

- A -

ABRASIVE CUTOFF WHEELS
Masonry335
Metal335

ACME TAPS221

ADAPTERS
A & B Taper Chuck.....155
Coolant Inducer Socket.....92
Mandrel (Arbor)338
Morse Taper Adapter.....93A
Morse Taper Ext. Socket93
Morse Taper Sleeve93
Morse Taper Solid Sockets.....93A
Plate Cutter137
Plug Ejecting Arbor.....338
Rebar Cutter.....138
SDS Shank Quick Release148

AIR SAW BLADES.....321

AIRCRAFT EXTENSION DRILLS110-112

ARBORS HOLE SAW (Mandrels).....338

AUGER BITS
Double Fluted176A
Auger Spade.....167
Dual (Stud) Auger172
Electrician Power Auger173
Hand Drive Screw Eye.....176B
Impact Wrench Auger - 1/2" Square Socket.....176
Impact Wrench Auger - 18" Length.....176
Impact Wrench Auger - Carbide Tipped.....176
Pipe Auger173
Power Pole175
SDS Shank176B
Ship Auger - G.P.-6" to 36" Length174
Ship Auger - HD- 8" - 18" Length175
Solid Center.....172
Timber172D

- B -

BALL NOSE END MILLS

BAND SAW BLADES330-331

BELLHANGER'S DRILLS107-108

BITS
Carbide Tile Cutout124
Curved Hole Wiring167
Drywall Cutout.....124
Forstner168
Multi-Spur Pipe168
Railroad Bonding122
Railroad Tie Boring123, 177
Railroad Tie Boring - 1 & 2 Flute.....123, 177
Railroad Tie Boring - Carbide Tip123, 177
Railroad Track122
Spade/Sets166

BLADES (Saw)
Air Saw.....321
Band Saw
Bi Metal331
Flexible331
Hard Back331
Portable330
Circular Saw
Carbide Tipped335
Diamond Saw - Dry Cutting
Asphalt & Green Concrete.....333
Block.....333
Brick & Block333
Continuous Rim Tile334
Cured Concrete.....333
Segmented Turbo334
Small Diameter Laser Welded.....334
Small Diameter Segmented.....334
Tuck Pointing333
Turbo.....334
Diamond Saw - Wet Cutting
Asphalt & Green Concrete.....332

- B -

BLADES / Diamond Saw - Wet Cutting -->
Asphalt Over Concrete332
Cured Concrete.....332
Hack Saw, Hand
Bi Metal328
Carbide Edged.....328
High Speed Steel.....328
Hack Saw, Power
High Speed Steel.....330
Jigsaw, Scroll326
Junior Saw.....326
Reciprocating Saw
1/2" Shank324-325
Air Saw321
Rod Saw - Carbide Edged.....326
Saber Saw
1/4" Shank320-321
Bayonet Shank.....322
Bosch Shank323
Makita Shank322
Scroll/Jigsaw
Hobby326
Pin End326
Plain End326
Tile Saw - Carbide Edged343

BODY DRILLS.....17

BORING BARS
Carbide Tipped Sets.....292
Indexable.....293-294

BOWLING BALL DRILLS.....119

BRIDGE REAMERS
Helical Flute.....200
Reduced Shank.....200
Straight Flute.....200

BRITISH STANDARD PIPE TAPS.....223

BURS, SOLID CARBIDE
Extra Long (Mini).....368
Long.....369
NF.....364
NF - ZrN Coated.....364
Sets.....370-371
Shapes A to N.....365-367
TiN Coated365-367

- C -

CAP SCREW COUNTERBORE - 3 FLUTE182

CAR REAMERS
Hex Shank199
Round Shank198-199
Taper Shank.....198

CARBIDE EDGED
Coping Saw Blade326
Hack Saw Blade.....328
Hole Saws.....341
Junior Saw Blades326
Reciprocating Saw Blades325
Rod Saw326
Saber Saw Blades321-323
Tile File343
Tile Saw343

CARBIDE INSERTS (Inserts).....293, 295-312

CARBIDE, SOLID
Burs364-371
Combined Drill & Countersink114, 182C
Drills54-55, 120-121
End Mills.....269-278
Reamers.....191

CARBIDE TIPPED
Boring Bars.....292
Circular Saw Blades.....335
Reamers.....190
Tool Bits.....314

