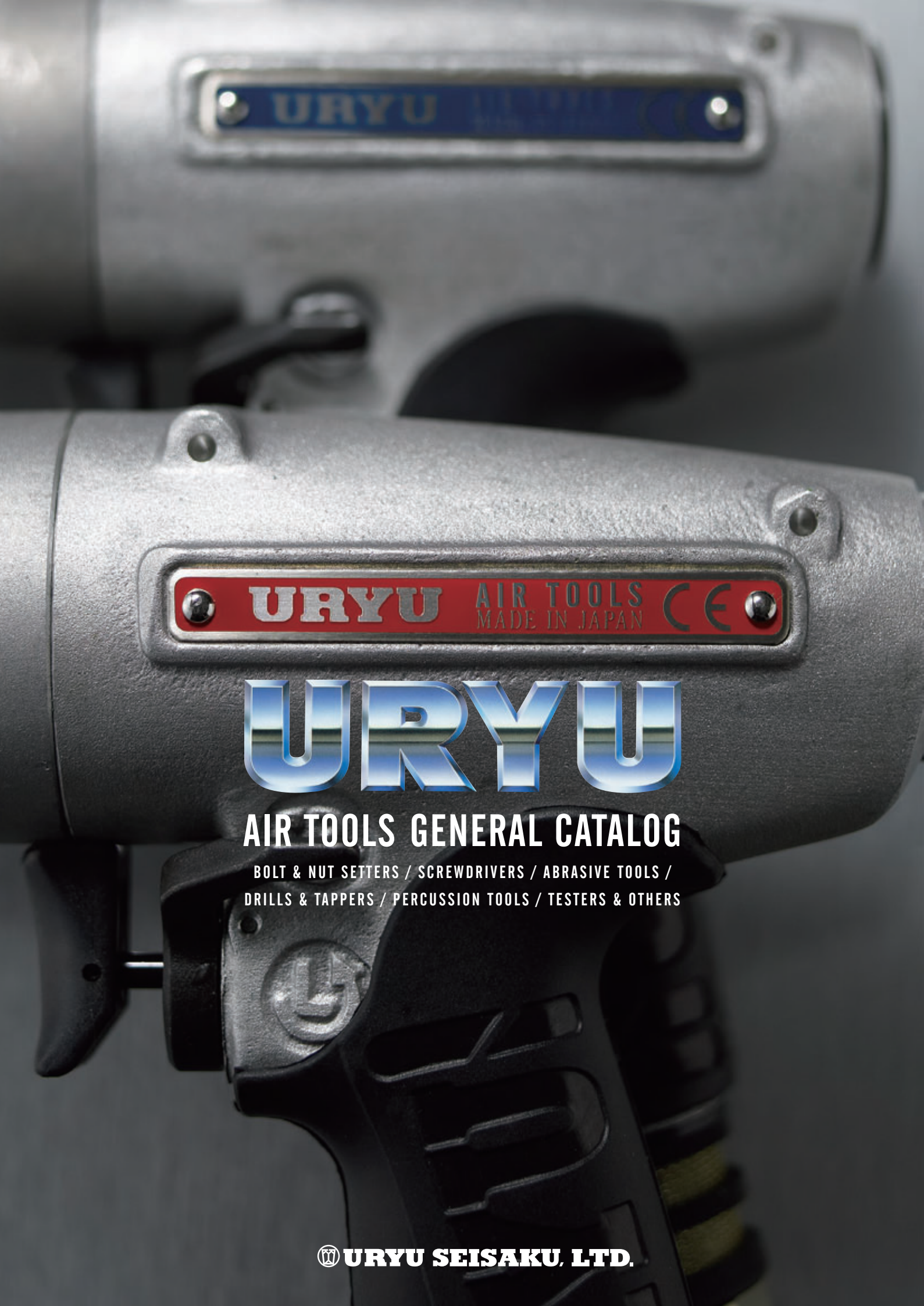


A close-up photograph of a URYU air tool, likely a drill or screwdriver, with a metallic body and a black handle. The tool is oriented horizontally. A red label is affixed to the side of the tool, featuring the URYU logo, the text 'AIR TOOLS MADE IN JAPAN', and a CE mark. The background is a soft, out-of-focus grey.

URYU

URYU

AIR TOOLS
MADE IN JAPAN



URYU

AIR TOOLS GENERAL CATALOG

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

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.

CERTIFICATION



ISO14001
in 1999



ISO9001
in 1996

URYU has acquired ISO14001 and ISO9001 certifications.



AIR TOOLS GENERAL CATALOG

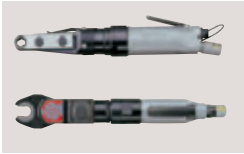
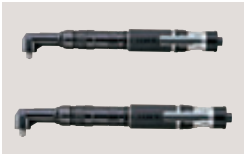
BOLT & NUT SETTERS / SCREWDRIVERS / ABRASIVE TOOLS /
 DRILLS & TAPPERS / PERCUSSION TOOLS / TESTERS & OTHERS
 (Individual catalog sheets and parts lists are available for further information.)

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CLASSIFICATION OF URYU PRODUCTS

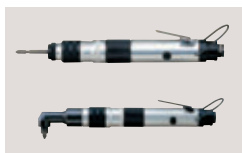
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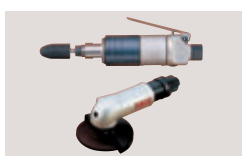
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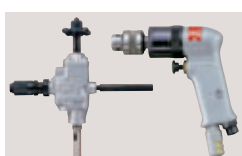
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OPERATOR'S SAFETY MANUAL FOR URYU PNEUMATIC TOOLS

1. The air pressure at the tool air inlet of Pneumatic Tools shall not exceed the maximum operating pressure 0.63MPa - 90 psi.
2. Air hoses and line shall be relieved of compressed air before being disconnected or disjointed, unless there is an automatic closing valve at the joint being separated.
3. An accessible means for shutting off air supply should be provided at each tool station.
4. Air hoses shall be blown out before connection to the tool and when not in use the air inlet shall be plugged.
5. Hose coupling shall be securely fitted to the tool and take off point. If an air hose and fitting are not correctly used or improperly installed, the air hose may come off and whip. Air Hose and fittings must be inspected regularly for damage and wear. Replace them when necessary.
6. Before the tool is connected to the air supply, check the throttle for proper operation(i.e., throttle moves freely and return to closed position.)
7. Operator of Pneumatic Tools shall be instructed in their proper use.
 - A) Handle with care, paying careful attention to the weight of the tool.
 - B) Keep hands and clothing away from the rotating parts of tools. Never wear loose-fitting clothes and be careful that long hair is not drawn in the tool during the operation
 - C) Hold the tool correctly. Anticipate and be alert for sudden changes in motion during start up and operation of any Pneumatic Tools. Keep body stance balanced and firm. Do not overreach when operating the tool.
 - D) Protective safety glasses and ear protectors shall be used. Other personal protective equipment such as gloves, apron and helmet shall be used when necessary.
 - E) The machine should be disconnected from the air supply before servicing or changing the accessories. This will prevent the tool from operating if the throttle is accidentally engaged.
 - F) Remember the tools are still running on for a while even after stopping operation. Do not lay down the tool until the tool completely stops moving.
 - G) Never use the air hose for supporting, lifting or lowering the tool. Use a line or cable on the tool when working in elevated areas.
 - H) Air Powered tools can vibrate in use. Vibration, repetitive motion or uncomfortable position may prove harmful to your hands and arms. Stop using any tool if discomfort, tingling feeling or pain occurs. Seek medical advice before resuming use.
 - I) Uryu Seisaku, Ltd. is not responsible for any troubles and accidents, caused by customer's own modifications of tools and accessories without having consulted with Uryu Seisaku, Ltd.
8. Where the working process in certain materials creates emission of dust and fumes, personnel shall be protected with dust collectors and personal protective device.
9. Check the spindle speed frequently with a tachometer to make sure that actual free speed at 0.6MPa does not exceed rated free speed marked on the tool.
10. If the tool is fixed to a balancer or a similar device, make sure that the fixation is secured.
11. When air supply is interrupted, retrain the throttle trigger to the stop position.
12. The Pneumatic Tools must not be used in explosive atmospheres.
13. The Pneumatic Tools are not insulated against coming into contact with electric power.

BOLT & NUT SETTERS



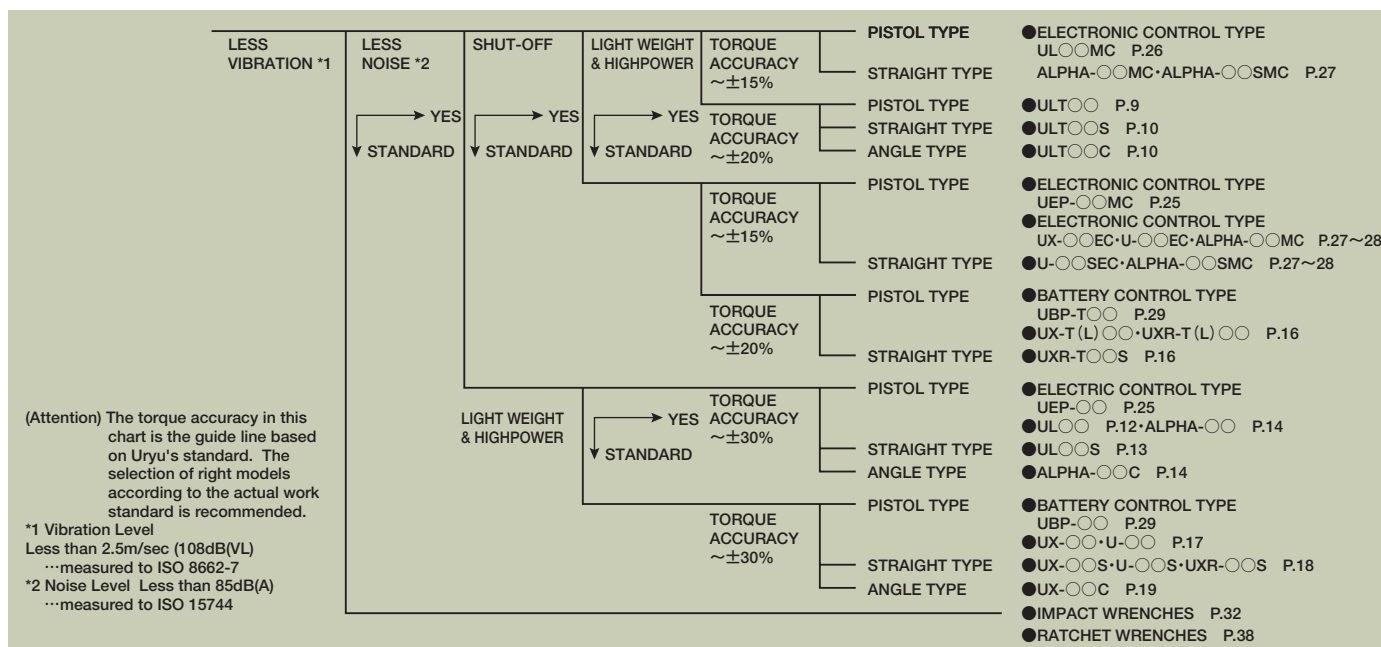
PHOTO ; MODEL NO. UXR-TL1820 1993
STILL USED AT USERS

ULT SERIES OIL-PULSE TOOLS
UL SERIES OIL-PULSE TOOLS
ALPHA SERIES OIL-PULSE TOOLS
UX-T SERIES OIL-PULSE TOOLS
U · UX 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
FASTENING COUNTER

* Sound Level measured to ISO 15744



SELECTION CHART & TORQUE CHART FOR OIL-PULSE WRENCHES



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.

Pistol Type



Lever-Start Straight Type



Right Angle Type

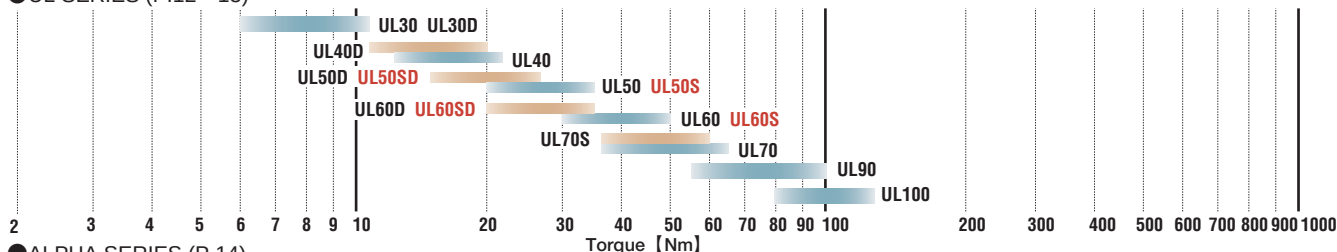


Angle Type

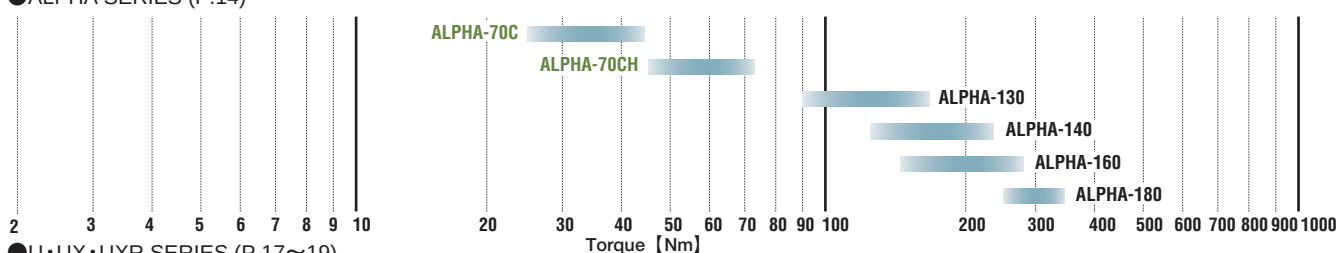


STANDARD TYPE

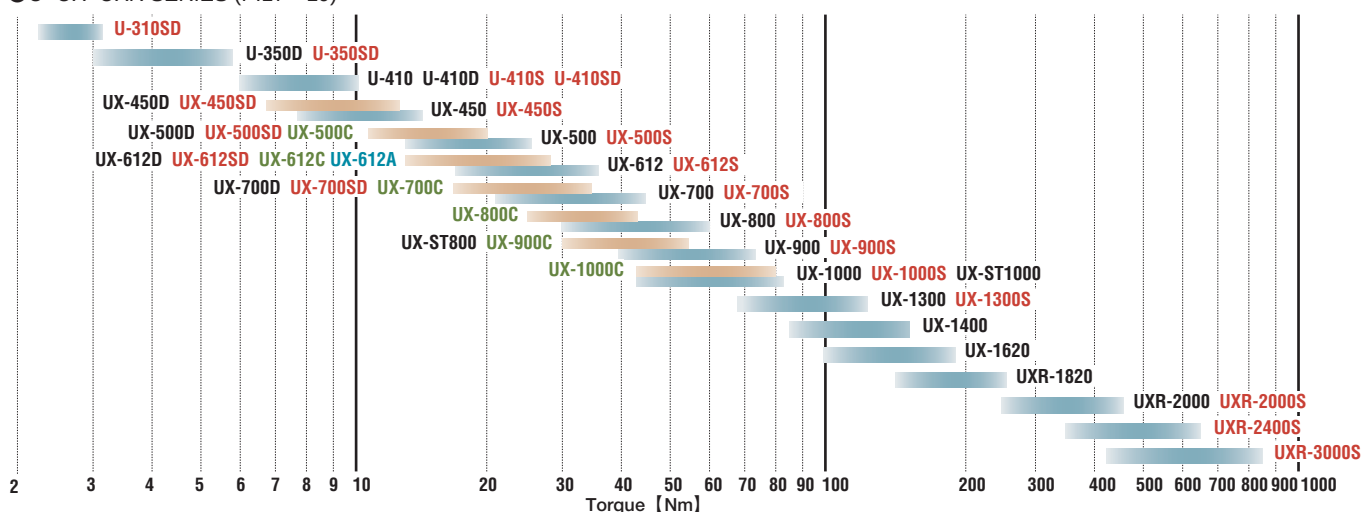
●UL SERIES (P.12~13)



●ALPHA SERIES (P.14)



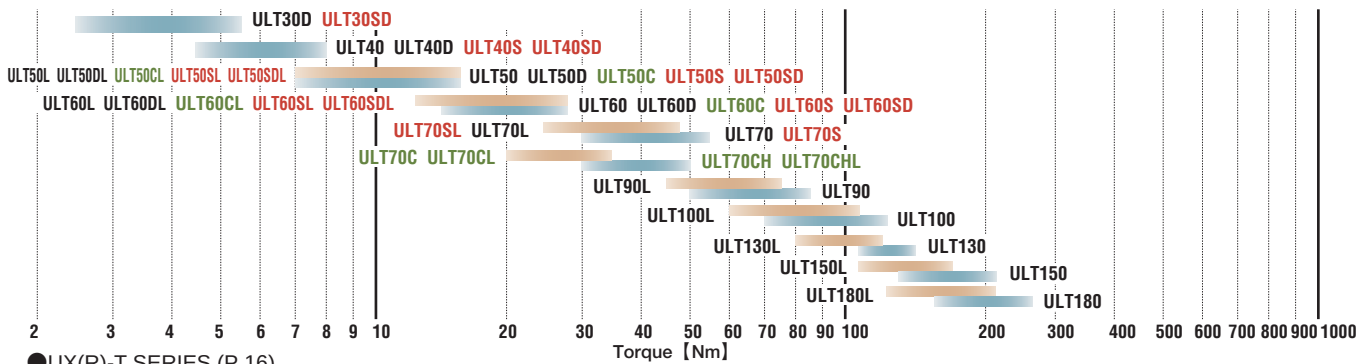
●U·UX·UXR SERIES (P.17~19)



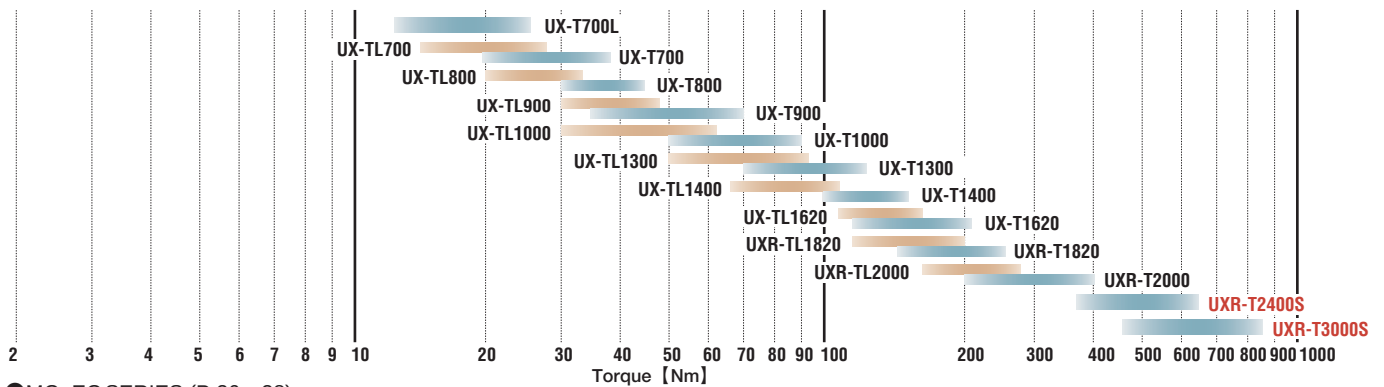
TORQUE CHART FOR OIL-PULSE WRENCHES

TORQUE-CONTROL TYPE

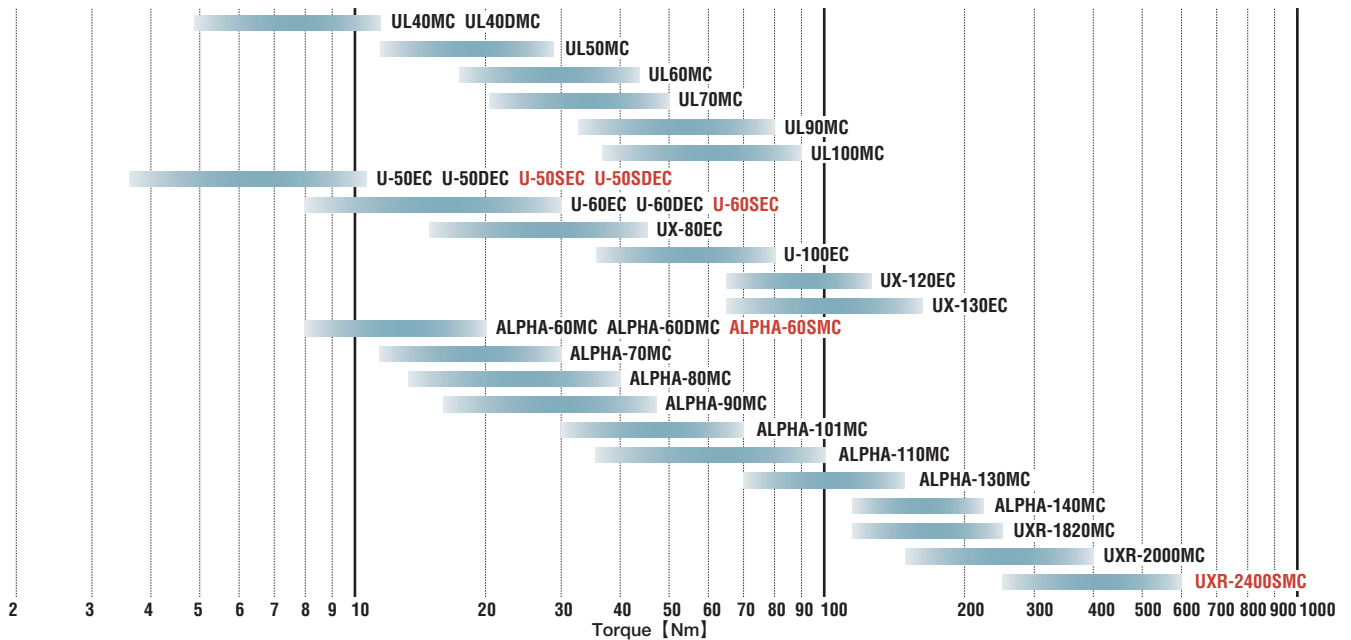
●ULT SERIES (P.9~10)



●UX(R)-T SERIES (P.16)

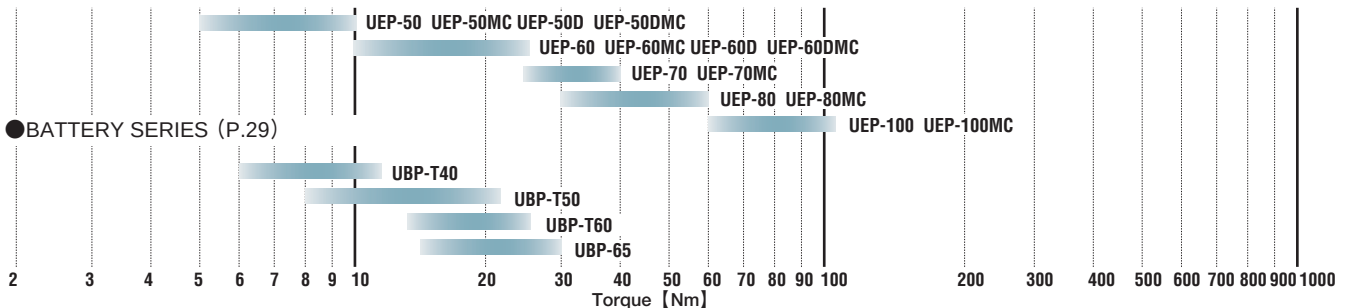


●MC·EC SERIES (P.26~28)

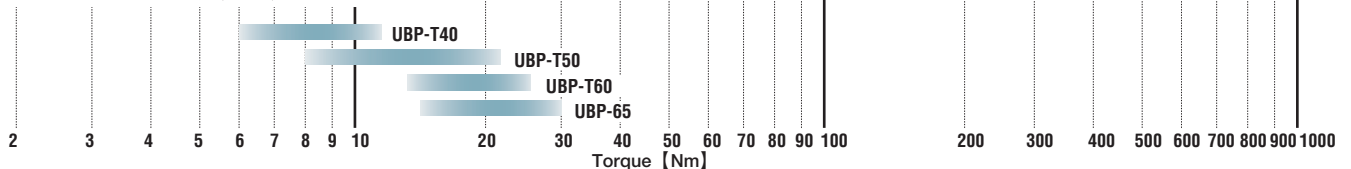


ELECTRIC TYPE

●ELECTRIC SERIES (P.24~25)

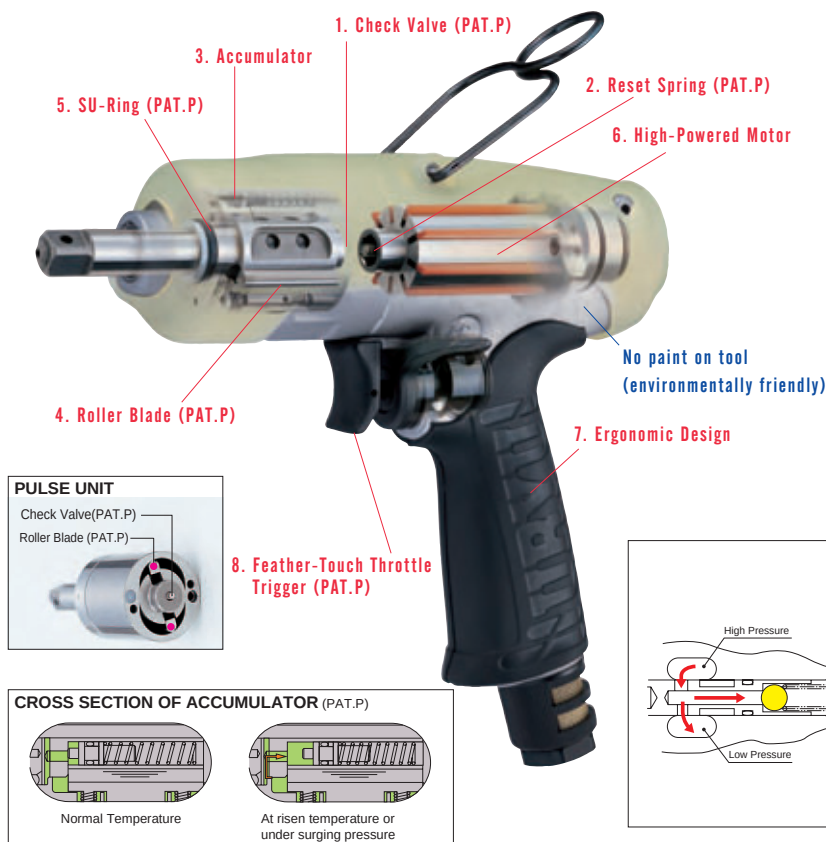


●BATTERY SERIES (P.29)

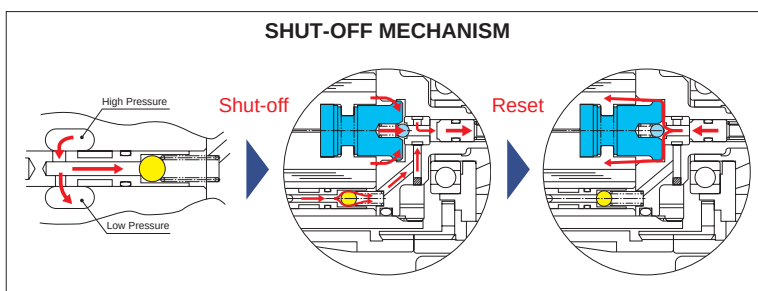
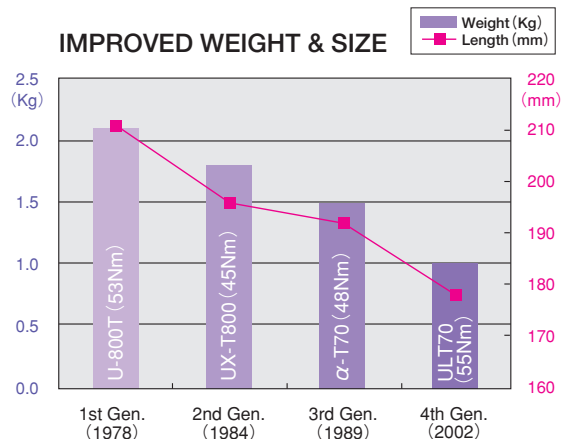


ULT ULTIMATE SERIES OIL-PULSE TOOLS (SHUT-OFF TYPE)

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.



