OIL-PULSE TOOLS

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RECYCLED MATERIALS
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Warning! It might be dangerous to operate the tool, if the instructions supplied are not followed.

Before using, installing, repairing or changing accessories, read and understand these instructions.

INTENDED USE

The tool is designed to tighten threaded fasteners utilizing an Oil-filled mechanism to deliver hydraulic pressure pulses.

Operator's Instruction Manual

Air Pressure

Tool is designed to be operated under the working pressure of 5～6 bar = 0.5～0.6 MPa.

Air Hose & Fitting

Correct Hoses (the shorter, the better) and Fittings should be used for safety operation and correct performance. See enclosed TECHNICAL DATA for air hose size & air inlet thread.

Dry & Clean Air

Air Filter and Lubricator (fog type) should be used and preferably sited in a position within three (3) meters of the tool. Dust, corrosive fumes and/or excessive moisture can ruin the motor of the tool.

Socket

Connect female square drive Socket and Anvil by depressing Retainer Pin with small screwdriver or similar tool. For "D" type models with Quick Change Chuck, pull Bit Sleeve and insert 1/4" hex. Bit. See enclosed TECHNICAL DATA for square drive shank size.

Reverse Lever

Set Reverse Lever to "R" for clockwise or to "L" for counter-clockwise rotation.

Air Supply

Connect the tool to the air line.
Before starting the tool, read Operator's Safety Manual.

Torque Adjustment

Warning! Disconnect the air supply before torque adjustment.

ULT : Remove Allen Head Plug for torque adjusting hole in the Front Casing.
Rotate anvil manually until Relief Valve Spindle is exposed directly through the hole.

Turn Relief Valve Spindle clockwise to increase torque, and counter-clockwise to decrease torque

output. Use UFT Testers for torque adjustment.

Maximum torque

Turn Relief Valve Spindle clockwise until it bottoms out.
Caution! Never remove Round Head Oil Plug in Oil Pulse Unit which causes oil leakage and power-down.

Throttle Trigger/Lever

Grip the handle firmly and pull Throttle Trigger or Lever slowly to start fastening operation.

Exhaust Air

Adjust the direction of the exhaust air with Silencer to the best position for eye and ear protection. Silencer can be turned 360 degree.

Warm Up

In case of low temperature, oil pulse action may not be generated in the first use due to viscosity of hydraulic fluid. Warm up the pulse unit approximately ten (10) seconds by fixing Anvil on the vise before starting fastening operation.

Maintenance

●Lubrication

Do not lubricate the tool with flammable or volatile liquids such as kerosene, diesel or jet fuel.

For Air Motor: Supply light Turbine Oil properly through Air Inlet or line lubricator before and after every operation. For example, Mobil Turbine Oil #32, Shell Turbine Oil #32, and/or equivalents.
For Bearing: Supply high quality Grease properly. For example, Shell Alvania No.2, Mibilplex 2, and/or equivalents.

Disposal of Tool

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

●Overhaul

It is recommended that after every 150,000 fastenings or 3 months whichever comes first, the fluid in the tool's oil pulse unit shall be changed. It is also recommended at such time, to grease bearings in the air motor. If the presence of water is noted, it is recommended that a small amount of oil shall be run through the air motor to wash any rust in the air motor.

It is recommended to inspect oil pulse unit every after 200,000 fastening cycles or 6 months whichever comes first for damage or wearing of inner sealing materials. Replace damaged or worn sealing materials and fluid in the oil pulse unit shall be changed. This inspection and overhaul requires skilled personnel.

When the tool torque has dropped to less than 90% from pre-set torque, overhaul is required by skilled personnel as oil leakage may be supposed. Do not attempt to increase torque by adjusting the relief valve spindle as sudden torque drop may occur after this adjustment.

Ensure that the data plate and labels on the tool are kept in a legible condition. Replace any damaged date plate and label.

Maintenance and repair records should be kept on all tools.

For further information, contact your nearest URYU distributor or direct to URYU in Japan.

Operator's Safety Manual

The air pressure at the tool air inlet shall not exceed the maximum operating pressure 6.3 bar (90 PSI).

Air hose and line shall be relieved of compressed air before being disconnected or disjointed. Air hose shall be blown out before connection to the tool and when not in use the air inlet shall be plugged.

An accessible means for shutting off air supply should be provided at each tool station.

Hose coupling shall be securely fitted to the tool and take-off point. If an air hose and fittings 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 war. Replace when necessary.

Sockets shall be of impact socket type. Never use hand tool sockets. Hand tool socket can break, resulting in a hazard from flying pieces. Inspect sockets, retainers, and drivers regularly for wear or damage, and replace as necessary. Worn sockets reduce power, cause drive wear and increase the chance for breakage and should not be used. Bits shall be of the power bit type.

Socket retainers - either pin or integral _ should be properly engaged to prevent falling sockets off. Unretained sockets can spin off and cause serious injury. Always use socket retainer components recommended by the socket manufactures. Never substitute wire or nail for retaining pins because they are dangerous if thrown from the tool at free speed, or if the protruding nail or wire is accidentally grasped by the operator.

Before the tool is connected to the air supply, check the throttle for proper operation (i.e. throttle moves freely and returns to stop position). When air supply is interrupted, immediately return the throttle to stop position.

Operators shall be instructed in their proper use.

A) Handle with care, paying careful attention to the weight of tool. Don't lift or carry any more than you can handle easily. Use safe lifting techniques.

B) Keep hands and clothing away from the rotating socket or bit. Never wear loose fitting clothes and be careful that long hair is not drawn in the tool during the operation.

