208 | 8 3/16 | 76 | 3 | 1.6 | 3.5 | OUT | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-50SBL-109 | 125 | 5 | 10900 | 712 | 246 | 9 11/16 | 76 | 3 | 1.4 | 3.1 | OUT | NPT1/4 | 9.5 | 3/8 | 0.95 | 34.0 |
| UAG-70SBL-76 | 180 | 7 | 7600 | 1500 | 300 | 11 13/16 | 98 | 3 55/64 | 2.9 | 6.4 | OUT | NPT3/8 | 12.7 | 1/2 | 1.60 | 57.0 |
| UAG-70SB-76 | 180 | 7 | 7600 | 1500 | 253 | 10 | 87 | 3 27/64 | 3.0 | 6.6 | OUT | NPT3/8 | 12.7 | 1/2 | 1.60 | 57.0 |
| UAG-70SC-76 | 180 | 7 | 7600 | 1500 | 253 | 10 | 87 | 3 27/64 | 3.0 | 6.6 | IN | NPT3/8 | 12.7 | 1/2 | 1.60 | 57.0 |
| UAG-70SCL-76 | 180 | 7 | 7600 | 1500 | 300 | 11 13/16 | 87 | 3 27/64 | 2.8 | 6.2 | IN | NPT3/8 | 12.7 | 1/2 | 1.60 | 57.0 |
| UAG-90SBL-59 | 230 | 9 | 5900 | 1875 | 308 | 12 1/8 | 98 | 3 55/64 | 3.3 | 7.3 | OUT | NPT3/8 | 12.7 | 1/2 | 1.90 | 67.0 |

HORIZONTAL GRINDERS

Heavy-Duty Type (Governed)

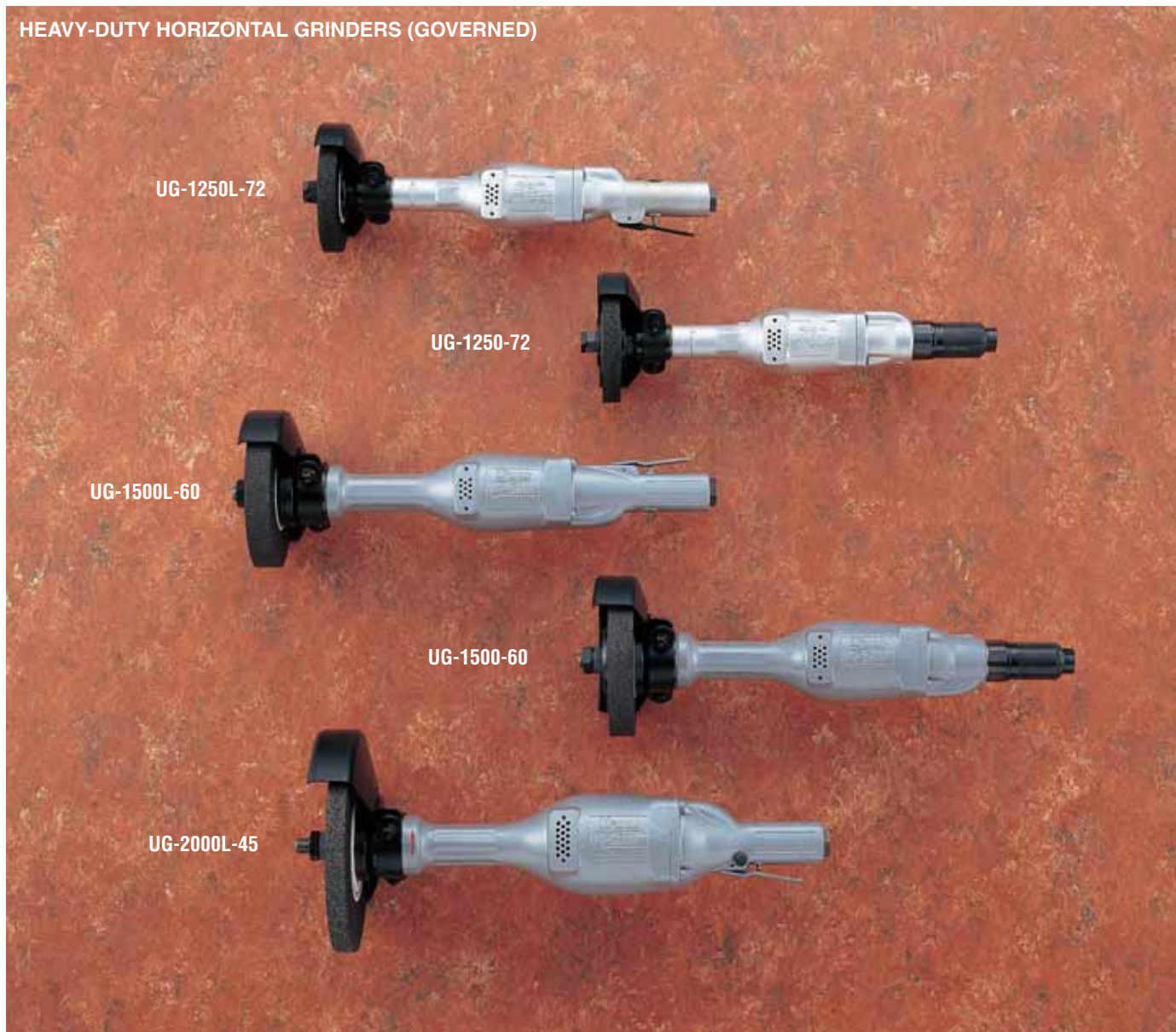
- Two speeds are available for UG-1500 and UG-2000 series.
(Higher speed for resinoid wheels and lower speed for vitrified wheels)
- Two different Throttle Handles are available for every model.
- Lever Type Handles are recommended for safer operation.



WHEEL SIZE

| Model Name | Thickness |
|----------------|-----------|
| UG-1200 Series | 13-19mm |
| UG-1500 Series | 18-25mm |
| UG-2000 Series | 19-25mm |

HEAVY-DUTY HORIZONTAL GRINDERS (GOVERNED)



SPECIFICATIONS

Recommended Air Pressure: 0.6MPa (85psi)

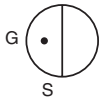
| Model | Capacity (Wheel Size) | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Weight less wheel (about) | | Spindle Size | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|-------------|-----------------------|----|------------------------|-------------------|------------------------|----------|---------------------------|-------|--------------|-----------------------------|---------------|-----|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | | | kg | lb | in | in |
| UG-1250-72 | 125 | 5 | 7200 | 750 | 436 | 17 11/64 | 3.20 | 7.04 | 1/2-13 | NPT3/8 | 12.7 | 1/2 | 0.90 | 32.7 |
| UG-1250L-72 | 125 | 5 | 7200 | 750 | 436 | 17 11/64 | 2.80 | 6.16 | 1/2-13 | NPT3/8 | 12.7 | 1/2 | 0.90 | 32.7 |
| UG-1500-60 | 150 | 6 | 6000 | 1320 | 497 | 19 9/16 | 4.88 | 10.74 | 5/8-11 | NPT3/8 | 12.7 | 1/2 | 1.30 | 45.9 |
| UG-1500-41 | 150 | 6 | 4100 | 975 | 497 | 19 9/16 | 4.88 | 10.74 | 5/8-11 | NPT3/8 | 12.7 | 1/2 | 1.30 | 45.9 |
| UG-1500L-60 | 150 | 6 | 6000 | 1320 | 495 | 19 31/64 | 4.62 | 10.16 | 5/8-11 | NPT3/8 | 12.7 | 1/2 | 1.30 | 45.9 |
| UG-1500L-41 | 150 | 6 | 4100 | 975 | 495 | 19 31/64 | 4.62 | 10.16 | 5/8-11 | NPT3/8 | 12.7 | 1/2 | 1.30 | 45.9 |
| UG-2000L-45 | 200 | 8 | 4500 | 1500 | 520 | 20 15/32 | 5.30 | 10.16 | 5/8-11 | NPT3/8 | 12.7 | 1/2 | 1.55 | 54.7 |
| UG-2000L-31 | 200 | 8 | 3100 | 1260 | 520 | 20 15/32 | 5.30 | 11.62 | 5/8-11 | NPT3/8 | 12.7 | 1/2 | 1.55 | 54.7 |

* Do not use vitrified wheels with higher speed type of each model.

ABRASIVE TOOLS

SANDERS, POLISHERS & ORBITAL SANDERS

AG-180W



Standard type
Self-suction type

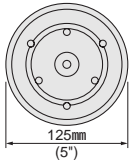
* Two different speeds available: 4,500rpm for sanding and polishing and 7,000rpm for grinding. AG-180W comes with sanding/polishing speed setting 4,500rpm with relevant accessories as standard. AG-180W can be converted into grinder model by changing speed regulator to G position and mounting wheel guard.

* Well-balanced orbital action achieves smooth scratch-free finish on any type of material.

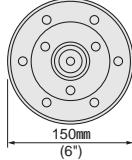
* As well as being the same well-balanced orbital action, following UP-15N, UP-25NB and UP-26NB have built-in type direct sanded-residue suction device. Sanded residue is sucked directly through the holes of the pads and corresponding holed sanding papers, keeping working environment clean.

* No additional dust cover system enables operators to watch the edge of paper directly, giving comfort and efficient operation.

UP-15N/25NB PAD



UP-26NB PAD



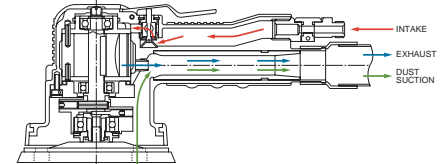
HOLED PAD



Dust collection bag
For UP-15N, 25NB&26NB



Cut view of UP-25NB



SANDERS / POLISHERS



ABRASIVE TOOLS

SPECIFICATIONS

Recommended Air Pressure: 0.6MPa (85psi)

| Model | Capacity (Pad/Paper size) | | Max.Free Speed (about) | Rated Horse Power | Overall Length (about) | | Overall Height (about) | | Weight less wheel (about) | | Spindle Size | Air Inlet Thread (Pipe Tap) | Air Hose Size | | Average Air Consumption | |
|----------|---------------------------|-------|------------------------|-------------------|------------------------|----------|------------------------|---------|---------------------------|------|--------------|-----------------------------|---------------|-----|-------------------------|------|
| | mm | in | | | rpm | w | mm | in | mm | in | | | kg | lb | in | in |
| USG-45P | 125 | 5 | 12000 | 225 | 187 | 7 23/64 | 104 | 4 3/32 | 0.87 | 1.91 | 3/8-24 | NPT1/4 | 9.5 | 3/8 | 0.55 | 20.0 |
| AG-180W | 180 | 7 | 7000 | 690 | 315 | 12 13/32 | 111 | 4 3/8 | 2.80 | 6.16 | 5/8-11 | NPT1/4 | 9.5 | 3/8 | 0.90 | 32.0 |
| UP-80-15 | 160 | 6 3/8 | 1500 | 337 | - | - | 170 | 6 7/8 | 1.80 | 3.96 | 5/8-11 | NPT1/4 | 9.5 | 3/8 | 0.80 | 28.0 |
| UP-80-40 | 160 | 6 3/8 | 4000 | 337 | - | - | 164 | 6 15/32 | 1.80 | 3.96 | 5/8-11 | NPT1/4 | 9.5 | 3/8 | 0.80 | 28.0 |
| UP-80-60 | 160 | 5/16 | 6000 | 337 | - | - | 170 | 6 7/8 | 1.80 | 3.96 | 5/8-11 | NPT1/4 | 9.5 | 3/8 | 0.80 | 28.0 |
| UP-15 | 125 | 5 | 8000 | 210 | 112 | 4 13/32 | 93 | 3 21/32 | 1.20 | 2.64 | - | NPT1/4 | 6.35 | 1/4 | 0.45 | 16.0 |
| UP-25DB | 125 | 5 | 10000 | 259 | 212 | 8 11/32 | 120 | 4 3/4 | 1.70 | 3.74 | - | NPT1/4 | 6.35 | 1/4 | 0.20 | 7.0 |
| UP-26DB | 150 | 6 | 10000 | 259 | 212 | 8 11/32 | 120 | 4 3/4 | 1.78 | 3.92 | - | NPT1/4 | 6.35 | 1/4 | 0.20 | 7.0 |
| UP-15N | 125 | 5 | 9000 | 225 | 175 | 6 57/64 | 103 | 4 1/16 | 1.50 | 3.30 | - | NPT1/4 | 6.35 | 1/4 | 0.45 | 16.0 |
| UP-25NB | 125 | 5 | 9000 | 300 | 250 | 9 23/64 | 119 | 4 23/32 | 1.77 | 3.90 | - | NPT1/4 | 9.5 | 3/8 | 0.60 | 21.0 |
| UP-26NB | 150 | 6 | 9000 | 300 | 263 | 10 23/64 | 119 | 4 23/32 | 1.95 | 4.30 | - | NPT1/4 | 9.5 | 3/8 | 0.60 | 21.0 |

[WARNING FOR SAFETY USE]

Firstly, follow your local safety regulations strictly on grinders and abrasives. Following are basically required.



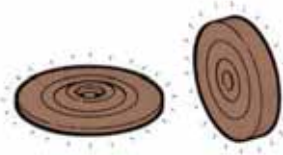
1) Before mounting to the Grinder, make sure that the Grinding Wheels or other Abrasives are of suitable size, shape, quality and strength to the rated speed (RPM) stamped on the name plate or tool housing.



2) The Wheel Spindle speed should be regularly checked with a tachometer to make sure whether normal speed is maintained. The governed grinders must be checked to be sure governor mechanism is functioning properly.



3) Make sure before operation that the abrasive Wheel should be mounted carefully and sufficiently with flanges and nuts of proper size and shape by use of the Spanners.



4) All Grinding Wheels should be closely inspected before installation and use. If cracks, nicks, or chips are found, do not use the Wheel in question.



5) Before installing a grinding Wheel, after all Grinders repair and whenever the Grinder is issued for use, test run the Grinder by a competent person for one minute under a protected area.