IMPROVED WEIGHT & SIZE



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.P) 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)(PAT.P) 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.P) 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.P) 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 ULTIMATE SERIES OIL-PULSE TOOLS (SHUT-OFF TYPE)

PISTOL 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		Noise Level
			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	m³/min	ft³/min	dB(A)
ULT30D	4-5	5/32-13/34	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	74
ULT40	5	13/64	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	75
ULT40D	5	13/64	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	75
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	78
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	78
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	80
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	80
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	80
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	82
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	82
ULT130	14	9/16	-	-	110-150	81.4-111.0	-	4000	215	8 15/32	2.30	5.1	32.0	1 17/64	12.7	1/2	0.73	25.6	82
ULT150	16	5/8	-	-	140-210	103.6-155.4	-	3700	238	9 29/64	2.90	6.4	36.0	1 27/64	19.0	3/4	0.70	24.5	82
ULT180	16-18	5/8-45/64	-	-	170-260	125.8-192.4	-	3300	262	10 23/64	3.70	8.1	39.0	1 37/64	19.0	3/4	0.70	24.5	82
ULT200	-	-	-	-	280-400	207.2-296.0	-	-	-	-	4.50	9.9	-	-	-	-	UNDER DEVELOPMENT		
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	75
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	75
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	77
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	77
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	78
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	79
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	79
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	79
ULT150L	14-16	9/16-5/8	110-170	81.4-125.8	-	-	3500	-	238	9 29/64	2.90	6.4	36.0	1 27/64	19.0	3/4	0.50	17.5	79
ULT180L	14-16	9/16-5/8	130-210	96.2-155.4	-	-	3000	-	262	10 23/64	3.70	8.1	39.0	1 37/64	19.0	3/4	0.50	17.5	80

Air Inlet Size : NPT1/4"

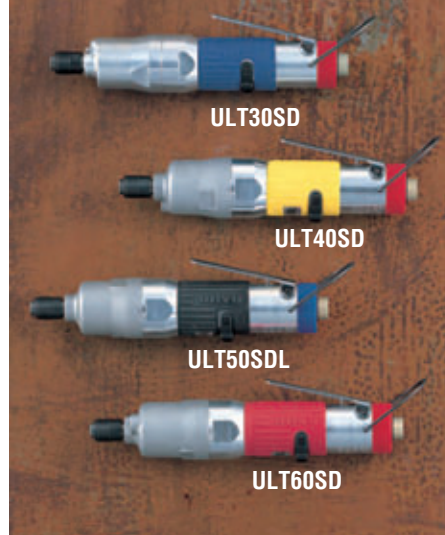
Air Hose Size : 10mm×6.5mm×5m for ULT30-50(L) 12mm×8.0mm×5m for ULT60(L)-100 16mm×11.0mm×5m for ULT100L-150(L)

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

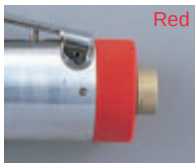
STRAIGHT SQ. DRIVE TYPE



STRAIGHT HEX. SIZE TYPE



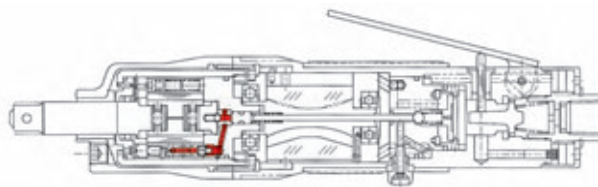
ANGLE TYPE



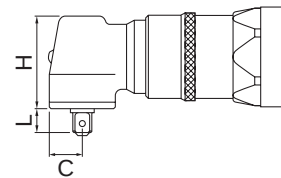
(Standard Type)



(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		Noise Level
			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	m³/min	ft³/min	
ULT30SD	4-5	5/32-13/34	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	66
ULT40S	5	13/64	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	70
ULT40SD	5	13/64	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	70
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	78
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	78
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	80
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	80
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	80
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	75
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	75
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	77
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	77
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	78
ULT50C	6-8	1/4-5/16	-	-	7.0-15.5	5.2-11.5	-	4800	250	9 27/32	1.35	3.0	24.5	31/32	9.5	3/8	0.25	8.6	78
ULT60C	8	5/16	-	-	13-28	9.6-20.7	-	5500	261	10 9/32	1.45	3.2	24.5	31/32	9.5	3/8	0.30	10.5	80
ULT70C	8	5/16	-	-	20-35	14.8-25.9	-	4600	275	10 53/64	1.65	3.6	26.5	1 3/64	9.5	3/8	0.35	12.3	82
ULT70CH	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	0.35	12.3	82
ULT50CL	6-8	1/4-5/16	7.0-15.5	5.2-11.5	-	-	4400	-	250	9 27/32	1.35	3.0	24.5	31/32	9.5	3/8	0.20	7.0	75
ULT60CL	8	5/16	13-28	9.6-20.7	-	-	5000	-	261	10 9/32	1.45	3.2	24.5	31/32	9.5	3/8	0.25	8.6	78
ULT70CL	8	5/16	20-35	14.8-25.9	-	-	4200	-	275	10 53/64	1.65	3.6	26.5	1 3/64	9.5	3/8	0.27	9.5	78
ULT70CHL	8-10	5/16-3/8	30-50	22.2-37.0	-	-	2100	-	290	11 27/64	1.85	4.1	26.5	1 3/64	12.7	1/2	0.27	9.5	78

Air Inlet Size : NPT 1/4"

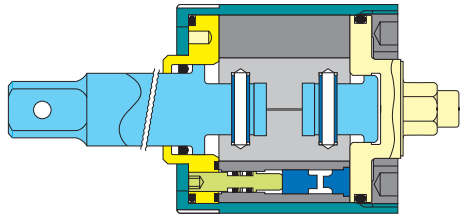
Air Hose Size : 10mm×6.5mm×5m for ULT30S~50S 12mm×8.0mm×5m for ULT60S~70S

UL SERIES OIL-PULSE TOOLS

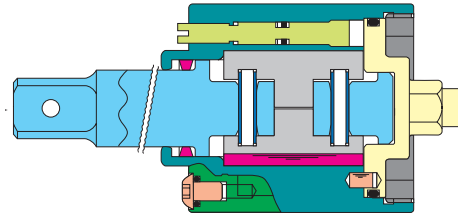
UL series has the same features as ULT series, such as intensified sealing and roller blade. Furthermore, the oil pulse unit is the "one-piece construction", in which liner casing, liner and front liner plate are all in one piece, to reduce the weight.

Pulse Unit

CONVENTIONAL

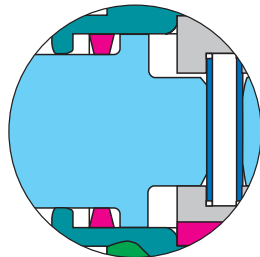


NEW



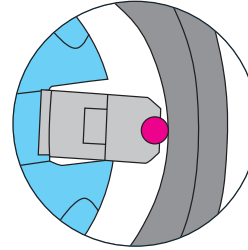
One-Piece-Component Pulse Unit

New Sealing PAT.P



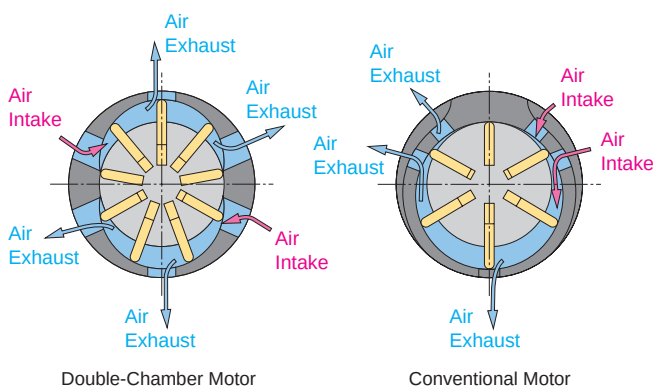
As a measure of the new sealing, a partition on the anvil and SU-Ring (PAT.P) are adopted. The partition walls off the direct high pressure from the liner front plate. And SU-Ring intensifies the gripping area of the liner front plate to avoid its rotation together with the anvil. It brings you a long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

Roller Blade PAT.P

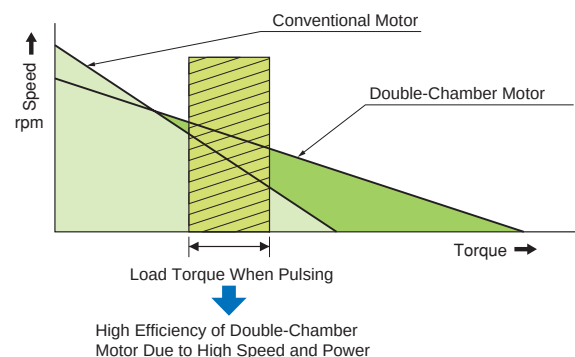


Newly adopted Roller Blades (Driving Blade with Roller Pin) (PAT.P) reduce the friction inside the pulse unit and improve the energy efficiency. Roller Blades also reduce the frictional wear of driving blades, which helps you to save the maintenance cost of driving blades.

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.

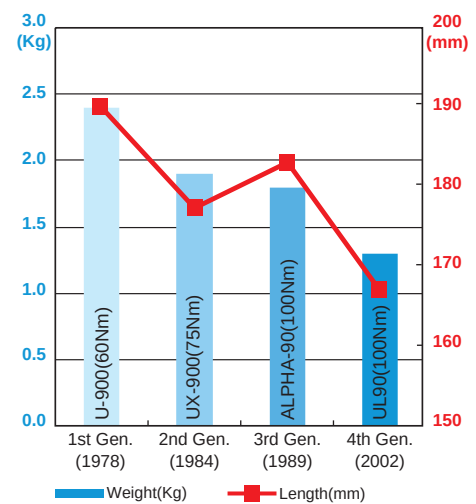
Bolt seating is performed very smoothly, and the torque spike caused by the spinning of the anvil is eliminated to the minimum level on the hard joint. Prevailing torque type joint is also overcome with the optimum cycle time by the effective motor power.

UL SERIES OIL-PULSE TOOLS

PISTOL TYPE



IMPROVED WEIGHT & SIZE



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		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	
UL30	5	13/64	5.5-10.5	4.1-7.8	6-12	4.4-8.9	5400	5700	131	5 5/32	0.70	1.5	20.5	13/16	9.5	3/8	0.20	7.0	75
UL30(TM)	5	13/64	5.5-10.5	4.1-7.8	6-12	4.4-8.9	5400	5700	131	5 5/32	0.70	1.5	20.5	13/16	9.5	3/8	0.20	7.0	75
UL30D	5	13/64	5.5-10.5	4.1-7.8	6-12	4.4-8.9	5400	5700	135	5 5/16	0.70	1.5	20.5	13/16	6.35	1/4	0.20	7.0	75
UL30D(TM)	5	13/64	5.5-10.5	4.1-7.8	6-12	4.4-8.9	5400	5700	135	5 5/16	0.70	1.5	20.5	13/16	6.35	1/4	0.20	7.0	75
UL40	5-6	13/64-1/4	11-20	8.1-14.8	13-22	9.6-16.3	5800	6100	131	5 5/32	0.70	1.5	20.5	13/16	9.5	3/8	0.20	7.0	75
UL40(TM)	5-6	13/64-1/4	11-20	8.1-14.8	13-22	9.6-16.3	5800	6100	131	5 5/32	0.70	1.5	20.5	13/16	9.5	3/8	0.20	7.0	75
UL40D	5-6	13/64-1/4	9-17	6.7-12.6	11-20	8.1-14.8	5800	6100	135	5 5/16	0.70	1.5	20.5	13/16	6.35	1/4	0.20	7.0	75
UL40D(TM)	5-6	13/64-1/4	9-17	6.7-12.6	11-20	8.1-14.8	5800	6100	135	5 5/16	0.70	1.5	20.5	13/16	6.35	1/4	0.20	7.0	75
UL50	6-8	1/4-5/16	20-32	14.8-23.7	22-35	16.3-25.9	6100	6400	139	5 25/64	0.77	1.7	22.0	55/64	9.5	3/8	0.30	10.5	78
UL50(TM)	6-8	1/4-5/16	20-32	14.8-23.7	22-35	16.3-25.9	6100	6400	139	5 25/64	0.77	1.7	22.0	55/64	9.5	3/8	0.30	10.5	78
UL50D	6-8	1/4-5/16	16-25	11.8-18.5	18-28	13.3-20.7	6100	6400	144	5 43/64	0.77	1.7	22.0	55/64	6.35	1/4	0.30	10.5	78
UL50D(TM)	6-8	1/4-5/16	16-25	11.8-18.5	18-28	13.3-20.7	6100	6400	144	5 43/64	0.77	1.7	22.0	55/64	6.35	1/4	0.30	10.5	78
UL60	8	5/16	30-45	22.2-33.3	32-50	23.7-37.0	6700	7000	139	5 25/64	0.82	1.8	22.0	55/64	9.5	3/8	0.40	14.0	80
UL60(TM)	8	5/16	30-45	22.2-33.3	32-50	23.7-37.0	6700	7000	139	5 25/64	0.82	1.8	22.0	55/64	9.5	3/8	0.40	14.0	80
UL60D	8	5/16	20-32	14.8-23.7	22-35	16.3-25.9	6700	7000	142	5 19/32	0.82	1.8	22.0	55/64	6.35	1/4	0.40	14.0	80
UL60D(TM)	8	5/16	20-32	14.8-23.7	22-35	16.3-25.9	6700	7000	142	5 19/32	0.82	1.8	22.0	55/64	6.35	1/4	0.40	14.0	80
UL70	8-10	5/16-3/8	36-60	26.6-44.4	40-65	29.6-48.1	5400	5700	151	5 55/64	0.95	2.1	23.0	29/32	9.5	3/8	0.45	15.8	80
UL70(TM)	8-10	5/16-3/8	36-60	26.6-44.4	40-65	29.6-48.1	5400	5700	151	5 55/64	0.95	2.1	23.0	29/32	9.5	3/8	0.45	15.8	80
UL90	10-12	3/8-1/2	55-90	40.7-66.6	60-100	44.4-74.0	5700	6000	168	6 39/64	1.30	2.9	27.0	1 1/16	12.7	1/2	0.53	18.6	82
UL90(TM)	10-12	3/8-1/2	55-90	40.7-66.6	60-100	44.4-74.0	5700	6000	168	6 39/64	1.30	2.9	27.0	1 1/16	12.7	1/2	0.53	18.6	82
UL100	12	1/2	72-120	53.3-88.8	80-130	59.2-96.2	5100	5400	175	6 57/64	1.66	3.7	29.5	1 5/32	12.7	1/2	0.58	20.3	80
UL100(TM)	12	1/2	72-120	53.3-88.8	80-130	59.2-96.2	5100	5400	175	6 57/64	1.66	3.7	29.5	1 5/32	12.7	1/2	0.58	20.3	80

Air Inlet Size : NPT1/4"

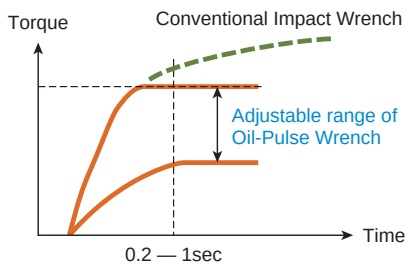
Air Hose Size : 10mm×6.5mm×5m for UL30-50 12mm×8.0mm×5m for UL60-100

UL SERIES OIL-PULSE TOOLS

STRAIGHT SQ. DRIVE TYPE



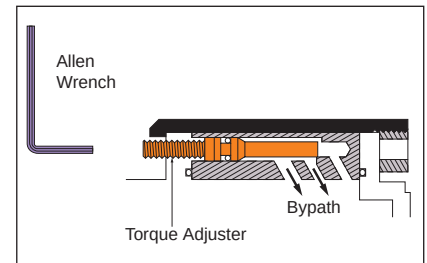
STRAIGHT HEX. SIZE TYPE



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.

- ① Turn clockwise
Increase torque, decrease number of blows
- ② 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.

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		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	
UL30S	5	13/64	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	72
UL30S(TM)	5	13/64	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	72
UL30SD	5	13/64	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	75
UL30SD(TM)	5	13/64	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	75
UL40S	5-6	13/64-1/4	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	72
UL40S(TM)	5-6	13/64-1/4	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	72
UL40SD	5-6	13/64-1/4	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	75
UL40SD(TM)	5-6	13/64-1/4	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	75
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	19.3	78
UL50S(TM)	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	19.3	78
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	19.3	78
UL50SD(TM)	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	19.3	78
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	80
UL60S(TM)	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	80
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	80
UL60SD(TM)	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	80
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	0.4	14	84
UL70S(TM)	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	0.4	14	84

Air Inlet Size : NPT1/4"

Air Hose Size : 10mm×6.5mm×5m for UL30S-50S 12mm×8.0mm×5m for UL60S-70S

ALPHA SERIES OIL-PULSE TOOLS

PISTOL TYPE



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)

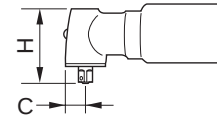
Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length Less Socket or Bit (Approx.)		Weight less Socket or Bit (Approx.)		From Center to Outside (Approx.)		Sq. Drive or Hex. Size		Average Air Consumption		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	dB(A)
ALPHA-130	14	9/16	90-145	65.8-106.3	100-160	73.0-117.8	3250	3400	209	8 15/64	2.65	5.8	36.0	1 13/32	12.7	1/2	0.65	22.9	82
ALPHA-140	16	5/8	135-210	99.0-154.7	150-230	109.9-169.2	2900	3100	226	8 57/64	3.35	7.4	40.0	1 37/64	19.0	3/4	0.70	24.7	84
ALPHA-160	18	45/64	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	84
ALPHA-180	18-20	45/64-25/32	250-320	183.8-235.3	270-350	198.5-257.4	3300	3500	250	9 27/64	4.70	10.3	42.0	1 21/32	19.0	3/4	0.95	33.6	84

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

ANGLE TYPE



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		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	dB(A)
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	82
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	82

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 rather than durability.

PISTOL TYPE



ANGLE TYPE



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		Noise Level
			0.5MPa		0.6MPa													
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	m³/min	ft³/min	dB(A)
UL60(20042T8)	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	80
UL60(20042T7)	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	80
UL60S(063T6)	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	80
UL60S(063T8)	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	80

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

OIL-PULSE TOOLS

It is the greatest feature of **UX, ALPHA & UL series** that 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

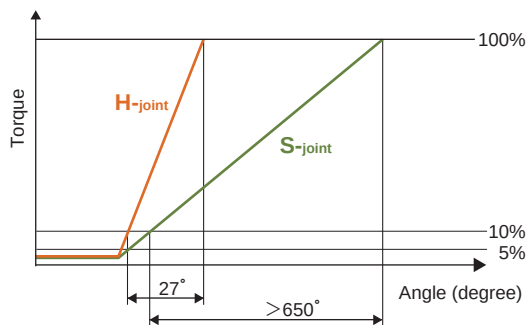
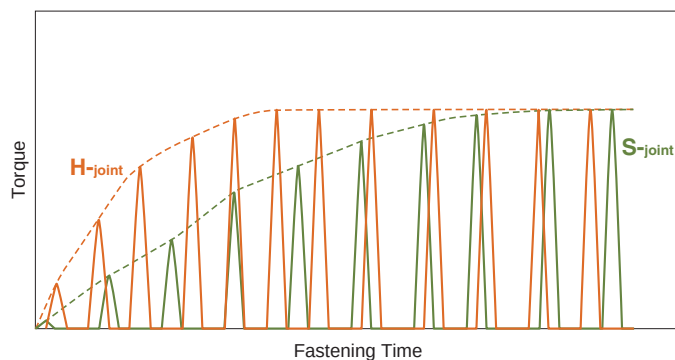
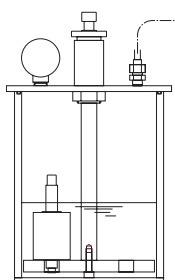
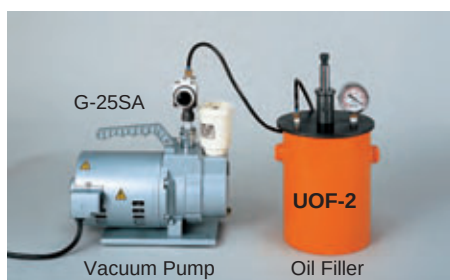


Fig. 2 Fastening with Oil-Pulse Tool (H-S Joint)

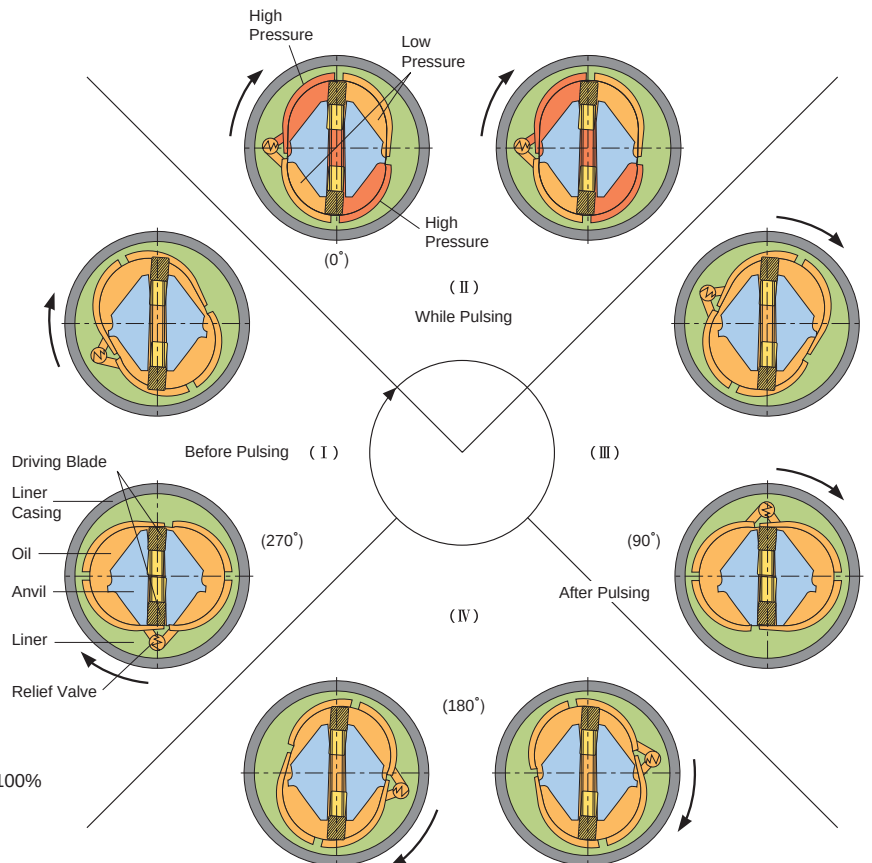


As shown above Fig. 2, torque output curve of the hard joint and soft joint is different when the same torque setting against same tool is applied. (Difference of torque raise up speed and time to reach the target torque.)



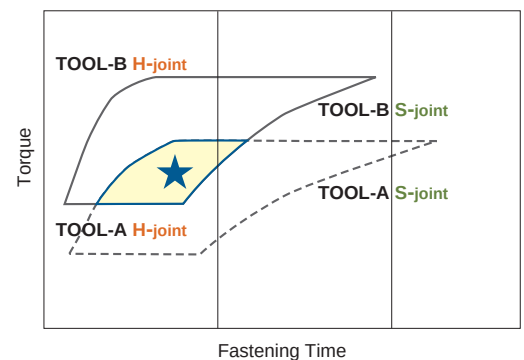
OIL FILLER

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.



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



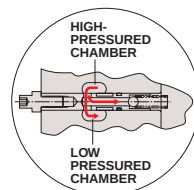
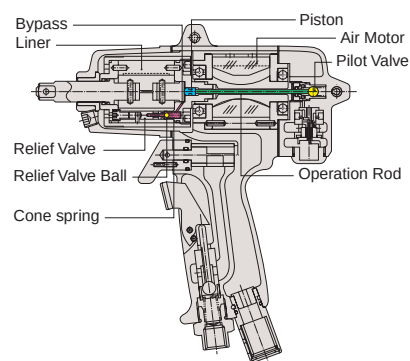
When selecting the tool against the target torque of ★ as shown Fig. 3, pay attention to the operating conditions (tool weight, fastening time), required torque accuracy, torque adjusting position of tools and select the most suitable model.

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		Noise Level
	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	72
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	72
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	75
UX-T900	8-10	5/16-3/8	35-70	25-50	6800	7000	202	7 15/16	2.00	4.40	30.0	1 3/16	12.7	1/2	0.45	16.0	75
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	75
UX-T1300	12-14	1/2-35/64	70-130	50-94	6000	6200	225	8 57/64	2.80	6.16	36.0	1 27/64	12.7	1/2	0.55	19.4	77
UX-T1400	14	35/64	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	79
UX-T1620	14-16	35/64-5/8	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	82
UXR-T1820	16-18	5/8-45/64	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	84
UXR-T2000	18-20	45/64-25/32	200-400	150-290	3800	4000	303	11 15/16	6.80	14.96	47.0	1 27/32	19.0	3/4	0.95	34.0	85
UXR-T2400S	24	61/64	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	85
UXR-T3000S	30	1-3/16	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	85

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		Noise Level
	mm	in	Nm	ft-lbs	0.5MPa	0.6MPa	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	72
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	75
UX-TL900	8-10	5/16-3/8	30-48	22-34.7	7000	7200	202	7 15/16	2.00	4.40	30.0	1 3/16	12.7	1/2	0.30	10.5	75
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	75
UX-TL1300	10-12	3/8-1/2	50-95	36-70	5700	6000	225	8 57/64	2.80	6.16	36.0	1 27/64	12.7	1/2	0.40	14.1	77
UX-TL1400	12-14	1/2-35/64	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	79
UX-TL1620	14	35/64	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	82
UXR-TL1820	14-16	35/64-5/8	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	84
UXR-TL2000	16-18	5/8-45/64	170-280	123-206	3900	4100	303	11 15/16	6.80	14.96	47.0	1 27/32	19.0	3/4	0.70	24.7	85

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

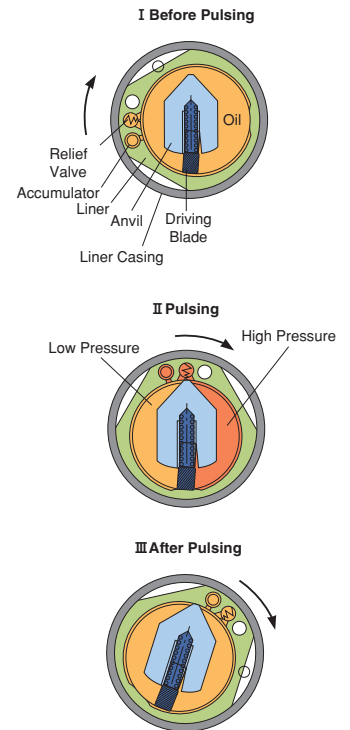
PISTOL TYPE



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		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	
U-350D	3-4	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	74
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	7	1.00	2.2	22.0	7/8	9.5	3/8	0.15	5.3	70
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	70
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	65
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	65
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	70
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	70
UX-612	6-8	1/4-5/16	17-30	12.5-22.1	20-35	15-25	9000	9300	160	6 5/16	0.95	2.1	22.5	7/8	9.5	3/8	0.32	11.2	75
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	75
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	72
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	72
UX-800	8-10	5/16-3/8	30-51	22.1-37.6	35-60	25-45	8500	9000	175	6 7/8	1.70	3.7	28.0	1 7/64	9.5	3/8	0.40	14.1	75
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	75
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	75
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	77
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	79
UX-1620	14-16	9/16-5/8	100-160	73.8-118.1	120-190	90-140	4700	5000	241	9 1/2	3.60	7.9	40.0	1 37/64	19.0	3/4	0.65	22.9	82
UXR-1820	16-18	5/8-45/64	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	84
UXR-2000	18-20	45/64-25/32	255-385	188.2-284.1	300-450	220-330	4000	4200	282	11 3/32	6.50	14.3	47.0	1 27/32	19.0	3/4	0.90	31.5	85

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

U-310SD



UX-450S



U-410S



UX-612S



UX-900S

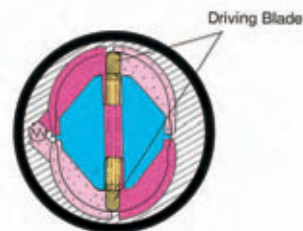


UXR-2400S (OUT)

UX
Series

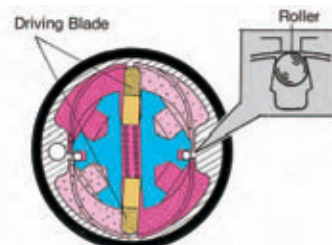
Torque Range : 9~190 Nm
6.5~140 ft-lbs

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

Torque Range : 160~800 Nm
120~580 ft-lbs

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		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	
U-310SD	3-4	No.8	2.1-2.6	1.6-1.9	2.5-3.1	1.8-2.2	10000	11000	222	8 45/64	0.62	1.5	18.0	47/64	6.35	1/4	0.15	5.3	74
U-350SD	3-4	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	74
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 27/32	0.80	1.8	22.0	7/8	9.5	3/8	0.15	5.3	70
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 11/64	0.80	1.8	22.0	7/8	6.35	1/4	0.15	5.3	70
UX-450S	5	No.10	7.7-13	5.7-9.6	9-15	6.5-11	9000	9500	234	9 3/16	0.80	1.8	22.0	7/8	9.5	3/8	0.20	7.0	67
UX-450SD	5	No.10	6.8-12	5.0-8.8	8-14	5.8-10	9000	9500	239	9 11/64	0.80	1.8	22.0	7/8	6.35	1/4	0.20	7.0	67
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	70
UX-500SD	5-6	No.10-1/4	11-17	8.1-12.5	13-20	10-15	9000	9300	244	9 39/64	0.92	2.0	22.0	7/8	6.35	1/4	0.25	8.8	70
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	75
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	75
UX-700S	8	5/16	21-38	15.5-28	25-45	20-35	8700	9000	244	9 39/64	1.27	2.8	26.5	1 3/64	9.5	3/8	0.35	12.3	78
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	78
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	75
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	75
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	75
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	77
UXR-2000S	18-20	45/64-25/32	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	85
UXR-2400S	24	15/16	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	85
UXR-3000S	30	1-3/16	425-725	313-535	500-850	360-630	4200	4400	455	16 37/64	13.30	29.3	62.0	2 1/8	25.4	1	1.05	37.1	85

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

NPT1/2" for UXR-2400S~UXR-3000S

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

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

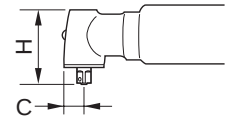
12.7mm (1/2") for UXR-2000S~UXR-3000S

UX SERIES OIL-PULSE TOOLS

ANGLE TYPE



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)

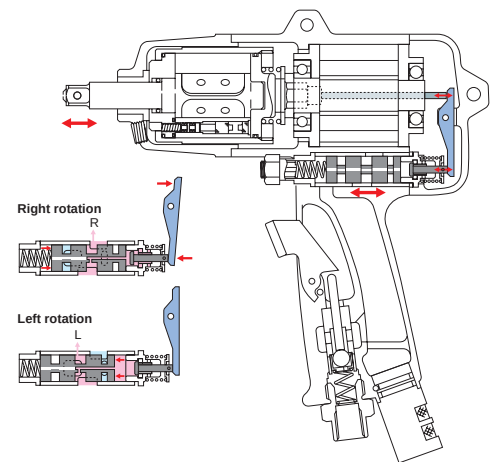
Model	Capacity (Nominal Bolt Size)		Torque Range				Free Speed (Approx.) rpm		Overall Length (about)		Weight less Socket or Bit (about)		Angle Height (about)		Sq. Drive or Hex. Size		Average Air Consumption		Noise Level
			0.4MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/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	82
UX-612C	6	1/4	13.5-24	9.9-17.7	16-28	12.0-20.0	9300	9800	283	11 5/32	1.38	3.0	59.5	2 11/32	9.5	3/8	0.32	11.2	85
UX-700C	8	5/16	17-31	12.5-22.8	20-36	16.0-28.0	9000	9500	273	10 13/18	1.67	3.7	62.0	2 7/16	9.5	3/8	0.35	12.3	85
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	86
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	90
UX-1000C	10-12	3/8-1/2	43-68	31.7-50.1	50-80	40.0-58.0	6600	6800	365	14 23/64	3.05	6.8	80.0	2 5/32	12.7	1/2	0.51	17.9	90
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	85

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

PISTOL TYPE



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		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/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	75
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	75

Air Inlet Size: NPT1/4"

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

SUPER "INTELEC" SYSTEM UEC-4800 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 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

Features

- 1) Programming is easy on front touch panel. You can also upload your programme from PC.
- 2) UEC-4800 can be used with a various types of transducerized tool.
 - a. Oil-Pulse Tools fitted with a 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, 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 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 memorizes cumulative fastening numbers and pulse numbers from the start of operation.
- 6) UEC-4800 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 to PC, you can graph the statistical data.
- 7) By using Input / Output terminals UEC-4800 can be interlocked with the production line.