CHISELS
Asphalt Cutter 5"161

- C -

CHISELS -->
 Bull (Moil) Point160
 Bushing Tool161
 Bushing Tool Heads161
 Bushing Tool Shanks161
 Clay Spade 5-1/2"161
 Flat (Cold) Chisel160
 Ground Rod Driver161
 Mortar (Seam) Chisel161
 Scaling Chisel160
 Slotting Tool161
CHUCK KEY HOLDER132
CHUCK KEYS132
 Master132A
 Master-Magnetic132A
 Ratchet132A
CHUCKING REAMERS
 Carbide, Solid193A-193E
 Carbide Tipped190
 Dowel Pin Sizes19
 Expansion193G
 Helical Flute188
 Oversize Decimal191
 Straight Flute188-189
 Taper Shank193F
 Undersize Decimal191
CHUCKS, MICRO PIN24
 Boring Chucks177B
CIRCULAR SAW BLADES - Carbide Tipped335
COMBINED DRILL & COUNTERSINKS
 Bell Type115
 Cobalt114
 Long Length115
 Plain Type114, 182C
 Sets/TiN115
 Solid Carbide182C
 Solid Carbide - Long Length182C
 Titanium Nitride Coated114, 183
COMBINED DRILL & TAP
 Metric214
 Pipe (NPT)214
 Standard214
CORE DRILLS
 3 & 4 Flute - Taper Length88
 3 & 4 Flute - Taper Shank89
 Percussion Core-Masonry-Carbide Tipped140-141
 Rotary Core - Masonry - Carbide Tipped139
COUNTERBORES
 Cap Screw - 3 Flute182
 Cap Screw - 3 Flute - Metric182
 Drills183
 Fillister Head Screw180A
 Interchangeable
 Straight Shank180
 Taper Shank180
COUNTERBORE PILOTS181
COUNTERSINKS
 Adjustable Drill Type (for Wood Screws)172A
 Carbide
 1 Flute Style187
 1 Flute Style (Long)187C
 3 Flute Style187
 6 Flute Style187
 6 Flute Style (Long)187C
 High Speed Steel
 0 Flute - Deburring184
 1 Flute - Countersink184
 3 Flute - Center Reamer185
 4 Flute - Machine Countersink185
 6 Flute - Chatterless186
 Indexable187A
 Sets186
CUT OFF BLADES
 5% Cobalt316
 High Speed Steel316

- C -

T-Shaped316
CUT OFF BLADE HOLDERS317
CUTTERS
 Adjustable Hole Cutter167C
 Adjustable Hole Cutter (Double Bladed)167B
 Annular
 Fractional126
 Metric126A
 Plate137
 Circle Hole Cutter167B
 Hole Cutter (Hole Saw)340A
 Rebar138
 Spot Weld125

- D -

DIE DRILLS120
DIE SETS236, 240
DIE STOCKS248
DIES
 Adjustable - Two Piece239A
 Cone239C
 Cone Die Holder239C
 Hexagon
 Acme Thread239D
 Automatic Thread231C
 Automotive Rethreading239B
 Bearing Locknut231B
 British Standard Hand232
 Heavy Duty - HSS239
 Left Hand233
 Left Hand Metric235
 Metric235
 Metric - Special Thread235
 Pipe - NPT233
 Special Thread234
 Standard233
 Hexagon (Standard Diameter)
 British Standard Pipe (Metric)237
 Heavy Duty - HSS238
 Metric237
 Pipe - NPT237
 Standard237
 Round
 British Standard Hand232
 Left Hand227
 Left Hand Metric227
 Metric228
 Metric - Special Thread229
 Pipe - British Standard - Parallel231A
 Pipe - British Standard - Taper231A
 Pipe - NPT231
 Pipe - NPS231
 Special Thread230
 Standard226
 Square
 Pipe - NPT239E
 Solid Square Bolt239E
DISPENSER CABINETS
 Drill68
 Tap244
 Tap & Drill244
DISPLAYS
 Aircraft Ext. Drills112
 Masonry Drills142
 3/8" Shank Drills77
 1/2" Shank Drills73
DRILL BLANKS - HSS58-59
DRILL CHUCKS133
DRILL COUNTER DISPLAYS68
DRILL DRIFTS (Keys)141
DRILL MILLS289A
DRILL SETS
 1/4" Shank Drills60-63

- D -

3/8" Shank Drills.....60, 62-63, 65, 77
1/2" Shank Drills.....70-71, 74

DRILL SETS -->
3/4" Shank Drills.....76
Brad Point.....169
Fast Spiral142
Jobber's Length Drills.....60-67
Long Boy Drills.....106
Masonry Drills136, 142, 147
Perfect Point.....170-171
SDS Shank.....147
Screw Machine Length Drills14-15, 18
Taper Length Drills81
Universal.....136
Wide Spiral142
Wood Bits166, 169-171

DRILL & SCREW EXTRACTOR SET205

DRILL & TAP SETS244

DRILL SHARPENERS.....128-130

DRILLS
Aircraft Ext. Drills
Cobalt - Type J110-112
HSS - Type A, B, C.....110-112
Left Hand.....110
TiN Coated.....110-111