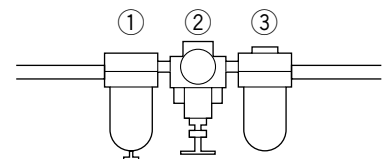
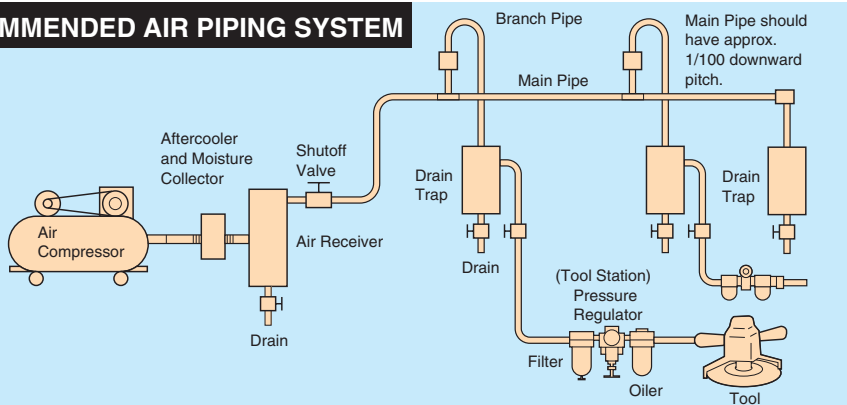


6) Never exceed maximum speed of the abrasive Wheel to avoid dangerous breakage. Fragments from the Wheel can cause serious injury or death. Do not operate without wearing eye protector and gloves.

RUBBER PAD, FIBER PAD & POLISHING PAD

| PAD | MODEL | SIZE | CODE NOS. |
|---------------|--|-------|-----------|
| RUBBER PAD | AG-100 series USG-4V series | 80mm | 554-406-1 |
| | USG-5V series | 125mm | 892-006-1 |
| | UP-80 series UAG-70 series UVG-1500 series UVG-1800 series AG-180W | 170mm | 566-406-1 |
| FIBER PAD | USG-45P | 73 | 553-415-1 |
| | | 115 | 553-416-1 |
| | AG-180W | 120 | 585-415-1 |
| | | 174 | 585-416-1 |
| POLISHING PAD | UP-80-15 & 60 | 6" | 998-510-0 |
| | UP-80-40 | 7" | 998-513-0 |

RECOMMENDED AIR PIPING SYSTEM



Air Filter :
removes water and dirt particles from compressed air.

Pressure Regulator :
gives steady and dependable regulation at 0.6MPa (85psi).

Air Oiler (Lubricator) :
assures longer and more dependable tool life.



PHOTO ; MODEL NO.UD-50-45 1993
STILL USED AT USERS

DRILLS & TAPPERS

COMBINATION DRILLS
HEAVY DUTY DRILLS
TAPPERS

*Sound Level measured to ISO 15744

UD-50/60/80 SERIES DRILLS

With interchangeable Gear Boxes these **UD-series** Drills offer a wide range of speeds for various applications. Rear exhaust through silencer results in extremely low noise.

PISTOL TYPE



Power is controlled by the built-in Air Regulator located on the handle. (Pistol handle type only)

Dead Handle Assembly (Option)



For UD-60 series 612-896-0
For UD-80 series 613-896-0

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

| Model | Drilling Capacity | | Free Speed (about) | Overall Length (about) | | Weight with Chuck (about) | | From Center to Outside (about) | | Nominal Chuck Size | | Type of Spindle | Average Air Consumption | |
|-----------|-------------------|------|--------------------|------------------------|---------|---------------------------|------|--------------------------------|--------|--------------------|------|-----------------|-------------------------|----------------------|
| | mm | in | rpm | mm | in | kg | lb | mm | in | mm | in | in-thr'd | m ³ /min | ft ³ /min |
| UD-50-200 | 3 | No.5 | 23000 | 135 | 5 5/16 | 0.70 | 1.50 | 21.0 | 53/64 | 8 | 5/16 | 3/8-24UNF | 0.40 | 14 |
| UD-50-45 | 6 | 1/4 | 5000 | 145 | 5 23/32 | 0.86 | 1.89 | 21.0 | 53/64 | 8 | 5/16 | 3/8-24UNF | 0.40 | 14 |
| UD-50-22 | 8 | 5/16 | 2200 | 140 | 5 1/2 | 0.90 | 1.98 | 21.0 | 53/64 | 8 | 5/16 | 3/8-24UNF | 0.40 | 14 |
| UD-60-29 | 8 | 5/16 | 2900 | 165 | 6 1/2 | 1.10 | 2.43 | 22.5 | 57/64 | 8 | 5/16 | 3/8-24UNF | 0.50 | 18 |
| UD-60-20 | 8 | 5/16 | 2000 | 180 | 7 1/8 | 1.20 | 2.64 | 22.5 | 57/64 | 8 | 5/16 | 3/8-24UNF | 0.50 | 18 |
| UD-60-15 | 8 | 5/16 | 1600 | 180 | 7 1/8 | 1.20 | 2.64 | 22.5 | 57/64 | 8 | 5/16 | 3/8-24UNF | 0.50 | 18 |
| UD-60-07 | 13 | 1/2 | 700 | 219 | 8 5/8 | 1.40 | 3.08 | 22.5 | 57/64 | 13 | 1/2 | 1/2-20UNF | 0.50 | 18 |
| UD-60-04 | 13 | 1/2 | 500 | 220 | 8 5/8 | 1.40 | 3.08 | 22.5 | 57/64 | 13 | 1/2 | 1/2-20UNF | 0.50 | 18 |
| UD-80-12 | 13 | 1/2 | 1200 | 216 | 8 1/2 | 1.80 | 3.96 | 26.0 | 1 1/64 | 13 | 1/2 | 1/2-20UNF | 0.65 | 23 |
| UD-80-07 | 13 | 1/2 | 700 | 239 | 9 13/32 | 2.30 | 5.06 | 26.0 | 1 1/64 | 13 | 1/2 | 1/2-20UNF | 0.65 | 23 |
| UD-80-04 | 16 | 5/8 | 400 | 247 | 9 23/32 | 2.90 | 6.39 | 26.0 | 1 1/64 | 16 | 5/8 | 5/8-16UN | 0.65 | 23 |

*Air Hose Size (Inside Diameter) : 9.5mm (3/8")

*Air Inlet Thread : NPT1/4"

UD-50/60/80 SERIES DRILLS



| SPINDLE | 3/8"-24 UNF | 1/2"-20 UNF | 5/8"-16 UN |
|-------------------------|---|--|---------------------|
| Key Chuck | 8mm (923-070-0) * 10mm (923-072-0) | 13mm (923-071-0) * 10mm (923-073-0) | 16mm (923-080-0) |
| Chuck Handle | (927-051-0) | (927-053-0) | (927-055-0) |

: Standard * : Option

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

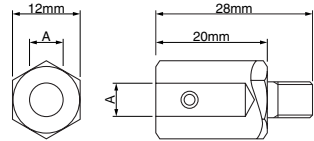
| Model | Drilling Capacity | | Free Speed (about) | Overall Length (about) | | Weight with Chuck (about) | | From Center to Outside (about) | | Nominal Chuck Size | | Type of Spindle | Average Air Consumption | |
|------------|-------------------|------|--------------------|------------------------|----------|---------------------------|------|--------------------------------|--------|--------------------|------|-----------------|-------------------------|---------|
| | mm | in | rpm | mm | in | kg | lb | mm | in | mm | in | n-thr'd | m³/min | ft³/min |
| UD-50S-200 | 3 | No.5 | 23000 | 200 | 7 7/8 | 0.70 | 1.50 | 21.0 | 53/64 | 8 | 5/16 | 3/8-24UNF | 0.40 | 14 |
| UD-50S-45 | 6 | 1/4 | 5000 | 210 | 8 9/32 | 0.85 | 1.87 | 21.0 | 53/64 | 8 | 5/16 | 3/8-24UNF | 0.40 | 14 |
| UD-50S-22 | 8 | 5/16 | 2200 | 205 | 8 1/16 | 0.83 | 1.83 | 21.0 | 53/64 | 8 | 5/16 | 3/8-24UNF | 0.40 | 14 |
| UD-60S-29 | 8 | 5/16 | 2900 | 227 | 8 15/16 | 1.05 | 2.32 | 22.5 | 57/64 | 8 | 5/16 | 3/8-24UNF | 0.50 | 18 |
| UD-60S-20 | 8 | 5/16 | 2000 | 238 | 9 3/8 | 1.15 | 2.54 | 22.5 | 57/64 | 8 | 5/16 | 3/8-24UNF | 0.50 | 18 |
| UD-60S-15 | 8 | 5/16 | 1600 | 238 | 9 3/8 | 1.15 | 2.54 | 22.5 | 57/64 | 8 | 5/16 | 3/8-24UNF | 0.50 | 18 |
| UD-60S-07 | 13 | 1/2 | 700 | 272 | 10 23/32 | 1.35 | 2.98 | 22.5 | 57/64 | 8 | 5/16 | 1/2-20UNF | 0.50 | 18 |
| UD-60S-04 | 13 | 1/2 | 500 | 279 | 10 63/64 | 1.35 | 2.98 | 22.5 | 57/64 | 8 | 5/16 | 1/2-20UNF | 0.50 | 18 |
| UD-80S-12 | 13 | 1/2 | 1200 | 277 | 10 29/32 | 1.60 | 3.53 | 26.0 | 1 1/64 | 13 | 1/2 | 1/2-20UNF | 0.65 | 23 |
| UD-80S-07 | 13 | 1/2 | 700 | 300 | 11 13/16 | 2.10 | 4.73 | 26.0 | 1 1/64 | 13 | 1/2 | 1/2-20UNF | 0.65 | 23 |
| UD-80S-04 | 16 | 5/8 | 400 | 323 | 12 23/32 | 2.70 | 5.95 | 26.0 | 1 1/64 | 16 | 5/8 | 5/8-16UN | 0.65 | 23 |
| UD-80-12G | 13 | 1/2 | 1200 | 282 | 11 7/64 | 2.30 | 5.06 | 26.0 | 1 1/64 | 13 | 1/2 | 1/2-20UNF | 0.65 | 23 |
| UD-80-07G | 13 | 1/2 | 700 | 305 | 12 1/64 | 2.80 | 6.16 | 26.0 | 1 1/64 | 13 | 1/2 | 1/2-20UNF | 0.65 | 23 |
| UD-80-04G | 16 | 5/8 | 400 | 313 | 12 21/64 | 3.40 | 7.50 | 26.0 | 1 1/64 | 16 | 5/8 | 5/8-16UN | 0.65 | 23 |

*Air Hose Size (Inside Diameter) : 9.5mm (3/8") *Air Inlet Thread : NPT1/4"



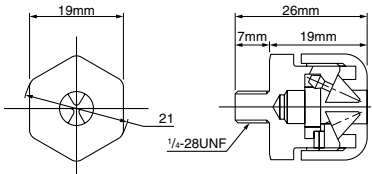
DRILL ADAPTER (for UD-50S Series)

Available sizes : 2mm, 3mm, 4mm, 5mm, 6mm
1/8", 5/32", 1/4"



CONE JAW CHUCK (for UD-50S Series)

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



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

| Model | Drilling Capacity | | Free Speed (about) | Overall Length (about) | | Weight with Chuck (about) | | Height with Chuck (about) | From Center to Outside (about) | | Nominal Chuck Size | | Type of Spindle | Average Air Consumption | | |
|------------|-------------------|------|--------------------|------------------------|----------|---------------------------|------|---------------------------|--------------------------------|------|--------------------|----|-----------------|-------------------------|--------|---------|
| | mm | in | rpm | mm | in | kg | lb | mm | in | mm | in | mm | in | in-thr'd | m³/min | ft³/min |
| UD-50S-45A | 4 | No.8 | 5000 | 253 | 9 31/32 | 0.90 | 1.98 | 40 | 1 57/64 | 21.0 | 53/64 | - | - | 1/4-28UNF | 0.40 | 14 |
| UD-50S-22A | 4 | No.8 | 2200 | 248 | 9 49/64 | 0.88 | 1.94 | 40 | 1 57/64 | 21.0 | 53/64 | - | - | 1/4-28UNF | 0.40 | 14 |
| UD-60S-29C | 8 | 5/16 | 2900 | 276 | 10 55/64 | 1.52 | 3.34 | 90 | 3 35/64 | 22.5 | 57/64 | 8 | 5/16 | 3/8-24UNF | 0.50 | 18 |
| UD-60S-15C | 8 | 5/16 | 1600 | 283 | 11 9/64 | 1.60 | 3.52 | 90 | 3 35/64 | 22.5 | 57/64 | 8 | 5/16 | 3/8-24UNF | 0.50 | 18 |

*Air Hose Size (Inside Diameter) : 9.5mm (3/8") *Air Inlet Thread : NPT1/4"

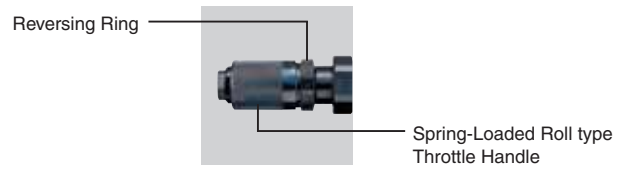
DRILLS & TAPPERS

URD-22 SERIES HEAVY DUTY DRILLS

Smooth and accurate operations for many kinds of applications, such as drilling, tapping, reaming and tube rolling, etc.



SELF-RETURNING ROLL TYPE THROTTLE HANDLE



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

| Model | Type | Drilling Capacity | | Free Speed (about) | Overall Length (about) | | Weight (about) | | From Center to Outside (about) | | Feed Length (about) | | Air Hose Size | | Average Air Consumption | |
|----------|----------------|-------------------|-----|--------------------|------------------------|----------|----------------|------|--------------------------------|---------|---------------------|-------|---------------|-----|-------------------------|----------------------|
| | | mm | in | rpm | mm | in | kg | lb | mm | in | mm | in | mm | in | m ³ /min | ft ³ /min |
| URD-22RR | Self-Returning | 22.0 | 7/8 | 600 | 442 | 17 13/32 | 5.8 | 12.8 | 39 | 1 17/32 | 70 | 2 3/4 | 12.7 | 1/2 | 1.3 | 46 |

Air Inlet Thread : NPT3/8" for URD-22RR

UT-60 & 66 SERIES TAPPERS

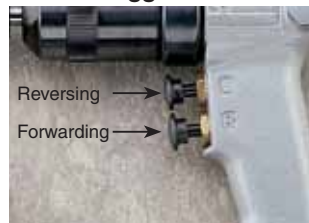
UT-60 series equipped with the "PUSH-PULL" auto-reversing clutch mechanism need no special operation for reversing. Push the tool forward against the work for tapping in, and just pull it backward for reversing out.

