

ALLOY 200 FASTENERS



Tested and proven to be the toughest preventive maintenance fastening system available. All components are manufactured to exacting specifications, precision heat treated for shock absorbing, fatigue resistant ductility and then plated for corrosion resistance and durability.



CHROMATE INDUSTRIAL CORP.

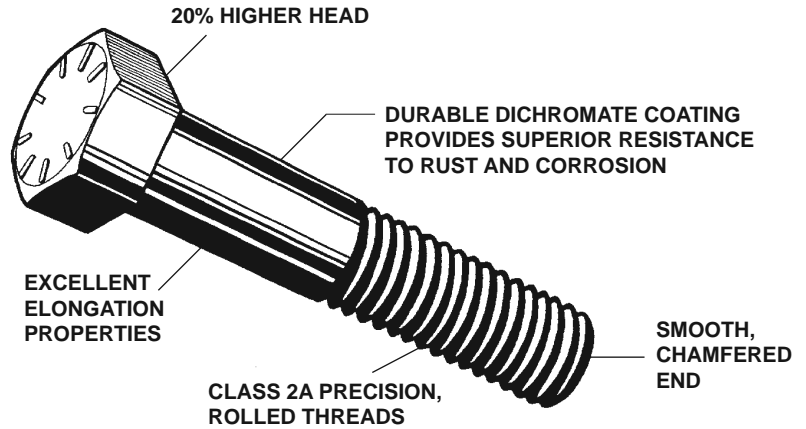
EXCEPTIONAL PRODUCTS, SERVICE AND INNOVATIVE SOLUTIONS

ALLOY 200 CAP SCREWS

THE PREVENTIVE MAINTENANCE CAP SCREW

Triple heat treated alloy steel. U.S. made with U.S. steel and U.S. Labor. 180,000 psi minimum tensile strength. Thicker head for easier torquing and less wrench slippage. Rockwell "C" hardness 38 - 43.

- **GRADE 9**
- **180,000 PSI MINIMUM TENSILE STRENGTH**
Provides superior clamping force to withstand extreme loads and severe vibration
- **PRECISION HEAT TREATING**
Produces strength and toughness
- **COLD ROLLED THREADS AND CHAMFERED POINT**
Assures easier and smoother thread engagement and greater holding power
- **20% HIGHER HEAD**
Allows full wrench grip – assuring even more torque distribution and eliminating slippage
- **SMOOTH PRECISION-FORMED WASHER FACE AND FILLET**
Distributes loads evenly, maintaining proper clamping force and minimizing head stress



MADE IN AMERICA WITH AMERICAN STEEL

Highest quality materials made to exacting specifications for quality and reliability

LENGTH (INCHES)	1/4" DIA.		5/16" DIA.		3/8" DIA.		7/16" DIA.	
	USS 20	SAE 28	USS 18	SAE 24	USS 16	SAE 24	USS 14	SAE 20
1/2	T 4005	T 3005	T 4060	T 3060	T 4115	T 3115	–	–
5/8	T 4007	T 3007	T 4062	T 3062	T 4116	T 3116	–	–
7/8	–	–	–	–	–	–	–	–
3/4	T 4010	T 3010	T 4065	T 3065	T 4120	T 3120	R 4180	R 3180
1	T 4015	T 3015	T 4070	T 3070	T 4125	T 3125	R 4185	R 3185
1-1/4	T 4020	T 3020	T 4075	T 3075	R 4130	R 3130	R 4190	R 3190
1-1/2	T 4025	T 3025	T 4080	T 3080	R 4135	R 3135	R 4195	R 3195
1-3/4	T 4030	T 3030	T 4085	T 3085	R 4140	R 3140	R 4200	R 3200
2	T 4035	T 3035	T 4090	T 3090	R 4145	R 3145	R 4205	R 3205
2-1/4	R 4037	R 3037	R 4093	R 3093	R 4148	R 3148	R 4208	R 3208
2-1/2	R 4040	R 3040	R 4095	R 3095	R 4150	R 3150	N 4210	N 3210
2-3/4	R 4043	R 3043	R 4097	R 3097	R 4152	R 3152	–	–
3	R 4045	R 3045	R 4100	R 3100	R 4155	R 3155	N 4215	N 3215
3-1/4	–	–	–	–	–	–	–	–
3-1/2	R 4050	R 3050	R 4105	R 3105	N 4160	N 3160	L 4220	L 3220
3-3/4	–	–	–	–	–	–	–	–
4	N 4055	N 3055	N 4110	N 3110	N 4165	N 3165	L 4225	L 3225
4-1/4	–	–	–	–	–	–	–	–
4-1/2	N 4056	N 3056	L 4111	L 3111	L 4167	L 3167	L 4227	L 3227
4-3/4	–	–	–	–	–	–	–	–
5	N 4057	N 3057	L 4112	L 3112	L 4170	L 3170	I 4230	I 3230
5-1/4	–	–	–	–	–	–	–	–
5-1/2	L 4058	L 3058	L 4113	L 3113	L 4172	L 3172	I 4232	I 3232
5-3/4	–	–	–	–	–	–	–	–
6	L 4059	L 3059	L 4114	L 3114	L 4175	L 3175	I 4234	I 3234

ALLOY 200 CAP SCREWS

THE PREVENTIVE MAINTENANCE CAP SCREW

10

LENGTH (INCHES)	1/2" DIA.		9/16" DIA.		5/8" DIA.		3/4" DIA.									
	USS 13	SAE 20	USS 12	SAE 18	USS 11	SAE 18	USS 10	SAE 16								
3/4	R	4240	R	3240	-	-	-	-	-							
1	R	4245	R	3245	L	4310	L	3310	L	4345	L	3345	-	-		
1-1/4	R	4250	R	3250	L	4315	L	3315	L	4350	L	3350	I	4412	-	
1-1/2	N	4255	N	3255	L	4320	L	3320	L	4355	L	3355	I	4415	I	3415
1-3/4	N	4260	N	3260	L	4323	L	3323	L	4357	L	3357	I	4417	I	3417
2	N	4265	N	3265	L	4325	L	3325	L	4360	L	3360	I	4420	I	3420
2-1/4	N	4267	N	3267	L	4328	L	3328	L	4363	L	3363	I	4423	I	3423
2-1/2	N	4270	N	3270	L	4330	L	3330	L	4365	L	3365	I	4425	I	3425
2-3/4	N	4272	N	3272	-	-	-	-	L	4366	L	3366	I	4427	I	3427
3	N	4275	N	3275	L	4335	L	3335	L	4370	L	3370	I	4430	I	3430
3-1/4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
3-1/2	L	4280	L	3280	I	4337	I	3337	I	4375	I	3375	I	4435	I	3435
3-3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4	L	4285	L	3285	I	4340	I	3340	I	4380	I	3380	I	4440	I	3440
4-1/4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
4-1/2	L	4290	L	3290	I	4341	I	3341	I	4385	I	3385	E	4445	E	3445
4-3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5	I	4295	I	3295	I	4342	I	3342	I	4390	I	3390	E	4450	E	3450
5-1/4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
5-1/2	I	4300	I	3300	I	4343	I	3343	E	4392	E	3392	A	4453	A	3453
5-3/4	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
6	E	4305	E	3305	I	4344	I	3344	A	4395	A	3395	A	4455	A	3455
6-1/2	E	4303	E	3303	-	-	-	-	A	4396	A	3396	A	4456	A	3456
7	E	4306	E	3306	-	-	-	-	A	4397	A	3397	A	4457	A	3457
7-1/2	E	4304	E	3304	-	-	-	-	A	4399	A	-	A	4459	A	3459
8	E	4307	E	3307	-	-	-	-	A	4398	A	3398	A	4458	A	3458
8-1/2	-	-	-	-	-	-	-	-	A	4401	A	3401	-	-	-	-
9	-	-	-	-	-	-	-	-	A	4402	A	3402	A	4463	A	3463
9-1/2	-	-	-	-	-	-	-	-	-	-	-	-	A	4464	A	-
10	-	-	-	-	-	-	-	-	A	4404	-	-	A	4465	A	3465

