

# CARRIAGE AND PLOW BOLTS



## **FEATURES:**

- **Standard Carriage Bolts**
- **Flat Head Elevator Bolts**
- **High Strength Fully Threaded Grade 5 Shaker Screen Bolts**
- **Ultimate High Strength 150,000 PSI #3 Dome Head Plow Bolts**
- **Full Diameter Shanks**
- **Fully Formed Heads**
- **Sharp Accurate Threads**
- **Special Chromate Plating**

**CHROMATE SPECIAL FASTENERS – THE SOLUTION FOR ALL YOUR SPECIAL APPLICATIONS.** All Chromate carriage, elevator, shaker screen and plow bolts are manufactured to exacting specifications. They feature a unique square neck with sharp edges that prevents the bolt from turning when the nut is tightened. Special chromate plating provides corrosion resistance and durability. Use Chromate Special Fastening Systems when the *proper* fastener is the only acceptable solution.



**CHROMATE INDUSTRIAL CORP.**

*EXCEPTIONAL PRODUCTS, SERVICE AND INNOVATIVE SOLUTIONS*

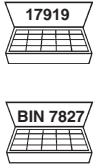
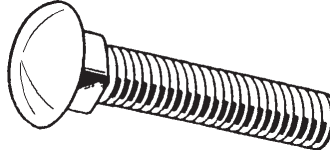
*FOR MORE INFORMATION ON OUR PRODUCTS OR SYSTEMS, CALL 1-800-BUY-BOLT*

# CARRIAGE AND ELEVATOR BOLTS

## ROUND HEAD CARRIAGE BOLTS

### CARRIAGE BOLTS

- SQUARE NECK AND CLEAN, SHARP USS THREADS
- DURABLE CHROMATE PLATING
- NUTS NOT INCLUDED

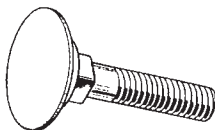


LENGTH	3/16 DIA.	1/4 DIA.	5/16 DIA.	3/8 DIA.	7/16 DIA.	1/2 DIA.	5/8 DIA.	3/4 DIA.
<b>3/4</b>	T 22811	T 22825	T 22822	-	-	-	-	-
<b>1</b>	T 22815	T 22826	T 22840	T 22855	-	-	-	-
<b>1-1/4</b>	T 22816	T 22827	T 22841	T 22856	R 22870	-	-	-
<b>1-1/2</b>	-	T 22828	T 22842	T 22857	-	N 22878	N 22892	-
<b>1-3/4</b>	T 22813	T 22823	T 22854	T 22869	-	-	-	-
<b>2</b>	T 22818	T 22829	T 22843	T 22858	N 22871	N 22879	N 22893	-
<b>2-1/4</b>	-	T 22824	R 22819	-	-	-	-	-
<b>2-1/2</b>	-	T 22830	T 22844	R 22859	N 22872	N 22880	-	-
<b>3</b>	-	T 22831	T 22845	R 22860	N 22873	N 22881	I 22895	-
<b>3-1/2</b>	-	T 22832	R 22846	R 22861	I 22874	N 22882	I 22896	-
<b>4</b>	-	R 22833	R 22847	R 22862	I 22875	L 22883	-	-
<b>4-1/2</b>	-	N 22834	N 22848	N 22863	-	I 22884	-	E 22820
<b>5</b>	-	N 22835	N 22849	N 22864	-	I 22885	-	-
<b>5-1/2</b>	-	N 22836	N 22850	N 22865	-	I 22886	-	-
<b>6</b>	-	N 22837	N 22851	I 22866	-	I 22887	-	-
<b>6-1/2</b>	-	-	-	I 22812	-	-	-	-
<b>7</b>	-	I 22838	I 22852	I 22867	-	E 22888	-	-
<b>7-1/2</b>	-	-	-	I 22814	-	-	-	-
<b>8</b>	-	I 22839	I 22853	I 22868	-	E 22889	-	-
<b>9</b>	-	-	-	I 22817	-	-	-	-
<b>10</b>	-	-	-	-	-	E 22890	-	-
<b>11</b>	-	-	-	-	-	E 22891	-	-

## FLAT HEAD ELEVATOR BOLTS AND FINISHED HEX NUTS

Flat head elevator bolts with square neck and clean, sharp USS threads. Durable Chromate plating.