UT-66 series reversible drills have the double trigger handle for quick and frequent switchover of rotation.

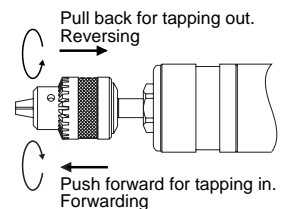
PISTOL / STRAIGHT TYPE



Double-Trigger Handle



"Push-Pull" Auto reversing Clutches



Built-in Air Regulator

SPECIFICATIONS

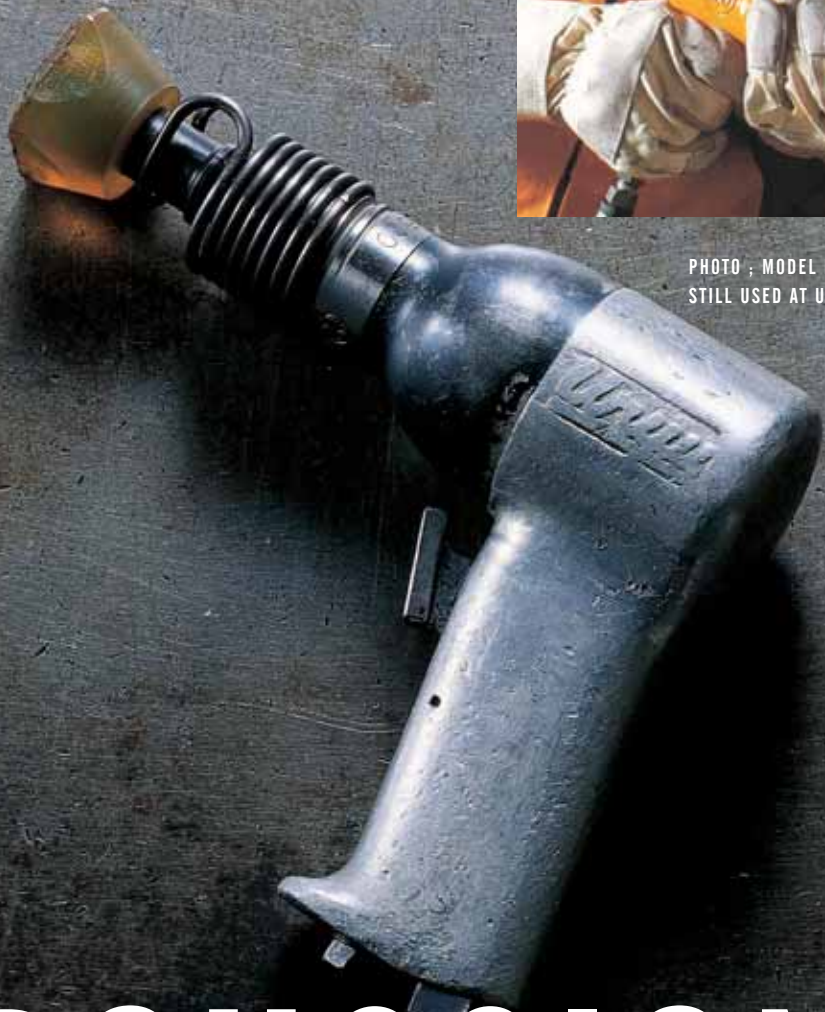
Recommended Air Pressure : 0.6MPa(85psi)

| Model | Tapping Capacity | | Free Speed (about) | Overall Length (about) | | Weight with Chuck (about) | | From Center to Outside (about) | | Average Air Consumption | |
|-----------|------------------|------|--------------------|------------------------|----------|---------------------------|------|--------------------------------|-------|-------------------------|----------------------|
| | mm | in | rpm | mm | in | kg | lb | mm | in | m ³ /min | ft ³ /min |
| UT-66B-15 | 6 | 1/4 | 1500 | 183 | 7 7/32 | 1.32 | 2.90 | 25.0 | 31/32 | 0.4 | 14.4 |
| UT-66B-07 | 8 | 5/16 | 800 | 196 | 7 23/32 | 1.42 | 3.12 | 25.0 | 31/32 | 0.4 | 14.4 |
| UT-60-07 | 8 | 5/16 | 680 | 244 | 9 39/64 | 1.80 | 3.96 | 22.5 | 57/64 | 0.5 | 18.0 |
| UT-60-04 | 8 | 5/16 | 400 | 244 | 9 39/64 | 1.80 | 3.96 | 22.5 | 57/64 | 0.5 | 18.0 |
| UT-60S-07 | 8 | 5/16 | 680 | 300 | 11 13/16 | 1.65 | 3.63 | 22.5 | 57/64 | 0.5 | 18.0 |
| UT-60S-04 | 8 | 5/16 | 400 | 316 | 12 7/16 | 1.65 | 3.63 | 22.5 | 57/64 | 0.5 | 18.0 |

Air Inlet Thread : NPT1/4" for UT-66B-15-UT-60S-04 Air Hose Size : 9.5mm (3/8") for UT-66B-15-UT-60S-04
Nominal Chuck Size : 8mm (5/16") for UT-66B-07-UT-60S-04



PHOTO ; MODEL NO. BRH-1U 1996.5
STILL USED AT USERS



PERCUSSION TOOLS

RIVETING HAMMERS
FLUX CHIPPERS
CHIPPING & CAULKING HAMMERS

*Sound Level measured to ISO 15744

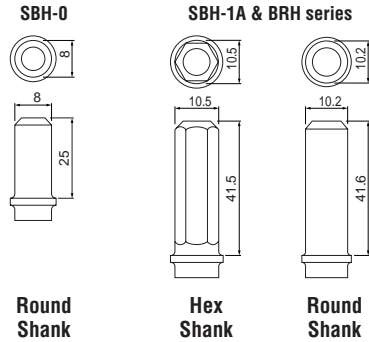
PERCUSSION TOOLS

RIVETING HAMMERS

Easily controlled, slow hitting heavy blow gives just the right impact to form a rivet without excessive work or damage to the surrounding metal. These tools are convertible to chipping, caulking and ripping hammers with suitable chisels.



SHANK SIZE



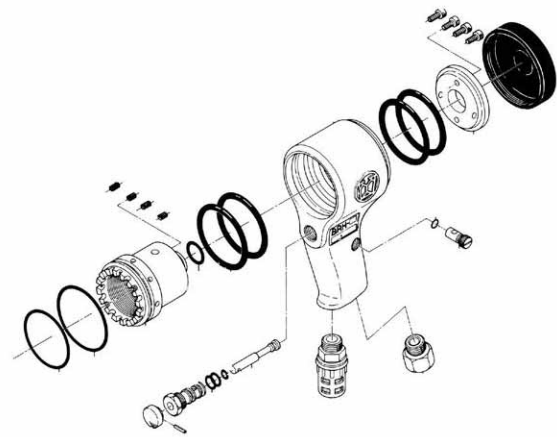
SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

| Model | Riveting Capacity | | | | Blow Per 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 | |
|--------------|-------------------|------|-------|-------|-----------------------|------------------------|---------|-------------------------------|-----|-------------------------|-------|-----------------------|--------|-----------------------------|---------------|-----|-------------------------|----------------------|
| | Duralumin | | Steel | | | mm | in | kg | lb | mm | in | mm | in | | mm | in | m ³ /min | ft ³ /min |
| | mm | in | mm | in | | | | | | | | | | | | | | |
| SBH-0 | 2.3 | No.2 | - | - | 6500 | 123 | 4 27/32 | 0.32 | 0.7 | 10.00 | 25/64 | 23 | 29/32 | NPT1/8 | 6.35 | 1/4 | 0.10 | 3.5 |
| 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 |
| 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 |
| 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 |
| 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 |
| BRH-5U(R,H) | 6.4 | 1/4 | 4.8 | No.10 | 1800 | 189 | 7 7/16 | 1.40 | 3.1 | 12.70 | 1/2 | 100 | 4 | NPT1/4 | 9.5 | 3/8 | 0.37 | 13.0 |
| BRH-5US(R,H) | 6.4 | 1/4 | 4.8 | No.10 | 1800 | 246 | 9 11/16 | 1.45 | 3.2 | 12.70 | 1/2 | 100 | 4 | NPT1/4 | 9.5 | 3/8 | 0.37 | 13.0 |
| BRH-5UG(R,H) | 6.4 | 1/4 | 4.8 | No.10 | 1800 | 258 | 10 5/32 | 2.13 | 4.7 | 12.70 | 1/2 | 100 | 4 | NPT1/4 | 9.5 | 3/8 | 0.37 | 13.0 |

VIBRATION-LESS TYPE

To meet the growing demand for low noise and less vibration percussive tools, URYU offers four different models.



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

| Model | Riveting Capacity | | | | Blow Per 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 | |
|---------------|-------------------|------|-------|-------|-----------------------|------------------------|----------|-------------------------------|-----|-------------------------|------|-----------------------|-------|-----------------------------|---------------|-----|-------------------------|----------------------|
| | Duralumin | | Steel | | | mm | in | kg | lb | mm | in | mm | in | | mm | in | m ³ /min | ft ³ /min |
| | mm | in | mm | in | | | | | | | | | | | | | | |
| BRH-1UV(R,H) | 3.2 | No.5 | 2.4 | No.3 | 2800 | 143 | 5 5/8 | 1.37 | 3.0 | 14.30 | 9/16 | 38 | 1 1/2 | NPT1/4 | 9.5 | 3/8 | 0.34 | 12.0 |
| BRH-5UV(R,H) | 6.4 | 1/4 | 4.8 | No.10 | 1800 | 210 | 8 17/64 | 1.68 | 3.7 | 12.70 | 1/2 | 100 | 4 | NPT1/4 | 9.5 | 3/8 | 0.37 | 13.0 |
| 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 |
| 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 |

PERCUSSION TOOLS

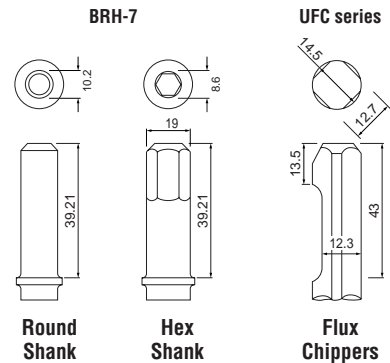
IMPACT CUTTERS/FLUX CHIPPERS

BRH-7 series fast hitting and powerful hammers are versatile for various hammering jobs in cutting, ripping, shearing, punching, etc., Needle scaling attachments are available.

UFC series are needed for general scaling applications such as removal of splatter and excess metal after welding, removal of rust, scale paint and soot from metal surface, light fins, flash and sand from castings. Two models are available : UFC-0N for light work and UFC-1N with Valve for heavy duty work.



SHANK SIZE



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

| Model | Blow Per 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 | |
|------------|-----------------------|------------------------|---------|----------------------------|------|-------------------------|-------|-----------------------|---------|-----------------------------|---------------|-----|-------------------------|----------------------|
| | bpm | mm | in | kg | lb | mm | in | mm | in | in | mm | in | m ³ /min | ft ³ /min |
| BRH-7(R,H) | 3400 | 168 | 6 39/64 | 1.64 | 3.60 | 19.05 | 3/4 | 50 | 1 31/32 | NPT1/4 | 9.5 | 3/8 | 0.48 | 17.0 |
| 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 |
| 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 |

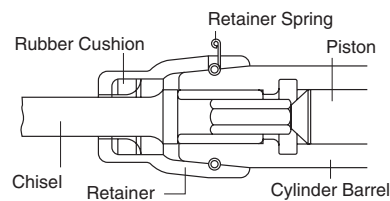
CHIPPING & CAULKING HAMMERS

Rugged-designed powerful Hammers with high speed blows are ideal for billet chipping/general chipping and caulking/weld flux, paint, and rust removal/removing gates and fins from castings.



CHISEL RETAINER (Option)

Applicable to both PB and AA series excepting AA-00.



