

Roller Bogie[®] Hole Finder

Provides protection and conveyance solution for heavy tools in open hole to prevent toolstring damage and minimize momentum loss

Applications

- Open hole

Features and Benefits

- Extends the envelope for wireline-deployed, high-deviation logging
- Enables delivery of high-quality data through wireline logging
- Improves data quality by eliminating toolstring stick-slip, achieving more constant logging speeds
- Reduces operational cost and risk profile significantly in comparison to pipe-conveyed logging
- Negotiates ledges and washouts that would normally prevent wireline toolstrings from reaching total depth

Tool Description

The Weatherford Roller Bogie hole finder provides the required protection and conveyance solution for heavy tools in open hole, guiding the leading end of the toolstring and minimizing momentum loss.

In openhole operations, the wellbore surface can be irregular and unpredictable. This can present significant challenges to the deployment of wireline tools, particularly as deviation increases. Momentum is lost every time the leading end of the toolstring encounters wellbore irregularities such as ledges or washouts, or debris lying in the low side of the well.

The key to effective openhole conveyance lies in mitigating these challenges at the leading end of the toolstring. Lifting the end of the toolstring off the low side of the wellbore minimizes momentum loss and possible damage from impacts as it is run in hole. Lifting the lower end of the toolstring also prevents or reduces the “snow ploughing” effect when there is debris or sand accumulation in the well.

Where wellbore enlargement is severe, it may be impossible to prevent the toolstring from entering washout zones. In this case, it is essential that the bottom end is equipped with the means of both protecting the toolstring and returning the toolstring effectively to the main wellbore.

Perforating Roller Bogie tools are available in a wide range of sizes to pass through most wellbore restrictions and can be ordered with a choice of connection types to suit individual gun system requirements, including profiled bullnose guides to run at the bottom of wireline toolstrings.



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Specifications

Roller Bogie size	3.850 in. (97.79 mm)	4.000 in. (101.6 mm)	4.350 in. (110.5 mm)	4.750 in. (120.7 mm)	5.500 in. (139.7 mm)
Roller Ball OD	4.350 in. (110.5 mm)	4.750 in. (120.7 mm)	4.750 in. (120.7 mm)	6.500 in. (165.1 mm)	7.125 in. (181.0 mm)
Weight	53 lb (24.04 kg)	55 lb (24.95 kg)	57 lb (25.85 kg)		72.5 lb (32.89 kg)
Length	28 in. (711.2 mm)				
Maximum Tool OD conveyed	3.375 in. (85.73 mm)		3.500 in. (88.90 mm)	3.875 in. (98.43 mm)	4.750 in. (120.7 mm)

Service Type: Standard, Sour, or Severe Sour Service available

Connection Type: Connections available to suit customer specifications

Tool weights and lengths are average values per Roller Bogie size.

Recommended maximum tool OD that can be conveyed using a particular Roller Bogie size.

