

MAINTENANCE KITS



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HITCH PINS



Reusable, quick release pins for fast assembly and disassembly. Made of spring steel to maintain tension.

Contents:

| | | |
|----|-------|-----|
| 60 | 1/16" | #18 |
| 30 | 3/32" | # 3 |
| 20 | 3/32" | # 7 |
| 20 | 1/8" | #16 |
| 15 | 5/32" | #10 |
| 5 | 3/16" | # 6 |

150 total pieces
UPC No. 12915

ROLL PINS



Made of flexible spring steel, cold rolled, hardened and tempered. Chamfered ends simplify insertion.

Contents:

1/16", 5/64", 3/32", 1/8", 5/32", 3/16",
7/32", 1/4", 5/16" & 3/8" diameters.

Four (4) lengths included for each diameter.

300 total pieces
UPC No. 12925

METRIC ROLL PINS

NEW



Made of flexible spring steel, cold rolled, hardened and tempered. Chamfered ends simplify insertion. All sizes in millimeters.

Contents:

| | | | |
|-----------|--------|--------|---------|
| 10 1.5x6 | 8 3x24 | 8 5x18 | 5 8x20 |
| 10 1.5x10 | 8 3x30 | 8 5x26 | 5 8x30 |
| 10 1.5x12 | 8 3x40 | 8 5x30 | 5 8x40 |
| 10 1.5x20 | 7 4x10 | 8 5x40 | 5 8x50 |
| 10 2x6 | 7 4x18 | 8 5x50 | 5 8x65 |
| 10 2x10 | 7 4x22 | 7 6x20 | 5 10x40 |
| 10 2x12 | 7 4x26 | 7 6x24 | 3 10x45 |
| 10 2x20 | 7 4x30 | 7 6x30 | 3 10x50 |
| 8 3x10 | 7 4x40 | 7 6x40 | 3 10x65 |
| 8 3x18 | 8 5x14 | 7 6x50 | 3 10x80 |

**287 total pieces
UPC No. 12960**

NEW

CLEVIS PINS



Pins are made from cold formed 1008 to 1018 low carbon steel. Plated finish extends life and chamfered hole allows for easy insertion.

Contents:

| | | |
|-----------------|------------------|------------------|
| 6 3/16" x 1" | 3 1/4" x 2-1/2" | 2 5/16" x 2-1/2" |
| 7 1/4" x 1" | 6 5/16" x 1" | 2 5/16" x 2-3/4" |
| 4 1/4" x 1-1/4" | 4 5/16" x 1-1/4" | 5 3/8" x 1" |
| 7 1/4" x 1-1/2" | 5 5/16" x 1-1/2" | 4 3/8" x 1-1/2" |
| 4 1/4" x 1-3/4" | 4 5/16" x 1-3/4" | 2 3/8" x 2" |
| 6 1/4" x 2" | 3 5/16" x 2" | 2 1/2" x 1-1/2" |
| 3 1/4" x 2-1/4" | 2 5/16" x 2-1/4" | 2 1/2" x 2" |

83 total pieces
UPC No. 13965

COTTER PINS



Strong and flexible plated steel pins with one prong extended for easy insertion and bending. Pins also have chisel point ends.

Contents:

| | |
|-----|----------------|
| 130 | 1/16" x 1" |
| 100 | 1/8" x 1 1/4" |
| 80 | 1/8" x 2" |
| 150 | 3/32" x 1" |
| 100 | 3/32" x 1 3/4" |
| 40 | 5/32" x 2 1/2" |

600 total pieces
UPC No. 12905

TAPER PINS



Made from 1215 and 12L14 steel. These pins are mainly used for hole alignment in maintenance machinery. They are tapered 1/4" per foot.