ALLOY 200 CAP SCREWS

THE PREVENTIVE MAINTENANCE CAP SCREW

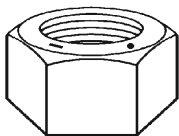
LENGTH (INCHES)	7/8" DIA.		1" DIA.		1-1/8" DIA.		1-1/4" DIA.	
	USS 9	SAE 14	USS 8	SAE 14	USS 7	SAE 12	USS 7	SAE 12
2	B 4470	B 3470	A 4515	A 3515	–	A 3578	–	–
2-1/4	–	–	–	–	–	A 3579	–	A 3532
2-1/2	B 4475	B 3475	A 4520	A 3520	–	A 3580	–	A 3533
2-3/4	–	–	–	–	–	A 3581	–	A 3534
3	B 4480	B 3480	A 4525	A 3525	A 4582	A 3582	A 4536	A 3536
3-1/4	–	–	–	–	A 4583	A 3583	A 4537	A 3537
3-1/2	A 4485	A 3485	A 4530	A 3530	A 4584	A 3584	A 4538	A 3538
3-3/4	–	–	–	–	A 4585	A 3585	A 4539	A 3539
4	A 4490	A 3490	A 4535	A 3535	A 4586	A 3586	A 4541	A 3541
4-1/4	–	–	–	–	–	–	–	–
4-1/2	A 4495	A 3495	A 4540	A 3540	A 4587	A 3587	A 4542	A 3542
4-3/4	–	–	–	–	–	–	–	–
5	A 4500	A 3500	A 4545	A 3545	A 4588	A 3588	A 4543	A 3543
5-1/4	–	–	–	–	–	–	–	–
5-1/2	A 4505	A 3505	A 4550	A 3550	A 4589	A 3589	A 4544	A 3544
5-3/4	–	–	–	–	–	–	–	–
6	A 4510	A 3510	A 4555	A 3555	A 4590	A 3590	A 4546	A 3546
6-1/2	A 4503	A 3503	A 4559	A 3559	A 4591	A 3591	A 4547	A 3547
7	A 4511	A 3511	A 4557	A 3557	A 4592	A 3592	A 4571	A 3571
7-1/2	A 4504	–	A 4549	A 3549	A 4593	A 3593	A 4572	A 3572
8	A 4512	A 3512	A 4558	A 3558	A 4594	A 3594	A 4573	A 3573
8-1/2	A 4506	–	A 4551	A 3551	A 4595	A 3595	A 4574	A 3574
9	A 4507	–	A 4552	A 3552	A 4596	A 3596	A 4575	A 3575
9-1/2	–	–	A 4553	A 3553	A 4597	A 3597	A 4576	A 3576
10	A 4509	–	A 4554	A 3554	A 4598	A 3598	A 4577	A 3577

ALLOY 200 HEX NUTS

DEVELOPED FOR HIGHER STRENGTH APPLICATIONS

Chromate ALLOY 200 series hex nuts provide superior performance for all critical applications.

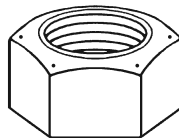
FINISHED THICK HEX NUTS



- USE WITH ALLOY 200 CAP SCREWS FOR BALANCED ASSEMBLY
- EXCEEDS GRADE 8 SPECIFICATIONS BY 20%
- TRIPLE HEAT TREATED
- 30% THICKER FOR GREATER HOLDING/WRENCHING POWER
- 180,000 PSI MINIMUM TENSILE STRENGTH
- DICHROMATE PLATING AND WAXED

SIZE	TPI		WAF	HGT	USS	SAE
	USS	SAE				
T 1/4	20	28	7/16	9/32	4700	3700
T 5/16	18	24	1/2	21/64	4705	3705
T 3/8	16	24	9/16	13/32	4710	3710
R 7/16	14	20	11/16	29/64	4715	3715
R 1/2	13	20	3/4	9/16	4720	3720
N 9/16	12	18	7/8	39/64	4725	3725
N 5/8	11	18	15/16	23/32	4730	3730
L 3/4	10	16	1-1/8	13/16	4735	3735
I 7/8	9	14	1-5/16	27/32	4740	3740
E 1	8	14	1-1/2	1	4745	3745
B 1-1/8	7	12	1-11/16	1-3/16	4746	-
B 1-1/4	7	12	1-7/8	1-1/4	4747	3747
B 1-1/2	6	12	2-1/4	1-1/2	4748	-

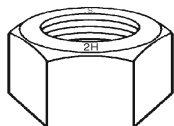
PREVAILING TORQUE TAPER LOCK NUTS



- USE WITH ALLOY 200 AND GRADE 8 CAP SCREWS
- GRADE C SPECIFICATIONS
- TRIPLE HEAT TREATED
- SUPERIOR VIBRATION AND SHOCK RESISTANCE
- 150,000 PSI
- CLEAR PLATING ZINC

SIZE	TPI		WAF	HGT	USS	SAE
	USS	SAE				
T 1/4	20	28	7/16	1/4	6800	5800
T 5/16	18	24	1/2	19/64	6805	5805
T 3/8	16	24	9/16	3/8	6810	5810
R 7/16	14	20	11/16	27/64	6815	5815
R 1/2	13	20	3/4	1/2	6820	5820
N 9/16	12	18	7/8	35/64	6825	5825
N 5/8	11	18	15/16	41/64	6830	5830
L 3/4	10	16	1-1/8	47/64	6835	5835
I 7/8	9	14	1-5/16	27/32	6840	5840
E 1	8	14	1-1/2	15/16	6845	5845
B 1-1/8	7	12	1-11/16	1-3/16	6846	5846
B 1-1/4	7	12	1-7/8	1-9/32	6847	5847
B 1-3/8	6	12	2-1/16	1-13/32	6842	-
B 1-1/2	6	12	2-1/4	1-17/32	6848	-

