

DRILL BITS

JOBBER'S LENGTH J&B MAGNUM PREMIUM 135° Split Point



- 135° split point for fast penetration and accurate starting without a center punch.
- **Holds tighter hole size.** The split point design is self centering. This limits the normal oversize drilling characteristics.
- The flatter point takes a smaller chip. More torque is directed to a smaller area. This allows drilling into materials with hardness of over 30 on the Rockwell "C" scale.
- Special **HI-MOLYBDENUM** drills are heat treated at 2185 F and then nitro-carburize finished at 950 F to be measurably **HARDER THAN HIGH-SPEED STEEL.**
- Recommended for use in work hardening grades of stainless steel and other hard metal drilling applications. **FLATS ON SHANK.**
- Body and clearance are gold surface treated for **MAXIMUM LUBRICITY.**

PREVENTS . . .

CENTER
PUNCHING

DRILL
WALKING

FREQUENT
REPLACEMENT

FREQUENT
RESHARPENING

| J&B # | DRILL DIA. | DECIMAL EQUIV. INCHES | OVERALL LENGTH |
|-------|------------|-----------------------|----------------|
| 22388 | 1/16 | .0625 | 1-7/8 |
| 22389 | 5/64 | .0781 | 2 |
| 22390 | 3/32 | .0938 | 2-1/4 |
| 22391 | 7/64 | .1094 | 2-5/8 |
| 22392 | 1/8 | .1250 | 2-3/4 |
| 22393 | 9/64 | .1406 | 2-7/8 |
| 22394 | 5/32 | .1562 | 3-1/8 |
| 22395 | 11/64 | .1719 | 3-1/4 |
| 22396 | 3/16 | .1875 | 3-1/2 |
| 22397 | 13/64 | .2031 | 3-5/8 |
| 22398 | 7/32 | .2188 | 3-3/4 |
| 22399 | 15/64 | .2344 | 3-7/8 |
| 22400 | 1/4 | .2500 | 4 |
| 22401 | 17/64 | .2656 | 4-1/8 |
| 22402 | 9/32 | .2812 | 4-1/4 |

| J&B # | DRILL DIA. | DECIMAL EQUIV. INCHES | OVERALL LENGTH |
|-------|------------|-----------------------|----------------|
| 22403 | 19/64 | .2969 | 4-3/8 |
| 22442 | 5/16 | .3125 | 4-1/2 |
| 22443 | 21/64 | .3281 | 4-5/8 |
| 22444 | 11/32 | .3438 | 4-3/4 |
| 22445 | 23/64 | .3594 | 4-7/8 |
| 22446 | 3/8 | .3750 | 5 |
| 22447 | 25/64 | .3906 | 5-1/8 |
| 22448 | 13/32 | .4062 | 5-1/4 |
| 22449 | 27/64 | .4219 | 5-3/8 |
| 22450 | 7/16 | .4375 | 5-1/2 |
| 22451 | 29/64 | .4531 | 5-5/8 |
| 22452 | 15/32 | .4688 | 5-3/4 |
| 22453 | 31/64 | .4844 | 5-7/8 |
| 22454 | 1/2 | .5000 | 6 |

DRILL BITS

MECHANIC'S LENGTH MAGNUM PREMIUM 135° Split Point



- Special **HI-MOLYBDENUM** tool steel is heat treated at 2185°F and then nitro-carburize finished at 950°F to be measurably **HARDER THAN HIGH SPEED STEEL**.
- 135° split point for fast penetration and **ACCURATE STARTING** without center punch.
- Body and clearance are gold surface treated for **MAXIMUM LUBRICITY**.
- **FLATS ON SHANK** give positive chuck-grip and virtually eliminate drill/chuck slippage.
- Recommended for use in work hardening grades of stainless steel and other hard metal drill applications.
- **MECHANICS LENGTH:** The shorter overall length and reduced flute length results in a stronger more rigid drill with greater breakage resistance.

A MAGNUM DRILL WITH IT'S THIN WEB WILL PENETRATE THE WORK HARDENING STAINLESS FAST ENOUGH TO CONTINUALLY CUT BENEATH THE CHIP WHICH IS HARDENING FROM DEFORMATION. THIS MEANS THE DRILL IS CUTTING SOFTER STEEL.



THE COBALT DRILL, WITH IT'S THICKER WEB, CANNOT BE FED AT A FAST ENOUGH RATE TO CUT BENEATH THE AREA WHICH IS HARDENING. AS A RESULT THE COBALT DRILL IS CONTINUALLY DRILLING INTO HARDENED STEEL.

| J&B # | DRILL DIA. | DECIMAL EQUIV. INCHES | OVERALL LENGTH |
|-------|------------|-----------------------|----------------|
| 40720 | 1/16 | .0625 | 1-7/8 |
| 40721 | 5/64 | .0781 | 2 |
| 40722 | 3/32 | .0938 | 2-1/4 |
| 40723 | 7/64 | .1094 | 2-3/8 |
| 40724 | 1/8 | .1250 | 2-1/2 |
| 40725 | 9/64 | .1406 | 2-5/8 |
| 40726 | 5/32 | .1562 | 2-3/4 |
| 40727 | 11/64 | .1719 | 2-7/8 |
| 40728 | 3/16 | .1875 | 3 |
| 40729 | 13/64 | .2031 | 3-1/8 |
| 40730 | 7/32 | .2188 | 3-1/4 |
| 40731 | 15/64 | .2344 | 3-3/8 |
| 40732 | 1/4 | .2500 | 3-1/2 |
| 40733 | 17/64 | .2656 | 3-5/8 |
| 40734 | 9/32 | .2812 | 3-3/4 |

| J&B # | DRILL DIA. | DECIMAL EQUIV. INCHES | OVERALL LENGTH |
|-------|------------|-----------------------|----------------|
| 40735 | 19/64 | .2969 | 3-7/8 |
| 40736 | 5/16 | .3125 | 4 |
| 40737 | 21/64 | .3281 | 4-1/16 |
| 40738 | 11/32 | .3438 | 4-1/8 |
| 40739 | 23/64 | .3594 | 4-3/16 |
| 40740 | 3/8 | .3750 | 4-1/4 |
| 40741 | 25/64 | .3906 | 4-5/16 |
| 40742 | 13/32 | .4062 | 4-3/8 |
| 40743 | 27/64 | .4219 | 4-7/16 |
| 40744 | 7/16 | .4375 | 4-1/2 |
| 40745 | 29/64 | .4531 | 4-5/8 |
| 40746 | 15/32 | .4688 | 4-3/4 |
| 40747 | 31/64 | .4844 | 4-7/8 |
| 40748 | 1/2 | .5000 | 5 |



J&B # 40770 1/2" Magnum, 3/8" Shank, 6" OAL

DRILL BITS

J&B HIGH SPEED COBALT Heavy Duty 135° Split Point, Gold Finish



- For use in drilling hard tough metals, free machining stainless steel, high temperature alloys, titanium and certain plastics.
- High red hardness of cobalt steel permits speeds **30%** higher than regular high speed steel drills.

THE HIGH CONTENT OF COBALT GIVES THE DRILL:

- HIGH ABRASION RESISTANCE
- HIGH PERFORMANCE ON STAINLESS STEEL
- HIGH RESISTANCE TO HIGH TEMPERATURES
- HIGH DRILLING CAPACITY TO HEAT-TREATED STEEL

| J&B # | DRILL DIA. | DECIMAL EQUIV. INCHES | OVERALL LENGTH |
|-------|------------|-----------------------|----------------|
| 22764 | 3/64 | .0469 | 1-3/4 |
| 22765 | 1/16 | .0625 | 1-7/8 |
| 22766 | 5/64 | .0781 | 2 |
| 22767 | 3/32 | .0938 | 2-1/4 |
| 22768 | 7/64 | .1094 | 2-5/8 |
| 22769 | 1/8 | .1250 | 2-3/4 |
| 22770 | 9/64 | .1406 | 2-7/8 |
| 22771 | 5/32 | .1562 | 3-1/8 |
| 22772 | 11/64 | .1719 | 3-1/4 |
| 22773 | 3/16 | .1875 | 3-1/2 |
| 22774 | 13/64 | .2031 | 3-5/8 |
| 22775 | 7/32 | .2188 | 3-3/4 |
| 22776 | 15/64 | .2344 | 3-7/8 |
| 22777 | 1/4 | .2500 | 4 |
| 22778 | 17/64 | .2656 | 4-1/8 |
| 22779 | 9/32 | .2812 | 4-1/4 |

| J&B # | DRILL DIA. | DECIMAL EQUIV. INCHES | OVERALL LENGTH |
|-------|------------|-----------------------|----------------|
| 22780 | 19/64 | .2969 | 4-3/8 |
| 22781 | 5/16 | .3125 | 4-1/2 |
| 22782 | 21/64 | .3281 | 4-5/8 |
| 22783 | 11/32 | .3438 | 4-3/4 |
| 22784 | 23/64 | .3594 | 4-7/8 |
| 22785 | 3/8 | .3750 | 5 |
| 22786 | 25/64 | .3906 | 5-1/8 |
| 22787 | 13/32 | .4062 | 5-1/4 |
| 22788 | 27/64 | .4219 | 5-3/8 |
| 22789 | 7/16 | .4375 | 5-1/2 |
| 22790 | 29/64 | .4531 | 5-5/8 |
| 22791 | 15/32 | .4688 | 5-3/4 |
| 22792 | 31/64 | .4844 | 5-7/8 |
| 22793 | 1/2 | .5000 | 6 |

DRILL BITS

SILVER AND DEMING MAGNUM PREMIUM

1/2" SHANK



- Special **HI-MOLYBDENUM** tool steel is heat treated at 2185°F and then nitro-carburize finished at 950°F to be measurably **HARDER THAN HIGH SPEED STEEL**.
- 135° split point for fast penetration and **ACCURATE STARTING** without center punch. (sizes larger than 3/4" have 118° split point)
- Body and clearance are gold surface treated for **MAXIMUM LUBRICITY**.
- **FLATS ON SHANK** give positive chuck-grip and virtually eliminate drill/chuck slippage.
- Recommended for use in work hardening grades of stainless steel and other hard metal drill applications.

| J&B # | DRILL DIA. | OVERALL LENGTH |
|-------|------------|----------------|
| 41439 | 33/64 | 6" |
| 41440 | 17/32 | 6" |
| 41441 | 35/64 | 6" |
| 41442 | 9/16 | 6" |
| 41443 | 37/64 | 6" |
| 41444 | 19/32 | 6" |
| 41447 | 39/64 | 6" |
| 41446 | 5/8 | 6" |
| 41449 | 41/64 | 6" |
| 41448 | 21/32 | 6" |
| 41437 | 43/64 | 6" |
| 41450 | 11/16 | 6" |
| 41438 | 45/64 | 6" |
| 41451 | 23/32 | 6" |
| 41452 | 47/64 | 6" |
| 41454 | 3/4 | 6" |

| J&B # | DRILL DIA. | OVERALL LENGTH |
|-------|------------|----------------|
| 41453 | 49/64 | 6" |
| 41455 | 25/32 | 6" |
| 41456 | 51/64 | 6" |
| 41457 | 13/16 | 6" |
| 41458 | 53/64 | 6" |
| 41459 | 27/32 | 6" |
| 41461 | 7/8 | 6" |
| 41462 | 29/32 | 6" |
| 41465 | 15/16 | 6" |
| 41469 | 1" | 6" |
| 41470 | 1-1/32 | 6" |
| 41471 | 1-1/16 | 6" |
| 41474 | 1-1/8 | 6" |
| 41472 | 1-3/16 | 6" |
| 41473 | 1-1/4 | 6" |

* Individually packaged in plastic tubes

S & D MAGNUM PREMIUM SET

- INCLUDES 1 EACH OF S & D SIZES:
9/16, 5/8, 11/16, 3/4,
13/16, 7/8, 15/16, 1"
- **SHIPPED IN AN 8 PIECE CASE**

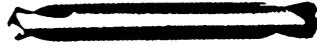
| J&B # | TYPE |
|-------|--------|
| 41480 | MAGNUM |



DRILL BITS

STUBBY TWIN END DRILLS

Heavy Duty 135° Split Point



- This twin end drill has wide applications in drilling any thin sheet metal or wood.
- Especially productive for automotive body shops.

| J&B # | DIAMETER | OVERALL LENGTH | LENGTH OF TWIST |
|-------|----------|----------------|-----------------|
| 22534 | 1/8 | 1-7/8 | 7/8 |
| 22535 | 5/32 | 2-1/16 | 1 |
| 22536 | 3/16 | 2-3/16 | 1-1/8 |
| 22537 | 7/32 | 2-3/8 | 1-1/4 |
| 22538 | 1/4 | 2-1/2 | 1-3/8 |

WELDOUT SPOTWELD DRILL BIT

Spur Point

- This rugged high performance bit is designed to effectively cut auto body panel spot welds.
- Eliminates pilot hole. 135 degree self-centered split point.
- Performs best at low RPM. Cuts extremely fast.



| J&B # | DIAMETER | APPROX SPOTWELD SIZE, INCHES | OVERALL LENGTH INCHES | TYPE | QTY |
|----------|----------|------------------------------|-----------------------|---------------------|-----|
| V28148 | 8.0 | 5/16 | 2.25 | Type 187 Cobalt | EA |
| IES12085 | 8.0 | 5/16 | 2.875 | M7 High Speed Steel | EA |
| V28149 | 10.00 | 3/8 | 2.25 | Type 187 Cobalt | EA |
| IES12090 | 10.00 | 3/8 | 3.25 | M7 High Speed Steel | EA |

