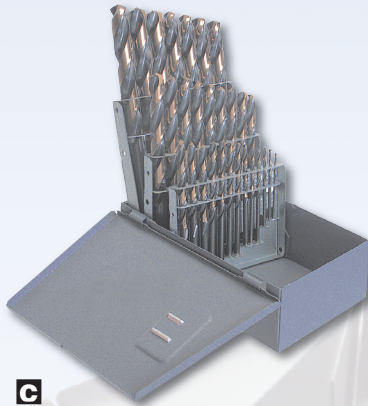


## Heavy Duty Dyno Jobber Drill Set

1/16"-1/2" by 64ths • 29-Pc. Set in Metal index

- Premium High Speed Steel
- Heavy Duty construction
- 135° Self Centering Split Point

Use in high temperature alloys, heated treated alloys, cast iron, stainless steel, titanium, etc.



**Heavy Duty Drills for Tough Applications**

Black & Bronze Oxide surface treatment reduces friction for increased speeds & feeds and longer life.

Order No. **AP50-DY162HD**

Regular Price \$74.00

**Sale \$53<sup>95</sup>**

CT-054\*64

## "Dyno Drills" Heavy Duty Jobber Length Drills



- Premium high speed steel
- Friction reducing bronze & black oxide surface treatment
- Heavy duty flute construction
- 135° Self centering split point

### Standard Package

1/16" - 19/64"	12 pcs.
5/16" - 1/2"	6 pcs.

**Recommended for low to high tensile strength materials, stainless steel, cast iron, and other heavy duty applications**

Size	OAL	Order No.	Regular Price	Sale Each	
				Less Than Pkg.	Pkg Qty.
1/16"	17/8"	AC80-004	\$0.90	\$0.72	\$0.60
5/64"	2"	AC80-005	0.90	0.72	0.60
3/32"	2 1/4"	AC80-006	0.90	0.72	0.60
7/64"	2 5/8"	AC80-007	1.05	0.85	0.75
1/8"	2 3/4"	AC80-008	0.95	0.75	0.65
9/64"	2 7/8"	AC80-009	1.10	0.85	0.75
5/32"	3 1/8"	AC80-010	1.15	0.90	0.80
11/64"	3 1/4"	AC80-011	1.20	0.95	0.85
3/16"	3 1/2"	AC80-012	1.35	1.05	0.95
13/64"	3 5/8"	AC80-013	1.45	1.15	1.00
7/32"	3 3/4"	AC80-014	1.65	1.30	1.15
15/64"	3 7/8"	AC80-015	1.75	1.40	1.20
1/4"	4"	AC80-016	1.95	1.55	1.35
17/64"	4 1/8"	AC80-017	2.20	1.75	1.50
9/32"	4 1/4"	AC80-018	2.30	1.85	1.60
19/64"	4 3/8"	AC80-019	2.65	2.10	1.85
5/16"	4 1/2"	AC80-020	2.95	2.35	2.05
21/64"	4 5/8"	AC80-021	3.25	2.60	2.25
11/32"	4 3/4"	AC80-022	3.60	2.85	2.50
23/64"	4 7/8"	AC80-023	4.10	3.25	2.85
3/8"	5"	AC80-024	4.20	3.35	2.90
25/64"	5 1/8"	AC80-025	4.75	3.80	3.30
13/32"	5 1/4"	AC80-026	4.90	3.90	3.40
27/64"	5 3/8"	AC80-027	5.45	4.35	3.80
7/16"	5 1/2"	AC80-028	5.65	4.50	3.95
29/64"	5 5/8"	AC80-029	6.25	5.00	4.35
15/32"	5 3/4"	AC80-030	6.70	5.35	4.70
31/64"	5 7/8"	AC80-031	7.00	5.60	4.90
1/2"	6"	AC80-032	7.10	5.65	4.95

**B**

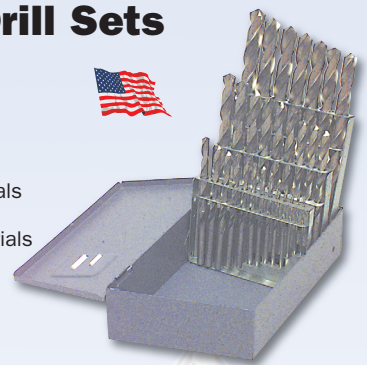
CT-204\*64

## 29-Pc. Jobber Drill Sets

1/16" - 1/2" by 64ths

- In folding metal index case
- Ground from solid

**High speed steel** for production drilling in a broad range of materials  
**Cobalt heavy duty** for drilling in tough, high tensile strength materials and longer tool life



