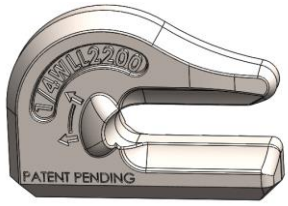
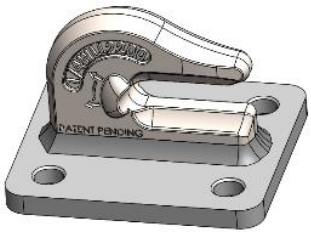
Forged Stainless Steel Surface Fixed Mount Grab & Slip Hooks

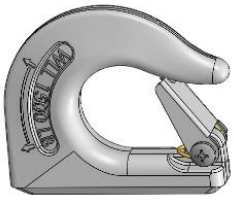
Industrial Strength Hook Series designed for Load Pulling Applications



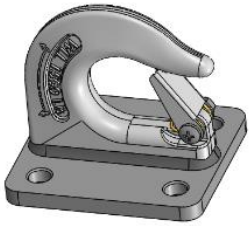
WELD-ON GRAB HOOK



BOLT-ON GRAB HOOK



WELD-ON SLIP HOOK



BOLT-ON SLIP HOOK

Hooks serve critical roles in various industries, facilitating the lifting and securing of loads. As industries evolve, the demand for hooks with advanced features intensifies.

They're designed to handle heavy loads reliably, ensuring workplace safety and operational efficiency. Durability is paramount, especially in harsh environments and applications. Modern hooks are built to withstand corrosive substances, extreme temperatures, and rugged conditions, ensuring uninterrupted performance in challenging settings. Ease of use is another key consideration. Innovative features like quick-release mechanisms streamline handling processes and enhancing productivity. In environments like chemical plants and construction sites, where conditions are harsh and demanding, durable and reliable hooks are indispensable.

Suncor's new line of surface mount hooks exemplifies the industry's commitment to innovation and excellence. Engineered with cutting-edge technology, these hooks set new standards for performance and safety across diverse industries.

What are Hooks and how are they used?

Hooks represent integral components within the industrial landscape, facilitating the secure lifting and manipulation of heavy loads across diverse sectors. From rigging operations in construction to material handling in manufacturing facilities, hooks serve as foundational tools enabling efficient workflow and operational productivity. Employed in conjunction with chains, ropes, or cables, they streamline material handling tasks in construction, manufacturing, marine, and logistics sectors, contributing to operational efficiency and safety.

Grab and slip hooks constitute two primary variants tailored to specific load anchoring requirements. Grab hooks feature a prominent groove slot for chain grip, while slip hooks offer rapid attachment and release functionality, particularly advantageous in projects like webbing with an eye.

Suncor’s surface mount Grab & Slip Hooks work with the load restraints and rigging assemblies to hold and pull loads. With a full range of hook types, mounting options, and working load limits, Suncor offers a versatile line of hooks that will meet the requirements of many applications.

Features and Benefits

316 Stainless Steel Material

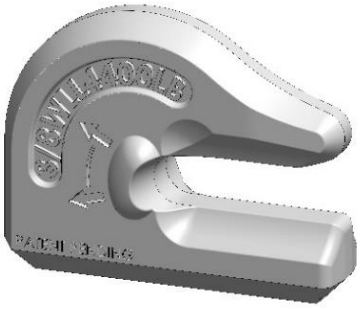
In the development of our new range of grab and slip hooks, we prioritize the use of premium materials to ensure superior performance and longevity. The grab and slip hook assemblies are meticulously crafted from marine-grade 316 stainless steel, renowned for its exceptional durability and corrosion resistance properties. Particularly suited for marine environments, the 316 stainless steel guarantees optimal performance and longevity. Furthermore, our hooks alleviate concerns regarding Proposition 65 (Prop-65) labeling requirements, emphasizing our commitment to safety and environmental responsibility in our product offerings.

Versatility of the Hook types

Suncor's Grab & Slip Hooks offer two distinct variants - grab hooks and slip hooks. Each variant is meticulously engineered to address specific application requirements, and ease of use.