DRILL BITS

LETTER SIZES MAGNUM PREMIUM



- 135° split point for fast penetration and accurate starting without a center punch.
- Special **HI-MOLYBDENUM** drills are heat treated at 2185 F and then nitro-carburize finished at 950 F to be measurably **HARDER THAN HIGH-SPEED STEEL**.
- Recommended for use in work hardening grades of stainless steel and other hard metal drilling applications.
- Body and clearance are gold surface treated for **MAXIMUM LUBRICITY**.

| J&B # | SIZE | FLUTE LENGTH | OVERALL LENGTH |
|-------|------|--------------|----------------|
| 23119 | A | 2-5/8 | 3-7/8 |
| 23120 | B | 2-3/4 | 4 |
| 23121 | C | 2-3/4 | 4 |
| 23122 | D | 2-3/4 | 4 |
| 23123 | E | 2-3/4 | 4 |
| 23124 | F | 2-7/8 | 4-1/8 |
| 23125 | G | 2-7/8 | 4-1/8 |
| 23126 | H | 2-7/8 | 4-1/8 |
| 23127 | I | 2-7/8 | 4-1/8 |
| 23128 | J | 2-7/8 | 4-1/8 |
| 23129 | K | 2-15/16 | 4-1/4 |
| 23130 | L | 2-15/16 | 4-1/4 |
| 23131 | M | 3-1/16 | 4-3/8 |
| 23132 | N | 3-1/16 | 4-3/8 |
| 23133 | O | 3-3/16 | 4-1/2 |
| 23134 | P | 3-5/16 | 4-5/8 |
| 23135 | Q | 3-7/16 | 4-3/4 |
| 23136 | R | 3-7/16 | 4-3/4 |
| 23137 | S | 3-1/2 | 4-7/8 |
| 23138 | T | 3-1/2 | 4-7/8 |
| 23139 | U | 3-5/8 | 5 |
| 23140 | V | 3-5/8 | 5 |
| 23141 | W | 3-3/4 | 5-1/8 |
| 23142 | X | 3-3/4 | 5-1/8 |
| 23143 | Y | 3-7/8 | 5-1/4 |
| 23144 | Z | 3-7/8 | 5-1/4 |

DRILL BITS

WIRE GAUGE SIZES MAGNUM PREMIUM



- 135° split point for fast penetration and accurate starting without a center punch.
- Special **HI-MOLYBDENUM** drills are heat treated at 2185 F and then nitro-carburize finished at 950 F to be measurably **HARDER THAN HIGH-SPEED STEEL**.
- Recommended for use in work hardening grades of stainless steel and other hard metal drilling applications.
- Body and clearance are gold surface treated for **MAXIMUM LUBRICITY**.

| J&B # | SIZE | FLUTE LENGTH | OVERALL LENGTH |
|-------|------|--------------|----------------|
| 23059 | 1 | 2-5/8 | 3-7/8 |
| 23060 | 2 | 2-5/8 | 3-7/8 |
| 23061 | 3 | 2-1/2 | 3-3/4 |
| 23062 | 4 | 2-1/2 | 3-3/4 |
| 23063 | 5 | 2-1/2 | 3-3/4 |
| 23064 | 6 | 2-1/2 | 3-3/4 |
| 23065 | 7 | 2-7/16 | 3-5/8 |
| 23066 | 8 | 2-7/16 | 3-5/8 |
| 23067 | 9 | 2-7/16 | 3-5/8 |
| 23068 | 10 | 2-7/16 | 3-5/8 |
| 23069 | 11 | 2-5/16 | 3-1/2 |
| 23070 | 12 | 2-5/16 | 3-1/2 |
| 23071 | 13 | 2-5/16 | 3-1/2 |
| 23072 | 14 | 2-3/16 | 3-3/8 |
| 23073 | 15 | 2-3/16 | 3-3/8 |
| 23074 | 16 | 2-3/16 | 3-3/8 |
| 23075 | 17 | 2-3/16 | 3-3/8 |
| 23076 | 18 | 2-1/8 | 3-1/4 |
| 23077 | 19 | 2-1/8 | 3-1/4 |
| 23078 | 20 | 2-1/8 | 3-1/4 |
| 23079 | 21 | 2-1/8 | 3-1/4 |
| 23080 | 22 | 2 | 3-1/8 |
| 23081 | 23 | 2 | 3-1/8 |
| 23082 | 24 | 2 | 3-1/8 |
| 23083 | 25 | 1-7/8 | 3 |
| 23084 | 26 | 1-7/8 | 3 |
| 23085 | 27 | 1-7/8 | 3 |
| 23086 | 28 | 1-3/4 | 2-7/8 |
| 23087 | 29 | 1-3/4 | 2-7/8 |
| 23088 | 30 | 1-5/8 | 2-3/4 |

| J&B # | SIZE | FLUTE LENGTH | OVERALL LENGTH |
|--------|------|--------------|----------------|
| 23089 | 31 | 1-5/8 | 2-3/4 |
| 23090 | 32 | 1-5/8 | 2-3/4 |
| 23091 | 33 | 1-1/2 | 2-5/8 |
| 23092 | 34 | 1-1/2 | 2-5/8 |
| 23093 | 35 | 1-1/2 | 2-5/8 |
| 23094 | 36 | 1-7/16 | 2-1/2 |
| 23095 | 37 | 1-7/16 | 2-1/2 |
| 23096 | 38 | 1-7/16 | 2-1/2 |
| 23097 | 39 | 1-3/8 | 2-3/8 |
| 23098 | 40 | 1-3/8 | 2-3/8 |
| 23099 | 41 | 1-3/8 | 2-3/8 |
| 23100 | 42 | 1-1/4 | 2-1/4 |
| 23101 | 43 | 1-1/4 | 2-1/4 |
| 23102 | 44 | 1-1/8 | 2-1/8 |
| 23103 | 45 | 1-1/8 | 2-1/8 |
| 23104 | 46 | 1-1/8 | 2-1/8 |
| 23105 | 47 | 1 | 2 |
| 23106 | 48 | 1 | 2 |
| 23107 | 49 | 1 | 2 |
| 23108 | 50 | 1 | 2 |
| 23109 | 51 | 1 | 2 |
| 23110 | 52 | 7/8 | 1-7/8 |
| *23111 | 53 | 7/8 | 1-7/8 |
| *23112 | 54 | 7/8 | 1-7/8 |
| *23113 | 55 | 7/8 | 1-7/8 |
| *23114 | 56 | 3/4 | 1-3/4 |
| *23115 | 57 | 3/4 | 1-3/4 |
| *23116 | 58 | 11/16 | 1-5/8 |
| *23117 | 59 | 11/16 | 1-5/8 |
| *23118 | 60 | 11/16 | 1-5/8 |

DRILL BITS

METRIC MAGNUM PREMIUM Jobbers length - 135° Split Point



- **135°** split point for fast penetration and accurate starting without a center punch.
- Special **HI-MOLYBDENUM** drills are heat treated at 2185 F and then nitro-carburize finished at 950 F to be measurably **HARDER THAN HIGH-SPEED STEEL**.
- Recommended for use in work hardening grades of stainless steel and other hard metal drilling applications
- Body and clearance are gold surface treated for **MAXIMUM LUBRICITY**.

PREVENTS . . .

CENTER
PUNCHING

DRILL
WALKING

FREQUENT
REPLACEMENT

FREQUENT
RESHARPENING



| J&B # | DRILL DIA. | BOLT DIA. SIZE | OVERALL LENGTH |
|-------|------------|----------------|----------------|
| 57210 | 1.60 | 2-.40 | 1-7/8 |
| 57215 | 2.50 | 3-.50 | 2-23/64 |
| 57220 | 3.30 | 4-.70 | 2-7/8 |
| 57225 | 4.20 | 5-.80 | 3-1/4 |
| 57230 | 5.00 | 6-1.00 | 3-5/8 |
| 57235 | 6.00 | 7-1.00 | 4 |
| 57240 | 6.80 | 8-1.25 | 4-1/8 |
| 57242 | 7.80 | 9-1.25 | 4-1/2 |
| 57243 | 8.00 | | 4-1/2 |
| 57245 | 8.60 | 10-1.50 | 4-3/4 |
| 57247 | 9.60 | 11-1.50 | 5-1/8 |
| 57250 | 10.50 | 12-1.75 | 5-15/64 |
| 57252 | 12.00 | 14-2.00 | 5-7/8 |

DRILL BITS

CARBIDE MASONRY DRILLS

Slow Spiral - Heavy Duty



- Carbide tipped, hardened steel bodies.
- The fastest, easiest way to drill holes in brick, tile, cement, asbestos, marble, concrete.
- No special equipment needed. Use them in any regular electric drill.
- Ideal for expansion bolt installation, installation of plumbing, heating, or air conditioning equipment, anchoring partitions, setting tile and wiring buildings.

| J&B # | DIAMETER | OVERALL LENGTH | SHANK DIAMETER |
|-------|----------|----------------|----------------|
| 22506 | 1/8 | 3" | 1/8 |
| 22505 | 5/32 | 3" | 5/32 |
| 22507 | 3/16 | 4" | 3/16 |
| 22508 | 1/4 | 4" | 1/4 |
| 22509 | 5/16 | 4" | 1/4 |
| 22510 | 3/8 | 4" | 5/16 |
| 22511 | 1/2 | 6" | 3/8 |
| 22512 | 5/8 | 6" | 3/8 |
| 22513 | 3/4 | 6" | 1/2 |
| 22515 | 7/8 | 6" | 1/2 |
| 22514 | 1 | 6" | 1/2 |

AIRCRAFT EXTENSION DRILLS



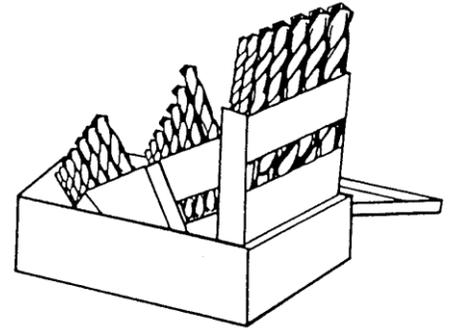
- This heavy duty 135° split point H.S.S. drill is used for drilling holes in hard to reach places.

| J&B # | DIAMETER | TOTAL LENGTH | FLUTE LENGTH |
|-------|----------|--------------|--------------|
| 40340 | 3/16 | 12" | 2-1/4 |
| 40342 | 1/4 | 12" | 2-1/2 |
| 39020 | 5/16 | 12" | 3-1/8 |
| 40344 | 3/8 | 12" | 3-3/4 |
| 40346 | 1/2 | 12" | 4-1/2 |

DRILL BIT SETS

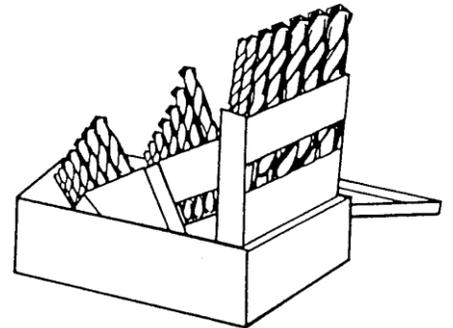
J&B HEAVY DUTY SPLIT POINT DRILLS

| J&B # | SIZE |
|-------|---------------------|
| 20580 | 1/16 - 1/4 BY 64THS |
| 22532 | 1/16 - 1/2 BY 32NDS |
| 22533 | 1/16 - 1/2 BY 64THS |



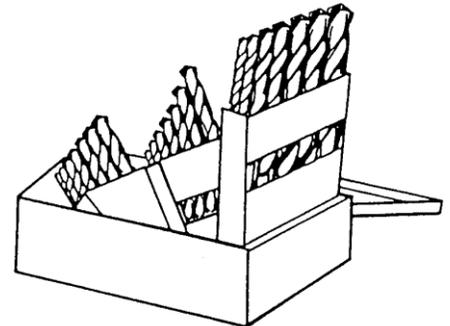
J&B MAGNUM PREMIUM DRILLS

| J&B # | SIZE |
|-------|---------------------|
| 40749 | 1/16 - 1/4 BY 64THS |
| 40750 | 1/16 - 1/2 BY 32NDS |
| 40751 | 1/16 - 1/2 BY 64THS |



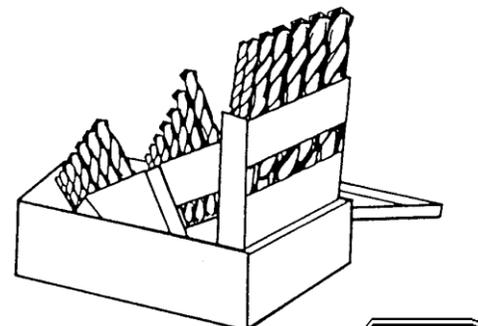
J&B HIGH SPEED COBALT DRILLS

| J&B # | SIZE |
|-------|---------------------|
| 22795 | 1/16 - 1/4 BY 64THS |
| 22796 | 1/16 - 1/2 BY 32NDS |
| 22797 | 1/16 - 1/2 BY 64THS |