SPRING CHISEL RETAINER

(for AA-00)



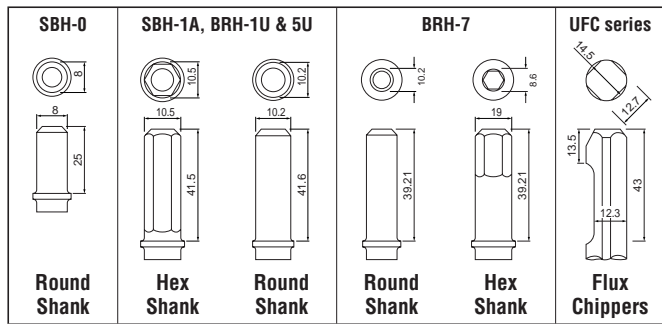
(705-813-1)

SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

| Model | Chisel Shank Size | | | | Blow Per 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 | | |
|------------|-------------------|-----|-----------|------|-----------------------|------------------------|----------|----------------------------|-------|-------------------------|--------|-----------------------|---------|-----------------------------|---------------|-----|-------------------------|---------------------|----------------------|
| | Round | | Hexagonal | | | mm | in | kg | lb | mm | in | mm | in | | in | mm | in | m ³ /min | ft ³ /min |
| | mm | in | mm | in | | | | | | | | | | | | | | | |
| 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 | |
| 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 | |
| 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 | |
| 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 | |
| PB-20(R,H) | 17.5 | 5/8 | 14.7 | 9/16 | 1900 | 350 | 13 25/32 | 6.6 | 14.50 | 28.5 | 1 1/8 | 76 | 3 | NPT3/8 | 12.7 | 1/2 | 0.80 | 28.0 | |
| 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 | |

SHANK SIZE OF RIVET SETS



RIVET SETS

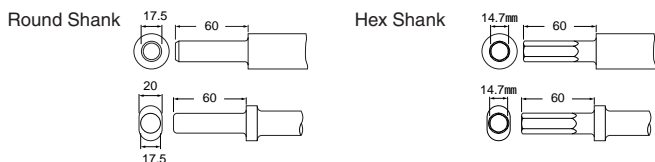
| | RETAINER SPRING | RIVET SETS | MODEL |
|-------------|-----------------|---------------|--|
| Round Shank | | 920-810-0 | SBH-0 |
| | | 920-021-0 | SBH-1A(R) BRH-1U(R) BRH-5U(R) series |
| | | 920-040-0 | BRH-5U(R) series |
| | | 920-800-0 | SBH-1A(R) BRH-1U(R) BRH-5U(R) series |

CHISELS for AA-00 SERIES (Collared type)



| POINT shape | Overall Length | | Code No. | |
|-------------|----------------|----------|-------------|------------|
| | mm | in | Round shank | Hex. Shank |
| | 200 | 7 7/8" | 921-224-0 | 921-049-0 |
| | 176 | 6 15/16" | 877-035-1 | 921-221-0 |
| | 220 | 8 21/32" | 921-225-0 | 921-220-0 |

CHISELS for AA & PB SERIES



| POINT shape | Overall Length | | Code No. | | |
|-------------|----------------|----------|------------|---------------|-----------|
| | mm | in | Plain Type | Collared Type | |
| | 200 | 7 7/8" | R | 921-021-0 | 921-072-0 |
| | | | H | 921-025-0 | 921-075-0 |
| | 220 | 8 21/32" | R | 921-003-0 | 921-070-0 |
| | | | H | 921-010-0 | 921-073-0 |
| | 200 | 7 7/8" | R | 921-056-0 | 921-071-0 |
| | | | H | 921-055-0 | 921-074-0 |

CHISELS FOR BRH-7

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

Min. quantity for ordering Hex. Shank Chisels marked with " " is 30-100 pcs. each. Standard Chisels are marked with " "

Needle Scaler Attachments



Complete Set

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

TESTERS & OTHERS

DIGITAL TORQUE TESTERS

FASTENING TESTERS

HYDRAULIC TESTERS

SIMPLE CHECKERS



DIGITAL TORQUE TESTER

The down-sized **UDT-200 & UDT-500 series** are designed to fill a definite need for accurate check and adjustment of torque output of oil-pulse tools and hand torque testers. With built-in rechargeable battery in addition to the AC power source, it offers a mobility at different application in your factory. Newly integrated function of the data storage for downloading contributes to the periodic diagnosis of the tools for quality products. By the conventional functions the existing customers have been familiar with same usage in previous models UET-200BP & UET-500BP.

Features

- * Ni-Cad battery operation gives hand-carry mobile use in your assembly site especially for pulse-tools' commencement of one day operation. AC power source from your plug can be used together.
- * 10-hour continuous operation by battery is possible. Full recharging time is approx. 8-hours.
- * Designed compact, amplifier of UDT-200A(E) has only 1.7Kg in weight 43% lighter and W198xD171xH115mm in dimensions 34% smaller than previous model UET-200BP.
- * Memory function can store maximum 250 torque data.
- * Supreme accuracy of within $\pm 0.5\%$ at the rated output.
- * Red color LED display gives clear visual confirmation.
- * PC output terminal RS-232C (9,600 bps) allows RS printer connection.
- * Torque transducer mounted in pickup has optimum function for measure of Oil-Pulse tools. The traceability remains the same as previous models.



Application

- * Torque check and adjustment for standard type of Oil-Pulse tools. (Shut-off type of Oil-Pulse tools needs optional Soft-Joint Attachment.)
- * Torque check and adjustment for Angle Nutrunners using optional Soft-Joint Attachment.
- * Torque check for manual torque wrenches.

WARNING !

- * Never apply torque higher than the specific rated output.
- * Never disassemble. Never give strong shock or vibration.
- * Never use under situation giving direct rays of the sun, high humidity or dust.
- * Never apply the tools of such impacting mechanism as impact clutches, cushion clutches, etc.

SPECIFICATIONS

| Model | Recommended Torque Capacity Range | Blow Capacity Range | Accuracy | Dimensions mm(about) (W x D x H) | Weight Kg(about) | Accessories Socket Adapter |
|-------------------|--|---------------------|-----------------------------|---|---|---|
| UDT-200A -200E | 15-200N.m 10-150ft-lb 150-2000kgf.cm | 0-99 blows () | $\pm 0.5\%$ at rated output | Amplifier (198 x 171 x 115) Pick-up (245 x 125 x 75) | Amplifier (1.7) Pick-up (8.5) | (3/8) 836-520-0 (1/2) 836-520-1 |
| UDT-500A -500E | 150-500N.m 110-370ft-lb 15-50kgf.m | 0-99 blows () | $\pm 0.5\%$ at rated output | Amplifier (198 x 171 x 115) Pick-up (280 x 150 x 90) | Amplifier (1.7) Pick-up (15.0) | (1/2) 836-520-7 (5/8) 836-520-8 (3/4) 836-520-9 |

() on condition that input torque is over 10% of rated output. Operating Environment : (10-40), Humidity(20-80%), No Dew

UDT-25 TESTER

UDT-25 is designed to check fastening torque and the number of pulse for the small models (e.g. UL30, 40 and ULT30-50) with the torque capacity range 0.3Nm–25Nm. UDT-25 is also available for torque measurement for US-LT series Torque Control Screwdrivers, US-LD Direct Drive Screwdrivers and hand torque testers. The output of fastening data by RS232C is available so UDT-25 is applicable for the various kinds of purpose.

Features

- * Compact design for torque measurement and torque display sections gives hand-carry mobile.
- * Power source is nickel hydride battery. Full recharging time is 4-hour. 14-hour continuous operation is possible after full charging. *1
- * Applicable to reversing torque as well. *2
- * Red color LED display gives clear visual confirmation.
- * Supreme accuracy of within $\pm 0.5\%$ at the rated output.
- * PC output terminal RS-232C is standard-equipped.
- * Memory function can store maximum 250 torque data.
- *1 Never use during charging.
- *2 Only forward rotation is available for Soft-Joint Attachment.



SPECIFICATIONS

| Model | Applicable Tool Type | Recommended Torque Capacity Range | Blow Capacity Range | Accuracy | Power Source | Dimensions mm(about) (W x D x H) | Weight Kg(about) | Accessories Socket Adapter |
|--------|---|-----------------------------------|---------------------|-----------------------------|---------------------------------|----------------------------------|------------------|----------------------------|
| UDT-25 | Pulse Wrench, Torque Control Screwdriver, Direct Drive Screwdriver, Angle Nutrunner, hand torque tester | 0.30-25.00Nm | 0-99 blows () | $\pm 0.5\%$ at rated output | Built-in Nickel Hydride Battery | 190 x 180 x 59 | 2.3 | (3/8) 830-520-6 |

() on condition that input torque is over 10% of rated output. Operating Environment : (10-40 , no freeze) Humidity(20-80%), No Dew

UET-10CR TESTER

URYU **UET-10CRA/10CRE torque tester** is designed to check output torque of US-LT series Torque Control Screwdrivers & hand torque testers and shows LED digital reading on display. Furnish your tool control room and laboratory with tester for reception, regular check and torque adjustment of tools.

Features & Specifications

- * LED DIGITAL DISPLAY-Easy reading in the darkness as well.
- * PORTABLE(with a built-in-battery)-Easy use on production lines.
- * PC OUTPUT TERMINAL RS-232C allows RS printer connection.
- * APPLICABLE TO REVERSING TORQUE AS WELL.
- * APPLICABLE TO MANUAL TORQUE WRENCHES.
- * EASE OPERATION and HIGH PRECISION.
- * CAPACITY RANGE 0-10.0Nm
- * SIZE (Approx) 190 x 160 x 65mm (7 31/32" x 6 19/64" x 2 9/16")
- * WEIGHT (Approx) 2.3kg (5.1lbs)

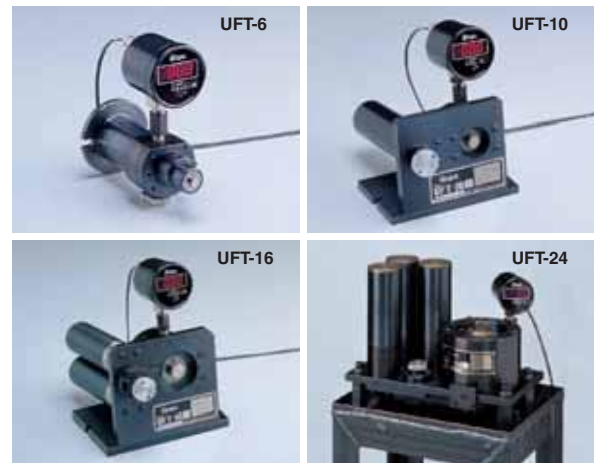


UFT SERIES TESTER

UFT-Fastening Tester is designed to detect and indicate precise fastening torque or tension to simulate joints to various actual fastening applications. Before the fastening operation, tools can be justified by checking with tester to prevent incorrect fastening due to power drop and etc.

SPECIFICATIONS

| Model | Bolt Size | Tension Range (kN) | Torque Range (Nm) | Weight (about) | |
|--------|-----------|--------------------|-------------------|----------------|-------|
| | | | | Kg | lb |
| UFT-6 | M5 | 3.6-6.1 | 3.2-5.4 | 3.6 | 7.9 |
| | M6 | 5.1-13.9 | 5.4-14.7 | | |
| UFT-10 | M6 | 5.1-13.9 | 5.4-14.7 | 12.0 | 26.4 |
| | M8 | 10.4-22.2 | 14.7-31.4 | | |
| UFT-16 | M12 | 25.5-41.7 | 53.9-88.2 | 22.0 | 48.4 |
| | M14 | 35.7-60.3 | 88.2-149 | | |
| | M16 | 52.8-67.4 | 149-190 | | |
| UFT-24 | M18 | 59.9-92.6 | 190-294 | 50.0 | 110.0 |
| | M20 | 83.3-125 | 294-441 | | |
| | M24 | 104-162 | 441-686 | | |



UHT SERIES TESTER

The **UHT-series** simply designed hydraulic torque testers are suitable to be applied to Screwdrivers (Cushion, Positive, Impact Clutch types), Impact Wrenches and similar Impact action fastening tools in monitoring torque output of new and repaired tools in comparison with their master tools. The readout in the dial indicator does not show absolute torque value, but just comparative degree of power of the tool being tested.

SPECIFICATIONS

| Model | Applicable Tool Type or Square Drive Size | Applicable Torque Range | | Weight (about) | |
|--------|---|-------------------------|----------|----------------|-------|
| | | Nm | ft-lbs | Kg | lb |
| UHT-12 | Cushion/Positive Clutch | 1-8 | 0.7-5.9 | 2.5 | 5.5 |
| UHT-16 | Impact Clutch | 3-20 | 2.2-14.8 | 7.5 | 16.5 |
| UHT-25 | 3/8"(9.5mm) | 20-50 | 14-36 | 13.0 | 28.6 |
| UHT-35 | 1/2"(12.7mm) | 50-300 | 36-215 | 19.0 | 41.8 |
| UHT-50 | 3/4"-1"(19.0-25.4mm) | 300-2000 | 215-1450 | 150.0 | 220.0 |



UFT-SP SERIES SIMPLE FUNCTION CHECKER

The **UFT-SP Series Checker** is designed to be installed at the place near to the assembly line for the simple function check of shut-off type Oil Pulse Tools before the daily operation.

SPECIFICATIONS

| Model | Torque Range | | Drive Size | Weight (about) | |
|----------|--------------|------------|--------------------|----------------|------|
| | Nm | ft-ibs | | Kg | lb |
| UFT-SP01 | 3-13 | 2.2-9.6 | Bit:6.35H | 3.5 | 7.7 |
| UFT-SP03 | 10-36 | 7.4-26.6 | Socket:8,10,12 | 3.5 | 7.7 |
| UFT-SP06 | 20-60 | 14.8-44.4 | Socket:12,13,14,17 | 5.7 | 12.5 |
| UFT-SP15 | 50-150 | 37.0-111.0 | | 5.7 | 12.5 |



(CONVERSION TABLE)

TORQUE

| Unit to be converted | Nm | kgf.cm | kgf.m | in.lbs | ft.lbs |
|----------------------|-------|--------|-----------------------|--------|----------------------|
| 1Nm | - | 10.2 | 0.102 | 8.8 | 0.74 |
| 1kgf.cm | 0.098 | - | 0.01 | 0.868 | 0.072 |
| 1kgf.m | 9.8 | 100 | - | 86.8 | 7.2 |
| 1in.lbs | 0.114 | 1.152 | 1.16×10^{-2} | - | 8.3×10^{-2} |
| 1ft.lbs | 1.36 | 13.83 | 0.138 | 12 | - |

HORSE POWER

| Unit to be converted | kw | kgf m/s | PS | HP |
|----------------------|----------------------|--------------------|-----------------------|-----------------------|
| kw | 1 | 1.02×10^2 | 1.36 | 1.34 |
| kgf m/s | 9.8×10^{-5} | 1 | 1.33×10^{-2} | 1.32×10^{-2} |
| PS | 0.74 | 75 | 1 | 0.99 |
| HP | 0.75 | 76 | 1.01 | 1 |

PRESSURE

| Unit to be converted | MPa | Bar | kgf/cm ² | psi |
|----------------------|----------------------|----------------------|----------------------|--------------------|
| MPa | 1 | 10 | 10.2 | 1.44×10^2 |
| Bar | 10 | 1 | 1.02 | 14.4 |
| kgf/cm ² | 9.8×10^{-2} | 0.98 | 1 | 14.1 |
| psi | 6.9×10^{-2} | 6.9×10^{-2} | 7.1×10^{-2} | 1 |

WEIGHT

| Unit to be converted | kg | lbs |
|----------------------|------|-----|
| kg | 1 | 2.2 |
| lbs | 0.45 | 1 |

FLOW

| Unit to be converted | m ³ /s | m ³ /min | l/s | ft ³ /s |
|----------------------|-----------------------|----------------------|--------------------|----------------------|
| m ³ /s | 1 | 60 | 1.00×10^3 | 35 |
| m ³ /min | 1.67×10^{-2} | 1 | 17 | 0.59 |
| l/s | 1.00×10^{-3} | 6.0×10^{-2} | 1 | 3.5×10^{-2} |
| ft ³ /s | 2.8×10^{-2} | 1.7 | 28 | 1 |

LENGTH

| Unit to be converted | m | in | ft |
|----------------------|-----------------------|------|----------------------|
| m | 1 | 39 | 3.3 |
| in | 2.54×10^{-2} | 1 | 8.3×10^{-2} |
| ft | 0.31 | 12.0 | 1 |

INDIVIDUAL CATALOG SHEETS AND PARTS LISTS ARE AVAILABLE FOR FURTHER INFORMATION.