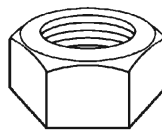
USS 2H HEAVY HEX NUTS



- EXTRA WIDTH FOR OVERSIZE WRENCHING
- MEETS ASTM 194-2H
- ANSI /ASME B18.2.1 1981
- PLAIN FINISH

SIZE	WAF	HEIGHT	USS
3/8 - 16	11/16	23/64	R 4840
1/2 - 13	7/8	31/64	R 4850
5/8 - 11	1-1/16	39/64	N 4855
3/4 - 10	1-1/4	47/64	L 4860
7/8 - 9	1-7/16	55/64	I 4865
1 - 8	1-5/8	63/64	I 4870
1-1/4 - 7	2	1-7/32	B 4878
1-3/8 - 7	2-3/16	1-11/32	B 4882
1-1/2 - 6	2-3/8	1-15/32	B 4885

GRADE 8 FINISHED NUTS



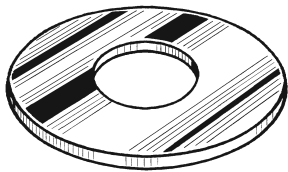
- TRIPLE HEAT TREATED
- MEETS GRADE 8 SPECIFICATIONS
- DICHROMATE PLATING

SIZE	TPI		WAF	HGT	USS	SAE
	USS	SAE				
T 1/4	20	28	7/16	7/32	8926	8905
T 5/16	18	24	1/2	17/64	8927	8906
T 3/8	16	24	9/16	21/64	8928	8907
R 7/16	14	20	11/16	3/8	8929	8908
R 1/2	13	20	3/4	7/16	8930	8909
R 9/16	12	18	7/8	31/64	8931	8910
R 5/8	11	18	15/16	35/64	8932	8911
N 3/4	10	16	1-1/8	41/64	8933	8912
I 7/8	9	14	1-5/16	3/4	8934	8913
I 1	8	14	1-1/2	55/64	8935	8914
E 1-1/8	7	12	1-11/16	31/32	13571	4771
E 1-1/4	7	12	1-7/8	1-1/16	13572	4772
B 1-3/8	6	12	2-1/16	1-11/64	13573	4773
B 1-1/2	6	12	2-1/4	1-9/32	13574	4774

ALLOY 200 WASHERS

WIDE BAND, NARROW BAND, FLAT AND LOCK

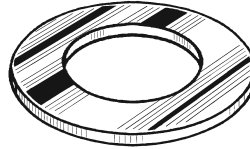
USS WIDE BAND FLAT WASHERS



- TRIPLE HEAT TREATED
- USS DIMENSIONS
- SMOOTH BEARING SURFACE
- DICHROMATE PLATING

	SIZE	I.D.	O.D.	PART
T	1/4	5/16	3/4	8000
T	5/16	3/8	7/8	8001
T	3/8	7/16	1	8002
T	7/16	1/2	1-1/4	8003
T	1/2	9/16	1-3/8	8004
R	9/16	5/8	1-1/2	8005
R	5/8	11/16	1-3/4	8006
N	3/4	13/16	2	8007
N	7/8	15/16	2-1/4	8008
N	1	1-1/16	2-1/2	8009
I	1-1/8	1-1/4	2-3/4	8010
I	1-1/4	1-3/8	3	8011
I	1-3/8	1-1/2	3-1/4	8027
E	1-1/2	1-5/8	3-1/2	8012

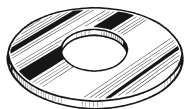
SAE NARROW BAND FLAT WASHERS



- TRIPLE HEAT TREATED
- SAE DIMENSIONS
- SMOOTH BEARING SURFACE
- DICHROMATE PLATING

	SIZE	I.D.	O.D.	PART
T	1/4	9/32	5/8	9000
T	5/16	11/32	11/16	9001
T	3/8	13/32	13/16	9002
T	7/16	15/32	59/64	9003
T	1/2	17/32	1-1/16	9004
R	9/16	19/32	1-3/16	9005
R	5/8	11/16	1-5/16	9006
N	3/4	13/16	1-15/32	9007
N	7/8	15/16	1-3/4	9008
N	1	1-1/8	2	9009
I	1-1/8	1-1/4	2-1/4	9010
I	1-1/4	1-3/8	2-1/2	9011
I	1-3/8	1-1/2	2-3/4	9013
I	1-1/2	1-5/8	3	9012
E	1-3/4	1-7/8	3-3/8	9014

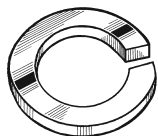
STRUCTURAL FLAT WASHERS



- HIGH STRENGTH MATERIAL
- FOR USE WITH A325 STRUCTURAL BOLTS
- PLAIN FINISH

SIZE	PART	SIZE	PART	SIZE	PART
1/2	T 1124	7/8	N 1128	1-1/4	N 1131
5/8	R 1126	1	N 1129	1-3/4	I 1133
3/4	R 1127	1-1/8	N 1130	2	E 1134

LOCK WASHERS



- TRIPLE HEAT TREATED
- RETAINS STRENGTH UNDER HIGH LOAD CONDITIONS
- MECHANICAL DICHROMATE PLATING TO AVOID HYDROGEN EMBRITTLEMENT

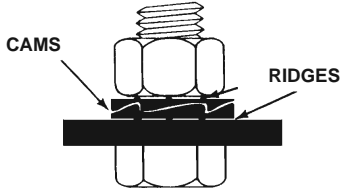
SIZE	PART	SIZE	PART
1/4	U 6300	3/4	R 6335
5/16	U 6305	7/8	R 6340
3/8	U 6310	1	N 6345
7/16	T 6315	1-1/8	I 6350
1/2	T 6320	1-1/4	I 6355
9/16	T 6325	1-1/2	E 6360
5/8	R 6330	-	-

ALLOY 200 VI-LOC WASHERS

THE MOST RELIABLE VIBRATION-RESISTANT LOCKING DEVICE AVAILABLE

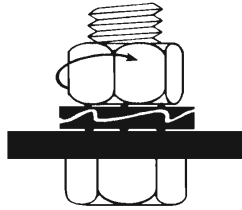
THE MORE THEY VIBRATE — THE TIGHTER THEY LOCK

Meets military specification
- MSN-5310-01-051-4149
Special Chromate protective plating
eliminates rust and corrosion.

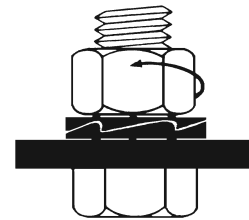


The Vi-LOC principle calls for two washer shaped pieces that have inclined cams on one side and a series of ridges on the other. When the inclined cams are mated and set-up as shown in the diagram, one washer seizes to the joint material and the other washer to the nut or capscrew.

When the bolt contracts, the inclined planes of the cams cause the nut or capscrew to rotate back to its original position. This creates a fastening system that is vibration proof and meets military specifications. The Vi-LOC fastening system may be loosened by exerting approximately 50% more torque than required for tightening.

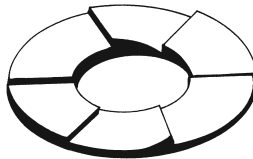


When a bolt elongates due to vibration or shock, the nut or capscrew starts to rotate loose. The Vi-LOC system prevents this since the cam rise angle is greater than the lead angle of the thread. As one piece of the Vi-LOC attempts to rotate with the nut or capscrew, the preload is actually increased, forcing the assembly back to a tight fitting unit.