STRAIGHT SHANK DRILLS

| J&B # | SIZE |
|-------|---------|
| 20578 | A - Z |
| 20579 | #1 - 60 |



DRILL BIT SETS

ULTRA-DEX DRILL SETS

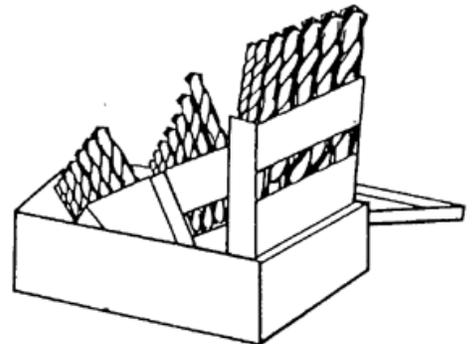
| J&B # | SIZE | TYPE |
|-------|---------------------|-----------------|
| 40767 | 1/16 – 1/2 BY 64THS | H/D SPLIT POINT |
| 40772 | 1/16 – 1/2 BY 32NDS | H/D SPLIT POINT |
| 40768 | 1/16 – 1/2 BY 64THS | COBALT |
| 40774 | 1/16 – 1/2 BY 32NDS | COBALT |
| 40769 | 1/16 – 1/2 BY 64THS | MAGNUM |
| 40773 | 1/16 – 1/2 BY 32NDS | MAGNUM |



- Weather – tight / waterproof - indestructable

8 PIECE STARTER SET

| J&B # | TYPE |
|-------|-----------------|
| 40754 | H/D SPLIT POINT |
| 40756 | COBALT |
| 40758 | MAGNUM |



- INCLUDES 1 EACH OF DRILL SIZES:
1/8, 3/16, 7/32, 1/4, 5/16, 3/8, 7/16, 1/2
- SHIPPED IN A 29 PIECE CASE

29 PIECE STARTER SET

| J&B # | TYPE |
|-------|-----------------|
| 40762 | H/D SPLIT POINT |
| 40764 | COBALT |
| 40766 | MAGNUM |



- INCLUDES 4 EACH OF DRILL SIZES:
1/16, 3/32, 1/8, 5/32
- INCLUDES 3 EACH OF DRILL SIZES:
3/16, 7/32, 1/4
- INCLUDES 1 EACH OF DRILL SIZES:
9/32, 5/16, 3/8, 1/2

- SHIPPED IN A 3 DRAWER H/D DRILL CASE
(J&B #38690)

EMPTY DRILL INDEX BOXES

(SEE PAGE 2009)

CUTTING TOOLS

CARBIDE BURS

- Solid carbide burs are manufactured in the USA from high performance, Industrial grade carbide.
- Different shapes give access to hard-to-reach areas.



57016



57001, 57002, 57003



57004, 57005



57015



57018



57014



57017



57006, 57007, 57008



57009, 57010



57011, 57012



57013

| J&B # | IND # | SHAPE | CUT | DIA. | LOF | SHANK | QTY |
|-------|---------|--------------------|-------------|------|------|-------|-----|
| 57001 | SC-3 | CYLINDRICAL RADIUS | SINGLE | 3/8 | 3/4 | 1/4 | EA |
| 57002 | SC-5 | CYLINDRICAL RADIUS | SINGLE | 1/2 | 1" | 1/4 | EA |
| 57003 | SC-7 | CYLINDRICAL RADIUS | SINGLE | 3/4 | 1" | 1/4 | EA |
| 57004 | SF-3 | ROUND TREE | SINGLE | 3/8 | 3/4 | 1/4 | EA |
| 57005 | SF-5 | ROUND TREE | SINGLE | 1/2 | 1" | 1/4 | EA |
| 57006 | SC-3/FM | CYLINDRICAL RADIUS | ALUMINUM | 3/8 | 3/4 | 1/4 | EA |
| 57007 | SC-5/FM | CYLINDRICAL RADIUS | ALUMINUM | 1/2 | 1" | 1/4 | EA |
| 57008 | SC-7/FM | CYLINDRICAL RADIUS | ALUMINUM | 3/4 | 1" | 1/4 | EA |
| 57009 | SD-3/FM | BALL | ALUMINUM | 3/8 | 3/8 | 1/4 | EA |
| 57010 | SD-5/FM | BALL | ALUMINUM | 1/2 | 1/2 | 1/4 | EA |
| 57011 | SF-3/FM | ROUND TREE | ALUMINUM | 3/8 | 3/4 | 1/4 | EA |
| 57012 | SF-5/FM | ROUND TREE | ALUMINUM | 1/2 | 1" | 1/4 | EA |
| 57013 | SA-5/FM | CYLINDRICAL | ALUMINUM | 1/2 | 1" | 1/4 | EA |
| 57014 | SC-42 | CYLINDRICAL RADIUS | MINI SINGLE | 1/8 | 9/16 | 1/8 | EA |
| 57015 | SG-5 | POINTED TREE | SINGLE | 1/2 | 1" | 1/4 | EA |
| 57016 | SA-5 | CYLINDRICAL | SINGLE | 1/2 | 1" | 1/4 | EA |
| 57017 | SF-42 | ROUND TREE | MINI SINGLE | 1/8 | 1/2 | 1/8 | EA |
| 57018 | SM-5 | CONE | SINGLE | 1/2 | 7/8 | 1/4 | EA |

CUTTING TOOLS

RAPID REAMER



- Drill truck frames in **MINUTES INSTEAD OF HOURS**. Specially engineered incline plane makes the difference.
- Reduces time, drill breakage, extreme pressure required on large diameter drills.
- Reamers start with only small, easy to drill pilot hole - then go into action to quickly enlarge the hole to size.
- Use heavy-duty 1/2" or larger drill with at least 4.5 amps; best results obtained if motor is 6 to 15 amps. High amps provide constant torque with even speed. For best cutting results, apply a medium amount of feed pressure at a maximum of 200-400 RPM.

| J&B # | SIZE | SHANK SIZE | OVERALL LENGTH |
|-------|------|------------|----------------|
| 38629 | 3/8 | 3/8 | 5-7/8 |
| 38630 | 7/16 | 7/16 | 5-3/8 |
| 38632 | 1/2 | 1/2 | 5-7/8 |
| 38633 | 9/16 | 1/2 | 5-7/8 |
| 38634 | 5/8 | 1/2 | 6-1/2 |
| 38636 | 3/4 | 1/2 | 6-3/4 |
| 38638 | 1 | 1/2 | 7 |

USE RAPID REAMER FOR:

5th Wheel Mounting * Spring Hangers * Fuel Tank Mounting * Tool Box Mounting * Accessory Mounting * Enlarging Spring Center Bolt Holes * Tow Hook Mounting * Weighted Bumper Mounting on Cranes * Installing Teeth on Front Ends * Loader Buckets * Enlarging Misaligned Holes

TYPICAL APPLICATIONS

Bumper Hitch Installation Panel Hole Alignment Re-size Elongated Holes

CUTTING TOOLS

STEP DRILL



- Laser-marked for easy size identification.
- Made of industrial grade **high-speed** molybdenum steel; drill up to 1/8" thick material.
- The single radial concave flute design means smooth, even cutting and truly round holes.
- **Self-starting** tip won't skid like standard twist drill bits.

| J&B # | STEPS | RANGE | INCREMENTS | SHANK SIZE |
|-------|-------|---------------|------------|------------|
| 41885 | 9 | 1/4" - 3/4" | 1/16" | 3/8 |
| 41883 | 10 | 1/4" - 1-3/8" | 1/8" | 1/2 |
| 41884 | 12 | 3/16" - 7/8" | 1/16" | 3/8 |

APPLICATIONS:

Ferrous & Non-Ferrous Sheet Metal * Wood * Plastic Laminates * Sink Grade Stainless Steel * Maintenance * Electrical Contracting * Plumbing * Auto Body Repair * Heating * Rust Proofing * Air Conditioning * Steel * Copper * Brass * Aluminum

HOLE HOG



- The 4-flute design eliminates the catching and hogging-in experienced with standard S&D drills when breaking through thinner materials such as truck frames.
- These core drills may replace tapered reamers in many applications.
- 3 Flats on shank.

| J&B # | SIZE | MINIMUM STARTING HOLE SIZE | OVERALL LENGTH | SHANK SIZE |
|-------|------|----------------------------|----------------|------------|
| 25103 | 1/2 | 5/16" | 4-5/16" | 1/2 |
| 25104 | 5/8 | 25/64" | 4-5/16" | 1/2 |
| 25118 | 3/4 | 15/32" | 4-5/16" | 1/2 |

DRILL BITS

LEFT HAND DRILLS J&B Magnum Premium



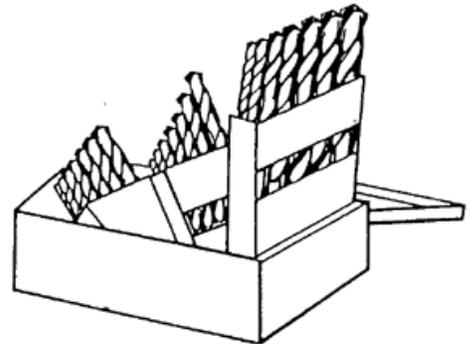
- Special Hi-Molybdenum tool steel.
- 135° split point for fast penetration and **ACCURATE STARTING** without center punch.
- Precision ground point, flutes, body, clearance and drill diameter for the ultimate in accuracy and performance.
- Body and clearance are gold surface treated for maximum lubricity.
- Ideal for drilling broken studs.
- Left hand spiral drill will often loosen the bolt stud, thereby eliminating the need for use of a bolt extractor.

| J&B # | DRILL DIAMETER | DECIMAL EQUIVAL. | OVERALL LENGTH |
|-------|----------------|------------------|----------------|
| 40890 | 1/16 | .0625 | 1-7/8 |
| 40891 | 3/32 | .0938 | 2-1/4 |
| 40892 | 1/8 | .1250 | 2-3/4 |
| 40894 | 3/16 | .1875 | 3-1/2 |
| 40896 | 1/4 | .2500 | 4 |
| 40898 | 5/16 | .3125 | 4-1/2 |
| 40900 | 3/8 | .3780 | 5 |
| 40901 | 7/16 | .4375 | 5-12 |
| 40903 | 1/2 | .5000 | 6 |

LEFT HAND DRILL BIT SET

- Contains 1 each of sizes 1/16, 3/32, 1/8, 3/16, 1/4, 5/16, 3/8, 7/16 & 1/2.

| J&B # | QTY |
|-------|-----|
| 40670 | EA |



EXTRACTORS

SCREW AND PIPE EXTRACTORS

Hi-Carbon Steel



- For removing broken screws, bolts and threaded parts.
- A hole is drilled in the broken part and the extractor inserted. Turned to the left the spiral flutes grip and remove the broken part without damaging the threads in the hole.

| J&B # | EXTRAC NO | TO REMOVE DIAMETER SCREW | DIAMETER SMALL END IN | DIAMETER LARGE END IN | LENGTH OVERALL INCHES | SIZE DRILL TO USE |
|-------|-----------|---------------------------|-----------------------|-----------------------|-----------------------|-------------------|
| 28131 | 1 | 3/32 to 5/32 | .054 | 5/32 | 2 | 3/32 |
| 28132 | 2 | 5/32 to 7/32 | .080 | 3/16 | 2-1/2 | 1/8 |
| 28133 | 3 | 7/32 to 9/32 | 1/8 | 1/4 | 3 | 3/16 |
| 28134 | 4 | 9/32 to 3/8 & 1/8 pipe | 3/16 | 11/32 | 3 | 1/4 |
| 28135 | 5 | 3/8 to 5/8 & 1/4 pipe | 15/64 | 7/16 | 3-3/8 | 17/64 |
| 28136 | 6 | 5/8 to 7/8 & 3/8 pipe | 3/8 | 19/32 | 3-3/4 | 13/32 |

BOLT REMOVER SET

- **FAST** and **EASY** stud removal.
- Left hand spiral drills often eliminate the need for bolt and screw extractors.
- Drill may loosen bolt stud with counter clockwise rotation.

| J&B # | QTY |
|-------|-----|
| 40760 | EA |

CONTAINS:

- 4 Left hand Super Premium drill bits with 135° split point.
Sizes 3/32, 1/8, 3/16, and 1/4
- 4 screw and bolt extractors
Sizes 1, 2, 3 and 4



EXTRACTOR SET

CONTAINS:

- 1 each #1 thru #5 extractor
- (Comes in a plastic pouch)

| J&B # | QTY |
|-------|-----|
| 28140 | EA |



EXTRACTORS

SCREW, STUD & PIPE EXTRACTORS

Forged Hi-Carbon



- The square shape of these extractors gives the tools the ability to remove broken bolts, screws and pipes with minimum deformation of the broken part.
- These forged extractors will not chew up or expand the object being removed.

| J&B # | EXTRACTOR # | TO REMOVE DIAMETER OF SCREW | SIZE OF SCREW EXTRACTOR | | DRILL SIZE | QTY |
|-------|-------------|-----------------------------------|----------------------------|-------|---------------|-----|
| | | | SHANK | POINT | | |
| 28141 | 1 | 3/16 to 9/32 | 3/16 | 1/8 | 1/8 | EA |
| 28142 | 2 | 9/32 to 11/32 | 1/4 | 11/64 | 3/16 | EA |
| 28143 | 3 | 11/32 to 1/2 | 5/16 | 7/32 | 1/4 | EA |
| 28144 | 4 | 1/2 to 3/4 | 3/8 | 9/32 | 5/16 | EA |
| 28145 | 5 | 5/8 to 7/8 | 7/16 | 21/64 | 3/8 | EA |

How to use:

To remove the broken threaded part: Drill a hole in the end of the broken part (left hand spiral heavy duty drills are recommended for this drilling operation) , insert extractor and turn counter clockwise using a wrench on the exposed end of the extractor. The broken part should unscrew without damage to the threads.

