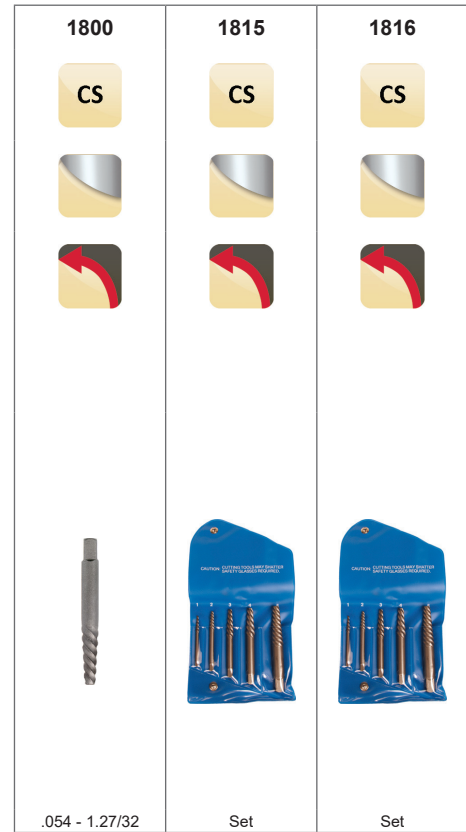


## SCREW EXTRACTOR

- 1800** Screw Extractor
- 1815** Screw Extractor Set, 5 piece
- 1816** Screw Extractor Set, 6 piece



Nr.	d <sub>1</sub> Ø Inch	Sizes in Set	d <sub>2</sub> Ø Inch	Pieces per Set	l <sub>1</sub> Inch	Capacity For		Pack Qty	1800	1815set	1816set
						Screws & Bolts	Pipe Sizes				
801	0.0540		5/32		2"	3/16 - 1/4		12	3210001	—	—
802	0.0860		3/16		2.3/8	1/4 - 5/16		12	3210002	—	—
803	1/8		1/4		2.3/4	5/16 - 7/16		12	3210003	—	—
804	11/64		5/16		3"	7/16 - 9/16		6	3210004	—	—
805	1/4		7/16		3.3/8	9/16 - 3/4	1/8 - 1/4	6	3210005	—	—
806	3/8		5/8		3.3/4	3/4 - 1"	3/8	1	3210006	—	—
807	31/64		3/4		4.1/8	1 - 1.3/8	1/2	1	3210007	—	—
808	47/64		1"		4.3/8	1.3/8 - 1.3/4	3/4	1	3210008	—	—
809	31/32		1.1/4		4.5/8	1.3/4 - 2.1/8	1	1	3210009	—	—
810	1.7/32		1.17/32		5"	2.1/8 - 2.1/2	1.1/4	1	3210010	—	—
811	1.15/32		1.27/32		5.5/8	2.1/2 - 3	1.1/2	1	3210011	—	—
812	1.27/32		2.9/32		6.1/4	3 - 3.1/2	2	1	3210012	—	—
1815		801 - 805		5		3/16 - 3/4	1/8 - 1/4	1	—	3210013	—
1816		801 - 806		6		3/16 - 1	1/8 - 3/8	1	—	—	3210014

**DRILLING & TAPPING FLUID**

**1900 Drilling & Tapping Fluid** - A heavy oil for drilling & tapping all ferrous and non-ferrous materials. Increases productivity and extends tool life. Environmentally safe.

**Wax Stick** - Multi-purpose wax that sticks to the tool and effectively removes heat while adding lubrication. Withstands tremendous pressure. Can be used in lieu of drilling/tapping fluids and cutting oils.

**Foam** - Heavy duty aerosol foam coats the tools as it foams on contact. Will not contaminate existing coolant.

**Light Tapping Fluid** - A light viscosity heavy duty drilling & tapping fluid for reducing torque. Ideal for use with a re-circulation system. Can be added to existing cutting oils to increase lubricity. Will not contaminate existing coolant as it will float to the surface for easy skimming.



