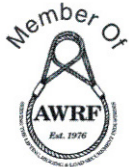


*Another*

New Product



*Crosby® S-319SWG  
Swage Hook*



[www.thecrosbygroup.com](http://www.thecrosbygroup.com)

*From:*

**the Crosby<sup>®</sup> group, inc.**

# Crosby® S-319SWG Swage Hook

## *Background*

- ☑ Over the years, Crosby® has not allowed the 319 shank hooks to be used in swaging applications.



## ☑ Why?

- Standard Heat Treat Process not conducive to proper swaging.
- Inability for Crosby® to control machining tolerances when performed outside Crosby® facilities.

# Crosby® S-319SWG Swage Hook

## *Today*

- ☑ Due to recent market demand, we have designed a line of shank hooks exclusively for swaging.

- ☑ **How?**

- By providing a heat treated hook more conducive to proper swaging.
- By machining the hooks to controlled tolerances (Crosby® provides expertise).
- By establishing load ratings, verified thru internal performance testing.



# Crosby® S-319SWG Swage Hook

## *Design Information*

- Designed for use with 6 x 19 or 6 x 37, IPS or XIP (EIP), XXIP (EEIP), RRL, FC, or IWRC wire rope.



### **Important**

Before using any Crosby® fitting with any other type lay, construction or grade of wire rope, it is recommended that the termination be destructive tested and documented to prove the adequacy of the assembly to be manufactured.

# Crosby® S-319SWG Swage Hook

## *Product Information*

- Hooks are:
  - Forged from carbon steel.
  - Modified Quenched and Tempered heat treat process allows ease of swaging.
- Black Oxide finish on body (shank is uncoated).



# Crosby® S-319SWG Swage Hook

## *Product Information*

- ☑ **Wide range of sizes available.**
  - **Wire rope sizes: 3/16" thru 1-1/8"**
- ☑ **Termination efficiency of 95% based on minimum breaking load of the wire rope.**
- ☑ **Maximum Proof Test is 50% of minimum breaking load of the wire rope.**



# Crosby® S-319SWG Swage Hook

## *Product Information*

- ☑ All hooks incorporate Crosby's patented **QUIC-CHECK®** markings.



Hoist hooks incorporate markings forged into the product which address two (2) **QUIC-CHECK®** features.

- **Angle Indicators**
- **Throat Deformation Indicators.**

QUIC-CHECK™



7

the **Crosby** group,  
INC.

# Crosby® S-319SWG Swage Hook

## *Product Information*

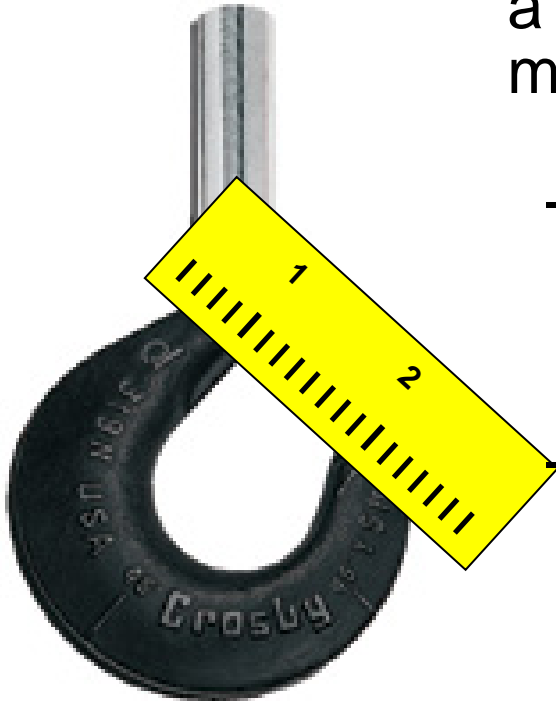


**Deformation Indicators** -- Two strategically placed marks, one just below the shank or eye and the other on the hook up, which allows for a **QUIC-CHECK®** measurement to determine if the throat opening has changed, thus indicating abuse or overload.



# Crosby® S-319SWG Swage Hook

## *Product Information*



**Deformation Indicators** -- To check, use a measuring device (i.e. tape measure) to measure the distance between the marks.

- The marks should align to either an inch or half-inch increment on the measuring device.

If the measurement does not meet this criteria, the hook should be inspected further for possible damage.

# Crosby® S-319SWG Swage Hook

## *Product Information*

**Angle Indicators** -- Indicates the maximum included angle 90 degrees, which is allow between two (2) sling legs in the hook. These indicators also provide the opportunity to approximate other included angles between two sling legs.



QUIC-CHECK™



# Crosby® S-319SWG Swage Hook

## *Product Information*



- Utilizes standard Crosby® 319N shank hooks with interlocking hook tip. Each hook has a pre-drilled cam which can be equipped with a latch.



# Crosby® S-319SWG Swage Hook

## *Product Information*



- ☑ Each Crosby® hook contains a “**forged in**” Frame code, just below the shank.

- The code is used for easy reference to determine the hook’s rated Working Load Limit, and to aid in the selection of the hook’s proper latch size.

# Crosby® S-319SWG Swage Hook

## *Product Information*



- Can be fitted with standard Crosby S-4320 heavy duty stamped latches with high cycle, long life spring.
- Larger two sizes utilizes either the SS-4055 or PL style latches.

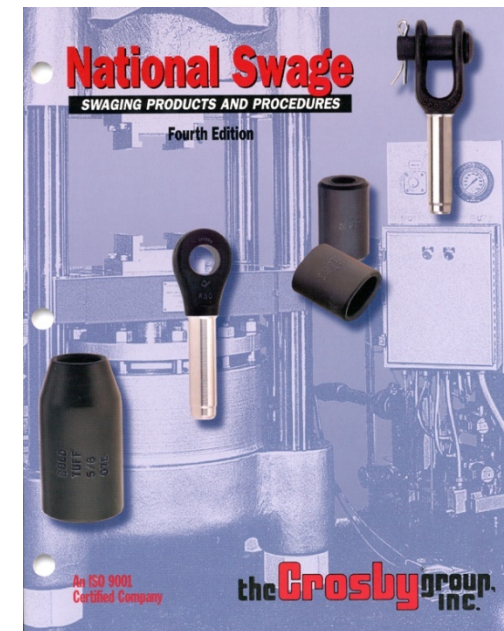


# Crosby® S-319SWG Swage Hook

## *Product Information*

- ☑ Utilizes standard National Swage swaging dies.

Refer to swage socket or swage button instructions in the **National Swage Swaging Products and Procedures Brochure** for proper swaging techniques.



# *Crosby® S-319SWG Swage Hook*

## *Industry Information*

- Fabricator of swage hook termination should properly identify working load limits (WLL) of system.
- In accordance with ANSI B30.9, all slings terminated by swaging shall be proof tested.