

# Perseus pump-through cutter

## Do more in one run, reduce costs and risks by half

The **Perseus™ pump-through cutter**, from Baker Hughes, a GE company (BHGE), is hydraulically operated and designed to cut a single string of casing on command with 100% flow and pressure integrity below the tool for secondary procedures, enabling multiple operations in a single run, saving rig time and associated costs.

Dressed with **METAL MUNCHER™ Advanced Milling Technology (AMT)** knives, the Perseus tool provides the industry's most durable, effective cutting and swarf control tungsten-carbide to cut or mill even the toughest steels, effectively enabling a customer to mill more volume in one run.

The Perseus cutting tool remains dormant and retracted for easy downhole manipulation. The pressure integrity is maintained while a plug is set either mechanically or hydraulically. After the successful deployment of the plug is the cutting sequent activated.

When the Perseus cutter is run above a mill or drill bit, the unique internal design of the cutter enables 100% flow through and maintains

pressure integrity without knife activation. In this way, alternative operations are possible such as dress a cement plug, remove scale, underream, or mill short window sections.

The three knives are activated by the flow of drilling or workover fluid through a ball catcher. When an activation ball lands and the necessary pressure differential is established, the mandrel moves against the compression spring and contacts the three knife heels, moving the knives into the cutting position. The continued movement of the mandrel forces the knives to pivot around the knife pins. After a successful casing cut and the knives are fully extended, the mandrel strokes clear of the ball catcher. The fluid now flows more freely through this separation, reducing the pressure differential and signaling the operator the knives are fully extended.

Contact your BHGE representative today or visit [bhge.com](http://bhge.com) to find out how our Perseus pump through cutter can perform multiple applications in a single trip and save you time and well costs for well abandonment operations.

### Applications

- Deploys with other tools, enabling single-trip combinations and operations such as set bridge plugs, pump cement, dress cement, and cut casing
- Used as:
  - Underreamer
  - Descaler
  - Milling short windows

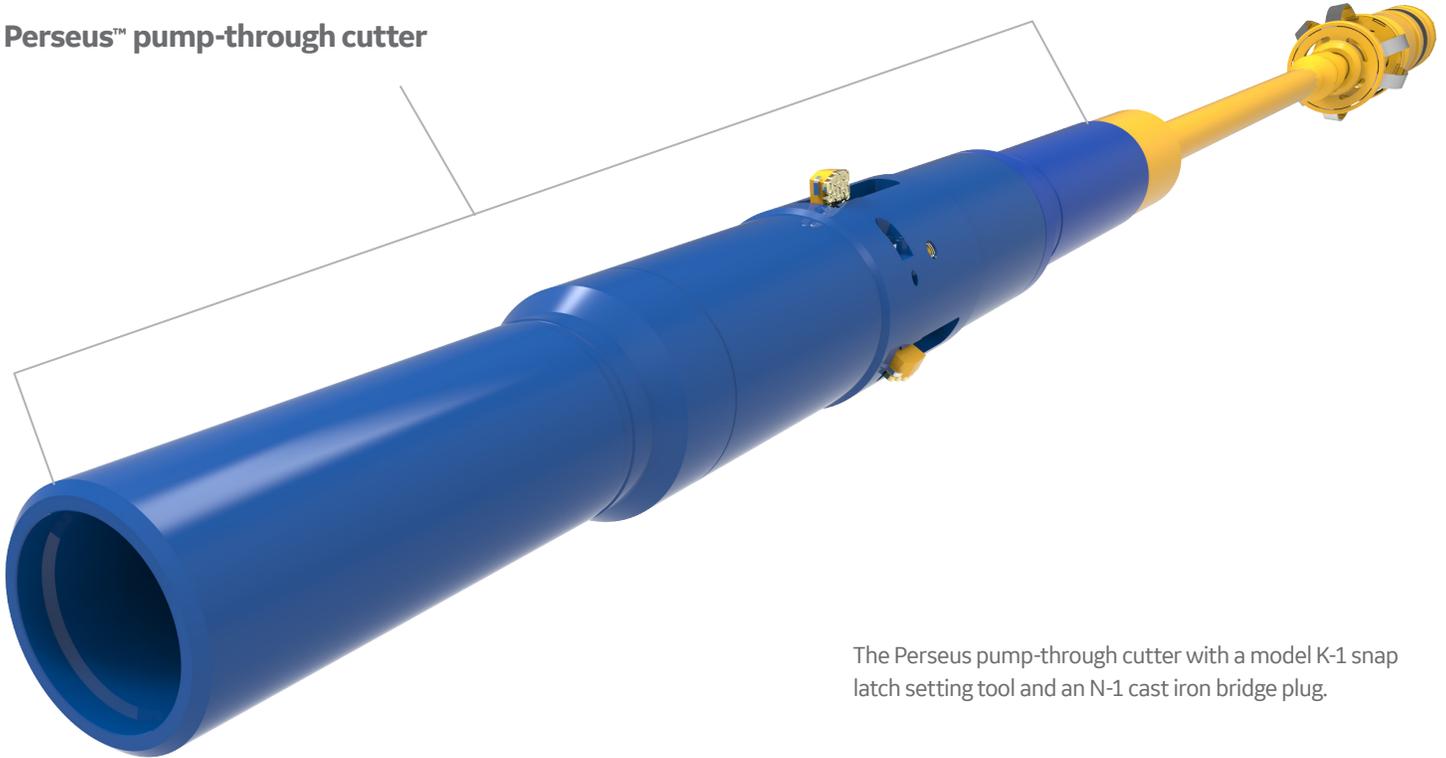
### Benefits

- Permits multiple operations in a single downhole trip via the pump-through capability and on demand knife activation
- Provides effective and reliable cutting and swarf control by dressing knives with METAL MUNCHER AMT carbide inserts
- Reduces turnaround time and health, safety, and environmental (HSE) exposure on the rig floor with interchangeable AMT knives

## Specifications

Material Number	Maximum Tool OD	Designed to Cut Casing Size
H170200003RT	5.5 in	7.0 in - 7 5/8 in
H170200004RT	8.25 in	9 5/8 in - 13.625 in

### Perseus™ pump-through cutter



The Perseus pump-through cutter with a model K-1 snap latch setting tool and an N-1 cast iron bridge plug.

[bhge.com](http://bhge.com)

Copyright 2018 Baker Hughes, a GE company, LLC ("BHGE"). All rights reserved.

The information contained in this document is company confidential and proprietary property of BHGE and its affiliates. It is to be used only for the benefit of BHGE and may not be distributed, transmitted, reproduced, altered, or used for any purpose without the express written consent of BHGE.

Baker Hughes reserves the right to make changes in specifications and features shown herein, or discontinue the product described at any time without notice or obligation. Contact your BHGE representative for the most current information. The Baker Hughes logo, Perseus, and METAL MUNCHER are trademarks of Baker Hughes, a GE company, LLC. GE and the GE Monogram are trademarks of the General Electric Company.

78780