Bellhanger's Drills
Auger Tipped107A
Carbide Tipped108
Flexible Shank107A
Regular108
Ship Auger107B
Threaded Flute107A

Body Drills (Sheeter Drills).....17
Bowling Ball119A

Carbide Drills (Solid)
Die.....120
Jobber54-55
Metric.....55
Spade121

Carbide Tipped Drills
Bellhanger's.....108
Bowling Ball119
Die.....120
Extension Length109
Glass.....144
Hard Steel121, 137
Jobber Length52-53
Masonry136-159
Metric.....53
Pilot (Hole Saw).....339
Silver & Deming (Bowling Ball).....119
Taper Length85
Taper Shank100
Universal.....136

Cobalt Drills
Aircraft - Type D112A
Aircraft - Type J42-45
Aircraft Extension.....110-112
Combined Drill & Countersink.....114
Jobber Length42-43
Metric44-45
Screw Machine Length18-19
Silver & Deming.....73
Taper Length82-83
Taper Shank100

Cone Drills
Stepped/TiN118

Core Drills
3 & 4 Flute - Taper Length.....88
3 & 4 Flute - Taper Shank89
Percussion Core - Masonry140-141

Core Drills -->
Rotary Core - Masonry139
Diamond Coated.....119A
Die Drills

- D -

Carbide, Solid120
Carbide Tipped120

DRILLS -->
Drywall Cut Out Bits
1 & 2 Flute - HSS - TiN124
Carbide (Solid)124
Double End.....124

Extra Length
3/8" Shank.....106
1/2" Shank104-105
Bellhanger's107-108
Brad Point Countersink.....169A
Carbide Tip Bellhanger's108
Carbide Tip Extension109
Heavy Duty105-106
Metric104, 109
Oil Hole92
Sheeter17
Straight Shank/Sets103-106
Taper Shank.....101-102
Vent Drills107
Wood Bit - Spade Type166
Wood Drill - Brad Point169

Jobber's Length
3 Flat37B
Aircraft - Type A, B, J30-45
Auto Tang.....50-51
Carbide - 2 & 3 Flute54-55
Carbide - Metric.....55
Carbide - Solid.....54-55
Carbide Tipped52-53
Carbide Tipped - Metric53
Cobalt42
Cobalt - 3/8" Shank42
Cobalt - 3 Flat.....37B
Cobalt - 3 Flat - 3/8" Shank.....37B
Fast Spiral.....48-49
General Purpose.....20-25
Heavy Duty - Type A.....30-31
Heavy Duty - Type B33-41
Heavy Duty - Type J42-45
Heavy Duty - Hex Shank29
Hex Shank - 1/4" Shank29
Import Drill Set.....62
Left Hand / 3/8" Shank40
Metric / 3/8" - 1/2" Shank.....26-28
Metric - Heavy Duty / 3/8" Shank.....41-45
Micro.....24
Parabolic Flute / 3/8" Shank.....46-47
Plastic Laminate119
Slow Spiral.....48-49
Special Point.....56-57
TiN Coated20, 33-37
ZrN Coated20, 38-39
1/4" Shank - General Purpose21
3/8" Shank - General Purpose22
1/2" Shank - General Purpose22

Knockout Drills118

Masonry Drills
A - Taper.....154
B - Taper.....154
Bosch SDS147
Bosch SDS Hex146
Bosch Spline152
Core - Hammer141
Core - Rotary.....139
Fast Spiral142
Hammer.....145
Hilti TE-60.....149
Ramset - Magic Shank149
Tap Con146
Universal.....136