C) Practice the safety requirements applicable to the machines and tools being used and the nature of the work performed.

D) Hold the tool correctly. Anticipate and be alert for sudden changes in motion during start up and operation of any power tool. Keep body stance balanced and firm. Do not ever reach when operating the tool.

E) The tool should be disconnected from the air supply before servicing or changing sockets or bits. This will prevent the tool from operating if the throttle or lever is accidentally engaged.

F) Never use the air hose for supporting, lifting or lowering the tool. Use a safety line or cable on the tool when working in elevated areas.

G) Ear protectors must be used when the noise level at operator's position exceeds 80 dB(A).

H) Even the tool can vibrate in use. Vibration, repetitive motions or uncomfortable positions may be 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 is not responsible for any troubles and accidents, caused by the operator's own modifications of tools and accessories without having consulted with URYU.

If the tool is fixed to a balancer or a similar device, make sure that the fixation is secure.

The tool shall not be used in explosive atmospheres, and be insulated for coming into contact with electric power sources.

Note the position of Reversing Lever before operating the tool so as to be aware of the direction of rotation when operating the throttle.

For more information, contact at any time your nearest URYU distributors or direct to URYU in Japan.

Advarsel! Møtrikspænderen må ikke betjenes før sikkerhedsinstruktionerne er læst og forstået.

Inden møtrikspænderen tages i brug skal alle medfølgende anvisninger læses igennem og forstås.

ANVENDELSEOMRÅDE

Denne maskine er beregnet til spænding af bolte ved anvendelse af en oliefyldt mekanisme med hydraulisk impulsværk.

Brugervejledning

LUFTTRYK

Maskinen er konstrueret til et arbejdstryk på 5-6 bar (0.5-0.6 MPa).

SLANGESTØRRELSER & TILSLUTNINGER

Korrekte slanger (jo kortere, jo bedre) og fittings anbefales for korrekt brug og udnyttelse af maskinen.
Se "TEKNISKE DATA" for slange- og gevindstørrelser.

TØR & REN LUFT

Vandudskiller og tågesmører skal anvendes, og bør ikke placeres mere end 3m fra maskinen. Støv, aggressive dampe og/eller fugt kan ødelægge motoren i værktøjet.

TOPPE/BITS

Tilslut toppen til akslen ved at trykke låsepinden ind med en lille skruetrækker eller lignende. For "D" modeller med lynkoblingssystem, træk i omløberen og indsæt 1/4" sekskant bit. Se "TEKNISKE DATA" for firkant størrelse.

REVERSERING

Stil reverseringsknappen på "R" for højrerotation (Right) eller "L" for venstrerotation (Left).

LUFTTILFØRSEL

Tilslut maskinen til luftslangen.
OBS! Inden maskinen tages i brug skal sikkerhedsinstruktionerne læses grundigt igennem.

MOMENTINDSTILLING

ADVARSEL! Fjern luftslangen inden momentindstillingen justeres.

ULT:

- Skru unbracoskruen ud forrest på maskinen. Drej manuelt på akslen til justerskruen ses i midten af åbningen.

ADVARSEL! Skru aldrig "olieproppen" ud af den hydrauliske enhed, da dette vil forårsage olielækage og nedsat drejemoment! Den lille justerskrue er altid til momentindstilling.

- Skru henholdsvis mod højre for at øge tilspændingsmomentet og mod venstre for at mindske det. Anvend eventuelt momenttester UFT-10/UFT-16 for at kontrollere det indstilte moment.
- For at indstille det maksimale moment skrues justerskruen i bund mod højre og derefter ca. 1/2 omgang tilbage.

Modsat for minimalt tilspændingsmoment.

STARTKNAP

Hold maskinen stille og tryk langsomt på startknappen for at påbegynde tilspændingen.

AFGANGSLUFT

Retningen på afgangsluften justeres ved at dreje på lyddæmperen. Lyddæmperen kan drejes 360°.

OPVARMNING

Anvendes maskinen i kolde rum kan det forekomme at maskinens impulsværk ikke starter med det samme p.g.a. at olien er blevet kold og tykflydende. Varm olien op ved at lade maskinen køre i maks. 10 sekunder med akslen spændt fast i en skruetvinge.

SMØRING

Luftmotoren: Smør motoren ved at dryppe en dråbe olie i luftindgangen før og efter hver arbejdsgang, eller anvend en tågesmører hvilket er at anbefale. (Anvend f.eks. Mobile turbineolie #32, Shell turbineolie #32 og/eller olie af tilsvarende kvalitet.)
Kuglelejer: Smør kuglelejerne grundigt med fedt af en høj kvalitet hver tredje måned og ved eftersyn af maskinen. (Anvend f.eks. Shell Alvania nr. 2, Mobilplex 2 og/eller tilsvarende.)

KASSERING AF MASKINEN

Maskinen er produceret af stål, støbejern, aluminium, plast, gummi og olieprodukter. Sørg for at maskinen ikke forårsager forurening i miljøet ved en eventuel kassering af maskinen.

VEDLIGEHOLDELSE

- Hydraulikolien bør skiftes hver tredje måned. Vær opmærksom på at kuglelejerne i motoren bliver smurt.

Skulle der være spor efter vand i luftmotoren bør man køre en lille mængde olie igennem motoren for at fjerne rust i motoren.