**High Speed Steel**  
Bright Finish—118° Point  
Order No. **AP50-C162H**

Regular Price \$61.50

**Sale \$45<sup>90</sup>**

**C**

**Cobalt Heavy Duty**  
135° Split Point  
Order No. **AP50-C162CO**

Regular Price \$139.95

**Sale \$95<sup>00</sup>**

CT-053\*64

## 1/2" Shank Silver & Deming Drills

- 118° Standard Point
- High Speed Steel
- 3" Flute Length
- 6" OAL



### Round Shank

Size	Order No.	Regular Price	Sale
33/64	AK50-033	\$12.05	\$ 9.60
17/32	AK50-034	12.05	9.60
35/64	AK50-035	12.85	10.25
9/16	AK50-036	12.85	10.25
37/64	AK50-037	13.75	10.95
19/32	AK50-038	13.75	10.95
39/64	AK50-039	14.35	11.45
5/8	AK50-040	14.35	11.45
41/64	AK50-041	15.30	12.25
21/32	AK50-042	15.30	12.25
43/64	AK50-043	15.95	12.75
11/16	AK50-044	15.95	12.75
45/64	AK50-045	15.95	12.75
23/32	AK50-046	15.95	12.75
47/64	AK50-047	17.45	13.95
3/4	AK50-048	17.45	13.95
49/64	AK50-049	18.75	14.95
25/32	AK50-050	18.75	14.95
51/64	AK50-051	18.80	15.05
13/16	AK50-052	18.80	15.05
53/64	AK50-053	19.45	15.55
27/32	AK50-054	19.45	15.55
55/64	AK50-055	20.20	16.15
7/8	AK50-056	20.20	16.15
57/64	AK50-057	21.05	16.80
29/32	AK50-058	21.05	16.80
59/64	AK50-059	22.60	18.05
15/16	AK50-060	22.60	18.05
61/64	AK50-061	23.85	19.05
31/32	AK50-062	23.85	19.05
63/64	AK50-063	26.55	21.25
1	AK50-100	26.55	21.25
13/64	AK50-103	31.15	24.90
1 1/16	AK50-104	31.15	24.90
1 1/8	AK50-108	35.40	28.30
1 3/16	AK50-112	38.80	30.95
1 1/4	AK50-116	43.75	34.95
1 5/16	AK50-120	51.25	40.95
1 3/8	AK50-124	58.90	47.00
1 7/16	AK50-128	64.75	51.75
1 1/2	AK50-132	71.20	56.95

