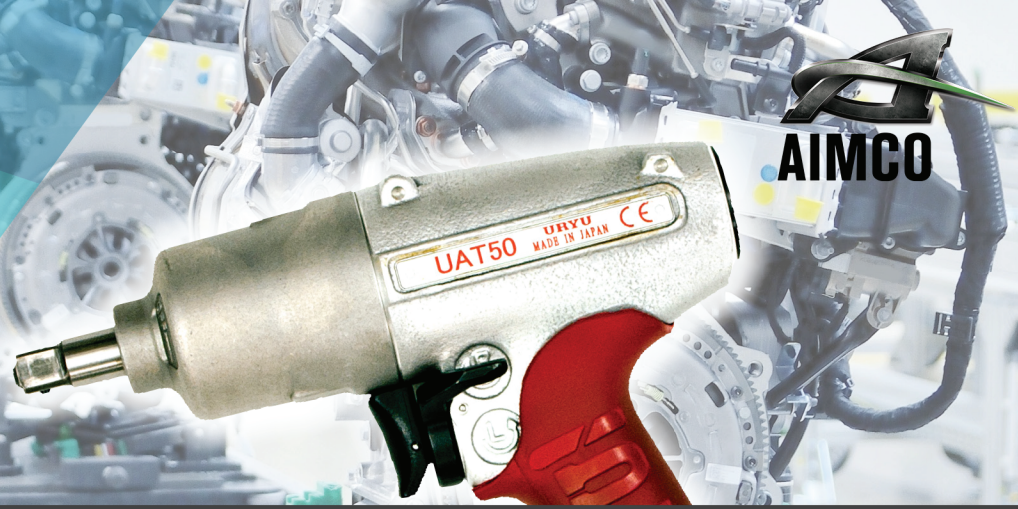


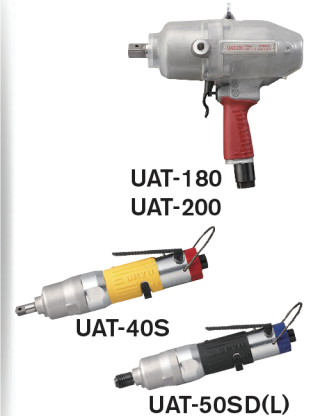
# OMEGA PULSE TOOLS



## UAT SERIES PULSE TOOLS

- Designed by Uryu Seisaku, LTD; one of the world leaders in pulse tool technology
- Patented Auto Relief Technology eliminates initial torque spike during a cycle
- Combines motor power and hydraulics to produce a smooth controlled torque assembly tool
- Extremely fast cycle times with high free speeds up to 6,700 RPM
- Virtually NO torque reaction
- Superior power-to-weight ratio enhancing cycle times with 2 - 4 millisecond torque pulses
- The UAT Series improves the fastening accuracy and time by as much as 30%

**PISTOL AND INLINE  
MODELS AVAILABLE**  
30 Models from  
2.5 Nm to 400 Nm



### PISTOL SHUT-OFF

| MODEL    | FREE SPEED<br>RPM | TORQUE RANGE |               | WEIGHT |     | OVERALL LENGTH |     | DRIVE<br>IN | SOUND LEVEL<br>dB(A) | AIR USAGE<br>CFM |
|----------|-------------------|--------------|---------------|--------|-----|----------------|-----|-------------|----------------------|------------------|
|          |                   | NM           | FT-LB         | LB     | KG  | IN             | MM  |             |                      |                  |
| UAT-30D  | 4,200             | 2.5 - 5.5    | 1.9 - 4.1     | 1.9    | 0.9 | 6.5            | 165 | 1/4         | 76                   | 10.5             |
| UAT-40   | 3,800             | 4.5 - 8      | 3.3 - 5.9     | 2.0    | 0.9 | 6.4            | 162 | 3/8         | 75                   | 8.8              |
| UAT-40D  | 3,800             | 4.5 - 8      | 3.3 - 5.9     | 2.0    | 0.9 | 6.5            | 165 | 1/4         | 75                   | 8.8              |
| UAT-50   | 4,600             | 7 - 15.5     | 5.2 - 11.5    | 2.0    | 0.9 | 6.4            | 162 | 3/8         | 78                   | 8.8              |
| UAT-50D  | 4,600             | 7 - 15.5     | 5.2 - 11.5    | 2.0    | 0.9 | 6.5            | 165 | 1/4         | 78                   | 8.8              |
| UAT-50L  | 4,000             | 7 - 15.5     | 5.2 - 11.5    | 2.0    | 0.9 | 6.4            | 162 | 3/8         | 75                   | 8.8              |
| UAT-50DL | 4,000             | 7 - 15.5     | 5.2 - 11.5    | 2.0    | 0.9 | 6.5            | 165 | 1/4         | 75                   | 8.8              |
| UAT-60   | 6,700             | 15 - 32      | 11.1 - 23.7   | 2.1    | 1.0 | 6.8            | 174 | 3/8         | 80                   | 12.3             |
| UAT-60D  | 6,700             | 15 - 32      | 11.1 - 23.7   | 2.1    | 1.0 | 7.0            | 177 | 1/4         | 80                   | 12.3             |
| UAT-60L  | 6,000             | 13 - 28      | 9.6 - 20.7    | 2.1    | 1.0 | 6.8            | 174 | 3/8         | 77                   | 8.8              |
| UAT-70   | 6,000             | 30 - 55      | 22.2 - 40.7   | 2.3    | 1.1 | 7.1            | 180 | 3/8         | 80                   | 14.0             |
| UAT-70L  | 5,300             | 25 - 48      | 18.5 - 35.5   | 2.3    | 1.1 | 7.1            | 180 | 3/8         | 78                   | 10.5             |
| UAT-80   | 5,600             | 45 - 63      | 33.3 - 46.6   | 2.8    | 1.3 | 7.3            | 186 | 3/8         | 80                   | 16.8             |
| UAT-90   | 5,700             | 50 - 85      | 37.0 - 62.9   | 3.2    | 1.5 | 7.6            | 192 | 1/2         | 82                   | 18.6             |
| UAT-90L  | 5,100             | 45 - 75      | 33.3 - 55.5   | 3.2    | 1.5 | 7.6            | 192 | 1/2         | 79                   | 15.8             |
| UAT-100  | 5,200             | 70 - 130     | 51.8 - 98.2   | 3.7    | 1.7 | 7.8            | 199 | 1/2         | 82                   | 19.3             |
| UAT-100L | 5,200             | 60 - 110     | 44.4 - 81.4   | 3.7    | 1.7 | 7.8            | 199 | 1/2         | 79                   | 16.8             |
| UAT-130  | 4,500             | 110 - 150    | 81.4 - 111    | 5.1    | 2.3 | 8.5            | 217 | 1/2         | 82                   | 24.6             |
| UAT-150  | 3,900             | 140 - 210    | 103.6 - 155.4 | 6.4    | 2.9 | 9.5            | 240 | 3/4         | 82                   | 24.6             |
| UAT-180  | 3,300             | 160 - 250    | 118.4 - 185   | 8.1    | 3.7 | 10.5           | 264 | 3/4         | 84                   | 24.6             |
| UAT-200  | 2,400             | 200 - 400    | 148 - 296     | 12.8   | 5.8 | 11.0           | 279 | 3/4         | 85                   | 35.2             |