- Det anbefales at kontrollere impulsværket ca. hver sjette måned, for at forhindre unødig slidtage og skader på pakninger m.m. Skift eventuelt slidte og ødelagte dele, samt olien i impulsværket. Eftersyn og reparationer må kun udføres af en autoriseret person.
- Svinder det indstilte moment til mindre end 90% af det indstilte, skal maskinen indleveres til eftersyn, som skal foretages af autoriserede personer, da olielækage kan være fejlen. Momentet må ikke øges ved hjælp af indstillingsskruen, da maskinen kan miste momentet helt efter denne justering.
- Ved reparationer skal originale URYU reservedele anvendes.
- Sørg for at skiltet på maskinen holdes i en sådan stand at maskinmodel og nummer tydeligt fremgår heraf.
- Vedligeholdelse og reparationsdokument bør føres over samtlige maskiner.
- Kontakt Deres nærmeste URYU forhandler for yderligere information.

Sikkerhedsinstruktioner

Maskinens lufttryk må aldrig overstige det maksimale arbejdstryk, hvilket er 6,3 bar (90 psi).

Luftslangen skal altid tømmes for luft inden maskinen kobles fra. Slangen skal fjernes fra maskinen inden værktøjet skiftes.

Det skal være muligt at lukke for lufttilførslen til maskinen ved hvert arbejdssted.

Slangekoblinger skal sidde ordentlig fast i maskinen og være ordentlig fastmonteret på slangen. Hvis en slangekobling anvendes forkert eller er monteret forkert, kan slangen løsne og forårsage skader ved "slangekast". Luftslange og koblinger skal efterses og skiftes regelmæssigt for at forhindre slidtage og skader.

Toppe og bits, der anvendes til lufthydrauliske møtrikspændere, skal være af "KRAFT"-typen. Anvend aldrig toppe, der er beregnet til håndkraft, da de kan gå i stykker og resultere i alvorlige skader p.g.a. splinter fra toppen.
Check toppe, låsepinde og aksler regelmæssigt for at opdage slidtage og skader i tide. Slidte toppe mindsker
kraften og forårsager slidtage på akslen, hvilket mindsker værktøjets levetid.

Låseanordningen for toppe, både låsepinde og o-ringe, skal sættes ordentligt fast for at hindre toppene i at løsne ved lave omdrejninger. Toppe som ikke sidder ordentligt fast kan løsne og forårsage alvorlige skader. Anvend altid den låseanordning, som leverandøren anbefaler. Anvend aldrig ståltråd, søm eller lignende som låseanordning til toppene.

Inden maskinen kobles til luftslangen skal startknappen fungere korrekt d.v.s. at knappen kan arbejde ubesværet.

Brugere af lufthydrauliske møtrikspændere skal før ibrugtagning instrueres i korrekt brug.

A) Vær opmærksom på maskinens vægt. Løft eller bær aldrig mere end hvad der er overkommeligt. Brug eventuelt løfteanordninger.
B) Hold løst hængende tøj og langt hår borte fra roterende dele af maskinen under brug.
C) Anvend personligt sikkerhedsudstyr.
D) Hold maskinen korrekt. Vær opmærksom på pludselige ryk og lignende ved start og under brug.
E) Luftslangen skal frakobles maskinen før service og udskiftning af toppe eller bits. Dette forhindrer maskinen i at starte, hvis man kommer til at aktivere startknappen.
F) Løft eller transporter aldrig maskinen i slangen, men anvend i stedet en kæde eller wire, hvis maskinen anvendes i højder.
G) Høreværn skal anvendes, hvis lydniveauet på arbejdspladsen overstiger 80 dB(a).
H) Selv lufthydrauliske momentspændere kan vibrere under brug. Da vibrationer og monotone bevægelser under arbejdet kan være skadelige for kroppen, anbefales det at stoppe arbejdet ved ubehag.
I) URYU er ikke ansvarlig for problemer eller ulykker, som er forårsaget som følge af korrekt brug eller ved egne modificeringer af værktøjet.

Bruges maskinen sammen med en balanceblok eller lignende skal det kontrolleres at maskinen er ordentligt fastgjort.

Maskinen må ikke anvendes i områder med eksplosionsfare, og er ikke isoleret imod elektrisk strøm.

Hvis lufttilførslen afbrydes skal startknappen tilbage til stop position.

For yderligere informationer kontaktes Deres nærmeste URYU forhandler.

TECHNICAL DATA

ALPHA-SERIES OIL-PULSE TOOLS

Model	Capacity Bolt Size	Free Speed (about)	Torque Range (about)	Overall Length (about)	Weight less Acc. (about)	Drive Shank Sq. or Hex.	Air Hose Size	Air Inlet Thread (Pipe Tap)	Average Air Consumption	Sound Level	Vibration Level
	mm	rpm	Nm	mm	kg	mm	mm		m3/min.	dB(A)	m/s2
ALPHA-130	M14	"3,400"	100-160	209	2.65	12.7 Sq.	9.5	N.P.T. 1/4	0.65	82	2.3
ALPHA-140	M16	"3,100"	150-230	226	3.35	19 Sq.	9.5	N.P.T. 1/4	0.70	84	5.0
ALPHA-160	M18	"3,700"	160-270	245	3.80	19 Sq.	9.5	N.P.T. 3/8	0.90	84	5.0
ALPHA-180	M18-20	"3,500"	270-350	250	4.70	19 Sq.	12.7	N.P.T. 3/8	0.95	84	5.0
ALPHA-70C	M8-10	"6,300"	25-40	266	1.77	9.5 Sq.	9.5	N.P.T. 1/4	0.45	82	22.4
ALPHA-70CH	M10-12	"3,600"	45-68	282	2.00	12.7 Sq.	9.5	N.P.T. 1/4	0.45	82	22.4
ALPHA-T140	M16	"3,100"	140-210	246	3.50	19 Sq.	9.5	N.P.T. 1/4	1.00	84	3.2

*TM (Fastening Count Type) is also available.

