



Weatherford®

Fishing Services

A-1 Expandable Underreamer

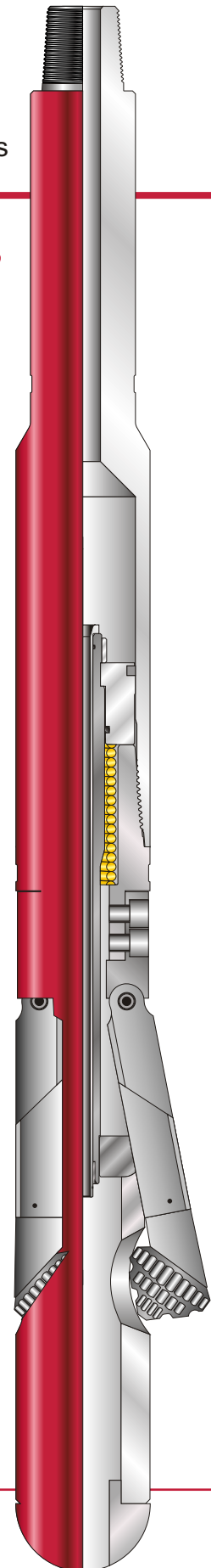
Weatherford's A-1 expandable underreamer is exceptionally fast in opening a hole to provide clearance for running casing, to obtain adequate annular space for cementing, or to enlarge zones for gravel-pack completion. Rock-bit cones on the cutting arms make this simple, rugged tool highly effective.

Applications

- Enlarging hole size for casing cementing operations
- Enlarging zones for gravel packing
- Enlarging hole size for setting a cement plug in sidetrack operations

Features, Advantages and Benefits

- Simple design, with minimal parts and rugged construction, provide trouble-free operation.
- Hydraulic operation eliminates the need for a hard-bottom activation, enhancing operational efficiency.
- Built-in positive stop enables true gauge diameter.
- The ability to enlarge the hole as much as twice the tool diameter in medium or soft formations with one tool provides operational efficiency.
- The A-1 expandable underreamer allows full-volume circulation at all times for hole-cleaning capabilities.





A-1 Expandable Underreamer

Specifications

Casing OD (in./mm)	Tool OD (in./mm)	Opening Range (in./mm)
5-1/2 139.700	4-1/2 or 4-3/4 114.300 or 120.650	6 through 9-1/2 152.400 through 241.300
6-5/8 168.275	5-3/8 136.525	7 through 11 177.800 through 279.400
7 177.800	5-3/4 or 6 146.050 or 152.400	7 through 13 177.800 through 330.200
8-5/8 219.075	7-1/4 184.150	9-1/2 through 15 241.300 through 381.000
9-5/8 244.475	8-1/4 209.550	11 through 17 279.400 through 431.800
10-3/4 or 11-3/4 273.050 or 298.450	9-1/4 234.950	12 through 19 304.800 through 482.600
13-3/8 339.725	11-1/2 292.100	16 through 22 406.400 through 558.800
18-5/8 or 20 473.075 or 508.000	15 381.000	18 through 30 457.200 through 762.000
24 through 30 609.600 through 762.000	22 558.800	26 through 44 660.400 through 1,117.600