

Jar Testers and Automated Jar Testing Logging System



Forum Energy Technologies' AMC jar testers and automated jar testing logging system can increase the speed and accuracy of the testing process, while helping to ensure that all types of jars meet the stringent criteria required by the production facility.

Jar Testers

Forum jar testers are rugged, self-contained units designed to test the operation of fishing jars, drilling jars and other downhole drilling tools. The horizontal main frame and attached hydraulic cylinder applies tension and compression forces in direct axial alignment with the test piece.

Testers come in customer-specific lengths, up to 45 ft (14m), with the ability to push and pull up to 300,000 lb. Additional lift jacks can be used to safely lower and raise the jar in and out of the test bed for easy access with a forklift. Drip trays can also be attached to the unit to prevent spillage on the work area floor; thus, reducing HSE incidents. The standard unit comes with operational levers on a control panel, but more efficient remote- and radio-controlled options are available.

A computerized logging system can also be added to record test results for log-applied pressure, distance of stroke of ram, and time-to-travel stroke distance. The system provides PDF graph reports, a multiple repeat test function and a wired remote pendant option.

Automated Jar Testing Logging System

The automated jar testing logging system acquires data from a unique clamp on either side of the drilling or fishing jar. A drawstring encoder between the two clamps relays the distance measurement, and a pressure transducer gives the force in psi, which is then converted to lb. When in fully automatic mode, the software can be configured to carry out a set routine of up to six-up and six-down tests, one after another, without any intervention from the operator. This can vary dependent on the type of jar selected.

Various pre-determined values are set for each jar size. Once the sequence is complete, the data is saved and a report is displayed to the operator, outlining whether each test passed or failed the given criteria for the jar.

All machines are delivered with a one-year OEM warranty for peace-of-mind operation. The system is robust enough to withstand virtually every environment, including extreme heat and cold temperatures for extended and prolonged workshop use.

Forum's service parts and calibration equipment are kept in stock at strategically placed locations around the world, which allows its highly trained team of engineers and technicians to immediately respond to customer needs and support operations.

For more information, contact your nearest local Forum representative.

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BENEFITS

- Improves efficiency since the “ruler and stopwatch method” is replaced, and the operator no longer needs to stand over the jar during a test
- Lowers HSE risks, as the system is automated and allows for safe and accurate testing of jars
- Decreases the footprint and enhances flexibility since the self-contained HPU and control console can be located directly next to the machine
- Improves safety and decreases replacement part costs because the HPU works at low pressures
- Enhances visibility of tests because the operator can view results, individually on a report or include up to six on one page for comparison

FEATURES

- Pin-down tool guards with safety contact switch
- Jar lift system (leg-mounted only)
- Optional jar logging system
- Jar criteria includes: ½-in. travel, D2 distance, D2 time, overall time
- Remote pendant options

OPTIONS

- Raised jar tester
- Heavy-duty jar tester
- Standard jar tester



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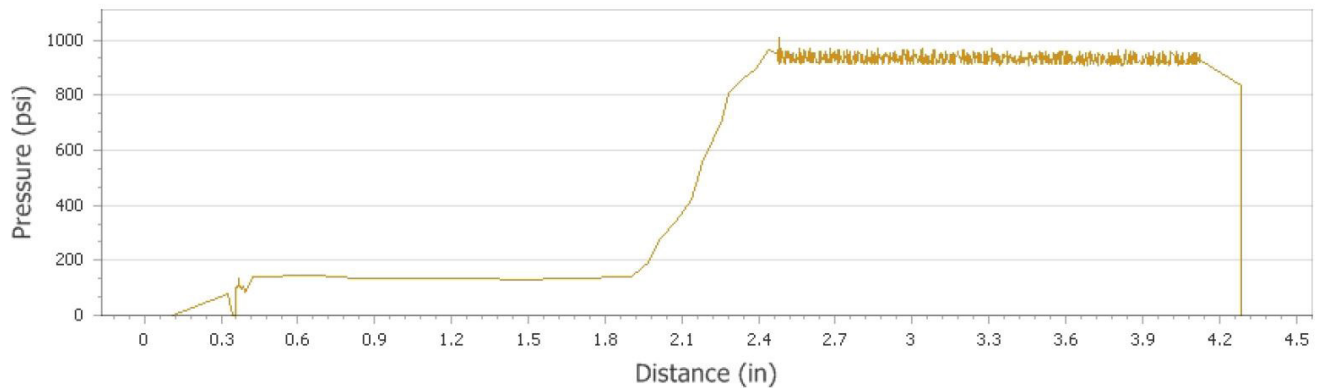
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Jar Test Conformity Report

JAR CRITERIA: 1/2" Travel Time: 26s +/- 5s
 Overall Travel Time: 105s +/- 21s
 D2 Distance: 5/8" +/- 1/4"

Test Date: 18/06/2016
 Operator: S. Hobden
Test Result: PASS

Pressure vs Distance



Test Information	
Test Description	un used test
Jar Description	8" x 3" Jar
Jar Serial #	1762-1531==+
Test Direction	Push
Test #	1
Test Pressure	900PSI

Test Data	
D2 Distance	2-7/16"
Overall Time	102.6 s
1/2" Travel Time	28.6 s
Max Pressure Achieved	1,009PSI