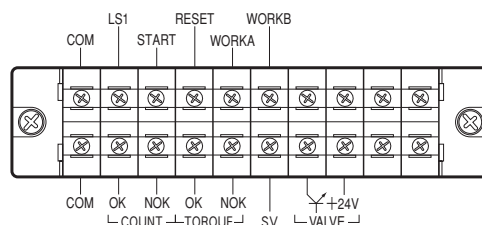


UEC-4800TPA/E SPECIFICATIONS

POWER SUPPLY	AC100~240V $\pm 10\%$
POWER FREQUENCY	50/60 Hz
NOISE PROTECTION	1000V 1 μ S (according to noise simulator)
INSULATION PROTECTION	DC500V over 10M Ω
AMBIENT TEMPERATURE	0~50°C (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 Panel 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 5 terminals (free format), VALVE
OUTPUT TERMINAL SIGNAL	Contact Capacity : AC:125V, 0.3A, DC:30V, 1A 5 terminals (free format), VALVE

(Input Terminal Block)

COM:Common for Input terminals
LS1:Input signals for line control
START:External Start signal
RESET:Cancel NG judgment
WORK A:Work number select
WORK B:Work number select



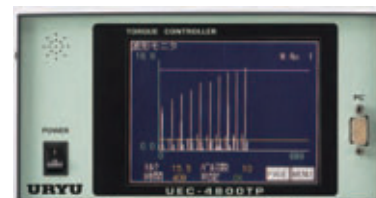
(Output Terminal Block)

COM:Common for Output terminals
COUNT OK:Signal lasts till timer is over.
COUNT NOK:Signal lasts till NOK is reset.
TORQUE OK:Signal lasts while timer 4 is on.
TORQUE NOK:Signal lasts till NOK is reset.
SV:Two-speed control Valve
VALVE:Valve Output
VALVE COM:+24V

Torque Monitor Display



Torque Wave Monitor Display



SUPER "INTELEC" SYSTEM UEC-4800 SERIES CONTROLLER

◆ UEC-4800A/E

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 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.

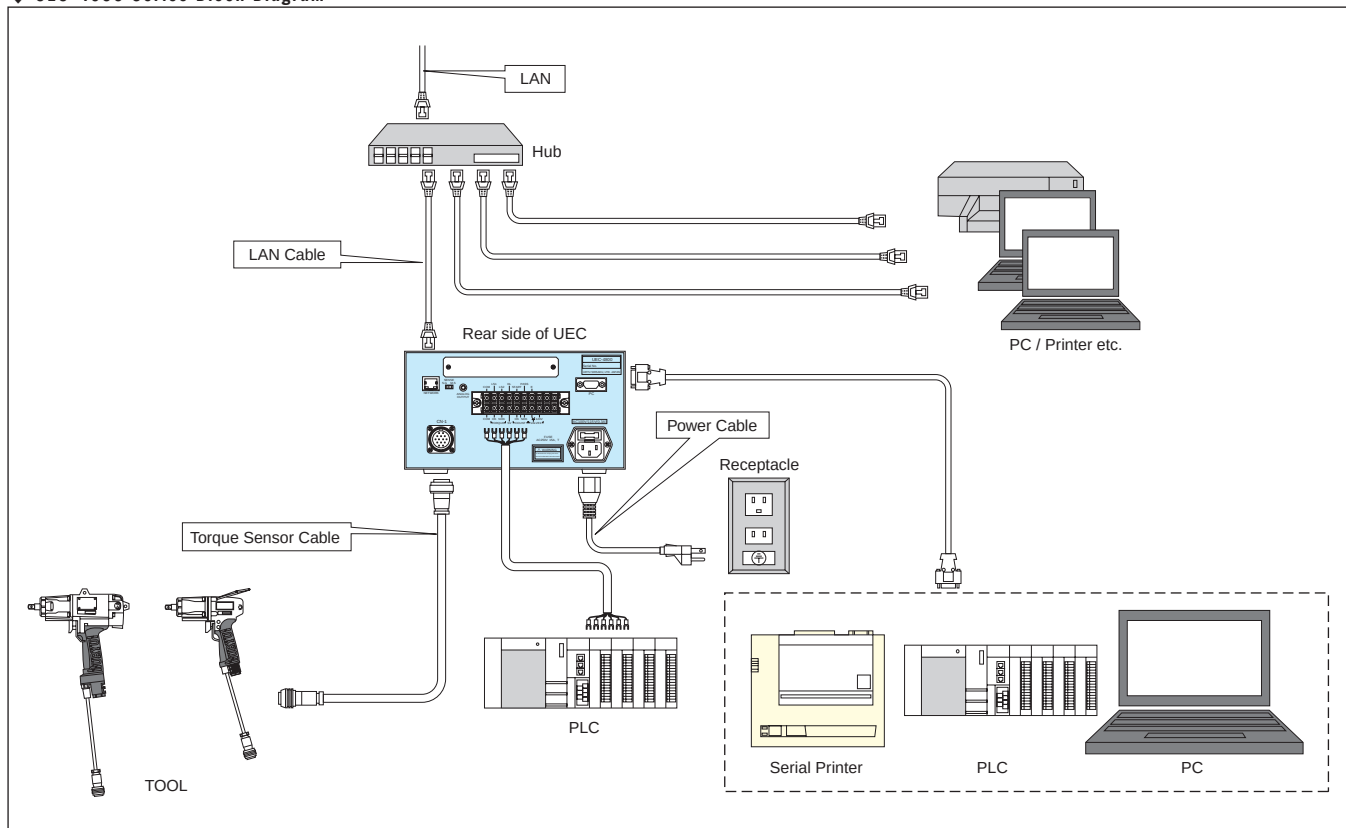
※Other features and functions are the same as UEC-4800TP's.



UEC-4800A/E SPECIFICATIONS

POWER SUPPLY	AC100~240V $\pm 10\%$	DISPLAY	Torque Resolution ± 2048 (12Bit A/D)
POWER FREQUENCY	50/60 Hz		LCD : 20 characters x 4 lines
NOISE PROTECTION	1000V 1 μ S (according to noise simulator)		Contents : WORK NO. / FASTENING COUNT
INSULATION PROTECTION	DC500V over 10M Ω		DOWN NO. / FASTENING TIME / PULSE NO.
AMBIENT TEMPERATURE	0~50°C (non-freezing)	LED	1-digit digital display (DPM) : WORK NO.
AMBIENT HUMIDITY	Under 90%RH (no dew)		4-digit digital display (DPM) : TORQUE
POWER CONSUMPTION	Approx. 30VA		COUNT Lamp : OK (Green) / NOK (Red)
WEIGHT	Approx. 3.6 kg		TORQUE Lamp : LOW (Yellow) / OK (Green) / HIGH (RED)
DIMENSIONS	265(D) x 222(W) x 120(H)	INPUT TERMINAL SIGNAL	Operation Voltage/Current : DC24V/aprox. 10mA
MAIN FUNCTIONS	Torque Monitoring / Control + Fastening Counter		5 terminals (free format), VALVE
PARAMETER SETUP	Manual Input on Front LCD Panel	OUTPUT TERMINAL SIGNAL	Contact Capacity : AC:125V, 0.3A, DC:30V, 1A
	Personal Computer (with setup software)		5 terminals (free format), VALVE

◆ UEC-4800 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

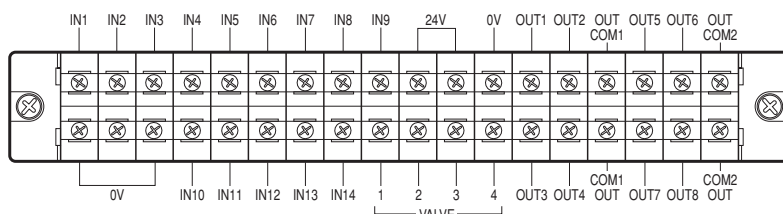
- 1) You can choose between Torque Control and Monitor.
You can detect various errors and control the job with fastening counter.
- 2) You can see 'Torque Wave Data' on PC.
- 3) UEC-5500 can be used for 8 different fastening applications.
- 4) Front panel, PC display or buzzer will tell you Input / Output (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 $\pm 10\%$
POWER FREQUENCY	50 / 60 Hz
NOISE PROTECTION	1000V 1 μ S (according to noise simulator)
INSULATION PROTECTION	DC500V over 10M Ω
AMBIENT TEMPERATURE	0~50°C (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. 1-digit digital display (large) x 4 : SPINDLE NO.
LED	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 : 4.7K Ω
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 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 1 μ S (depending on a noise simulator)
INSULATION PROTECTION	DC500V over 10M Ω
AMBIENT TEMPERATURE	0 - 50°C
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

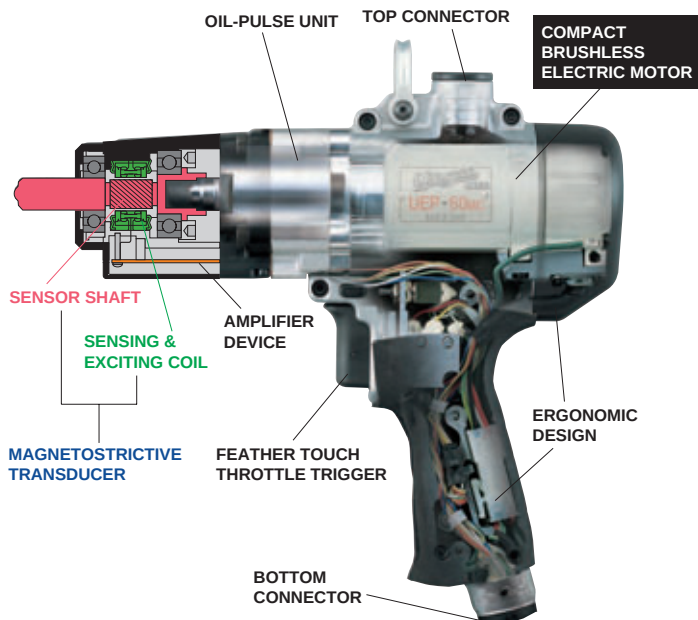
POWER SUPPLY	UECD-4800A: AC 115V UECD-4800E: AC 230V
POWER FREQUENCY	50 / 60 Hz
NOISE PROTECTION	1000V 1 μ S (depending on a noise simulator)
INSULATION PROTECTION	DC500V over 10M Ω
AMBIENT TEMPERATURE	0 - 50°C
AMBIENT HUMIDITY	less than 90 % (non condensing)
POWER CONSUMPTION	Approx. 50 - 400VA
WEIGHT	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 Page-20 for UEC-4800TP and Page-21 for UEC-4800 for features and functions of controller.

SUPER "INTELEC" SYSTEM ELECTRIC TOOLS

The newly developed "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.

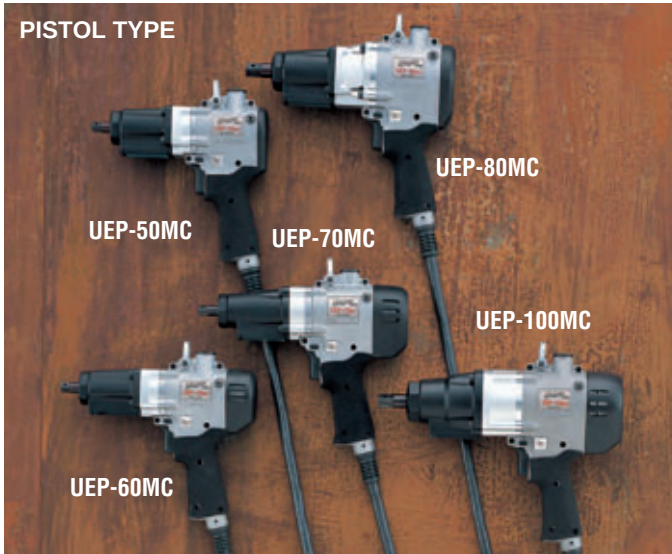
Model	Driver / Controller Model	Weight (approx.)	Voltage	Rated Power
UEP-50MC	UECD-4800TPA/E-50	10kg (22.0lb)	115V/230V	4.2A
UEP-60MC	UECD-4800TPA/E-60	10kg (22.0lb)	115V/230V	5.0A
UEP-70/80MC	UECD-4800TPA/E-70	10kg (22.0lb)	115V/230V	5.6A
UEP-100MC	UECD-4800TPA/E-100	12kg (26.4lb)	115V/230V	9.7A
UEP-50MC	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°C - 50°C Operation Humidity : Less than 85%RH (No Dew)
UEP-MC tools can run in conjunction with this driver box and UEC-4800 series.

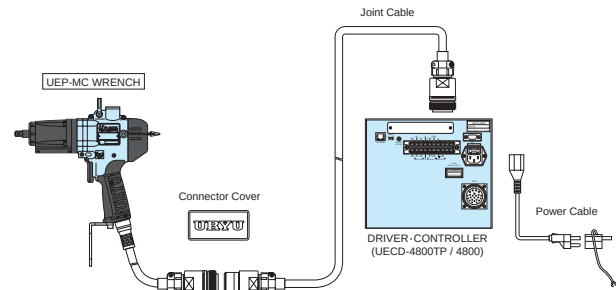
SUPER "INTELEC" SYSTEM ELECTRIC TOOLS

PISTOL TYPE



Function of UEP-MC tools

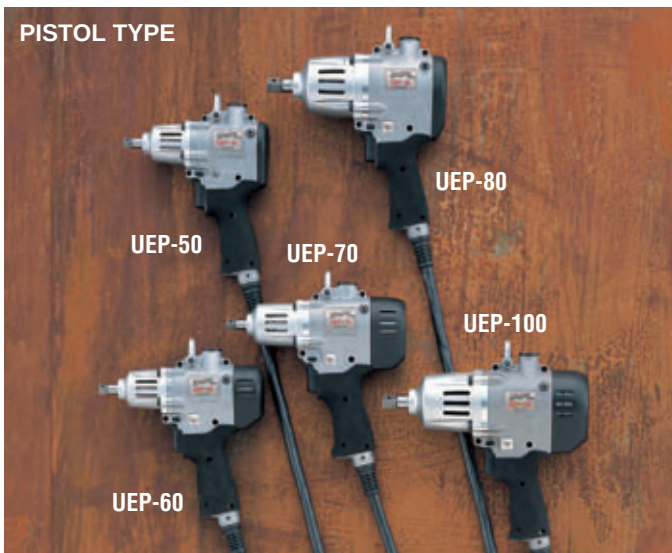
- The Uryu unique non-contact and Magnetostrictive transducer incorporated into UEP-MC tools provides you with the tightening and fastening counter monitoring controlled by high-accurate torque control /mechanism, being connected to our multi-functional controller UECD-4800 series (combination unit of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



SPECIFICATIONS (UEP-MC TORQUE CONTROL)

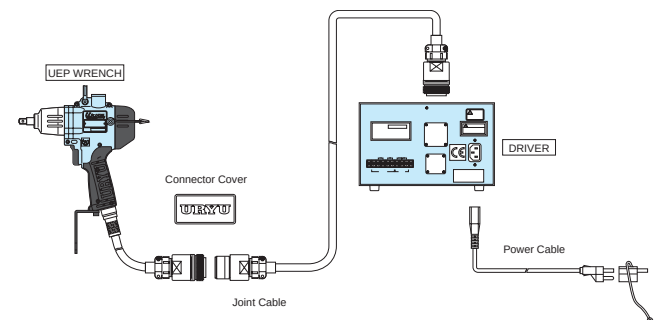
Model	Capacity (Nominal Bolt Size)		Torque range		Free Speed (Approx.) rpm	Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Noise Level dB(A)
	mm	in	Nm	ft-lbs		mm	in	kg	lb	mm	in	mm	in	
UEP-50MC	5	No. 10	5-10	3.7-7.4	2000	200.0	7 7/8	1.83	4.03	25	63/64	9.5	3/8	70.0
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	70.0
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	70.0
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	70.0
UEP-70MC	8	5/16	25-40	18.5-29.6	2000	238.0	8 3/8	2.38	5.24	31	1 7/32	9.5	3/8	72.0
UEP-80MC	8-10	5/16-3/8	30-60	22.2-44.4	2000	237.5	8 23/64	3.01	6.62	36.5	1 7/16	12.7	1/2	75.0
UEP-100MC	10-12	3/8-1/2	60-120	44.4-88.8	2000	276.0	9 55/64	4.16	9.15	36.5	1 7/16	12.7	1/2	75.0

PISTOL TYPE



Function of UEP tools

- UEP tools provide you with an accurate timer control 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.) rpm	Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Noise Level dB(A)
	mm	in	Nm	ft-lbs		mm	in	kg	lb	mm	in	mm	in	
UEP-50	5	No. 10	5-10	3.7-7.4	2000	166.0	6 35/64	1.43	3.15	25	63/64	9.5	3/8	70.0
UEP-50D	5	No. 10	5-10	3.7-7.4	2000	171.0	6 49/64	1.43	3.15	25	63/64	6.35	1/4	70.0
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	70.0
UEP-60D	6	1/4	10-25	7.4-18.5	2000	193.0	7 39/64	1.76	3.87	25	63/64	6.35	1/4	70.0
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	72.0
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	75.0
UEP-100	10-12	3/8-1/2	60-120	44.4-88.8	2000	233.5	8 13/64	3.66	8.05	36.5	1 7/16	12.7	1/2	75.0

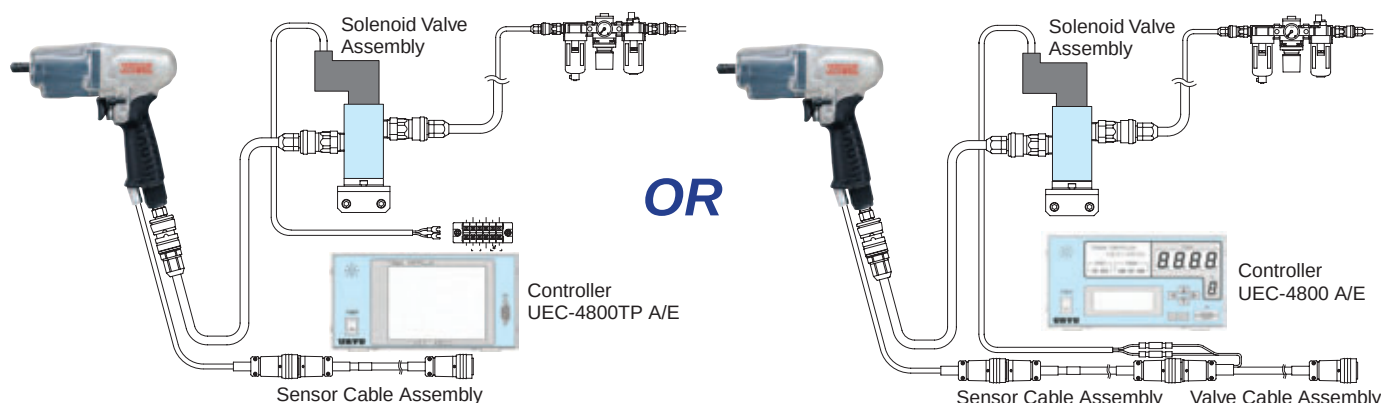
SUPER "INTELEC" SYSTEM ULMC TOOLS

We have added the new range of Super Intelec System in combination with **UL-series** Air Motor and non-contact magnetostrictive type transducer. The main object to develop ULMC series is to reduce the weight and length of the tool for operator's comfort by removing the built-in shut-off valve mechanism. As a result, we could succeed in reducing both the weight and the length by approx. 20% in comparison with conventional ALPHA-MC series tools.

PISTOL TYPE



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		Noise Level	
			0.5MPa		0.6MPa															
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min		dB(A)
UL40MC	6	No.10	4.9-9.3	3.6-6.8	6.8-12.0	5.0-8.8	5200	5450	170.0	6 11/16	1.10	2.42	26.0	1 1/32	9.5	3/8	0.20	7.0	78	
UL40DMC	6	No.10	4.9-9.3	3.6-6.8	6.8-12.0	5.0-8.8	5200	5450	169.5	6 43/64	1.10	2.42	26.0	1 1/32	6.35	1/4	0.20	7.0	78	
UL50MC	6	No.10	11.9-22.5	8.8-16.6	16.6-29.0	12.2-21.4	6300	6700	175.0	6 57/64	1.10	2.42	26.0	1 1/32	9.5	3/8	0.25	8.8	78	
UL60MC	8	5/16	18.1-34.2	13.3-25.3	25.1-44.0	18.5-32.5	6100	6600	175.0	6 57/64	1.14	2.51	26.0	1 1/32	9.5	3/8	0.40	14.0	80	
UL70MC	8-10	5/16-3/8	20.5-38.9	15.1-28.7	28.5-50.0	21.0-37.0	5300	5700	187.0	7 23/64	1.24	2.73	26.0	1 1/32	9.5	3/8	0.45	15.8	80	
UL90MC	10-12	3/8-1/2	32.8-62.2	24.2-46.0	45.7-80.0	33.8-59.2	5200	5500	203.0	7 63/64	1.70	3.74	28.0	1 7/64	12.7	1/2	0.53	18.6	82	
UL100MC	12	1/2	36.9-70.0	27.3-51.8	51.4-90.0	38.0-66.6	4900	5200	215.0	8 15/32	2.05	4.51	30.0	1 3/16	12.7	1/2	0.55	19.3	82	
UL130MC	14	9/16	(UNDER DEVELOPMENT)							232.0	9 9/64	2.50	5.50	36.0	1 27/64	12.7	1/2	0.73	25.6	82

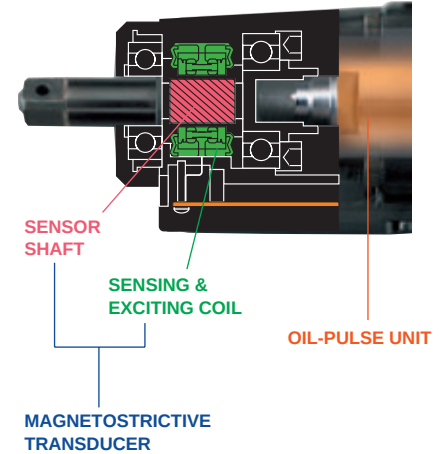
Air Inlet size : NPT1/4" Air Hose size : 6.35mm (1/4")

SUPER "INTELEC" SYSTEM MC 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.

PISTOL / STRAIGHT TYPE



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

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		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	
ALPHA-60MC	6	1/4	9-15	6.5-10.8	10-20	7.2-14.4	6800	7000	215	8 5/54	1.40	3.1	25.5	1	9.5	3/8	0.25	8.8	75
ALPHA-60DMC	6	1/4	9-15	6.5-10.8	10-20	7.2-14.4	6800	7000	215	11 1/32	1.40	3.1	25.5	1	6.35	1/4	0.25	8.8	75
ALPHA-60SMC*	6	1/4	9-15	6.5-10.8	10-17	7.2-14.4	6000	6300	280	8 5/54	1.40	2.6	25.5	1	9.5	3/8	0.25	8.8	75
ALPHA-70MC	8	1/4-5/16	12.5-25	8.6-18.0	15-30	10.8-21.6	6800	7300	215	8 5/54	1.43	3.1	25.5	1	9.5	3/8	0.25	8.8	75
ALPHA-80MC	8	5/16	16-30	11.5-21.6	20-40	14.4-28.9	6800	7000	231	8 21/32	1.50	3.3	25.5	1	9.5	3/8	0.45	15.8	78
ALPHA-90MC	8-10	5/16-3/8	20-40	14.4-28.9	30-47	21.6-33.9	6000	6500	231	8 21/32	1.50	3.3	25.5	1 7/64	9.5	3/8	0.45	15.8	78
ALPHA-101MC	10	3/8	34-58	24.5-42.6	38-70	27.4-51.3	6000	6200	243	9 11/64	2.10	4.6	28.0	1 3/16	12.7	1/2	0.50	17.6	80
ALPHA-110MC	12	3/8-1/2	45-75	32.5-54.9	55-100	40.5-72.3	4500	5000	250	9 51/64	2.50	5.6	30.0	1 27/64	12.7	1/2	0.65	22.9	80
ALPHA-130MC	14	9/16	80-130	58.5-95.4	90-150	65.8-109.9	3200	3400	276	10 15/32	3.50	7.7	36.0	1 21/32	12.7	1/2	0.65	22.9	82
ALPHA-140MC	16	5/8	140-200	103.4-147.6	150-220	110.7-162.0	3300	3500	295	11 5/8	4.63	10.2	40.0	1 37/64	19.0	3/4	0.80	28.3	84.5
UXR-1820MC	18	45/64	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	84
UXR-2000MC	20	25/32	200-350	147.6-258.2	250-400	184.4-295.1	4600	4800	355	13 31/64	8.00	17.6	47.0	1 21/32	19.0	3/4	0.95	33.6	85
UXR-2400SMC	24	15/16	300-550	221.3-405.8	350-600	258.2-442.7	3100	3300	457	16 3/8	12.5	27.6	55.0	1 11/64	25.4	1	1.00	35.3	85

*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

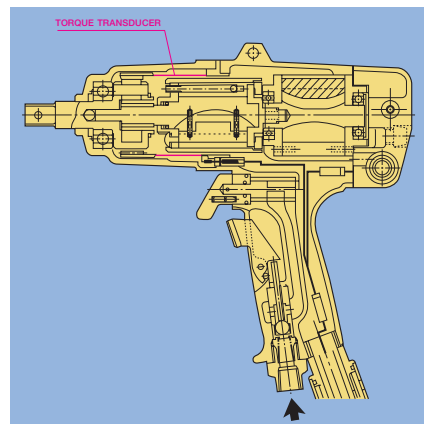
SUPER "INTELEC" SYSTEM EC TOOLS

The **EC-Series** of URYU popular Oil-Pulse Tools are equipped with strain-gauged torque transducer on the geared Oil-Pulse Unit and are matched with the Electronic Control Unit, model UEC-4500.

This URYU SUPER INTELEC system performs easily with strict control and monitoring of fastening torque and eliminates time consuming manual torque check for super quality control and higher productivity.

Cautionary lamp and buzzer warn when fasteners are missed or insufficiently fastened.

PISTOL / STRAIGHT TYPE



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		Noise Level
			0.5MPa		0.6MPa														
	mm	in	Nm	ft-lbs	Nm	ft-lbs	0.5MPa	0.6MPa	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	dB(A)
U-50EC	6	No.10	4-10	2.9-7.4	5-11	3.7-8.1	2000	2100	195	7 64/64	1.50	3.31	24.0	1 1/32	9.5	3/8	0.25	8.8	72
U-50DEC	6	No.10	4-10	2.9-7.4	5-11	3.7-8.1	2000	2100	201	7 15/16	1.50	3.31	24.0	1 1/32	6.35	1/4	0.25	8.8	72
U-60EC	6	No.10	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	75
U-60DEC	6	No.10	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	75
UX-80EC	8	5/16-3/8	15-40	18.4-29.5	20-45	14.7-33.2	1700	1800	196	7 3/4	1.80	3.97	30.0	1 3/16	9.5	3/8	0.45	15.8	77
U-100EC	10	25/64	40-70	29.5-51.6	50-80	36.9-59.0	1500	1600	233	8 11/64	2.80	6.17	33.0	1 19/64	12.7	1/2	0.65	22.9	78
UX-120EC	12	1/2	-	-	-	-	-	-	255	9 61/64	3.90	8.60	36.0	1 27/64	12.7	1/2	0.80	28.2	80
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	80
U-50SEC*	6	No.10	4-10	2.9-7.4	5-11	3.7-8.1	2000	2100	280	11 11/64	1.55	3.42	21.0	53/64	9.5	3/8	0.22	7.7	72
U-50SDEC*	6	No.10	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	72
U-60SEC	6	No.10	10-20	7.4-19.1	15-25	11.1-18.4	1800	1900	305	12	2.00	4.41	27.0	1 1/16	9.5	3/8	0.35	12.3	75

*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.

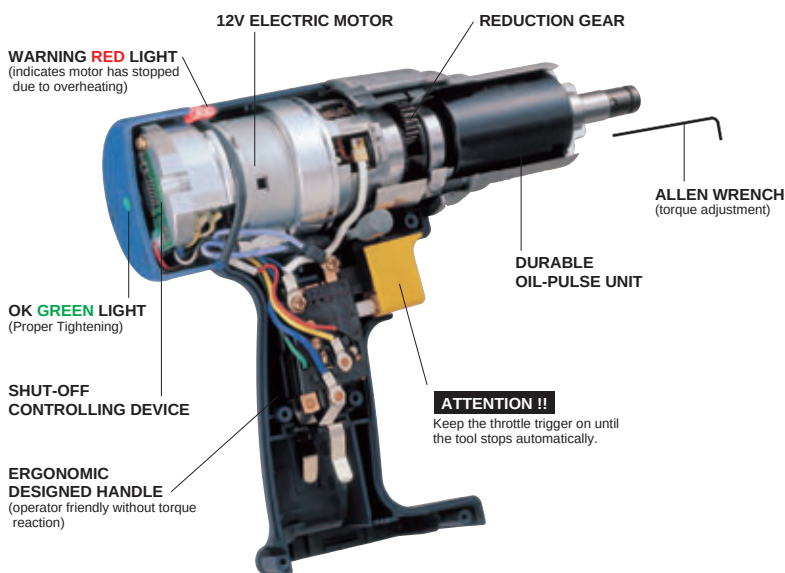
Air Inlet Size : NPT1/4"

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

BATTERY OIL-PULSE TOOLS

UBP-T series 12V Battery Powered Oil-Pulse Tools offer the most 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.