NOISE LEVELS AND VIBRATION VALUES

On 29 December 2009 EU new Machinery Directive, 2006/42/EC, came into force. Requirements concerning noise and vibration are made more precise. We, URYU SEISAKU, LTD., measured and declare noise levels and vibration emission values in accordance with EU Machinery Directive, 2006/42/EC.

Noise Levels

1) Measurement

Noise Levels are measured in accordance with ISO 15744 for hand-held non-electric power tools and EN60745 for electric power tools.

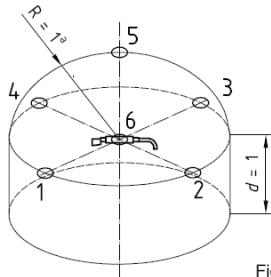


Figure 1 : Microphone Positions

Five microphone positions shall be located 1 m from the geometric centre of the tool. Four positions shall be spaced at regular intervals on a plane defined as passing through the geometric centre of the tool and parallel to the reflecting plane; the fifth position shall be located at a distance of 1 m above the geometric centre of the tool. See the figure 1.

2) Declaration

We declare sound pressure levels (L_p) and sound power level (L_w) in accordance with EU machinery directive, 2006/42/EC. Sound pressure levels are given as numbers when they are 70dB(A) or over. For tools with sound pressure levels lower than 70dB(A), we state < 70dB(A). If the sound pressure level exceeds 80dB(A), we also state the sound power level (L_w) which is 11dB(A) higher than the sound pressure level. To the measured level, 3dB(A) can be added to incorporate variations in production and method. ISO 15744 and EN60745 describes how to calculate these figures.

3) Risk Assessment & Risk Management

Noise is part of everyday life, but loud noise can permanently damage your hearing. Once you lose your hearing, you can never get it back. Generally hearing loss is gradual. By the time you notice it, it is probably too late. Manage the risk to exposure to noise at workplace to prevent hearing loss.



- Always use hearing protection in accordance with employer's instructions and as required by occupational health and safety regulations. Look after your hearing protection.
- Ensure that the silencer is in place and in good working order when the tool is operating.

We would recommend 'ISO 9612' for measurement and assessment of exposure to noise in a working environment, for risk assessment.

NOISE LEVELS AND VIBRATION VALUES

Vibration Values

1) Measurement

Vibration is measured according to the relevant part of ISO 28927 series. For some tools that are not covered by ISO 28927 series, ISO 20643 is used to develop a suitable test procedure.

The new Machinery Directive requires vibration total values. A vibration total value is based on a vibration measurement in three directions, x, y and z.

Ex. Measurement Locations for Pistol Grip Type Oil-Pulse Tools



Figure 2 : without Support Handle



Figure 3: with Support Handle

Oil-pulse tools with a mass less than 2kg are normally operated using only one hand and therefore only the hand position on the trigger handle is measured. Tools of a mass of 2kg or more are normally operated using both hands and measurements are made in two positions. For tools without a side handle, the second hand position is on the front casing or – if that is not possible – on the motor housing (see figure 2). For tools with a side handle, vibrations are measured in three directions both on the trigger and the support handle (see figure 3). On the tools intended to be used with two hands, two positions are measured and the position with the higher value is declared.

The vibration total value (a_{hv}) is the vector sum of the three different directions (a_{hwX} , a_{hwY} & a_{hwZ}) at one transducer position. See the equation (1).

$$a_{hv} = \sqrt{a_{hwX}^2 + a_{hwY}^2 + a_{hwZ}^2} \quad \text{Equation (1) *See 6 Characterization of vibration, 6.4 Combination of vibration directions.}$$

Three different operators carry out three series of five consecutive measurements on each model, using three different units. Vibration measurement are made in two positions when the tool has mass of 2 kg or over (see figure 2) or when the tool has a support handle (see figure 3). For each hand position, we combine the result from the three operators into one value (\bar{a}_h), using the arithmetic mean of the three \bar{a}_{hv} values. \bar{a}_h values for each hand position are calculated as the arithmetic mean of the \bar{a}_h values for the different tools on that hand position. The declared value, a_{hd} , is the highest of the \bar{a}_h values reported for the two hand positions. The uncertainty K value is estimated by the equation (2).

$$K = 1.5 \quad \text{Equation (2) *See Annex B Determination of uncertainty, B.3 Tests on three machines.}$$

2) Declaration

We declare vibration total values (A_{hd}) and measurement uncertainty (K). Vibration total values are to be given as numbers when they are $2.5m/s^2$ or over. For tools with vibration total values lower than $2.5m/s^2$, we state $< 2.5m/s^2$. Measurement uncertainty K values are given as numbers.

NOISE LEVELS AND VIBRATION VALUES

3) Triaxial Vibration Values and Single Direction Vibration Values

There is no fixed relation between triaxial vibration values measured in accordance with ISO 28927 series and one single direction vibration values measured in accordance with ISO 8662 series. Therefore, it is adequate to compare values from the same tool type, referring to the same part of the same standard.

Attention ! ISO 28927-2 is applicable to all hand-held tools for threaded fasteners, but ISO 28927-2 adopts a procedure for testing tools with an impact or impulse mechanism using a test device based on break blocks acting on the outer diameter of a test socket, and a free running test for other type of tools without an impact or impulse mechanism. Therefore, it may not be adequate to compare a value from an oil-pulse tool (under load) and one from a nutrunner without impact or impulse mechanism (free running).

4) Risk Assessment & Risk Management

Using hand-held power tools may cause hand-arm vibration syndrome*1 and carpal tunnel syndrome*2. We recommend risk assessment and regular health checks of the workforce for early symptoms which may relate to vibration exposure to prevent problems developing.

*1: Hand-arm vibration syndrome affects the nerves, blood vessels, muscles and joints of the hand, wrist and arm. It includes vibration white finger, which can cause severe pain in the affected fingers.

*2: Carpal tunnel syndrome is a nerve disorder which may involve pain, tingling, numbness and weakness in parts of the hand, and can be caused by, among other things, exposure to vibration.

- Manage the risk by reducing the exposure to vibrations.
 - Employ work process or a tool which has lower vibrations.
 - Employ work process or a tool which can do the job more quickly.
- Check tools and accessories before using them to make sure that they have been properly maintained and repaired to avoid increased vibration caused by faults or general wear.
- Support the weight of the tool in a stand, tensioner or balancer if possible.
- Avoid gripping or forcing a tool more than you have to. The risk from vibration is generally greater when the grip force is higher.
- Encourage good blood circulation by:
 - keeping your hands warm and dry.
 - massaging and exercising your fingers during work breaks.

We would recommend 'ISO 5349-1' and 'ISO 5349-2' for human exposure to hand-transmitted vibration measurement at workplace, for risk assessment.

Noise & Vibration Emission Values

The declared values were obtained by laboratory type testing in accordance with the stated standards and are suitable for comparison with the declared values of other tools tested in accordance with the same standard. These declared values are not adequate for use in risk assessments. 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 as 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.

NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Pistol Grip Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
|------------------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UAT40 | 75 | - | < 2.5 | 0.54 |
| UAT50 | 78 | - | < 2.5 | 0.55 |
| UAT60 | 80 | - | < 2.5 | 0.57 |
| UAT70 | 80 | - | < 2.5 | 0.59 |
| UAT80 | 80 | - | < 2.5 | 0.62 |
| UAT90 | 82 | 93 | < 2.5 | 0.63 |
| UAT100 | 82 | 93 | < 2.5 | 0.6 |
| UAT130 | 82 | 93 | 2.6 | 0.7 |
| UAT200 | 85 | 96 | 2.8 | 0.7 |
| UAT200L | 85 | 96 | 2.6 | 0.7 |
| UAT40D | 75 | - | < 2.5 | 0.7 |
| UAT50D | 78 | - | < 2.5 | 0.7 |
| UAT60D | 80 | - | < 2.5 | 0.7 |
| UAT50L | 75 | - | < 2.5 | 0.55 |
| UAT60L | 77 | - | < 2.5 | 0.58 |
| UAT70L | 78 | - | < 2.5 | 0.59 |
| UAT80L | 78 | - | < 2.5 | 0.63 |
| UAT90L | 79 | - | < 2.5 | 0.6 |
| UAT100L | 79 | - | < 2.5 | 0.6 |
| UAT130L | 79 | - | < 2.5 | 0.7 |
| UAT50DL | 75 | - | < 2.5 | 0.7 |
| UAT60DL | 77 | - | < 2.5 | 0.7 |
| Straight Type Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UAT40S | 70 | - | < 2.5 | 0.7 |
| UAT50S | 78 | - | 2.7 | 0.6 |
| UAT60S | 80 | - | 3.1 | 0.6 |
| UAT70S | 80 | - | 3.4 | 0.6 |
| UAT40SD | 70 | - | 2.7 | 0.7 |
| UAT50SD | 78 | - | 3.1 | 0.7 |
| UAT60SD | 80 | - | 3.5 | 0.7 |
| UAT50SL | 75 | - | 2.6 | 0.6 |
| UAT60SL | 77 | - | 3.0 | 0.6 |
| UAT70SL | 78 | - | 3.2 | 0.6 |
| UAT50SDL | 75 | - | 2.9 | 0.8 |
| UAT60SDL | 77 | - | 3.4 | 0.7 |

| Pistol Grip Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
|------------------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| ULT30D | 74 | - | < 2.5 | 0.58 |
| ULT40 | 75 | - | < 2.5 | 0.54 |
| ULT40D | 75 | - | < 2.5 | 0.59 |
| ULT50 | 78 | - | < 2.5 | 0.61 |
| ULT50D | 78 | - | < 2.5 | 0.63 |
| ULT60 | 80 | - | < 2.5 | 0.58 |
| ULT60D | 80 | - | < 2.5 | 0.6 |
| ULT70 | 80 | - | < 2.5 | 0.59 |
| ULT80 | 80 | - | < 2.5 | 0.63 |
| ULT90 | 82 | 93 | < 2.5 | 0.6 |
| ULT100 | 82 | 93 | < 2.5 | 0.6 |
| ULT130 | 82 | 93 | 2.6 | 0.7 |
| ULT150 | 82 | 93 | 2.9 | 0.7 |
| ULT180 | 82 | 93 | 3.2 | 0.7 |
| ULT50L | 75 | - | < 2.5 | 0.55 |
| ULT50DL | 75 | - | < 2.5 | 0.62 |
| ULT60L | 77 | - | < 2.5 | 0.57 |
| ULT60DL | 77 | - | < 2.5 | 0.6 |
| ULT70L | 78 | - | < 2.5 | 0.59 |
| ULT80L | 78 | - | < 2.5 | 0.62 |
| ULT90L | 79 | - | < 2.5 | 0.63 |
| ULT100L | 79 | - | < 2.5 | 0.6 |
| ULT130L | 79 | - | 2.5 | 0.7 |
| ULT150L | 79 | - | 2.8 | 0.7 |
| ULT180L | 80 | - | 3.1 | 0.7 |
| Straight Type Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| ULT30SD | < 70 | - | < 2.5 | 0.6 |
| ULT40S | 70 | - | 2.7 | 0.7 |
| ULT40SD | 70 | - | 2.9 | 0.7 |
| ULT50S | 78 | - | 2.8 | 0.7 |
| ULT50SD | 78 | - | 3.2 | 0.7 |
| ULT60S | 80 | - | 3.2 | 0.7 |
| ULT60SD | 80 | - | 3.6 | 0.8 |
| ULT70S | 80 | - | 3.5 | 0.8 |
| ULT50SL | 75 | - | 2.7 | 0.7 |
| ULT50SDL | 75 | - | 2.9 | 0.7 |
| ULT60SL | 77 | - | 3.1 | 0.7 |
| ULT60SDL | 77 | - | 3.5 | 0.8 |
| ULT70SL | 78 | - | 3.3 | 0.8 |
| Angle Head Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| ULT50C | 78 | - | 15.4 | 1.8 |
| ULT60C | 80 | - | 16.5 | 1.9 |
| ULT70C | 82 | 93 | 16.7 | 2.0 |
| ULT70CH | 82 | 93 | 17.1 | 2.0 |
| ULT50CL | 75 | - | 13.6 | 1.7 |
| ULT60CL | 78 | - | 14.8 | 1.8 |
| ULT70CL | 78 | - | 15.2 | 1.8 |
| ULT70CHL | 78 | - | 15.6 | 1.9 |

NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Pistol Grip Non Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
|--|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{PA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UL30 | 75 | - | < 2.5 | 0.56 |
| UL30D | 75 | - | < 2.5 | 0.57 |
| UL40 | 75 | - | < 2.5 | 0.57 |
| UL40D | 75 | - | < 2.5 | 0.58 |
| UL50 | 78 | - | < 2.5 | 0.59 |
| UL50D | 78 | - | < 2.5 | 0.62 |
| UL60 | 80 | - | < 2.5 | 0.60 |
| UL60D | 80 | - | < 2.5 | 0.7 |
| UL70 | 80 | - | < 2.5 | 0.60 |
| UL90 | 82 | 93 | < 2.5 | 0.6 |
| UL100 | 80 | - | < 2.5 | 0.6 |
| UL130 | 83 | 94 | 2.7 | 0.7 |
| UL150 | 84 | 95 | 3.0 | 0.7 |
| Straight Type Non Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{PA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UL30S | 72 | - | < 2.5 | 0.7 |
| UL30SD | 75 | - | 2.5 | 0.7 |
| UL40S | 72 | - | 2.9 | 0.7 |
| UL40SD | 75 | - | 3.0 | 0.7 |
| UL50S | 78 | - | 3.3 | 0.8 |
| UL50SD | 78 | - | 3.2 | 0.7 |
| UL60S | 80 | - | 3.5 | 0.8 |
| UL60SD | 80 | - | 3.7 | 0.8 |
| UL70S | 84 | 95 | 3.7 | 0.8 |
| Angle Head Non Shut-Off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{PA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| ALPHA-70C | 82 | 93 | 20 | 2 |
| ALPHA-70CH | 82 | 93 | 21 | 2 |
| Geared Head Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{PA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UL60(042T8H) | 80 | - | 7.3 | 1.1 |
| UL60(042T7H) | 80 | - | 7.3 | 1.1 |
| UL60(063T6H) | 80 | - | 11.0 | 1.4 |
| UL60(063T8H) | 80 | - | 10.7 | 1.4 |

| Pistol Grip Shut-Off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
|--------------------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{PA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UX-T700L | 72 | - | < 2.5 | 0.53 |
| UX-T700 | 72 | - | < 2.5 | 0.53 |
| UX-T800 | 75 | - | < 2.5 | 0.55 |
| UX-T900 | 75 | - | < 2.5 | 0.57 |
| UX-T1000 | 75 | - | < 2.5 | 0.57 |
| UX-T1300 | 77 | - | < 2.5 | 0.57 |
| UX-T1400 | 79 | - | < 2.5 | 0.60 |
| UX-T1620 | 82 | 93 | < 2.5 | 0.7 |
| UXR-T1820 | 84 | 95 | 2.8 | 0.7 |
| UXR-T2000 | 85 | 96 | 2.8 | 0.7 |
| UXR-T2400S | 85 | 96 | 4.0 | 0.8 |
| UXR-T3000S | 85 | 96 | 4.6 | 0.9 |
| UX-TL700 | 72 | - | < 2.5 | 0.52 |
| UX-TL800 | 75 | - | < 2.5 | 0.54 |
| UX-TL900 | 75 | - | < 2.5 | 0.56 |
| UX-TL1000 | 75 | - | < 2.5 | 0.57 |
| UX-TL1300 | 77 | - | < 2.5 | 0.57 |
| UX-TL1400 | 79 | - | < 2.5 | 0.59 |
| UX-TL1620 | 82 | 93 | < 2.5 | 0.7 |
| UXR-TL1820 | 84 | 95 | 2.5 | 0.7 |
| UXR-TL2000 | 85 | 96 | 2.6 | 0.7 |
| Pistol Grip Non Shut-Off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{PA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| U-350D | 74 | - | < 2.5 | 0.53 |
| U-410 | 70 | - | < 2.5 | 0.57 |
| U-410D | 70 | - | < 2.5 | 0.57 |
| UX-450 | < 70 | - | < 2.5 | 0.54 |
| UX-450D | < 70 | - | < 2.5 | 0.59 |
| UX-500 | 70 | - | < 2.5 | 0.55 |
| UX-500D | 70 | - | < 2.5 | 0.60 |
| UX-612 | 75 | - | < 2.5 | 0.54 |
| UX-612D | 75 | - | < 2.5 | 0.62 |
| UX-700 | 72 | - | < 2.5 | 0.54 |
| UX-700D | 72 | - | < 2.5 | 0.6 |
| UX-800 | 75 | - | < 2.5 | 0.55 |
| UX-900 | 75 | - | < 2.5 | 0.57 |
| UX-1000 | 75 | - | < 2.5 | 0.57 |
| UX-1300 | 77 | - | < 2.5 | 0.57 |
| UX-1400 | 79 | - | < 2.5 | 0.60 |
| UX-1620 | 82 | 93 | < 2.5 | 0.7 |
| UXR-1820 | 84 | 95 | 2.7 | 0.7 |
| UXR-2000 | 85 | 96 | 2.6 | 0.7 |

NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Straight Type Non Shut-Off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
|--|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| U-310SD | 74 | - | < 2.5 | 0.57 |
| U-350SD | 74 | - | < 2.5 | 0.58 |
| U-410S | 70 | - | < 2.5 | 0.58 |
| U-410SD | 70 | - | < 2.5 | 0.60 |
| UX-450S | < 70 | - | < 2.5 | 0.62 |
| UX-450SD | < 70 | - | < 2.5 | 0.63 |
| UX-500S | 70 | - | < 2.5 | 0.6 |
| UX-500SD | 70 | - | < 2.5 | 0.6 |
| UX-612S | 75 | - | < 2.5 | 0.6 |
| UX-612SD | 75 | - | < 2.5 | 0.7 |
| UX-700S | 78 | - | < 2.5 | 0.7 |
| UX-700SD | 78 | - | < 2.5 | 0.7 |
| UX-800S | 75 | - | < 2.5 | 0.6 |
| UX-900S | 75 | - | < 2.5 | 0.6 |
| UX-1000S | 75 | - | 2.8 | 0.7 |
| UX-1300S | 77 | - | 2.9 | 0.7 |
| UXR-2000S | 85 | 96 | 3.2 | 0.7 |
| UXR-2400S | 85 | 96 | 4.1 | 0.8 |
| UXR-3000S | 85 | 96 | 4.7 | 0.9 |
| Angle Head Non Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UX-500C | 82 | 93 | 12.4 | 1.6 |
| UX-612C | 85 | 96 | 14.9 | 1.8 |
| UX-700C | 85 | 96 | 18.6 | 2.4 |
| UX-800C | 86 | 97 | 20.0 | 2.0 |
| UX-900C | 90 | 101 | 26.0 | 3.0 |
| UX-1000C | 90 | 101 | 18.9 | 2.9 |
| UX-612A | 85 | 96 | 14.1 | 1.7 |
| Non Shut-off Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UX-ST800 | 75 | - | < 2.5 | 0.54 |
| UX-ST1000 | 75 | - | < 2.5 | 0.56 |

| Pistol Grip Electric Pulse Tools | EN60745 | | ISO 28927-2 *measured under load | |
|--|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UDP-A60LMC | 74 | - | < 2.5 | 0.60 |
| UDP-A60MC | 74 | - | < 2.5 | 0.60 |
| UDP-A80MC | 76 | - | < 2.5 | 0.63 |
| UEP-50MC | 70 | - | < 2.5 | 0.53 |
| UEP-50DMC | 70 | - | < 2.5 | 0.58 |
| UEP-60MC | 70 | - | < 2.5 | 0.56 |
| UEP-60DMC | 70 | - | < 2.5 | 0.63 |
| UEP-70MC | 72 | - | < 2.5 | 0.58 |
| UEP-80MC | 75 | - | < 2.5 | 0.58 |
| UEP-100MC | 75 | - | < 2.5 | 0.6 |
| UEP-50 | 70 | - | < 2.5 | 0.52 |
| UEP-50D | 70 | - | < 2.5 | 0.55 |
| UEP-60 | 70 | - | < 2.5 | 0.54 |
| UEP-60D | 70 | - | < 2.5 | 0.56 |
| UEP-70 | 72 | - | < 2.5 | 0.57 |
| UEP-80 | 75 | - | < 2.5 | 0.59 |
| UEP-100 | 75 | - | < 2.5 | 0.6 |

The noise measurement method of EN60745 is much aligned with ISO15744.

| Transducerized Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
|-------------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UA40MC | 78 | - | < 2.5 | 0.53 |
| UA40DMC | 78 | - | < 2.5 | 0.55 |
| UA50MC | 78 | - | < 2.5 | 0.54 |
| UA50DMC | 78 | - | < 2.5 | 0.55 |
| UA60MC | 80 | - | < 2.5 | 0.54 |
| UA70MC | 80 | - | < 2.5 | 0.55 |
| UA80MC | 80 | - | < 2.5 | 0.56 |
| UA90MC | 82 | 93 | < 2.5 | 0.58 |
| UA100MC | 82 | 93 | < 2.5 | 0.60 |
| UA130MC | 82 | 93 | < 2.5 | 0.63 |
| UA40SMC | 78 | - | < 2.5 | 0.7 |
| UA40SDMC | 78 | - | 2.7 | 0.7 |
| UA50SMC | 78 | - | 2.7 | 0.7 |
| UA50SDMC | 78 | - | 3.1 | 0.7 |
| UA60SMC | 80 | - | 3.1 | 0.7 |
| UA60SDMC | 80 | - | 3.5 | 0.8 |
| UA70SMC | 80 | - | 3.3 | 0.7 |
| UA400AMC | 78 | - | < 2.5 | 0.54 |
| UA500AMC | 78 | - | < 2.5 | 0.55 |
| UA600AMC | 80 | - | < 2.5 | 0.55 |
| UA700AMC | 80 | - | < 2.5 | 0.56 |
| UA800AMC | 80 | - | < 2.5 | 0.57 |
| UA90AMC | 82 | 93 | < 2.5 | 0.57 |
| UA100AMC | 82 | 93 | < 2.5 | 0.60 |
| UA130AMC | 82 | 93 | < 2.5 | 0.6 |

NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Transducerized Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
|--|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| U-50EC | 72 | - | 2.8 | 0.7 |
| U-50DEC | 72 | - | 2.9 | 0.7 |
| U-60EC | 75 | - | 3.6 | 0.8 |
| U-60DEC | 75 | - | 3.8 | 0.8 |
| UX-80EC | 77 | - | 5.0 | 0.9 |
| U-100EC | 78 | - | 9.8 | 1.30 |
| UX-120EC | 80 | - | 10.8 | 1.4 |
| UX-130EC | 80 | - | 16.7 | 1.8 |
| ALPHA-60MC | 75 | - | < 2.5 | 0.50 |
| ALPHA-60DMC | 75 | - | < 2.5 | 0.51 |
| ALPHA-70MC | 75 | - | < 2.5 | 0.51 |
| ALPHA-80MC | 78 | - | < 2.5 | 0.52 |
| ALPHA-90MC | 78 | - | < 2.5 | 0.54 |
| ALPHA-101MC | 80 | - | < 2.5 | 0.55 |
| ALPHA-110MC | 80 | - | < 2.5 | 0.57 |
| ALPHA-130MC | 82 | 93 | < 2.5 | 0.6 |
| ALPHA-140MC | 84.5 | 95.5 | 2.8 | 0.7 |
| UXR-1820MC | 84 | 95 | < 2.5 | 0.6 |
| UXR-2000MC | 85 | 96 | 2.7 | 0.7 |
| Straight Type Transducerized Pulse Tools | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| U-50SEC | 72 | - | 27 | 3 |
| U-50SDEC | 72 | - | 28 | 3 |
| U-60SEC | 75 | - | 37 | 4 |
| ALPHA-60SMC | 75 | - | < 2.5 | 0.55 |
| UXR-2400SMC | 85 | 96 | 3.8 | 0.8 |
| Pistol Grip Battery Pulse Tools | EN60745 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UDBP-TA40 | 75 | - | < 2.5 | 0.55 |
| UDBP-TA40(P) | 75 | - | < 2.5 | 0.54 |
| UDBP-TA50 | 76 | - | < 2.5 | 0.56 |
| UDBP-TA50(P) | 76 | - | < 2.5 | 0.54 |
| UDBP-TA60 | 77 | - | < 2.5 | 0.57 |
| UDBP-TA60(P) | 76 | - | < 2.5 | 0.55 |
| UDBP-TA70(P) | 76 | - | < 2.5 | 0.57 |
| UDBP-A50 | 76 | - | < 2.5 | 0.56 |
| UDBP-A50(P) | 76 | - | < 2.5 | 0.54 |
| UDBP-A60 | 77 | - | < 2.5 | 0.60 |
| UDBP-A60(P) | 77 | - | < 2.5 | 0.60 |
| UBP-T40 | 85 | 96 | 7.1 | 1.10 |
| UBP-T50 | 85 | 96 | 7.8 | 1.1 |
| UBP-T50(P) | 85 | 96 | 6.9 | 1.1 |
| UBP-T60 | 85 | 96 | 8.5 | 1.2 |
| UBP-T60(P) | 85 | 96 | 7.9 | 1.2 |
| UBP-65 | 83 | 94 | 8.7 | 1.2 |
| UBP-65(P) | 83 | 94 | 8.3 | 1.2 |

The noise measurement method of EN60745 is much aligned with ISO15744.

| Pistol Grip Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
|-------------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-6SLRK | 91 | 102 | 3.8 | 0.8 |
| UW-6SHBRK | 92 | 103 | 4.3 | 0.8 |
| UW-6SLK | 92 | 103 | 3.9 | 0.8 |
| UW-6SLK | 92 | 103 | 4.2 | 0.8 |
| UW-6SK | 93 | 104 | 3.8 | 0.8 |
| UW-6SAK | 93 | 104 | 4.1 | 0.8 |
| UW-6SHK | 92 | 103 | 4.2 | 0.8 |
| UW-6SLRDK | 91 | 102 | 4.1 | 0.8 |
| UW-6SHBRDK | 91 | 102 | 4.6 | 0.9 |
| UW-6SLDK | 92 | 103 | 4.3 | 0.8 |
| UW-6SLDK | 92 | 103 | 4.8 | 0.9 |
| UW-6SDK | 93 | 104 | 4.4 | 0.8 |
| UW-6SADK | 93 | 104 | 4.9 | 0.9 |
| UW-6SHDK | 92 | 103 | 5.0 | 0.9 |
| Straight Type Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-6SSLRK | 90 | 101 | 5.3 | 0.9 |
| UW-6SSRK | 90 | 101 | 5.0 | 0.9 |
| UW-6SSHRK | 91 | 102 | 6.7 | 1.1 |
| UW-6SSLK | 91 | 102 | 5.3 | 0.9 |
| UW-6SSK | 91 | 102 | 5.0 | 0.9 |
| UW-6SSHK | 92 | 103 | 6.9 | 1.1 |
| UW-6SSLRDK | 90 | 101 | 6.0 | 1.0 |
| UW-6SSRDK | 90 | 101 | 6.1 | 1.0 |
| UW-6SSHRDK | 91 | 102 | 7.0 | 1.1 |
| UW-6SSLDK | 91 | 102 | 6.6 | 1.0 |
| UW-6SSDK | 91 | 102 | 5.5 | 0.9 |
| UW-6SSHDK | 92 | 103 | 7.3 | 1.1 |
| Angle Head Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-6CSLRK | 93 | 104 | 18.4 | 2.1 |
| UW-6CSRK | 94 | 105 | 18.0 | 2.1 |
| UW-6CSHRK | 94 | 105 | 27.0 | 3.0 |
| UW-6ASLRK | 92 | 103 | 17.8 | 2.0 |
| UW-6CSLK | 93 | 104 | 18.2 | 2.1 |
| UW-6CSK | 94 | 105 | 18.2 | 2.1 |
| UW-6CSHK | 94 | 105 | 27.0 | 3.0 |
| UW-6ASLK | 92 | 103 | 17.6 | 2.0 |

NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Pistol Grip Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
|-------------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-61ERK | 91 | 102 | 4.0 | 0.8 |
| UW-101ERK | 96 | 107 | 5.8 | 1.0 |
| UW-131ERK | 97 | 108 | 7.6 | 1.1 |
| UW-161ER | 96 | 107 | 6.3 | 1.0 |
| UW-8SHRK | 93 | 104 | 5.6 | 1.0 |
| UW-9SRK | 93 | 104 | 5.1 | 0.9 |
| UW-10SHRK | 95 | 106 | 5.8 | 1.0 |
| UW-13SRK | 95 | 106 | 7.7 | 1.1 |
| UW-8SHK | 95 | 106 | 5.3 | 0.9 |
| UW-9SK | 95 | 106 | 5.0 | 0.9 |
| UW-10SHK | 97 | 108 | 5.8 | 1.0 |
| UW-13SK | 97 | 108 | 7.8 | 1.2 |
| Straight Type Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-9SSK | 95 | 106 | 10.5 | 1.4 |
| UW-9SSRK | 95 | 106 | 10.7 | 1.4 |
| UW-13SSK | 97 | 108 | 12.7 | 1.6 |
| Angle Head Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-9CSK | 95 | 106 | 31 | 3 |
| UW-9CSRK | 95 | 106 | 33 | 3 |
| UW-13CSK | 97 | 108 | 35 | 4 |
| Pistol Grip Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-140P | 93 | 104 | 6.3 | 1.0 |
| UW-140PR | 93 | 104 | 6.6 | 1.0 |
| UW-140PL | 93 | 104 | 6.4 | 1.0 |
| UW-140PRL | 93 | 104 | 6.7 | 1.0 |
| UW-220P | 95 | 106 | 5.6 | 1.0 |
| UW-220PL | 95 | 106 | 5.7 | 1.0 |
| UW-251P | 95 | 106 | 5.7 | 1.0 |
| UW-251PL | 95 | 106 | 5.8 | 1.0 |
| UW-022S(SHORT) | 103 | 114 | 6.0 | 1.0 |
| UW-022S(LONG) | 103 | 114 | 5.7 | 1.0 |
| UW-032S(SHORT) | 109 | 120 | 6.2 | 1.0 |
| UW-032S(LONG) | 109 | 120 | 5.9 | 1.0 |
| UW-381P | 99 | 110 | 6.2 | 1.0 |
| UW-381PL | 99 | 110 | 6.0 | 1.0 |

| Straight Type Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
|-------------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-22S(IN) | 103 | 114 | 6.5 | 1.0 |
| UW-22S(SHORT) | 103 | 114 | 6.6 | 1.0 |
| UW-22S(LONG) | 103 | 114 | 6.3 | 1.0 |
| UW-32SLA(SHORT) | 109 | 120 | 6.2 | 1.0 |
| UW-32SLA(L) | 109 | 120 | 5.9 | 1.0 |
| UW-381 | 100 | 111 | 7.6 | 1.1 |
| UW-381L | 100 | 111 | 7.5 | 1.1 |
| UW-401(SHORT) | 110 | 121 | 8.9 | 1.3 |
| UW-401L | 110 | 121 | 9.0 | 1.3 |
| Stud Bolt Impact Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UW-ST6SHK | 92 | 103 | 4.1 | 0.8 |
| UW-ST9SK | 97 | 108 | 4.9 | 0.9 |
| UW-ST10SHK | 97 | 108 | 5.8 | 1.0 |
| UW-ST6SSHK | 92 | 103 | 6.6 | 1.0 |
| Ratchet Wrenches | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| URW-6 | 81 | 92 | 3.2 | 0.7 |
| URW-60 | 85 | 96 | 3.4 | 0.8 |
| URW-60R | 85 | 96 | 3.4 | 0.8 |
| URW-8N | 90 | 101 | 3.2 | 0.7 |
| URW-80 | 93 | 104 | 4.0 | 0.8 |
| URW-80R | 93 | 104 | 4.0 | 0.8 |
| URW-81 | 93 | 104 | 4.0 | 0.8 |
| URW-81R | 93 | 104 | 4.0 | 0.8 |
| URW-8 | 86 | 97 | 3.3 | 0.8 |
| URW-9N | 90 | 101 | 3.3 | 0.7 |
| URW-10N | 90 | 101 | 3.3 | 0.8 |
| URW-12N | 91 | 102 | 3.6 | 0.8 |
| URW-12NA | 91 | 102 | 3.6 | 0.8 |
| URW-12NB | 91 | 102 | 4.1 | 0.8 |
| Open-Ended Wrenches | ISO 15744 | | ISO 28927-2 *measured at free running | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UOW-11-10 | 76 | - | < 2.5 | 0.47 |
| UOW-11-14 | 76 | - | < 2.5 | 0.47 |
| UOW-11-22 | 76 | - | < 2.5 | 0.47 |
| UOW-11-30 | 76 | - | < 2.5 | 0.47 |
| UOW-T60-10 | 76 | - | < 2.5 | 0.47 |
| UOW-T60-14 | 76 | - | < 2.5 | 0.47 |
| UOW-T60-22 | 76 | - | < 2.5 | 0.47 |
| UOW-T60-30 | 76 | - | < 2.5 | 0.48 |

NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Geared Wrenches | ISO 15744 | | ISO 28927-2 *measured at free running | |
|---------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UGW-6N | 76 | - | < 2.5 | 0.48 |
| UGW-8N | 76 | - | < 2.5 | 0.48 |
| Electric Angle Nutrunners | EN60745 | | ISO 28927-2 *measured at free running | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UAN-F130-025 | 70 | - | < 2.5 | 0.53 |
| UAN-F130-040 | 70 | - | < 2.5 | 0.54 |
| UAN-F130-060 | 70 | - | < 2.5 | 0.54 |
| UAN-F130-080 | 75 | - | < 2.5 | 0.54 |
| UAN-F130-120 | 75 | - | < 2.5 | 0.55 |

The noise measurement method of EN60745 is much aligned with ISO15744.

| Angle Nutrunners | ISO 15744 | | ISO 28927-2 *measured at free running | |
|------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UAN-611R-60C | 80 | - | < 2.5 | 0.48 |
| UAN-611R-50C | 80 | - | < 2.5 | 0.48 |
| UAN-611R-40C | 80 | - | < 2.5 | 0.48 |
| UAN-611R-30C | 80 | - | < 2.5 | 0.48 |
| UAN-701R-60C | 85 | 96 | < 2.5 | 0.51 |
| UAN-701R-40C | 85 | 96 | < 2.5 | 0.50 |
| UAN-701R-30C | 85 | 96 | < 2.5 | 0.50 |
| UAN-611RM-60C | 80 | - | < 2.5 | 0.49 |
| UAN-611RM-50C | 80 | - | < 2.5 | 0.48 |
| UAN-611RM-40C | 80 | - | < 2.5 | 0.48 |
| UAN-611RM-30C | 80 | - | < 2.5 | 0.48 |
| UAN-701RM-60C | 85 | 96 | < 2.5 | 0.51 |
| UAN-701RM-40C | 85 | 96 | < 2.5 | 0.50 |
| UAN-701RM-30C | 85 | 96 | < 2.5 | 0.50 |
| Straight Screwdrivers | ISO 15744 | | ISO 28927-2 *measured at free running | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| US-LT10B | 75 | - | < 2.5 | 0.48 |
| US-LT20A(B)-26 | 71 | - | < 2.5 | 0.48 |
| US-LT20A(B)-18 | 70 | - | < 2.5 | 0.48 |
| US-LT20A(B)-10 | 70 | - | < 2.5 | 0.48 |
| US-LT30A(B)-23 | 71 | - | < 2.5 | 0.48 |
| US-LT30A(B)-17 | 70 | - | < 2.5 | 0.48 |
| US-LT30A(B)-11 | 70 | - | < 2.5 | 0.48 |
| US-LT40A(B)-21 | 74 | - | < 2.5 | 0.48 |
| US-LT40A(B)-15 | 70 | - | < 2.5 | 0.48 |
| US-LT40A(B)-08 | 70 | - | < 2.5 | 0.48 |
| US-LT50B-17 | 75 | - | < 2.5 | 0.48 |
| US-LT50B-08 | 75 | - | < 2.5 | 0.48 |
| US-LT50B-05 | 74 | - | < 2.5 | 0.49 |
| US-LT30A(B)L-23 | 71 | - | < 2.5 | 0.48 |
| US-LT30A(B)L-17 | 70 | - | < 2.5 | 0.48 |
| US-LT30A(B)L-11 | 70 | - | < 2.5 | 0.48 |
| US-LT40BL-21 | 74 | - | < 2.5 | 0.48 |
| US-LT40A(B)L-15 | 70 | - | < 2.5 | 0.48 |
| US-LT40BL-08 | 70 | - | < 2.5 | 0.48 |

| Pistol Grip Screwdrivers | ISO 15744 | | ISO 28927-2 *measured at free running | |
|--------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| US-LT31PB-23 | 70 | - | < 2.5 | 0.48 |
| US-LT31PB-17 | 70 | - | < 2.5 | 0.48 |
| US-LT31PB-11 | 70 | - | < 2.5 | 0.48 |
| US-LT31PB-05 | 70 | - | < 2.5 | 0.48 |
| US-LT41PB-21 | 74 | - | < 2.5 | 0.48 |
| US-LT41PB-15 | 70 | - | < 2.5 | 0.48 |
| US-LT41PB-08 | 70 | - | < 2.5 | 0.48 |
| US-LT51PB-17 | 75 | - | < 2.5 | 0.48 |
| US-LT51PB-08 | 75 | - | < 2.5 | 0.48 |
| US-LT51PB-05 | 74 | - | < 2.5 | 0.49 |
| US-LT60P-11 | 77 | - | < 2.5 | 0.48 |
| US-LT60P-07 | 76 | - | < 2.5 | 0.49 |
| US-LT60P-03 | 75 | - | < 2.5 | 0.49 |

| Angle Head Screwdrivers | ISO 15744 | | ISO 28927-2 *measured at free running | |
|-------------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| US-LT30B-17C | 73 | - | < 2.5 | 0.48 |
| US-LT30B-11C | 73 | - | < 2.5 | 0.48 |
| US-LT40B-15C | 75 | - | < 2.5 | 0.48 |
| US-LT40B-08C | 75 | - | < 2.5 | 0.48 |
| US-LT40B-05C | 75 | - | < 2.5 | 0.48 |
| US-LT40-08C(P) | 75 | - | < 2.5 | 0.48 |
| US-LT40-05C(P) | 75 | - | < 2.5 | 0.48 |
| US-LT40-03C(P) | 72 | - | < 2.5 | 0.48 |

| Screwdrivers | ISO 15744 | | ISO 28927-2 *measured at free running | |
|------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{wA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| US-3.5A | 75 | - | < 2.5 | 0.48 |
| US-3.5B | 75 | - | < 2.5 | 0.48 |
| US-4 | 75 | - | < 2.5 | 0.48 |
| US-5 | 75 | - | < 2.5 | 0.48 |
| US-3.5MA | 75 | - | < 2.5 | 0.48 |
| US-40 | 70 | - | < 2.5 | 0.48 |
| US-50 | 76 | - | < 2.5 | 0.48 |
| US-3.5PB | 75 | - | < 2.5 | 0.48 |
| US-4PB | 75 | - | < 2.5 | 0.48 |
| US-5PB | 75 | - | < 2.5 | 0.48 |
| US-3.5ACB | 85 | 96 | < 2.5 | 0.48 |
| US-4CA | 85 | 96 | < 2.5 | 0.48 |
| US-5CA | 85 | 96 | < 2.5 | 0.48 |

NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Screwdrivers | ISO 15744 | | ISO 28927-2 *measured at free running | |
|-------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| US-LD40P-21 | 74 | - | < 2.5 | 0.48 |
| US-LD40P-15 | 70 | - | < 2.5 | 0.48 |
| US-LD40P-08 | 70 | - | < 2.5 | 0.48 |
| US-LD50P-17 | 75 | - | < 2.5 | 0.48 |
| US-LD50P-08 | 75 | - | < 2.5 | 0.48 |
| US-LD50P-05 | 74 | - | < 2.5 | 0.49 |
| Impact Drivers | ISO 15744 | | ISO 28927-2 *measured under load | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| US-5W | 85 | 96 | 4.7 | 0.9 |
| US-6W | 85 | 96 | 4.9 | 0.9 |
| US-350PW | 81 | 92 | 2.8 | 0.7 |
| US-450PW | 79 | - | 2.9 | 0.7 |
| US-5PW | 85 | 96 | 2.8 | 0.7 |
| US-6PW | 85 | 96 | 3.0 | 0.7 |
| US-652PW | 79 | - | 3.7 | 0.8 |
| Die Grinders | ISO 15744 | | ISO 28927-12 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UG-25NA | 82 | 93 | < 2.5 | 0.6 |
| G-38EB | 85 | 96 | < 2.5 | 0.6 |
| UG-38N | 85 | 96 | < 2.5 | 0.7 |
| UG-38NA | 75 | - | < 2.5 | 0.6 |
| UG-38NL | 85 | 96 | 4.0 | 0.8 |
| UG-50S-200 | 73 | - | 2.6 | 0.7 |
| UG-25NSA | 82 | 93 | < 2.5 | 0.59 |
| UG-38NS | 85 | 96 | < 2.5 | 0.7 |
| UG-38NSA | 75 | - | < 2.5 | 0.7 |
| UG-38NSL | 85 | 96 | 4.1 | 0.8 |
| UMG-450 | 75 | - | < 2.5 | 0.58 |
| UG-45H | 76 | - | < 2.5 | 0.63 |
| UG-20A-200 | 75 | - | 2.6 | 0.7 |
| UG-20A-120 | 76 | - | 3.0 | 0.7 |
| UG-50S-200A | 75 | - | 2.8 | 0.7 |
| Straight Grinders | ISO 15744 | | ISO 28927-4 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UG-65E | 88 | 99 | < 2.5 | 0.6 |
| UG-65ER | 85 | 96 | < 2.5 | 0.6 |
| UG-65EL | 85 | 96 | < 2.5 | 0.7 |
| UG-65EB | 95 | 106 | < 2.5 | 0.7 |
| UG-65EBR | 95 | 106 | < 2.5 | 0.7 |
| UG-65EBL | 95 | 106 | < 2.5 | 0.7 |
| UG-650E | 85 | 96 | < 2.5 | 0.7 |
| UG-650ER | 85 | 96 | 2.5 | 0.7 |
| UG-650EL | 85 | 96 | < 2.5 | 0.7 |

