

INTRODUCTION

CHIMERA Uni-Blade™ 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™ 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.

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

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

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APPLICATIONS

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

OPERATIONAL

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.

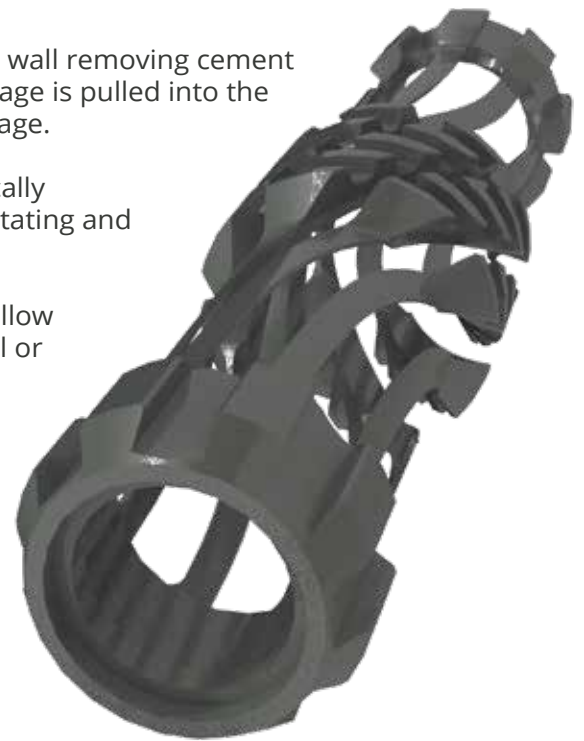
As the Scraper Cage enters the casing, the leading centralizer guides and centralizes the tool. The leading edge of the Scraper Cage blade compresses as it is squeezed into the casing, acting as a self-sprung solid state component.

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™ 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.



DIMENSIONAL DATA						
Nominal OD(in)	Weight (ppf)	Connection	Centralizer OD (in)	Scraper Cage OD (in)	ID (in)	Length (in)
7.000	23.0 – 29.0 32.0 – 38.0	NC 38	6.054 5.790	6.680 6.415	1.500	101.4
9.625	53.5 – 64.9 47.0 – 53.5 36.0 – 43.5	NC 50	8.129 8.374 8.594	8.800 9.000 9.250	2.500	103.8

PERFORMANCE DATA					
Nominal OD(in)	Tensile Yield† (lbs)	Torsional Yield† (ft.lbs)	Max Slack-Off (lbs)	Burst / Collapse (psi)	Rotation Max (rpm)
7.000	523,200	28,600	10,000	>10,000	120
9.625	927,000	59,800	20,000		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.*