PISTOL TYPE (12V)

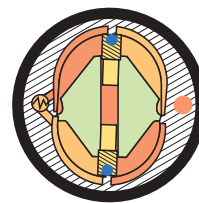


UBP SERIES

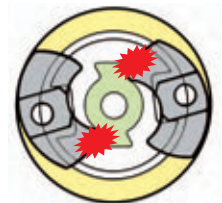
Offer a healthy work environment featuring operator comfort while reducing fatigue. The Hydraulic Pulse Action of Battery Oil-Pulse tools minimizes noise & vibration generated by the structural metal-to-metal contact of Battery Impact Types, eliminating most wearing parts thus producing cost savings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

DIFFERENCE OF FASTENING MECHANISM

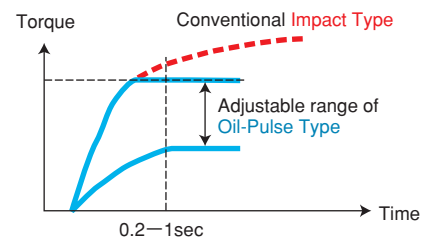
(OIL-PULSE TYPE)



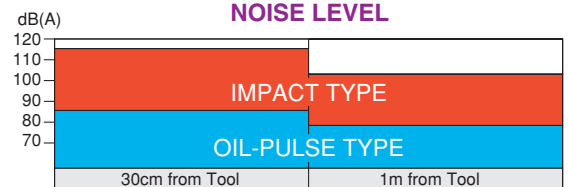
(IMPACT TYPE)



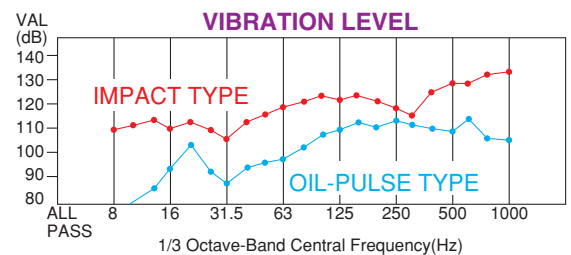
TORQUE CHART



NOISE LEVEL



VIBRATION LEVEL



SPECIFICATIONS

Model	Capacity (Nominal Bolt Size)		Torque range		Free Speed (Approx.)	Overall Length (about)		Weight less Battery (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Number of Fastening per charge (about)		Noise Level
	mm	in	Nm	ft-lbs	rpm	mm	in	kg	lb	mm	in	mm	in	Hard Joint	Soft Joint	dB(A)
UBP-T40	6	1/4	6.5-11	4.8-8.1	2,200	211	8 5/16	1.2	2.64	28.0	1 7/64	6.35	1/4	420	170	85
UBP-T50	6-8	1/4-5/16	10-23	7.4-17.0	2,200	211	8 5/16	1.2	2.64	28.0	1 7/64	6.35	1/4	480	210	85
UBP-T50(P)	6-8	1/4-5/16	10-23	7.4-17.0	2,200	211	8 5/16	1.2	2.64	28.0	1 7/64	9.5	3/8	480	210	85
UBP-T60	8	5/16	14-26	10.4-19.2	2,200	216	8 1/2	1.3	2.85	28.0	1 7/64	6.35	1/4	470	190	85
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	85
UBP-65※	8	5/16	15-30	11.1-22.2	2,200	189	7 7/16	1.2	2.64	28.0	1 7/64	6.35	1/4	510	150	83
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	83

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

Recommended Battery Charger : Panasonic Model EY0230B(AC110V~230V). Recommended Battery Pack : Panasonic Model EY9200B(DC12V)
(Please procure above parts from the local supplier of Panasonic products in your country.)

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.

Pistol type



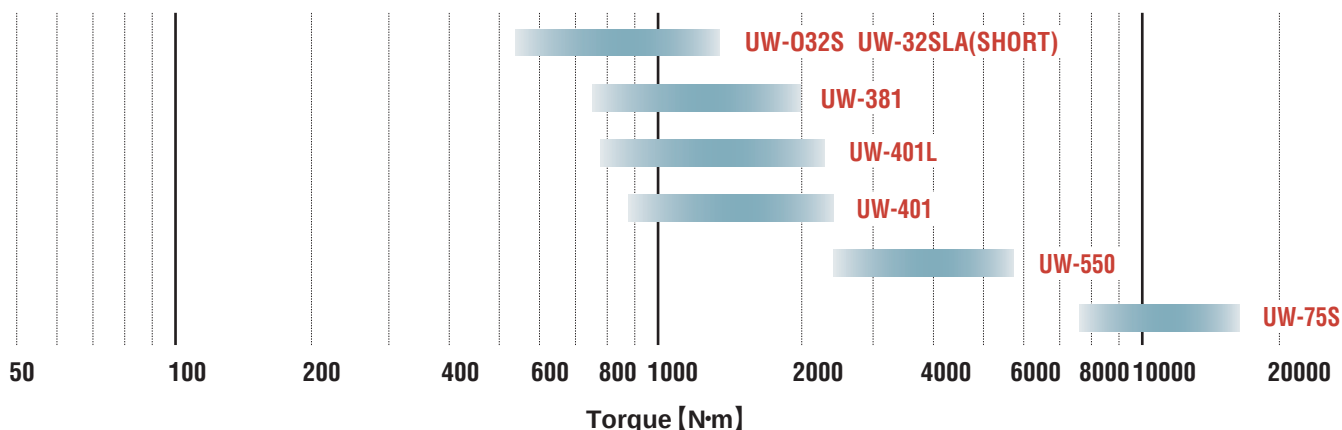
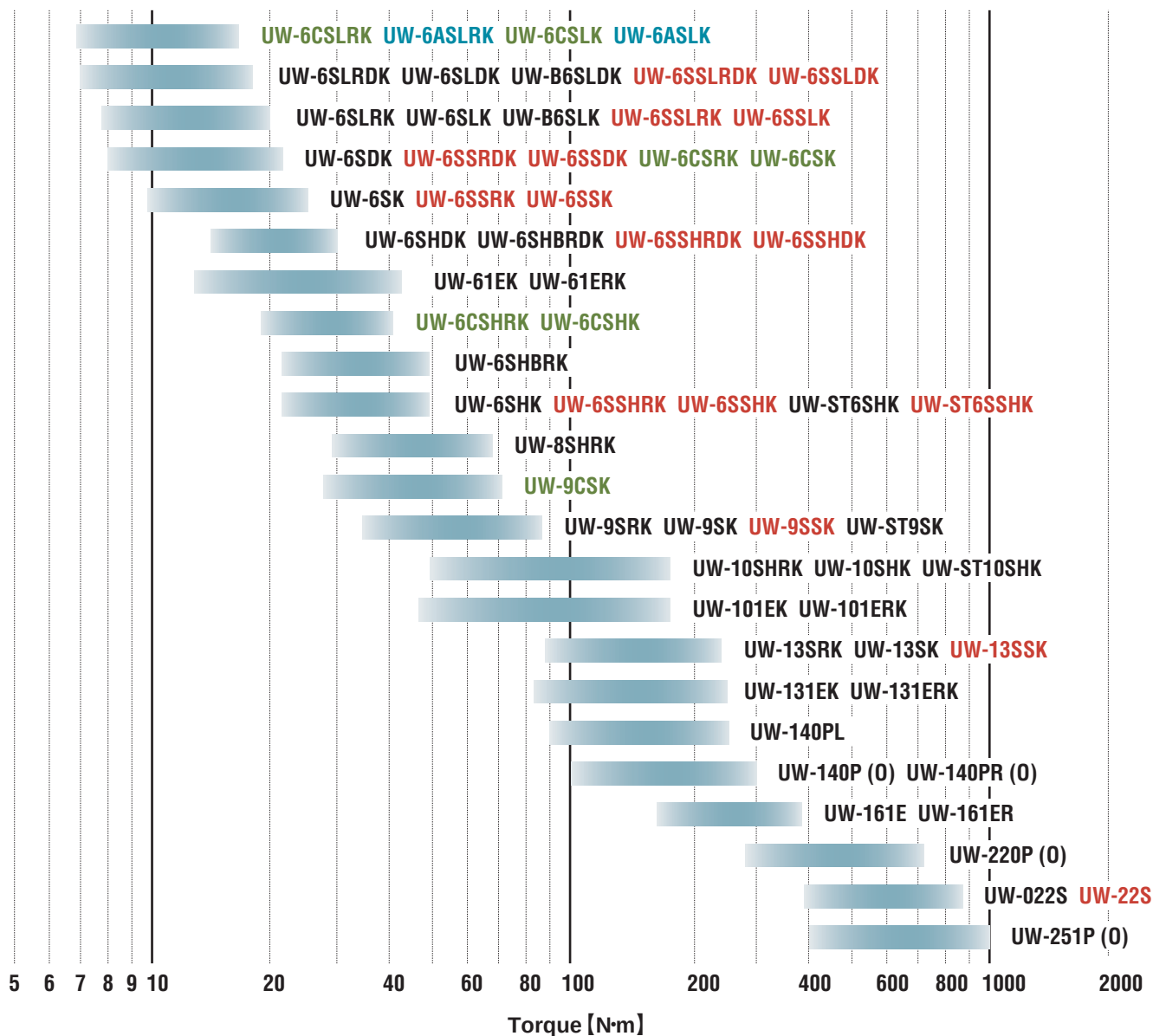
Straight type



Corner type



Angle type



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.

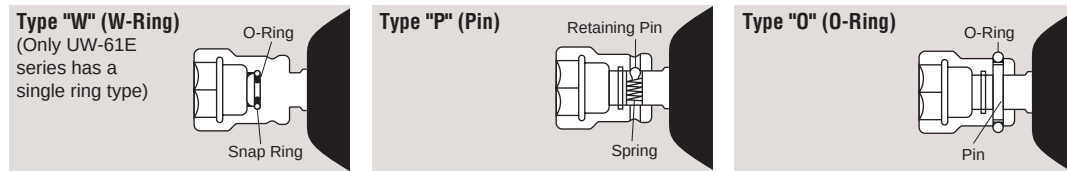
Model name of Impact Wrenches

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

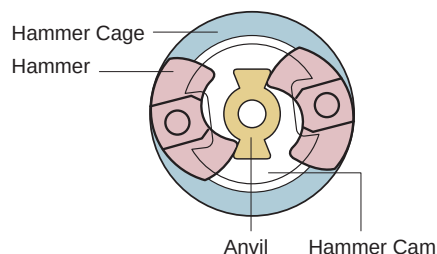
Socket Retaining Methods

Please specify the type of Anvil when ordering.



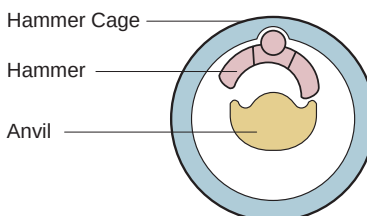
Double-Hammer mechanism

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.



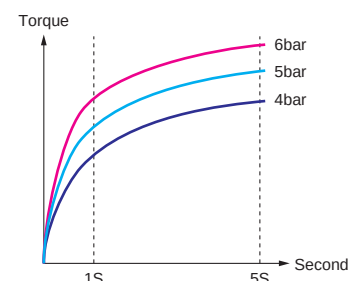
Swing-Hammer mechanism

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

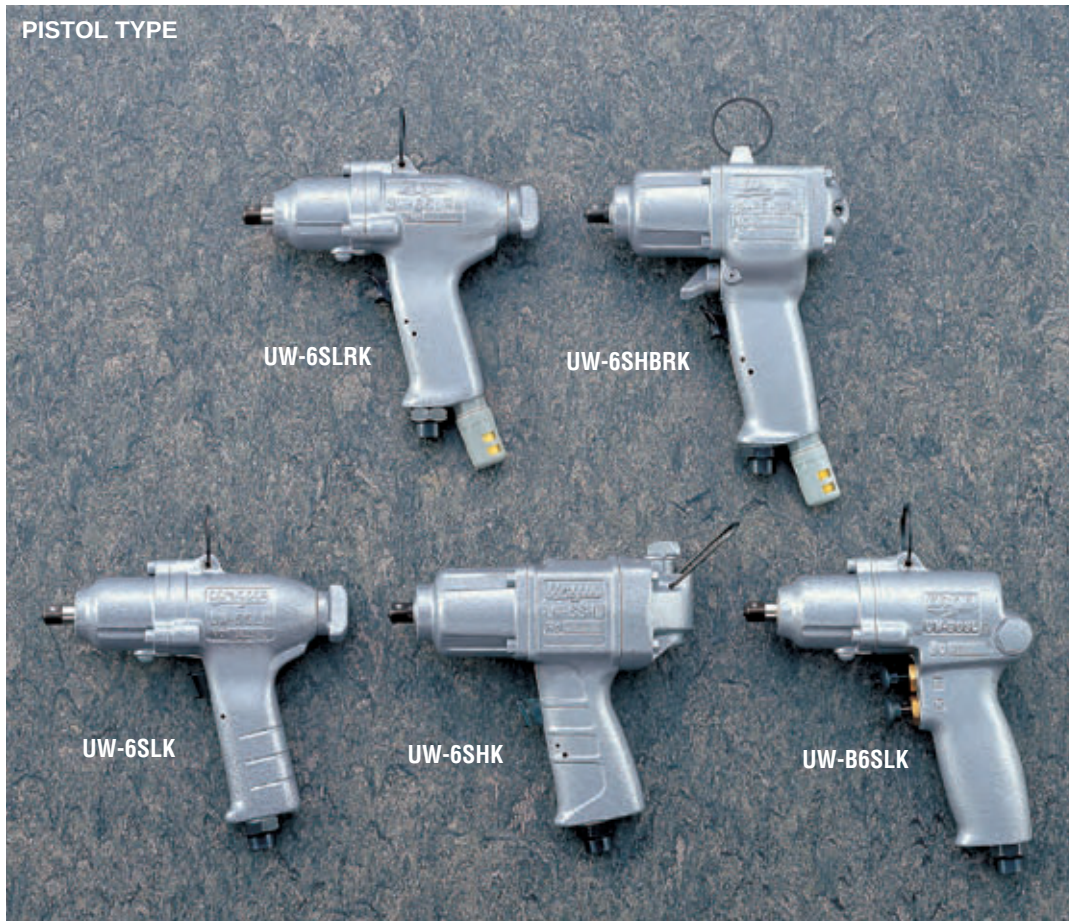
To avoid excess wear of the parts, the tightening time is recommended not to exceed 5 seconds.



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

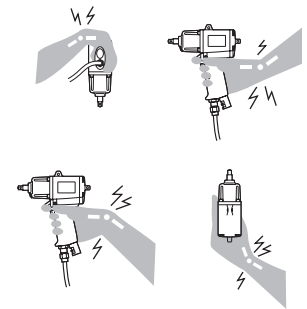


WARNING

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

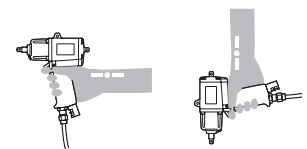
(BAD POSTURE)

Avoid repeated bending of wrists and hands.



(GOOD POSTURE)

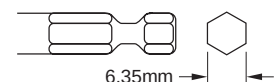
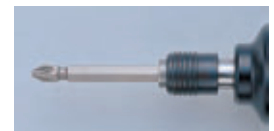
Keep wrists straight.



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

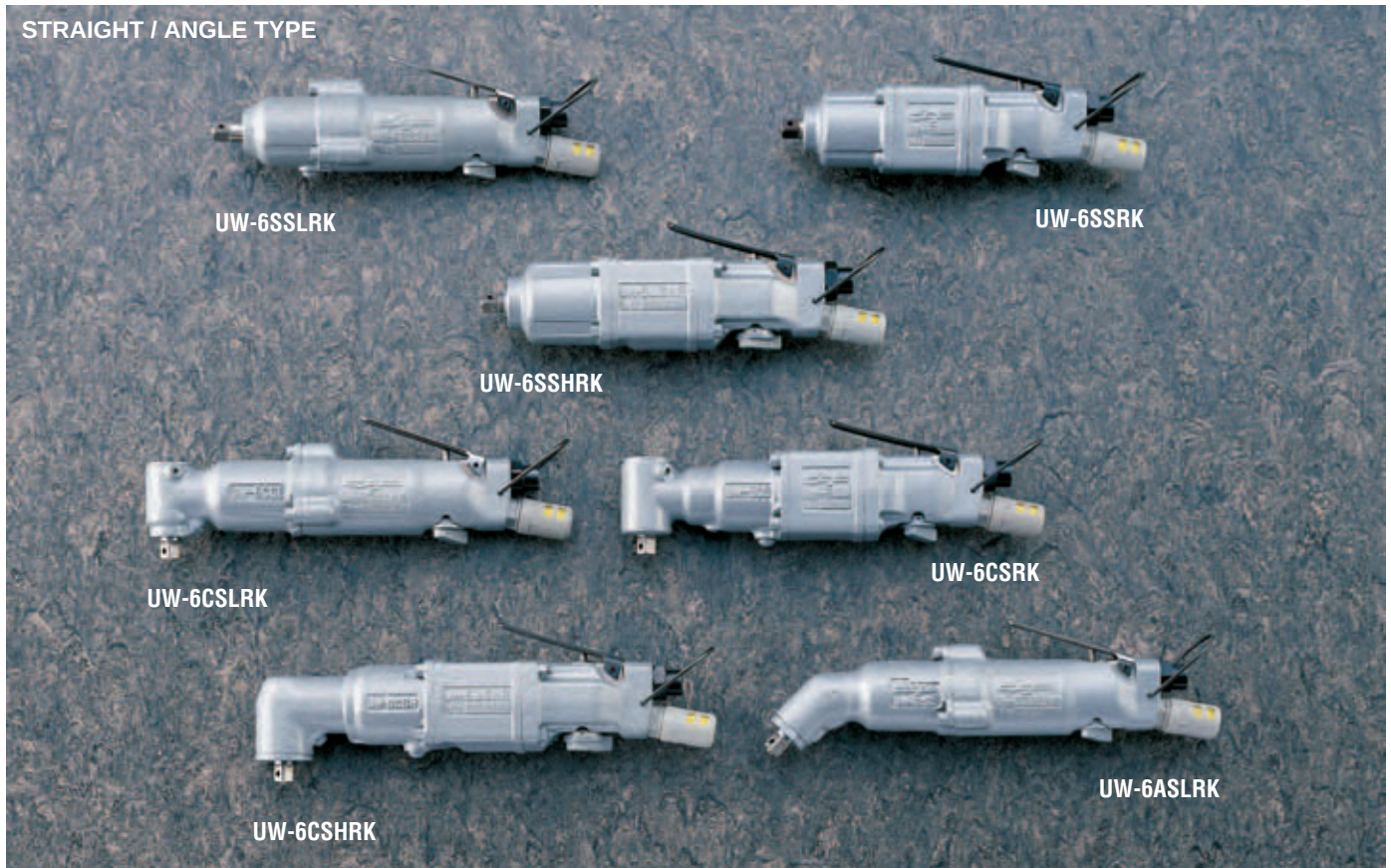
Recommended Air Pressure: 0.6MPa(85psi)

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		Noise Level
	mm	in		mm	in	kg	lb	mm	in	mm	in	m ³ /min	ft ³ /min	
UW-6SLRK	6	1/4	8500	169	6 21/32	0.97	2.13	31.0	1 7/32	9.5	3/8	0.35	12.4	91
UW-6SHBRK	8	5/16	7300	153	6 1/32	1.36	2.99	28.0	1 7/64	9.5	3/8	0.35	12.4	92
UW-6SLK	6	1/4	8500	165	6 1/2	0.97	2.13	31.0	1 7/32	9.5	3/8	0.30	10.5	92
UW-B6SLK	6	1/4	8500	160	6 5/16	0.97	2.13	31.0	1 7/32	9.5	3/8	0.30	10.5	92
UW-6SK	6	1/4	7500	160	6 5/16	1.22	2.68	27.5	1 5/64	9.5	3/8	0.30	10.5	93
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	93
UW-6SHK	8	5/16	7500	171	6 47/64	1.41	3.10	28.0	1 7/64	9.5	3/8	0.35	12.4	92
UW-6SLRDK	6	1/4	8500	169	6 21/32	0.97	2.13	31.0	1 7/32	6.35	1/4	0.30	10.5	91
UW-6SHBRDK	8	5/16	7300	153	6 1/32	1.36	2.99	28.0	1 7/64	6.35	1/4	0.35	12.4	91
UW-6SLDK	6	1/4	8500	165	6 1/2	0.97	2.13	31.0	1 7/32	6.35	1/4	0.30	10.5	92
UW-B6SLDK	6	1/4	8500	170	6 45/64	1.00	2.20	31.0	1 7/32	6.35	1/4	0.30	10.5	92
UW-6SDK	8	5/16	7500	160	6 5/16	1.22	2.68	27.5	1 5/64	6.35	1/4	0.30	10.5	93
UW-6SADK	6	1/4	7500	160	6 5/16	1.10	2.47	27.5	1 5/64	6.35	1/4	0.30	10.5	93
UW-6SHDK	8	5/16	7500	190	6 47/64	1.45	3.19	28.0	1 7/64	6.35	1/4	0.35	12.4	92

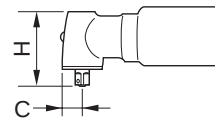
Air Hose Size (Inside Diameter) : 9.5mm (3/8")

Air Inlet Thread (Pipe Tap) : NPT1/4"

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 less Socket or Bit (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Sq. Drive or Hex. Size		Average Air Consumption		Noise Level
	mm	in		mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	
UW-6SSLRK	6	1/4	8500	212	8 11/32	0.87	1.91	31.0	1 7/32	9.5	3/8	0.30	10.5	90
UW-6SSRK	6	1/4	7500	201	7 29/32	0.97	2.13	29.5	1 5/32	9.5	3/8	0.30	10.5	90
UW-6SSHRK	8	5/16	7300	228	8 63/64	1.26	2.77	27.5	1 3/32	9.5	3/8	0.35	12.4	91
UW-6SSLK	6	1/4	8500	190	7 31/64	0.87	1.91	31.0	1 7/32	9.5	3/8	0.30	10.5	91
UW-6SSK	6	1/4	7500	184	7 1/4	0.97	2.13	28.0	1 7/64	9.5	3/8	0.30	10.5	91
UW-6SSHK	8	5/16	7500	201	7 27/32	1.21	2.66	27.5	1 5/64	9.5	3/8	0.35	12.4	92
UW-6SSLRDK	6	1/4	8500	227	8 15/16	0.90	1.98	31.0	1 7/32	6.35	1/4	0.30	10.5	90
UW-6SSRDK	6	1/4	7500	213	8 3/8	1.00	2.20	29.5	1 5/32	6.35	1/4	0.30	10.5	90
UW-6SSHRDK	8	5/16	7300	238	9 3/8	1.30	2.86	29.5	1 5/32	6.35	1/4	0.35	12.4	91
UW-6SSLDK	6	1/4	8500	202	7 61/64	0.90	1.98	31.0	1 7/32	6.35	1/4	0.30	10.5	91
UW-6SSDK	6	1/4	7500	194	7 41/64	1.00	2.20	28.0	1 7/64	6.35	1/4	0.30	10.5	91
UW-6SSHDK	8	5/16	7500	211	8 5/16	1.25	2.75	27.5	1 5/64	6.35	1/4	0.35	12.4	92
UW-6CSLRK	6	1/4	8000	238	8 11/32	1.17	2.57	31.0	1 7/32	9.5	3/8	0.30	10.5	93
UW-6CSRK	6	1/4	7300	234	9 7/32	1.42	3.12	29.5	1 5/32	9.5	3/8	0.30	10.5	94
UW-6CSHRK	8	5/16	7300	256	10 5/64	1.71	3.76	27.5	1 5/64	9.5	3/8	0.30	10.5	94
UW-6ASLRK	6	1/4	6500	260	10 15/64	1.14	2.50	31.0	1 7/32	9.5	3/8	0.30	10.5	92
UW-6CSLK	6	1/4	8000	218	8 19/32	1.17	2.57	31.0	1 7/32	9.5	3/8	0.30	10.5	93
UW-6CSK	6	1/4	7500	271	10 43/64	1.42	3.12	28.0	1 7/64	9.5	3/8	0.30	10.5	94
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	94
UW-6ASLK	6	1/4	6500	240	9 5/32	1.14	2.50	31.0	1 7/32	9.5	3/8	0.30	10.5	92

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

IMPACT WRENCHES

PISTOL TYPE



Built-in AIR REGULATOR

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



SPECIFICATIONS

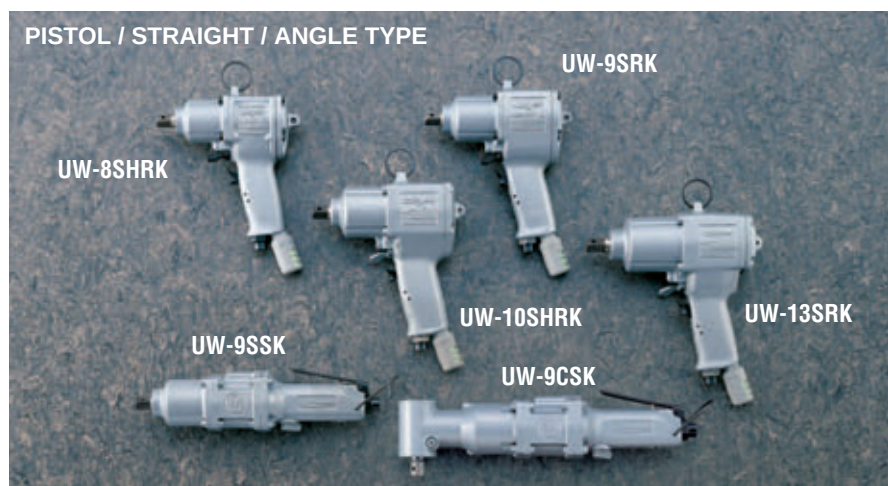
Recommended Air Pressure : 0.6MPa (85psi)

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		Noise Level
	mm	in	rpm	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	
UW-61EK	8	5/16	7500	150	5 15/64	1.62	3.56	29.5	1 5/32	9.5	3/8	0.35	12.4	92
UW-101EK	10	3/8	6500	183	7 13/64	2.32	5.87	36.0	1 27/64	12.7	1/2	0.45	16.0	97
UW-131EK	13	1/2	6000	212	8 11/32	2.87	6.31	37.5	1 15/32	12.7	1/2	0.55	19.4	98
UW-161E	16	5/8	4200	210	8 17/64	4.00	8.80	41.5	1 41/64	19.0	3/4	0.65	23.0	97
UW-61ERK	8	5/16	7300	154	6	1.51	3.32	29.5	1 5/32	9.5	3/8	0.35	12.4	91
UW-101ERK	10	3/8	5500	185	7 9/32	2.27	4.99	36.0	1 27/64	12.7	1/2	0.45	16.0	96
UW-131ERK	13	1/2	5500	210	8 17/64	2.97	6.53	37.5	1 15/32	12.7	1/2	0.55	19.4	97
UW-161ER	16	5/8	3800	215	8 15/32	4.10	9.00	41.5	1 41/64	19.0	3/4	0.65	23.0	96

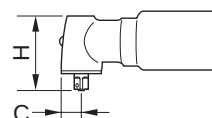
Air Hose Size (Inside Diameter) : 12.7mm (1/2") for UW-161E & UW-161ER 9.5mm (3/8") for UW-61E, 101E & 131E series

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

PISTOL / STRAIGHT / ANGLE TYPE



Head Sizes



MODEL	C		H	
	mm	in	mm	in
UW-9CSK	22.0	7/8	85.0	3 11/32
UW-13CSK	26.0	1 1/32	102.0	4 7/32

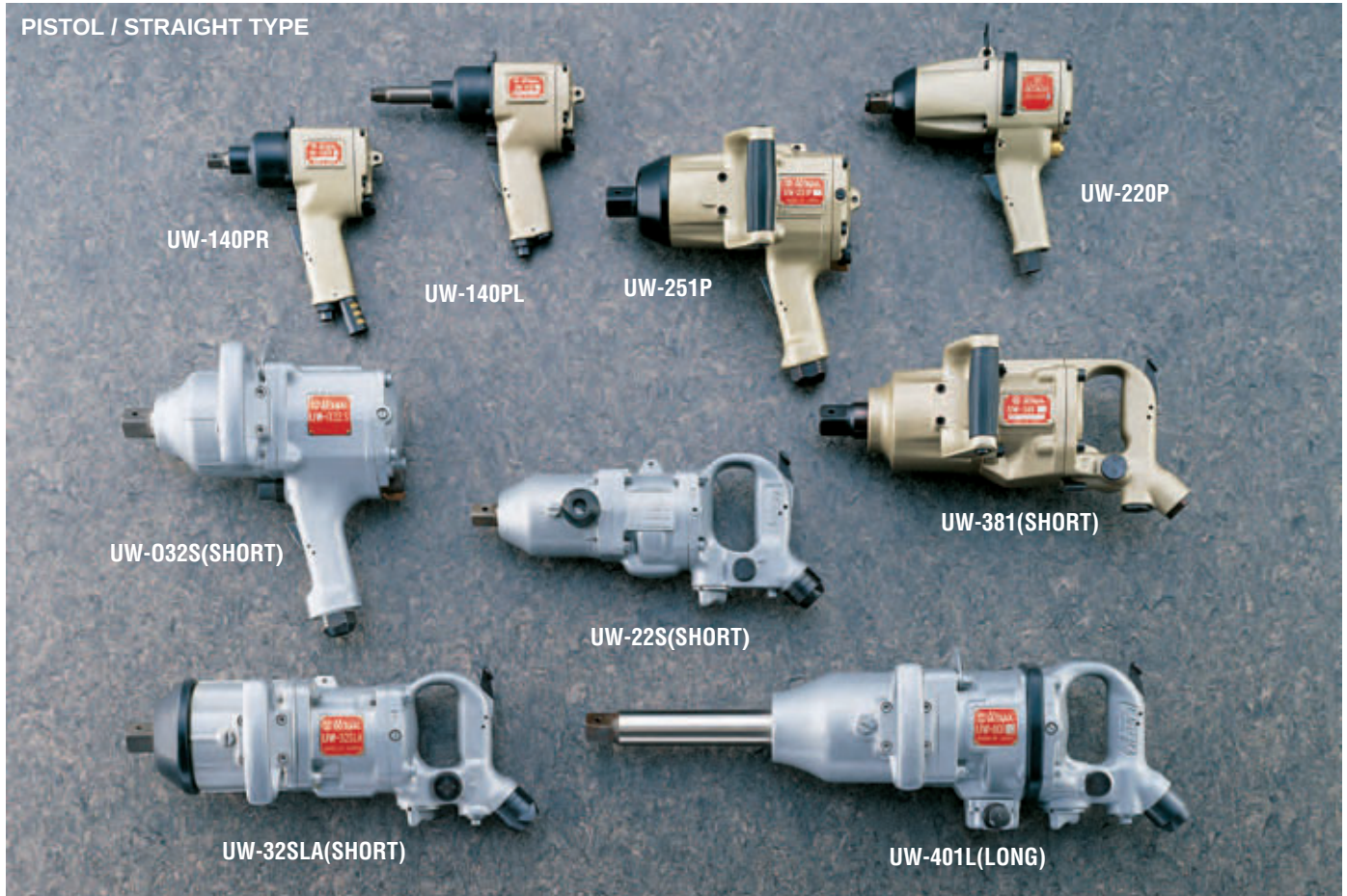
SPECIFICATIONS

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		Noise Level
	mm	in	rpm	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	
UW-8SHRK	8	5/16	7300	172	6 25/32	1.55	3.41	31.0	1 7/32	12.7	1/2	0.40	14.0	93
UW-9SRK	10	3/8	7000	173	6 13/16	1.79	3.93	34.0	1 11/32	12.7	1/2	0.45	16.0	93
UW-10SHRK	10-12	3/8-1/2	6000	197	7 3/4	2.13	4.68	35.0	1 3/8	12.7	1/2	0.45	16.0	95
UW-13SRK	13	1/2	6000	205	8 5/64	2.61	5.74	37.5	1 15/32	12.7	1/2	0.45	16.0	95
UW-8SHK	8	5/16	7500	172	6 25/32	1.55	3.41	31.0	1 7/32	12.7	1/2	0.40	14.0	95
UW-9SK	10	3/8	7000	185	7 3/16	1.84	4.04	34.0	1 11/32	12.7	1/2	0.50	17.6	95
UW-10SHK	10-12	3/8-1/2	6500	197	7 3/4	2.13	4.68	35.0	1 3/8	12.7	1/2	0.45	16.0	97
UW-13SK	13	1/2	6500	221	8 23/32	2.61	5.74	37.5	1 15/32	12.7	1/2	0.55	19.4	97
UW-9SSK	10	3/8	7000	290	11 7/16	2.10	4.62	34.0	1 11/32	12.7	1/2	0.45	16.0	95
UW-13SSK	13	1/2	6300	303	11 15/16	3.17	6.97	39.0	1 17/32	12.7	1/2	0.55	19.4	97
UW-9CSK	10	3/8	7000	338	13 5/16	2.78	6.11	34.0	1 11/32	12.7	1/2	0.35	12.4	95
UW-13CSK	13	1/2	6500	375	14 3/4	5.17	11.37	39.0	1 17/32	12.7	1/2	0.75	26.5	97

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

PISTOL / STRAIGHT TYPE



*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		Noise Level
	mm	in		mm	in	kg	lb	mm	in	mm	in	m ³ /min	ft ³ /min	
UW-140P, -140PR	12	1/2	6500	200	8	2.70	5.90	33.0	1 19/64	12.7	1/2	0.70	25.0	93
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	93
UW-220P	19	3/4	5500	225	8 7/8	4.40	9.60	42.0	1 21/32	19.0	3/4	0.70	25.0	95
UW-220PL	19	3/4	5500	338	13 1/4	4.70	10.30	42.0	1 21/32	19.0	3/4	0.70	25.0	95
UW-251P	25	1	5500	275	10 53/64	8.00	17.60	51.5	2 1/32	25.4	1	0.80	28.0	95
UW-251PL	25	1	5500	394	15 33/64	8.80	19.40	51.5	2 1/32	25.4	1	0.80	28.0	95
UW-22S	22	7/8	4000	395	14 1/16	7.90	17.41	50.0	1 31/32	19.0	3/4	0.75	26.5	103
UW-22S(L)	22	7/8	4000	480	18 29/32	8.30	18.30	50.0	1 31/32	19.0	3/4	0.75	26.5	103
UW-022S	22	7/8	3800	277	10 29/32	7.65	16.80	50.0	1 31/32	19.0	3/4	0.75	26.5	103
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	109
UW-32SLA	32	1 1/4	3500	390	15 1/32	11.70	25.74	62.5	2 29/64	25.4	1	0.90	32.0	109
UW-32SLA(L)	32	1 1/4	3500	535	21 1/16	12.50	27.50	62.5	2 29/64	25.4	1	0.90	32.0	109
UW-381	38	1 1/2	4700	355	13	9.50	20.90	58.5	2 19/64	25.4	1	0.90	31.5	100
UW-381L	38	1 1/2	4700	504	19 27/32	10.00	22.00	58.5	2 19/64	25.4	1	0.90	31.5	100
UW-381P	38	1 1/2	4700	276	10 7/8	9.50	20.90	58.5	2 19/64	25.4	1	0.90	31.5	99
UW-381PL	38	1 1/2	4700	425	16 3/4	10.00	22.00	58.5	2 19/64	25.4	1	0.90	31.5	99
UW-401	38	1 1/2	3200	421	16 37/64	15.10	33.22	62.5	2 29/64	25.4	1	1.20	42.4	110
UW-401L	38	1 1/2	3200	591	23 17/64	16.50	36.30	62.5	2 29/64	25.4	1	1.20	42.4	110

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.