Masonry Drills -->
Wide Spiral143

Mechanics 4" Length - 1/4" Shank

- D -

General Purpose	21
Heavy Duty	34
DRILLS -->	
Metric Drills	
Aircraft Extension	112
Carbide	55
Carbide Tipped	53
Cobalt	44-45
Extension Length	109
Jobber Length	26-28, 41, 44-45
Long Boy	104
Screw Machine Length	16
Silver & Deming	70-71
Taper Length	82-83
Taper Shank	98-99
Multi-Angle Drills	133A
Pilot Drills	
Annular Cutter	126-127
Hole Saw	339
Masonry	139, 141
Plastic Laminate Drills	
Jobber Length	119
Mechanics Length - 1/4" Shank	119
3/8" Shank	119
Railroad Bonding Bits	
Cobalt	122
Head Style	122
Univ. Style	122
Web Style	122
Railroad Tie Boring Bit	123, 177
Railroad Track Bits	122
Reduced Shank Drills	
1/4" Shank - Jobber	21, 34
1/4" Shank - Mechanics	21, 34
1/4" Shank - Plastic Laminate	119
1/4" Shank - Screw Machine	12
3/8" Shank - Cobalt	42, 45
3/8" Shank - Jobber's	22, 25, 30, 35, 37
3/8" Shank - Long Boy Drill	106
3/8" Shank - Metric	28, 41, 45
3/8" Shank - Parabolic Flute	46
3/8" Shank - Plastic Laminate	119
3/8" Shank - Screw Machine	12
3/8" Shank - Silver & Deming	76-77
1/2" Shank - Jobber's	22, 35
1/2" Shank - Long Boy	104-105
1/2" Shank - Metric	28, 70-71
1/2" Shank - Screw Machine	11
1/2" Shank - Silver & Deming	69, 74
3/4" Shank - Silver & Deming	75
Screw Machine Length Drills	
Cobalt - Type F	18-19
Heavy Duty - Type C/TiN	10-14
Left Hand	15
Metric	16
Reduced Shank	12
Titanium Nitride Coated	10, 13
1/4" Shank	12
3/8" Shank	12
1/2" Shank	11
Sheeters Drills	
Double End	16
Rivet (Punch)	17
Single End	17
Single End - Long	17
Special Point Drills	56-57
Spotting & Centering Drills	113
Spot Weld Drills	124A
Step Drills	116-117, 183
Taper Length Drills	
Auto Tang	86-87
Carbide Tipped	85
Cobalt	82-83
Core - 3 & 4 Flute	88-89
Fast Spiral	87

- D -

General Purpose	78-81
Heavy Duty	84
DRILLS / Taper Length Drills -->	
Metric	80-81
Oil Hole	90
Parabolic Flute	84
Taper Point Drills	
Drill and Countersink Combination	172B
for Wood Screws	172A
Taper Shank Drills	
Carbide Tipped	100
Cobalt	100
Core - 3 & 4 Flute	89
Extra Length	101-102
General Purpose - Regular Shank	94-95, 98
General Purpose - Oversize Shank	97
General Purpose - Undersize Shank	96
General Purpose (metric)	99A-99B
General Purpose - Extra Length (metric)	102
Heavy Duty (metric)	98
Heavy Duty/TiN	99
Oil Hole	91
Oil Hole - Extra Long	92
Stub Length	97
Titanium Nitride Coated	94-95, 99
Threaded Shank Adapter Drills	
Type B Specifications	125A
Type D Specifications	125B
Torch Tip Cleaner Drills	125
Vent Drills	107
Wood Bits (Auger Bits)	
Forstner	168
Hinge Boring	167A
Multi Spur Pipe	168
Spade Type - Power	166-167
Wood Drills	
Brad Point	169, 169A
Brad Point Center	171B
Brad Point Countersink	169A
Brad Point Silver & Deming	169B
Perfect Point	170-171
Screw Point Pilot	168

- E -

END MILLS	
Corner Radius	
2 Flute - Single End	279
4 Flute - Single End	279
Corner Rounding	280
Double End - 2 Flute (Ball Nose)	
Carbide - Regular	270
Carbide - Metric - Stub	274
Carbide - Stub	271
Miniature	264
Regular Length	255
Double End - 2 Flute (Metric)	
Carbide - Stub	274
Carbide - Stub - Ball Nose	274
Regular Length	257
Double End - 2 Flute (Miniature)	
Ball Nose	264
Carbide - Stub	278
Long Length	265
Regular Length	265
Stub Length	278
Double End - 2 Flute (Square End)	
Carbide - Regular	270
Carbide - Metric - Stub	274
Carbide - Miniature - Stub	278
Carbide - Stub	271
Cobalt - Regular	266
Metric	257
Miniature - Long Length	265
Miniature - Regular Length	265