HACKSAW BLADES

BI-FLEX BI-METAL Welded Edge - Shatter-proof



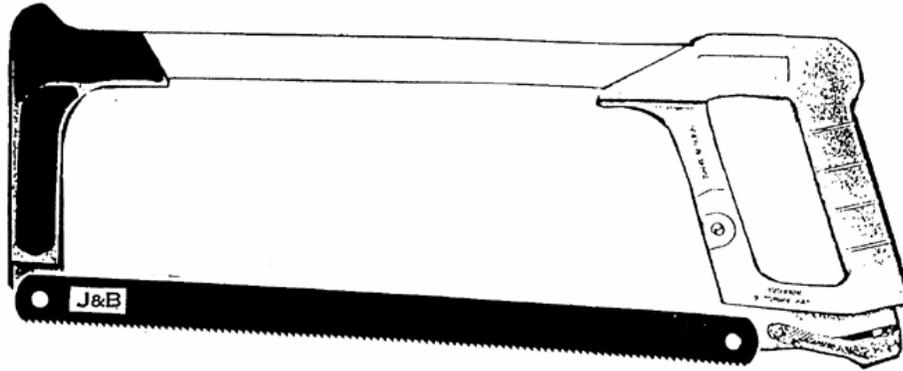
- The distinctive, high speed steel cutting edge is an electron beam welded to a separate alloy back for **EXTRA STRENGTH . . . EXTRA CUTTING POWER.**
- Bi-metal blade combines tougher teeth with flexibility for a safer, **SHATTER-PROOF BLADE.**
- Heat treated cutting edge for faster and easier cutting.
- Shatter-proof bi-metal blade exceeds the cutting life of ordinary steel blades.

| J&B # | TEETH/ IN. | LENGTH | WIDTH | BRAND | QTY |
|-------|------------|--------|-------|-------|-----|
| 21328 | 14 | 12" | 1/2" | MORSE | 1 |
| 21338 | 14 | 12" | 1/2" | MORSE | 10 |
| 40576 | 18 | 12" | 1/2" | MORSE | 1 |
| 40577 | 18 | 12" | 1/2" | MORSE | 10 |
| 38976 | 24 | 12" | 1/2" | MORSE | 1 |
| 38977 | 24 | 12" | 1/2" | MORSE | 10 |
| 39351 | 24 | 12" | 1/2" | LENOX | 1 |
| 39352 | 24 | 12" | 1/2" | LENOX | 10 |
| 40578 | 32 | 12" | 1/2" | MORSE | 1 |
| 40579 | 32 | 12" | 1/2" | MORSE | 10 |

| J&B # | TEETH/ IN. | LENGTH | WIDTH | BRAND | QTY |
|-------|------------|--------|-------|-------|-----|
| 21341 | 24 | 10" | 1/2" | MORSE | 1 |
| 21342 | 24 | 10" | 1/2" | MORSE | 10 |

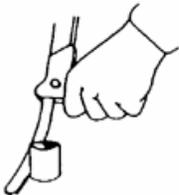
HACKSAW FRAME

- Precision-cast aluminum and steel frame.
- Unique lever tensions the 12" J&B blade to 30,000 psi (about twice that of ordinary frames).
- Blade doesn't twist when you bear down, doesn't bind in tough materials or structurals.

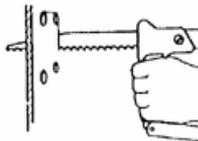


| J&B # | QTY |
|-------|-----|
| 38975 | EA |

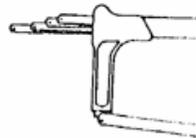
FEATURES FOR PROFESSIONAL TOOL USERS



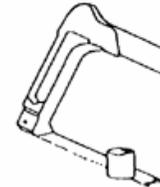
Use as job saw
(set screw holds
blade in position).



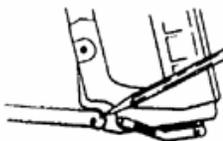
Use as compass
saw with reciprocating
blade in position.



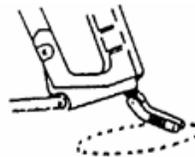
Store spare blades
inside back.



Mount blade at 45°
for flush cutting.



Permanently inserted
pins.



Lever turns tensioning
screw. Eight turns max.
Tighten blade up to
28,000 PSI.



Solid front end grip.



SAW BLADES

CIRCULAR SAW BLADE

Carbide tipped

- Carbide tipped. 5/8" universal arbor.
- Precision honed & impact resistant.
- Built for long-term use with proprietary welded welded carbide tips and a multi-tooth design that deliver smooth cutting and durability.



| J&B # | SIZE | TPI | QTY |
|-------|--------|-----|-----|
| 42140 | 7-1/4" | 24 | EA |

BAR CHAMP – OUTER REAMER

- 3 HSS Cutting Blades.
- Fits 1/8" – 3/4" stock.
- For use with threaded rod, round stock, bar, stock, rebar, bolts.
- Used on steel, stainless steel, copper, brass, wood, fiberglass, plastic.



| J&B # | DRILLING | HEX | QTY |
|-------|----------|------|-----|
| 41409 | 1/8-3/4 | 1/4" | EA |

SAW BLADES

JIG / SABRE SAW BLADES

- Durable, high performance bi-metal jig/sabre saw blades outlast all other types of carbon and high speed steel blades.
- **SHATTER-PROOF**; wood and metal cutting.



| J&B # | TEETH | LENGTH | QTY | RECOMMENDED USES |
|-------|-------|--------|-----|--|
| 39214 | 24 | 3-1/8" | 10 | 1/16" Steel and under, Thin wall tubing, Formica |

JIG / SABRE SAW BLADES

For Bayonet machines



| J&B # | TEETH | LENGTH | QTY | RECOMMENDED USES |
|-------|-------|--------|-----|---|
| 41888 | 24 | 1-3/4" | 10 | Thin sheet steel, thin wall tubing, suitable for scroll work. |
| 41889 | 14 | 3" | 10 | 1/16" - 1/8" Steel, conduit, plastic, tubing, etc. |

SAW BLADES

BI-METAL RECIPROCATING BLADES

Morse Brand - Universal 1/2" Shank

- Tough **SHATTER-PROOF** bi-metal reciprocating blades fit all popular machines.
- The teeth retain their hardness and stay sharper longer.



| J&B # | TEETH | LENGTH | QTY | RECOMMENDED USES |
|-------|-------|--------|-----|---|
| 42158 | 14 | 6" | 5 | For metals heavier than 1/8", bar stock, angles, etc. Also rubber, Masonite, fiberglass, etc. |
| 42041 | 14 | 9" | 5 | |
| 39224 | 18 | 6" | 5 | Heavy guage sheet metal, Conduit pipe, Tubing, Thin fiberglass |
| 42034 | 18 | 8" | 5 | |
| 42039 | 18 | 12" | 5 | |

BI-METAL RECIPROCATING BLADES

Hybrid Wood / Metal



| J&B # | TEETH | LENGTH | QTY | RECOMMENDED USES |
|-------|-------|--------|-----|---|
| 42030 | 14/10 | 8" | 5 | Heavy guage metals, Compostions, Masonite, Wood, etc. |
| 42032 | 14/10 | 12" | 5 | |

BI-METAL RECIPROCATING BLADES

Wood



| J&B # | TEETH | LENGTH | QTY | RECOMMENDED USES |
|-------|-------|--------|-----|---|
| 42036 | 6 | 6" | 5 | For wood and nail-embedded woods, all composition material. Also non-ferrous metals |
| 42037 | 6 | 9" | 5 | General roughing-in work in wood and nail-embedded woods. Fast cutting. |
| 42038 | 6 | 12" | 5 | |

SAW BLADES

BI-METAL RECIPROCATING BLADES

Sterling Brand – Universal 1/2”

- Tough **SHATTER-PROOF** bi-metal reciprocating blades fit all popular machines.
- The teeth retain their hardness and stay sharper longer.



| J&B # | T.P.I. | LENGTH | QTY | RECOMMENDED USES |
|-------|--------|--------|-----|---|
| 41700 | 10 | 6” | 5 | For metal decking, roofing and nonferrous metals. |
| 41701 | 10 | 8” | 5 | |
| 41702 | 14/10 | 8” | 5 | Heavy guage metals, Compostions, Masonite, Wood, etc. |
| 41703 | 14/10 | 12” | 5 | |
| 41704 | 14 | 6” | 5 | For metals heavier than 1/8”, bar stock, angles, etc. Also rubber, Masonite, fiberglass, etc. |
| 41705 | 14 | 8” | 5 | |
| 41706 | 18 | 6” | 5 | For heavy gauge sheet metal, coduit, pipe, tubing, thin fiberglass, etc. |
| 41707 | 18 | 8” | 5 | |
| 41708 | 24 | 4” | 5 | For metals lighter than 18 gauge thin wall tubing, formed sheet, trim, etc. |
| 41709 | 24 | 6” | 5 | |

METAL SCROLL CUTTING BLADES



| J&B # | T.P.I. | LENGTH | QTY | RECOMMENDED USES |
|-------|--------|--------|-----|---|
| 42157 | 14 | 3-5/8” | 10 | For scroll cutting heavy gauge metal, fiberglass, Masonite. |

SLIK-KOTE

| J&B # | T.P.I. | LENGTH | QTY | RECOMMENDED USES |
|---------------------|--------|--------|-----|--|
| 41978 | 6 | 6” | 10 | A special treatment & coating results in a hard abrasion resistant surface that adds to the cutting life of the blade. Especially recommended for fiberglass & other abrasive applications. Also effective on metals, including stainless steel. |
| Not Pictured | | | | |

SAW BLADES

BI-METAL RECIPROCATING BLADES

Morse Brand - Havoc

- Cuts all woods, nail embedded wood and metals.
- Tapered blade body best for pludge cutting.
- Bi-metal construction for long cutting life and heat and wear resistant.
- Straight tooth pitch for fast cutting.
- Reinforced, positive rake 6 TPI tooth design is high impact resistance & more aggressive cutting.
- Long life in the toughest applications.



| J&B # | TEETH | LENGTH | QTY | RECOMMENDED USES |
|-------|-------|--------|-----|---|
| 63003 | 6 | 6" | 5 | Wood, wood composites, metal, nail embedded wood, metal studs, wallboard, |
| 63004 | 6 | 12" | 5 | roofs, walls, plaster, lath, general demolition |

HOLE SAWS

BI-METAL - VARIED PITCH

- **“FOLLOW THROUGH” DESIGN** permits cutting through single pieces, successive partitions, or stacked material.
- **HIGH SPEED STEEL**; welded edge; shatter-proof.
- Cuts all machinable materials quickly and accurately.

| J&B # | SIZE |
|-------|--------|
| 39238 | 5/8 |
| 39240 | 3/4 |
| 39242 | 7/8 |
| 39244 | 1 |
| 39245 | 1-1/16 |
| 39246 | 1-1/8 |
| 39248 | 1-1/4 |
| 39249 | 1-5/16 |
| 39250 | 1-3/8 |
| 39252 | 1-1/2 |
| 39253 | 1-5/8 |
| 39254 | 1-3/4 |
| 39255 | 1-7/8 |

| J&B # | SIZE |
|-------|-------|
| 39256 | 2 |
| 39257 | 2-1/8 |
| 39258 | 2-1/4 |
| 39259 | 2-3/8 |
| 39260 | 2-1/2 |
| 39265 | 2-5/8 |
| 39261 | 2-3/4 |
| 39267 | 2-7/8 |
| 39262 | 3 |
| 39271 | 3-1/8 |
| 39273 | 3-1/4 |
| 39263 | 3-1/2 |
| 39234 | 4 |
| 39236 | 4-1/2 |



ARBORS WITH PILOT BIT

| J&B # | SHANK | FITS HOLE SAWS |
|-------|-----------------------------|----------------|
| 39264 | 1/4" Round | 9/16 - 1-3/16 |
| 39266 | 7/16" Hex | 9/16 - 1-3/16 |
| 39268 | 7/16" Hex | 1-1/4 - 6" |
| 39269 | Replacement Pilot Drill Bit | |



HOLE SAW KIT

INCLUDES:

1 – 3/4" hole saw
 1 – 7/8" hole saw
 1 – 1-1/8" hole saw
 1 – 1-3/8" hole saw
 1 – 1-1/2" hole saw
 1 – 1-3/4" hole saw
 1 – 2" hole saw

1 – 2-1/4" hole saw
 1 – 2-1/2" hole saw
 1 – 1/4" round arbor
 1 – 7/16" hex arbor
 1 – 1/4 pilot drill for arbor
 1 – Tool box
 1 – Arbor adapter



| J&B # | QTY |
|-------|-----|
| 39210 | EA |

TAPS

STANDARD HAND TAPS High Speed Steel



- **Tough carbon high speed steel**, manufactured to exact, precise specifications.
- All taps are 4-flute except sizes 6-32 and lower (these are 3-flute).
- Heat treated and tempered to insure long life, and clean, accurate threading.