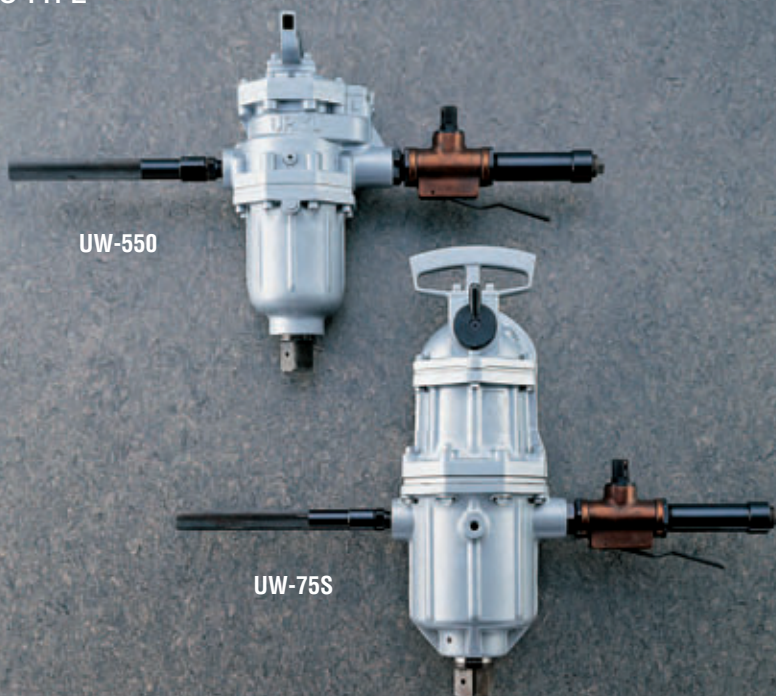
UW-220P Series are recommendable for various popular fastening joints in general industry. (300 - 700Nm)

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-381Series 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

JUMBO TYPE



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		Noise Level
	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	112
UW-75S	76	3	1400	668	26 17/64	56.0	123.0	96.0	3 25/32	44.4	1 3/4	3.20	114	112
UW-75S(1 1/2)	76	3	1400	668	26 17/64	56.0	123.0	96.0	3 25/32	38.1	1 1/2	3.20	114	112

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

Air Inlet Thread : NPT1"

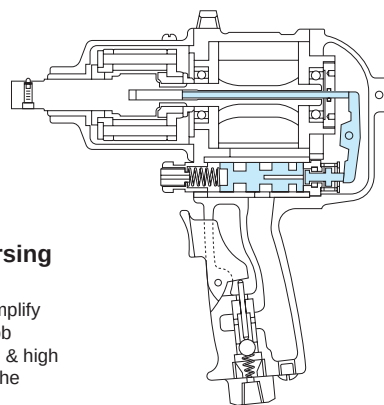
STUD BOLT WRENCHES

PISTOL / STRAIGHT TYPE



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		Noise Level
	mm	in		mm	in	kg	lb	mm	in	mm	in	m ³ /min	ft ³ /min	
UW-ST6SHK	8	5/16	6500	170	6 11/16	1.70	3.74	28.5	1 1/8	9.5	3/8	0.40	14.0	92
UW-ST9SK	10	3/8	6300	192	7 19/32	2.35	5.06	33.5	1 5/16	12.7	1/2	0.50	17.6	97
UW-ST10SHK	10 - 12	3/8 - 1/2	6300	195	7 11/16	2.60	5.72	33.5	1 5/16	12.7	1/2	0.50	17.6	97
UW-ST6SSHK	8	3/8 - 1/2	6500	230	9 1/16	1.35	2.97	28.5	1 1/8	9.5	3/8	0.40	14.0	92

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

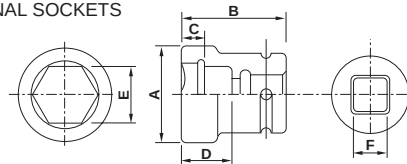
Air Inlet Thread : NPT1/4"

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	12.7
900-140-0	24	30	6.5	14.0	14	
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	
900-269-0	40.5	44	12.0	24.0	26	19.0
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	
900-380-0	50	54	15.0	29.0	32	
900-390-0	54	57	17.0	32.0	35	25.4
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	
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	25.4
900-519-0	78	76	24.0	48.0	50	

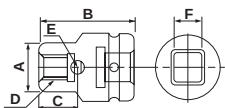
Code Nos.	Dimensions of Sockets (mm)					Sq. Drive F
	A	B	C	D	E	
900-580-0	64	66	19.0	31.0	41	31.8
900-587-0	70	70	21.0	35.0	46	
900-601-0	78	75	24.0	40.0	50	
900-605-0	82	80	27.0	45.0	54	
900-609-0	82	80	27.0	45.0	55	
900-610-0	88	83	29.0	48.0	58	
900-613-0	90	86	30.0	51.0	60	38.1
900-653-0	100	98	33.0	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	
900-666-0	125	111	43.0	66.0	85	
900-694-0	120	114	38.0	68.0	77	44.4
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	
900-744-0	164	140	60.0	89.0	110	50.8
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



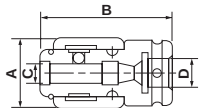
Sockets for Stud-Bolt Driving

Code Nos.	Nominal Bolt Sizes Dimensions of Sockets (mm)								Models
	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

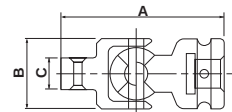
Code Nos.	A	B	C	D
907-000-0	22	41	6.35Hex	9.5Sq
907-050-0	24	46	8.0Sq	12.7Sq



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

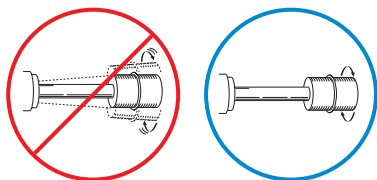
Joint Assembly

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.

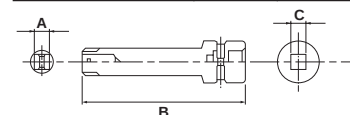


STANDARD

SPECIAL
EXTENSION BAR

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			UX-500
904-051-0	150			UX-612
904-075-0	190			UX-(T)700(L)
904-052-0	254			UX-(T)800
904-054-0	300			UL30
904-053-0	320	12.7mm (1/2")	OP-P TYPE	UL(T)40(S)
904-155-0	76			UL(T)50(S)
904-156-0	125			UL(T)60(S)
904-157-0	204			UL(T)70(S)
904-158-0	254			UX-(T)900
904-159-0	355			

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
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
904-455-0	200	25.4mm (1")	O-RING TYPE	UXR-2400S
				UXR-3000S

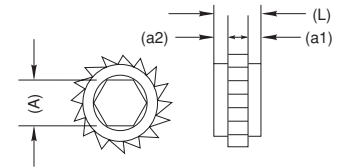


RATCHET WRENCHES

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.

RATCHET VARIATION

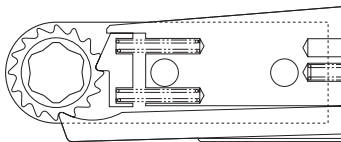
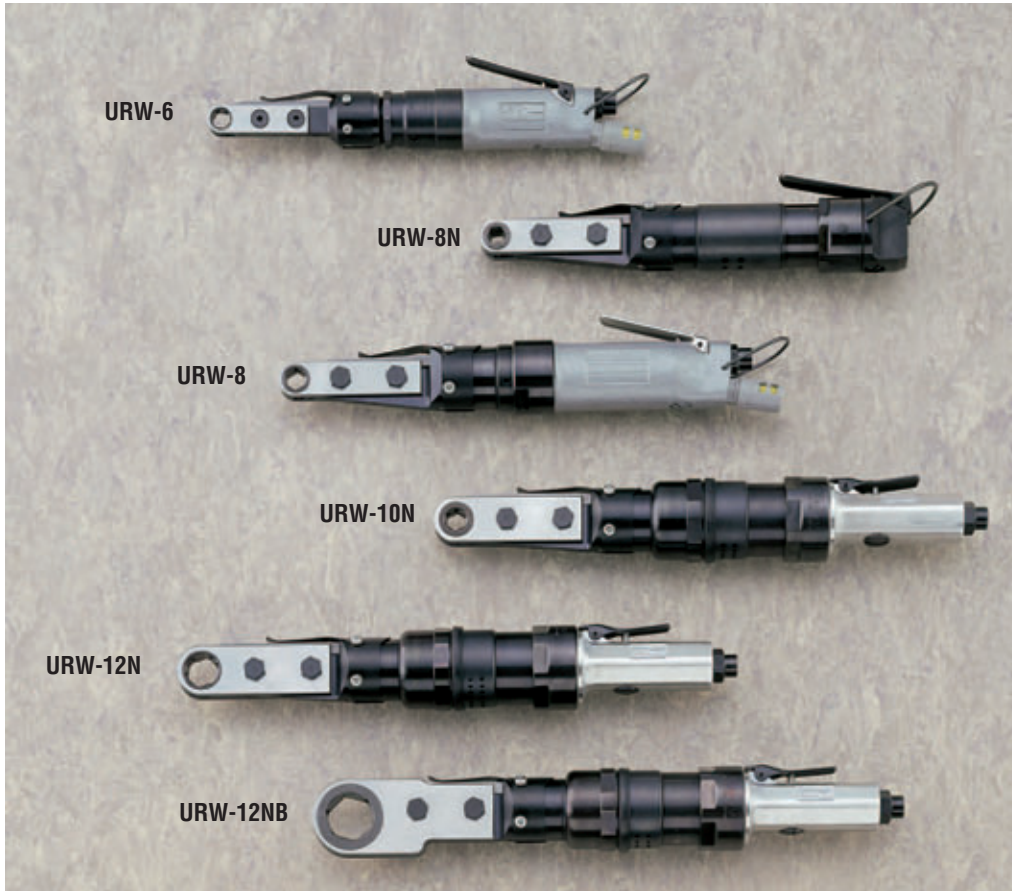
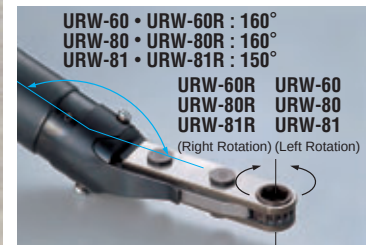
Specify type of ratchet, size of across flat and extension length.



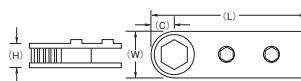
(A): Across Flat
(L): Thickness
(a1): Size in fastening side
(a2): Size in loosening side



Standard
Hex Ratchet
(Hex)



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,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 () Standard		Average Air Consumption		Noise Level
	mm	in	Nm	ft-lbs		mm	in	kg	lb	mm	in	m ³ /min	ft ³ /min	
URW-6	6	15/64	11	8.1	200	292	11 1/2	1.15	2.54	7, 8, (10), 12	3/8	0.28	9.9	81
URW-60, 60R	6	15/64	11	8.1	200	292	11 1/2	1.15	2.54	7, 8, (10), 12	3/8	0.28	9.9	85
URW-8N	8	5/16	16	11.8	220	300	11 13/16	1.80	3.96	9, 10, 12, (14)	7/16, 1/2, 9/16	0.55	19.5	90
URW-80, 80R	8	5/16	16	11.8	220	300	11 13/16	1.80	3.96	9, 10, 12, (14)	7/16, 1/2, 9/16	0.55	19.5	93
URW-81, 81R	8	5/16	16	11.8	220	300	11 13/16	1.80	3.96	9, 10, 12, (14)	7/16, 1/2, 9/16	0.55	19.5	93
URW-8	8	5/16	16	11.8	240	360	14 3/16	1.80	3.96	9, 10, 12, (14)	7/16, 1/2, 9/16	0.56	19.8	86
URW-9N	10	3/8	31	22.9	200	380	15	2.30	5.06	9, 10, 12, (14)	7/16, 1/2, 9/16	0.67	23.7	90
URW-10N	10	3/8	57	42.2	150	394	15 33/64	2.65	5.83	12, 14, (17)	9/16, 5/8, 11/16	0.70	25.0	90
URW-12N	13	1/2	59	43.7	150	397	15 5/8	2.70	5.94	19, (21)	3/4, 13/16	0.70	25.0	91
URW-12NA	14	9/16	78	57.7	100	408	16 1/16	3.00	6.60	22, (24), 27	3/4, 7/8, 15/16, 1	0.70	25.0	91
URW-12NB	16	5/8	93	68.8	85	416	16 19/64	3.20	7.04	29, (30), 32	3/4, 7/8, 15/16, 1	0.70	25.0	91

Air Inlet Thread (Pipe Tap) : NPT1/4"

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

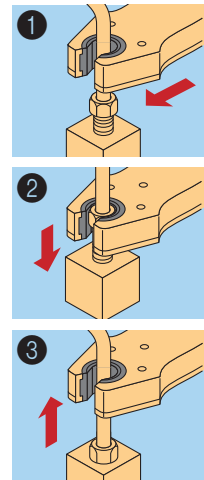
In addition to listed size, many other sizes are available for each models. Specify Hex. size when ordering, otherwise the standard ratchet is supplied.

Max Torque is a guideline.

OPEN-END / GEARED WRENCHES

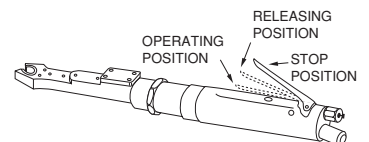
URYU offers two types of Open-End Wrenches for fast, accurate tube nut tightening. **UOW-11 series** is a stall torque type and **UOW-T60 series** is a mechanical shut-off type with external torque adjustment. All gear drive mechanism without ratcheting provides precise torque, silent operation and longer 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

- ① HALF-WAY for Releasing the Gear
Socket back to the open position.



- ② Full-down for Operation.

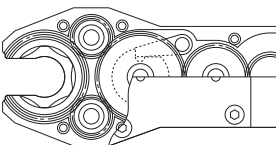
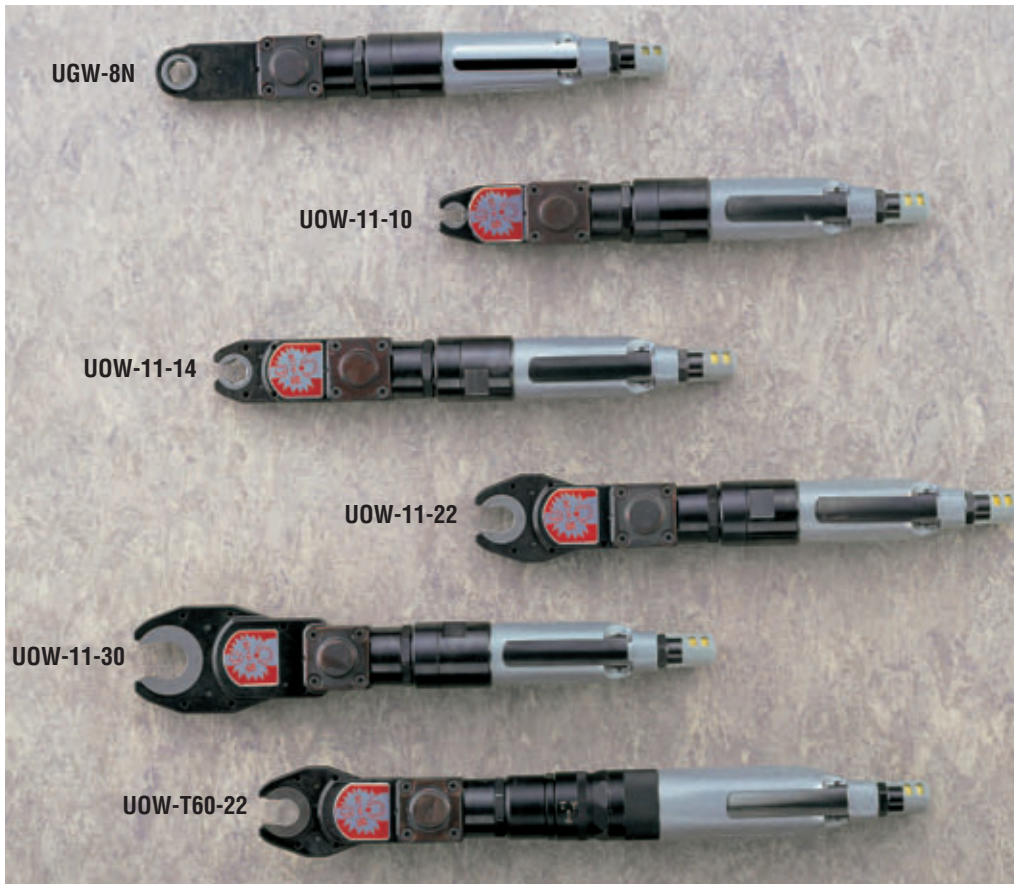
EXTERNAL DIAL

Torque adjustment (No special tool is needed)

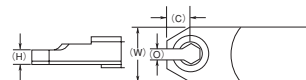


1 : Min.
3 : Max.

UOW-T60 series only.



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 (0.4MPa)		Free Speed (about)	Overall Length (about)		Weight (about)		* Hex Size of Gear Socket () Standard		Average Air Consumption		Noise Level
	Nm	ft-lbs		mm	in	kg	lb	mm	in	m³/min	ft³/min	
UOW-11-10	13	9.6	400	295	11 47/64	1.4	3.08	8, 9, (10)	1/8	0.35	12.5	76
UOW-11-14	16	11.8	260	311	12 1/4	1.8	3.96	10, 11, 12, 13, (14)	3/8, 1/2	0.35	12.5	76
UOW-11-22	24	17.8	180	326	12 53/64	1.8	3.96	17, 19, 21, (22)	5/8, 3/4, 7/8	0.35	12.5	76
UOW-11-30	32	23.7	135	347	13 21/32	2.5	5.50	23, 24, 26, 28, (30)	5/8, 3/4, 7/8	0.35	12.5	76
UOW-T60-10	4-14	3.0-10.4	300	370	14 5/8	1.8	3.96	8, 9, (10)	1/8	0.50	18.0	76
UOW-T60-14	5-17	3.7-12.6	230	385	15 1/8	2.2	4.85	10, 11, 12, 13, (14)	3/8, 1/2	0.50	18.0	76
UOW-T60-22	7-24	5.2-17.8	170	400	15 3/4	2.2	4.85	17, 19, 21, (22)	5/8, 3/4, 7/8	0.50	18.0	76
UOW-T60-30	10-32	7.4-23.7	130	420	16 5/8	2.9	3.30	23, 24, 26, 28, (30)	5/8, 3/4, 7/8	0.50	18.0	76
UGW-6N	18	13.3	530	310	12 13/64	1.4	3.08	9, (10), 11	3/8, 7/16	0.63	22.0	76
UGW-8N	23	17.0	410	322	12 11/16	1.5	3.31	12, 13, (14)	7/16, 9/16, 5/8	0.63	22.0	76

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

In addition to listed size, many other sizes are available for each models. Specify Hex. size when ordering, otherwise the standard ratchet is supplied.

Max Torque is a guideline.

TORQUE CONTROL ELECTRIC ANGLE NUTRUNNER

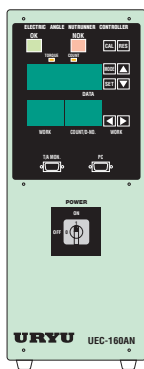
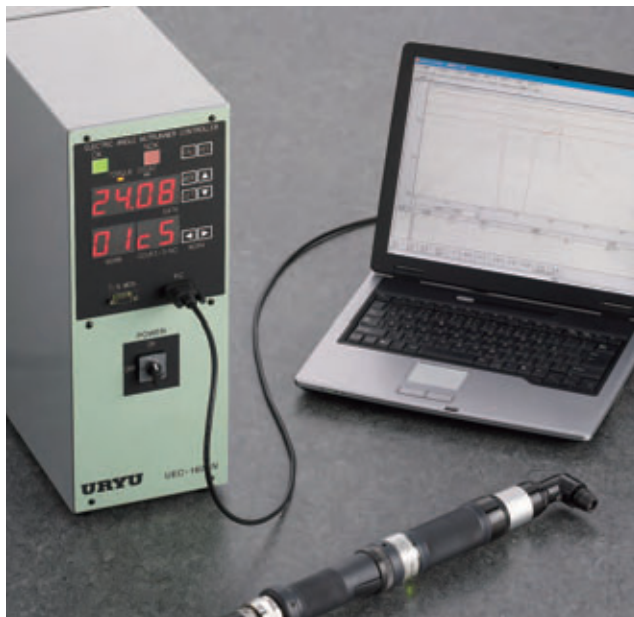
URYU has developed **UAN-F130 series** Electric Angle Nutrunner by merging his fastening technology of pneumatic tools in high speed servo motor angle nutrunner. Enable high accurate fastening with compact designed controller.

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

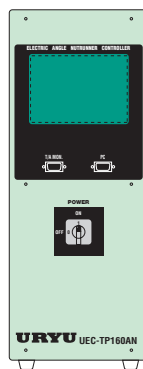
- High accurate fastening with Torque/Angle control.
- Displays Torque/Angle curves (displays these curves on front touch panel in touch panel type controller).
- Up to 16 multi-step fastening by programming with controller or through setup software of personal computer.
- Data storage capacity is 12,000 pieces. UEC-160AN 7-segment type : Download the stored data to your PC for statistical analysis of mean, σ , 3σ /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

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, ∇ , $\triangle$, $\triangleleft$, $\triangleright$, 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)

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



Specifications

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	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-TP160ANA/E	Power Cable	1



SPECIFICATIONS

Model	Capacity (Nominal Bolt Size)		Torque Range		Free Speed (Approx.)	Overall Length (about)		Weight less Socket or Bit (about)		From Center to Outside (about)		Angle Height (about)		Sq. Drive or Hex. Size		Noise Level
	mm	in	Nm	ft-lbs	rpm	mm	in	kg	lb	mm	in	mm	in	mm	in	dB(A)
UAN-F130-025	8	5/16	25	18.5	1060	419	16 1/2	1.53	3.37	14	35/64	49.0	1 59/64	9.5	3/8	70
UAN-F130-040	8-10	5/16-3/8	40	29.6	640	444	17 33/64	1.76	3.87	18	45/64	52.5	2 2/32	9.5	3/8	70
UAN-F130-060	10-12	3/8-1/2	60	44.4	440	444	17 33/64	1.77	3.89	18	45/64	58.0	2 9/32	12.7	1/2	70

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.

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.

Grease Cock

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

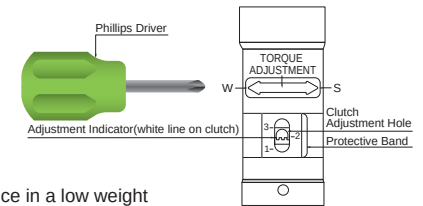
Torque Adjustment

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.

Torque Adjustment



Rear Exhaust

Allows the tool to operate at less than 80 dBA. The piped away exhaust option for further reduces noise.

Forward/Reverse Selector

Allows easy operator adjustment to forward rotation or reverse rotation.

Ergo-Touch Protector

Ergonomically designed Protector offers firm gripping for ergonomic fastening.

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.



SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(85psi)

Model	Bolt Capacity		Max. Torque		Free Speed (about)	Overall Length (about)		Weight less Socket (about)		From Center to Outside (about)		Angle Height (about)		Square Drive Shank		Average Air Consumption		Noise Level
	mm	in	Nm	ft-lbs		mm	in	kg	lb	mm	in	mm	in	mm	in	m³/min	ft³/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	80
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	80
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	80
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	80
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	85
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	85
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	85

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		Max. Torque		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		Noise Level
	mm	in	Nm	ft-lbs		mm	in	kg	lb	mm	in	mm	in	mm	in	m³/min	ft³/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	80
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	80
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	80
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	80
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	85
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	85
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	85

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

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 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.)

UTM-1500 (RA):RACK TYPE



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.

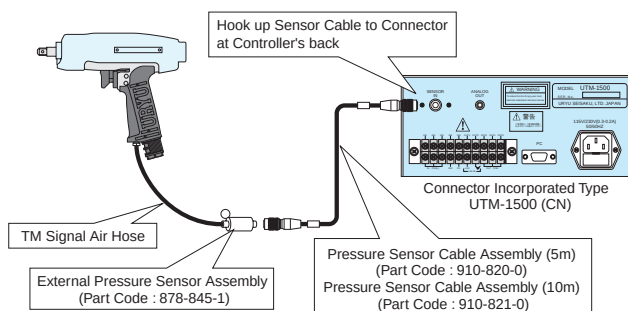
FASTENING COUNTER WITH POKA-YOKE UTM-1500 SERIES (Option)

Tool Connection

Shut-off Tool

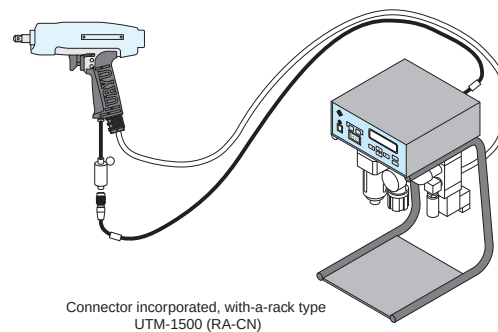
UTM-1500(CN) & External Pressure Sensor Assembly

* 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.