SUPER INTELEC SYSTEM MC TOOLS

ALPHA-60MC	M6	"7,000"	10-20	215	1.40	9.5 Sq.	9.5	N.P.T. 1/4	0.25	75	1.0
ALPHA-60DMC	M6	"7,000"	10-20	215	1.40	6.35 Hex.	9.5	N.P.T. 1/4	0.25	75	1.0
ALPHA-60SMC	M6	"6,300"	10-17	280	1.40	9.5 Sq.	9.5	N.P.T. 1/4	0.25	75	1.0
ALPHA-70MC	M8	"7,300"	15-30	215	1.35	9.5 Sq.	9.5	N.P.T. 1/4	0.25	75	1.0
ALPHA-80MC	M8	"7,000"	20-40	231	1.50	9.5 Sq.	9.5	N.P.T. 1/4	0.45	78	1.5
ALPHA-90MC	M8-10	"6,500"	30-47	231	1.50	9.5 Sq.	9.5	N.P.T. 1/4	0.45	78	1.5
ALPHA-101MC	M10	"6,200"	38-70	243	2.10	12.7 Sq.	9.5	N.P.T. 1/4	0.50	80	1.5
ALPHA-110MC	M12	"5,000"	55-100	250	2.50	12.7 Sq.	9.5	N.P.T. 1/4	0.65	80	1.5
ALPHA-130MC	M14	"3,400"	90-150	276	3.50	12.7 Sq.	9.5	N.P.T. 1/4	0.65	82	2.3
ALPHA-140MC	M16	"3,500"	150-220	295	4.63	19 Sq.	9.5	N.P.T. 1/4	0.80	84.5	4.5
UXR-1820MC	M18	"4,600"	160-250	322	5.50	19 Sq.	12.7	N.P.T. 3/8	0.70	84	3.2
UXR-2000MC	M20	"4,800"	250-400	355	8.00	19 Sq.	12.7	N.P.T. 3/8	0.95	85	3.2
UXR-2400SMC	M24	"3,300"	350-600	457	12.50	25.4 Sq.	12.7	N.P.T. 1/2	1.00	85	3.2

Sound level measured to ISO 15744
Vibration level measured to ISO 8662-7
Air pressure:0.6 Mpa

(Specifications are subject to change without notice.)

U·UX·UXR OIL PULSE TOOLS

Model	Capacity Bolt Size	Free Speed (about)	Torque Range (about)	Overall Length (about)	Weight less Acc. (about)	Drive Shank Sq. or Hex.	Air hose Size	Air Inlet Thread (Pipe Tap)	Average Air Consumption	Sound Level	Vibration Level
	mm	rpm	Nm	mm	kg	mm	mm		m3/min.	dB(A)	m/sec2
U-410	M4-5	"10,500"	7-10	177	1.00	9.5 Sq.	6.35	N.P.T. 1/4	0.15	70	1.4
U-350D	M3-4	"10,500"	3.5-5.8	154	0.77	6.35 Hex.	6.35	N.P.T. 1/4	0.15	74	1.0
U-410D	M4-5	"10,500"	7-10	188	1.00	6.35 Hex.	6.35	N.P.T. 1/4	0.15	70	1.4
U-410S	M4-5	"10,500"	7-10	239	0.80	9.5 Sq.	6.35	N.P.T. 1/4	0.15	70	1.4
U-310SD	M3-4	"11,000"	2.5-3.1	222	0.62	6.35 Hex.	6.35	N.P.T. 1/4	0.15	68	1.8
U-350SD	M3-4	"10,500"	3.5-5.8	238	0.71	6.35 Hex.	6.35	N.P.T. 1/4	0.15	74	1.8
U-410SD	M4-5	"10,500"	7-10	240	0.80	6.35 Hex.	6.35	N.P.T. 1/4	0.15	70	2.2
UX-450	M5	"9,500"	9-15	147	0.85	9.5 Sq.	6.35	N.P.T. 1/4	0.20	65	1.0
UX-500	M5-6	"9,300"	15-25	147	0.87	9.5 Sq.	6.35	N.P.T. 1/4	0.25	70	1.0
UX-612	M6-8	"9,300"	20-35	160	0.95	9.5 Sq.	9.5	N.P.T. 1/4	0.32	75	1.0
UX-700	M8	"9,000"	25-45	169	1.38	9.5 Sq.	9.5	N.P.T. 1/4	0.35	72	0.7
UX-800	M8-10	"9,000"	35-60	175	1.70	9.5 Sq.	9.5	N.P.T. 1/4	0.40	75	1.0
UX-900	M10	"7,600"	45-75	181	1.88	12.7 Sq.	9.5	N.P.T. 1/4	0.42	75	1.7
UX-1000	M10-12	"6,800"	50-95	187	2.20	12.7 Sq.	9.5	N.P.T. 1/4	0.51	75	1.4
UX-1300	M12-14	"6,200"	80-130	205	2.70	12.7 Sq.	9.5	N.P.T. 1/4	0.55	77	1.3
UX-1400	M14	"5,300"	100-160	224	3.20	12.7 Sq.	9.5	N.P.T. 1/4	0.60	79	1.8
UX-1620	M14-16	"5,000"	120-190	241	3.60	19 Sq.	9.5	N.P.T. 1/4	0.65	82	2.3
UXR-1820	M16-18	"4,600"	160-250	242	4.10	19 Sq.	12.7	N.P.T. 3/8	0.75	84	3.2
UXR-2000	M18-20	"4,200"	300-450	282	6.50	19 Sq.	12.7	N.P.T. 3/8	0.90	85	3.2
UX-450D	M5	"9,500"	9-15	152	0.85	6.35 Hex.	6.35	N.P.T. 1/4	0.20	65	1.0
UX-500D	M5-6	"9,300"	13-20	152	0.87	6.35 Hex.	6.35	N.P.T. 1/4	0.25	70	1.0
UX-612D	M6-8	"9,300"	16-28	165	0.95	6.35 Hex.	9.5	N.P.T. 1/4	0.32	75	1.0
UX-700D	M8	"9,000"	20-36	174	1.38	6.35 Hex.	9.5	N.P.T. 1/4	0.35	72	0.7
UX-450S	M5	"9,500"	9-15	234	0.80	9.5 Sq.	6.35	N.P.T. 1/4	0.20	67	2.2
UX-500S	M5-6	"9,300"	15-25	239	0.92	9.5 Sq.	6.35	N.P.T. 1/4	0.25	70	2.2
UX-612S	M6-8	"9,300"	20-35	248	1.00	9.5 Sq.	9.5	N.P.T. 1/4	0.32	75	2.2
UX-700S	M8	"9,000"	25-45	244	1.27	9.5 Sq.	9.5	N.P.T. 1/4	0.35	78	2.2
UX-800S	M8-10	"9,000"	35-60	250	1.48	9.5 Sq.	9.5	N.P.T. 1/4	0.40	75	2.3
UX-900S	M10	"7,600"	45-75	310	1.80	12.7 Sq.	9.5	N.P.T. 1/4	0.42	75	2.3
UX-1000S	M10-12	"6,800"	50-95	320	2.10	12.7 Sq.	9.5	N.P.T. 1/4	0.51	75	2.7
UX-1300S	M12-14	"6,200"	80-130	336	2.55	12.7 Sq.	9.5	N.P.T. 1/4	0.55	77	2.7
UXR-2000S	M18-20	"4,200"	300-450	340	7.00	19 Sq.	9.5	N.P.T. 3/8	0.90	85	3.2
UXR-2400S	M24	"4,000"	400-650	385	11.00	25.4 Sq.	12.7	N.P.T. 1/2	1.00	85	3.2
UXR-3000S	M30	"4,400"	500-850	455	13.30	25.4 Sq.	12.7	N.P.T. 1/2	1.05	85	3.2