- E -

Regular Length.....255
Double End - 4 Flute (Ball Nose)
END MILLS -->
Carbide - Metric - Stub275
Carbide - Regular272
Carbide - Stub273
Double End - 4 Flute (Metric)
Carbide - Stub.....275
Carbide - Stub - Ball Nose.....275
Regular Length.....263
Double End - 4 Flute (Miniature)
Carbide - Stub.....278
Long Length265
Regular Length.....265
Double End - 4 Flute (Square End)
Carbide - Regular272
Carbide - Stub.....273
Carbide - Stub - Metric275
Carbide - Stub - Miniature278
Center Cutting.....262
Cobalt - Regular.....267
Metric.....263
Miniature - Long Length.....265
Miniature - Regular265
Regular Length.....260
Roughing End Mills
Carbide - Type "A"269
Carbide - Type "N"269
Carbide - Type "S"269
Cobalt268
Super (M2-AL)268
T-Slot Cutter281
Single End - 2 Flute (Ball Nose)
Carbide - Regular270
Carbide - Metric.....274
Cobalt - Regular.....267
Ext. Length256
Miniature - Regular264
Regular Length.....256
Single End -2 Flute (Metric)
Carbide - Regular274
Regular Length.....257
Single End - 2 Flute (Miniature)
Ball - Regular264
Carbide - Decimal Size.....278
Regular Length.....264
Single End - 2 Flute (Square End)
Aluminum - High Helix.....262
Aluminum - High Helix - Long.....262
Carbide - Extra Long271
Carbide - Long271
Carbide - Metric.....274
Carbide - Miniature - Decimal.....278
Carbide - Regular270
Cobalt Regular266
Single End - 2 Flute (Square End)
Ext. Length256
Long Flute254
Metric - Regular257
Miniature - Regular264
Regular Length.....254
Zirconium Nitride Coated262
Single End - 3 Flute (Ball Nose)
Carbide - Regular276
Carbide - Tapered.....277
Single End - 3 Flute (Square End)
Carbide - Regular276
Carbide - Tapered.....277
Single End - 4 Flute (Ball Nose)
Carbide - Metric.....275
Carbide - Regular272
Cobalt - Regular.....267
Long Flute260
Regular Length.....260
Single End - 4+ Flutes (Metric)

- E -

Carbide - Regular275
Regular Length.....263
END MILLS -->
Single End - 4+ Flutes (Miniature)
Carbide - Decimal Sizes278
Regular Length.....264
Single End - 4+ Flutes (Square End)
Carbide - Extra Long273
Carbide - Long273
Carbide - Metric.....275
Carbide - Miniature Decimal278
Carbide - Regular272
Center Cutting261
Cobalt - Long.....267
Cobalt - Regular.....267
Cobalt - Roughing268
Extra Long Flute259, 261
Long Flute259, 261
Metric - Regular263
Miniature - Regular264
Regular Length.....258
T-Slot Cutters Roughing281
Tapered End - 3 Flute
Ball Nose277
Square End.....277
END MILL SHARPENERS
Accessories286
Bench Top286
Deluxe286
EXTENSIONS
Hole Saw339
Power Bit.....173
Wood Bit.....167
EXTRACTORS (Screw Extractors)204-205

- F -

FILE ACCESSORIES
Curved Tooth File Holder.....359
File Card Cleaner359B
File Handles
for Chain Saw.....359
Plastic Slip-on Handle.....359B
Precision Chuck359
Safety File Handle (metal construction)358A
Solid Tang Hole (plastic)358B
Universal Tang Hole (plastic)358A
with Individual Inserts (plastic)358B
with Metal Ferrule (wood)358A
FILE SETS
American Pattern358
Needle361
Needle - Diamond Coated.....358
Rifflers - Rasp358
Swiss Pattern.....358, 360-361
FILES
American Pattern (Machinists' & Saw)
Aluminum Flat347
Aluminum Half Round.....347
Chain Saw355
Double End Saw355
Dual Cut Laminate352
Farmer's Own.....355
Flat Hand348
Flat Taper348A
Half Round349
Half Round (Pipe Line).....347
Knife.....351
Laminate.....352
Long Angle Lathe349A
Mill Laminate.....352
Rapid Cross Cut Laminate354
Round.....349A
Square350
Taper Saw - Double Extra Slim354

- F -

Taper Saw - Extra Slim	354
Taper Saw - Regular	354
FILES -->	
Taper Saw - Slim	354
Three Square (Triangle).....	350
Warding	351
Curved Tooth	
Flat	353
Flat Flexible	353
Thread Restoring	
External	359B
Universal	359B
Rasps	
Farrier	357
Four-in-Hand (Shoe)	357
Half Round Cabinet	356
Half Round Wood	356
Horse	357
Riffler	358
Round Wood	356
Swiss Pattern	
Half Round	360
Knife.....	360
Needle	361
Needle - Diamond Coated.....	358
Pillar - Regular	360
Rifflers - Die Sinkers	362
Rifflers - Rasp	358
Rifflers - Silversmiths.....	363
Round	360
Three Square	360
Warding	360
Tile	
Carbide Edged	343
Warding	360
Thread Restoring	359A
FLOATING DIE HOLDER	248
FORSTNER BITS	168

- G -

GIMLETS	172
----------------------	-----

- H -

HACK SAW BLADES	
Bi Metal.....	328
Carbide Edged	328
High Speed Steel	328
Power.....	330
HACK SAW FRAMES	
Close Quarter	329
High Tension	329
Junior	329
Tubular	329
HAMMER DRILLS (Masonry)	
HANSAWS	
Compass.....	327
Crosscut	327
Drywall	327
Drywall/Wallboard	327
PVC	327
Tool Box.....	327
HEX DIE ADAPTER	248
HEX RETHREADING DIES	
Left Hand	233
Metric.....	235
Pipe.....	233
Special Thread	234
Standard	233
HEXAGON DIES	
British Standard Pipe (Metric)	237
Metric.....	237
Pipe.....	237
Standard	237