ALLOY 200 VI-LOC WASHERS

- USE ONLY IN PAIRS
- SELF-MATING
- RIDGES ON OUTSIDE



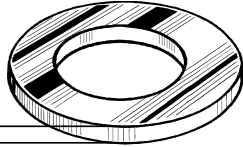
- RESISTS:**
- VIBRATION
 - LOST HOLDING POWER
 - SLIPPAGE
 - WEAR
 - EQUIPMENT BREAKDOWN

SIZE	INSIDE DIA.	OUTSIDE DIA.	PART	SIZE	INSIDE DIA.	OUTSIDE DIA.	PART
3/16 (5mm)	.203"	.401"	T 6100	9/16 (14mm)	.572"	1.128"	L 6106
1/4 (6mm)	.262"	.495"	T 6101	5/8 (16mm)	.651"	1.247"	L 6107
5/16 (8mm)	.326"	.628"	T 6102	3/4 (20mm)	.820"	1.381"	L 6110
3/8 (10mm)	.409"	.705"	R 6103	7/8 (22mm)	.883"	1.470"	I 6111
7/16 (11mm)	.450"	.880"	R 6104	1" (25mm)	1.015"	1.626"	I 6112
1/2 (12mm)	.510"	1.005"	Q 6105	-	-	-	-

ALLOY 200 XT™ FLAT WASHERS

FOR ULTRA-HIGH STRENGTH APPLICATIONS

ALLOY 200 XT™ FLAT WASHERS PROVIDE THE ULTIMATE IN LOAD BEARING PERFORMANCE



75%
THICKER

- **EXTRA THICK PATTERN**
75% THICKER THAN STANDARD SAE WASHERS
– ELIMINATING DISHING, BENDING AND GALLING.
- **MANUFACTURED FROM HIGH STRENGTH, HEAT-TREATED ALLOY STEEL**
PROVIDES SUPERIOR STRENGTH TO ACHIEVE HIGHEST CLAMPING LOADS AVAILABLE.
- **YELLOW DICHROMATE PLATING**
ASSURES SUPERIOR RESISTANCE TO RUST AND CORROSION FOR LONGER LIFE.

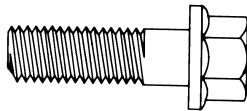
SIZE	THICKNESS	ID	OD	PART
1/4	3/32 - 7/64	9/32	5/8	T 5900
5/16	3/32 - 7/64	11/32	11/16	T 5901
3/8	3/32 - 7/64	13/32	13/16	T 5902
7/16	3/32 - 7/64	15/32	59/64	T 5903
1/2	5/32 - 3/16	17/32	1-1/16	R 5904
5/8	11/64 - 13/64	11/16	1-5/16	R 5906
3/4	11/64 - 13/64	13/16	1-15/32	N 5907
7/8	15/64 - 17/64	15/16	1-3/4	N 5908
1	15/64 - 17/64	1-1/8	2	L 5909

HEX FLANGE BOLTS AND LOCK NUTS

WHEN A STRONG BEARING SURFACE IS REQUIRED

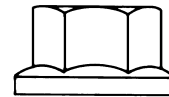
- Triple heat treated alloy steel. U.S. made with U.S. steel and U.S. Labor.
- Minimum 150,000 psi tensile strength
- For use on Autocar, International Harvester, Mack, Peterbilt, Western, White and many other types of heavy equipment
- Eliminates the need for washers
- Grade "GT" Hex Flange Locknuts recommended for use with flange bolts
- ALLOY 200 and Grade 8.2 applications
- Improves bearing load surface
- Meets IFI-107 specifications
- USS class 2 Threads
- 30% stronger than standard nuts

HEX FLANGE BOLTS



LENGTH	3/8-16	1/2-13	5/8-11	3/4-10
1	L 19503	-	-	-
1-1/4	L 19504	L 19517	-	-
1-1/2	L 19505	L 19518	I 19536	-
1-3/4	L 19508	-	-	-
2	L 19509	L 19522	I 19540	I 19550
2-1/4	L 19512	-	I 19541	E 19552
2-1/2	-	L 19526	I 19544	E 19554
3	-	I 19528	I 19546	-
3-1/2	-	-	I 19548	-
4	-	I 19532	I 19549	E 19560

HEX FLANGE LOCK NUTS



SIZE	WAF	USS	SAE
1/4	7/16	R 19589	-
3/8	9/16	R 19590	-
1/2	3/4	N 19592	R 19582
5/8	15/16	L 19594	L 19584
3/4	1 - 1/8	I 19596	E 19585

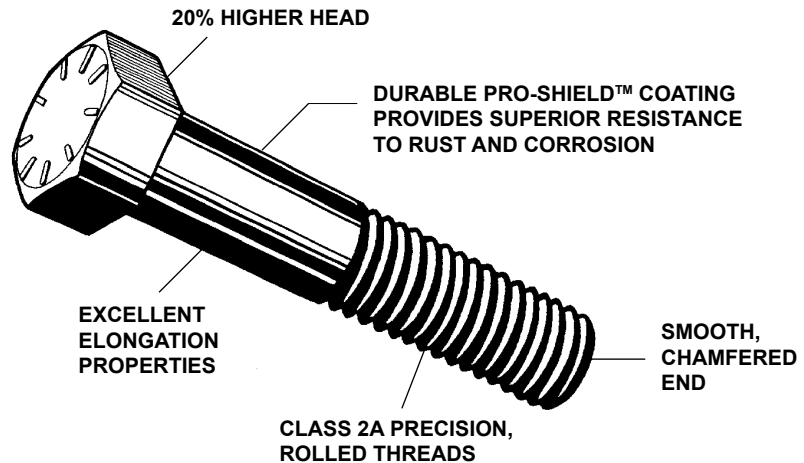
CIC 200™ PRO-SHIELD™ CAP SCREWS

ULTIMATE STRENGTH AND MAXIMUM CORROSION RESISTANCE

10

Precision heat treated alloy steel. U.S. made with U.S. steel and U.S. Labor. Up to 200,000 psi tensile strength. Thicker head for easier torquing and less wrench slippage. Rockwell "C" hardness 38 - 43.