Contents:

| | | | |
|---------------|---------------|---------------|---------------|
| 2 #0 x 3/4" | 2 #2 x 1" | 2 #3 x 2-1/2" | 3 #5 x 1-3/4" |
| 2 #0 x 1" | 3 #2 x 1-1/4" | 2 #3 x 2-3/4" | 2 #5 x 2" |
| 3 #0 x 1-1/4" | 3 #2 x 1-1/2" | 1 #3 x 3" | 1 #5 x 2-1/4" |
| 3 #0 x 1-1/2" | 2 #2 x 1-3/4" | 2 #4 x 1" | 1 #5 x 2-1/2" |
| 2 #0 x 1-3/4" | 3 #2 x 2" | 2 #4 x 1-1/4" | 1 #5 x 2-3/4" |
| 2 #1 x 3/4" | 2 #2 x 2-1/4" | 3 #4 x 1-1/2" | 1 #5 x 3" |
| 3 #1 x 1" | 3 #3 x 1" | 3 #4 x 1-3/4" | 2 #6 x 1-1/2" |
| 3 #1 x 1-1/4" | 3 #3 x 1-1/4" | 1 #4 x 2" | 2 #6 x 1-3/4" |
| 3 #1 x 1-1/2" | 3 #3 x 1-1/2" | 1 #4 x 2-1/4" | 2 #6 x 2" |
| 2 #1 x 1-3/4" | 3 #3 x 1-3/4" | 1 #4 x 2-3/4" | 1 #6 x 2-1/4" |
| 2 #1 x 2" | 3 #3 x 2" | 1 #4 x 3" | 1 #6 x 2-3/4" |
| 2 #2 x 3/4" | 2 #3 x 2-1/4" | 2 #5 x 1-1/2" | 1 #6 x 3" |

100 total pieces
UPC No. 12907

WOODRUFF KEYS



Precise, zinc plated steel keys used for pulleys and drive shaft applications.

Contents:

| | | |
|-----------------|-----------------|-----------------|
| 10 1/16" x 3/8" | 20 1/8" x 1/2" | 5 3/16" x 5/8" |
| 10 1/16" x 1/2" | 30 1/8" x 5/8" | 20 3/16" x 3/4" |
| 20 3/32" x 3/8" | 20 1/8" x 3/4" | 5 3/16" x 7/8" |
| 20 3/32" x 1/2" | 40 5/32" x 5/8" | 5 7/32" x 7/8" |
| 10 3/32" x 5/8" | 10 5/32" x 3/4" | 5 1/4" x 3/4" |
| 10 1/8" x 3/8" | 5 5/32" x 7/8" | 5 1/4" x 7/8" |

250 total pieces
UPC No. 12940

STAINLESS WOODRUFF KEYS



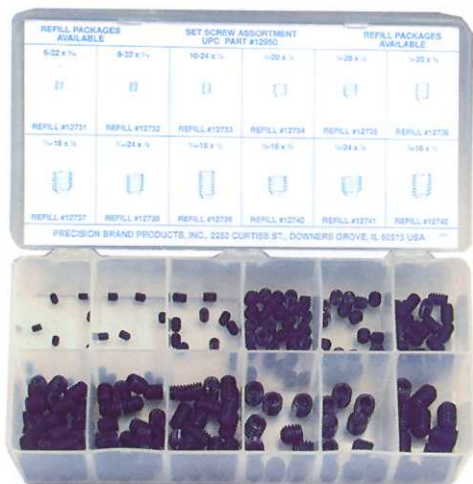
Precise, 316 stainless steel keys used for pulley and drive shaft applications where corrosion resistance is a factor.

Contents:

| | |
|----------------|----------------|
| 5 1/16" x 3/8" | 4 3/16" x 5/8" |
| 5 3/32" x 3/8" | 4 1/8" x 3/4" |
| 5 1/8" x 3/8" | 4 5/32" x 3/4" |
| 5 1/16" x 1/2" | 4 3/16" x 3/4" |
| 5 3/32" x 1/2" | 4 1/4" x 3/4" |
| 5 1/8" x 1/2" | 3 3/16" x 7/8" |
| 4 1/8" x 5/8" | 3 1/4" x 7/8" |
| 4 5/32" x 5/8" | 2 1/2" x 1" |

66 total pieces
UPC No. 13970

SET SCREWS



Alloy steel set screws with hexagon recessed heads. Ends have cup points for positive torque.

Contents:

| | | | |
|----|----------------|----|-----------------|
| 10 | 6-32 x 3/16" | 30 | 5/16"-18 x 3/8" |
| 10 | 8-32 x 3/16" | 20 | 5/16"-24 x 3/8" |
| 10 | 10-24 x 1/4" | 20 | 5/16"-18 x 1/2" |
| 30 | 1/4"-20 x 1/4" | 10 | 3/8"-16 x 3/8" |
| 20 | 1/4"-28 x 1/4" | 10 | 3/8"-24 x 3/8" |
| 20 | 1/4"-20 x 3/8" | 10 | 3/8"-16 x 1/2" |

**200 total pieces
UPC No. 12950**

METRIC SET SCREWS



These alloy steel, metric set screws have hexagon recessed heads. Ends have cup points for positive torque.