**B**

CT-482\*64

**Prices Effective January 1, 2006 Through March 31, 2006**



## Extra Long Straight Shank Drills

8" Through 18" • High Speed Steel

*Large Diameters Available At Similar Savings!*



For General Purpose Drilling In Applications Where Extra Reach Is Required

8" Overall Length 6" Flute Length			10" Overall Length 8" Flute Length			12" Overall Length 9" Flute Length			15" Overall Length 11" Flute Length			18" Overall Length 13" Flute Length		
Size	Order No.	Sale	Order No.	Sale	Order No.	Sale	Order No.	Sale	Order No.	Sale	Order No.	Sale		
1/8"	AM50-008	\$3.80	AM51-008	\$4.20	AM52-008	\$ 5.20	—	—	AM53-008	\$15.80	—	—		
9/64"	AM50-009	3.90	AM51-009	4.30	—	—	AM58-009	\$ 8.10	—	—	—	—		
5/32"	AM50-010	3.90	AM51-010	4.30	AM52-010	5.20	AM58-010	8.10	AM53-010	15.80	—	—		
11/64"	AM50-011	4.25	AM51-011	4.80	AM52-011	5.20	AM58-011	8.40	AM53-011	15.80	—	—		
3/16"	AM50-012	4.25	AM51-012	4.80	AM52-012	5.20	AM58-012	7.85	AM53-012	15.80	—	—		
13/64"	AM50-013	4.25	AM51-013	4.80	—	—	AM58-013	9.10	—	—	—	—		
7/32"	AM50-014	4.25	AM51-014	4.80	AM52-014	5.20	AM58-014	9.10	AM53-014	10.30	—	—		
15/64"	AM50-015	4.25	AM51-015	4.80	AM52-015	5.20	AM58-015	9.10	AM53-015	10.30	—	—		
1/4"	AM50-016	4.25	AM51-016	4.80	AM52-016	5.20	AM58-016	9.80	AM53-016	10.30	—	—		
17/64"	AM50-017	4.80	AM51-017	5.40	AM52-017	5.95	AM58-017	9.80	AM53-017	12.30	—	—		
9/32"	AM50-018	4.80	AM51-018	5.40	AM52-018	5.95	AM58-018	9.80	AM53-018	12.30	—	—		
19/64"	AM50-019	4.80	AM51-019	5.40	AM52-019	5.95	AM58-019	10.10	AM53-019	12.30	—	—		
5/16"	AM50-020	4.80	AM51-020	5.50	AM52-020	6.05	AM58-020	10.10	AM53-020	12.30	—	—		
21/64"	AM50-021	5.50	AM51-021	6.20	AM52-021	6.85	AM58-021	10.55	AM53-021	12.30	—	—		
11/32"	AM50-022	5.50	AM51-022	6.20	AM52-022	6.85	AM58-022	10.55	AM53-022	12.30	—	—		
23/64"	AM50-023	5.75	AM51-023	6.45	AM52-023	7.15	AM58-023	11.00	AM53-023	12.30	—	—		
3/8"	AM50-024	5.75	AM51-024	6.45	AM52-024	7.15	AM58-024	11.00	AM53-024	12.30	—	—		
25/64"	AM50-025	6.20	AM51-025	7.05	AM52-025	7.70	AM58-025	11.20	AM53-025	13.40	—	—		
13/32"	AM50-026	6.20	AM51-026	7.05	AM52-026	7.70	AM58-026	11.20	AM53-026	13.40	—	—		
27/64"	AM50-027	6.45	AM51-027	7.10	AM52-027	7.95	AM58-027	11.70	AM53-027	14.45	—	—		
7/16"	AM50-028	6.45	AM51-028	7.10	AM52-028	7.95	AM58-028	11.70	AM53-028	14.45	—	—		
29/64"	AM50-029	7.35	AM51-029	8.15	AM52-029	8.95	AM58-029	12.65	AM53-029	16.50	—	—		
15/32"	AM50-030	7.35	AM51-030	8.15	AM52-030	8.95	—	—	AM53-030	16.50	—	—		
31/64"	AM50-031	7.45	AM51-031	8.40	AM52-031	9.30	AM58-031	14.90	AM53-031	17.15	—	—		
1/2"	AM50-032	7.45	AM51-032	8.40	AM52-032	12.65	AM58-032	14.90	AM53-032	17.15	—	—		

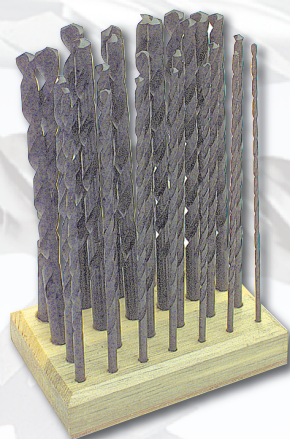
A

CT-407\*64

## Extra Long Straight Shank Drill Sets

High Speed Steel

- Supplied in drill stands
- 118° point
- 8", 12" & 18" OAL



WORLD CLASS EUROPEAN QUALITY



Description	OAL	No. of Drills	Order No.	Sale
1/8" thru 1/2" x 64ths	8"	25	AP50-XL20	\$ 89.50
1/8" thru 1/2" x 64ths	12"	25	AP50-XL25	132.50
3/16" thru 1/2" x 32nds	18"	11	AP50-SL21	121.00

B

CT-408\*64

## QC Wide Land Parabolic Flute Taper Length Drills



Q.C. Wide Land — High Speed Steel

- **135° Split Point**
- Effective in both deep and shallow hole drilling
- Self-centering positive rake point for faster penetration
- Unique flute form produces closer tolerances due to improved chip and coolant flow
- Bright finish provides excellent chip evacuation
- **Fractional Sizes — Style QC91P**