- **UP TO 200,000 PSI TENSILE STRENGTH**
Provides superior clamping force to withstand extreme loads and severe vibration
- **PRECISION HEAT TREATING**
Produces strength and toughness
- **COLD ROLLED THREADS AND CHAMFERED POINT**
Assures easier and smoother thread engagement and greater holding power
- **20% HIGHER HEAD**
Allows full wrench grip – assuring even more torque distribution and eliminating slippage
- **SMOOTH PRECISION-FORMED WASHER FACE AND FILLET**
Distributes loads evenly, maintaining proper clamping force and minimizing head stress
- **HEAD MARKED WITH CHROMATE LOGO**
Logo registered with U.S. Patent Office providing identification and traceability
- **MADE IN AMERICA WITH AMERICAN STEEL**
Highest quality materials made to exacting specifications for quality and reliability



- **PRO-SHIELD™ BARRIER COATING**
Ultimate resistance to corrosion, foreign debris and chemicals

LENGTH	1/4 DIA.		5/16 DIA.		3/8 DIA.		7/16 DIA.		1/2 DIA.	
	USS 20		USS 18		USS 16		USS 14		USS 13	
1/2	T	4005PS	T	4060PS		-		-		-
3/4	T	4010PS	T	4065PS		-		-		-
1	T	4015PS	T	4070PS	T	4125PS		-	R	4245PS
1-1/4	T	4020PS	T	4075PS	R	4130PS		-		-
1-1/2	T	4025PS	T	4080PS	R	4135PS	R	4195PS	N	4255PS
1-3/4	T	4030PS	T	4085PS	R	4140PS	R	4200PS	N	4260PS
2	T	4035PS	T	4090PS	R	4145PS	R	4205PS	N	4265PS
2-1/4	R	4037PS		-	R	4148PS		-	N	4267PS
2-1/2	R	4040PS	R	4095PS		-	N	4210PS	N	4270PS
3	R	4045PS	R	4100PS	N	4155PS	N	4215PS	N	4275PS
3-1/4		-		-		-		-	L	4277PS
3-1/2		-	R	4105PS	N	4160PS	L	4220PS	L	4280PS
3-3/4		-		-		-		-	L	4282PS
4		-		-	N	4165PS		-	L	4285PS
4-1/4		-		-		-		-	L	4287PS
4-1/2		-		-		-		-	L	4290PS
5		-		-		-		-	I	4295PS
6		-		-		-		-	E	4305PS

Part number in bold italic type is a non-stock item. Please allow 2-3 weeks for delivery.

CIC 200™ PRO-SHIELD™ CAP SCREWS

ULTIMATE STRENGTH AND MAXIMUM CORROSION RESISTANCE

LENGTH	9/16 DIA.	5/8 DIA.	3/4 DIA.	7/8 DIA.	1 DIA.
	USS 12	USS 11	USS 10	USS 9	USS 8
1	-	L 4345PS	-	-	-
1-1/4	-	L 4350PS	-	-	-
1-1/2	-	L 4355PS	I 4415PS	-	-
1-3/4	-	-	I 4417PS	-	-
2	-	L 4360PS	I 4420PS	-	-
2-1/4	-	L 4363PS	-	-	-
2-1/2	-	-	I 4425PS	-	-
2-3/4	-	L 4366PS	I 4427PS	-	-
3	-	-	I 4430PS	E 4480PS	A 4525PS
3-1/2	-	I 4375PS	I 4435PS	-	-
4	-	I 4380PS	I 4440PS	A 4490PS	A 4535PS
4-1/2	-	I 4385PS	-	-	-
5	-	I 4390PS	E 4450PS	A 4500PS	A 4545PS
5-1/2	-	I 4392PS	-	-	-
6	-	A 4395PS	A 4455PS	A 4510PS	A 4555PS
7	-	-	A 4457PS	-	-

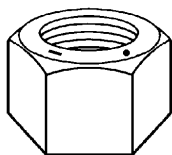
Part numbers in bold italic type are non-stock items. Please allow 2-3 weeks for delivery.

PRO-SHIELD™ NUTS AND WASHERS

DEVELOPED FOR HIGHER STRENGTH APPLICATIONS

FINISHED THICK HEX NUTS

Pro-Shield™ nuts and washers provide superior performance for all critical applications.



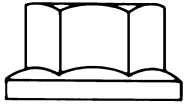
- PRO-SHIELD™ PLATING PROVIDES SUPERIOR RESISTANCE TO RUST AND CORROSION
- EXCEEDS GRADE 8 SPECIFICATIONS BY 20%
- PRECISION HEAT TREATED
- 30% THICKER FOR GREATER HOLDING/WRENCHING POWER
- UP TO 200,000 PSI TENSILE STRENGTH

SIZE	USS TPI	WAF	HGT	USS
1/4	20	7/16	17/64	T 4700PS
5/16	18	1/2	19/64	T 4705PS
3/8	16	9/16	3/8	T 4710PS
7/16	14	11/16	7/16	-
1/2	13	3/4	1/2	R 4720PS
9/16	12	7/8	9/16	-
5/8	11	15/16	41/64	N 4730PS
3/4	10	1-1/8	3/4	L 4735PS
7/8	9	1-5/16	7/8	I 4740PS
1	8	1-1/2	1	E 4745PS

PRO-SHIELD™ NUTS AND WASHERS

DEVELOPED FOR HIGHER STRENGTH APPLICATIONS

FREE SPINNING LOCKNUTS



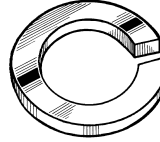
- PRECISION HEAT TREATED
- RETAINS CLAMPING FORCE DURING SEVERE VIBRATION AND SHOCK
- PRO-SHIELD™ PLATING PROVIDES SUPERIOR RESISTANCE TO RUST AND CORROSION



- NUTS LOCK WHEN TIGHTENED AGAINST A SOLID SURFACE USING THE CONVEX FLANGE
- SPINS FREELY MAKING ASSEMBLY AND DISASSEMBLY FAST AND EASY
- CAN BE RE-USED OVER AND OVER AGAIN

SIZE		PART
1/4	T	6801PS
5/16	T	6806PS
3/8	T	6811PS
1/2	R	6821PS

LOCK WASHERS



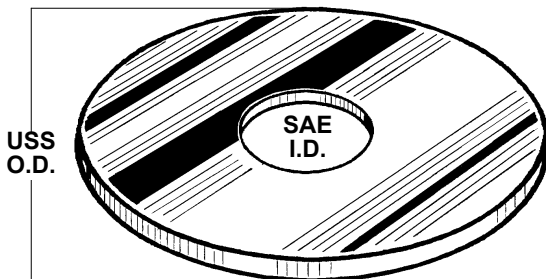
- PRECISION HEAT TREATED
- RETAINS STRENGTH UNDER HIGH LOAD CONDITIONS
- PRO-SHIELD™ PLATING PROVIDES SUPERIOR RESISTANCE TO RUST AND CORROSION

SIZE	PART	SIZE	PART	
1/4	U	5/8	R	6330PS
5/16	U	3/4	R	6335PS
3/8	U	7/8	R	6340PS
7/16	T	1	N	6345PS
1/2	T	-	-	-

PRO-SHIELD™ UNI-FIT™ FLAT WASHERS

TIGHTER TOLERANCE WITH INCREASED BEARING SURFACE

A superior strength flat washer combining the closer inside diameter tolerance of an SAE washer with the greater loading bearing surface of a USS washer.



