

Production logging toolstrings generally require some form of centralization to allow proper flow measurements. Cement bond tools require excellent centralization in order to measure accurate cement bond properties. Hunting's centralizers use multi-arm bow-springs that provide strong centralization when fully open, yet are collapsible to allow passage through completion strings and narrow restrictions.

Centralization of pipe cutters are critical to perform successful and clean cuts. Hunting's rugged centralizers are ideal for these applications.

Collapsible decentralizers are also available for tools requiring eccentricing onto casing walls.

APPLICATIONS

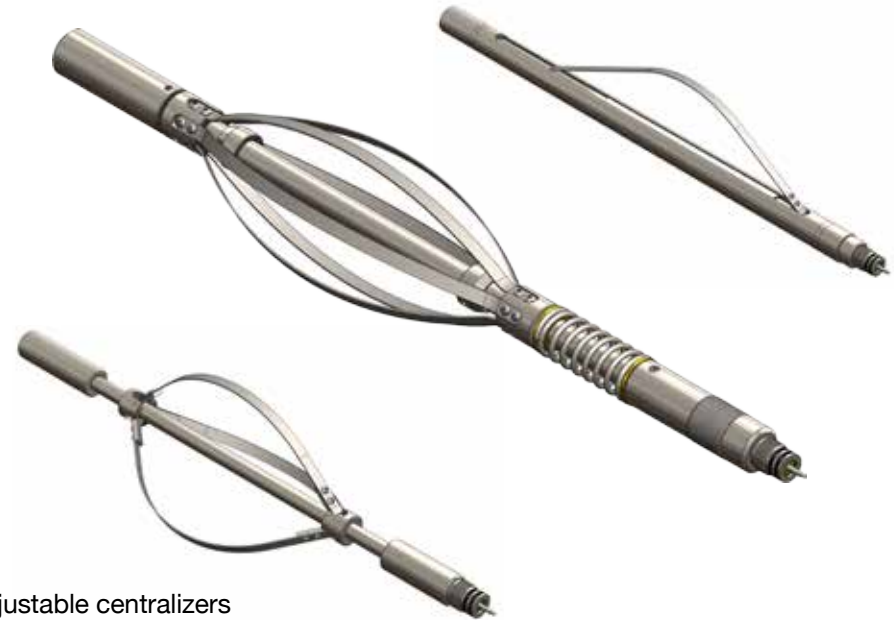
- Pipe recovery
- Production / Cased hole logging
- Thru-tubing perforating
- Wireline steering tool services

FEATURES

- Strong steel mandrel and arms
- Options for adjustable centralizers
- H₂S resistant options available

BENEFITS

- Can vary centralization forces on adjustable centralizers
- Very rigid tools with strong, yet collapsible centralizer arms



HARDWARE SPECIFICATIONS

O.D. (in)[mm]	1-3/8 [35]	1-11/16 [43]			2-3/4 [70]	3-1/8 [79]	
Part Number	5419-000-000	5419-168-100	5419-168-200	5419-168-300	5452-000-010	5419-275-100	5419-312-S600
Type	Centralizer (Bow Spring)	Centralizer (Bow Spring Adjustable)	Centralizer (Bow Spring)	Centralizer (Bow Spring Bottom only)	Decentralizer (Bow Spring)	Centralizer (Bow Spring Adjustable)	Centralizer (Bow Spring Adjustable)
Number of Arms	3	6	3	3	1	4	6
Max. Temp. (°F)[°C]†	400 [204]	400 [204]	400 [204]	400 [204]	400 [204]	400 [204]	400 [204]
Max. Pressure (psi)[MPa]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]
Length (in)[mm]	26.3 [668]	32.9 [836]	29.5 [749]	29.1 [739]	33.0 [838]	34.3 [871]	41.0 [1041]
Weight (lbm)[kg]	6.1 [2.8]	13.9 [6.3]	10.5 [4.8]	10.1 [4.6]	18.5 [8.4]	30.9 [14.0]	48.1 [21.8]
Min. Restriction (in)[mm]	1.56 [40]	2.50 [64]	1.81 [46]	1.81 [46]	1.81 [46]	2.88 [73]	3.50 [89]
Max. Casing Size (in)[mm]	7.00 [178]	9.625 [244]	8.625 [219]	8.625 [219]	7.00 [178]	11.75 [298]	14.5 [368]
Max. Voltage (VDC)	600	600	600	-	600	600	600
Max. Current (mA)	2,000	2,000	2,000	-	2,000	2,000	2,000
Max. Tension (lbf)[kN]	10,000 [44]	35,000 [156]	25,000 [111]	28,000 [125]	56,000 [249]	56,000 [249]	57,000 [254]
Contact Kit Part Number	5419-000-002	5419-0168-112	5419-168-212	-	5452-000-002	5419-275-102	5419-312-KIT
Upper Head Connection	1-3/16"-12 GO Box	1-3/16"-12 GO Box	1-3/16"-12 GO Box	1-3/16"-12 GO Box	1-3/16"-12 GO Box	1-3/16"-12 GO Box	1-3/16"-12 GO Box
Lower Head Connection	1-3/16"-12 GO Pin	1-3/16"-12 GO Pin	1-3/16"-12 GO Pin	-	1-3/16"-12 GO Pin	1-3/16"-12 GO Pin	1-3/16"-12 GO Pin

† Viton O-rings need to be used above 325°F (163°C)