



## QuickCut™ Casing Exit System RMN-Type or RHN-Type Anchor\*

The latest generation of Weatherford’s high-performance QuickCut casing exit system is now anchored by the innovative high-expansion MultiCatch™ whipstock anchor to provide a high-performance, single-trip re-entry system that can save time and reduce installation costs and risks.

The simple, yet versatile, MultiCatch anchor increases standard catch ranges by two to three casing sizes and is mechanically or hydraulically actuated from a single component. The anchor’s robust design delivers the enhanced radial anchoring capability required for increased milling performance in highly compressive formations. The MultiCatch device can anchor and interchange with all Weatherford concave assemblies with or without the shear-release option.

The casing-catch range and aggressive single-trip lead-mill geometry make this the most versatile, efficient, and cost-effective re-entry system available today.

### Applications

- Sidetracks
- High- and low-side casing exits
- Casing exits through multiple strings of casing
- Wells with multiple string weights or wellbore restrictions
- Extended-reach-drilling (ERD) wells with high-casing-wall loss
- Brownfield wells for accessing bypassed or behind-pipe reserves
- Horizontal installations or wells with high dogleg severity (DLS)
- Multilateral installations in which retrieval is critical

Retrievable or Permanent	*Anchor Type	
	Hydraulic or Mechanical	Sealing or Nonsealing
Retrievable	Mechanical	Nonsealing
Retrievable	Hydraulic	Nonsealing





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### *RMN-Type or RHN-Type Anchor*

### *Features, Advantages and Benefits*

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- Functionality is not dependent on, or limited by, exact casing ID. One size anchor can catch multiple sizes of casing, reducing the risk associated with wellbore obstructions or restrictions.
- Aggressive lead-mill geometry provides full-gauge windows and ratholes with single-trip efficiency, reducing rig time and costs.
- Unique lug technology protects the whipstock during cut-out and accurately directs the lead mill into the casing wall.
- The 3° single-angle concave generates a smooth transition from the parent bore into the lateral section, eliminating downtime caused by transition problems.
- Casing exits can be created independently of the hole azimuth, making high- and low-side exits possible up to 9 5/8-in. casing.
- The single-anchor platform can be actuated mechanically or hydraulically to enable complete well control while circulating, logging, or conducting measurement-while-drilling orientation. In addition, hydraulic actuation removes the need for a false bottom, saving the cost of bridge plug installation.
- The MultiCatch™ anchor is interchangeable with all Weatherford concave profiles in all casing configurations, providing operational flexibility.
- The multiple methods of retrieval possible with this system are vitally important for multilateral installations, in which retrieval success is imperative.
- This system may include a QuickChange™ shear disconnection, providing debris management as well as the capability to change from one anchor type to another.



## *QuickCut™ Casing Exit System*

### *RMN-Type or RHN-Type Anchor*

## *Specifications*

### Milling Assemblies

Casing OD (in./mm)	Casing Weight (lb/ft, kg/m)	Concave OD (in./mm)	Lead Mill OD (in./mm)	Lead Mill Pilot OD (in./mm)	Flex Mill OD (in./mm)	Lead Mill Connection Type (in.)	Flex Mill Connection Box x Pin (in.)	MultiCatch™ Anchor OD (in./mm)
4-1/2 114.3	9.5 to 11.6 14.2 to 17.3	3-1/2 88.9	3-7/8 98.4	3 76.2	3-7/8 98.4	2-3/8 Reg box	2-3/8 Reg box x 2-3/8 Reg pin	3-1/2 88.9
	13.5 20.1		3-3/4 95.3		3-3/4 95.3			
	15.1 22.5		3.70 94.0		3.70 94.0			
5 127.0	18.0 26.8	3-1/2 88.9	4-1/8 104.8	3 76.2	4-1/8 104.8	2-3/8 Reg box	2-3/8 Reg box x 2-3/8 Reg pin	3-1/2 88.9
	23.2 34.6		3-7/8 98.4		3-7/8 98.4			
5-1/2 139.7	14.0 20.9	4-1/2 114.3	4-7/8 123.8	3-3/4 95.3	4-7/8 123.8	2-7/8 Reg box	2-7/8 AOH box x 2-7/8 Reg pin	3-1/2 88.9
	15.5 to 17.0 23.1 to 25.3		4-3/4 120.7		4-3/4 120.7			
	20.0 29.8	4-1/4 108.0	4-5/8 117.5	3-3/8 58.7	4-5/8 117.5	2-7/8 Pac box	2-7/8 AOH box x 2-7/8 Pac pin	
	23.0 34.3		4-1/2 114.3		4-1/2 114.3			
5-3/4 146.1	17.6 to 21.5 26.2 to 32.0	4-1/2 114.3	4-7/8 123.8	3-3/4 95.3	4-7/8 123.8	2-7/8 Reg box	2-7/8 AOH box x 2-7/8 Pac pin	3-1/2 88.9
6-5/8 168.2	17 25.3	5-1/2 139.7	6 152.4	4-5/8 117.5	6 152.4	3-1/2 Reg box	3-1/2 IF box x 3-1/2 Reg pin	5-1/4 133.4
	20 29.8		5-7/8 149.2		5-7/8 149.2			
	28 41.7	5-1/4 133.4	5-5/8 142.9	3-7/8 98.4	5-5/8 142.9			
	32 47.7		5-1/2 139.7		5-1/2 139.7			