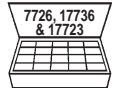
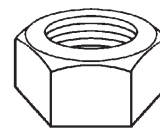
### ELEVATOR BOLTS



NUTS NOT INCLUDED

LENGTH	1/4 DIA.	5/16 DIA.	3/8-16
<b>1</b>	T 22950	-	-
<b>1-1/4</b>	-	R 22956	-
<b>1-1/2</b>	T 22951	R 22953	L 22961
<b>2</b>	R 22952	R 22954	L 22962
<b>2-1/2</b>	-	R 22955	-
<b>3</b>	T 22949	-	-

### FINISHED HEX NUTS



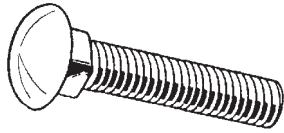
HEX NUT SIZE	PART
3/16 (10-24)	T 5210
1/4-20	T 52300
5/16-18	T 52302
3/8-16	T 52304
7/16-14	R 52306
1/2-13	R 52308

# SHAKER SCREEN AND PLOW BOLTS

## HEAT-TREATED GRADE 5 BOLTS FOR HIGH STRENGTH

High carbon content, 120,000 PSI bolts with U.S.S. threads and square neck. Nuts not included.

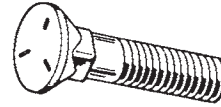
### FULLY THREADED SHAKER SCREEN BOLTS



- DURABLE CHROMATE PLATING
- GRADE 5 CARRIAGE BOLT

LENGTH	1/2 DIA.	5/8 DIA.	3/4 DIA.
<b>1-1/2</b>	L 22899	-	-
<b>2</b>	L 22900	I 22911	-
<b>2-1/2</b>	L 22901	I 22912	-
<b>3</b>	L 22902	I 22913	-
<b>3-1/2</b>	L 22903	I 22914	E 22918
<b>4</b>	L 22904	I 22915	E 22920
<b>4-1/2</b>	L 22905	I 22916	E 22921
<b>5</b>	I 22906	E 22917	E 22922
<b>5-1/2</b>	I 22907	-	E 22923
<b>6</b>	I 22908	E 22919	E 22924
<b>8</b>	E 22910	-	-

### #3 HEAD PLOW BOLTS



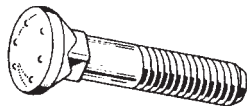
LENGTH	7/16 DIA.	1/2 DIA.
<b>1</b>	O 99412	O 99421
<b>1-1/4</b>	O 99413	O 99422
<b>1-1/2</b>	O 99414	O 99423
<b>1-3/4</b>	O 99415	L 99424
<b>2</b>	O 99416	L 99425
<b>2-1/2</b>	O 99418	L 99427
<b>2-3/4</b>	-	L 99428
<b>3</b>	L 99420	L 99429
<b>3-1/2</b>	-	L 99430
<b>4</b>	-	L 99431
	-	-

# #3 DOME HEAD PLOW BOLTS & FINISHED HEX NUTS

## HEAT-TREATED GRADE 8 BOLTS FOR ULTIMATE HIGH STRENGTH

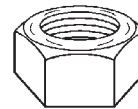
High carbon content, 150,000 PSI bolts with U.S.S. threads and square neck. Nuts not included.

### #3 DOME HEAD PLOW BOLTS



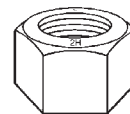
LENGTH	5/8 DIA.	3/4 DIA.	7/8 DIA.	1 DIA.	1-1/4 DIA.
<b>1-1/2</b>	L 99432	-	-	-	-
<b>1-3/4</b>	L 99433	I 99443	-	-	-
<b>2</b>	L 99434	I 99444	E 99453	-	-
<b>2-1/4</b>	L 99407	I 99411	-	-	-
<b>2-1/2</b>	L 99435	I 99445	E 99454	E 99464	-
<b>3</b>	I 99436	I 99446	E 99455	E 99465	-
<b>3-1/4</b>	-	-	-	99410	-
<b>3-1/2</b>	I 99437	I 99447	E 99456	E 99466	-
<b>4</b>	I 99438	E 99448	E 99457	E 99467	-
<b>4-1/2</b>	I 99439	E 99449	E 99458	E 99468	A 99408
<b>5</b>	I 99440	E 99450	E 99459	E 99469	A 99409
<b>5-1/2</b>	-	E 99451	E 99460	E 99470	-
<b>6</b>	E 99442	E 99452	E 99461	E 99471	-
<b>6-1/2</b>	-	-	-	E 99472	-
<b>7</b>	-	-	E 99463	A 99473	-