- H -

HOLDERS	
Chuck Key	132
HOLDERS -->	
Cut Off Blade	317
Floating Die	248
Hex Die	248
Round Die	248
Turning Tool	317
HOLE SAW ACCESSORIES	
Driving Plates	339
Extensions	339
Mandrel (Arbor) Adapters	339
Mandrels (Arbors).....	338
Pilot Drills	339
Plug Ejecting Arbor	338
Plug Ejecting Arbor Adapter.....	338
HOLE SAW KITS	336-337, 340-341
HOLE SAWS	
Bi-Metal	336
Bi-Metal (metric)	336A
Bi-Metal with Arbor	337
Bi-Metal with Arbor (metric).....	337A
Carbide Edged	
D-Drive	342
Recessed Lighting	342
Standard	341
Tile	343
Carbide Tipped	340

- I -

IMPACT WRENCH AUGER BIT	176
INDEXABLE CUTTING TOOLS	
Boring Bar	293-294
Face Milling Cutters	300
Helical Shell End Mills	295
Long Edge End Mills.....	298
Mini Tool Holders / Set	294
Negative Rake End Mills.....	297
Positive Rake End Mills	296
Square Shoulder Milling Cutters	301
T-Slot Cutters	299
INSERTS (Carbide)	
APKT	295-296, 298, 300, 308
CCMT	293, 297, 299, 305
CNMG	306
CNMP	307
DCMT	308
DNMG	306
GTL	312
GTN	312
GTR	312
NG	311
NR	310
NT	310
NTP	310
RNMG	307
SCMT	308
SEC	303
SEKN	304
SNG	303
SNMG	306
SNU	303
SPC	304
SPG	302
SPU	302
TCMT	301, 308
TNMA-NG	312
TNMA-NV	309
TNMC-NG	312
TNMC-NV	309
TNMG	306
TNMP	307
TNU	303
TP	305

- I -

TPC	304
TPG	302
INSERTS (Carbide) -->	
TPMA-NV	309
TPMC-NV	309
TPMR	304
TPU	302
TT	(TCMM) 305
VNMG	307
WNMG	305
INTERCHANGEABLE COUNTERBORE PILOT	181
INTERCHANGEABLE COUNTERBORES	180

- J -

JIG SAW BLADES	326
JOBBER LENGTH DRILLS	20-28, 30-57

- K -

KEYS	
Chuck	132
Drill Drift	141

- L -

LEFT HAND	
Aircraft Extension Drills	110
Hex Rethreading Dies	233, 235
Jobber Length Drills	40
Round Adjustable Dies	227
Screw Machine Length Drills	15
Taps	207, 211

- M -

MACHINE COUNTERSINKS	185
MANDREL ADAPTERS	338
MANDRELS, HOLE SAW	338
MASONRY DRILLS	
A-Taper	154
B-Taper	154
Bosch SDS	147
Bosch SDS - Hex Tapcon	146
Bosch SDS - Max	150
Bosch SDS - Maxx	151
Bosch Spline	152
Bosch Spline - Crosshead	153
Carpet Stubby	144
Core - Hammer	141
Core - Rebar Cutter	138
Core - Rotary	139
Fast Spiral	142
Hammer	145
Hilti TE 60	149
K - Taper	154
Kango 637	159
Kango 950	159
Metric	144
Phillips 747	158
Ramset - Magic Shank	149
Rebar Cutter	138
Skil 706	157
Skil 717	157
Skil 726	156
Skil 728	156
Skil 736	158
Tapcon - Tang	146
Universal	136
Wide Spiral	143
Yankee (Push)	144
MECHANICS LENGTH DRILLS	21, 34
Dies	228, 235, 237
Drills	379
Pipe Taps	223-224

- M -

Taps	210-211, 213, 216, 218-219
MICRO DRILLS	24
MICRO PIN CHUCK	24
MICRO PIN VISE	24
MILLING CUTTERS (Shank)	
Concave	280
Convex	280
Corner Rounding	280
Die Sinking Cutters	277
Double Angle	284
Dovetail	
Cobalt	285
High Speed Steel	285
Single Angle	284
T-Slot	
Cobalt	281
Cobalt Roughing	281
High Speed Steel	281
Woodruff Key Seat	
Staggered Teeth	282
Straight Teeth	283
MORSE TAPER CHUCK ADAPTERS	93, 131
MULTI SPUR PIPE BIT	168