Air Hose Size: 1/4" ID for UAT-30 to UAT-50, 3/8" ID for UAT-60 to UAT-100, 1/2" ID for UAT-130 to UAT-200

Note Torque Ranges reflect residual B joint torque values

UAT Models containing "L" indicate models designed to run at 57 PSI air pressure.

Most models can be equipped with TM (Tightening Monitor) feature for use with qualifier systems. Order TM tools by adding "TM" to model number (for example, UAT-60 becomes UAT-60TM).

Air Inlet Thread: 1/4" NPT for UAT-30 to UAT-150 3/8" NPT for UAT-200

UAT Models containing "D" indicate 1/4" quick change bit holder

# HISTORY OF URYU PULSE TOOLS

**1965**  
**NEW TECHNOLOGY**



The first prototype designed to provide torque control with out high maintenance cost of impact wrenches

**1980**  
**U SERIES**



The U-Series is invented. The first pulse tools to be commercially available for assembly evolving into full-shut off tools.

**1988**  
**EC SERIES**



Combining advantages of pulse tools with controlled torque technology, the EC Series is developed. It incorporates a transducer into the design perfect for critical safety applications.

**1995**  
**ALPHA SERIES**



In order to achieve the best power-to-weight ratio, the alpha 9-blade, twin chamber air motor is developed providing significant power and reducing cycle times.

**2001**  
**ULT / UL SERIES**



The new O-ring design improves durability. The roller bearings in the pulse unit increases hydraulic fluid life and the redesigned porting maintains fluid temperature and torque repeatability. The UL tools, are ideal for applications where the lightest, fastest tools are necessary.

**2006**  
**UEP-MC SERIES**



The first and only electric power pulse tool is developed. Combining programmable tool speed with the MC-style transducer making it extremely accurate. Repeatable torque is achieved on a variety of applications.

**2012**  
**UDP-MC CONTROLLED SERIES**



Smaller, lighter electric pulse tools that have an integrated fan unit are developed.

**2013**  
**UA-AMC CONTROLLED PULSE SERIES**



Featuring the angle measurement for improved process control, it detects cross threading, double hits on the same fastener, stripped and damaged fastener threads and incorrect fasteners.

**2013**  
**UAT SERIES**



The patented Auto Relief Technology is developed enabling efficient delivery of torque energy to the application. It responds to ever changing pressures in the pulse unit by applying its energy in a smooth manner to the joint as the torque is developed. The Auto Relief valve is fully open during free run and automatically closes when torque resistance is sensed. No adjustment required.

## 2018 GEN IV ACE CONTROLLER



With AcraDyne's Gen IV ACE Controller Platform you now have the flexibility and freedom to control any AIMCO transducerized pulse tool including Air, Battery, and Electric!

## BENEFITS OF AIMCO PULSE TOOLS

### PRODUCTIVITY

Combining high operating speeds (up to 6700 RPM) with one-handed operation, AIMCO pulse tools help manufacturers produce at the highest possible rates.

### ERGONOMICS

Light weight, low vibration and noise, and no torque reaction make AIMCO pulse tools the safest assembly tools available.

### RELIABILITY

Revolutionary engineered O-Ring design provides long lasting leak free performance between maintenance intervals.

### QUALITY

The most repeatable torque and clamp load results of any assembly tool, AIMCO pulse tools guarantee high product quality.