TM (Fastening Count Type) is also available.

(Specifications are subject to change without notice.)

TECHNICAL DATA

Model	Capacity Bolt Size	Free Speed (about)	Torque Range (about)	Overall Length (about)	Weight less Acc. (about)	Drive Shank Sq. or Hex.	Air hose Size	Air Inlet Thread (Pipe Tap)	Average Air Consumption	Sound Level	Vibration Level
	mm	rpm	Nm	mm	kg	mm	mm		m3/min.	dB(A)	m/sec2
UX-450SD	M5	"9,500"	8-14	239	0.80	6.35 Hex.	6.35	N.P.T. 1/4	0.20	67	2.2
UX-500SD	M5-6	"9,300"	13-20	244	0.92	6.35 Hex.	6.35	N.P.T. 1/4	0.25	70	2.2
UX-612SD	M6-8	"9,300"	16-28	253	1.00	6.35 Hex.	9.5	N.P.T. 1/4	0.32	75	2.2
UX-700SD	M8	"9,000"	20-36	249	1.27	6.35 Hex.	9.5	N.P.T. 1/4	0.35	78	2.2
UX-500C	M5-6	"9,300"	13-20	270	1.28	9.5 Sq.	6.35	N.P.T. 1/4	0.25	82	18.0
UX-612C	M6	"9,800"	16-28	283	1.38	9.5 Sq.	9.5	N.P.T. 1/4	0.32	85	30.0
UX-700C	M8	"9,500"	20-36	273	1.67	9.5 Sq.	9.5	N.P.T. 1/4	0.35	85	5.6
UX-800C	M8-10	"9,000"	29-43	285	1.93	9.5 Sq.	9.5	N.P.T. 1/4	0.40	86	7.6
UX-900C	M10	"7,600"	35-55	338	2.25	9.5 Sq.	9.5	N.P.T. 1/4	0.42	90	30.0
UX-1000C	M10-12	"6,800"	50-80	365	3.05	12.7 Sq.	9.5	N.P.T. 1/4	0.51	90	10.0
UX-612A	M6	"9,800"	16-28	297	1.38	9.5 Sq.	9.5	N.P.T. 1/4	0.32	85	30.0
UX-ST800	M8-10	"7,300"	35-55	195	1.75	9.5 Sq.	9.5	N.P.T. 1/4	0.30	75	1.0
UX-ST1000	M10-12	"6,300"	50-90	210	2.50	12.7 Sq.	9.5	N.P.T. 1/4	0.48	75	1.4
UX-T700L	M6-8	"7,500"	13-26	187	1.46	9.5 Sq.	9.5	N.P.T. 1/4	0.30	72	0.7
UX-T700	M8	"7,500"	20-38	187	1.46	9.5 Sq.	9.5	N.P.T. 1/4	0.30	72	0.7
UX-T800	M8-10	"8,300"	30-45	196	1.80	9.5 Sq.	9.5	N.P.T. 1/4	0.35	75	1.0
UX-T900	M8-10	"7,000"	35-70	202	2.00	12.7 Sq.	9.5	N.P.T. 1/4	0.45	75	1.7
UX-T1000	M10-12	"6,800"	50-90	207	2.35	12.7 Sq.	9.5	N.P.T. 1/4	0.50	75	1.4
UX-T1300	M12-14	"6,200"	70-130	225	2.80	12.7 Sq.	9.5	N.P.T. 1/4	0.55	77	1.3
UX-T1400	M14	"5,300"	100-160	245	3.40	12.7 Sq.	9.5	N.P.T. 1/4	0.60	79	1.8
UX-T1620	M14-16	"5,000"	120-210	260	3.70	19 Sq.	9.5	N.P.T. 1/4	0.65	82	2.3
UXR-T1820	M16-18	"4,400"	150-250	270	4.50	19 Sq.	12.7	N.P.T. 3/8	0.70	84	3.2
UXR-T2000	M18-20	"4,000"	200-400	303	6.80	19 Sq.	12.7	N.P.T. 3/8	0.95	85	3.2
UXR-T2400S	M24	"3,600"	360-650	444	12.00	25.4 Sq.	12.7	N.P.T. 12.7	1.00	85	3.2
UXR-T3000S	M30	"4,400"	450-850	477	14.50	25.4 Sq.	12.7	N.P.T. 12.7	1.05	85	3.2
U-50EC	M6	"2,100"	5-11	195	1.50	9.5 Sq.	9.5	N.P.T. 1/4	0.25	72	3.0
U-50DEC	M6	"2,100"	5-11	201	1.50	6.35 Hex.	9.5	N.P.T. 1/4	0.25	72	3.0
U-50SEC	M6	"2,100"	5-11	280	1.55	9.5 Sq.	9.5	N.P.T. 1/4	0.22	72	43.0
U-50SDEC	M6	"2,100"	5-11	288	1.55	6.35 Hex.	9.5	N.P.T. 1/4	0.29	72	43.0
U-60EC	M6	"1,900"	15-30	193	1.57	9.5 Sq.	9.5	N.P.T. 1/4	0.35	75	6.0
U-60DEC	M6	"1,900"	15-30	198	1.57	6.35 Hex.	9.5	N.P.T. 1/4	0.35	75	6.0
U-60SEC	M6	"1,900"	15-25	305	2.00	9.5 Sq.	9.5	N.P.T. 1/4	0.35	75	55.0
UX-80EC	M8	"1,800"	20-45	196	1.80	9.5 Sq.	9.5	N.P.T. 1/4	0.45	77	5.0
U-100EC	M10	"1,600"	50-80	233	2.80	12.7 Sq.	9.5	N.P.T. 1/4	0.65	78	10.0
UX-120EC	M12	"900"	65-120	255	3.90	12.7 Sq.	9.5	N.P.T. 1/4	0.80	80	15.0
UX-130EC	M12	"1,250"	90-170	273	4.70	12.7 Sq.	9.5	N.P.T. 1/4	1.00	80	20.0