Contents:

| | |
|----------------------|-----------------------|
| 25 M3 x 0.5mm x 3mm | 25 M5 x 0.8mm x 12mm |
| 25 M3 x 0.5mm x 6mm | 25 M6 x 1.0mm x 6mm |
| 25 M3 x 0.5mm x 10mm | 25 M6 x 1.0mm x 8mm |
| 25 M4 x 0.7mm x 4mm | 25 M6 x 1.0mm x 10mm |
| 25 M4 x 0.7mm x 6mm | 25 M8 x 1.25mm x 8mm |
| 25 M4 x 0.7mm x 10mm | 25 M8 x 1.25mm x 12mm |
| 25 M5 x 0.8mm x 5mm | 25 M8 x 1.25mm x 16mm |
| 25 M5 x 0.8mm x 8mm | |

**375 total pieces
UPC No. 12975**

SOCKET HEAD CAP SCREWS



These alloy steel socket head screws have hexagon recessed heads.

Contents:

| | |
|-----------------|--------------------|
| 10 6-32 x 1/2" | 10 1/4-20 x 1/2" |
| 10 6-32 x 1" | 10 1/4-20 x 3/4" |
| 10 8-32 x 1/2" | 10 1/4-20 x 1" |
| 10 8-32 x 3/4" | 10 1/4-20 x 1 1/4" |
| 10 8-32 x 1" | 10 1/4-20 x 1 1/2" |
| 10 10-32 x 1/2" | 10 1/4-28 x 3/4" |
| 10 10-32 x 3/4" | 10 1/4-28 x 1" |
| 10 10-32 x 1" | 10 1/4-28 x 1 1/4" |
| 10 10-24 x 1/2" | 10 1/4-28 x 1 1/2" |
| 10 10-24 x 1" | |

190 total pieces
UPC No. 12970

METRIC SOCKET HEAD CAP SCREWS



These alloy steel metric cap screws have hexagon recessed heads.

Contents:

- | | |
|----------------------|-----------------------|
| 25 M4 x 0.7mm x 10mm | 10 M6 x 1.0mm x 20mm |
| 25 M4 x 0.7mm x 12mm | 10 M6 x 1.0mm x 25mm |
| 25 M4 x 0.7mm x 20mm | 10 M6 x 1.0mm x 30mm |
| 25 M4 x 0.7mm x 25mm | 10 M6 x 1.0mm x 40mm |
| 25 M5 x 0.8mm x 12mm | 10 M8 x 1.25mm x 20mm |
| 25 M5 x 0.8mm x 20mm | 10 M8 x 1.25mm x 25mm |
| 10 M5 x 0.8mm x 25mm | 10 M8 x 1.25mm x 30mm |
| 10 M5 x 0.8mm x 30mm | 3 M8 x 1.25mm x 40mm |
| 10 M6 x 1.0mm x 12mm | 2 M8 x 1.25mm x 45mm |

255 total pieces
UPC No. 12980

PLASTIC HOSE CLAMPS



These clamps are heat stabilized for motor applications, lightweight and corrosion resistant.

Contents:

| | |
|--------------------|---------------------|
| 12 - .228" x .256" | 10 - .702" x .801" |
| 12 - .307" x .342" | 10 - .779" x .899" |
| 12 - .351" x .394" | 8 - .859" x .989" |
| 12 - .404" x .452" | 8 - .928" x 1.072" |
| 12 - .449" x .511" | 6 - .985" x 1.135" |
| 12 - .513" x .586" | 6 - 1.123" x 1.296" |
| 10 - .569" x .650" | 6 - 1.218" x 1.405" |
| 10 - .616" x .707" | |

146 total pieces
UPC No. 12965

E CLIPS



External clips, made of plated spring carbon steel to retain positive retention of pulleys, sprockets, springs and bearings on shafts and rods.