Grab Hooks

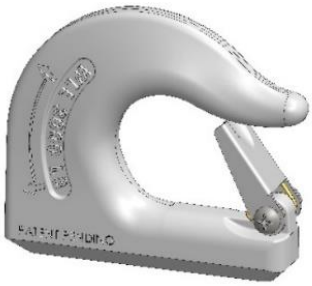
The origins of the grab hooks can be traced back to coincide with the rise of industrialization from the earlier centuries wherein efficient load handling mechanisms were on the rise. Typically, grab hooks are used for lifting or in a situation where it is attached to a surface to perform heavy pulls. Examples include lifting heavy materials in the construction industry. The versatile usability of the grab hooks is associated with the design aspect that allows a wide throat & a shoulder groove, alongside a secure mechanism that allows reliable pulling and lifting under heavy load. Chains are passed through the throat of the hook before securing firmly with shackles/links. These are also a common sight in agricultural settings wherein chains are attached to plows. Grab hooks may also be used to lift pumps, aerators, and other equipment in wastewater treatment plants as they provide a secure attachment point for chains or slings, allowing workers to handle equipment safely and efficiently.



Grab Hook

Slip Hooks

The design aspect of the slip hooks includes a spring-loaded latch which prevents accidental detachment of the attached rope or cable. This feature is crucial in situations like towing where safety is paramount. Eye ends of the cables or ropes are attached to slip hooks by passing them through the hooks' throat and securing them with appropriate links. Slip hooks are commonly used in situations wherein towing, rigging, or material handling is required. Slip hooks are valuable in the wastewater management industry for tasks such as lifting and lowering pumps and other equipment into treatment tanks, connecting hoses and cables for pumping operations. Some of the common reasons on why one would choose cable, rope, or slings over chain is because this allows us to work on situations where increased flexibility can be leveraged.



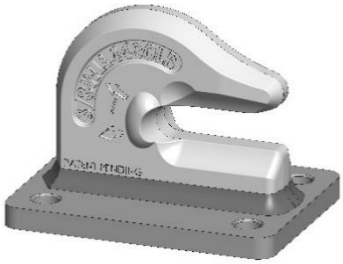
Slip Hook

Mounting Options

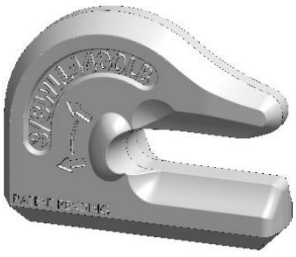
With the flexibility of bolt-on and weld-on configurations, users have the freedom to choose the most suitable installation method based on their unique operational needs. This versatility underscores Suncor's commitment to delivering tailored solutions that optimize workflow and operational efficiency. On that front, the grab hooks allow us to accommodate a chain size range of ¼''-1/2''.

NOTE: The "bolt-on" base option is not supplied with fasteners. Users must source their own mounting hardware. ASTM F593 bolts or equivalent are recommended. The dimensions of the mounting structure must be considered when determining the precise length of the bolts needed.

USE LOCK NUTS TO PREVENT LOOSENING FROM VIBRATION.