Size	Length	OAL	Order No.	Regular Price	Sale
1/16"	2"	3"	PT15-57904	\$5.50	\$4.25
3/32"	2 13/16"	4 1/4"	PT15-57906	6.65	5.15
1/8"	3 3/8"	5 1/8"	PT15-57908	8.30	6.45
5/32"	3 3/4"	5 3/8"	PT15-57910	10.25	7.90
3/16"	4 1/8"	5 3/4"	PT15-57912	10.25	7.90
7/32"	4 3/8"	6"	PT15-57914	14.55	11.20
1/4"	4 13/16"	6 1/8"	PT15-57916	11.80	9.15
9/32"	5"	6 1/4"	PT15-57918	14.55	11.20
5/16"	5 1/8"	6 3/8"	PT15-57920	14.55	11.20
11/32"	5 1/4"	6 1/2"	PT15-57922	16.90	13.05
3/8"	5 3/8"	6 3/4"	PT15-57924	19.95	15.40
13/32"	5 5/8"	7"	PT15-57926	20.80	16.10
7/16"	5 11/16"	7 1/4"	PT15-57928	22.85	17.60
15/32"	5 3/4"	7 1/2"	PT15-57930	26.95	20.75
1/2"	5 3/4"	7 3/4"	PT15-57932	28.15	21.75

C

CT-481\*64

Prices Effective January 1, 2006 Through March 31, 2006





## Deburring Tools Set B – Standard Deburring Kit



- For external or internal deburring
- Telescoping blade holder
- 1½" normal length - extends to 5" for deep reach

**Complete Set B Includes:**  
Handle, Telescoping Blade Holder  
and 1 each B10 and B20 Blade

**Order No. FN50-B**  
**Sale \$795**

**Complete Set B Includes:**  
Handle, Telescoping Blade Holder  
and 1 each B10 and B20 Blade

**Set B with Aluminum Handle**  
**Order No. FN50-BAL**  
**Sale \$995**

### Replacement Blades

Description	Order No.	1-99 Sale	100+ Sale
The basic HSS blade used for steel & aluminum with special nose for the worker's protection.	FN50-B10	\$1.15	\$0.95
Solid carbide blade similar to B10, for extra hard applications.	FN50-B10C	4.25	3.95
Same as B-10 blade with Ti-Coating for extended life when deburring exotic & abrasive materials.	FN50-B10P	1.60	1.40
The basic HSS blade used for plastics.	FN50-B12	1.15	0.95
This HSS blade is used for brass & cast iron-it can rotate clockwise & anti-clockwise.	FN50-B20	1.15	0.95
Solid carbide blade similar to B20, for extra hard applications.	FN50-B20C	4.25	3.95
Same as B20 blade with Ti-Coating for extended life when deburring exotic and abrasive materials.	FN50-B20P	1.60	1.40
B Holder	FN50-BHB	3.95	—

**Plastic Replacement Handle** **Aluminum Replacement Handle**  
**Order No. FN50-HA** **Order No. FN50-HAL**

**Sale \$320** **Sale \$595** HT-146\*64



## Set B – Mango

**The Workhorse** – Highly popular sets for deburring holes, slots & edges on metals and plastics. Each set comes with a B Holder that accepts all B blades. Blades can be inserted on the holder axis or perpendicular to holder. Recommendations: For maximum comfort, select the Mango Handle with Holder B or with Mango Adapter B when you need an extra close grip.

- Blades**  
B10  
FN50-B10  
B20  
FN50-B20



**B**



**Order No. FN50-BMAN**  
Regular Price \$12.95

**Sale \$995**

CT-464\*64



## Center Drills Plain Type 60°

- Right hand
- High speed steel

**KEO Quality**  
**Value Priced**



Size	Order No.	Sale
#1	AV41-10100	\$ 3.30
#2	AV41-10200	3.45
#3	AV41-10300	3.65
#4	AV41-10400	3.70
#4-½	AV41-14500	5.10
#5	AV41-10500	5.90
#6	AV41-10600	8.85
#7	AV41-10700	13.50
#8	AV41-10800	18.50
#9	AV41-10900	32.95
#10	AV41-11000	43.25

