Wellbore Integrity SOLUTIONS

Casing Mill

Efficient and reliable removal of downhole casing strings.

APPLICATIONS

- Plug and abandonment (P&A) operations
- Removing long sections of cemented casing, tubing or liner

BENEFITS

- Carbide inserts with continuous chip breaker technology
- Variable blade length for different applications
- Stabilized body for optimum performance
- Larger size with lower pilot mill to stabilize and remove obstructions in the casing ID

MILLING INSERT OPTIONS

- **Millmaster (P5):** Standard grade offering for all milling applications
- **WavEdge*:** High-quality inserts with improved ROP
- **TruEdge*:** Premium grade with improved ROP, high durability, and wear resistance

Casing Mill

The casing mill is a tool that has been solely designed for the efficient removal of downhole casing strings. The blade is manufactured from high-grade alloy steel and positions the cutting edge at the precise angle for maximum cutting and milling efficiency. Extended blade length provides maximum footage per mill.

The cutting structure consists of optimized milling inserts technology specially developed for downhole application that prevents premature wear and breakage. The inserts are engineered based on extensive lab analyses and field history to provide good cutter durability and wear resistance.

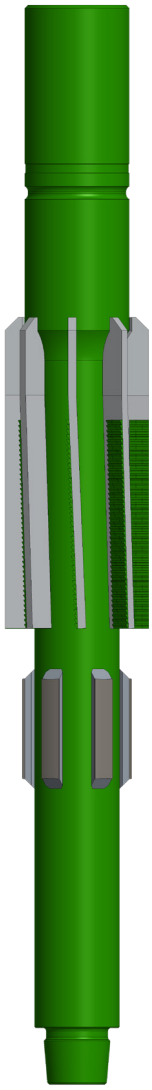
The cutting structure ensures maximum ROP, ideal cutting size, and extended milling duration.

7 Inches and Smaller

Casing mills in this size range have a round body dressed with wear-resistant tungsten carbide, stabilizing the mill inside the casing. The continuous chip breaker design generates steel cuttings that can easily be circulated out of the hole with a minimum of specialized mud conditioning required.

9⅝ Inches and Larger

The 9⅝ inch and larger casing mills use welded blade stabilizer pads to ensure the mill tracks straight down the casing stub. These larger diameter mills are best suited to high RPM with moderate weight-on-bit, and in ideal conditions are capable of milling long sections of casing.



Casing Mill

Casing Mill

Casing Mill Specifications				
Casing Size in. [mm]	Blade Diameter in. [mm]	Top Connection in.	Fishing Neck OD in. [mm]	Overall Length in. [cm]
4 ½	5.25 [133.35]	3 ½ REG	4.25 [107.95]	41 [104.14]
5 ½	6 .125 [155.57]	3 ½ API	4.75 [120.65]	43 [109.22]
6 ⅝	7.515 [190.88]	4 ½ API	6.50 [165.10]	65 [165.10]
7	7.75 [196.85]	4 ½ API	6.50 [165.10]	82 [208.25]
7 ⅝	8.80 [223.52]	4 ½ API	6.50 [165.10]	82 [208.25]
9 ⅝	10.80 [274.32]	6 ⅝ REG	8.00 [203.20]	79 [200.66]
10 ¾	12.0 [304.80]	6 ⅝ REG	8.00 [203.20]	73 [185.42]
13 ⅜	14.50 [368.30]	7 ⅝	9.52 [241.81]	79 [200.66]
13 ⅝	14.50 [368.30]	7 ⅝	9.52 [241.81]	73 [185.42]
14	14.50 [368.30]	7 ⅝	9.50 [241.30]	73 [185.42]
16	17.25 [438.15]	7 ⅝	9.50 [241.30]	86 [218.44]
18 ⅝	20.50 [520.70]	7 ⅝	9.50 [241.30]	89 [226.06]
20	21.25 [539.75]	7 ⅝	9.50 [241.30]	81 [205.74]

**Refer to Well Abandonment Selection guide for detail information*

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