(Specifications are subject to change without notice.)

TM (Fastening Count Type) is also available.
Sound level measured to ISO 15744
Vibration level measured to ISO 8662-7
Air pressure : 0.6 Mpa (UX-120EC is to be used at about 0.35MPa - 0.4MPa.)

UL-SERIES OIL-PULSE TOOLS PISTOL TYPE

Model	Capacity (Bolt Size)	Free Speed		Torque Range		Overall Length (about)	Weight less Acc. (about)	From Center to Outside	Drive Shank Sq. or Hex.	Average Air Consumption	Noise Level	Vibration Level
		0.5 Mpa	0.6 Mpa	0.5 Mpa	0.6 Mpa							
		(about)		(about)								
	mm	rpm		Nm		mm	kg	mm	mm	m³/min.	dB(A)	m/sec²
UL30	5	5,400	5,700	5.5~10.5	6~12	131	0.70	20.5	9.5Sq	0.20	75	1.2
UL30D	5	5,400	5,700	5.5~10.5	6~12	135	0.70	20.5	6.35Hex	0.20	75	1.2
UL40	5~6	5,800	6,100	11~20	13~22	131	0.70	20.5	9.5Sq	0.20	75	1.2
UL40D	5~6	5,800	6,100	9~17	11~20	135	0.70	20.5	6.35Hex	0.20	75	1.2
UL50	6~8	6,100	6,400	20~32	22~35	139	0.77	22	9.5Sq	0.30	78	1.5
UL50D	6~8	6,100	6,400	16~25	18~28	144	0.77	22	6.35Hex	0.30	78	2.3
UL60	8	6,700	7,000	30~45	32~50	139	0.82	22	9.5Sq	0.40	80	1.5
UL60D	8	6,700	7,000	20~32	22~35	142	0.82	22	6.35Hex	0.40	80	2.3
UL70	8~10	5,400	5,700	36~60	40~65	151	0.95	23	9.5Sq	0.45	80	1.5
UL90	10~12	5,700	6,000	55~90	60~100	168	1.30	27	12.7Sq	0.53	82	2.0
UL100	12	5,100	5,400	72~120	80~130	175	1.66	29.5	12.7Sq	0.58	80	2.4
UL30S	5	4,700	5,000	5.5~10.5	6~12	205	0.62	20.5	9.5Sq	0.23	72	3
UL30SD	5	4,700	5,000	5.5~10.5	6~12	209	0.62	20.5	6.35Hex.	0.23	75	4
UL40S	5~6	4,700	5,000	11~20	11~22	205	0.62	20.5	9.5Sq	0.23	72	4
UL40SD	5~6	4,700	5,000	9~17	9~20	209	0.62	20.5	6.35Hex.	0.23	75	4
UL50S	6~8	6,100	6,400	20~32	22~35	208	0.74	22.0	9.5Sq	0.35	78	10
UL50SD	6~8	6,100	6,400	16~25	18~28	214	0.74	22.0	6.35Hex	0.35	78	10
UL60S	8	6,400	6,700	30~45	32~50	209	0.77	22.0	9.5Sq	0.45	80	10
UL60SD	8	6,400	6,700	20~32	22~35	212	0.77	22.0	6.35Hex	0.45	80	10
UL70S	8~10	5,100	5,400	36~60	36~60	223	0.87	23.5	9.5Sq	0.4	84	10

TM (Fastening Count Type) is also available.

