

# CROSBY 320N HOIST HOOKS

Load Rated Fatigue Rated



## S-320 & S-320N EYE HOOKS



All Crosby 320 Eye Hoist Hooks incorporate the following features:

- The most complete line of Eye hoist hooks.
- Available in carbon steel and alloy steel.
- Designed with a 5:1 Design Factor.
- Eye hooks are load rated.
- Proper design, careful forging and precision controlled quenched and tempering give maximum strength without excessive weight and bulk.
- Every Crosby Eye Hook has a pre-drilled cam which can be equipped with a latch. Even years after purchase of the original hook, latch assemblies can be added (See pages 97-99).
- Chemical analysis and tensile tests performed on each PIC to verify chemistry and mechanical properties.
- Hoist hooks incorporate two types of strategically placed markings forged into the product which address two (2) QUIC-CHECK® features:
  - Deformation Indicators and Angle Indicators (see following page for detailed definition).

The following additional features have been incorporated in the new Crosby S-320N Eye Hoist Hooks. (Sizes 3/4 ton Carbon through 22 ton Alloy.)

- Can be Metric Rated at 5:1 Design Factor.
- Can be proof tested to 2-1/2 times the working Load Limit.
- Low profile hook tip.
- New integrated latch (S-4320) meets the World class standard for lifting.
  - Heavy duty stamped latch interlocks with the hook tip.
  - High cycle, long life spring.
  - When secured with proper cotter pin through the hole in the tip of hook, meets the intent of OSHA Rule 1926.550(g) for personnel hoisting.
- Fatigue rated at 1-1/2 times the Working Load Limit at 20,000 cycles.

Working Load Limit (t)*		Hook ID Code	Eye Hook Stock No.			Weight Each (lbs.)	Replacement Latch Kits		
Carbon	Alloy		Carbon S-320C S.C.	Carbon G-320C Galv.	Alloy S-320A S.C.		S-4320 Stock No.	PL Stock No.	SS-4055 Stock No.
3/4†	1 †	D	1022200	1022208	1022375	.61	1096325	-	-
1†	1-1/2 †	F	1022211	1022219	1022386	.89	1096374	-	-
1-1/2†	2 †	G	1022222	1022230	1022397	1.44	1096421	-	-
2†	3 †	H	1022233	1022241	1022406	2.07	1096468	-	-
3†	5 †	I	1022244	1022249	1022419	4.30	1096515	1092000	-
5†	7 †	J	1022255	1022262	1022430	8.30	1096562	1092001	-
7-1/2†	11 †	K	1022264	1022274	1022441	15.00	1096609	1092002	-
10†	15 †	L	1022277	1022285	1022452	20.77	1096657	1092003	-
15†	22 †	N	1022288	1022296	1022465	39.50	1096704	1092004	-
20	30	O	1023289	-	1023546	60.00	-	1093716	1090161
25	37	P	1023305	-	1023564	105.00	-	1093717	1090189
30	45	S	1023323	-	1023582	148.00	-	1093718	1090189
40	60	T	1023341	-	1023608	228.00	-	1093719	1090205

\* Eye Hooks (3/4 TC - 22TA), Proof load is 2.5 times Working Load Limit. Eye Hooks (20 TC - 60TA), Proof Load is 2 times Working Load Limit. All carbon hooks-average straightening loads (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 1 ton through 22 ton-average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 30 tons through 60 tons-average straightening load (ultimate load) is 4.5 times Working Load Limit.  
 † New 320N style hook.

SEE APPLICATION AND WARNING INFORMATION ON PAGE 84.



**Load Rated** **Fatigue Rated** **"QT"**  
QUENCHED & TEMPERED

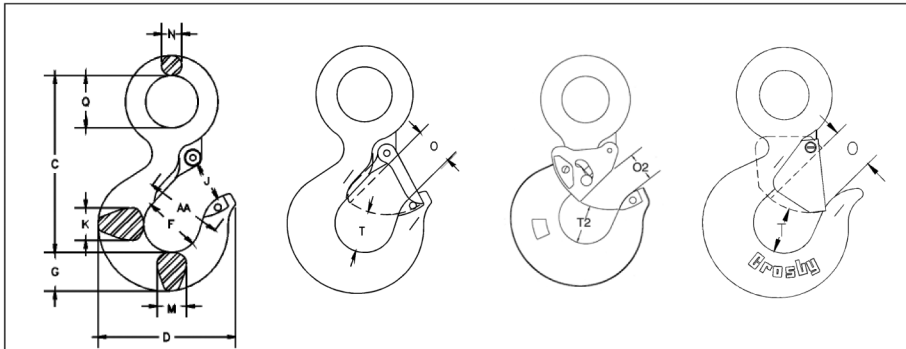


## S-320 & S-320N EYE HOOKS



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

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



Hook ID*	Dimensions (in.)													
	C	D	F	G	J	K	M	N	O †	O2 ††	Q	T †	T2 ††	AA
D	3.34	2.83	1.25	.73	.90	.63	.63	.36	.89	-	.75	.87	-	1.50
F	3.81	3.11	1.38	.84	.93	.71	.71	.42	.91	-	.91	.98	-	2.00
G	4.14	3.53	1.50	1.00	1.00	.88	.88	.55	1.00	-	1.13	1.03	-	2.00
H	4.69	3.97	1.63	1.13	1.13	.94	.94	.58	1.09	-	1.25	1.16	-	2.00
I	5.77	4.81	2.00	1.44	1.47	1.31	1.31	.72	1.36	1.00	1.56	1.53	1.50	2.50
J	7.37	6.27	2.50	1.81	1.75	1.66	1.66	.90	1.61	1.31	2.00	1.96	1.88	3.00
K	9.07	7.45	3.00	2.25	2.29	1.88	1.63	1.11	2.08	1.81	2.44	2.47	2.25	4.00
L	10.08	8.30	3.25	2.59	2.50	2.19	1.94	1.27	2.27	2.00	2.84	2.62	2.31	4.00
N	12.53	10.30	4.25	3.00	3.30	2.69	2.38	1.56	3.02	2.75	3.50	2.83	2.56	5.00
O	14.06	13.62	5.00	3.62	4.00	3.00	3.00	1.75	3.25	-	3.50	3.44	-	6.50
P	18.19	14.06	5.38	4.56	4.25	4.00	3.19	2.00	3.00	-	4.50	3.88	-	7.00
S	20.12	15.44	6.00	5.06	4.75	4.50	3.25	2.18	3.38	-	4.94	4.75	-	8.00
T	23.72	18.50	7.00	6.00	5.75	5.50	3.91	2.53	4.12	-	5.69	5.69	-	10.00

\* Eye Hooks (3/4 TC - 22TA), Proof load is 2.5 times Working Load Limit. Eye Hooks (20 TC - 60TA), Proof Load is 2 times Working Load Limit. All carbon hooks-average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 1 ton through 22 ton-average straightening load (ultimate load) is 5 times Working Load Limit. Alloy eye hooks 30 tons through 60 tons-average straightening load (ultimate load) is 4.5 times Working Load Limit.

† 3/4tC - 22tA dimensions shown are for S-4320 Latch Kits. Dimensions for sizes 20 ton carbon and larger are for PL Latch Kits.

†† Dimensions are for PL-N latch kits.

SEE APPLICATION AND WARNING INFORMATION ON PAGE 84.