### GRADE 8 HEX NUTS



SIZE	PART	SIZE	PART
7/16-14	R 8929	3/4-10	N 8933
1/2-13	R 8930	7/8-9	I 8934
5/8-11	R 8932	1-8	I 8935

### 2H HEX NUTS



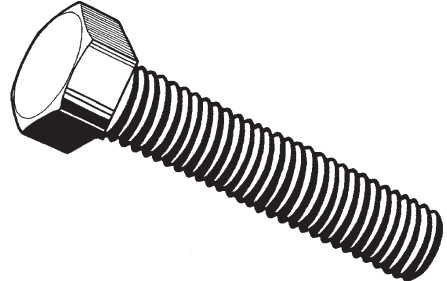
SIZE	PART	SIZE	PART
1/2-13	R 4850	7/8-9	I 4865
5/8-11	N 4855	1-8	I 4870
3/4-10	L 4860		

# GRADE 2 HEX TAP BOLTS

## THE PREVENTIVE MAINTENANCE HEX TAP BOLT

A low carbon, hex head bolt with a machined point which is threaded to the head.

- USE IN DRILLED AND TAPPED HOLES THREADED FULL LENGTH
- USE INSTEAD OF A STUD AND A NUT
- MEETS AISI 1006 - 1025 OR EQUIVALENT STEEL
- ROCKWELL B80 - B100
- 55,000 PSI PROOF LOAD
- 57,000 PSI MINIMUM YIELD STRENGTH
- 74,000 PSI MINIMUM TENSILE STRENGTH
- 18% MINIMUM ELONGATION



LENGTH	1/4 DIA.		5/16 DIA.		3/8 DIA.		7/16 DIA.		1/2 DIA.		5/8 DIA.		3/4 DIA.	
		USS 20		USS 18		USS 16		USS 14		USS 13		USS 11		USS 10
<b>1/2</b>	T	23000	T	23019	T	23038		—		—		—		—
<b>5/8</b>	T	23001	T	23020	T	23039		—		—		—		—
<b>3/4</b>	T	23002	T	23021	T	23040		—	R	23068		—		—
<b>1</b>	T	23003	T	23022	T	23041	R	23057	R	23069	N	23084		—
<b>1-1/4</b>	T	23004	T	23023	T	23042	R	23058	R	23070	N	23085	I	23101
<b>1-1/2</b>	T	23005	T	23024	T	23043	R	23059	R	23071	N	23086	I	23102
<b>1-3/4</b>	T	23006	T	23025	R	23044	R	23060	N	23072	N	23087	I	23103
<b>2</b>	T	23007	T	23026	R	23045	R	23061	N	23073	I	23088	I	23104
<b>2-1/4</b>	T	23008	T	23027	R	23046	R	23062	N	23074	I	23089	I	23105
<b>2-1/2</b>	T	23009	R	23028	R	23047	N	23063	N	23075	I	23090	I	23106
<b>2-3/4</b>	T	23010	R	23029	R	23048	N	23064	N	23076	I	23091	I	23107
<b>3</b>	T	23011	R	23030	R	23049		—	N	23077	I	23092	I	23108
<b>3-1/4</b>	T	23012		—	N	23050		—		—	I	23093	I	23109
<b>3-1/2</b>	T	23013	R	23031	N	23051	N	23066	N	23078	I	23094	E	23110
<b>3-3/4</b>		—	R	23032		—		—		—	I	23095	E	23111
<b>4</b>	R	23014	R	23033	N	23052	N	23067	I	23079	I	23096	E	23112
<b>4-1/2</b>	R	23015	R	23034	N	23053		—	I	23080	I	23097	E	23113
<b>5</b>	R	23016	N	23035	N	23054		—	I	23081	I	23098	E	23114
<b>5-1/2</b>	R	23017	N	23036	N	23055		—	I	23082	I	23099	E	23115
<b>6</b>	R	23018	N	23037	N	23056		—	I	23083	E	23100	E	23116

FINISHED HEX NUTS		
SIZE		PART
1/4-20	T	52300
5/16-18	T	52302
3/8-16	T	52304
7/16-14	T	52306
1/2-13	T	52308
5/8-11	T	52312
3/4-10	T	52314