| J&B # | SIZE |
|-------|--------|
| 38146 | 2-56 P |
| 38147 | 4-40 P |
| 38148 | 5-40 P |
| 38150 | 6-32 T |
| 38151 | 6-32 P |
| 38152 | 6-32 B |

| J&B # | SIZE |
|-------|---------|
| 38153 | 8-32 T |
| 38154 | 8-32 P |
| 38155 | 8-32 B |
| 38156 | 10-24 T |
| 38157 | 10-24 P |
| 38158 | 10-24 B |

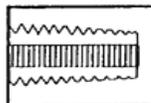
| J&B # | SIZE |
|-------|---------|
| 38159 | 10-32 T |
| 38160 | 10-32 P |
| 38161 | 10-32 B |
| 38162 | 12-24 T |
| 38163 | 12-24 P |
| 38164 | 12-24 B |

| J&B # | SIZE |
|-------|-----------|
| 24778 | 1/4-20 T |
| 24779 | 1/4-20 P |
| 24780 | 1/4-20 B |
| 24781 | 1/4-28 T |
| 24782 | 1/4-28 P |
| 24783 | 1/4-28 B |
| 24784 | 5/16-18 T |
| 24785 | 5/16-18 P |
| 24786 | 5/16-18 B |
| 24787 | 5/16-24 T |
| 24788 | 5/16-24 P |
| 24789 | 5/16-24 B |
| 24790 | 3/8-16 T |
| 24791 | 3/8-16 P |
| 24792 | 3/8-16 B |
| 24793 | 3/8-24 T |
| 24794 | 3/8-24 P |
| 24795 | 3/8-24 B |

| J&B # | SIZE |
|-------|-----------|
| 24796 | 7/16-14 T |
| 24797 | 7/16-14 P |
| 24798 | 7/16-14 B |
| 24799 | 7/16-20 T |
| 24800 | 7/16-20 P |
| 24801 | 7/16-20 B |
| 24802 | 1/2-13 T |
| 24803 | 1/2-13 P |
| 24804 | 1/2-13 B |
| 24805 | 1/2-20 T |
| 24806 | 1/2-20 P |
| 24807 | 1/2-20 B |
| 38334 | 9/16-12 T |
| 38335 | 9/16-12 P |
| 38336 | 9/16-12 B |
| 38337 | 9/16-18 T |
| 38338 | 9/16-18 P |
| 38339 | 9/16-18 B |

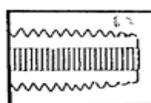
| J&B # | SIZE |
|-------|----------|
| 24808 | 5/8-11 T |
| 24809 | 5/8-11 P |
| 24810 | 5/8-11 B |
| 38340 | 5/8-18 T |
| 38341 | 5/8-18 P |
| 38342 | 5/8-18 B |
| 24811 | 3/4-10 T |
| 24812 | 3/4-10 P |
| 24813 | 3/4-10 B |
| 38343 | 3/4-16 T |
| 38344 | 3/4-16 P |
| 38345 | 3/4-16 B |
| 38332 | 7/8-9 T |
| 38326 | 7/8-14 T |
| 38333 | 1-8 T |
| 38329 | 1-14 T |

ILLUSTRATION SHOWING 3 STYLES OF TAPS



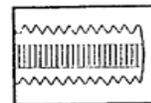
TAPER:

8 to 10 threads chamfered for easy thread starting in tough materials.



PLUG:

3 to 5 threads chamfered - general use when tapping to bottom of hole is not critical. (This is the most widely used type of tap.)



BOTTOMING:

1-1/2 threads chamfered - use after threads have been started for tapping to bottom of hole.

TAPS

3 PIECE TAP SETS

- Each tap set contains one each of the **taper**, **plug** and **bottoming** style taps.
- In blind holes tapped by hand to the very bottom, all three taps (i.e. taper, plug and bottoming) should be used in the order named.

Machine Screw

| J&B # | SIZE |
|-------|-------|
| 38304 | 6-32 |
| 38305 | 8-32 |
| 38306 | 10-24 |
| 38307 | 10-32 |
| 38303 | 12-24 |

Coarse

| J&B # | SIZE |
|-------|---------|
| 38308 | 1/4-20 |
| 38309 | 5/16-18 |
| 38310 | 3/8-16 |
| 38311 | 7/16-14 |
| 38312 | 1/2-13 |
| 38313 | 9/16-12 |
| 38314 | 5/8-11 |
| 38315 | 3/4-10 |

Fine

| J&B # | SIZE |
|-------|---------|
| 38316 | 1/4-28 |
| 38317 | 5/16-24 |
| 38318 | 3/8-24 |
| 38319 | 7/16-20 |
| 38320 | 1/2-20 |
| 38321 | 9/16-18 |
| 38322 | 5/8-18 |
| 38323 | 3/4-16 |



TAPER PIPE TAPS - NPT

High Speed Steel



| J&B # | SIZE |
|-------|------|
| 38327 | 1/16 |
| 38168 | 1/8 |
| 38169 | 1/4 |
| 38170 | 3/8 |
| 38171 | 1/2 |
| 38640 | 3/4 |
| 38641 | 1 |

EMPTY TAP INDEX BOXES

(SEE PAGE 2012)

TAPS

METRIC HAND TAPS High Speed Steel



- **Tough carbon high speed steel**, manufactured to exact, precise specifications.
- All taps are 4-flute except size 3 - .50, which is 3-flute.
- Heat treated and tempered to insure long life, and clean, accurate threading.

| J&B # | SIZE |
|-------|------------|
| 22484 | 3 - .50 P |
| 22608 | 4 - .70 T |
| 22486 | 4 - .70 P |
| 22609 | 4 - .70 B |
| 22610 | 5 - .80 T |
| 22485 | 5 - .80 P |
| 22611 | 5 - .80 B |
| 22475 | 5 - .90 P |
| 22612 | 6 - 1.00 T |
| 22487 | 6 - 1.00 P |
| 22613 | 6 - 1.00 B |
| 22476 | 7 - 1.00 P |
| 22614 | 8 - 1.00 T |
| 22503 | 8 - 1.00 P |
| 22615 | 8 - 1.00 B |
| 22616 | 8 - 1.25 T |
| 22488 | 8 - 1.25 P |
| 22617 | 8 - 1.25 B |

| J&B # | SIZE |
|-------|-------------|
| 22477 | 9 - 1.00 P |
| 22478 | 9 - 1.25 P |
| 22618 | 10 - 1.00 T |
| 22504 | 10 - 1.00 P |
| 22619 | 10 - 1.00 B |
| 22620 | 10 - 1.25 T |
| 22489 | 10 - 1.25 P |
| 22621 | 10 - 1.25 B |
| 22622 | 10 - 1.50 T |
| 22490 | 10 - 1.50 P |
| 22623 | 10 - 1.50 B |
| 22479 | 11 - 1.50 P |
| 22624 | 12 - 1.25 T |
| 22483 | 12 - 1.25 P |
| 22625 | 12 - 1.25 B |
| 22626 | 12 - 1.50 T |
| 22480 | 12 - 1.50 P |
| 22627 | 12 - 1.50 B |

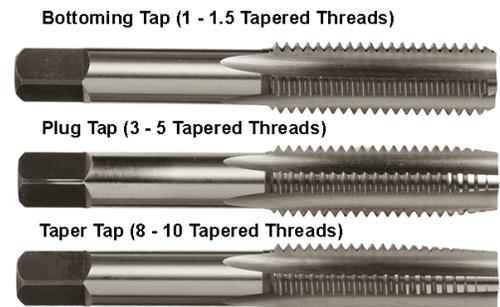
| J&B # | SIZE |
|-------|-------------|
| 22628 | 12 - 1.75 T |
| 22491 | 12 - 1.75 P |
| 22629 | 12 - 1.75 B |
| 22492 | 14 - 1.25 P |
| 22472 | 14 - 1.50 P |
| 22630 | 14 - 2.00 T |
| 22493 | 14 - 2.00 P |
| 22631 | 14 - 2.00 B |
| 22474 | 16 - 1.50 P |
| 22632 | 16 - 2.00 T |
| 22473 | 16 - 2.00 P |
| 22633 | 16 - 2.00 B |
| 22467 | 18 - 1.50 P |
| 22481 | 18 - 2.50 P |
| 22466 | 20 - 1.50 P |
| 22482 | 20 - 2.50 P |

3 PIECE TAP SETS

- Each tap set contains one each of the **taper**, **plug** and **bottoming** style taps.
- In blind holes tapped by hand to the very bottom, all three taps (i.e. taper, plug and bottoming) should be used in the order named.

| J&B # | SIZE |
|-------|-----------|
| 22640 | 4 - .70 |
| 22641 | 5 - .80 |
| 22642 | 6 - 1.00 |
| 22643 | 8 - 1.00 |
| 22644 | 8 - 1.25 |
| 22645 | 10 - 1.00 |
| 22646 | 10 - 1.25 |

| J&B # | SIZE |
|-------|-----------|
| 22647 | 10 - 1.50 |
| 22648 | 12 - 1.25 |
| 22649 | 12 - 1.50 |
| 22650 | 12 - 1.75 |
| 22651 | 14 - 2.00 |
| 22652 | 16 - 2.00 |



TAPS

T-TYPE TAP WRENCH



- Sliding T-handle with spring tension to hold handle in place. Self-equalizing jaws.

| J&B # | FITS STANDARD TAPS | FITS MACHINE SCREW TAPS |
|-------|--------------------|-------------------------|
| 22500 | 1/16 to 1/4 | #0 to 14 |
| 22501 | 7/32 to 1/2 | #12 to 14 |

- Straight handle design provides greater leverage. Used with square shank tools.



| J&B # | FITS STANDARD | FITS METRIC |
|-------|---------------|-------------|
| 32327 | 1/4 to 1" | 6mm to 24mm |

TAP & DRILL SET

- J&B introduces the 19 piece combination set of quicktwist drill bits and matching taps.
- This unique set offers both the **drill** and **matching tap**, so you will never have to guess again.
- Quicktwist drill bits have a 135° split point for fast, accurate drilling. Their surface is coated with an alkali-nitrite bath to reduce adhesion.
- Taps are ground from super high speed steel.

SET INCLUDES ONE EACH . . .

| <u>TAP</u> | <u>DRILL</u> |
|------------|--------------|
| 6-32 | #36 |
| 8-32 | #29 |
| 10-24 | #25 |
| 10-32 | #21 |
| 1/4-20 | # 7 |
| 5/16-18 | F |
| 3/8-16 | 5/16 |
| 7/16-14 | U |
| 1/2 | 27/64 |

Heavy Duty Metal Case



| J&B # | QTY |
|-------|-----|
| 20576 | EA |

DIES

HEX DIES

- These dies are precision made of high quality carbon tool steel and meet the highest industry standards.

| J&B # | SIZE | WIDTH ACROSS FLATS | QTY |
|-------|---------|--------------------|-----|
| 41003 | 6-32 | 1" | EA |
| 41004 | 8-32 | 1" | EA |
| 41005 | 10-24 | 1" | EA |
| 41006 | 10-32 | 1" | EA |
| 41009 | 1/4-20 | 1" | EA |
| 41010 | 1/4-28 | 1" | EA |
| 41011 | 5/16-18 | 1" | EA |
| 41012 | 5/16-24 | 1" | EA |
| 41013 | 3/8-16 | 1" | EA |
| 41014 | 3/8-24 | 1" | EA |
| 41015 | 7/16-14 | 1" | EA |
| 41016 | 7/16-20 | 1" | EA |
| 41017 | 1/2-13 | 1" | EA |
| 41022 | 1/2-20 | 1" | EA |
| 41021 | 5/8-11 | 1-7/16" | EA |
| 41039 | 5/8-18 | 1-7/16" | EA |
| 41023 | 3/4-10 | 1-7/16" | EA |
| 41043 | 3/4-16 | 1-7/16" | EA |



PIPE DIES - NPT

| J&B # | SIZE | WIDTH ACROSS FLATS | QTY |
|-------|------|--------------------|-----|
| 22380 | 1/8 | 1" | EA |
| 22381 | 1/4 | 1" | EA |
| 22382 | 3/8 | 1-7/16" | EA |
| 22383 | 1/2 | 1-5/8" | EA |

| J&B # | SIZE | WIDTH ACROSS FLATS | QTY |
|-------|-----------|--------------------|-----|
| 41025 | 4 -.70 | 1" | EA |
| 41026 | 5 -.80 | 1" | EA |
| 41027 | 6 - 1.00 | 1" | EA |
| 41029 | 8 - 1.25 | 1" | EA |
| 41031 | 10 - 1.50 | 1" | EA |
| 41033 | 12 - 1.75 | 1" | EA |

HEX DIE HOLDERS

- 3-jaw **SELF-CENTERING** adjustable guides assure straight threads and easy starting.



| J&B # | WIDTH ACROSS FLATS | QTY |
|-------|--------------------|-----|
| 41040 | UP TO 1" | EA |
| 41042 | UP TO 1-7/16" | EA |

KEENSERTS

- Easy to install; **NO SPECIAL TOOLS NEEDED.**
- Provides permanent threads that refuse failure, even under excessive loading; won't strip, rotate or pull out.
- Exclusive locking feature provides a positive, **mechanical lock** against rotation.
- Carbon steel inserts.