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### *Specifications (continued)*

#### Milling Assemblies

Casing OD (in./mm)	Casing Weight (lb/ft, kg/m)	Concave OD (in./mm)	Lead Mill OD (in./mm)	Lead Mill Pilot OD (in./mm)	Flex Mill OD (in./mm)	Lead Mill Connection Type (in.)	Flex Mill Connection Box × Pin (in.)	MultiCatch™ Anchor OD (in./mm)
7 177.8	20.0 29.8	5-1/2 139.7	6-1/4 158.8	5 127.0	6-1/4 158.8	3-1/2 Reg box	3-1/2 IF box × 3-1/2 Reg pin	5-1/4 133.4
	23.0 to 26.0 34.3 to 38.8		6-1/8 155.6		6-1/8 155.6			
	29.0 43.2		6 152.4	4-5/8 117.5	6 152.4			
	32.0 to 35.0 47.7 to 52.1		5-7/8 149.2		5-7/8 149.2			
	38.0 56.6		5-3/4 146.1		5-3/4 146.1			
7-5/8 193.7	24.0 35.8	6-1/4 158.8	6-7/8 174.6	5-3/8 136.5	6-7/8 174.6	3-1/2 Reg box	3-1/2 IF box × 3-1/2 Reg pin	5-1/4 133.4
	26.4 to 29.7 39.3 to 44.3		6-3/4 171.5		6-3/4 171.5			
	33.7 50.2	6 152.4	6-5/8 168.3	5-1/8 130.2	6-5/8 168.3			
	39.0 58.1		6-1/2 165.1		6-1/2 165.1			
8-5/8 219.1	24.0 35.8	7 177.8	7.875 200	6.125 155.5	7.875 200	4 FH	4-1/2 XH box × 4 FH pin	7 177.8
	28.0 41.8		7.750 196.8		7.750 196.8			
	29.35 43.7							
	32.4 48.3							
	36.0 53.6							
	38.0 56.6							



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## Specifications (continued)

### Milling Assemblies

Casing OD (in./mm)	Casing Weight (lb/ft, kg/m)	Concave OD (in./mm)	Lead Mill OD (in./mm)	Lead Mill Pilot OD (in./mm)	Flex Mill OD (in./mm)	Lead Mill Connection Type (in.)	Flex Mill Connection Box × Pin (in.)	MultiCatch™ Anchor OD (in./mm)
9-5/8 244.5	32.3 48.1	8 203.2	8-7/8 225.4	7 177.8	8-7/8 225.4	4-1/2 Reg box	4-1/2 IF box × 4-1/2 Reg pin	7 177.8
	36.0 53.6		8-3/4 222.3		8-3/4 222.3			
	40.0 59.6		8-5/8 219.1		8-5/8 219.1			
	43.5 to 53.5 64.8 to 79.7		8-1/2 215.9	6-3/8 161.9	8-1/2 215.9			
	58.4 87.0		8-1/4 209.6		8-1/4 209.6			
13-3/8 339.7	48.0 to 72.0 SD 71.5 to 107.3 SD	11-1/2 292.1	12-1/4 311.2	10 254.0	12-1/4 311.2	6-5/8 Reg box	6-5/8 Reg box × 6-5/8 Reg pin	10 254.0
16 406.4	55.0 to 84.0 82.0 to 125.2	14 355.6	14-3/4 374.7	12-1/4 311.2	14-3/4 374.7	7-5/8 Reg box	7-5/8 Reg box × 7-5/8 Reg pin	14 355.6
18-5/8 473.1	78.0 to 94.5 116.2 to 140.8	17 431.8	17-1/2 444.5	14-1/4 361.95	17-1/2 444.5			
	96.5 to 138.0 143.8 to 205.6		17 431.8		17 431.8			
20 508.0	90.0 to 187.0 134.1 to 278.6		17-1/2 444.5		17-1/2 444.5			