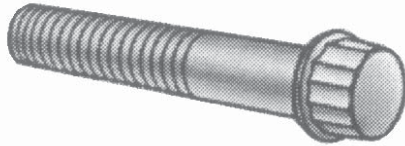
- **THICKER, WIDER PATTERN**
IMPROVED STRENGTH AND INCREASED BEARING SURFACE FOR MORE UNIFORM TORQUE TENSION PERFORMANCE
- **MARKED WITH CIC LOGO AND SIZE**
FOR TRACEABILITY AND EASY IDENTIFICATION
- **FEWER SIZES NEEDED**
LOWERS INVENTORY COSTS
- **PRO-SHIELD™ PLATING**
ASSURES SUPERIOR RESISTANCE TO RUST AND CORROSION FOR LONGER LIFE
- **MANUFACTURED FROM HIGH STRENGTH, HEAT-TREATED ALLOY STEEL**
ASSURES HIGHEST CLAMPING LOAD WITHOUT DISHING, BENDING OR GALLING

SIZE	THICKNESS	I.D.	O.D.	PART
1/4	.086	9/32	3/4	T 5400PS
5/16	.086	11/32	7/8	T 5401PS
3/8	.086	13/32	1	T 5402PS
7/16	.098	15/32	1-1/4	R 5403PS
1/2	.132	17/32	1-3/8	R 5404PS
5/8	.146	11/16	1-3/4	R 5406PS
3/4	.146	13/16	2	N 5407PS

12-POINT FLANGE SCREWS

EXCEEDS GRADE 8 STRENGTHS

The 12-Point Flange Screw can use a standard 12-point socket wrench equal to the screw size. Exceeds grade 8 strengths and allows for high torque driving.



- TENSILE STRENGTH – 170,000 PSI MINIMUM
- YIELD – 153,000 PSI MINIMUM
- PROOF LOAD – 140,000 PSI MINIMUM
- HARDNESS – 37-43 Rc
- CLASS 3A THREAD FIT
- PLAIN FINISH

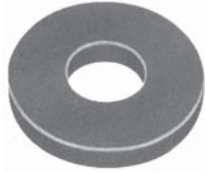
LENGTH (INCH)	1/4 DIA.		5/16 DIA.		3/8 DIA.		7/16 DIA.	
		USS 20		USS 18		USS 16		USS 14
1/2	T	19386		-		-		-
3/4	T	19340	T	19346		-		-
7/8		-	T	19347		-		-
1	T	19341	T	19348	R	19353		-
1-1/4	T	19342	R	19349	R	19354		-
1-1/2	T	19343	R	19350	R	19355	N	19362
1-3/4		-		-	R	19356		-
2	R	19344	R	19351	N	19357	N	19363
2-1/4		-		-	N	19358		-
2-1/2	R	19345	R	19352	N	19359	L	19364
2-3/4		-		-	N	19385		-
3		-		-	N	19360		-
3-1/2		-		-	N	19361		-

LENGTH (INCH)	1/2 DIA.		5/8 DIA.		3/4 DIA.	
		USS 13		USS 11		USS 10
1	L	19365		-		-
1-1/4	L	19366		-		-
1-1/2	L	19367	I	19373		-
1-3/4		-	I	19374		-
2	L	19368	I	19375	E	19380
2-1/4		-		-		-
2-1/2	I	19369	I	19376	E	19381
3	I	19370	I	19377	E	19382
3-1/2	I	19371	I	19378	E	19383
4	I	19372	I	19379	E	19384

COMPONENT WASHERS

THE STANDARD WASHER

USED IN THE TOOL AND DIE INDUSTRIES, MANUFACTURING & MACHINE SHOPS

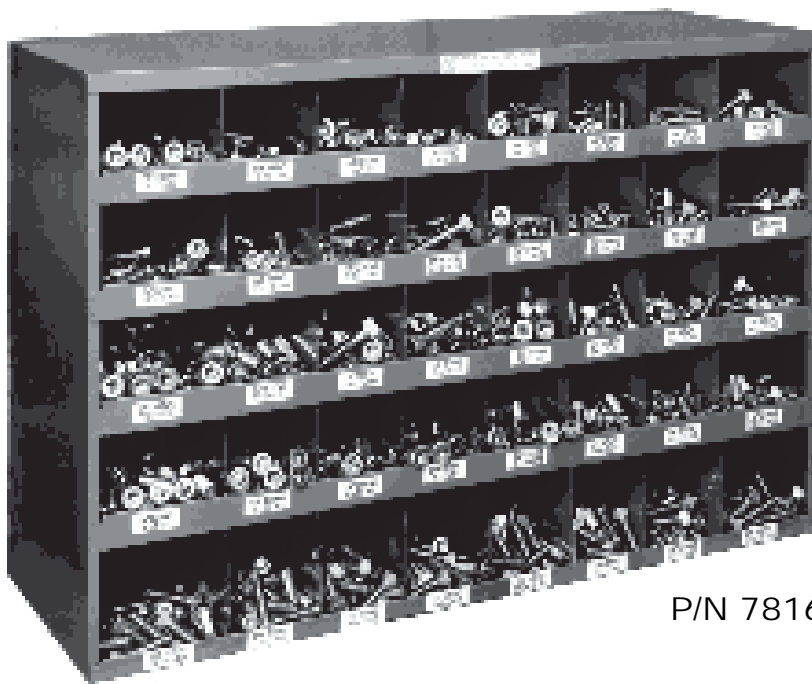


- CASE HARDENED STEEL
- BLACK OXIDE FINISH
- THICKER THAN STANDARD WASHERS

SIZE	THICKNESS	ID	OD		PART
1/4	1/8	9/32	5/8	R	14489
5/16	1/8	11/32	3/4	R	14490
3/8	1/8	13/32	7/8	R	14491
7/16	1/8	15/32	1	N	14492
1/2	1/8	17/32	1-1/8	N	14493
5/8	1/8	21/32	1-3/8	N	14494
3/4	5/32	25/32	1-5/8	N	14495
7/8	5/32	29/32	1-3/4	N	14496
1	3/16	1-1/32	2	I	14487
1-1/8	7/32	1-5/32	2-1/4	E	14488
1-1/4	9/32	1-9/32	2-1/2	B	14499

ALLOY 200 USS FASTENERS

40 HOLE USS BIN ASSORTMENT



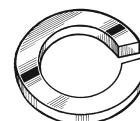
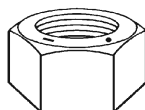
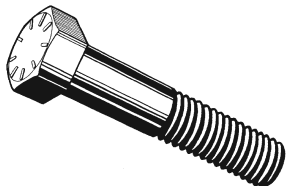
P/N 7816

This assortment is filled and labeled with 40 of the fastest moving fastener sizes for all your maintenance needs!

ASSORTMENT CONTAINS

- 25 Sizes Alloy Cap Screws 1/4" thru 1/2" Diameter
- 5 Sizes Alloy Finished Thick Hex Nuts 1/4" thru 1/2" Diameter
- 5 Sizes Alloy Flat Washers 1/4" thru 1/2" Diameter
- 5 Sizes Alloy Lock Washers 1/4" thru 1/2" Diameter
- 1 Steel 40 Hole Bin - P/N 7903 33-3/4" W x 22-1/2" H x 12" D

See Bin Assortment layout on reverse side for complete details.



