

# Surface Bumper Jars

## SURFACE BUMPER JARS

### Overview

The Surface Bumper Jar is installed in the drill string at the surface and is used when-ever the downhole drilling, fishing, or washover running string becomes stuck and requires a heavy downward force to release it. It is often used to free key seated drill pipe and drill col-lars, and initiate sharp jarring blows down the string to actuate drilling bumper subs, bumper safety joints, and other similar downhole bump-ing tools. It is also useful for transmitting heavy downward impact to release imbedded grap-pling tools. Since it is not necessary that the two striking surfaces meet, the tool's 48-inch stroke allows the fish to be hammered down farther than what is possible with conventional jarring tools. Because it is intermittently used only on the surface to release a stuck fish, this tool has an extended service life when compared to conventional bumper subs.

### Construction

The Surface Bumper Jar basically consists of a mandrel assembly working inside a bowl assembly.

### Operation

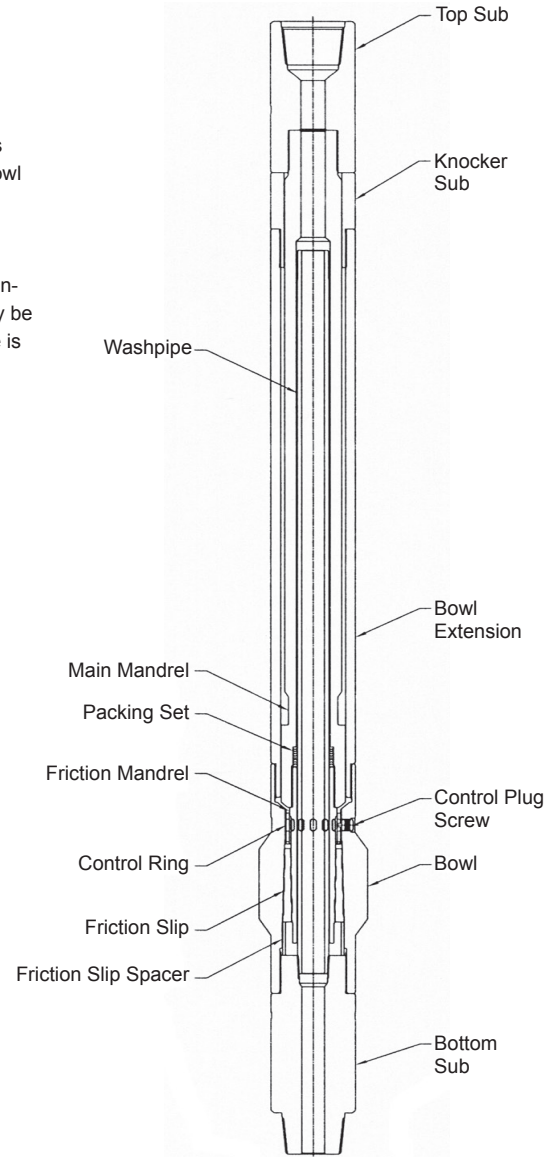
Full circulation through the tool can be main-tained during operation and full torque may be utilized in either direction. The jarring force is set by a simple adjustment.

### When ordering, please specify:

- (1) Name and number of assembly or part
- (2) Connections, if other than standard

### Recommended Spare Parts:

- (1) 2 Washpipes
- (2) 1 Friction Mandrel
- (3) 1 Control Ring
- (4) 1 Friction Slip
- (5) 1 Control Ring Plug
- (6) 6 Packing Sets



<b>TOOL JOINT CONNECTION</b>	4-1/2 API IF
<b>OUTSIDE DIAMETER (INCHES)</b>	7
<b>INSIDE DIAMETER (INCHES)</b>	1-7/8
<b>STROKE</b>	48
<b>COMPLETE ASSEMBLY</b>	<b>609-001</b>
	Bowen No. 74520
<b>TOP SUB</b>	<b>AS1000</b>
	Bowen No. 13587
<b>KNOCKER SUB</b>	<b>AS2000</b>
	Bowen No. 74522
<b>BOWL EXTENSION</b>	<b>AS3000</b>
	Bowen No. 74523
<b>BOWL</b>	<b>AS4000</b>
	Bowen No. 74524
<b>BOTTOM SUB</b>	<b>AS5000</b>
	Bowen No. 74525
<b>MAIN MANDREL</b>	<b>AS6000</b>
	Bowen No. 78609
<b>WASHPIPE</b>	<b>AS7000</b>
	Bowen No. 13588
<b>PACKING SET</b>	<b>AS8000</b>
	Bowen No. 66816
<b>FRICTION MANDREL</b>	<b>AS9000</b>
	Bowen No. 78610
<b>CONTROL RING</b>	<b>AS10000</b>
	Bowen No. 844
<b>FRICTION SLIP</b>	<b>AS11000</b>
	Bowen No. B-236

### REPLACEMENT PARTS

<b>FRICTION SLIP SPACER</b>	<b>AS12000</b>
	Bowen No. 13594
<b>CONTROL RING PLUG</b>	<b>AS13000</b>
	Bowen No. 4144
<b>PLUG &amp; CONTROL RING WRENCH</b>	<b>AS14000</b>
<i>1 with each Assembly</i>	Bowen No. 86
<b>MANDREL SOCKET WRENCH</b>	<b>AS15000</b>
<i>Sold Separately</i>	Bowen No. 14773
<b>LIFTING SUB</b>	<b>AS17000</b>
<i>Sold Separately</i>	Bowen No. 242
<b>FRICTION SLIP LUBE</b>	<b>AS18000</b>
<i>(1 Tube) Sold Separately</i>	Bowen No. 74285