1. DRILL OUT OLD THREADS, USING STANDARD DRILL



2. TAP NEW THREADS, USING STANDARD TAP.



3. SCREW IN INSERT UNTIL SLIGHTLY BELOW SURFACE.



4. DRIVE "KEES" DOWN WITH SEVERAL TAPS ON INSTALLATION TOOL.



5. INSTALLED INSERT.

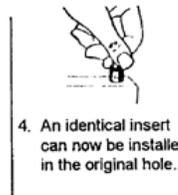
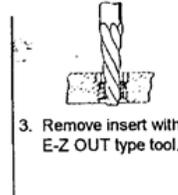
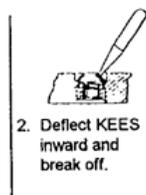
THINWALL

| INSERTS | | | | | INSTALLATION DATA | | | | | REMOVAL DATA | |
|----------------------|----------------------|----------------|-----|--------|-------------------|--------------|----------|-------------------|-------|--------------|-------|
| INTERNAL THREAD SIZE | EXTERNAL THREAD SIZE | J&B # | QTY | LENGTH | TAP DRILL DIAM | C' SINK DIAM | TAP SIZE | INSTALLATION TOOL | | DRILL | |
| | | | | | | | | SIZE | J&B # | SIZE | DEPTH |
| 10-24 10-32 | 5/16-18 | 21700 21701 | 5 | .31 | "I" | .32 | 5/16-18 | | | | |
| 1/4-20 1/4-28 | 3/8-16 | 21702 21703 | 5 | .37 | "Q" | .38 | 3/8-16 | 1/4 | 21721 | 9/32 | 3/16 |
| 5/16-18 5/16-24 | 7/16-14 | 21704 21705 | 5 | .43 | "X" | .44 | 7/16-14 | 5/16 | 21722 | 11/32 | 3/16 |
| 3/8-16 3/8-24 | 1/2-13 | 21706 21707 | 5 | .50 | 29/64 | .51 | 1/2-13 | 3/8 | 21723 | 13/32 | 3/16 |
| 7/16-14 7/16-20 | 9/16-12 | 21708 21709 | 3 | .56 | 33/64 | .57 | 9/16-12 | 7/16 | 21724 | 15/32 | 3/16 |
| 1/2-13 1/2-20 | 5/8-11 | 21710 21711 | 3 | .62 | 37/64 | .63 | 5/8-11 | 1/2 | | 17/32 | 3/16 |

HEAVY DUTY

| | | | | | | | | | | | |
|------------------|--------|----------------|---|-----|-------|-----|--------|-----|-------|-------|------|
| 5/8-11 5/8-18 | 7/8-14 | 21712 21713 | 1 | .87 | 53/64 | .88 | 7/8-14 | 5/8 | 21726 | 25/32 | 3/16 |
|------------------|--------|----------------|---|-----|-------|-----|--------|-----|-------|-------|------|

Quick, easy to remove
if necessary
with standard tools . . .



THREAD REPAIR INSERTS

HELI-COIL PERMA-THREAD

- Made of stainless steel wire; rolled to a carefully controlled thread form.
- Inserts adjust to tapped hole with a strength **exceeding** the original threads.
- Used on aluminum, aluminum alloys, steel, and cast iron.
- **Repair kits** restore stripped, worn, damaged threads easily to a permanent stronger than original condition.



Heli-Coils

Repair kits

| J&B # | SIZE | REACH | QTY | J&B # | SIZE | QTY |
|--------------|--------------------|-------------|----------|--------------|--------------------|----------|
| 40104 | 1/4-20 | | 12 | 40148 | 1/4-20 | 1 |
| 40105 | 5/16-18 | | 12 | 40149 | 5/16-18 | 1 |
| 40106 | 3/8-16 | | 12 | 40150 | 3/8-16 | 1 |
| 40107 | 7/16-14 | | 6 | 40151 | 7/16-14 | 1 |
| 40108 | 1/2-13 | | 6 | 40152 | 1/2-13 | 1 |
| 40109 | 9/16-12 | | 6 | | | |
| 40110 | 5/8-11 | | 6 | 40154 | 5/8-11 | 1 |
| 40111 | 3/4-10 | | 4 | | | |
| 40112 | 7/8-9 | | 1 | | | |
| 40113 | 1-8 | | 1 | | | |
| 40117 | 7/16-20 | | 6 | | | |
| 40081 | 5MM - .80 | | 12 | 40091 | 5MM - .80 | 1 |
| 40119 | 6MM - 1.00 | | 12 | 40156 | 6MM - 1.00 | 1 |
| 40121 | 8MM - 1.25 | | 12 | 40157 | 8MM - 1.25 | 1 |
| 40095 | 10MM - 1.00 | 1/2" | 6 | 40101 | 10MM - 1.00 | 1 |
| 40145 | 10MM - 1.25 | | 12 | 40146 | 10MM - 1.25 | 1 |
| 40122 | 10MM - 1.50 | | 12 | 40158 | 10MM - 1.50 | 1 |
| 40079 | 12MM - 1.25 | | 6 | 40102 | 12MM - 1.25 | 1 |
| 40096 | 12MM - 1.25 | 1/2" | 6 | | | |
| 40123 | 12MM - 1.75 | | 6 | 40159 | 12MM - 1.75 | 1 |
| 40097 | 14MM - 1.25 | 1/2" | 6 | 40144 | 14MM - 1.25 | 1 |
| 40124 | 14MM - 2.00 | | 6 | | | |
| 40099 | 18MM - 1.50 | 1/2" | 6 | 40147 | 18MM - 1.50 | 1 |

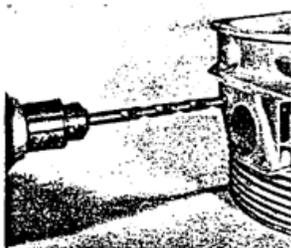
Repair kits include:

- one pack of stainless steel inserts
- one high speed steel tap
- one installation tool

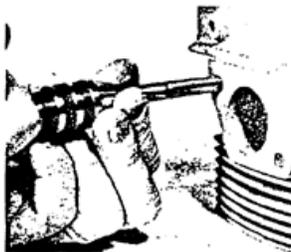


*** Part#'s 40095, 40096, 40097 & 40099 are Spark Plug Series and have a shorter reach. Repair kit part#'s 40101, 40102 and 40144 do not come with inserts.

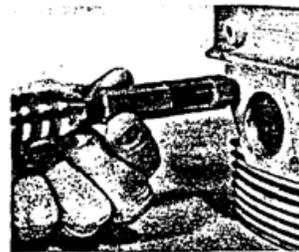
INSTRUCTIONS:



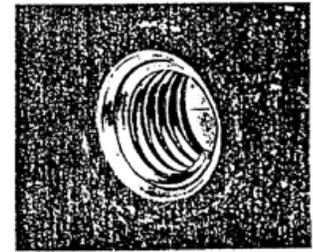
1. Drill out damaged threads.



2. Tap new threads.



3. Install new Perma-Thread insert. (Prewinding tool shown is used for fine thread applications only.)

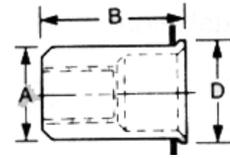


4. Remove tangs from insert. You now have a permanently repaired thread.

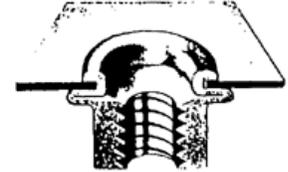
NUTSERTS

THINSHEET INSERTS

- Secures threads from one side of work in materials too thin to support them.
- Steel - Zinc Plated. **Exceeds** strength of matching bolt or screw.
- Heavier upper lip provides extra pressure relief on thin sheet metals and soft aluminum, brass, copper, and plastics.



(Before Crimping)



(After Crimping)

| J&B # | SIZE | RECOMMENDED GRIP RANGE | A MAX. | B MAX. | D MAX. | DRILL SIZE | QTY |
|-------|---------|------------------------|--------|--------|--------|------------|-----|
| 11307 | 6-32 | .020 - .080 | .249 | .410 | .287 | 1/4" | 20 |
| 11308 | 8-32 | .020 - .080 | .249 | .410 | .287 | 1/4" | 20 |
| 11309 | 10-32 | .020 - .130 | .280 | .465 | .320 | 9/32" | 20 |
| 11312 | 10-24 | .020 - .130 | .280 | .465 | .320 | 9/32" | 20 |
| 11313 | 1/4-20 | .030 - .165 | .347 | .610 | .415 | 3/8" | 10 |
| 11314 | 5/16-18 | .040 - .200 | .499 | .720 | .540 | 1/2" | 10 |
| 11804 | 3/8-16 | .040 - .200 | .499 | .720 | .540 | 1/2" | 10 |
| 11800 | M4-.70 | .020 - .080 | .249 | .410 | .287 | 1/4" | 20 |
| 11801 | M5-.80 | .020 - .130 | .280 | .465 | .320 | 9/32" | 20 |
| 11802 | M6-1.00 | .030 - .165 | .374 | .610 | .415 | 3/8" | 10 |
| 11803 | M8-1.25 | .040 - .200 | .499 | .720 | .540 | 1/2" | 10 |

HOW IT WORKS:

1. The Thin Sheet Nutsert, held securely by the tool, is placed into a prepared hole.
2. Upon the tool's actuation, the threaded portion is pulled until the fastener's wall collapses radially outward, clinching it tight against the sheet.
3. The tool is withdrawn, leaving the Thin Sheet Nutsert ready to receive a bolt or screw.

LARGE FLANGE THINSHEET INSERTS

- Provides captive threads in materials too thin to independently support threads, or where costly tapping operations are to be eliminated.
- Can be used as a rivet to join materials that will ultimately have a separate component attached.
- Aluminum Alloy, Plain Finish.



| J&B # | SIZE | RECOMMENDED GRIP RANGE | HOLE SIZE | DRILL SIZE | QTY |
|-------|-------------|------------------------|------------|------------|-----|
| 41965 | 8-32 U.S.S. | .010 - .075 | .221-.226" | 7/32 | 50 |

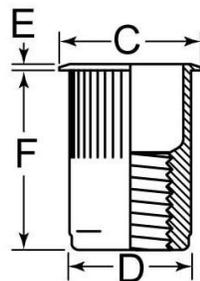
NUTSERTS

KNURLED THIN WALL INSERTS

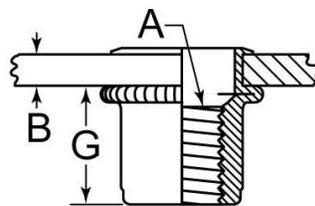
- Secures threads from one side of work in materials too thin to support them.
- Low carbon steel zinc yellow trivalent open end.
- Provides a strong, threaded insert on materials too thin or brittle to support tapped hole.



| J&B # | A | B | C | D | E | F | G | QTY |
|-------|----------|-------------|-------|-------|-------|-------|-------|-----|
| 39616 | 6-32 | .020"-.080" | .310" | .265" | .019" | .420" | .305" | 20 |
| 39617 | 8-32 | .020"-.080" | .310" | .265" | .019" | .420" | .305" | 20 |
| 11761 | 10-32 | .020"-.130" | .340" | .296" | .019" | .475" | .315" | 20 |
| 11762 | 10-24 | .020"-.130" | .415" | .296" | .030" | .475" | .315" | 20 |
| 11763 | 1/4-20 | .027"-.165" | .455" | .390" | .022" | .580" | .380" | 10 |
| 11764 | 5/16-18 | .027"-.150" | .595" | .530" | .022" | .690" | .470" | 10 |
| 11765 | 3/8-16 | .027"-.150" | .595" | .530" | .022" | .690" | .470" | 10 |
| 39610 | M4-.70 | 0.50-2.00 | 9.91 | 6.73 | .76 | 10.68 | 7.75 | 20 |
| 39611 | M5-.80 | 0.50-3.30 | 10.54 | 7.52 | .76 | 12.07 | 8.00 | 20 |
| 39612 | M6-1.00 | 0.70-4.20 | 12.70 | 9.91 | .76 | 14.73 | 9.65 | 10 |
| 39613 | M8-1.25 | 0.70-3.80 | 17.40 | 13.46 | .89 | 17.53 | 11.94 | 10 |
| 39614 | M10-1.50 | 0.70-3.80 | 17.40 | 13.46 | .89 | 17.53 | 11.94 | 10 |



UNINSTALLED



INSTALLED

NUTSERTS

NUTSERT HAND TOOL



| J&B # | QTY |
|-------|-----|
| 11805 | EA |

(Hand Tool only)

NUTSERT KIT WITH TOOL

CONTAINS:

Hand Tool, Wrench,
and the following Conversion Kits:
6-32, 8-32, 10-24,
1/4-20, 5/16-18,
and a Mandrel only for size 10-32.
(Complete in Metal Case)



| J&B # | QTY |
|-------|-----|
| 11806 | EA |

CONVERSION KITS

| J&B # | SIZE | QTY |
|-------|---------|-----|
| 11790 | 3/8-16 | EA |
| 11791 | M4-.70 | EA |
| 11792 | M5-.80 | EA |
| 11793 | M6-1.00 | EA |
| 11794 | M8-1.25 | EA |



FILES

ALL FILES ARE AMERICAN PATTERN (ENGINEERING)

FLAT FILES

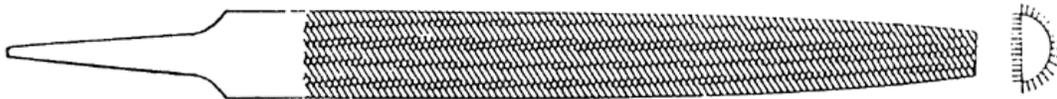


SHAPE: Tapered in width and thickness. Double cut on both sides and single cut on edges.