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

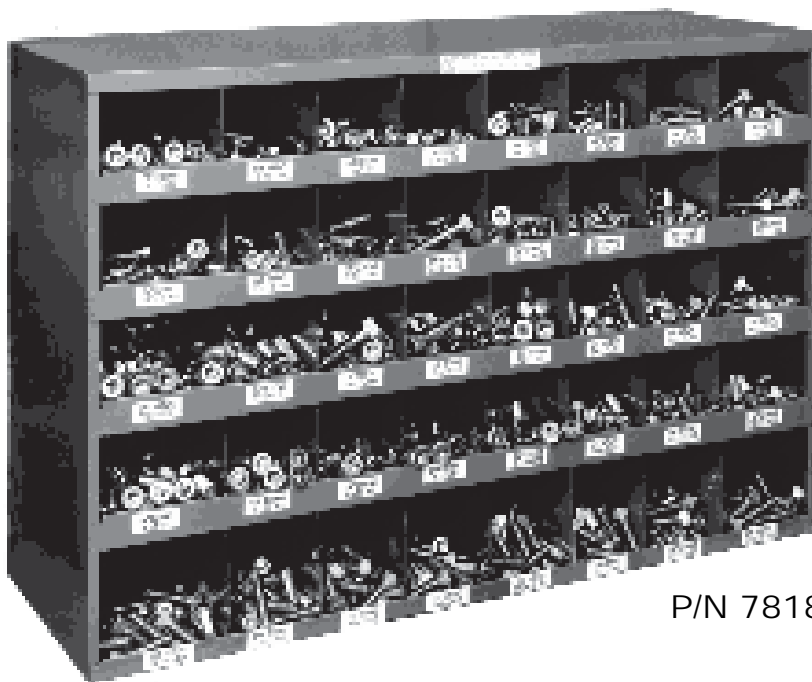
ALLOY 200 USS FASTENER ASSORTMENT

P/N 7816 — USS SIZES — 40 ITEMS / 40 HOLES

1/4-20 FIN. THICK HEX NUT 4700	1/4 UNI-FIT™ FLAT WASHER 5400	1/4 LOCK WASHER 6300	1/4 x 1/2 CAP SCREW 4005	1/4 x 3/4 CAP SCREW 4010	1/4 x 1 CAP SCREW 4015	1/4 x 1-1/2 CAP SCREW 4025	1/4 x 2 CAP SCREW 4035
5/16-18 FIN. THICK HEX NUT 4705	5/16 UNI-FIT™ FLAT WASHER 5401	5/16 LOCK WASHER 6305	5/16 x 1/2 CAP SCREW 4060	5/16 x 3/4 CAP SCREW 4065	5/16 x 1 CAP SCREW 4070	5/16 x 1-1/2 CAP SCREW 4080	5/16 x 2 CAP SCREW 4090
3/8-16 FIN. THICK HEX NUT 4710	3/8 UNI-FIT™ FLAT WASHER 5402	3/8 LOCK WASHER 6310	3/8 x 3/4 CAP SCREW 4120	3/8 x 1 CAP SCREW 4125	3/8 x 1-1/4 CAP SCREW 4130	3/8 x 1-1/2 CAP SCREW 4135	3/8 x 2 CAP SCREW 4145
7/16-14 FIN. THICK HEX NUT 4715	7/16 UNI-FIT™ FLAT WASHER 5403	7/16 LOCK WASHER 6315	7/16 x 1 CAP SCREW 4185	7/16 x 1-1/4 CAP SCREW 4190	7/16 x 1-1/2 CAP SCREW 4195	7/16 x 2 CAP SCREW 4205	7/16 x 2-1/2 CAP SCREW 4210
1/2-13 FIN. THICK HEX NUT 4720	1/2 UNI-FIT™ FLAT WASHER 5404	1/2 LOCK WASHER 6320	1/2 x 1 CAP SCREW 4245	1/2 x 1-1/2 CAP SCREW 4255	1/2 x 2 CAP SCREW 4265	1/2 x 2-1/2 CAP SCREW 4270	1/2 x 3 CAP SCREW 4275

ALLOY 200 SAE FASTENERS

40 HOLE SAE BIN ASSORTMENT



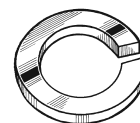
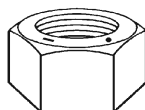
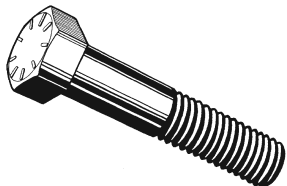
P/N 7818

This assortment is filled and labeled with 40 of the fastest moving fastener sizes for all your maintenance needs!

ASSORTMENT CONTAINS

- 25 Sizes Alloy Cap Screws 1/4" thru 1/2" Diameter
- 5 Sizes Alloy Finished Thick Hex Nuts 1/4" thru 1/2" Diameter
- 5 Sizes Alloy Flat Washers 1/4" thru 1/2" Diameter
- 5 Sizes Alloy Lock Washers 1/4" thru 1/2" Diameter
- 1 Steel 40 Hole Bin - P/N 7903 33-3/4" W x 22-1/2" H x 12" D

See Bin Assortment layout on reverse side for complete details.



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ALLOY 200 SAE FASTENER ASSORTMENT

P/N 7818 — SAE SIZES — 40 ITEMS / 40 HOLES

1/4-28 FIN. THICK HEX NUT 3700	1/4 UNI-FIT™ FLAT WASHER 5400	1/4 LOCK WASHER 6300	1/4 x 1/2 CAP SCREW 3005	1/4 x 3/4 CAP SCREW 3010	1/4 x 1 CAP SCREW 3015	1/4 x 1-1/2 CAP SCREW 3025	1/4 x 2 CAP SCREW 3035
5/16-24 FIN. THICK HEX NUT 3705	5/16 UNI-FIT™ FLAT WASHER 5401	5/16 LOCK WASHER 6305	5/16 x 1/2 CAP SCREW 3060	5/16 x 3/4 CAP SCREW 3065	5/16 x 1 CAP SCREW 3070	5/16 x 1-1/2 CAP SCREW 3080	5/16 x 2 CAP SCREW 3090
3/8-24 FIN. THICK HEX NUT 3710	3/8 UNI-FIT™ FLAT WASHER 5402	3/8 LOCK WASHER 6310	3/8 x 3/4 CAP SCREW 3120	3/8 x 1 CAP SCREW 3125	3/8 x 1-1/4 CAP SCREW 3130	3/8 x 1-1/2 CAP SCREW 3135	3/8 x 2 CAP SCREW 3145
7/16-20 FIN. THICK HEX NUT 3715	7/16 UNI-FIT™ FLAT WASHER 5403	7/16 LOCK WASHER 6315	7/16 x 1 CAP SCREW 3185	7/16 x 1-1/4 CAP SCREW 3190	7/16 x 1-1/2 CAP SCREW 3195	7/16 x 2 CAP SCREW 3205	7/16 x 2-1/2 CAP SCREW 3210
1/2-20 FIN. THICK HEX NUT 3720	1/2 UNI-FIT™ FLAT WASHER 5404	1/2 LOCK WASHER 6320	1/2 x 1 CAP SCREW 3245	1/2 x 1-1/2 CAP SCREW 3255	1/2 x 2 CAP SCREW 3265	1/2 x 2-1/2 CAP SCREW 3270	1/2 x 3 CAP SCREW 3275

ALLOY 200 USS FASTENERS

80 HOLE USS BIN ASSORTMENT



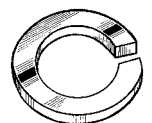
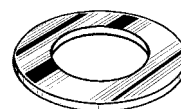
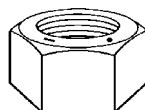
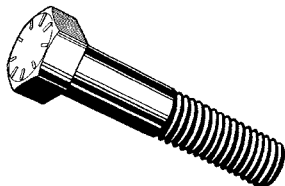
This assortment is filled and labeled with 70 of the fastest moving fastener sizes for all your maintenance needs... In 2 all steel 40 hole bins!

