



## Four-Place JarStar stirrers

Stainless steel "JarStar" stirrers, in production since 1991.

**NOW WITH optional TOUCH SCREEN TECHNOLOGY**

See <https://www.boltac.co.nz/jarstar>

### Four Place

**With 24-month warranty**



### Single Lighting (#450SL).

A superb four place stirrer complete with jars, leads, mouse etc. Features a two-line, 80-character LCD control panel, angled for optimal viewing. JarStar has manual or automatic program abilities.

### Dual Lighting (#450DL).

A superb four place stirrer complete with jars, leads, mouse etc. Featuring the same a two-line, 80-character, angled LCD control panel. JarStar has manual or automatic program ability.

### **\*Lighting details.**

All Boltac stirrers are illuminated by specially designed "no heat transfer" lighting from the base of the machine as standard, (*there is no need to purchase an extra "light box"*). Dual lighting (#450DL) versions have added light from behind the jars also.

### **Stainless steel construction.**

Boltac JarStar Stirrers are constructed from laser cut, TIG welded stainless steel for strength, accuracy, appearance, corrosion resistance and longest possible life. This construction method has been successfully used by Boltac industries since 1991.

Stirrer paddles can be lifted while rotating and can be left in the raised position while the unit is operating.

The spindle bearings are never in contact with the sample.

Square, lightweight 1 litre, graduated polycarbonate stirrer jars are almost indestructible.

### **AutoVolt Select.**

All Boltac JarStar stirrers have automatic voltage selection, operating on either 110-volt or 220-volt AC power supplies (50 to 60 Hz), just "plug 'n play".

Use Boltac stirrers internationally, no voltage worries.

### **JarStar technology – “G-Value”.**

***Different water temperature creates different mixing velocities!***

Boltac stirrers have built-in, selectable, either RPM or “G” Value (water temperature compensation) control. No calculations required to obtain the exact G value in the jar.

The operator simply enters the water temperature of the sample being tested into the stirrer, then enters the G value required. From that point onwards, the JarStar stirrer will run at the precise speed, maintaining the G value required, (an important factor when comparing mix velocities at different temperatures, assuring accurate duplication of tests, even when the water temperature varies from one test date to the next, an important factor when comparing mix velocities/efficacy at different seasonal temperatures).

### **G-Value and RPM settings**

A “manual” non-saved program can be run, then named/saved to become an automatic program, or deleted as required. A mix of G values and rpm can be saved in the same program.

### **Programmability - Menu driven controls.**

As standard, the stirrers have a two-line, 80-character screen featuring mouse/button driven alpha-numeric with active cursor, simply move the mouse and the cursor moves on screen, just like your PC. A menu in the manual guides the operator through the process of programming and running the machine. Control the stirrer using control panel buttons or the mouse supplied (both standard) or now, via touch screen (optional).

### **Number of programs**

The JarStar stirrer has an in-built capacity for up to 30 named programs to be saved within its non-volatile memory.

**Speed range** is 0 to 300 rpm in 1 rpm increments.

**Program steps-** Each program can be saved with up to 99 steps.

**Durations,** each step can be up to 999 minutes duration in 1 sec increments. Reusing a saved program not only saves set-up time but ensures that previous tests and mixing velocities are exactly replicated in subsequent tests. In the case of using G-Value, even if the water temperature has altered, the operator can eliminate spurious results due to using different speeds/ times.

A digital timer indicates the remaining time of each step of the process with a (selectable) audible “BEEP” signalling either event or end of program.

An optional PC connection kit allows for PC control via Windows.

### **NEW- TOUCH SCREEN TECHNOLOGY via Blue Tooth**

Boltac Industries new touch screen allows easy, menu driven control of the stirrer. The touch screen controller, when supplied, is pre-programmed, pre-paired with the stirrer. See the video here: <https://www.boltac.co.nz/jarstar>

### **Machine size.**

Compare the size of Boltac stirrers with others.

Boltac stirrers are extremely robust, smaller, lighter, and easier to relocate if required, i.e. more portable.

Padded shoulder carry straps are available, also, improving portability.

Square, lightweight 1 litre polycarbonate stirrer jars are almost indestructible.

## JarStar. Physical details      Stainless Steel

### #450 (4 place unit)

Dimensions:            L50cm x W24.5 x H37.5cm (19.6in x 10in x 15in)  
Weight                    14Kg. (add 2kg or 4.5 lbs for dual lighting).  
Shipping Weight        15Kg (approximate)

Supply Voltage  
110 or 220 volts AC (50Hz or 60Hz) auto-select.

### Warranty

**NEW** 24-month factory warranty from date of despatch (on client RTB basis).  
Warranty covers faulty components or workmanship. Warranty begins on date of despatch.

Service/advice is available direct from Boltac Industries.

At Boltac, we value the importance of support via telephone or email.

### Optional spares/extras

Pre-programmed Touch-screen controller (via Blue Tooth), (requires the Blue Tooth module).

Blue Tooth module.

Extra Mouse.

Square Jars. – graduated to 1 litre, almost indestructible polycarbonate jars.  
*(Round Pyrex beakers (1 litre) are available upon request).*

Fabric dust cover.

Padded shoulder carry strap.

CD software and leads for PC operation, free software downloadable from  
<https://www.boltac.co.nz>

Boltac Industries manufactured Jar Stirrers are used by water and wastewater treatment plants, chemical suppliers, consultants and engineers, polytechnical and universities all over the world. Email and telephone support are available.

See our website for our full range of jar stirrers <https://www.boltac.co.nz>

**Email or telephone support always available.**

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