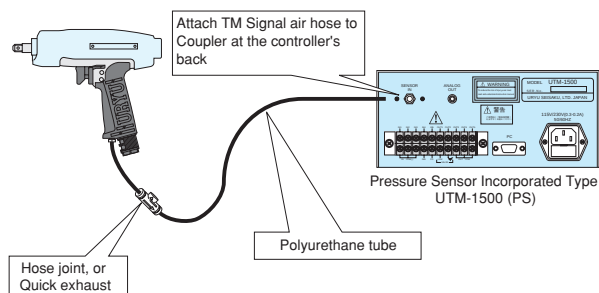


UTM-1500(RA-CN) & External Pressure Sensor Assembly

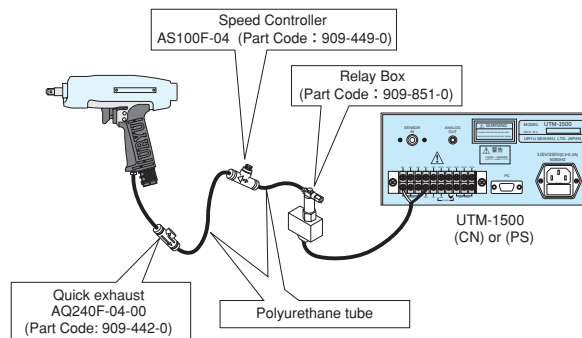
* Same wiring as in the case of UTM-1500(CN) & External Pressure Sensor Assembly (left figure)



UTM-1500 (PS)



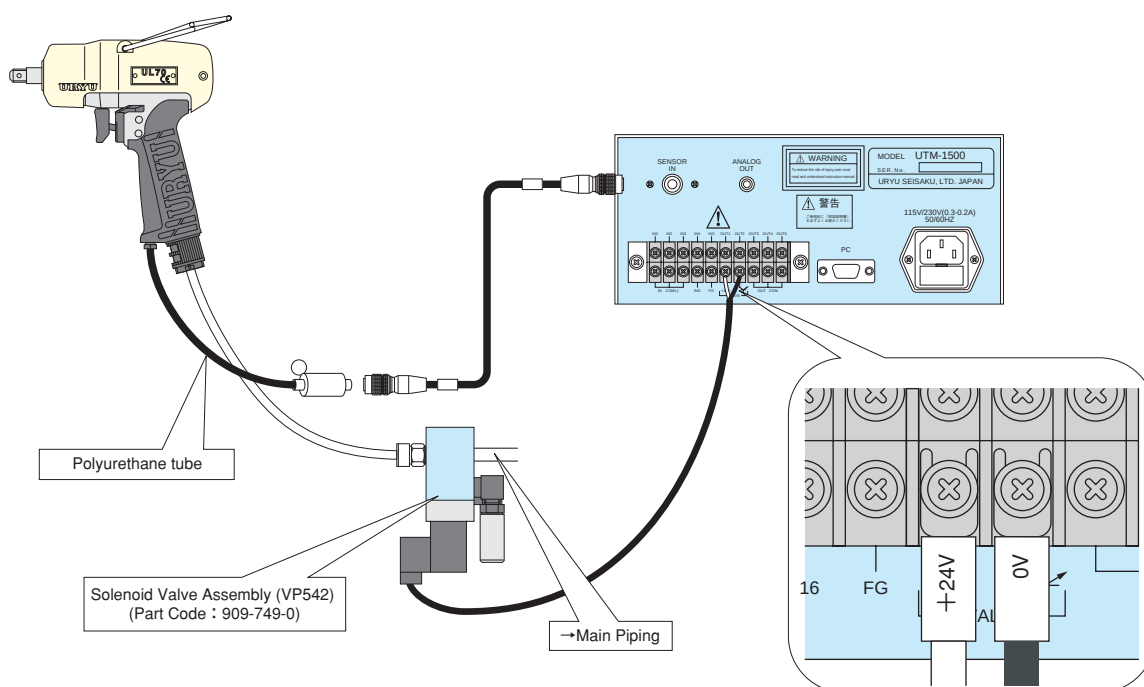
UTM-1500 (PS) or (CN) & Relay Box Assembly



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 ($\phi 4$) from a tool to the connector at the back of the controller.

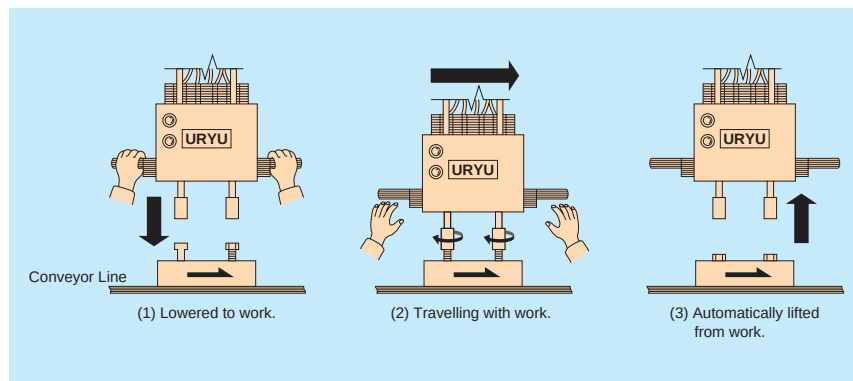
MULTIPLE NUTRUNNERS (ORDER-MADE PRODUCTS EXEMPTED FROM ISO 9001 CERTIFICATION.)

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

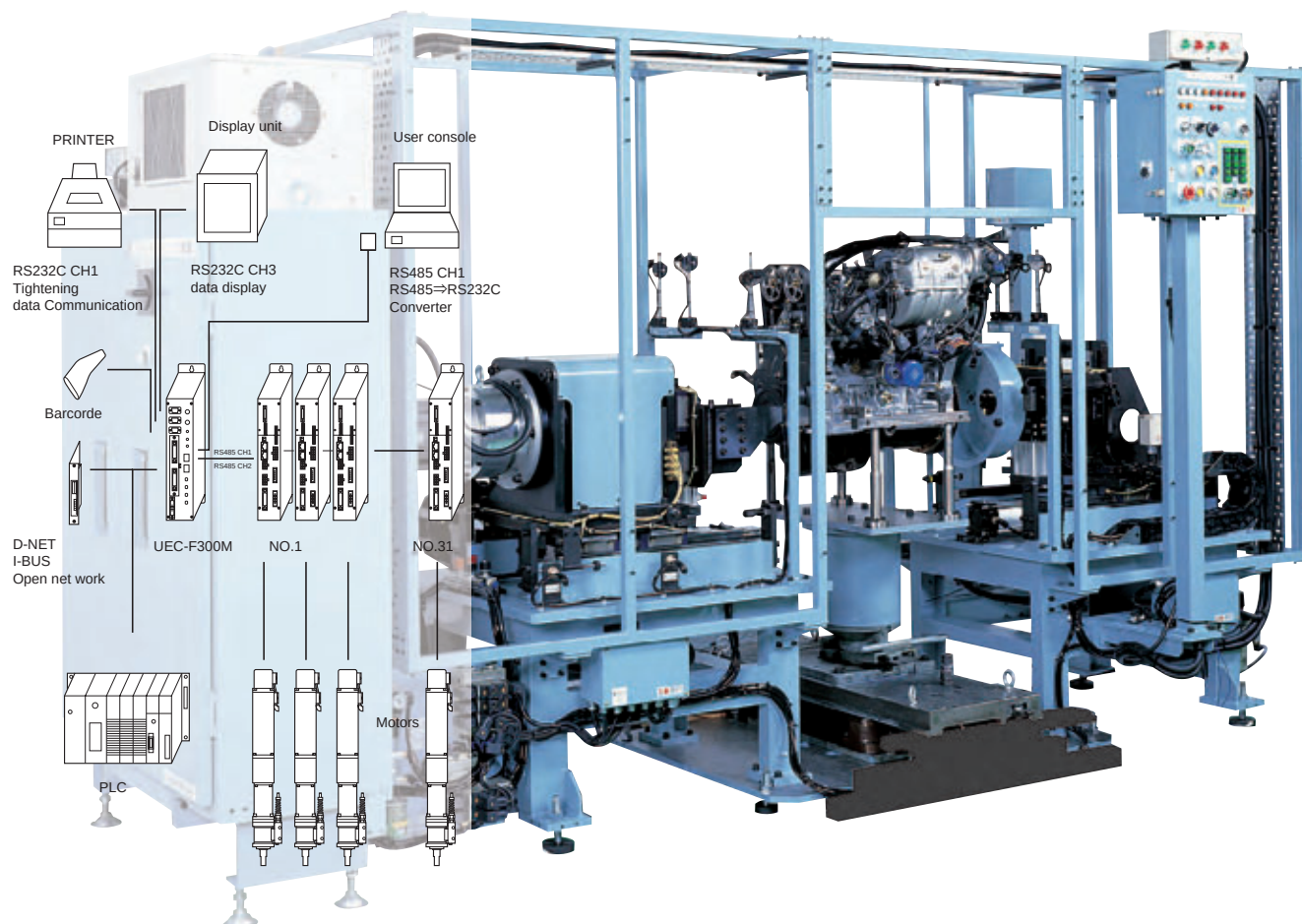
This is the system, called "NAGARA" in Japan, which enables manually-handled multiple nutrunners to make the auto-cycling fastening operation. This system is mainly made up of Air Cylinder, two Spring Balancers and Control Device. After placed on the work flowing on the conveyor line, the multiple nutrunner travels with the work while fastening is going on. Upon completion of fastening operation, the multiple nutrunner is automatically lifted from the work 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. Individual sheet catalogue is available for further information.



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

Pistol Type



Push-Start Type



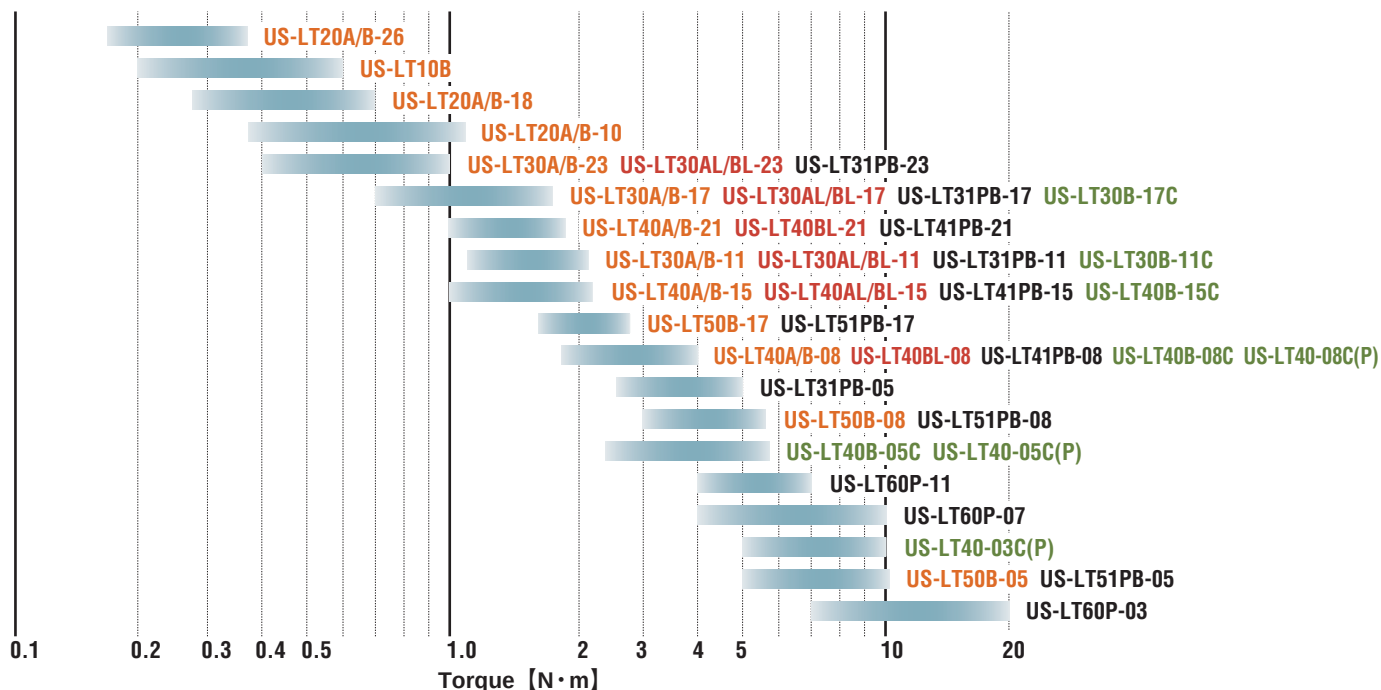
Lever-Start Type



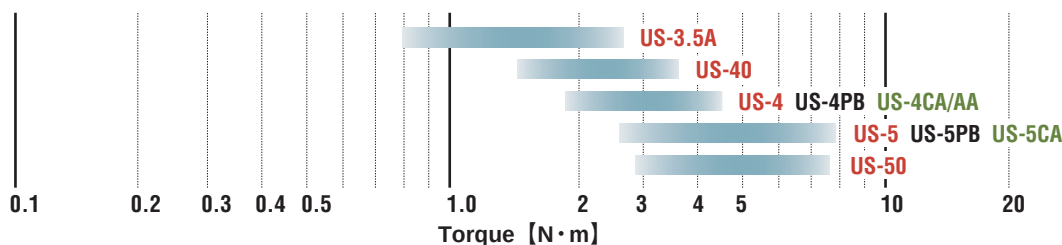
Angle-Head Type



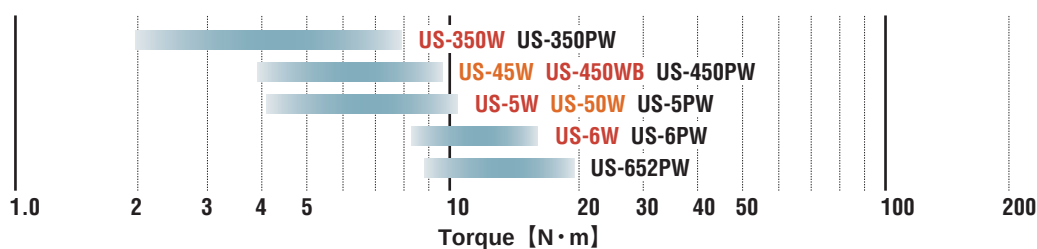
TORQUE-CONTROL TYPE



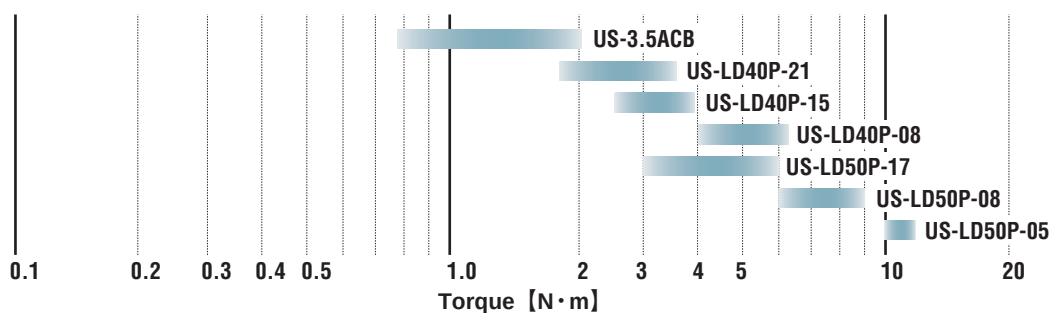
CUSHION CLUTCH TYPE



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.

OIL-PULSE TYPE 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.		
TORQUE-CONTROL TYPE 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.		
IMPACT TYPE Impact type screwdrivers of well-balanced Double-Hammer mechanism deliver tremendously high torque per weight and perform fast operation in driving and removing screws.		
CUSHION CLUTCH TYPE 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.		
DIRECT DRIVE TYPE 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.		

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

SELECTION GUIDE

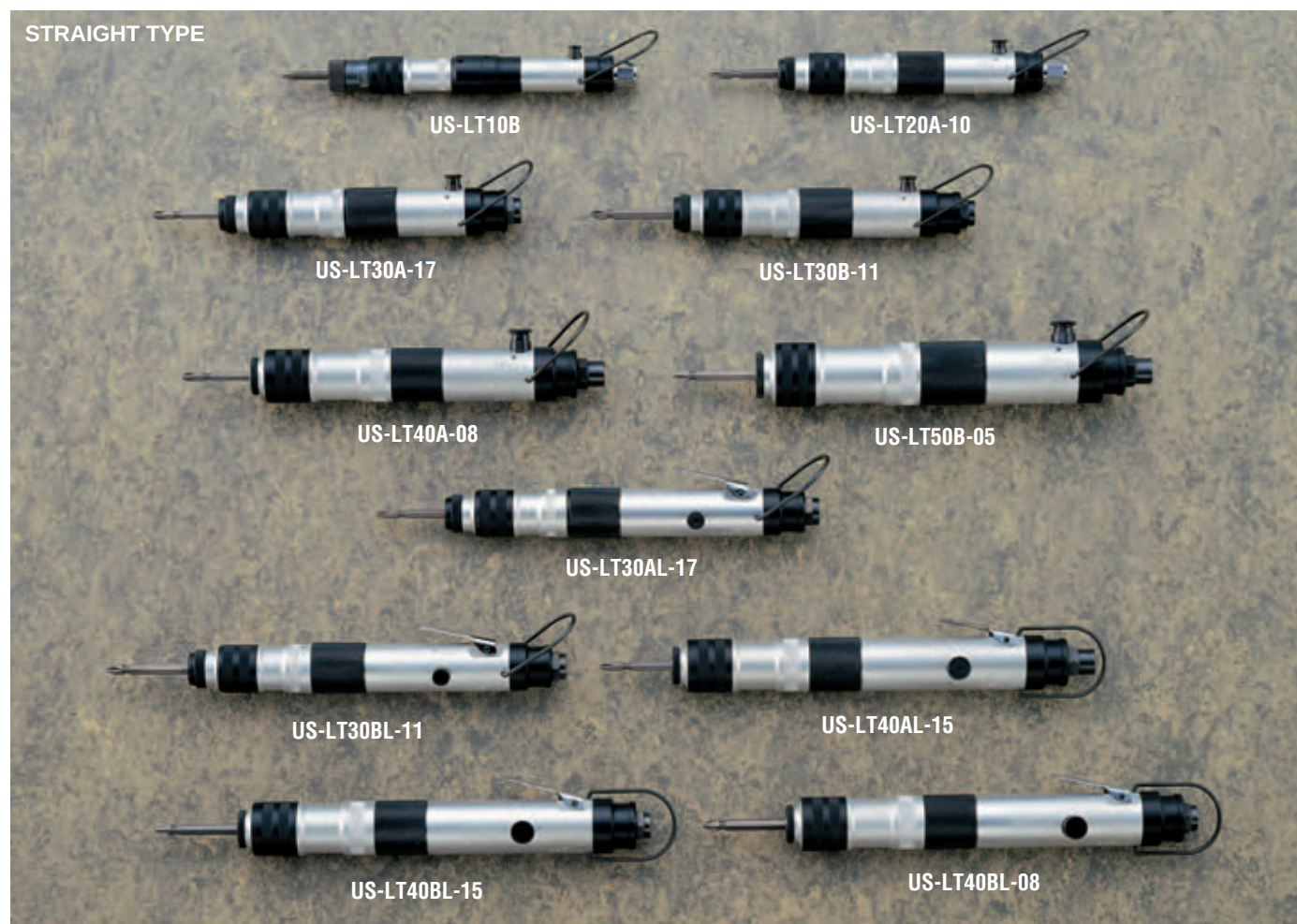
Joint & Torque Curve	Feature	Clutch Type	Model	A	B	C
Free Running Hard Stop 	Turns easily until head seats, then instant resistance to torque build-up.	Oil-Pulse	U,UX & ALPHA	⊙	⊙	○
		Impact	UW & US-○○W	×	○	×
		Torque Control	US-LT series	○	⊙	⊙
		Direct Drive	US-LD series	○	○	○
		Cushion	Other US series	○	○	○
Soft Stop 	Turns easily until head seats, Gradual resistance as material compresses.	Oil-Pulse	U,UX & ALPHA	⊙	⊙	○
		Impact	UW & US-○○W	×	○	×
		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	×	○	×
		Torque Control	US-LT series	×	×	×
		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	×	○	×
		Torque Control	US-LT series	×	×	×
		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	×	×	×
		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	×	×	×
		Torque Control	US-LT series	×	×	×
		Direct Drive	US-LD series	○	⊙	⊙
		Cushion	Other US series	○	○	○

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

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.

STRAIGHT TYPE



SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(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		Noise Level
	mm	in	Nm	in-lbs	rpm	mm	in	kg	lb	mm	in	mm	in	m ³ /min	ft ³ /min	dB(A)
US-LT10B	2.6	7/64	0.20-0.60	1.8-5.3	1000	190	7 31/64	0.29	0.63	12.0	31/64	6.35	1/4	0.15	5.2	75
US-LT20A(B)-26	2.2	3/32	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	71
US-LT20A(B)-18	2.6	7/64	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	70
US-LT20A(B)-10	3	1/8	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	70
US-LT30A(B)-23	3	1/8	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	71
US-LT30A(B)-17	3.5	9/64	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	70
US-LT30A(B)-11	4	5/32	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	70
US-LT40A(B)-21	4	5/32	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	74
US-LT40A(B)-15	4	5/32	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	70
US-LT40A(B)-08	5	13/64	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	70
US-LT50B-17	4-5	5/32-13/64	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	75
US-LT50B-08	5-6	13/64-15/64	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	75
US-LT50B-05	5-6	13/64-15/64	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	74
US-LT30A(B)L-23	3	1/8	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	71
US-LT30A(B)L-17	3.5	9/64	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	70
US-LT30A(B)L-11	3.5	9/64	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	70
US-LT40BL-21	4	5/32	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	74
US-LT40A(B)L-15	4	5/32	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	70
US-LT40BL-08	5	3/16	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	70

Air Inlet Size : NPT1/4"

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-11(P) when ordering.



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

SPECIFICATIONS

Recommended Air Pressure: 0.6MPa(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		Noise Level
	mm	in	Nm	in-lbs	rpm	mm	in	kg	lb	mm	in	mm	in	m ³ /min	ft ³ /min	dB(A)
US-LT31PB-23	2.6	7/64	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	70
US-LT31PB-17	2.2	3/32	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	70
US-LT31PB-11	2.6	7/64	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	70
US-LT31PB-05	3	1/8	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	70
US-LT41PB-21	3	1/8	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	74
US-LT41PB-15	3.5	9/64	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	70
US-LT41PB-08	4	5/32	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	70
US-LT51PB-17	4	5/32	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	75
US-LT51PB-08	4	5/32	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	75
US-LT51PB-05	5	13/64	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	74
US-LT60P-11	4-5	5/32-13/64	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	77
US-LT60P-07	5-6	13/64-15/64	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	76
US-LT60P-03	5-6	13/64-15/64	7.00-20.0	61.6-176	320	230	9 29/64	1.70	3.74	22.0	57/64	9.50	3/8	0.60	21.0	75

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

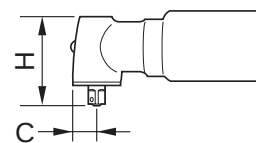
ANGLE TYPE

US-LT30B-11C

US-LT40B-05C

US-LT40-03C(P)

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: 0.6MPa(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		Noise Level
	mm	in	Nm	in-lbs	rpm	mm	in	kg	lb	mm	in	mm	in	m³/min	ft³/min	dB(A)
US-LT30B-17C	2.6	7/64	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	73
US-LT30B-11C	2.2	3/32	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	73
US-LT40B-15C	2.6	7/64	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	75
US-LT40B-08C	3	1/8	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	75
US-LT40B-05C	3	1/8	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	75
US-LT40-08C(P)	3.5	9/64	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	75
US-LT40-05C(P)	4	5/32	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	75
US-LT40-03C(P)	4	5/32	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	72

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
		● Yellow	0.15-0.35	1.32-3.08	0.20-0.34	1.76-2.99	976-430-0
US-LT20B-18	● Red		0.25-0.70	2.2-6.16	0.34-0.67	3.0-5.9	976-431-0
		● Yellow	0.15-0.35	1.32-3.08	0.29-0.34	2.55-2.99	976-430-0
US-LT20B-26	● 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

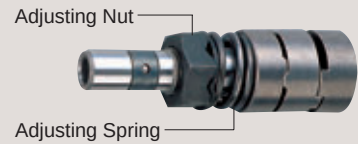
CUSHION CLUTCH SCREWDRIVERS

STRAIGHT TYPE

US-3.5A

US-4

US-5



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

Weak

Medium

Strong

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

SPECIFICATIONS

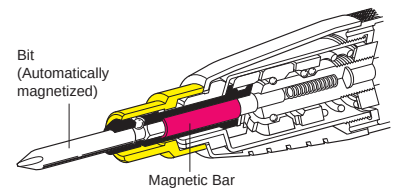
Recommended Air Pressure: 0.4MPa(57psi)

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		Noise Level
	mm	in		mm	in	kg	lb	mm	in	mm	in	mm	in	m ³ /min	ft ³ /min	
US-3.5A	M4	5/32	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	75
US-3.5B	M4	5/32	2000	214	8 27/54	0.63	1.39	17.0	43/64	6.35	1/4	6.35	1/4	0.20	7.0	75
US-4	M4	5/32	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	75
US-5	M5	3/16	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	75

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		Noise Level
	mm	in		mm	in	kg	lb	mm	in	mm	in	mm	in	m ³ /min	ft ³ /min	
US-3.5MA	M4	5/32	2000	198	7 3/32	0.65	0.68	17.0	33/64	6.35	1/4	6.35	1/4	0.20	7.0	75

Air Inlet Size : NPT1/4"

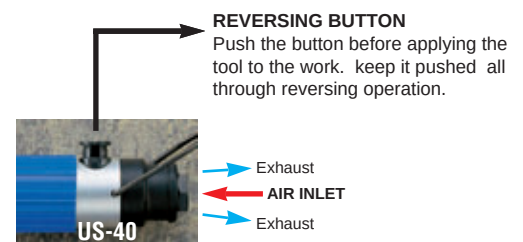
PUSH-TO-START THROTTLE TYPE

US-40

US-50

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		Noise Level
	mm	in		mm	in	kg	lb	mm	in	mm	in	mm	in	m ³ /min	ft ³ /min	
US-40	M4	5/32	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	70
US-50	M5	3/16	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	76

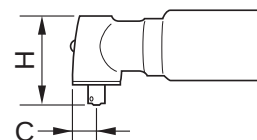
Air Inlet Size : NPT1/4"

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		Noise Level
	mm	in	rpm	mm	in	kg	lb	mm	in	in	mm	in	m³/min	ft³/min	dB(A)
US-3.5PB	M4	5/32	2000	200	7 7/8	0.75	1.65	17.0	43/64	NPT1/4	6.35	1/4	0.20	7.0	75
US-4PB	M4	5/32	1400	223	8 25/32	1.15	2.53	20.0	49/64	NPT1/4	5.00	13/64	0.20	7.0	75
US-5PB	M5	3/16	1400	236	9 19/64	1.30	2.86	21.0	33/64	NPT1/4	6.35	1/4	0.20	7.0	75
*US-3.5ACB	M4	5/32	2000	236	9 19/64	0.65	1.43	10.0	25/64	NPT1/4	6.35	1/4	0.20	7.0	85
US-4CA	M4	5/32	1400	225	8 7/8	1.10	2.24	12.0	29/64	NPT1/4	6.35	1/4	0.30	10.7	85
US-5CA	M5	3/16	500	198	7 3/32	1.40	3.08	12.0	29/64	NPT1/4	6.35	1/4	0.30	10.7	85

*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.