UNIFIT™ FLATWASHERS		
SIZE		PART
1/4	U	6500
5/16	U	6501
3/8	U	6502
7/16	U	6503
1/2	T	6504
5/8	T	6506
3/4	T	6507

LOCK WASHERS		
SIZE		PART
1/4	U	71210
5/16	U	71212
3/8	U	71214
7/16	U	71216
1/2	U	71218
5/8	U	71222
3/4	U	71224

# BIN ASSORTMENTS

## CARRIAGE BOLTS

### *40-Compartment Steel Bin*



***You Receive a 40-Compartment Bin Labeled for 40 of the Fastest Moving Sizes Needed in Maintenance!***

**PART NO. 7827**

**ONE STEEL 40-HOLE BIN**

33-3/4" wide, 22-1/2" high, 12" deep\*

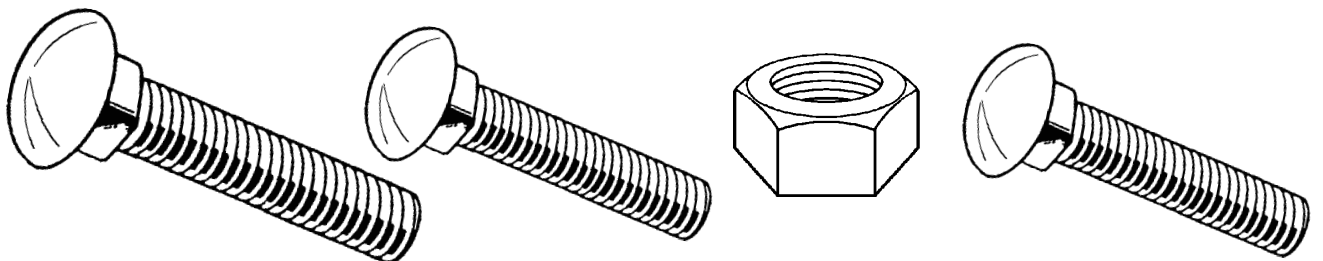
\*Can be shipped via UPS

**INCLUDED IN THE ORIGINAL ASSORTMENT YOU WILL RECEIVE 40 DIFFERENT ITEMS. YOU WILL BE ABLE TO FILL IN ADDITIONAL SIZES EACH MONTH ON MY SERVICE CALL. COMPARTMENTS ARE FULLY LABELED. (See Plan-A-Graph for complete details)**

#### **ASSORTMENT CONTAINS:**

36 Sizes Carriage Bolts ..... 1/4" thru 1/2" Diameter  
4 Sizes Alloy Finished Hex Nuts ..... 1/4" thru 1/2" Diameter

1 P/N 7903 — 40-Compartment Bin



# CARRIAGE BOLT BIN ASSORTMENT

**P/N 7827 — 40 ITEMS / 40 HOLES**

1/4-20 HEX NUT 52300	1/4 x 3/4 CARRIAGE BOLT 22825	1/4 x 1 CARRIAGE BOLT 22826	1/4 x 1-1/4 CARRIAGE BOLT 22827	1/4 x 1-1/2 CARRIAGE BOLT 22828	1/4 x 1-3/4 CARRIAGE BOLT 22823	1/4 x 2 CARRIAGE BOLT 22829	1/4 x 2-1/2 CARRIAGE BOLT 22830
5/16-18 HEX NUT 52302	1/4 x 3 CARRIAGE BOLT 22831	1/4 x 3-1/2 CARRIAGE BOLT 22832	1/4 x 4 CARRIAGE BOLT 22833	1/4 x 4-1/2 CARRIAGE BOLT 22834	1/4 x 5 CARRIAGE BOLT 22835	5/16 x 1 CARRIAGE BOLT 22840	5/16 x 1-1/4 CARRIAGE BOLT 22841
3/8-16 HEX NUT 52304	5/16 x 1-1/2 CARRIAGE BOLT 22842	5/16 x 1-3/4 CARRIAGE BOLT 22854	5/16 x 2 CARRIAGE BOLT 22843	5/16 x 2-1/2 CARRIAGE BOLT 22844	5/16 x 3 CARRIAGE BOLT 22845	5/16 x 3-1/2 CARRIAGE BOLT 22846	5/16 x 4 CARRIAGE BOLT 22847
1/2-13 HEX NUT 52308	3/8 x 1 CARRIAGE BOLT 22855	3/8 x 1-1/4 CARRIAGE BOLT 22856	3/8 x 1-1/2 CARRIAGE BOLT 22857	3/8 x 1-3/4 CARRIAGE BOLT 22869	3/8 x 2 CARRIAGE BOLT 22858	3/8 x 2-1/2 CARRIAGE BOLT 22859	3/8 x 3 CARRIAGE BOLT 22860
3/8 x 3-1/2 CARRIAGE BOLT 22861	3/8 x 4 CARRIAGE BOLT 22862	1/2 x 1-1/2 CARRIAGE BOLT 22878	1/2 x 2 CARRIAGE BOLT 22879	1/2 x 2-1/2 CARRIAGE BOLT 22880	1/2 x 3 CARRIAGE BOLT 22881	1/2 x 3-1/2 CARRIAGE BOLT 22882	1/2 x 4 CARRIAGE BOLT 22883