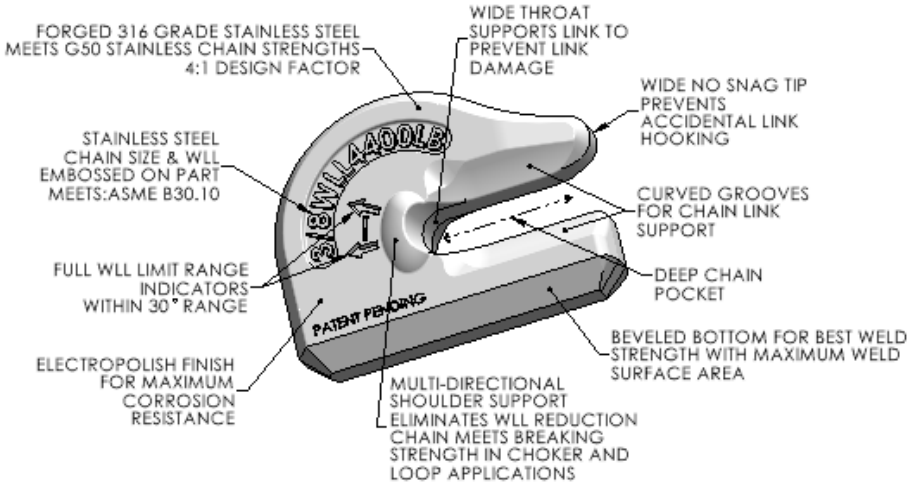
Bolt-On Hook



Weld-On Hook

Grab Hook Design & Function Features

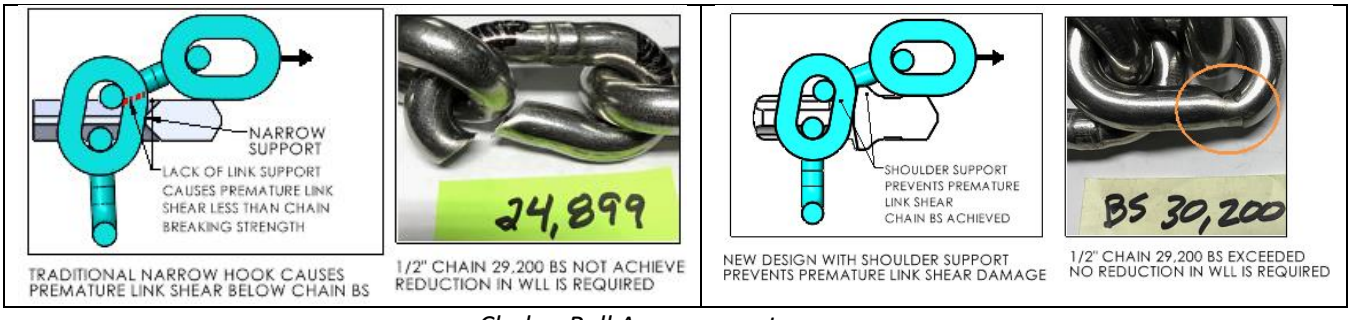
Suncor's new patent pending grab hook has multiple features for improved performance illustrated below. The hook is forged 316 stainless steel for optimum strength with an electropolish finish for best corrosion resistance ensuring durable service for harsh conditions.



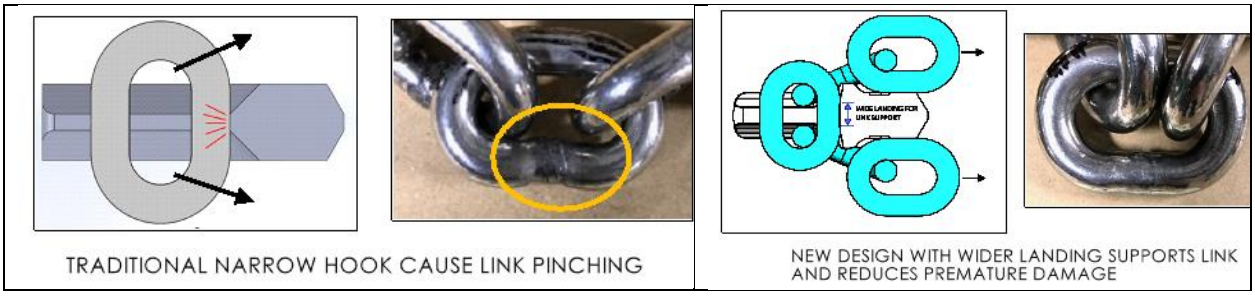
Grab Hook Design & Function Features

Saddle Support for Loaded Chain Link

The saddle support provides extra seating for the loaded chain link preventing premature damage compared to traditional type hook with point load condition. This permits full working load limit and breaking strength without any reduction in the 30˚ load range for both chocker and loop usage applications.

