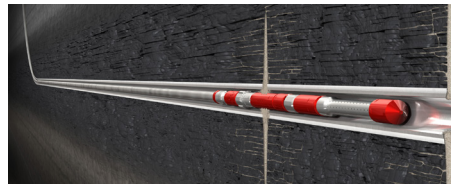


Hydra-Jet™ TS

CUSTOMIZABLE, HIGH-WEAR-LIFE ABRASIVE PERFORATING TOOL

OVERVIEW

The Halliburton Hydra-Jet™ TS (Trip Saver) tool is the latest generation of abrasive perforating tools that utilize jet orifices to focus a fluid slurry into a flow stream capable of cutting through metal, cement, and/or rock.



Hydra-Jet TS tools provide an option to abrasively perforate multiple stages in a well on a single run, and without the need for explosives, and enables additional services to be combined into the intervention, such as pre- and post-well cleanouts, acidizing, or other services, without the need for additional runs.

These tools offer customizable configuration of the jet number, orientation, and size to tailor the perforating plan as needed, or even the ability to cut slots. Penetration depth of the cuts may be controlled based on the cut time and material.

This new tool design has an average wear life up to 10 times greater than conventional abrasive perforating tools, providing greater service reliability, and redress has been simplified by allowing individual components to be replaced instead of the entire tool.

Abrasively cut perforations have no skin damage, unlike conventional perforations shot with explosive charges.

APPLICATIONS

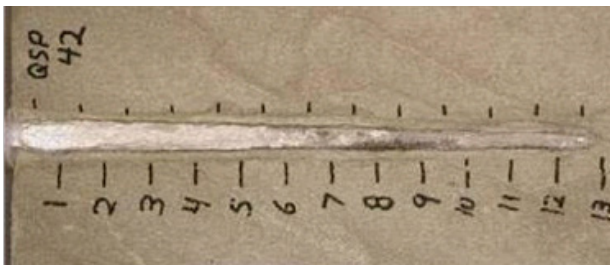
- » Abrasive perforation applications, such as toe prep, restoring access through failed sleeves, adding zones
- » Creating slots when large channels or flow paths are necessary
- » Cutting single or multiple strings of tubing

BENEFITS

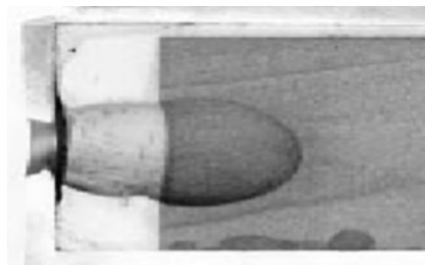
- » Single-trip, multistage perforations
- » Can be combined with additional intervention services in one run
- » Eliminates the need for explosives
- » Positive skin results in lower breakdown pressures and increased permeability

FEATURES

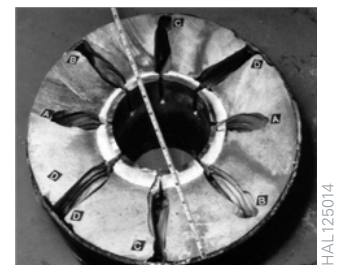
- » Customizable jet configurations
- » Wear life up to 10 times higher than conventional abrasive perforating tools
- » Modular design simplifies redress



Explosively Cut Perforation



Hydra-Jet™ Perforation



Hydra-Jet™ Slots

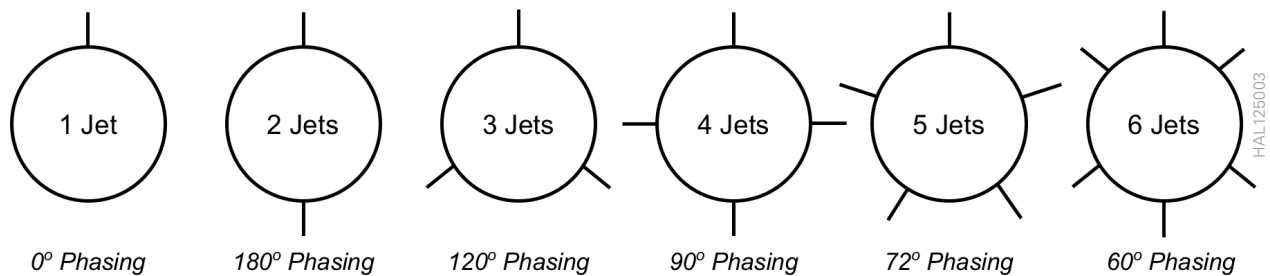
Hydra-Jet™ TS Specifications

Hydra-Jet TS tools are available in a range of tool diameters and jet phasing configurations. Tool housings are available in steel or in Incoloy for hydrogen sulfide (H₂S) service applications. Jet modules may be stacked to create custom configurations, available in the following sizes:

Available Jet Phasing Per Module

Jet Diameter	1 jet	2 jets	3 jets	4 jets	5 jets	6 jets	8 jets
2.50-Inch ODT S Tool							
0.11 in.	√	√	√	—	—	—	—
0.143 in.	—	√	√	—	—	—	—
3.06-Inch ODT S Tool							
0.11 in.	√	√	√	—	—	—	—
0.1875 in.	√	√	√	—	—	—	—
3.75-Inch ODT S Tool							
0.25 in.	—	√	—	√	—	—	—
4.50-Inch ODT S Tool							
0.25 in.	—	√	—	—	√	—	—
5.75-Inch ODT S Tool							
0.25 in.	√	√	—	—	—	—	—
7.00-Inch ODT S Tool							
0.25 in.	—	√	√	—	√	√	√

EXAMPLE OF HYDRA-JET™ PHASING CONFIGURATIONS



For more information, contact your local Halliburton representative or visit us on the web at www.halliburton.com

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