

# HERCULES multistring cutter

Cut through multiple or large-diameter strings of casing more efficiently

## Applications

- Casing repair
- Subsea applications

## Features and benefits

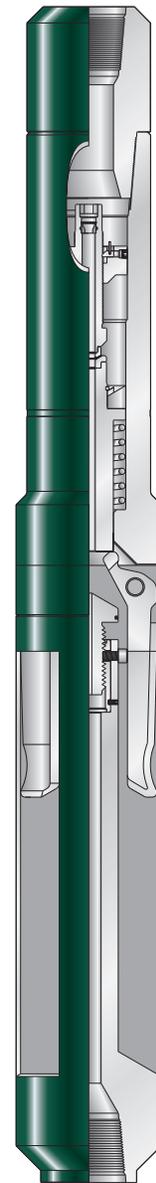
- Solid body design
  - Can withstand extreme shock loads during cutting
- Pressure indicator
  - Can be adjusted without taking the tool apart
  - Saves time and expense
- Positive adjustment screw
  - Can be set for mechanical lock on knives
  - Allows for single-string cuts with minimal contact to the outer string
- Large piston area
  - Reduces amount of surface pressure required to operate cutter
- Knives can easily be changed on rig floor
  - Saves time and expense
- Standard bit nozzle sizes
  - Reduce expense through interchangeability

The Baker Hughes **HERCULES™ multistring cutter** is a hydraulically operated, solid-body tool used to cut through multiple strings of casing or large-diameter strings quickly and safely. The three knives of the HERCULES multistring cutter are normally dressed with either **SUPERLOY™ high-strength material** or **METAL MUNCHER™ advanced milling technology (AMT)** inserts and are 30% stronger than standard multistring cutters. The HERCULES cutter can be used in any cutting application where rotation and pressure can be applied to the tool.

The HERCULES multistring cutter is hydraulically operated by drilling fluid pressure acting against a piston. The necessary pressure differential is established by the flow rate of the drilling or workover fluid through the indicator nozzle. The nozzle size can be adjusted as necessary to produce a sufficient pressure differential depending on the fluid pump flow rate available.

Standard bit nozzle sizes are used for convenient interchangeability. At sufficient pressure differential, the piston moves against the compression spring and contacts the knife heel, moving the knives into cutting position.

The continued movement of the piston forces the knives to pivot about the knife pins. When the knives are near full extension, the indicator contacts the indicator stop. At this point, drilling fluid begins to flow freely through the indicator, which results in a sudden



HERCULES multistring cutter  
Product family no. H17009

pressure drop, signaling the operator the knives are fully extended.

In subsea applications, a marine swivel or universal wellhead recovery system is required. When casing repair operations are performed for a slot recovery, safeguards must be taken to ensure the outer casing is not damaged. For this type of operation, the HERCULES multistring cutter can also be mechanically controlled by the positive adjustment screw, which is installed below the knives to limit the maximum knife extension.

Contact your Baker Hughes representative today HERCULES multistring cutter helps you effectively cut and retrieve drillpipe.

<b>Specifications</b>				
Designed to cut		Top connection	Tool outside diameter	
in.	mm		in.	mm
9-5/8-30	244.5-762.0	6-5/8 in. API Reg	8.250	209.6
13-3/8-48	339.7-1219.2	6-5/8 in. API Reg	11.750	298.5
18-60	457.2-1066.8	7-5/8 in. API Reg	16.000	406.8