USE: Favored for use in factories, machine shops, and garages because of its ability to work on iron, steel, etc. . . . and quick removal of stock from plain surfaces.

| J&B # | LENGTH | CUT | QTY |
|-------|--------|--------|-----|
| 39810 | 8" | BAST | EA |
| 39811 | 10" | BAST | EA |
| 39812 | 12" | BAST | EA |
| 39813 | 12" | SMOOTH | EA |

HALF ROUND FILES



SHAPE: Round on one side and flat on the other. Both sides are double cut. The file tapers toward the point in both width and thickness.

USE: The half round side (front) makes this file ideal for getting into rounded holes, concave corners, crevices, etc. Also can be used on flat surfaces.

| J&B # | LENGTH | CUT | QTY |
|-------|--------|------|-----|
| 39825 | 8" | BAST | EA |
| 39826 | 10" | BAST | EA |

MILL FILES



SHAPE: Tapers slightly in width. Sides and edges are single cut.

USE: This is the most commonly used file in the USA. It is suitable for workshops and sharpening mill or circular saws, hoes, axes, spades, shovels, etc. Also for draw filing and finishing metals.

| J&B # | LENGTH | CUT | QTY |
|-------|--------|------|-----|
| 39835 | 8" | BAST | EA |
| 39836 | 10" | BAST | EA |
| 39837 | 12" | BAST | EA |

FILES

ALL FILES ARE AMERICAN PATTERN (ENGINEERING)

ROUND FILES



SHAPE: Shape tapers slightly toward point.

USE: Designed for enlarging circular holes, mouldings, concave surfaces, and rounded grooves.

| J&B # | LENGTH | SIZE | CUT | QTY |
|-------|--------|------|------|-----|
| 39817 | 8" | 5/16 | BAST | EA |
| 39818 | 10" | 3/8 | BAST | EA |

THREE SQUARE FILES



SHAPE: Triangular as the Taper files, but double cut with sharp corners slightly set and single cut edges. Angles are 60° and tapers toward the point.

USE: For cleaning out corners, filing angles, taps and cutters. Also used on flat surfaces.

| J&B # | LENGTH | SIZE | CUT | QTY |
|-------|--------|------|------|-----|
| 39831 | 10" | 3/4 | BAST | EA |

HANDY FILES



SHAPE: One side double cut for fast stock removal and one side single cut for smoother finishing. One edge single cut and one edge safe (uncut).

USE: Has many purposes such as sharpening hoes, lawn mower blades, sharpening metals and smoothing plastics.

| J&B # | LENGTH | CUT | QTY |
|-------|--------|------|-----|
| 39805 | 8" | BAST | EA |

FILES

FILE HANDLES



- Tite grip screw on file handle, high quality birch, natural wax finish.
- Screw on handle makes its own thread on tang of file.

| J&B # | DESCRIP | STYLE | QTY |
|-------|---------|-------|-----|
| 39840 | For 8" | WOOD | EA |
| 39841 | For 10" | WOOD | EA |

FILE BRUSH AND CARD



- Proper cleaning helps to prolong the life of a file.
- Use the brush side for general cleaning and the card side for stubborn clogging.

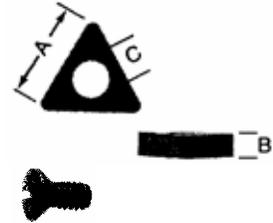
| J&B # | QTY |
|-------|-----|
| 39849 | EA |

CUTTING TOOLS

BRAKE LATHE BITS

- Replaceable carbide inserts maintain sharp cutting tools for optimum performance.
- For brake drum and disc lathes.
- Triangle brake lathe bits for Ammco and other machines.
- **Each box** comes with 10 screws and 10 triangular bits.

| J&B # | A | B | C | QTY |
|-------|------|-------|-------|-----|
| 39001 | 3/8" | 7/64" | 9/64" | 10 |





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www.jbfleet.com

SILVER & DEMING DRILL BITS



| | | | |
|---|--------|-------|--|
| 1 | 17/32" | 41440 | |
| 1 | 19/32" | 41444 | |
| 1 | 21/32" | 41448 | |
| 1 | 23/32" | 41451 | |
| 1 | 13/16" | 41457 | |
| 1 | 15/16" | 41465 | |

| | | | |
|---|--------|-------|--|
| 1 | 9/16" | 41442 | |
| 1 | 5/8" | 41446 | |
| 1 | 11/16" | 41450 | |
| 1 | 3/4" | 41454 | |
| 1 | 7/8" | 41461 | |
| 1 | 1" | 41469 | |

LET US HELP YOU MAKE THE CONNECTION

PART #3089

CARBIDE BURRS



J & B FLEET-INDUSTRIAL SUPPLY
PHONE: 330-821-6342
WWW.JBFLEET.COM

57016



57015



57012



57007



57005



57004



57002



57001



57018



57017



57014



57013



LET US HELP YOU MAKE THE CONNECTION

PART # 3083



EASY OUT / LEFT HAND DRILLS

J & B FLEET-INDUSTRIAL SUPPLY
PHONE: 330-821-6342

| | | | | | |
|--------------|--------------|--------------|--------------|--------------|--------------|
| 40891 | 40892 | 40894 | 40896 | 40898 | 40900 |
| 3/32" | 1/8" | 3/16" | 1/4" | 5/16" | 3/8" |
| 28131 | 28132 | 28133 | 28134 | 28135 | 28136 |
| #1 | #2 | #3 | #4 | #5 | #6 |

LET US HELP YOU MAKE THE CONNECTION

PART # 3044

SPIRAL & SQUARE SCREW EXTRACTORS



J & B FLEET-INDUSTRIAL SUPPLY
PHONE: 330-821-6342

| | | | | | |
|-----------------------------------|-----------------------------------|-----------------------------------|-----------------------------------|------------------------------------|------------------------------------|
| 28131 (# 1) | 28132 (# 2) | 28133 (# 3) | 28134 (#4) | 28135 (# 5) | 28136 (# 6) |
| 40722 (3/32 Bit) | 40724 (1/8 Bit) | 40728 (3/16 Bit) | 40732 (1/4 Bit) | 40733 (17/64 Bit) | 40742 (13/32 Bit) |
| 28141 (# 1) | 28142 (# 2) | 28143 (# 3) | 28144 (# 4) | 28145 (# 5) | 11 EXTRATORS |
| 40724 (1/8 Bit) | 40728 (3/16 Bit) | 40732 (1/4 Bit) | 40736 (5/16 Bit) | 40740 (3/8 Bit) | 11 DRILL BITS |



PART # 2236

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RECIPROCATING BLADES



42158



6" 14 TPI METAL CUTTING

3

42030



8" 14/10 TPI METAL CUTTING

2

42032



12" 14/10 METAL CUTTING

2

42034



8" 18 TPI METAL CUTTING

2

39224



6" 18 TPI METAL CUTTING

2

42034



8" 18 TPI METAL CUTTING

2

42039



12" 18 TPI METAL CUTTING

2

42036



6" 6TPI WOOD CUTTING

2

42037



9" 6 TPI WOOD CUTTING

2

42038



12" 6 TPI WOOD CUTTING

2



PART # 2881

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RECIPROCATING BLADES



| | |
|---|--|
| <p>2</p> <p style="text-align: center;">41700</p>  <p style="text-align: center;">6" 10 TPI METAL CUTTING</p> | <p>2</p> <p style="text-align: center;">41701</p>  <p style="text-align: center;">8" 10 TPI METAL CUTTING</p> |
| <p>2</p> <p style="text-align: center;">41702</p>  <p style="text-align: center;">8" 14/10 METAL CUTTING</p> | <p>2</p> <p style="text-align: center;">41978</p>  <p style="text-align: center;">6" 6 TPI FIBERGLASS CUTTING</p> |
| <p>2</p> <p style="text-align: center;">41703</p>  <p style="text-align: center;">12" 14/10 TPI METAL CUTTING</p> | |
| <p>2</p> <p style="text-align: center;">41704</p>  <p style="text-align: center;">6" 14 TPI METAL CUTTING</p> | <p>2</p> <p style="text-align: center;">41705</p>  <p style="text-align: center;">8" 14 TPI METAL CUTTING</p> |
| <p>2</p> <p style="text-align: center;">41706</p>  <p style="text-align: center;">6" 18 TPI METAL CUTTING</p> | <p>2</p> <p style="text-align: center;">41707</p>  <p style="text-align: center;">8" 18 TPI METAL CUTTING</p> |
| <p>2</p> <p style="text-align: center;">41708</p>  <p style="text-align: center;">4" 24 TPI METAL CUTTING</p> | <p>2</p> <p style="text-align: center;">41709</p>  <p style="text-align: center;">6" 24 TPI METAL CUTTING</p> |

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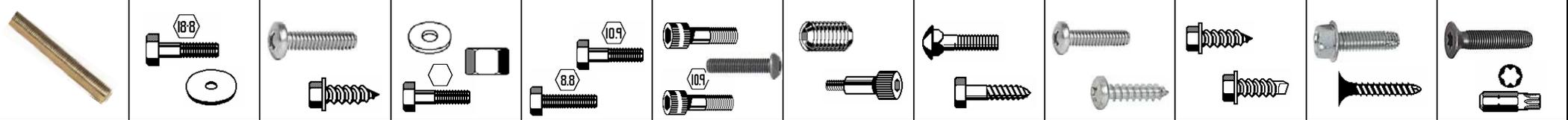
PART # 3042

RECIPROCATING BLADES



J & B FLEET-INDUSTRIAL SUPPLY
PHONE: 330-821-6342

| | | | | | |
|--|---|---|--|---|--|
| <p>42158</p> <p>6" LENGTH 14 TEETH</p> <p>BI-METAL</p> <p>For metals heavier than 1/8, bar stock, angles, etc. Also rubber, Masonite, wood, etc.</p> <p>4</p> | <p>39224</p> <p>6" LENGTH 18 TEETH</p> <p>BI-METAL</p> <p>Heavy gauge sheet metal, conduit pipe, tubing, thin fiberglass.</p> <p>4</p> | <p>39220</p> <p>3" LENGTH 24 TEETH</p> <p>BI-METAL</p> <p>Thin sheet metal, scroll cutting.</p> <p>4</p> | <p>42157</p> <p>3-5/8 LENGTH 14 TEETH</p> <p>BI-METAL</p> <p>Heavy gauge metals, fiberglass, Masonite scroll cutting</p> <p>4</p> | <p>42036</p> <p>6" LENGTH 6 TEETH</p> <p>BI-METAL</p> <p>For wood and nail-embedded woods, all composition material. Also non-ferrous metals.</p> <p>4</p> | |
|--|---|---|--|---|--|



J&B Fleet - Industrial Supply

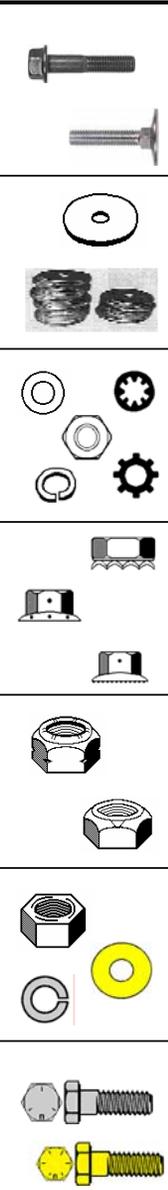
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PART # 2188

HAND FILES

| | |
|--|--|
| <p>1</p> <p>39849</p>  <p>FILE BRUSH & CARD</p> | <p>1</p> <p>39815</p>  <p>8" KNIFE FILE</p> |
| <p>1</p> <p>39840</p>  <p>8" & SMALLER HANDLE</p> | <p>3</p> <p>39805</p>  <p>8" HANDY FILE</p> |
| <p>1</p> <p>39841</p>  <p>10" & LONGER HANDLE</p> | <p>5</p> |
| <p>1</p> <p>39818</p>  <p>10" ROUND FILE</p> | <p>6</p> |
| <p>1</p> <p>39826</p>  <p>10" HALF ROUND FILE</p> | <p>7</p> |
| <p>1</p> <p>39836</p>  <p>10" MILL FILE</p> | <p>8</p> |





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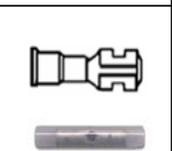
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PART # 2176

HOLE SAWS

| | | | |
|---|--|--|---|
| <p>39264 1/4 ROUND ARBOR</p>  <p>39269 REPLACEMENT PILOT BIT</p>  <p>1 EA</p> | <p>39266 2</p>  <p>7/16 HEX ARBOR</p> <p>1 (FOR 1" TO 1-1/8" HOLE SAWS)</p> | <p>39268 3</p>  <p>7/16 HEX ARBOR</p> <p>1 (FOR 1-1/4" TO 3" HOLE SAWS)</p> | <p>39240 4</p>  <p>3/4"</p> <p>1</p> |
| <p>39242 5</p>  <p>7/8"</p> <p>1</p> | <p>39244 6</p>  <p>1"</p> <p>1</p> | <p>39246 7</p>  <p>1-1/8"</p> <p>1</p> | <p>39248 8</p>  <p>1-1/4"</p> <p>1</p> |
| <p>39250 9</p>  <p>1-3/8"</p> <p>1</p> | <p>39252 10</p>  <p>1-1/2"</p> <p>1</p> | <p>39254 11</p>  <p>1-3/4"</p> <p>1</p> | <p>39256 12</p>  <p>2"</p> <p>1</p> |
| <p>39257 13</p>  <p>2-1/8"</p> <p>1</p> | <p>39258 14</p>  <p>2-1/4"</p> <p>1</p> | <p>39260 15</p>  <p>2-1/2"</p> <p>1</p> | <p>39262 16</p>  <p>3"</p> <p>1</p> |