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**Specifications (continued)**

**Anchor Assemblies**

Casing		Whipstock OD (in./mm)	MultiCatch™ Anchor						
OD (in./mm)	Weight (lb/ft, kg/m)		Running OD (in./mm)	Maximum Torque (ft-lb/N·m)	Mechanical Shear (lbf/daN)	Running Length		Overpull	
						With QuickChange™ Sub (ft/m)	Without QuickChange Sub (ft/m)	To Release Anchor (lbf/daN)	To Shear Concave (lbf/daN)
4-1/2 114.3	9.5 to 15.1 14.2 to 22.5	3-1/2 88.9	3-1/2 88.9	5,000 6,779	3,900 1,735	4.9 1.5	3.2 1.0	10,000 4,448	60,000 26,688
5 127.0	18.0 to 23.2 26.8 to 34.6								
5-1/2 139.7	14.0 to 17.0 20.9 to 25.3	4-1/2 114.3	3-1/2 88.9	5,000 6,779	3,900 1,735	4.9 1.5	3.2 1.0	10,000 4,448	60,000 26,688
	20.0 to 23.0 29.8 to 34.3	4-1/4 108.0							
5-3/4 146.1	17.6 to 21.5 26.2 to 32.0	4-1/2 114.3	3-1/2 88.9	5,000 6,779	3,900 1,735	4.9 1.5	3.2 1.0	10,000 4,448	60,000 26,688
6-5/8 168.3	17.0 to 20.0 25.3 to 29.8	5-1/2 139.7							
	7 177.8	17.0 to 35.0 25.3 to 52.2	5-1/2 139.7	5-1/4 133.3	10,000 13,558	13,500 6,005	6.5 2.0	4.4 1.3	14,000 6,227
38.0 56.6									
7-5/8 193.7	20.0 to 29.7 29.8 to 44.3	6-1/4 158.7	5-1/4 133.3	10,000 13,558	13,500 6,005	6.5 2.0	4.4 1.3	14,000 6,227	100,000 44,480
	33.7 to 39.0 50.2 to 58.1	6 152.4							

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### Specifications (continued)

#### Anchor Assemblies

Casing		Whipstock OD (in./mm)	MultiCatch™ Anchor						
OD (in./mm)	Weight (lb/ft, kg/m)		Running OD (in./mm)	Maximum Torque (ft-lb/N·m)	Mechanical Shear (lbf/daN)	Running Length		Overpull	
						With QuickChange™ Sub (ft/m)	Without QuickChange Sub (ft/m)	To Release Anchor (lbf/daN)	To Shear Concave (lbf/daN)
8-5/8 219.1	24.0 to 38.0 35.8 to 56.6	7 177.8	7 177.8	20,000 27,116	13,500 6,005	7.7 2.3	6.1 1.9	18,000 8,006	125,000 55,600
9-5/8 244.5	32.3 to 58.4 48.1 to 87.0	8 203.2							
10-3/4 273.1	32.8 to 65.7 48.9 to 97.9	9 228.6							
11-3/4 298.5	38.0 to 60.0 56.6 to 89.4	10 254.0	10 254.0	20,000 27,116	13,500 6,005	11.9 3.6	9.1 2.8	20,000 8,896	150,000 66,720
13-3/8 339.7	48.0 to 72.0 SD 71.5 to 107.3 SD	11-1/2 292.1							
16 406.4	55.0 to 84.0 82.0 to 125.2	14 355.6	14 355.6	85,000 115,245	25,000 11,120	14.6 4.5	N/A*	30,000 13,344	150,000 66,720
18-5/8 473.1	78.0 to 94.5 116.2 to 140.8	17 431.8							
20 508.0	90.0 to 187.0 134.1 to 278.6								

\*No QuickChange feature. Shear-out is integral to the anchor body.



Set (milling)



Unset (running in)