P/N 7801

ASSORTMENT CONTAINS

- 49 Sizes Alloy Cap Screws 1/4" thru 3/4" Diameter
- 7 Sizes Alloy Finished Thick Hex Nuts 1/4" thru 3/4" Diameter
- 7 Sizes Alloy Flat Washers 1/4" thru 3/4" Diameter
- 7 Sizes Alloy Lock Washers 1/4" thru 3/4" Diameter
- 2 Steel 40 Hole Bin - P/N 7903 33-3/4" W x 22-1/2" H x 12" D

See Bin Assortment layout on reverse side for complete details.



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

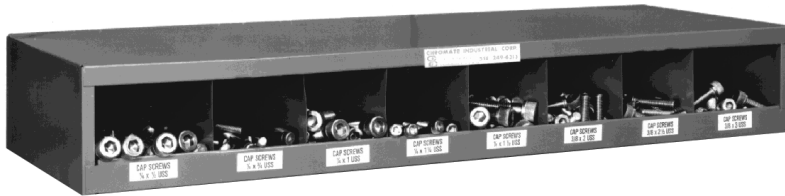
ALLOY 200 USS FASTENER ASSORTMENT

P/N 7801 — USS SIZES — 70 ITEMS / 80 HOLES

1/4-20 FINISHED HEX NUT 4700	5/16-18 FINISHED HEX NUT 4705	3/8-16 FINISHED HEX NUT 4710	7/16-14 FINISHED HEX NUT 4715	1/2-13 FINISHED HEX NUT 4720	EXPANSION	5/8-11 FINISHED HEX NUT 4730	3/4-10 FINISHED HEX NUT 4735
1/4 UNI-FIT™ FLAT WASHER 5400	5/16 UNI-FIT™ FLAT WASHER 5401	3/8 UNI-FIT™ FLAT WASHER 5402	7/16 UNI-FIT™ FLAT WASHER 5403	1/2 UNI-FIT™ FLAT WASHER 5404	EXPANSION	5/8 UNI-FIT™ FLAT WASHER 5406	3/4 UNI-FIT™ FLAT WASHER 5407
1/4 LOCK WASHER 6300	5/16 LOCK WASHER 6305	3/8 LOCK WASHER 6310	7/16 LOCK WASHER 6315	1/2 LOCK WASHER 6320	EXPANSION	5/8 LOCK WASHER 6330	3/4 LOCK WASHER 6335
1/4 x 1/2 CAP SCREW 4005	5/16 x 1/2 CAP SCREW 4060	3/8 x 3/4 CAP SCREW 4120	7/16 x 1 CAP SCREW 4185	1/2 x 1 CAP SCREW 4245	EXPANSION	5/8 x 1 CAP SCREW 4345	3/4 x 1-1/2 CAP SCREW 4415
1/4 x 3/4 CAP SCREW 4010	5/16 x 3/4 CAP SCREW 4065	3/8 x 1 CAP SCREW 4125	7/16 x 1-1/2 CAP SCREW 4195	1/2 x 1-1/2 CAP SCREW 4255	EXPANSION	5/8 x 1-1/2 CAP SCREW 4355	3/4 x 2 CAP SCREW 4420
1/4 x 1 CAP SCREW 4015	5/16 x 1 CAP SCREW 4070	3/8 x 1-1/4 CAP SCREW 4130	7/16 x 2 CAP SCREW 4205	1/2 x 2 CAP SCREW 4265	EXPANSION	5/8 x 2 CAP SCREW 4360	3/4 x 2-1/2 CAP SCREW 4425
1/4 x 1-1/2 CAP SCREW 4025	5/16 x 1-1/2 CAP SCREW 4080	3/8 x 1-1/2 CAP SCREW 4135	7/16 x 2-1/2 CAP SCREW 4210	1/2 x 2-1/2 CAP SCREW 4270	EXPANSION	5/8 x 2-1/2 CAP SCREW 4365	3/4 x 3 CAP SCREW 4430
1/4 x 2 CAP SCREW 4035	5/16 x 2 CAP SCREW 4090	3/8 x 2 CAP SCREW 4145	7/16 x 3 CAP SCREW 4215	1/2 x 3 CAP SCREW 4275	EXPANSION	5/8 x 3 CAP SCREW 4370	3/4 x 3-1/2 CAP SCREW 4435
1/4 x 2-1/2 CAP SCREW 4040	5/16 x 2-1/2 CAP SCREW 4095	3/8 x 2-1/2 CAP SCREW 4150	7/16 x 3-1/2 CAP SCREW 4220	1/2 x 3-1/2 CAP SCREW 4280	EXPANSION	5/8 x 3-1/2 CAP SCREW 4375	3/4 x 4 CAP SCREW 4440
1/4 x 3 CAP SCREW 4045	5/16 x 3 CAP SCREW 4100	3/8 x 3 CAP SCREW 4155	7/16 x 4 CAP SCREW 4225	1/2 x 4 CAP SCREW 4285	EXPANSION	5/8 x 4 CAP SCREW 4380	3/4 x 5 CAP SCREW 4450

SINGLE ROW BIN NUT ASSORTMENT

8-Compartment Single Row Steel Bin



PART NO. 7881

ONE STEEL SINGLE ROW BIN
33-3/4" wide, 5-1/4" high, 12" deep*

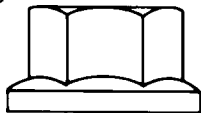
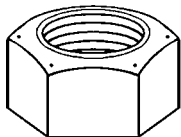
*Can be shipped via UPS

***You Receive an 8-Compartment Single Row Bin
Add-on Nut Assortment of the Fastest Moving Sizes
Needed in Maintenance!***

**INCLUDED IN THE ORIGINAL ASSORTMENT YOU WILL RECEIVE 8 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:

4 Sizes Free Spinning Flange Lock Nuts 1/4" thru 1/2" Diameter
4 Sizes Alloy 200 Taper Lock Nuts 1/4" thru 1/2" Diameter



1 P/N 7995 – 8 Compartment Single Row Bin

SINGLE ROW ADD-ON NUT ASSORTMENT

P/N 7881 — USS SIZES — 8 ITEMS / 8 HOLES

1/4-20 FREE SPINNING FLANGE NUT 6801PS	5/16-18 FREE SPINNING FLANGE NUT 6806PS	3/8-16 FREE SPINNING FLANGE NUT 6811PS	1/2-13 FREE SPINNING FLANGE NUT 6821PS	1/4-20 ALLOY 200 TAPER LOCK NUT 6800	5/16-18 ALLOY 200 TAPER LOCK NUT 6805	3/8-16 ALLOY 200 TAPER LOCK NUT 6810	1/2-13 ALLOY 200 TAPER LOCK NUT 6820
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