- N -

NEEDLE FILES	361
---------------------------	-----

- O -

OVERSIZE & UNDERSIZE REAMERS	191
OVERSIZE TAPS	207, 217

- P -

PILOT DRILLS	339
PIPE AUGER BITS	173
PIPE DIES	231, 233, 237
PIPE REAMERS	199
PIPE TAPS	222-224
PLASTIC LAMINATE DRILLS	119
PORTABLE BAND SAW BLADES	330
POWER BIT EXTENSION	173
PULLEY TAPS	219

- Q -

QUICK RELEASE ADAPTERS - SDS	148
---	-----

- R -

RAILROAD BONDING BITS	122
RAILROAD TIE BORING BITS	123
RASPS	
Farrier	357
Four-in-Hand (Shoe)	357
Half Round Wood	356
Half Round Cabinet	356
Horse	357
Round Wood	356
REAMERS	
Adjustable Hand Reamers	194
Bridge Reamers	
Helical Flute	200
Round Shank	200
Straight Flute	200
Car Reamers	
Hex Shank	199
Round Shank	198-199
Round Shank (Metric)	198A
Taper Shank	198
Chucking Reamers	
Carbide (Solid)	191
Carbide (Tipped)	190
Cobalt	190

- R -

Decimal Sizes191-192
Dowel Pin Sizes191
REAMERS / Chucking Reamers
Expansion193G
Extra Long193
Helical Flute188
Metric192
Over & Under Size191
Straight Flute188-189
Taper Shank193F
Sets193
Hand Adjustable194
Hand Expansion195
Hand Reamer196
Machine Reamers
Taper Shank - Extra Long193J
Taper Shank - Extra Long (metric)193K
Pipe Reamers
Spiral Flute196A
Straight Flute196A
Repairman's Taper Reamers187B
Shell Reamers
Arbors197
Helical Flute197
Straight Flute197
Silver & Deming
Helical Flute192A
Straight Flute192A
Taper Pin Reamer
Drill / Reamer201
Drill / Reamer (metric)201A
Helical Flute201
Spiral Flute201
Straight Flute201
Straight Flute (metric)201A
RECIPROCATING SAW BLADES324-325
RECTANGULAR TOOL BITS315
REDUCED SHANK DRILLS75-77
ROD SAW, CARBIDE EDGED326
ROD SAW FRAME326
ROUGHING END MILL, COBALT268
ROUGHING T-SLOT CUTTER, COBALT281
ROUND ADJUSTABLE DIES
Left Hand227
Metric227-229
Pipe231
Special Thread230
Standard226
ROUND DIE HOLDER
Floating248
Hand248
ROUND TOOL BITS315

- S -

SABER SAW BLADES320-323
SAW BLADES320-335
SCREW EXTRACTORS
Helical Flute204
Sets205
Straight Flute205
SCREW PITCH GAUGES
Fractional249
Metric249
SCREWDRIVER - DIE STOCK249
SDS SHANK QUICK RELEASE ADAPTERS148
SETS
Boring Bars - Carbide Tipped292
Bur370-371
Combined Drill & Countersink115
Die - Hex Rethreading236, 240
Die - Hex Rethreading NPT236
Drill - Jobber's60-67
Drill - Masonry136, 142, 147
Drill - Screw Machine14-15, 18

- S -

Drill - Silver & Deming70-71, 74
Drill - Taper Length81
SETS -->
Drill - 3/4" Shank76
Drill Blank59
File - American Pattern358
File - Needle358, 361
Hole Saw - Bi Metal336-337
Hole Saw - Carbide Edged341
Hole Saw - Carbide Tipped340
Reamer - Chucking193
Screw Extractor205
Tap - Carbon Hand241
Tap - HSS Hand241
Tap - Left Hand207
Tap - Metric210
Tap - Titanium Nitride Coated241
Tap & Die241-243, 245
Tap & Drill244
Wood Bit166-167, 169-171
SHEETERS DRILLS17
SHELL END MILLS - INDEXABLE295
SHIP AUGER BITS174-175
SILVER & DEMING DRILLS69-77
SLEEVES, MORSE TAPER93
SOCKETS, MORSE TAPER EXT93
SOLID CARBIDE
Burs364-371
Drills, Die120
Drills, Jobber54-55
Drills, Spade121
End Mills269-279
Reamers191
SPECIAL THREAD DIES
SPECIAL THREAD TAPS208-209
SPIRAL FLUTE TAPS220
SPIRAL POINT TAPS215-218
SPLINE SHANK MASONRY DRILLS152-153
SQUARE TOOL BITS315
STEPPED CONE DRILL118

