

Mechanical Pipe Cutter

Achieve fast and effective recovery of downhole pipe

The Mechanical Pipe Cutter™ (MPC™) solution from Baker Hughes reduces logistical and environmental constraints of stuck pipe or pipe recovery operations. It provides precise, downhole pipe cutting electromechanically, without the use of ballistics or hazardous chemicals. The MPC performs clean cuts with less debris and no damage to external tubulars or control lines, reducing nonproductive time (NPT), personnel risk, and overall intervention costs.

Cutting penetration is continuously measured and controlled from the surface, confirming the cut has been made successfully and avoiding needless trips out of hole. The cutter's temperature and pressure ratings enable pipe cutting in hotter and deeper environments, while eliminating additional time-consuming pipe recovery operations. The unlimited settings are controlled by the surface

computer system and multiple cuts can be made in one trip, saving time and rig costs. Compared to conventional cutters, the MPC cuts a wider range of pipe sizes and types, including steel, alloy (chrome), and Inconel®.

The MPC is easily transportable. It ships in two 10-ft (6-m) sections for quick deployment to offshore or remote locations. The cutter's small diameter makes it suitable for restricted areas, and it can be used with Baker Hughes wireline, tractor, and **TeleCoil™ intelligent coiled tubing services**.

To learn more about how the Baker Hughes Mechanical Pipe Cutter can recover pipe safely and economically, contact your Baker Hughes representative.

Applications

- Difficult or controlled pipe recovery situations
- Downhole pipe sizes 2 7/8-in. to 7-in.
- Precise cuts in offshore or remote wells

Benefits

- Saves time and rig costs
- Prevents damage to outer strings
- Cuts a wide range of pipe types and diameters
- Reduces logistical and environmental risks
- Transports easily

MPC specifications

Tool length	18.16 ft (5.54 m)
Two sections	8.33 ft (2.54 m)
	9.83 ft (3 m)
Tool diameter	2 1/8-in. (54 mm) tool cuts 2 7/8-in. (73 mm) to 4-in. (102 mm) pipe
	2 1/2-in. (64 mm) tool cuts 4-in. (102 mm) to 4 1/2-in. (114 mm) pipe
	3 1/4-in. (83 mm) tool cuts 4-in. (102 mm) to 7-in. (178 mm) pipe
Rating	392°F (200°C) and 25,000 psi (1,724 bar)
Current pipe cutting sizes	2 7/8-in. (73 mm) to 7-in. (178 mm) pipe
Maximum wall thickness	0.5-in. (12.7 mm) – 2 1/8-in. (54 mm) tool
	0.68-in. (17.3 mm) – 2 1/2-in. (64 mm) tool
	0.75-in. (19.1 mm) – 3 1/4-in. (83 mm) tool



The multiple, clean cuts provided by the MPC eliminate additional fish milling and ensure efficient pipe recovery operations.