(Specifications are subject to change without notice.)

TECHNICAL DATA

ULT-SERIES OIL-PULSE TOOLS PISTOL TYPE

Model	Capacity (Bolt Size)	Free Speed			Torque Range		Overall Length (about)	Weight less Acc. (about)	From Center to Outside	Drive Shank Sq. or Hex.	Average Air Consumption	Noise Level	Vibration Level
		0.4 Mpa	0.5 Mpa	0.6 Mpa	0.4~0.5 Mpa	0.5~0.6 Mpa							
					(about)								
	mm	rpm			Nm		mm	kg	mm	mm	m³/min.	dB(A)	m/sec²
ULT30D	4~5	3,300	3,500	3,700	2.5~5.5		163	0.88	21.5	6.35Hex	0.20	74	1.0
ULT40	5	3,200	3,400	3,600	4.5~8.0		160	0.92	22.5	9.5Sq	0.20	75	1.0
ULT40D	5	3,200	3,400	3,600	4.5~8.0		163	0.92	22.5	6.35Hex	0.20	75	1.0
ULT50	6~8		4,200	4,400		7.0~15.5	160	0.92	22.5	9.5Sq	0.25	78	1.2
ULT50D	6~8		4,200	4,400		7.0~15.5	163	0.92	22.5	6.35Hex	0.25	78	1.2
ULT60	8		6,300	6,700		15~32	172	0.95	22.5	9.5Sq	0.35	80	1.5
ULT60D	8		6,300	6,700		15~32	175	0.95	22.5	6.35Hex	0.35	80	1.5
ULT70	8~10		5,700	6,000		30~55	178	1.05	23.5	9.5Sq	0.40	80	1.5
ULT90	10~12		5,400	5,700		50~85	190	1.45	27	12.7Sq	0.53	82	2.0
ULT100	12		4,900	5,200		70~130	197	1.70	29.5	12.7Sq	0.55	82	2.0
ULT130	14		3,800	4,000		110~150	215	2.30	32.0	12.7Sq	0.73	82	2.0
ULT150	16			3,700		140~210	238	2.90	36.0	19Sq	0.70	82	2.0
ULT180	16~18			3,300		160~250	262	3.70	49.0	19Sq	0.70	84	3.8
ULT50L	6~8	4,000	4,400		7.0~15.5		160	0.92	22.5	9.5Sq	0.20	75	1.0
ULT50DL	6~8	4,000	4,400		7.0~15.5		163	0.92	22.5	6.35Hex	0.20	75	1.0
ULT60L	8	6,000	6,500		13~28		172	0.95	22.5	9.5Sq	0.25	77	1.2
ULT60DL	8	6,000	6,500		13~28		175	0.95	22.5	6.35Hex	0.25	77	1.2
ULT70L	8~10	5,500	5,800		25~48		178	1.05	23.5	9.5Sq	0.30	78	1.3
ULT90L	10~12	5,100	5,600		45~75		190	1.45	27	12.7Sq	0.45	79	1.5
ULT100L	12	4,800	5,200		60~110		197	1.70	29.5	12.7Sq	0.48	79	1.5
ULT130L	12~14	3,600	4,000		80~125		215	2.30	32.0	12.7Sq	0.60	79	1.5
ULT150L	14~16	3,500		3,700	110~170		238	2.90	36.0	19Sq	0.50	79	1.5
ULT180L	14~16	3,000			130~210		262	3.70	49.0	19Sq	0.50	80	2.8

TM (Fastening Count Type) is also available.

(Specifications are subject to change without notice.)

Air Inlet Thread (Pipe Tap) : N.P.T. 1/4"

Air Hose Size : ϕ 10 x 6.5 x 5m for ULT30D-ULT50 series

ϕ 12 x 8.0 x 5m for ULT60 series-ULT100

ϕ 16 x 11.0 x 5m for ULT100L-ULT180 series

ULT-SERIES OIL-PULSE TOOLS STRAIGHT TYPE

Model	Capacity (Bolt Size)	Free Speed			Torque Range		Overall Length (about)	Weight less Acc. (about)	From Center to Outside	Drive Shank Sq. or Hex.	Average Air Consumption	Noise Level	Vibration Level
		0.4 Mpa	0.5 Mpa	0.6 Mpa	0.4~0.5 Mpa (about)	0.5~0.6 Mpa (about)							
	mm	rpm			Nm	Nm	mm	kg	mm	mm	m³/min.	dB(A)	m/sec²
ULT30SD	4~5	3,300	3,500	3,700	2.5~5.5		221	0.75	21.5	6.35Hex	0.20	66	1.1
ULT40S	5	3,200	3,400	3,600	4.5~8.0		218	0.83	22.5	9.5Sq	0.20	70	5.0
ULT40SD	5	3,200	3,400	3,600	4.5~8.0		221	0.83	22.5	6.35Hex	0.20	70	5.0
ULT50S	6~8		4,400	4,700		7.0~15.5	218	0.83	22.5	9.5Sq	0.25	78	5.0
ULT50SD	6~8		4,400	4,700		7.0~15.5	221	0.83	22.5	6.35Hex	0.25	78	5.0
ULT60S	8		5,100	5,400		15~32	229	0.87	22.5	9.5Sq	0.30	80	6.0
ULT60SD	8		5,100	5,400		15~32	232	0.87	22.5	6.35Hex	0.30	80	6.0
ULT70S	8~10		4,400	4,700		30~50	239	0.95	23.5	9.5Sq	0.35	80	7.0
ULT50SL	6~8	4,500	4,800				218	0.83	22.5	9.5Sq	0.20	75	3.5
ULT50SDL	6~8	4,500	4,800				221	0.83	22.5	6.35Hex	0.20	75	3.5
ULT60SL	8	5,000	5,300				229	0.87	22.5	9.5Sq	0.25	77	4.0
ULT60SDL	8	5,000	5,300				232	0.87	22.5	6.35Hex	0.25	77	4.0
ULT70SL	8~10	4,400	4,700				239	0.95	23.5	9.5Sq	0.27	78	4.0

