

Logging Casing Collar Locator (CCL)

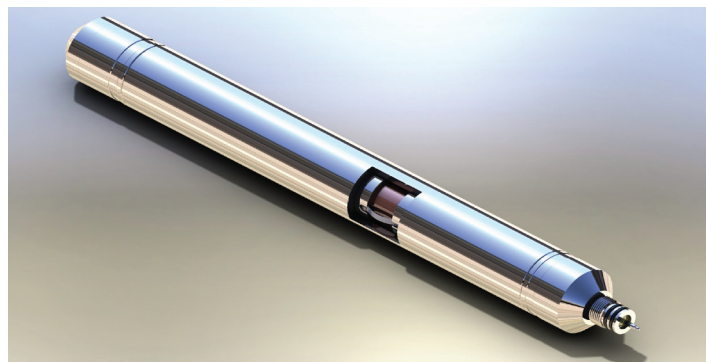
Titan Division | Instruments

Features

- Long life, high strength SmCo₅ magnets
- Alnico 5 magnet construction available for rugged environmental applications

Benefits

- Highly stable, sensitive and responsive CCL over a wide temperature range
- Excellent performance in flush joint casing or tubing
- Minimal CCL log desegregation at increased operating temperatures
- Flexible with a wide range of cased-hole logging services
- Suitable with all Hunting cased-hole logging tools
- Wet wound pick-up coil helps increase durability and minimize failures



Since open hole logs are used to select completion depths, the CCL log becomes a key depth control measurement for perforating, and for helping ensure the depth correlation of other wireline services performed in cased hole.

Hunting's Logging CCL uses Samarium Cobalt (SmCo₅) rare earth magnet material to produce one of the highest amplitude CCL measurement available, and maintains its strength, even at high temperatures. This is especially important in a flush joint casing and tubing environments, as well as logging with tools that must be run centralized in the wellbore.

Hunting's Logging CCL, normally run with a gamma ray, CBL or other cased-hole logging tools, can be used to make a depth correlation between the casing collars, and the open hole log of the well.

SmCo₅ Logging CCL Specifications

	1-11/16 in. (43 mm)	2-3/4 in. (70 mm)	3-1/8 in. (79 mm)	4-1/2 in. (119 mm)
Part Number	8030-16892MC125-1.7-00	8030-27592MC162-1.7-00	8030-31292MC200-2.2-00	8030-45092MC350-03-00
Measurements				
Offset from bottom shoulder (in.)(cm)	7.25 [18.4]	8.25 [21.0]	8.25 [21.0]	8.62 [21.9]
Environmental				
Max. Temp. (°F)(°C)	450 [232]	450 [232]	450 [232]	450 [232]
Max. Pressure (psi)(MPa)	22,000 [152]	22,000 [152]	22,000 [152]	20,000 [138]
Material	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Mechanical				
Outside Diameter (in.)(mm)	1.69 [42.9]	2.75 [69.9]	3.13 [79.4]	4.50 [114.3]
Overall Length (ft)(m)	1.67 [0.51]	1.83 [0.56]	1.83 [0.56]	1.63 [0.50]
CCL to Top Shoulder (in.)(mm)	12.75 [32.4]	13.75 [34.9]	13.75 [34.9]	10.85 [27.5]
CCL to Housing End (in.)(mm)	5.5 [13.9]	5.62 [14.2]	6.5 [16.5]	6.37 [16.1]
CCL to Bottom Shoulder (in.)(mm)	7.25 [18.4]	8.25 [20.9]	8.25 [20.9]	8.62 [21.8]
Weight (lb)(kg)	9 [4]	33 [15]	40 [18]	75 [34]
Max. Tension (lbf)(kN)	65,000 [289]	65,000 [289]	65,000 [289]	65,000 [289]
Top • Bottom Connection	1-3/16 in. GO Box • 1-3/16 in. GO Pin	1-3/16 in. GO Box • 1-3/16 in. GO Pin	1-3/16 in. GO Box • 1-3/16 in. GO Pin	1-3/16 in. GO Box • 1-3/16 in. GO Pin
Electrical				
Operating Voltage & Current	120VDC @ 2mA	120VDC @ 2mA	120VDC @ 2mA	120VDC @ 2mA