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PART # 2194

HOLE SAWS



39264
1/4" ROUND ARBOR
FOR 9/16" TO 1-3/16' HOLE SAWS



39266
7/16" HEX ARBOR
FOR 9/16" TO 1-3/16' HOLE SAWS



39268
7/16" HEX ARBOR
FOR 1-1/4" TO 6" HOLE SAWS



39269
REPLACEMENT PILOT BIT
(1 OF EACH)



39238
5/8"



39240
3/4"



39242
7/8"



39244
1"



39246
1-1/8"



39248
1-1/4"



39249
1-5/16"



39250
1-3/8"



39252
1-1/2"



39253
1-5/8"



39254
1-3/4"



39255
1-7/8"



39256
2"



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PART # 2195

HOLE SAWS



| | | | |
|---|---|---|--|
| <p>1</p> <p>39257</p>  <p>2-1/8</p> | <p>1</p> <p>39261</p>  <p>2-3/4</p> | <p>1</p> <p>39263</p>  <p>3-1/2</p> | |
| <p>1</p> <p>39258</p>  <p>2-1/4</p> | <p>1</p> <p>39262</p>  <p>3"</p> | <p>1</p> <p>39234</p>  <p>4"</p> | |
| <p>1</p> <p>39259</p>  <p>2-3/8</p> | | | |
| <p>1</p> <p>39260</p>  <p>2-1/2</p> | | | |



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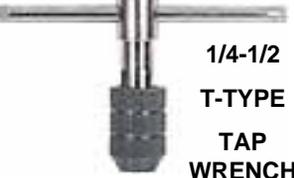
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PART # 2148

TAP & DIE SET



| | | | | | |
|---|---|---|---|---|--|
| 38168 1  | 38169 2  | 38170 3  | 38171 4  | 5 | 41040 21  |
| 1/8 PIPE TAP | 1/4 PIPE TAP | 3/8 PIPE TAP | 1/2 PIPE TAP | | 6-32-1/2 HEX DIE STOCK |
| 24790 TAP 6  | 41015 7  | 41017 8  | 9 | 10 | |
| 41013 HEX DIE  | 7/16-14 HEX DIE | 1/2-13 HEX DIE | | | |
| 3/8-16 | | | | | |
| 24784 TAP 11  | 24796 TAP 12  | 24802 TAP 13  | 14 | 15 | 22501  |
| 41011 HEX DIE  | 7/16-14 TAP | 1/2-13 TAP | | | 1/4-1/2 T-TYPE TAP WRENCH |
| 5/16-18 | | | | | |
| 38150 TAP 16  | 38153 TAP 17  | 38156 TAP 18  | 38159 TAP 19  | 24778 TAP 20  | 22500  |
| 41003 HEX DIE  | 41004 HEX DIE  | 41005 HEX DIE  | 41006 HEX DIE  | 41009 HEX DIE  | 6-32-1/4 T-TYPE TAP WRENCH |
| 6-32 | 8-32 | 10-24 | 10-32 | 1/4-20 | |





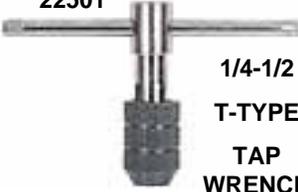
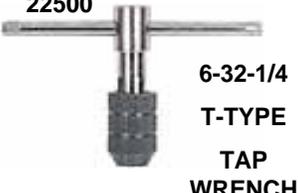
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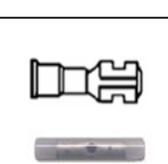
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PART # 2150

TAP & DIE SET

| | | | | | |
|---|---|--|--|--|--|
| <p>38168 ¹</p>  <p>1/8 PIPE TAP</p> <p>24790 TAP ⁶</p> <p>41013 HEX DIE</p>  <p>3/8-16</p> <p>24784 TAP ¹¹</p> <p>41011 HEX DIE</p>  <p>5/16-18</p> <p>38150 TAP ¹⁶</p>  <p>41003 HEX DIE</p>  <p>6-32</p> | <p>38169 ²</p>  <p>1/4 PIPE TAP</p> <p>41015 ⁷</p>  <p>7/16-14 HEX DIE</p> <p>24796 ¹²</p>  <p>7/16-14 TAP</p> <p>38153 TAP ¹⁷</p>  <p>41004 HEX DIE</p>  <p>8-32</p> | <p>38170 ³</p>  <p>3/8 PIPE TAP</p> <p>41017 ⁸</p>  <p>1/2-13 HEX DIE</p> <p>24802 ¹³</p>  <p>1/2-13 TAP</p> <p>38156 TAP ¹⁸</p>  <p>41005 HEX DIE</p>  <p>10-24</p> | <p>38171 ⁴</p>  <p>1/2 PIPE TAP</p> <p>41021 ⁹</p>  <p>5/8-11 HEX DIE</p> <p>24808 ¹⁴</p>  <p>5/8-11 TAP</p> <p>38159 TAP ¹⁹</p>  <p>41006 HEX DIE</p>  <p>10-32</p> | <p>38640 ⁵</p>  <p>3/4 PIPE TAP</p> <p>41023 ¹⁰</p>  <p>3/4-10 HEX DIE</p> <p>24811 ¹⁵</p>  <p>3/4-10 TAP</p> <p>24778 TAP ²⁰</p>  <p>41009 HEX DIE</p>  <p>1/4-20</p> | <p>41042</p>  <p>9/16-3/4 HEX DIE STOCK</p> <p>41040 ²¹</p>  <p>6-32-1/2 HEX DIE STOCK</p> <p>22501</p>  <p>1/4-1/2 T-TYPE TAP WRENCH</p> <p>22500</p>  <p>6-32-1/4 T-TYPE TAP WRENCH</p> |
|---|---|--|--|--|--|



LET US HELP YOU MAKE THE CONNECTION

PART # 3043



PIPE TAPS



J & B FLEET-INDUSTRIAL SUPPLY
PHONE: 330-821-6342

38168

38169

38170

38171

38640

38641

1/8

1/4

3/8

1/2

3/4

1"

1

1

1

1

1

1



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PART # 2055

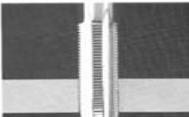
KEENSERTS



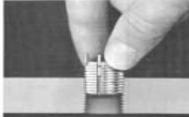
| | | | | |
|---|---|--|--|-----------|
| <p>21706 1</p>  <p>3/8-16 29/64 DRILL 4 1/2-13 TAP</p> | <p>21707 2</p>  <p>3/8-24 29/64 DRILL 4 1/2-13 TAP</p> | <p>21712 3</p>  <p>5/8-11 53/64 DRILL 2 7/8-14 TAP</p> | <p>21713 4</p>  <p>5/8-18 53/64 DRILL 2 7/8-14 TAP</p> | <p>5</p> |
| <p>21704 7</p>  <p>5/16-18 X DRILL 4 7/16-14 TAP</p> | <p>21705 8</p>  <p>5/16-24 X DRILL 3 7/16-14 TAP</p> | <p>9</p> | <p>10</p> | <p>11</p> |
| <p>21702 13</p>  <p>1/4-20 Q DRILL 4 3/8-16 TAP</p> | <p>21703 14</p>  <p>1/4-28 Q DRILL 3 3/8-16 TAP</p> | <p>21710 15</p>  <p>1/2-13 37/64 DRILL 3 5/8-11 TAP</p> | <p>21711 16</p>  <p>1/2-20 37/64 DRILL 3 5/8-11 TAP</p> | <p>17</p> |
| <p>21700 19</p>  <p>10-24 I DRILL 5 5/16-18 TAP</p> | <p>21701 20</p>  <p>10-32 I DRILL 5 5/16-18 TAP</p> | <p>21708 21</p>  <p>7/16-14 33/64 DRILL 3 9/16-12 TAP</p> | <p>21709 22</p>  <p>7/16-20 33/64 DRILL 3 9/16-12 TAP</p> | <p>23</p> |



1
DRILL OUT OLD THREADS, USING STANDARD DRILL.



2
TAP NEW THREADS, USING STANDARD TAP.



3
SCREW IN INSERT UNTIL SLIGHTLY BELOW SURFACE.

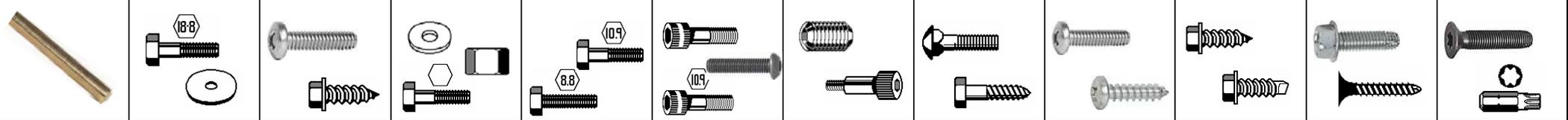


4
DRIVE "KEES" DOWN W/SEVERAL TAPS ON INSTALLATION TOOL.



5
INSTALLED INSERT.





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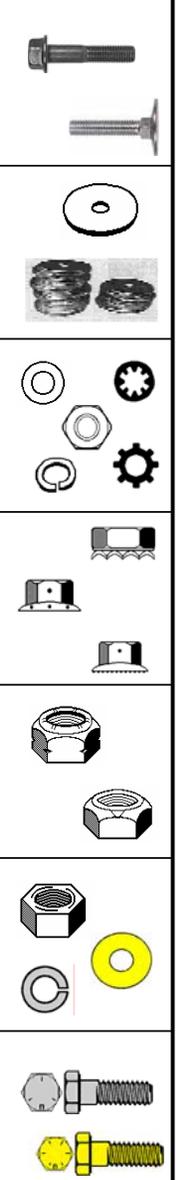
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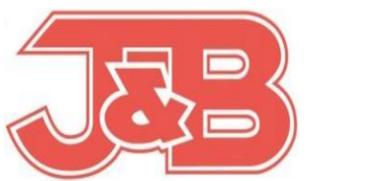
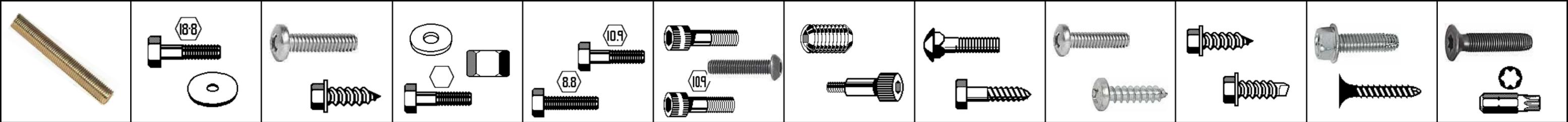
www.jbfleet.com

PART # 2053

HELI-COILS

| | | | | | |
|----|---|---|--|--|--|
| 1 | 40104  1/4-20 4 | 40105  5/16-18 4 | 40106  3/8-16 4 | 40107  7/16-14 3 | 40108  1/2-13 3 |
| 7 | 40109  9/16-12 2 | 40110  5/8-11 2 | 40111  3/4-10 2 | 40112  7/8-9 1 | 40113  1-8 1 |
| 13 | 14 | 15 | 16 | 40117  7/16-20 2 | 18 |
| 19 | 40119  6MM X 1.00 4 | 40121  8MM X 1.25 3 | 40122  10MM X 1.50 3 | 40123  12MM X 1.75 2 | 40124  14MM X 2.00 1 |





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PART # 2822

NUTSERTS



| | | | | | |
|---|---|--|--|---|--|
| <p>11791 1</p> <p>4 MM x .70 CONVERSION KIT</p> <p>1</p> | <p>11792 2</p> <p>5MM-.80 CONVERSION KIT</p> <p>1</p> | <p>11793 3</p> <p>6MM-1.00 CONVERSION KIT</p> <p>1</p> | <p>11794 4</p> <p>8MM-1.25 CONVERSION KIT</p> <p>1</p> | <p>5</p> | <p>11806 21</p>  |
| <p>11800 6</p>  <p>4 MM x .70</p> <p>10</p> | <p>11801 7</p>  <p>5 MM x .80</p> <p>10</p> | <p>11802 8</p>  <p>6 MM x 1.00</p> <p>10</p> | <p>11803 9</p>  <p>8 MM x 1.25</p> <p>10</p> | <p>10</p> | <p>NUTSERT TOOL KIT</p> |
| <p>11314 11</p>  <p>5/16-18</p> <p>10</p> | <p>11804 12</p>  <p>3/8-16</p> <p>10</p> | <p>11790 13</p> <p>3/8-16 CONVERSION KIT</p> <p>1</p> | <p>14</p> | <p>15</p> | |
| <p>11307 16</p>  <p>6-32</p> <p>10</p> | <p>11308 17</p>  <p>8-32</p> <p>10</p> | <p>11312 18</p>  <p>10-24</p> <p>10</p> | <p>11309 19</p>  <p>10-32</p> <p>10</p> | <p>11313 20</p>  <p>1/4-20</p> <p>10</p> | |