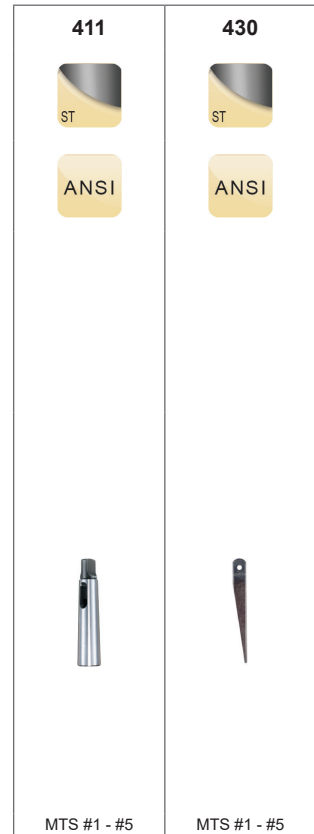
Sizes	Style	Description	Pack Qty	1900
1/2 oz	Trial Size	Drilling & Tapping Fluid	1	1910512
4 oz	Squirt Bottle	Drilling & Tapping Fluid	24	1910501
16 oz	Squirt Bottle	Drilling & Tapping Fluid	12	1910502
1 gal	Bottle	Drilling & Tapping Fluid	4	1910503
5 gal	Dispenser	Drilling & Tapping Fluid	1	1910506
5 gal	Pail	Drilling & Tapping Fluid	1	1910504
55 gal	Drum	Drilling & Tapping Fluid	1	1910505
1 lb	Stick	Wax	24	1950501
20 oz	Aerosal Can	Foam	12	1910509
1 gal	Bottle	Light Drilling & Tapping Fluid	4	1930503
16 oz	Squirt Bottle	Light Drilling & Tapping Fluid	12	1930502
16 oz	Squirt Bottle	Light Tapping Fluid (single)	1	46437347
16 oz	Squirt Bottle	Drilling & Tapping Fluid (single)	1	46437348
20 oz	Aerosal Can	Foam (single)	1	46437349
1 lb	Stick	Wax (single)	1	46437430

# MISCELLANEOUS

## SLEEVES & KEYS

**411** Taper shank (internal and external) adapters. Heat treated and externally ground. Steam oxide surface finish prevents corrosion.

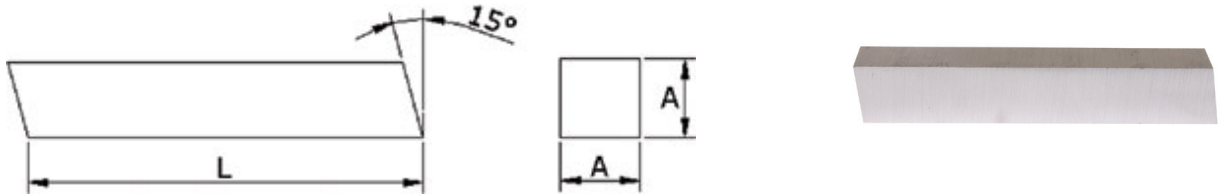
**430** Drill Drift. Dropped forged steel keys used for removing taper shank tools from adapting sleeves and machine spindles.



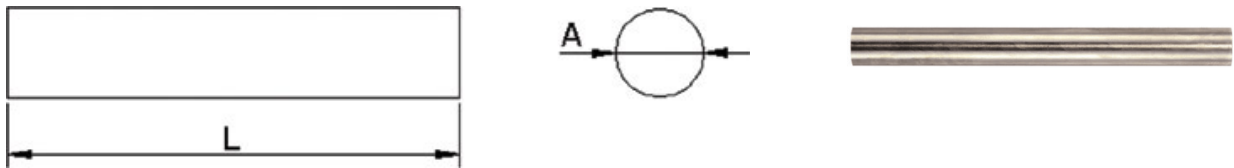
430 MTS #	411 Inside Taper	411 Outside Taper	Length	Pack Qty	411	430
1			4.1/2	1	—	3210338
2			5.1/2	1	—	3210339
3			7	1	—	3210340
4			8	1	—	3210341
5			9.7/8	1	—	3210342
	1	2	3.1/2	1	3210046	—
	1	3	3.15/16	1	3210047	—
	1	4	4.13/16	1	3210048	—
	2	3	4.3/8	1	3210050	—
	2	4	4.13/16	1	3210051	—
	3	4	5.5/16	1	3210053	—
	3	5	6.1/16	1	3210054	—
	4	5	6.1/2	1	3210055	—
	5	6	8.1/2	1	3210057	—

## TOOL BIT BLANKS

**K520** Cobalt ground blank with 15° beveled ends



**K521** Cobalt round blank



Sizes	Overall Length	K520
4	100	0160732
5	160	0160749
6	100	0110478
6	160	0110485
6	200	0110492
8	100	0110546
8	160	0110553
8	200	0110560
10	100	0110171
10	160	0110195
10	200	0110201
12	100	0110225
12	160	0110249
12	200	0110256
14	160	0110294
14	200	0110300
16	100	0110317
16	160	0110324
16	200	0110331
20	160	0110379
20	200	0110386
25	200	0110409
3/16	2.1/2	0254721
1/4	2.1/2	0254684
1/4	4"	0197943
5/16	2.1/2	0254790
5/16	3"	0254806
5/16	4"	0197950
3/8	3"	0254769
3/8	4"	0197967
3/8	6"	0254776
7/16	3.1/2	0340691
1/2	4"	0197974
1/2	6"	0197981
5/8	4.1/2	0197998
5/8	6"	0254820

Sizes	Overall Length	K521
4	100	0110799
6	160	0110805
8	100	0164884
8	200	0110843
10	100	0110850
10	200	0110881
12	100	0110904
12	160	0110911
12	200	0110607
14	200	0110638
15	100	0110645
16	160	0110669
18	160	0164914
1/4	4"	0110720
1/2	6"	0110782