ULT-SERIES OIL-PULSE TOOLS ANGLE TYPE

ULT50C	6~8			4,800		7.0~15.5	250	1.35	24.5	9.5Sq	0.25	78	14
ULT60C	8			5,500		13~28	261	1.45	24.5	9.5Sq	0.30	80	16
ULT70C	8			4,600		20~35	275	1.65	26.5	9.5Sq	0.35	82	18
ULT70CH	8~10			2,300		30~50	290	1.85	26.5	12.7Sq	0.35	82	14
ULT50CL	6~8	4,400			7.0~15.5		250	1.35	24.5	9.5Sq	0.20	75	10
ULT60CL	8	5,000			13~28		261	1.45	24.5	9.5Sq	0.25	78	12
ULT70CL	8	4,200			20~35		275	1.65	26.5	9.5Sq	0.27	78	14
ULT70CHL	8~10	2,100			30~50		290	1.85	26.5	12.7Sq	0.27	78	10

(Specifications are subject to change without notice.)

TM (Fastening Count Type) is also available.

Sound level measured to ISO 15744
Vibration level measured to ISO 8662-7

TECHNICAL DATA

SUPER INTELEC SYSTEM UL MC TOOLS

Model	Capacity (Bolt Size)	Free Speed (Apporox.)			Torque Range		Overall Length (about)	Weight less Acc. (about)	From Center to Outside	Drive Shank Sq. or Hex.	Average Air Consumption	Noise Level	Vibration Level
		0.4 Mpa	0.5 Mpa	0.6 Mpa	0.5 Mpa (about)	0.6 Mpa (about)							
	mm	rpm			Nm		mm	kg	mm	mm	m³/min.	dB(A)	m/sec²
UL40MC	6		5,200	5,450	4.9~9.3	6.8~12.0	170.0	1.10	26.0	9.5Sq	0.20	78	1.2
UL40DMC	6		5,200	5,450	4.9~9.3	6.8~12.0	169.5	1.10	26.0	6.35Hex	0.20	78	1.2
UL50MC	6		6,300	6,700	11.9~22.5	16.6~29.0	175.0	1.10	26.0	9.5Sq	0.25	78	1.5
UL60MC	8		6,100	6,600	18.1~34.2	25.1~44.0	175.0	1.14	26.0	9.5Sq	0.40	80	1.5
UL70MC	8~10		5,300	5,700	20.5~38.9	28.5~50.0	187.0	1.24	26.0	9.5Sq	0.45	80	1.5
UL90MC	10~12		5,200	5,500	32.8~62.2	45.7~80.0	203.0	1.70	28.0	12.7Sq	0.53	82	2.0
UL100MC	12		4,900	5,200	36.9~70.0	51.4~90.0	215.0	2.05	30.0	12.7Sq	0.55	82	2.0

UEP SERIES ELECTRIC OIL-PULSE TOOLS

Model	Capacity (Bolt Size)	Free Speed (Apporox.)	Torque Range	Overall Length (about)	Weight less Acc. (about)	From Center to Outside	Drive Shank Sq. or Hex.	Average Air Consumption	Noise Level	Vibration Level
	mm	rpm	Nm	mm	kg	mm	mm	m³/min.	dB(A)	m/sec²
UEP-50MC	5	2,000	5~10	200.0	1.83	25.0	9.5Sq		70	0.70
UEP-50DMC	5	2,000	5~10	199.5	1.83	25.0	6.35Hex		70	0.70
UEP-60MC	6	2,000	10~25	222.5	2.13	25.0	9.5Sq		70	1.00
UEP-60DMC	6	2,000	10~25	222.0	2.13	25.0	6.35Hex		70	1.00
UEP-70MC	8	2,000	25~40	238.0	2.38	31.0	9.5Sq		72	1.41
UEP-80MC	8~10	2,000	30~60	237.5	3.01	36.5	12.7Sq		75	1.58
UEP-100MC	10~12	2,000	60~120	276.0	4.16	36.5	12.7Sq		75	2.24
UEP-50	5	2,000	5~10	166.0	1.43	25.0	9.5Sq		70	0.70
UEP-50D	5	2,000	5~10	171.0	1.43	25.0	6.35Hex		70	0.70
UEP-60	6	2,000	10~25	188.0	1.76	25.0	9.5Sq		70	1.00
UEP-60D	6	2,000	10~25	193.0	1.76	25.0	6.35Hex		70	1.00
UEP-70	8	2,000	25~40	203.5	2.20	31.0	9.5Sq		72	1.41
UEP-80	8~10	2,000	30~60	202.0	2.73	36.5	12.7Sq		75	1.58
UEP-100	10~12	2,000	60~120	233.5	3.66	36.5	12.7Sq		75	2.24