# BIN ASSORTMENTS GRADE 2 HEX TAP BOLTS

## *40-Compartment Steel Bin*



***You Receive a 40-Compartment Bin Labeled for 40 of the Fastest Moving Sizes Needed in Maintenance!***

### **PART NO. 7839**

**ONE STEEL 40-HOLE BIN**

33-3/4" wide, 22-1/2" high, 12" deep\*

\*Can be shipped via UPS

**INCLUDED IN THE ORIGINAL ASSORTMENT YOU WILL RECEIVE 40 DIFFERENT ITEMS. YOU WILL BE ABLE TO FILL IN ADDITIONAL SIZES EACH MONTH ON MY SERVICE CALL. COMPARTMENTS ARE FULLY LABELED.**

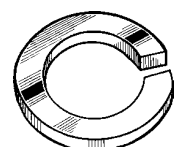
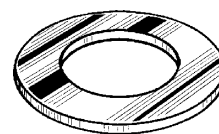
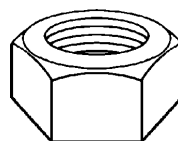
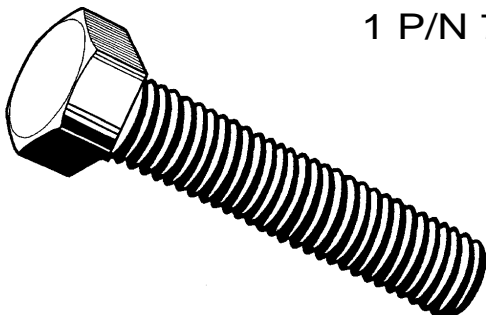
(See Plan-A-Graph for complete details)

*Use Bin Label Set #168224*

### **ASSORTMENT CONTAINS:**

25 Sizes Grade 2 Hex Tap Bolts ..... 1/4" thru 1/2" Diameter  
5 Sizes Finished Hex Nuts ..... 1/4" thru 1/2" Diameter  
5 Sizes UniFit™ Flat Washers ..... 1/4" thru 1/2" Diameter  
5 Sizes Lock Washers ..... 1/4" thru 1/2" Diameter

1 P/N 7903 — 40-Compartment Bin





# GRADE 2 HEX TAP BOLTS ASSORTMENT

**P/N 7839 — USS SIZES — 40 ITEMS / 40 HOLES**

1/4-20 FINISHED HEX NUT 52300	1/4 UNI-FIT™ FLAT WASHER 6500	1/4 LOCK WASHER 71210	1/4 x 1/2 CAP SCREW 23000	1/4 x 3/4 CAP SCREW 23002	1/4 x 1 CAP SCREW 23003	1/4 x 1-1/2 CAP SCREW 23005	1/4 x 2 CAP SCREW 23007
5/16-18 FINISHED HEX NUT 52302	5/16 UNI-FIT™ FLAT WASHER 6501	5/16 LOCK WASHER 71212	5/16 x 1/2 CAP SCREW 23019	5/16 x 3/4 CAP SCREW 23021	5/16 x 1 CAP SCREW 23022	5/16 x 1-1/2 CAP SCREW 23024	5/16 x 2 CAP SCREW 23026
3/8-16 FINISHED HEX NUT 52304	3/8 UNI-FIT™ FLAT WASHER 6502	3/8 LOCK WASHER 71214	3/8 x 3/4 CAP SCREW 23040	3/8 x 1 CAP SCREW 23041	3/8 x 1-1/4 CAP SCREW 23042	3/8 x 1-1/2 CAP SCREW 23043	3/8 x 2 CAP SCREW 23045
7/16-14 FINISHED HEX NUT 52306	7/16 UNI-FIT™ FLAT WASHER 6503	7/16 LOCK WASHER 71216	7/16 x 1 CAP SCREW 23057	7/16 x 1-1/2 CAP SCREW 23059	7/16 x 2 CAP SCREW 23061	7/16 x 2-1/2 CAP SCREW 23063	7/16 x 3 CAP SCREW 23065
1/2-13 FINISHED HEX NUT 52308	1/2 UNI-FIT™ FLAT WASHER 6504	1/2 LOCK WASHER 71218	1/2 x 1 CAP SCREW 23069	1/2 x 1-1/2 CAP SCREW 23071	1/2 x 2 CAP SCREW 23073	1/2 x 2-1/2 CAP SCREW 23075	1/2 x 3 CAP SCREW 23077