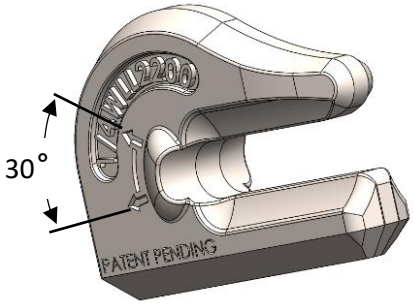


Choker Pull Arrangement



Loop Pull Arrangement

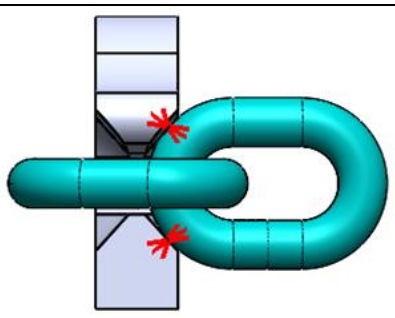
Furthermore, the shoulder forms a wide saddle to provide a 30˚ range at full working load limit. The range is indicated on the hook with arrows. Load angles should be maintained within this angle for proper safety.



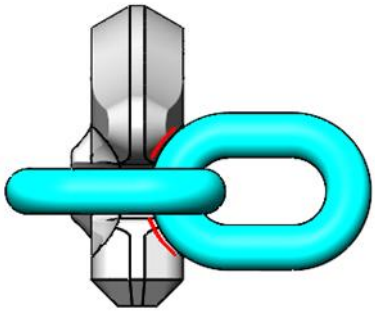
Load Angle Range

Curved Groove Support

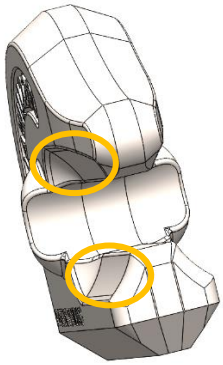
Hook groove design affects chain load support. Traditional grab hooks with flat sides create point load on chain link in contact with hook causing premature hook wear and possible link damage. Suncor's new grab hook has curved grooves matching chain link contour evenly distributing the load over greater surface area providing less wear and greater durability.



Traditional flat side point contact



Suncor curved matching groove



No Snag Safety Tip

Suncor's wide tip prevents accidental engagement of the chain to avoid improper loading that can damage the hook, cause personal injury, and require replacement if deformed.



Narrow tip permits chain to accidentally engage



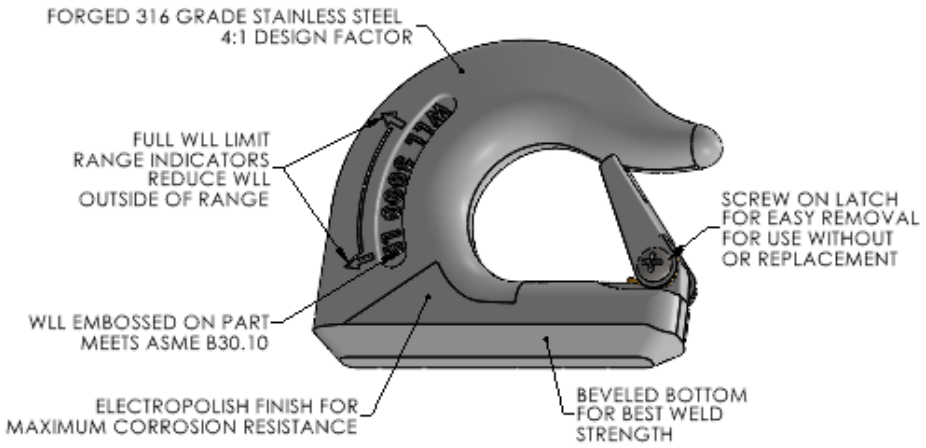
Wide no-snag tip prevents chain from hooking on tip

Slip Hook Design & Function Features

Suncor's new slip grab hook has multiple features for improved performance illustrated below. The hook is forged 316 stainless steel for optimum strength with an electropolish finish for best corrosion resistance ensuring durable service for harsh conditions.

The spring-loaded latch captivates the loop end of the load carrying tether to prevent accidental disengagement during towing maneuvers. The latch is attached with a screw and locknut for easy replacement and removal if desired for any application.