| Angle Grinders | ISO 15744 | | ISO 28927-1 | |
|-------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| AG-50 | 80 | - | < 2.5 | 0.7 |
| AG-50L | 80 | - | < 2.5 | 0.7 |
| AG-100 | 80 | - | < 2.5 | 0.53 |
| AG-100L | 80 | - | < 2.5 | 0.55 |
| AG-100S | 80 | - | < 2.5 | 0.51 |
| AG-100SL | 80 | - | < 2.5 | 0.52 |
| USG-4S | 80 | - | 3.5 | 1.1 |
| USG-7S | 85 | 96 | 4.7 | 1.4 |
| USG-L180D | 85 | 96 | 4.6 | 1.4 |
| Vertical Grinders | ISO 15744 | | ISO 28927-1 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| USG-4VL | 88 | 99 | < 2.5 | 0.6 |
| USG-5VLA | 88 | 99 | < 2.5 | 0.7 |
| UVG-1500SL-76 | 78 | - | 4.0 | 1.2 |
| UVG-1500SL-84 | 78 | - | 3.9 | 1.2 |
| UVG-1800SL-59 | 78 | - | 4.2 | 1.3 |
| UVG-1800SL-76 | 78 | - | 4.2 | 1.3 |
| UVG-1800SL-84 | 78 | - | 4.1 | 1.3 |
| UVG-2300SL-59 | 82 | 93 | 4.1 | 1.2 |
| Angle Grinders | ISO 15744 | | ISO 28927-1 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UAG-40SB-136 | 84 | 95 | 4.1 | 1.2 |
| UAG-40SBL-136 | 84 | 95 | 4.1 | 1.3 |
| UAG-40SC-136 | 84 | 95 | 4.1 | 1.3 |
| UAG-40SCL-136 | 84 | 95 | 4.1 | 1.3 |
| UAG-50SBL-120 | 82 | 93 | 4.1 | 1.2 |
| UAG-50SCL-120 | 82 | 93 | 4.1 | 1.2 |
| UAG-50SC-120 | 82 | 93 | 4.0 | 1.2 |
| UAG-50SB-109 | 82 | 93 | 4.0 | 1.2 |
| UAG-50SBL-109 | 82 | 93 | 4.0 | 1.2 |
| UAG-70SBL-76 | 83 | 94 | 5.2 | 1.6 |
| UAG-70SB-76 | 83 | 94 | 5.2 | 1.6 |
| UAG-70SC-76 | 83 | 94 | 5.2 | 1.6 |
| UAG-70SCL-76 | 83 | 94 | 5.2 | 1.6 |
| UAG-90SBL-59 | 88 | 99 | 6.0 | 1.8 |

NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Straight Grinders | ISO 15744 | | ISO 28927-4 | |
|---------------------|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UG-1250-72 | 88 | 99 | < 2.5 | 0.7 |
| UG-1250L-72 | 88 | 99 | < 2.5 | 0.7 |
| UG-1500-60 | 88 | 99 | < 2.5 | 0.48 |
| UG-1500-41 | 88 | 99 | < 2.5 | 0.44 |
| UG-1500L-60 | 88 | 99 | < 2.5 | 0.45 |
| UG-1500L-41 | 88 | 99 | < 2.5 | 0.41 |
| UG-2000L-45 | 90 | 101 | < 2.5 | 0.39 |
| UG-2000L-31 | 90 | 101 | < 2.5 | 0.37 |
| Sanders & Polishers | ISO 15744 | | ISO 28927-3 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| USG-45P | 81 | 92 | < 2.5 | 0.63 |
| AG-180W | 86 | 97 | 2.5 | 0.7 |
| UP-80-15 | 82 | 93 | < 2.5 | 0.55 |
| UP-80-40 | 84 | 95 | < 2.5 | 0.56 |
| UP-80-60 | 85 | 96 | < 2.5 | 0.57 |
| UP-15 | 87 | 98 | 6.3 | 1.0 |
| UP-25DB | 73 | - | 5.5 | 0.9 |
| UP-26DB | 74 | - | 5.8 | 0.9 |
| UP-15N | 94 | 105 | 6.4 | 1.0 |
| UP-25NB | 97 | 108 | 5.9 | 0.9 |
| UP-26NB | 98 | 109 | 6.0 | 1.0 |
| Pistol-Grip Drills | ISO 15744 | | ISO 28927-5 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UD-50-200 | 73 | - | < 2.5 | 0.61 |
| UD-50-45 | 72 | - | < 2.5 | 0.58 |
| UD-50-22 | 72 | - | < 2.5 | 0.59 |
| UD-60-29 | 77 | - | < 2.5 | 0.61 |
| UD-60-20 | 77 | - | < 2.5 | 0.60 |
| UD-60-15 | 76 | - | < 2.5 | 0.57 |
| UD-60-07 | 75 | - | < 2.5 | 0.58 |
| UD-60-04 | 75 | - | < 2.5 | 0.57 |
| UD-80-12 | 79 | - | < 2.5 | 0.60 |
| UD-80-07 | 79 | - | < 2.5 | 0.6 |
| UD-80-04 | 79 | - | < 2.5 | 0.62 |

| Straight Drills | ISO 15744 | | ISO 28927-5 | |
|--|---|--------------------------------------|--|---------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UD-50S-200 | 78 | - | < 2.5 | 0.6 |
| UD-50S-45 | 77 | - | < 2.5 | 0.61 |
| UD-50S-22 | 77 | - | < 2.5 | 0.61 |
| UD-60S-29 | 77 | - | < 2.5 | 0.6 |
| UD-60S-20 | 77 | - | < 2.5 | 0.68 |
| UD-60S-15 | 77 | - | < 2.5 | 0.67 |
| UD-60S-07 | 75 | - | < 2.5 | 0.63 |
| UD-60S-04 | 75 | - | < 2.5 | 0.63 |
| UD-80S-12 | 79 | - | < 2.5 | 0.6 |
| UD-80S-07 | 79 | - | < 2.5 | 0.6 |
| UD-80S-04 | 79 | - | < 2.5 | 0.6 |
| UD-80-12G | 79 | - | < 2.5 | 0.65 |
| UD-80-07G | 79 | - | < 2.5 | 0.65 |
| UD-80-04G | 79 | - | < 2.5 | 0.63 |
| Angle Head Drills | ISO 15744 | | ISO 28927-5 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UD-50S-45A | 79 | - | < 2.5 | 0.68 |
| UD-50S-22A | 79 | - | < 2.5 | 0.67 |
| UD-60S-29C | 79 | - | < 2.5 | 0.7 |
| UD-60S-15C | 79 | - | < 2.5 | 0.69 |
| Heavy Duty Drill | ISO 15744 | | ISO 28927-10 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| URD-22RR | 95 | 106 | < 2.5 | 0.7 |
| Tappers | ISO 15744 | | ISO 20643 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| UT-66B-15 | 85 | 96 | < 2.5 | 0.61 |
| UT-66B-07 | 85 | 96 | < 2.5 | 0.61 |
| UT-60-07 | 75 | - | < 2.5 | 0.69 |
| UT-60-04 | 75 | - | < 2.5 | 0.59 |
| UT-60S-07 | 75 | - | < 2.5 | 0.59 |
| UT-60S-04 | 75 | - | < 2.5 | 0.56 |
| Pistol/Straight Type Rivetting Hammers | ISO 15744 | | ISO 28927-10 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| SBH-0 | 90 | 101 | < 2.5 | 0.6 |
| SBH-1A (R, H) | 92 | 103 | 4.5 | 0.9 |
| BRH-1U (R, H) | 95 | 106 | 7.8 | 1.1 |
| BRH-1US (R, H) | 95 | 106 | 7.5 | 1.1 |
| BRH-1UG (R, H) | 95 | 106 | 7.5 | 1.1 |
| BRH-5U (R, H) | 95 | 106 | 7.6 | 1.1 |
| BRH-5US (R, H) | 95 | 106 | 7.4 | 1.1 |
| BRH-5UG (R, H) | 95 | 106 | 7.3 | 1.1 |

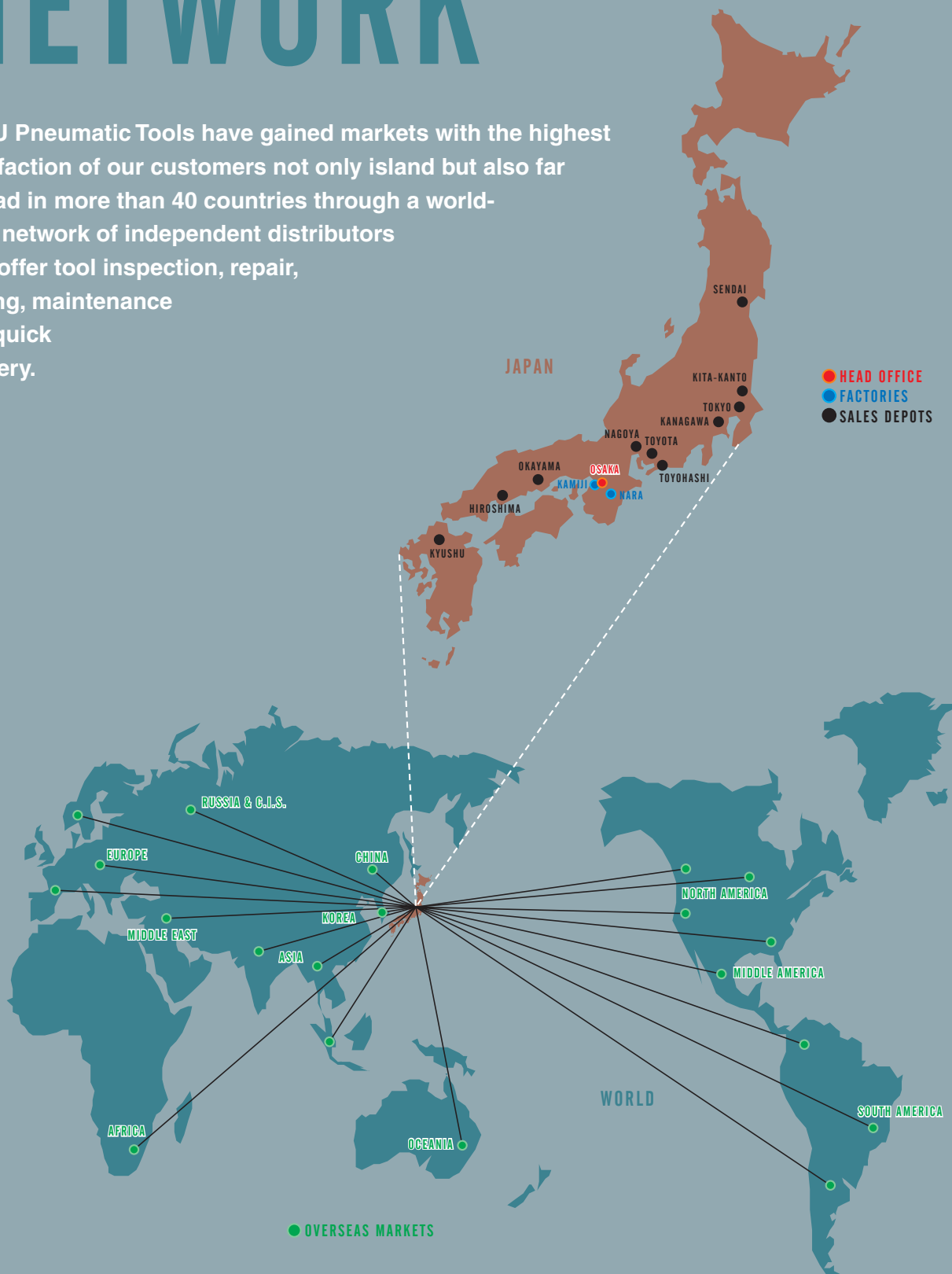
NOISE LEVELS AND VIBRATION VALUES

The uncertainty in the sound levels is 3dB(A).

| Pistol/Straight Less-Vibration Type Rivetting Hammers | ISO 15744 | | ISO 28927-10 | |
|---|---|--|--|---------------------------------|
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| BRH-1UV (R, H) | 91 | 102 | 5.1 | 0.9 |
| BRH-5UV (R, H) | 91 | 102 | 5.5 | 0.9 |
| BRH-1USV (R, H) | 91 | 102 | 4.5 | 0.9 |
| BRH-5USV (R, H) | 91 | 102 | 5.1 | 0.9 |
| Impact Cutters & Flux Chippers | ISO 15744 | | ISO 28927-10 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| BRH-7 (R, H) | 100 | 111 | 7.5 | 1.1 |
| UFC-0N | 90 | 101 | 6.0 | 1.0 |
| UFC-1N | 90 | 101 | 5.9 | 1.0 |
| Chipping & Caulking Hammers | ISO 15744 | | ISO 28927-10 | |
| | Sound Pressure Level (L _{pA}) | Sound Power Level (L _{WA}) | Vibration Total Value (A _{hd}) | Vibration Uncertainty (K) |
| | dB(A) | dB(A) | m/sec ² | m/sec ² |
| AA-00 (R, H) | 95 | 106 | 5.0 | 0.9 |
| AA-20 (R, H) | 100 | 111 | 5.6 | 1.0 |
| AA-30 (R, H) | 100 | 111 | 6.0 | 1.0 |
| AA-40 (R, H) | 100 | 111 | 6.3 | 1.0 |
| PB-20 (R, H) | 100 | 111 | 6.6 | 1.0 |
| PB-30 (R, H) | 100 | 111 | 7.1 | 1.1 |

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URYU Pneumatic Tools have gained markets with the highest satisfaction of our customers not only island but also far abroad in more than 40 countries through a world-wide network of independent distributors who offer tool inspection, repair, testing, maintenance and quick delivery.



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13-10



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