**Alnico 5 Logging CCL Specifications - Positive**

	1 in. [25 mm]	1-3/8 in. [35 mm]	1-11/16 in. [43 mm]	2-3/4 in. [70 mm]	3-1/8 in. [79 mm]	4-1/2 in. [119 mm]
Part Number	8130-10072MC073-03-00	8130-13772MC103-02-00	8130-168B2MC129-02-00	8130-275B2MC210-03-00	8130-312B2MC250-03-00	8130-450B2MC350-03-00
Measurements						
Offset from bottom shoulder (in.)[cm]	6.8 [17.3]	8.3 [21.1]	8.6 [21.8]	10.0 [25.4]	9.5 [24.1]	10.4 [26.4]
Environmental						
Temperature Rating (°F)[°C]	400 [204]	400 [204]	500 [260]	500 [260]	500 [260]	500 [260]
Max. Pressure (psi)[MPa]	15,000 [103]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]	20,000 [138]
Material	Beryllium Copper	Beryllium Copper	Stainless Steel	Stainless Steel	Stainless Steel	Stainless Steel
Mechanical						
Outside Diameter (in.)[mm]	1.00 [25.4]	1.38 [34.9]	1.69 [42.9]	2.75 [69.9]	3.13 [79.4]	4.50 [114.3]
Overall Length (ft)[m]	1.67 [0.51]	1.79 [0.55]	1.83 [0.56]	2.15 [0.66]	1.64 [0.50]	1.72 [0.52]
CCL to Top Shoulder (in.)[mm]	13.18 [33.48]	13.18 [33.49]	13.45 [34.16]	15.85 [40.25]	10.16 [25.80]	10.25 [26.04]
CCL to Housing End (in.)[mm]	5.82 [14.78]	6.19 [15.73]	4.93 [12.52]	7.47 [18.96]	5.84 [14.84]	6.50 [16.51]
CCL to Bottom Shoulder (in.)[mm]	6.82 [17.32]	8.32 [21.12]	8.55 [21.72]	9.97 [25.31]	9.47 [24.05]	10.37 [26.35]
Weight (lb)[kg] {Hi Temp}	2 [0.9]	7.5 [3.4]	10 [4.5]	30 [14]	36 [16]	75 [34]
Max. Tension (lbf)[kN]	65,000 [289]	65,000 [289]	65,000 [289]	65,000 [289]†	65,000 [289]	65,000 [289]
Top • Bottom Connection	1-3/16 in. GO Box •	1-3/16 in. GO Box •	1-3/16 in. GO Box •	1-3/16 in. GO Box •	1-3/16 in. GO Box •	1-3/16 in. GO Box •
	1-3/16 in. GO Pin	1-3/16 in. GO Pin	1-3/16 in. GO Pin	1-3/16 in. GO Pin	1-3/16 in. GO Pin	1-3/16 in. GO Pin
Electrical						
Operating Voltage & Current	+120 VDC @ 12±2 mA	+120 VDC @ 12±2 mA	+50 to +120 VDC @ 12±2 mA	+50 to +120 VDC @ 12±2 mA	+50 to +120 VDC @ 12±2 mA	+50 to +120 VDC @ 12±2 mA
Available Options	Negative Power	Negative Power		Fish Neck Top Sub	Fish Neck Top Sub	

Alnico 5 Logging CCL Specifications - Positive, Negative and Constant Current

	1-3/8 in (35mm)	1-11/16 in (43 mm)
Part Number	8131-13772MC103-02-00	8131-16872MC129-02-00
Measurements		
Offset from bottom shoulder (in.)[cm]	8.3 [21.1]	8.6 [21.8]
Environmental		
Temperature Rating (°F)[°C]	400 [204]	400 [204]
Max. Pressure (psi)[MPa]	20,000 [138]	20,000 [138]
Material	Beryllium Copper	Inconel Steel
Mechanical		
Outside Diameter (in.)[mm]	1.38 [34.9]	1.69 [42.9]
Overall Length (ft)[m]	1.79 [0.55]	1.83 [0.56]
CCL to Top Shoulder (in.)[mm]	13.18 [33.49]	13.45 [34.16]
CCL to Housing End (in.)[mm]	6.19 [15.73]	4.93 [12.52]
CCL to Bottom Shoulder (in.)[mm]	8.32 [21.12]	8.55 [21.72]
Weight (lb)[kg] {Hi Temp}	7.5 [3.4]	7 [3.2]
Max. Tension (lbf)[kN]	65,000 [289]	65,000 [289]
Top • Bottom Connection	1-3/16 in. GO Box •	1-3/16 in. GO Box •
	1-3/16 in. GO Pin	1-3/16 in. GO Pin
Electrical		
Operating Voltage & Current	120 VDC @ 10±2 mA	120 VDC @ 10±2 mA

Optional Adapters for Alnico 5 CCL

O.D. (in.)[mm]	Assembly Part #	Contact Kit	Upper Head Adapter
2-3/4 [70]	8130-275-110	8100-000-012	1-3/16 in.-12 GO Box with 2 in.-6 Acme fishing neck thread
	0257-200-S03	-	1-3/16 in.-12 GO Box with 2 in.-6 Acme fishing neck thread
3-1/8 [79]	0257-000-007	-	1-5/8 in.-6 Acme Box
	3890-000-130	5401-000-032	3-1/8 in. O.D. Sinker Bar Assembly
4-1/2 [114]	0266-000-002	-	1-5/8 in.-6 Acme Box
	0266-000-120	0257-000-332	1-3/16 in.-12 GO Box with 2 in.-6 Acme fishing neck thread

About Hunting's Titan Division

For successful cased hole logging and perforating services, tool reliability, availability, and time line of delivery are essential. Hunting supplies customers worldwide with the right tools to get the job done. Our product lines include state of the art, high quality wireline and tubing conveyed perforating (TCP) gun systems, hardware and accessories, shaped charges, and electronic logging tools.