Load arrows showing 50˚ range provide visual check to assure pull force is within full working load range. Pull loads outside of this range should be avoided.



Slip Hook Design & Function Features

COMPANY CONFIDENTIAL
Corporate Headquarters: 70 Armstrong Road, Plymouth, MA 02360 www.suncorstainless.com

Working Load Limits: Prioritizing Safety and Reliability

Suncor Stainless prioritizes safety above all else, ensuring that each variant of the Grab & Slip Hooks adheres rigorously to established working load limits. These limits are meticulously calculated to accommodate a wide spectrum of lifting tasks, providing operators with the assurance of uncompromising safety and performance integrity in every operation. The grab hooks support a Working Load Limit range of 2200-7300lb., and the slip hooks support a Working Load Limit range of 1500-4000lb. Note: For weld-on options, the working load limit depends on the quality of the weld attaching the base.

Suncor's engineers and quality control teams work together performing pull tests to verify product working load, proof load and breaking strengths.

The working load limits (WLL) for Suncor's Grab & Slip Hooks were certified through extensive in-house laboratory testing. The WLL represents a 4:1 design factor (DF). Proof loads are twice the WLL. All loads are based on a gradual pull. This testing validates the load ratings for reliable products for the demanding applications.



WARNING: Never exceed the specified working load limit (WLL). The WLL for "Weld-On" Grab & Slip Hooks depend on the quality of the weld attaching the hook to the mounting surface. Not for lifting humans. Not for overhead lifting.

Conclusion: Elevating Operational Excellence

In conclusion, our range of grab and slip hooks embodies the core principles of usability, strength, and quality. Crafted from the finest raw materials, including marine-grade 316 stainless steel, they stand as proven benchmarks of durability and reliability in lifting and rigging applications. Whether opting for the weld-on or bolt-on configuration, our hooks offer unmatched versatility and adaptability to suit diverse operational needs, ensuring a secure and stable attachment in any setting. Moreover, their design facilitates a free range of motion, enhancing operational flexibility and efficiency. With a steadfast commitment to excellence, our hooks empower industries to navigate complex lifting challenges with confidence, setting new benchmarks for safety and performance in material handling operations.

For comprehensive information and expert guidance on leveraging the full potential of Suncor's Grab & Slip Hooks, we invite you to engage with our dedicated team of professionals.

	316 SS	CHAIN SIZES	1/4''	5/16''	3/8''	1/2''
	**GRAB HOOK WELD-ON	PART #	S0459-G007	S0459-G008	S0459-G010	S0459-G013
		*WLL (LBS)	2,200	2,700	4,400	7,300
	316 SS	CHAIN SIZES	1/4''	5/16''	3/8''	1/2''
	**GRAB HOOK BOLT-ON	PART #	S0459-GB07	S0459-GB08	S0459-GB10	S0459-GB13
		WLL (LBS)	2,200	2,700	4,400	7,300
		FASTENER REQ.	5/16"	3/8"	3/8"	1/2"
	316 SS	PART #	S0459-S007	S0459-S008	S0459-S010	S0459-S013
	SLIP HOOK WELD-ON	*WLL (LBS)	1,500	2,000	3,000	4,000
	316 SS	PART #	S0459-SB07	S0459-SB08	S0459-SB10	S0459-SB13
	SLIP HOOK BOLT-ON	WLL (LBS)	1,500	2,000	3,000	4,000
		FASTENER REQ.	5/16"	3/8"	3/8"	1/2"
	304 SS	PART #	S0459-UB07	S0459-UB08	S0459-UB10	S0459-UB13
	UNIVERSAL BACKING PLATE	FASTENER REQ.	5/16"	3/8"	3/8"	1/2"

* WORKING LOAD LIMIT DEPENDS ON THE QUALITY OF THE WELD ATTACHING THE BASE.
** FOR USE WITH GRADE 50 STAINLESS STEEL CHAIN

Suncor's complete line Grab & Slip Hooks (Weld-On and Bolt-On). The following is specified within the table: Hook type, mounting style, material grade, chain size (for Grab Hooks), part #, working load limits (WLL) and required fastener size (for "Bolt-On" versions).