**5-Pc. Set #1-#5**

**Order No. AV41-10000**

**Sale \$2950**



CT-328\*64

## Chucking Reamer Sets

- High Speed Steel
- Straight Shank
- Straight Flute
- Supplied in a Metal Index



**The sizes you need most often for rush and emergency machining situations**



No. of Reamers	Size Range	Type	Order No.	Regular Price	Sale
14	.1230 - .4995	Dowel Pin	BD61-100	\$225.45	\$179.90
14	.1240 - .5010	Over & Under	BD61-110	225.20	179.90
29	1/16"-1/2" x 64ths	Fractional	BD61-150	437.05	349.00
25	1-13 mm x .5 mm	Metric	BD61-170	403.45	322.50
60	#1 - 60	Wire Gauge	BD61-160	654.10	520.00

**C** CT-189\*64

## TiN Coated 20-Pc. End Mill Set High Speed Steel

**Set Consists of one each:**  
2 flute and 4 flute single end –  
3/16, 1/4, 5/16, 3/8, 7/16, 1/2,  
5/16, 5/8, 1 1/16, and 3/4



**Order No. DB50-TC20E**  
Regular Price \$79.50

**Sale \$5950**

**B**



**TIN coating is ideal for abrasive and difficult to machine materials.**

CT-007\*64



## High Production Taps



- New and completely reengineered for improved performance – the **NEW “ShearTap”** offers exceptional value for high volume production tapping in carbon steels, high tensile steels and stainless steels up to 35 Rc hardness.
- Premium quality **High Vanadium Steel**, con-eccentric geometry and a new flute design combine for toughness, tremendous cutting edge strength, terrific wear resistance, fast chip removal and perfect quality threads.
- Reduced neck and shorter thread length allow for deeper hole tapping while enhancing coolant flow to the cutting teeth for extended tool life.
- Standard **Black Oxide Over Nitride** coating helps toughen the hard nitrided case. Black oxide also resists chip welding, increases lubricity and helps to retain cutting fluid.

**NEW Design**

### Spiral Point • Plug Style

Primarily designed for tapping through holes. The spiral point forces the chips ahead of the tap.



#### H3 Thread Limit

Size	No. of Flutes	Thread Length	Neck Length	OAL	Order No.	Regular Price	Sale
#4-40	2	0.313	0.250	1 7/8	MT35-34401	\$10.85	<b>\$ 9.20</b>
#6-32	2	0.375	0.313	2	MT35-34405	9.10	<b>7.70</b>
#8-32	3	0.375	0.375	2 1/8	MT35-34408	9.30	<b>7.90</b>
#10-24	3	0.500	0.375	2 3/8	MT35-34410	9.30	<b>7.90</b>
#10-32	3	0.500	0.375	2 3/8	MT35-34412	9.20	<b>7.80</b>
1/4-20	3	0.625	0.375	2 1/2	MT35-34417	10.25	<b>8.70</b>
1/4-28	3	0.625	0.375	2 1/2	MT35-34420	10.25	<b>8.70</b>
5/16-18	3	0.688	0.438	2 23/32	MT35-34422	11.25	<b>9.55</b>
5/16-24	3	0.688	0.438	3 23/32	MT35-34424	11.15	<b>9.45</b>
3/8-16	3	0.750	0.500	2	MT35-34426	12.55	<b>10.65</b>
3/8-24	3	0.750	0.500	2 19/16	MT35-34428	12.70	<b>10.75</b>
7/16-14	3	0.875	0.563	2 19/16	MT35-34430	16.05	<b>13.60</b>
7/16-20	3	0.875	0.563	3 3/32	MT35-34432	16.25	<b>13.80</b>
1/2-13	3	0.938	0.719	3 3/32	MT35-34434	18.75	<b>15.90</b>
1/2-20	3	0.938	0.719	3 3/8	MT35-34436	18.55	<b>15.75</b>
9/16-12	4	1.000	0.673	3 3/8	MT35-34438	30.30	<b>25.75</b>
9/16-18	4	1.000	0.673	3 19/32	MT35-34439	30.30	<b>25.75</b>
5/8-11	4	1.125	0.673	3 19/32	MT35-34440	33.30	<b>28.25</b>
5/8-18	4	1.125	0.673	3 19/16	MT35-34441	33.30	<b>28.25</b>
3/4-10	4	1.219	0.766	4 1/4	MT35-34444	47.75	<b>40.50</b>
3/4-16	4	1.219	0.766	4 1/4	MT35-34445	47.75	<b>40.50</b>

### Spiral Flute • Modified Bottoming Style

Primarily designed for tapping blind holes. The spiral flutes draw the chips out of the hole.