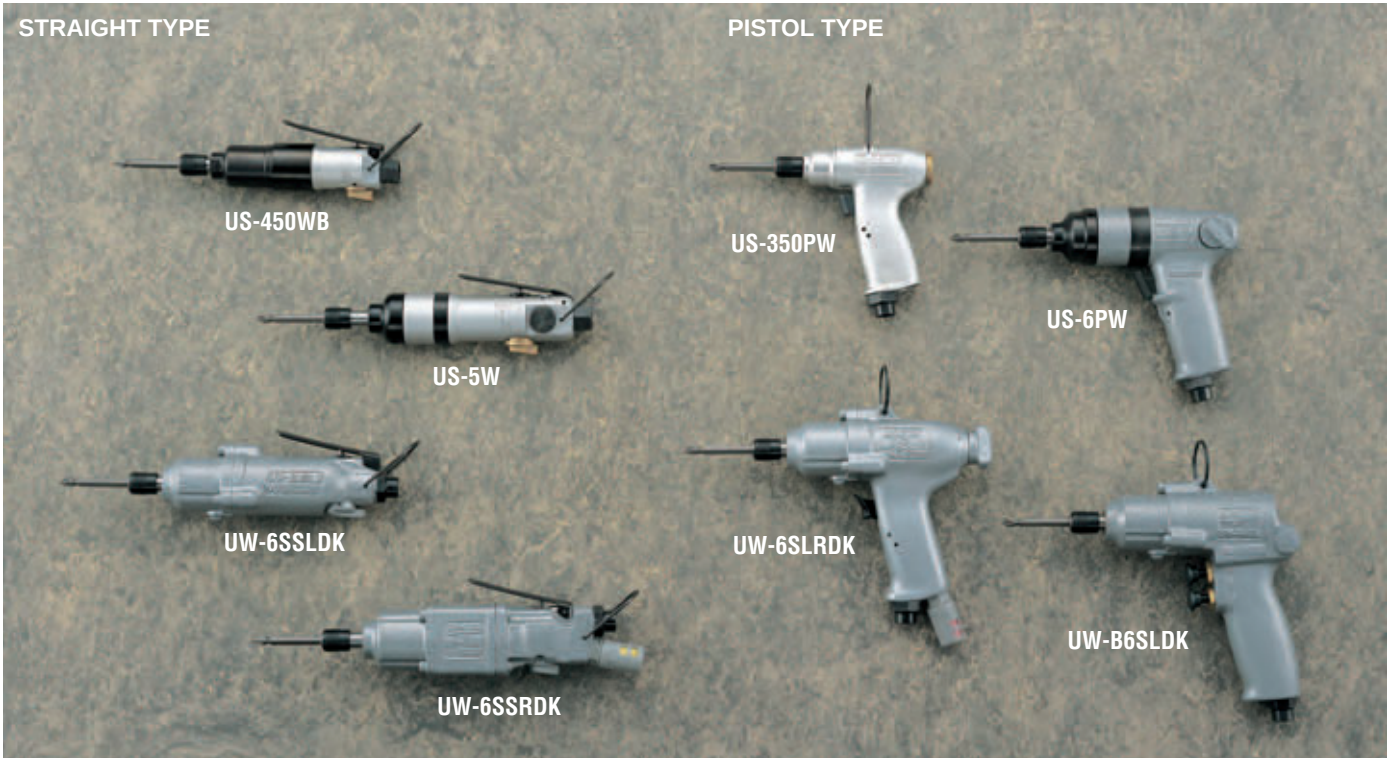
SPECIFICATIONS

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		Noise Level
			Soft Joint		Hard Joint											
	mm	in	Nm	ft-lbs	Nm	ft-lbs	rpm	mm	in	kg	lb	mm	in	m³/min	ft³/min	dB(A)
US-LD40P-21	M4	5/32	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	74
US-LD40P-15	M4	5/32	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	70
US-LD40P-08	M5	3/16	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	70
US-LD50P-17	M4	5/32	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	75
US-LD50P-08	M5	3/16	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	75
US-LD50P-05	M5	3/16	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	74

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.)	Overall Length (about)		Weight Less Bit (about)		From Center to Outside (about)		Hex. Size of Bit		Air Hose Size (inside Dia)		Average Air Consumption		Noise Level	Recommended Air Pressure	
	mm	in		mm	in	kg	lb	mm	in	mm	in	mm	in	m³/min	ft³/min		Mpa	psi
US-350W	M4	5/32	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	80	0.4	57
US-450WB	M5	3/16	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	80	0.4	57
US-45W	M5	3/16	12000	193	7 19/32	0.50	1.10	17.0	43/64	6.35	1/4	6.35	1/4	0.20	7.0	80	0.4	57
US-5W	M5	3/16	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	85	0.4	57
US-6W	M6	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	85	0.4	57
UW-6SSLRDK	M6	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	90	0.6	85
UW-6SSRDK	M6	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	90	0.6	85
UW-6SSHRDK	M8	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	91	0.6	85
UW-6SSLDK	M6	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	91	0.6	85
UW-6SSDK	M6	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	91	0.6	85
UW-6SSHDK	M8	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	92	0.6	85

Air Inlet Size : NPT1/4"

SPECIFICATIONS (PISTOL TYPE)

Model	Capacity (Screw Size)		Free Speed (Approx.)	Overall Length (about)		Weight Less Bit (about)		From Center to Outside (about)		Hex. Size of Bit		Air Hose Size (inside Dia)		Average Air Consumption		Noise Level	Recommended Air Pressure	
	mm	in		mm	in	kg	lb	mm	in	mm	in	mm	in	m³/min	ft³/min		Mpa	psi
US-350PW	M4	5/32	16000	121	4 49/64	0.53	1.16	17.0	43/64	6.35	1/4	6.35	1/4	0.20	7.0	81	0.4	57
US-450PW	M5	3/16	11000	149	5 55/64	0.75	1.65	17.0	43/64	6.35	1/4	6.35	1/4	0.20	7.0	79	0.4	57
US-5PW	M5	3/16	9500	173	6 13/16	0.95	2.10	20.0	25/32	6.35	1/4	6.35	1/4	0.30	10.5	85	0.4	57
US-6PW	M6	15/64	10000	170	6 45/64	1.00	2.20	23.0	57/64	6.35	1/4	6.35	1/4	0.30	10.5	85	0.4	57
US-652PW	M6	15/64	9300	155	6 7/64	0.85	1.87	23.0	15/16	6.35	1/4	6.35	1/4	0.25	8.8	79	0.4	57
UW-6SLRDK	M6	1/4	8500	169	6 21/32	0.97	2.13	31.0	1 7/32	6.35	1/4	9.5	3/8	0.30	10.5	91	0.6	85
UW-6SHBRDK	M8	5/16	7300	153	6 1/32	1.36	2.99	28.0	1 7/64	6.35	1/4	9.5	3/8	0.35	12.4	91	0.6	85
UW-6SLDK	M6	1/4	8500	165	6 1/2	0.97	2.13	31.0	1 7/32	6.35	1/4	9.5	3/8	0.30	10.5	92	0.6	85
UW-B6SLDK	M6	1/4	8500	170	6 45/64	1.00	2.20	31.0	1 7/32	6.35	1/4	9.5	3/8	0.30	10.5	92	0.6	85
UW-6SDK	M6	1/4	7500	160	6 5/16	1.22	2.68	27.5	1 5/64	6.35	1/4	9.5	3/8	0.30	10.5	93	0.6	85
UW-6SADK	M6	1/4	7500	160	6 5/16	1.10	2.47	27.5	1 5/64	6.35	1/4	9.5	3/8	0.30	10.5	93	0.6	85
UW-6SHDK	M8	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	92	0.6	85

Air Inlet Size : NPT1/4"

OIL-PULSE TYPE SCREWDRIVERS

STRAIGHT TYPE

PISTOL TYPE



SPECIFICATIONS (STRAIGHT TYPE)

Recommended Air Pressure:0.6MPa(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 Die)		Average Air Consumption		Noise Level
	mm	in	Nm	ft-lbs	rpm	mm	in	kg	lb	mm	in	m ³ /min	ft ³ /min	dB(A)	m/sec ²	dB(A)
U-310SD	M3-4	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	68
U-350SD	M3-4	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	74
U-410SD	M4-5	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	91
UX-450SD	M5	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	67
UX-500SD	M5-6	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	70
UX-612SD	M6-8	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	77
UX-700SD	M8	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	79
UL30SD	M5	13/64	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	75
UL40SD	M5-6	13/64-1/4	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	75
UL50SD	M6-8	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	78
UL60SD	M8	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	80

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

SPECIFICATIONS (PISTOL TYPE)

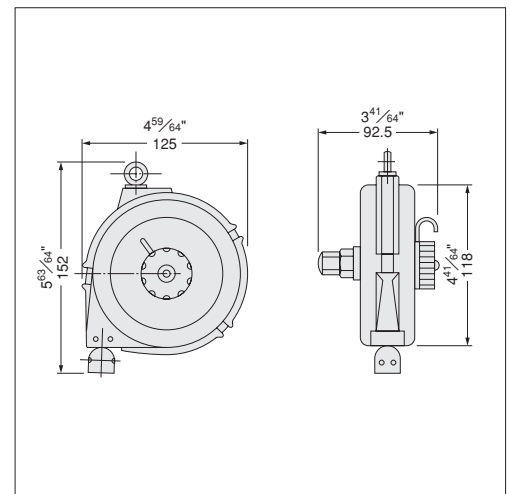
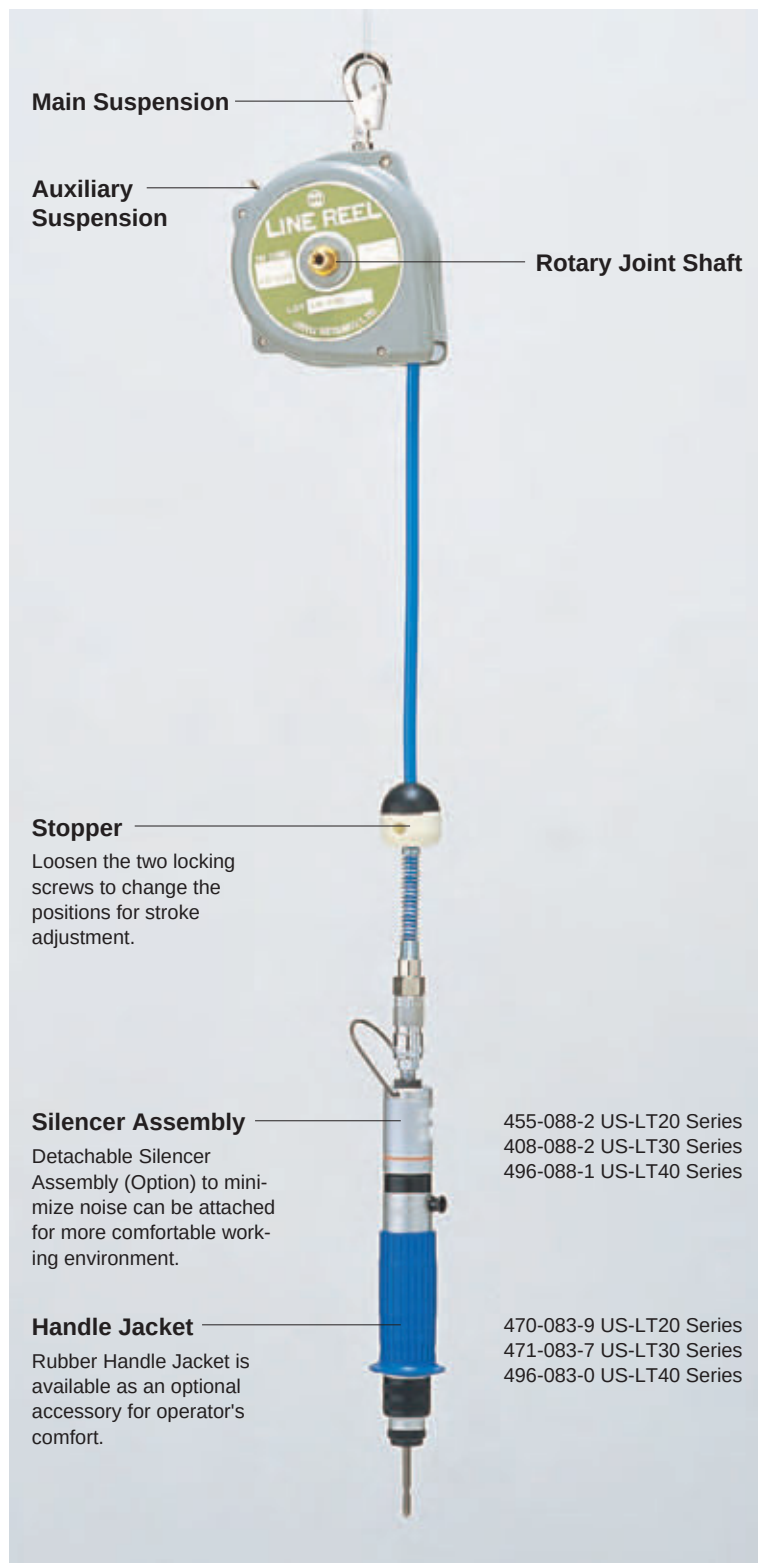
Recommended Air Pressure:0.6MPa(85psi)

Model	Capacity (Screw Size)		Torque Range		Free Speed (Approx.)	Overall Length (about)		Weight Less Bit (about)		From Center to Outside (about)		Air Hose Size (inside Die)		Average Air Consumption		Noise Level
	mm	in	Nm	ft-lbs	rpm	mm	in	kg	lb	mm	in	m ³ /min	ft ³ /min	dB(A)	m/sec ²	dB(A)
U-350D	M3-4	No.8	3.5-5.8	2.6-4.3	11500	155	6 3/32	0.76	1.60	22.0	7/8	6.35	1/4	0.15	5.3	74
U-410D	M4-5	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	70
UX-450D	M5	No.10	8.0-14.0	5.9-10.4	9500	151	5 15/16	0.85	1.90	22.0	7/8	6.35	1/4	0.20	7.0	75
UX-500D	M5-6	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	70
UX-612D	M6-8	1/4-5/16	16.0-28.0	11.8-20.7	9300	164	6 29/64	0.95	2.10	23.0	29/32	6.35	1/4	0.30	10.5	75
UX-700D	M8	5/16	20.0-36.0	14.8-26.6	9000	171	6 47/64	1.38	3.00	26.0	1.00	6.35	1/4	0.35	12.3	75
UL30D	M5	No.10	6.0-12.0	4.4-8.9	5700	135	5 5/16	0.70	1.5	20.5	13/16	6.35	1/4	0.20	7.0	75
UL40D	M5-6	No.10-1/4	11.0-20.0	8.1-14.8	6100	135	5 5/16	0.70	1.5	20.5	13/16	6.35	1/4	0.20	7.0	75
UL50D	M6-8	1/4-5/16	18.0-28.0	13.3-20.7	6500	144	5 43/64	0.77	1.7	22.0	55/64	6.35	1/4	0.30	10.5	78
UL60D	M8	3/8	22.0-35.0	16.3-25.9	6700	142	5 19/32	0.82	1.8	22.0	55/64	8.0	5/16	0.40	14.0	80

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

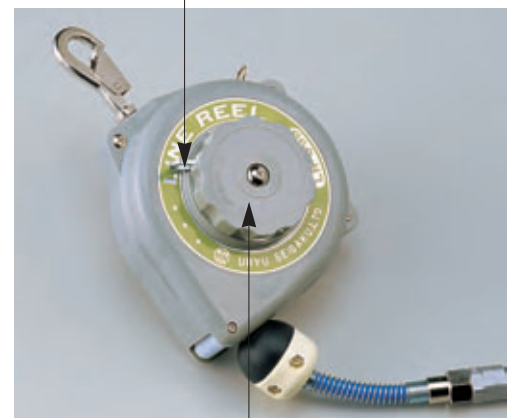
AIR HOSE BALANCER

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.



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	$13/64 \times 21/64 \times 78 47/64$	1.89	0.86	700	$27 9/16$	1	142

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	A-2	70	2 3/4	916-700-0	70	2 3/4	916-710-0	70	2 3/4	916-710-0
		100	3 15/16	916-701-0	100	3 15/16	916-711-0	100	3 15/16	916-793-0
		120	4 23/32	916-704-0	120	4 23/32	916-714-0	125	4 59/64	916-794-0
		150	5 29/32	916-702-0	150	5 29/32	916-712-0			
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	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
		120	4 23/32	916-804-0	120	4 23/32	916-814-0	120	4 23/32	916-824-0
		150	5 29/32	916-802-0	150	5 29/32	916-812-0	150	4 29/32	916-822-0
C		Phillips No.0								
		50	1 31/32	916-135-0						
		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
		40	1 37/64	916-540-0						
E		23	1 37/64	916-500-0	23	29/32	916-510-0	23	29/32	916-520-0
		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.

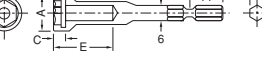
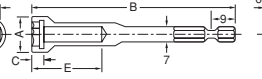
Suffix the code number of required bit with following identification letter : C (54-58HRC) is standard, A (46-50 HRC), B (50-54 HRC), D (58-62 HRC) and E (over 62 HRC)

* 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 1/4	916-020-0	For group B-1	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	For group C-1	23	29/32	917-400-0	For group C-2	917-350-0
		75	2 61/64	916-031-0						
		100	3 15/16	916-032-0						
		150	5 29/32	916-033-0						
C		49.2	1 15/16	916-084-0		16	5/8	917-031-0	-	-

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
		M5	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
		M4	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
		M5	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		M6	18.0	45/64	100	3 15/16	4.5	11/64	11.0	7/16	30	1 13/16	918-220-0
		M4	11.0	7/16	28	17/64	3.2	1/8	7.0	9/32	7	9/32	918-304-0
		M5	12.0	15/32	28	17/64	4.5	11/54	8.0	5/16	7	5/16	918-305-0
		M6	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
MIGET GRINDERS
MINI ANGLE GRINDERS
HORIZONTAL GRINDERS
ANGLE GRINDERS
VERTICAL GRINDERS
SANDERS
POLISHERS
ORBITAL SANDERS

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

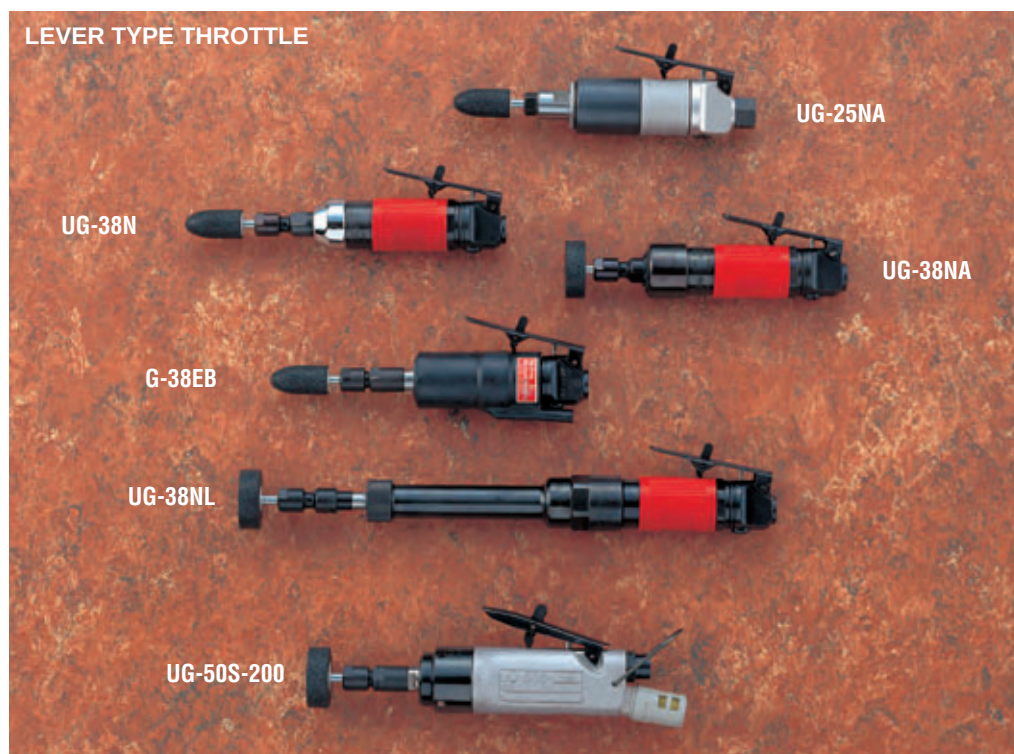


* Sound Level measured to ISO 15744

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



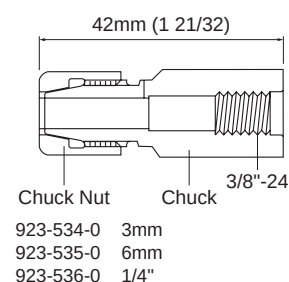
Self-Locking Lever attachment

To prevent accidental start of motor.



COLLET CHUCKS

G-38EB & UG-50S-200



SPECIFICATIONS

Recommended Air Pressure : 0.6MPa (85psi)

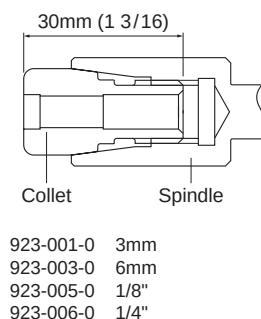
Model	Collet Chuck Size		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Weight less wheel (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption		Noise Level
	mm	in	rpm	w	mm	in	kg	lb	in	mm	in	m³/min	ft³/min	dB(A)
UG-25NA	6	1/4	25000	210	153	6 1/32	0.53	1.17	NPT1/4	9.5	3/8	0.3	10.7	82
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	85
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	85
UG-38NA	6	1/4	20000	315	165	6 1/2	0.65	1.43	NPT1/4	9.5	3/8	0.4	14.0	75
UG-38NL	6	1/4	25000	315	330	13	0.92	2.02	NPT1/4	9.5	3/8	0.3	10.7	85
UG-50S-200	6	1/4	20000	195	198	7 51/64	0.60	1.32	NPT1/4	9.5	3/8	0.4	14.0	73

ROLL TYPE THROTTLE

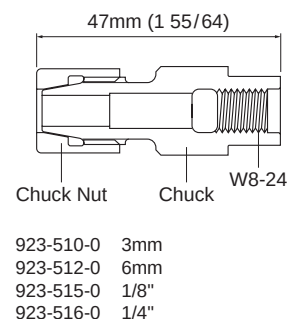


COLLET CHUCKS

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



UG-38N Series



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		Noise Level
	mm	in	rpm	w	mm	in	kg	lb	in	mm	in	m³/min	ft³/min	dB(A)
UG-25NSA	6	1/4	25000	210	145	5 23/32	0.56	1.23	NPT1/4	9.5	3/8	0.3	10.7	82
UG-38NS	6	1/4	25000	315	168	6 5/8	0.60	1.32	NPT1/4	9.5	3/8	0.3	10.7	85
UG-38NSA	6	1/4	22000	315	174	6 54/64	0.65	1.43	NPT1/4	9.5	3/8	0.3	10.7	75
UG-38NSL	6	1/4	25000	315	340	13 25/64	0.95	2.09	NPT1/4	9.5	3/8	0.3	10.7	85

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 pre-cise grinding and polishing for die making.

SUPER SPEED MIDGET GRINDER

UMG-450

HEAVY DUTY DIE GRINDER

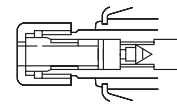
UG-45H



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		Noise Level
	mm	in	rpm	w	mm	in	kg	lb	in	mm	in	m³/min	ft³/min	dB(A)
UMG-450	3	1/8	45000	37	145	5 45/64	0.19	0.42	NPT1/4	4.8	3/16	0.2	7.0	75
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	76

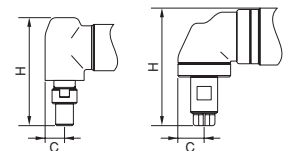
MINI ANGLE GRINDERS

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

MINI ANGLE GRINDERS

UG-20A-200

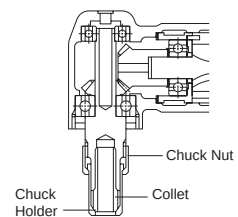
UG-50S-200A



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)

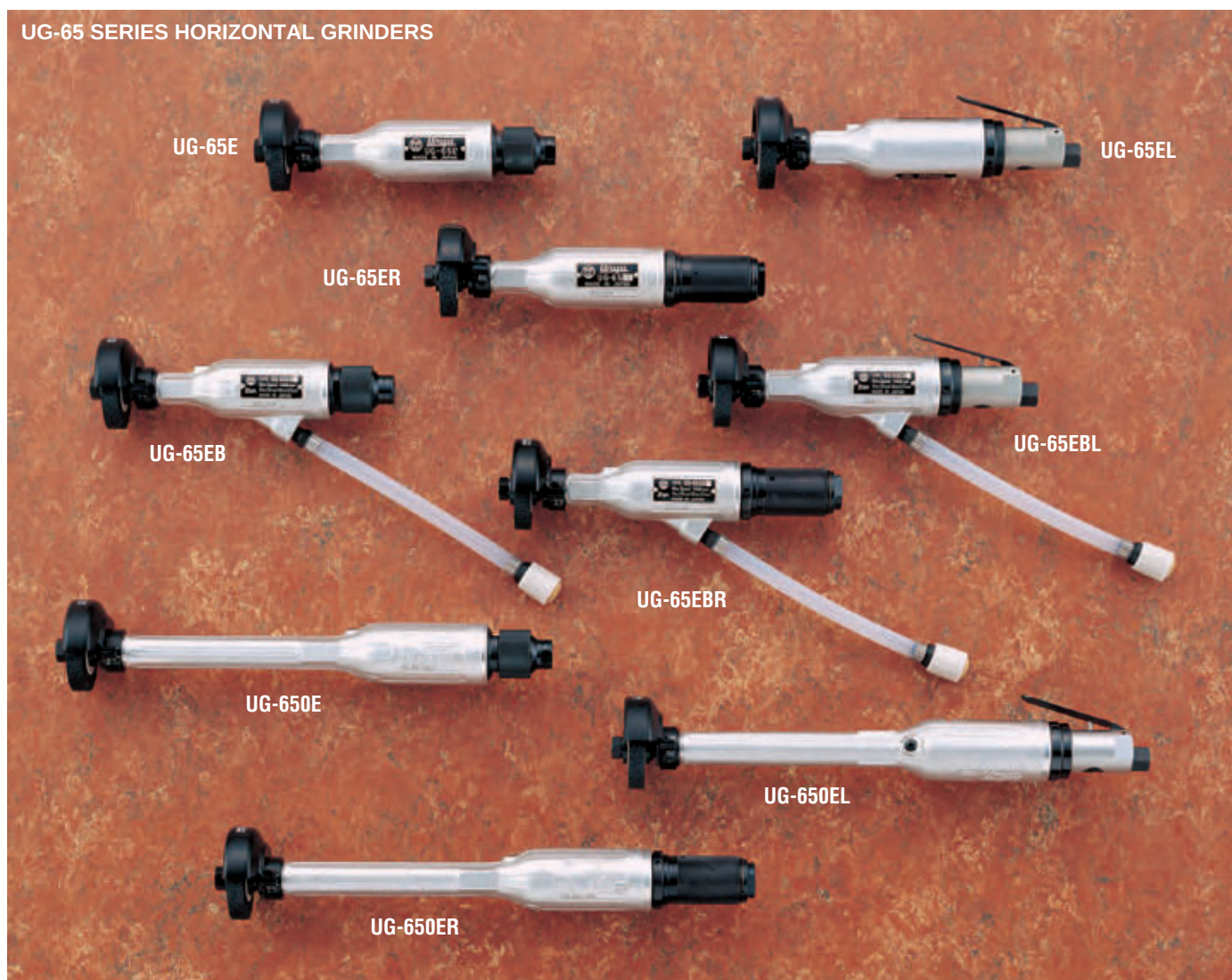
Model	Collet Chuck Size		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Weight less wheel (about)		Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption		Noise Level
	mm	in	rpm	w	mm	in	kg	lb	in	mm	in	m³/min	ft³/min	dB(A)
UG-20A-200	6	1/4	20000	113	131	5 3/16	0.50	1.10	NPT1/4	9.5	3/8	0.3	10.7	75
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	76
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	75

HORIZONTAL GRINDERS

LIGHT TYPE UG-65 SERIES (NON-GOVERNED)

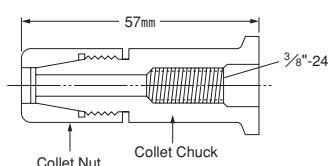
Available in 9 models with three different throttle handles, these lightweight and compact grinders are generally used in all metal working industries for every grinding and polishing job.

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		Noise Level
			mm	in	rpm	w	mm	in	kg	lb	in	mm	in	m ³ /min	ft ³ /min	
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	88
	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	85
	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	85
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	95
	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	95
	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	95
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	85
	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	85
	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	85

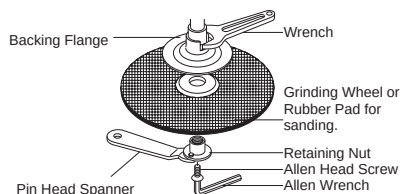
* Speed without silencer

ANGLE GRINDERS

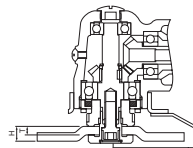
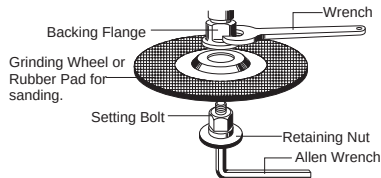
These handy angle grinders are ideally suited for close-quarter work with less operator fatigue.

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



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		Noise Level
	mm	in			mm	in	mm	in	kg	lb			mm	in	m³/min	ft³/min	
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	80
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	80
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	80
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	80
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	80
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	80
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	80
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	80
AG-100S(OUT)	100	4	13500	315	179	6 57/64	68	2 43/64	1.00	2.20	OUT	NPT1/4	9.5	3/8	0.50	18.0	80
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	80
USG-4S	100	4	13500	450	232	9 9/64	94	3 45/64	1.65	3.60	IN	NPT1/4	9.5	3/8	0.60	22.0	80
USG-7S	180	7	7600	962	296	11 21/32	120	4 47/54	3.00	6.60	IN	NPT3/8	12.7	1/2	1.30	46.0	85
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	85

VERTICAL GRINDERS

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

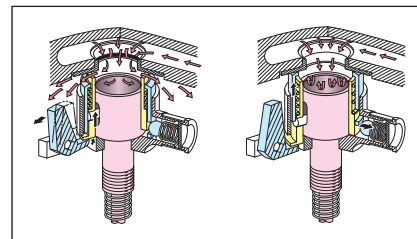
USG series * These gear-less vertical grinders of simple non-governed design offer powerful and trouble free operation.

150mm(6") ~ 230mm(9") Type

VG series * VG grinder can be converted into another type of VG by changing wheel guard and spring tension of speed governor.

* Simple design with one-piece housing.

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 (Patente P.)

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		Noise Level
	mm	in			mm	in	mm	in	kg	lb			mm	in	m ³ /min	ft ³ /min	
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	88
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	88
VG6-45	150	6	4500	2250	-	-	196	7 23/32	4.60	10.10	OUT	NPT1/2	19.0	3/4	2.20	77.7	89
VG6-59	150	6	5900	2250	-	-	196	7 23/32	4.60	10.10	OUT	NPT1/2	19.0	3/4	2.20	77.7	89
VG7-59	180	7	5900	2250	-	-	179	7 3/64	4.30	9.50	OUT	NPT1/2	19.0	3/4	2.30	81.0	89
VG7-76	180	7	7600	2250	-	-	179	7 3/64	4.30	9.50	OUT	NPT1/2	19.0	3/4	2.30	81.0	89
VG9-59	230	9	5900	2250	-	-	179	7 3/64	4.60	10.10	OUT	NPT1/2	19.0	3/4	2.30	81.0	87
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	78
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	78
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	78
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	78
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	78
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	82

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 :-

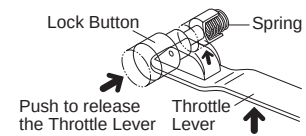
- Non-friction Speed Governor for most efficient grinding performance.
- Unique spring-loaded Exhaust Valve for noise-less trouble free operation.
- Vibration absorbent Dead Handle for less Operator fatigue.

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.

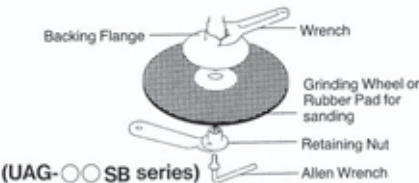


ROLL TYPE THROTTLE HANDLE

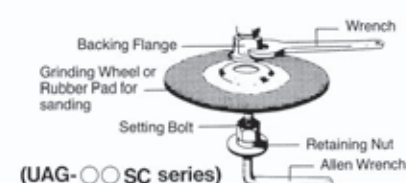


UAG-○○SB series
UAG-○○SC series

"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

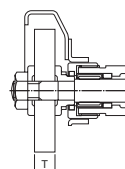
Recommended Air Pressure: 0.6MPa (85psi)

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		Noise Level
	mm	in	rpm	w	mm	in	mm	in	kg	lb		in	mm	in	m³/min	ft³/min	dB(A)
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	84
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	84
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	84
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	84
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	82
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	82
UAG-50SB-120	125	5	12000	712	246	9 11/16	76	3	1.6	3.5	OUT	NPT1/4	9.5	3/8	0.95	34.0	82
UAG-50SC-120	125	5	12000	712	246	9 11/16	76	3	1.6	3.5	IN	NPT1/4	9.5	3/8	0.95	34.0	82
UAG-50SB-109	125	5	10900	712	246	9 11/16	76	3	1.6	3.5	OUT	NPT1/4	9.5	3/8	0.95	34.0	82
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	82
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	83
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	83
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	83
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	83
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	88

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 and Roll type Throttle Handles are recommended for safer operation.



WHEEL SIZE

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

HEAVY-DUTY HORIZONTAL GRINDERS (GOVERNED)

UG-1250L-72



UG-1250-72



UG-1500L-60



UG-1500-60



UG-2000L-45



SPECIFICATIONS

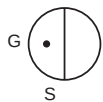
Recommended Air Pressure: 0.6MPa (85psi)

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		Noise Level
	mm	in	rpm	w	mm	in	kg	lb			mm	in	m³/min	ft³/min	
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	88
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	88
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	88
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	88
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	88
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	88
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	90
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	90

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

SANDERS, POLISHERS & ORBITAL SANDERS

AG-180W



Standard type
Self-suction type

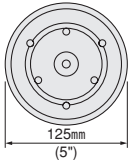
* Two different speeds available: 4,500rpm for sanding and polishing and 7,000rpm for grinding. AG-180W comes with sanding/polishing speed setting 4,500rpm with relevant accessories as standard. AG-180W can be converted into grinder model by changing speed regulator to G position and mounting wheel guard.

