

MPC DUO advanced application tubing cutter

Get precise slot cuts and full pipe cuts from one tool in a single run

The industry-leading **Mechanical Pipe Cutter (MPC™)** is noted for its ability to cleanly and safely cut many types of oilfield pipe without using ballistics.

The **MPC InCision™ slot cutter** enables a precise punch/slot opening in tubing or casing again without the use of explosives.

The **MPC DUO™ advanced application tubing cutter** from Baker Hughes combines the functionality of both, enabling a full pipe cut and the ability to create orientated slot cuts downhole in the same trip. The tool is suitable for well intervention situations where equalization between annuli or flow area communication is a requirement. The MPC InCision functionality enables the tool to make 360° orientated slots in the downhole pipe for optimal flow efficiency. Telemetry data enables the cutting blade's position and progress to be monitored in real time, confirming each slot dimension has been made for accurate flow creation and in a controlled manner without damaging outer strings or screens.

The tool can make multiple incisions at the same depth with no need to close anchors or re-correlate. And, with no need to pull out of hole to reconfigure or change the tool, switching from InCision to full cut mode can be made downhole when required.

Additional features include:

- Variants cut from 2⁷/₈-in. to 7-in. OD pipe
- Surface software monitored and controlled in real time
- Small metal filings (0.1 mm) enable easy cleanup
- Applicable for use in a wide variety of metallurgies including steel, Inconel, and chrome
- Safely transportable for easy mobility and setup

To learn more about how the Baker Hughes MPC DUO can save cutting time and costs on your intervention operation, contact your Baker Hughes representative or visit bakerhughes.com.

Applications

Well intervention situations where either a full cut is required or equalization between annuli and or flow area communication is a necessity for circulation, cement squeezes or clean-up of scale

Benefits

- Cuts downhole pipe precisely without the use of ballistics or hazardous chemicals
- Enables orientated incisions, allowing 360° distribution of cleaning fluid/cement when pumped downhole
- Saves rig time and overall costs by enabling both orientated slot cutting and full pipe cutting from one tool in a single trip without tool reconfiguration between cuts

Specifications

MPC DUO	2.125 in. tool	3.25 in. tool
Pipe size range	2.875 in. to 4.5 in. (73 mm to 114 mm) OD	4 in. to 7 in. (102 mm to 178 mm) OD
Tool diameter	2.125 in. for cutting 2.875 to 4 in. (73 mm to 102 mm) OD pipe; 2.5 in. for cutting 4.50 in. (114 mm) OD pipe	3.25 in. for cutting 4 in. to 7 in. (102 mm to 178 mm) OD pipe
Maximum wall thickness	.50 in. with up to 50 mm blade; .625 in. with 60 mm blade	.75 in. with 63 mm blade
Centralization	3 hydraulically powered anchor arms	
Temperature rating	392°F (200°C) for 1 hr	
Pressure rating	Standard tool 25,000 psi High-pressure tool 30,000 psi	
Tool makeup length	18 ft (5.5 m) total; electronics - 9.25 ft (2.8 m), mandrel 8.625 ft (2.6 m)	
Tool weight	141 lb (67 kg)	157 lb (71.2 kg)
Maximum power requirements	750 VDC, 1.2A	