#### H3 Thread Limit

Size	No. of Flutes	Thread Length	Neck Length	OAL	Order No.	Regular Price	Sale
#4-40	3	0.236	0.327	1 7/8	MT35-34451	\$18.05	<b>\$15.30</b>
#6-32	3	0.236	0.452	2	MT35-34454	13.95	<b>11.85</b>
#8-32	3	0.236	0.514	2 1/8	MT35-34457	13.95	<b>11.85</b>
#10-24	3	0.354	0.521	2 3/8	MT35-34460	13.80	<b>11.70</b>
#10-32	3	0.354	0.521	2 3/8	MT35-34462	13.95	<b>11.85</b>
1/4-20	3	0.433	0.567	2 1/2	MT35-34466	15.30	<b>13.00</b>
1/4-28	3	0.433	0.567	2 1/2	MT35-34468	15.50	<b>13.15</b>
5/16-18	3	0.472	0.653	2 23/32	MT35-34470	17.20	<b>14.60</b>
5/16-24	3	0.472	0.653	2 23/32	MT35-34472	17.40	<b>14.75</b>
3/8-16	3	0.551	0.699	2 19/16	MT35-34474	18.85	<b>16.00</b>
3/8-24	3	0.551	0.699	2 19/16	MT35-34476	19.10	<b>16.20</b>
7/16-14	3	0.591	0.847	3 3/32	MT35-34478	24.40	<b>20.70</b>
7/16-20	3	0.591	0.847	3 3/32	MT35-34480	24.40	<b>20.70</b>
1/2-13	3	0.630	1.026	3 3/8	MT35-34482	28.25	<b>24.00</b>
1/2-20	3	0.630	1.026	3 3/8	MT35-34484	28.60	<b>24.30</b>
9/16-12	3	0.690	0.983	3 19/32	MT35-34486	43.50	<b>36.95</b>
9/16-18	3	0.690	0.983	3 19/32	MT35-34487	43.50	<b>36.95</b>
5/8-11	3	0.745	1.052	3 19/16	MT35-34488	50.95	<b>43.30</b>
5/8-18	3	0.745	1.052	3 19/16	MT35-34489	50.95	<b>43.30</b>
3/4-10	4	0.820	1.165	4 1/4	MT35-34492	63.45	<b>53.90</b>
3/4-16	4	0.820	1.165	4 1/4	MT35-34493	63.45	<b>53.90</b>

**B**

CT-281\*64

## Starrett® T-Handle Tap Wrenches

- For holding taps, drills, reamers, and other small tools to be turned by hand
- Has a sliding handle which is frictionally held. This feature permits the handle to be removed entirely or positioned so that leverage can be applied when working in close quarters



Tap Size	Length	Order No.	Regular Price	Sale
1/16" - 3/16"	2"	MV70-50427	\$23.50	<b>\$19.95</b>
7/32" - 7/16"	2 1/2"	MV70-50428	25.50	<b>21.65</b>
1/4" - 1/2"	3 1/2"	MV70-50429	32.00	<b>27.20</b>

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CT-172\*64

## Combination Drill & Taps High Speed Steel



- Drills and taps in a single pass
- Point is self-centering and eliminates the need for center drilling or center punching



Tap		Drill		Order No.	Regular Price	Sale
Size	Thread Length	Size	Flute Length			
4-40	3/8"	.0890	1/4"	ER59-90440	\$11.70	<b>\$ 9.40</b>
6-32	7/16"	.1095	5/16"	ER59-90632	11.70	<b>9.40</b>
8-32	1/2"	.1360	3/8"	ER59-90832	11.70	<b>9.40</b>
10-24	5/8"	.1520	13/32"	ER59-91024	11.80	<b>9.40</b>
10-32	5/8"	.1610	13/32"	ER59-91032	11.80	<b>9.40</b>
1/4-20	25/32"	.2010	17/32"	ER59-420	12.40	<b>9.90</b>
5/16-18	15/16"	.2570	1 1/16"	ER59-518	16.40	<b>13.20</b>
3/8-16	1 1/16"	.3125	1 3/16"	ER59-616	20.05	<b>16.90</b>
1/2-13	1 3/8"	.4250	1 1/8"	ER59-813	28.30	<b>22.70</b>

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Prices Effective January 1, 2006 Through March 31, 2006

