

CHIMERA Uni-Blade Scraper*

Wellbore clean-up scraper for all downhole conditions.

APPLICATIONS

- Pre-completion wellbore clean-up
- Workovers and sidetracking
- Abandonment
- Drilling/milling cement plugs

BENEFITS

- A properly executed wellbore clean-up mitigates risk during completion operations and the productivity of the well.
- Prevent debris related premature packer setting while RIH
- Assists in chemical cleans action
- Prepare casing wall to ensure packer element sets and mitigate premature elastomer failure

FEATURES

- Solid state scraper cage and centralizers, manufactured from a single billet without the need for springs, bolts or pads
- Non-rotating design with high performance alloy bronze bearings, compatible with high temperature and chemical applications
- Optional integral string mill with crushed carbide blades to remove cement
- Available with all API and premium drill pipe connections

Removes cement and debris from casing wall

CHIMERA Uni-Blade Scraper is a heavy duty wellbore clean-up scraper suitable for all downhole conditions and with robust, high performance features. Run separately or as part of a comprehensive wellbore clean-up, the CHIMERA Uni-Blade Scraper is designed to effectively remove cement and other debris from the casing wall, through reciprocation.

The scraper cage flexes like a spring, to conform to the casing internal surface, to mechanically remove hard debris from the casing. The alloy bronze bearings feature both axial and radial elements to allow extended rotation in harsh environments preventing tool and casing wear. The heavy duty version includes an integral string mill. The standard duty version comes with a plain external diameter.

Operational Capabilities

The CHIMERA Uni-Blade Scraper is typically the first tool run in a BHA ahead of a brush, magnet or filter tool as it is the most aggressive and most robust tool of this type. As the scraper cage enters the casing, the leading centralizer guides and centralizes the tool. The leading edge of the scraper cage blade compresses as it is squeezed into the casing, acting as a self-sprung solid state component.

While running in the hole, the self-cleaning teeth scrape the casing wall removing cement and other hard debris. Internal bearings ensure that the scraper cage is pulled into the well, rather than pushed, which prevents collapse of the scraper cage.

Once at the packer setting depth, the CHIMERA Uni-Blade Scraper is typically reciprocated three or more times across the critical depth while rotating and reciprocating the string. The bronze alloy bearings have both axial and radial elements to allow extended rotation of the string without damage or wear to the tool or the casing.

The optional integral string mill can be sized to casing drift and is particularly useful when used in a cement milling BHA, as the string mill will help to break up cement and remove any residual debris left by the mill.



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CHIMERA Uni-Blade Scraper Specifications

Dimensional Data

Nominal OD, in.	7.00	9.625
	23.0 – 29.0	53.5 – 64.9
Weight, ppf	32.0 – 38.0	47.0 – 53.5 36.0 – 43.5
Connection	NC 38	NC 50
	6.054	8.120
Centralizer OD, in.	5.790	8.374 8.594
	6.680	8.800
Scraper Cage OD, in.	6.415	9.000 9.250
ID, in.	1.500	2.500
Length, in.	101.4	103.8

Performance Data

Nominal OD, in.	7.00	9.625
Tensile Yield†, lbs	523,200	927,000
Torsional Yield†, ft.lbs	28,600	59,800
Max Slack-Off, lbs	10,000	20,000
Burst / Collapse, psi	>10,000	>10,000
Rotation Max, rpm	120	120

Specifications are for marketing purposes only and may be subject to change.

No warranties implied.

†Quoted value does not take external connections into consideration



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