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

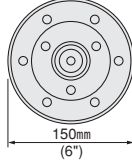
* As well as being the same well-balanced orbital action, following UP-15N, UP-25NB and UP-26NB have built-in type direct sanded-residue suction device. Sanded residue is sucked directly through the holes of the pads and corresponding holed sanding papers, keeping working environment clean.

* 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



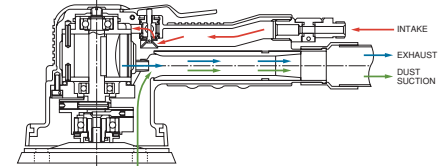
HOLED PAD



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



Cut view of UP-25NB



SANDERS / POLISHERS



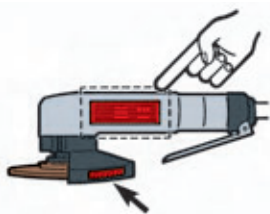
SPECIFICATIONS

Recommended Air Pressure: 0.6MPa (85psi)

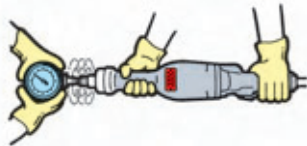
Model	Capacity (Wheel size)		Max.Free Speed (about)	Rated Horse Power	Overall Length (about)		Overall Height (about)		Weight less wheel (about)		Spindle Size	Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption		Noise Level
	mm	in	rpm	w	mm	in	mm	in	kg	lb	in	in	mm	in	m³/min	ft³/min	
USG-45P	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	81
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	86
UP-80-15	180	7	1500	337	-	-	170	6 11/16	1.80	3.96	5/8-11	NPT1/4	9.5	3/8	0.80	28.0	82
UP-80-40	180	7	4000	337	-	-	164	6 15/32	1.80	3.96	5/8-11	NPT1/4	9.5	3/8	0.80	28.0	84
UP-80-60	160	6 3/8	6000	337	-	-	170	6 7/8	1.80	3.96	5/8-11	NPT1/4	9.5	3/8	0.80	28.0	85
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	87
UP-25DB	125	5	9000	262	212	8 11/32	120	4 3/4	1.70	3.74	-	NPT1/4	6.35	1/4	0.20	7.0	73
UP-26DB	150	6	8000	225	212	8 11/32	120	4 3/4	1.78	3.92	-	NPT1/4	6.35	1/4	0.20	7.0	74
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	94
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	97
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	98

[WARNING FOR SAFETY USE]

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



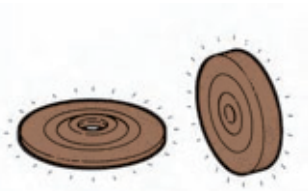
1) Before mounting to the Grinder, make sure that the Grinding Wheels or other Abrasives are of suitable size, shape, quality and strength to the rated speed (RPM) stamped on the name plate or tool housing.



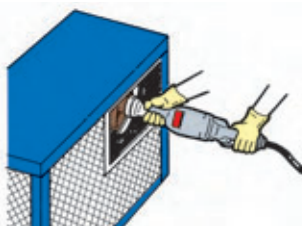
2) The Wheel Spindle speed should be regularly checked with a tachometer to make sure whether normal speed is maintained. The governed grinders must be checked to be sure governor mechanism is functioning properly.



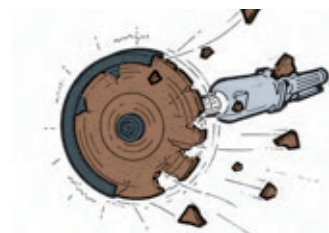
3) Make sure before operation that the abrasive Wheel should be mounted carefully and sufficiently with flanges and nuts of proper size and shape by use of the Spanners.



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.

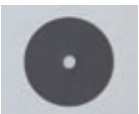


5) Before installing a grinding Wheel, after all Grinders repair and whenever the Grinder is issued for use, test run the Grinder by a competent person for a while under a protected area.

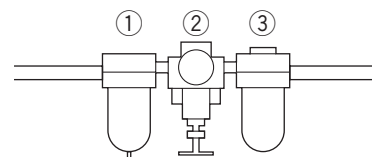
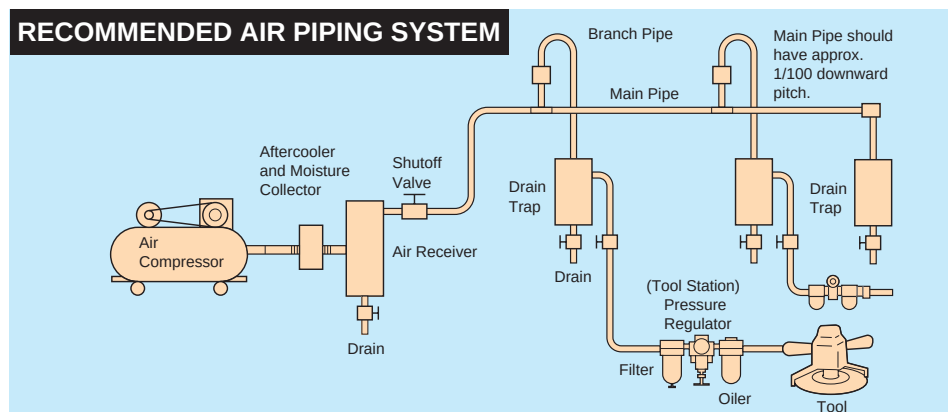


6) Never exceed maximum speed of the abrasive Wheel to avoid dangerous breakage. Fragments from the Wheel can cause serious injury or death. Do not operate without wearing eye protector and gloves.

RUBBER PAD, FIBER PAD & POLISHING PAD

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

RECOMMENDED AIR PIPING SYSTEM



- ① Air Filter :**
removes water and dirt particles out of compressed air.
- ② Pressure Regulator :**
gives steady and dependable regulation at 0.6MPa (85psi).
- ③ Air Oiler (Lubricator) :**
assures longer and more dependable tool life.



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

DRILLS & TAPPERS

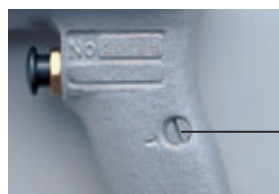
COMBINATION DRILLS
HEAVY DUTY DRILLS
TAPPERS

* 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)

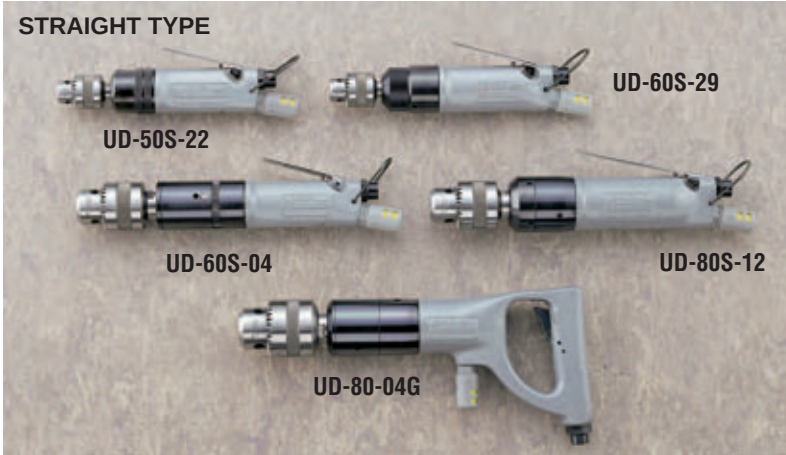
Model	Drilling Capacity		Free Speed (about)	Overall Length (about)		Weight with Chuck (about)		From Center to Outside (about)		Nominal Chuck Size		Type of Spindle	Average Air Consumption		Noise Level
	mm	in	rpm	mm	in	kg	lb	mm	in	mm	in	in-thr'd	m³/min	ft³/min	dB(A)
UD-50-200	3	1/8	23000	135	5 5/16	0.70	1.50	21.0	53/64	8	5/16	3/8-24UNF	0.40	14	73
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	72
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	72
UD-60-29	8	5/16	2900	167	6 9/16	1.10	2.43	22.5	57/64	8	5/16	3/8-24UNF	0.50	18	77
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	77
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	76
UD-60-07	13	1/2	700	214	8 27/64	1.40	3.08	22.5	57/64	13	1/2	1/2-20UNF	0.50	18	75
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	75
UD-80-12	13	1/2	1200	212	8 7/16	1.80	3.96	26.0	1 1/64	13	1/2	1/2-20UNF	0.65	23	79
UD-80-07	13	1/2	700	242	9 1/2	2.30	5.06	26.0	1 1/64	13	1/2	1/2-20UNF	0.65	23	79
UD-80-04	16	5/8	400	265	10 7/16	2.90	6.39	26.0	1 1/64	16	5/8	5/8-16UNF	0.65	23	79

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

*Air Inlet Thread : NPT1/4"

UD-50/60/80 SERIES DRILLS

STRAIGHT TYPE



SPINDLE	3/8"-24 UNF	1/2"-20 UNF	5/8"-16 UNF
Key Chuck 	○ 8mm (923-070-0) * 10mm (923-072-0)	○ 13mm (923-071-0) * 10mm (923-073-0)	○ 16mm (927-080-0)
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		Noise Level
	mm	in	rpm	mm	in	kg	lb	mm	in	mm	in	in-thr'd	m³/min	ft³/min	dB(A)
UD-50S-200	3	1/8	23000	200	7 7/8	0.70	1.50	21.0	53/64	8	5/16	3/8-24UNF	0.40	14	78
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	77
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	77
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	77
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	77
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	77
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	75
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	75
UD-80S-12	13	1/2	1200	280	11 13/64	1.60	3.53	26.0	1 1/64	13	1/2	1/2-20UNF	0.65	23	79
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	79
UD-80S-04	16	5/8	400	323	12 23/32	2.70	5.95	26.0	1 1/64	16	5/8	5/8-16UNF	0.65	23	79
UD-80-12G	13	1/2	1200	290	11 27/64	2.30	5.06	26.0	1 1/64	13	1/2	1/2-20UNF	0.65	23	79
UD-80-07G	13	1/2	700	310	12 13/64	2.80	6.16	26.0	1 1/64	13	1/2	1/2-20UNF	0.65	23	79
UD-80-04G	16	5/8	400	333	13 7/64	3.40	7.50	26.0	1 1/64	16	5/8	5/8-16UNF	0.65	23	79

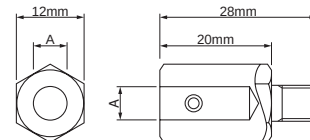
*Air Hose Size (Inside Diameter) : 9.5mm (3/8") *Air Inlet Thread : NPT1/4"

ANGLE TYPE



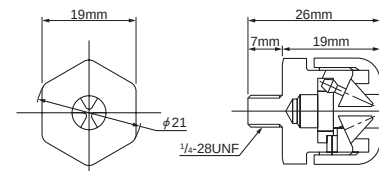
DRILL ADAPTER (for UD-50S Series)

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		Noise Level
	mm	in	rpm	mm	in	kg	lb	mm	in	mm	in	mm	in	in-thr'd	m³/min	ft³/min	dB(A)
UD-50S-45A	4	5/32	5000	253	9 31/32	0.90	1.98	40	1 57/64	21.0	53/64	-	-	1/4-28UNF	0.40	14	79
UD-50S-22A	4	5/32	2200	248	9 49/64	0.88	1.94	40	1 57/64	21.0	53/64	-	-	1/4-28UNF	0.40	14	79
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	79
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	79

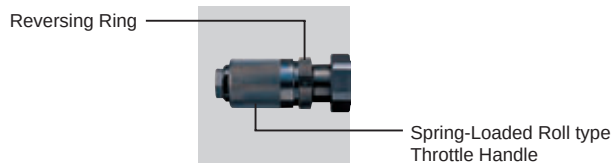
*Air Hose Size (Inside Diameter) : 9.5mm (3/8") *Air Inlet Thread : NPT1/4"

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 (STANDARD)



ROLL TYPE THROTTLE HANDLE (OPTION)



Pull out and set the stopper to position (2) to avoid accidental reversing operation.

Push back and release the stopper to position (1) for reversing operation.

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		Noise Level
		mm	in		mm	in	kg	lb	mm	in	mm	in	mm	in	m³/min	ft³/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	95

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

UT-60 & 66 SERIES TAPPERS

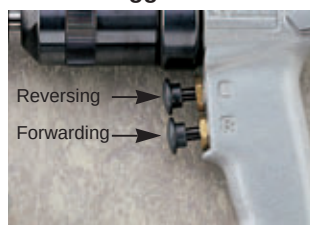
UT-60 series equipped with the "PUSH-PULL" auto-reversing clutch mechanism need no special operation for reversing. Push the tool forward against the work for tapping in, and just pull it backward for reversing out.

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

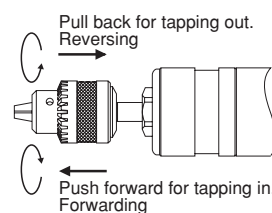
PISTOL / STRAIGHT TYPE



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		Noise Level
	mm	in		mm	in	kg	lb	mm	in	m³/min	ft³/min	
UT-66B-15	6	1/4	1500	183	7 7/32	1.32	2.90	25.0	31/32	0.4	14.4	85
UT-66B-07	8	5/16	800	196	7 23/32	1.42	3.12	25.0	31/32	0.4	14.4	85
UT-60-07	8	5/16	680	244	9 39/64	1.80	3.96	22.5	57/64	0.5	18.0	75
UT-60-04	8	5/16	400	244	9 39/64	1.80	3.96	22.5	57/64	0.5	18.0	75
UT-60S-07	8	5/16	680	300	11 13/16	1.65	3.63	22.5	57/64	0.5	18.0	75
UT-60S-04	8	5/16	400	316	12 7/16	1.65	3.63	22.5	57/64	0.5	18.0	75

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



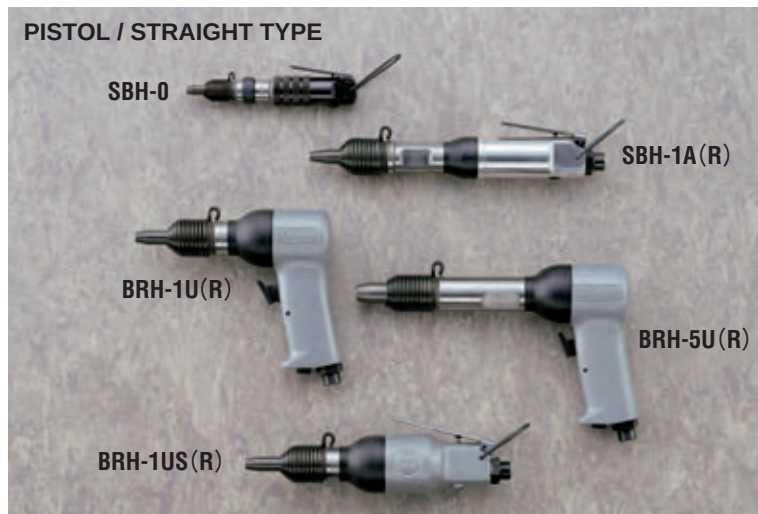
PERCUSSION TOOLS

RIVETING HAMMERS
FLUX CHIPPERS
CHIPPING & CAULKING HAMMERS

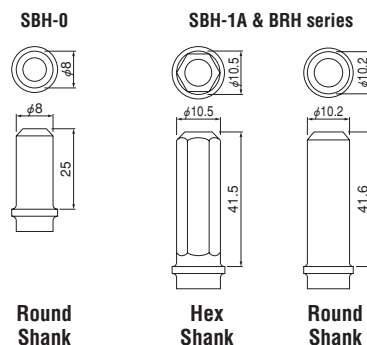
* Sound Level measured to ISO 15744

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



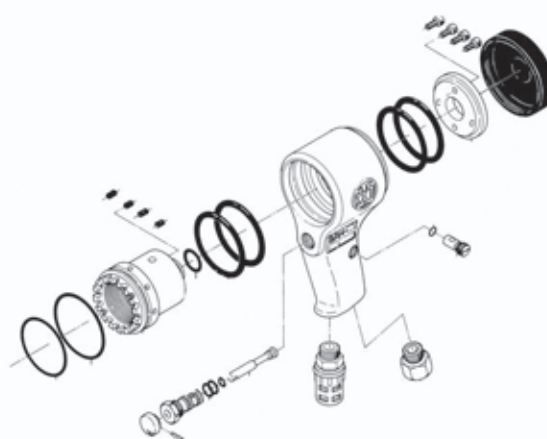
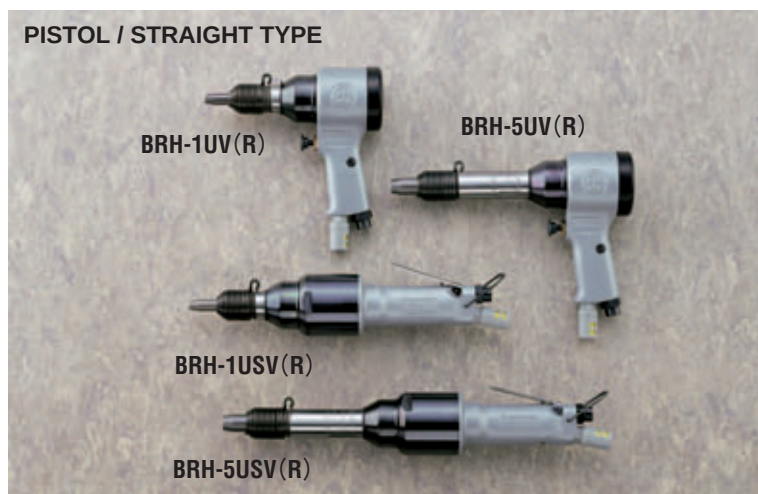
SPECIFICATIONS

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		Noise Level
	Duralumin		Steel																
	mm	in	mm	in		bpm	mm	in	kg	lb	mm	in	mm		in	in	mm	in	
SBH-0	2.3	3/32	-	-	6500	123	4 27/32	0.32	0.7	10.00	25/64	23	29/32	NPT1/4	6.35	1/4	0.10	3.5	90
SBH-1A(R,H)	2.6	7/64	-	-	4000	209	8 15/64	0.86	1.9	11.11	7/16	56	2 3/16	NPT1/4	6.35	1/4	0.15	5.0	92
BRH-1U(R,H)	3.2	1/8	2.4	3/32	2800	122	4 15/16	1.05	2.4	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	95
BRH-1US(R,H)	3.2	1/8	2.4	3/32	2800	180	7 1/8	1.00	2.2	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	95
BRH-1UG(R,H)	3.2	1/8	2.4	3/32	2800	187	7 3/8	1.78	3.9	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	95
BRH-5U(R,H)	6.4	1/4	4.8	3/16	1800	190	7 1/2	1.40	3.1	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	95
BRH-5US(R,H)	6.4	1/4	4.8	3/16	1800	248	9 25/32	1.45	3.2	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	95
BRH-5UG(R,H)	6.4	1/4	4.8	3/16	1800	255	10 3/16	2.13	4.7	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	95

VIBRATION-LESS TYPE

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



SPECIFICATIONS

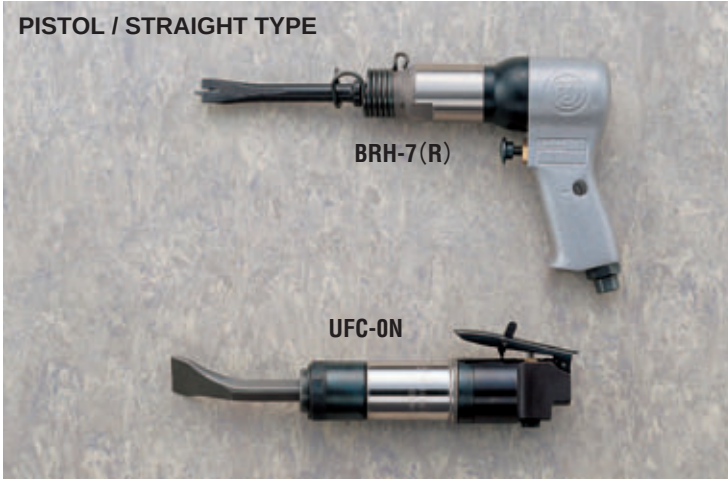
Recommended Air Pressure : 0.6MPa(85psi)

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		Noise Level
	Duralumin		Steel																
	mm	in	mm	in		bpm	mm	in	kg	lb	mm	in	mm		in	in	mm	in	
BRH-1UV(R,H)	3.2	1/8	2.4	3/32	2800	162	6 3/8	1.37	3.0	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	91
BRH-5UV(R,H)	6.4	1/4	4.8	3/16	1800	227	8 15/16	1.68	3.7	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.37	13.0	91
BRH-1USV(R,H)	3.2	1/8	2.4	3/32	2800	271	10 21/32	1.60	3.5	14.30	9/16	38	1 1/2	NPT1/4	9.5	3/8	0.34	12.0	91
BRH-5USV(R,H)	6.4	1/4	4.8	3/16	1800	338	13 5/16	1.90	4.1	12.70	1/2	100	4	NPT1/4	9.5	3/8	0.34	12.0	91

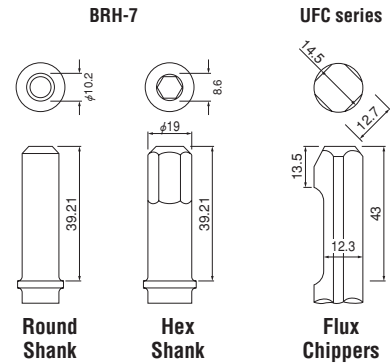
IMPACT CUTTERS/FLUX CHIPPERS

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



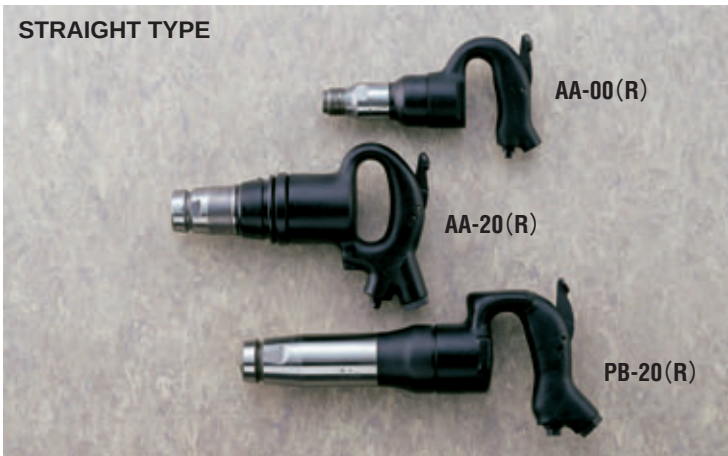
SPECIFICATIONS

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		Noise Level
	bpm	mm	in	kg	lb	mm	in	mm	in	in	mm	in	m³/min	ft³/min	dB(A)
BRH-7(R,H)	3400	190	7 1/2	1.64	3.60	19.05	3/4	50	1 31/32	NPT1/4	9.5	3/8	0.48	17.0	100
UFC-0N	5300	180	7 1/8	1.38	3.04	25.00	63/64	28	1 1/4	NPT1/4	9.5	3/8	0.3	10.7	90
UFC-1N	4200	190	7 1/2	1.50	3.30	25.00	63/64	34	1 11/32	NPT1/4	9.5	3/8	0.3	10.7	90

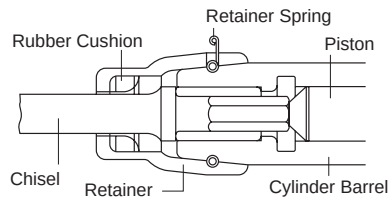
CHIPPING & CAULKING HAMMERS

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)

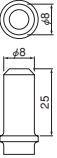
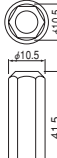
SPECIFICATIONS

Recommended Air Pressure : 0.6MPa(85psi)

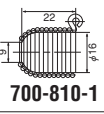
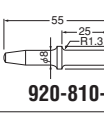
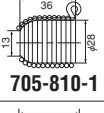
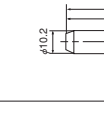
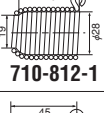
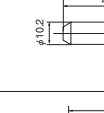
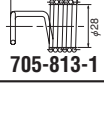
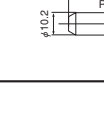
Model	Chisel Shank Size				Blow Per Min. (about)	Overall Length (about)		Weight Less Chisel (about)		Piston Diameter (about)		Piston Stroke (about)	Air Inlet Thread (Pipe Tap)	Air Hose Size		Average Air Consumption		Noise Level	
	Round		Hexagonal																
	mm	in	mm	in		bpm	mm	in	kg	lb	mm	in	mm	in	in	mm	in	m³/min	ft³/min
AA-00(R,H)	12.7	1/2	10.5	13/32	2700	228	8 31/32	2.3	5.00	20.0	25/32	50	1 31/32	NPT1/4	9.5	3/8	0.35	12.3	95
AA-20(R,H)	17.5	11/16	14.7	19/32	2300	270	10 5/8	5.3	11.60	28.0	1 7/64	55	2 5/32	NPT3/8	12.7	1/2	0.60	21.1	100
AA-30(R,H)	17.5	11/16	14.7	19/32	2000	298	11 23/32	5.7	12.50	28.0	1 7/64	79	3 1/8	NPT3/8	12.7	1/2	0.60	21.1	100
AA-40(R,H)	17.5	11/16	14.7	19/32	1450	340	13 3/8	6.1	13.40	28.0	1 7/64	111	4 3/8	NPT3/8	12.7	1/2	0.60	21.1	100
PB-20(R,H)	17.5	11/16	14.7	19/32	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	100
PB-30(R,H)	17.5	11/16	14.7	19/32	1500	397	15 5/8	7.1	15.60	28.5	1 1/8	102	4 1/62	NPT3/8	12.7	1/2	0.80	28.0	100

ACCESSORIES

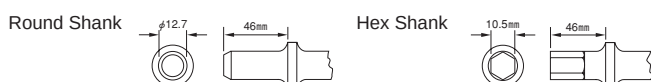
SHANK SIZE OF RIVET SETS

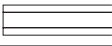
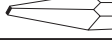
SBH-0	SBH-1A, BRH-1U & 5U	BRH-7	UFC series
			
Round Shank	Hex Shank	Round Shank	Flux Chippers

RIVET SETS

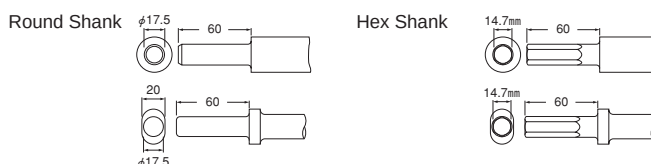
	RETAINER SPRING	RIVET SETS	MODEL
Round Shank	 700-810-1	 920-810-0	SBH-0
	 705-810-1	 920-021-0	SBH-1A(R) BRH-1U(R) BRH-5U(R) series
	 710-812-1	 920-040-0	BRH-5U(R) series
	 705-813-1	 920-800-0	SBH-1A(R) BRH-1U(R) BRH-5U(R) series

CHISELS for AA-00 SERIES (Collared type)



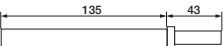
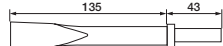
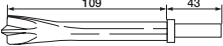
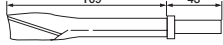
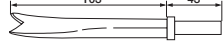
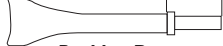
POINT shape	Overall Length		Code No.	
	mm	in	Round shank	Hex.Shank
	200	7 7/8"	921-224-0	921-049-0
	176	6 15/16"	877-035-1	921-221-0
	220	8 21/32"	921-225-0	921-220-0

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. Shanks 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)	φ 2mm×27pcs	NA-21	881-046-1
	φ 3mm×16pcs	NA-31	881-051-1
BRH-7(H)	φ 2mm×27pcs	NA-23	881-056-1
	φ 3mm×16pcs	NA-33	881-061-1
UFC-series	φ 2mm×27pcs	NA-22	881-031-1
	φ 3mm×16pcs	NA-32	881-041-1

TESTERS & OTHERS

DIGITAL TORQUE TESTERS
FASTENING TESTERS
HYDRAULIC TESTERS
SIMPLE CHECKERS
URYU NETWORK



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 down-loading 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.

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 (240 x 125 x 76)	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°C), Humidity(20-80%), No Dew



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.

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)

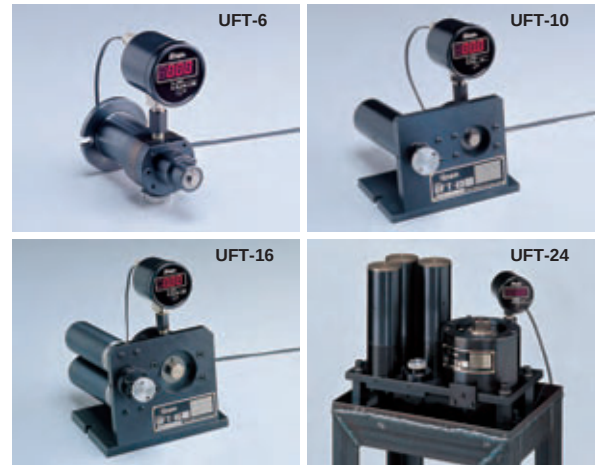


UFT SERIES TESTER

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	M10	17.8-30.6	31.4-53.9	22.0	48.4
	M12	25.5-41.7	53.9-88.2		
	M14	35.7-60.3	88.2-149		
UFT-24	M16	52.8-67.4	149-190	50.0	110.0
	M18	59.9-92.6	190-294		
	M20	83.3-125	294-441		
	M24	104-162	441-686		

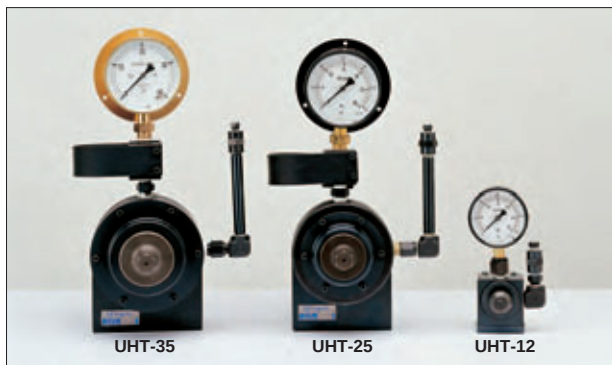


UHT SERIES TESTER

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	100.0	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