- T -

T-HANDLE TAP WRENCHES247
T-SLOT CUTTER, ROUGHING281
TAP & HEX DIE SETS241-243
TAP & ROUND DIE SETS245
TAP & DRILL DISPENSER244
TAP & DRILL SETS244
TAP & HEX DIE SETS241-243
TAP DISPENSERS244
TAP EXTENSIONS224A
TAP GUIDE249
TAP SETS
Carbon Hand213, 241
HSS Hand206, 241
Left Hand207
Metric210
Thread Box and Tap Set251A
Titanium Nitride Coated241
TAP TREE215
TAP WRENCHES
Heavy Duty246
Offset Handle246
Straight246
T-Handle247
TAPER CHUCK ADAPTERS
TAPER LENGTH DRILLS78-90
TAPER PIN REAMERS
Helical Flute201
Spiral Flute201
Straight Flute201
TAPER SHANK DRILLS89-102
TAPPING & CUTTING FLUID249
TAPS

- T -

Acme Thread
Tandem Style221C

TAPS / Acme Thread -->
Tandem Style - Spiral Flute221D
Automotive Threading221A

Hand - Carbon
Metric.....213
Standard.....213

Hand - High Speed Steel
British Standard Hand212
Eight Pitch.....208
Left Hand Metric211
Left Hand/Sets207
Metric/Sets210
Metric - Special Thread211
Oversize.....207
(STI) Screw Thread Insert215
Special Thread209
Standard/Sets/TiN206
Ten Pitch.....208

Nut Taps219

Pipe Taps - Carbon
British Standard Taper (Metric)224
Regular Taper (NPT).....224

Pipe Taps - High Speed Steel
British Standard Parallel.....223
British Standard Taper223-224
Dryseal (NPTF) - TiN222
Interrupted Thread.....222-224
Left Hand223-224
Long Taper223
Metric (British Standard Taper)223
Regular Taper (NPT) - Solid Carbide.....217A
Regular Taper (NPT) - TiN222-224
Straight (NPS).....222-224

Pulley Taps
Metric.....219
Metric - Spiral Point.....218
Spiral Point.....218
Standard.....219

Special Taps225

Spiral Flute Taps
Cobalt (CNC)220
Fast Spiral220
High Performance.....217A
Regular Spiral.....220

Spiral Point
Chrome Plated216-216A
Cobalt (CNC)217
Extension.....217
High Performance.....217A
High Performance (6" length)217A
Metric - Pulley218
Metric/TiN216A
Oversize + .005217
Pulley218
(STI) Screw Thread Insert215
Standard/TiN216
Thread Forming.....221
Solid Carbide217B

THREAD GAUGE (Screw Pitch Gauge).....249

THREAD MILLS
Metric Thread250
NPT Pipe Thread251
Standard/Special Thread250

THREADING TOOLS
Internal Retreading Tool Sets.....359A
Threading Restoring Files359A

THREADLOCK PLUG GAUGE.....221B

TILE SAW BLADES.....343

TILE SAW FRAME.....343

TILE TOOLS
Tile File343
Tile Hole Saws343
Tile Saw Blades343

- T -

Tile Saw & Frame.....343

TITANIUM NITRIDE COATED
Burs365-371
Combined Drill & Countersink114, 182C
Drill - Cone118
Drill - Jobbers20, 33-37
Drill - Screw Machine.....10, 13
Drill - Silver & Deming.....69
Drill - Taper Shank66-67, 71
End Mills.....254-279
Tap - Hand206
Tap - Pipe222-224
Tap - Spiral Point216

TOOL BITS
Carbide Tipped314
Cobalt, 5%.....315
Rectangular315
Round315
Square.....315

TOOL & CUTTER GRINDER287

TOOL & CUTTER GRINDING FIXTURES287

TOOL HOLDERS
Cut-Off Blade317
Cut-Off & Grooving313
Mini294
Turning.....317

- V -

VENT DRILLS (extra length)107

WISE, MICRO PIN.....24

VALVE CORE TOOL.....251B

- W -

WOOD BITS
Curved Hole Wiring167
Forstner168
Keyhole Slot Router.....177A
Lockhead Adjustable.....166B
Mortise Bits - Bi-Directional.....177A
Multi Spur Pipe168B
Railroad Tie Boring177
Spade Type.....166
Vix Bits177B

WOOD DRILLS
Brad Point.....169
Perfect Point®170-171

WOOD PLUG CUTTERS - Claw Type172B

WRENCHES, TAP
Heavy Duty246
Offset Handle246
Ratchet247
Straight246
T-Handle.....247
3/8" Square Drive.....247

- Z -

ZIRCONIUM NITRIDE COATED
Bur - NF364
Drill - Jobbers20, 38-39
End Mill - Aluminum.....262