Contents:

| | | | | | |
|----|-------|----|-------|----|------|
| 30 | 1/8" | 30 | 1/4" | 20 | 1/2" |
| 20 | 5/32" | 30 | 5/16" | 15 | 5/8" |
| 30 | 3/16" | 30 | 3/8" | 10 | 3/4" |
| 20 | 7/32" | 25 | 7/16" | 5 | 7/8" |

265 total pieces
UPC No. 12910

METRIC E CLIPS

NEW



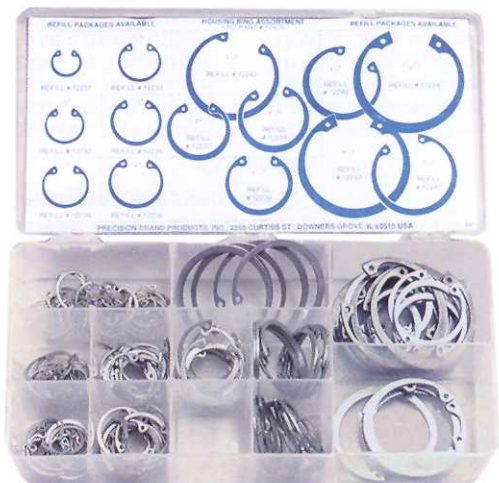
External metric size clips, made of spring steel with a black phosphate finish, retain positive retention of pulleys, sprockets, springs and bearings on shafts and rods. Meets DIN 6799.

Contents:

| | | | | | |
|----|-------|----|------|----|------|
| 35 | 1.2mm | 15 | 5mm | 10 | 12mm |
| 30 | 1.5mm | 15 | 6mm | 15 | 15mm |
| 30 | 1.9mm | 10 | 7mm | 5 | 19mm |
| 25 | 2.3mm | 10 | 8mm | 5 | 24mm |
| 20 | 3.2mm | 10 | 9mm | | |
| 15 | 4.0mm | 5 | 10mm | | |

**255 total pieces
UPC No. 13990**

HOUSING RINGS



Internal rings made from zinc plated spring steel have tapered design which maintains constant pressure to prevent slippage of axles, gears and bearings inside machinery housing.

Contents:

| | | | | | |
|----|--------|----|---------|--------|--------|
| 15 | 1/2" | | 10 | 1 1/4" | |
| 15 | 5/8" | 15 | 7/8" | 5 | 1 3/8" |
| 15 | 11/16" | 10 | 1" | 5 | 1 1/2" |
| 15 | 3/4" | 10 | 1 1/16" | 5 | 1 5/8" |
| 15 | 13/16" | 10 | 1 1/8" | 5 | 1 3/4" |

150 total pieces
UPC No. 12920

METRIC HOUSING RINGS



Internal, metric size rings made from spring steel with black phosphate finish have tapered design to maintain constant pressure to prevent slippage of axles, gears and bearings inside machinery housing. Meets DIN 472.

Contents:

| | | |
|---------|---------|--------|
| 20 10mm | 10 19mm | 8 30mm |
| 15 11mm | 12 20mm | 8 32mm |
| 20 12mm | 10 22mm | 5 35mm |
| 18 14mm | 10 24mm | 3 36mm |
| 15 15mm | 8 25mm | 3 37mm |
| 18 16mm | 5 26mm | 5 38mm |
| 12 18mm | 8 28mm | 5 40mm |

NEW

218 total pieces
UPC No. 13985

SNAP RINGS



External, spring steel snap rings used to retain pulleys, gears or wheels on shafts.

Contents:

| | | | |
|----|-------|----|--------|
| 30 | 1/4" | 30 | 5/8" |
| 20 | 5/16" | 35 | 3/4" |
| 50 | 3/8" | 10 | 13/16" |
| 20 | 7/16" | 20 | 7/8" |
| 50 | 1/2" | 10 | 1" |
| 20 | 9/16" | 5 | 1 1/4" |

300 total pieces
UPC No. 12900

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METRIC SNAP RINGS



External, black phosphate coated, metric size spring steel snap rings used to retain pulleys, gears or wheels on shafts. Meets DIN 471.

Contents:

| | | | | | |
|----|------|----|------|----|------|
| 25 | 6mm | 15 | 15mm | 10 | 24mm |
| 20 | 8mm | 20 | 16mm | 10 | 25mm |
| 15 | 9mm | 10 | 17mm | 5 | 28mm |
| 20 | 10mm | 15 | 18mm | 5 | 30mm |
| 20 | 11mm | 10 | 19mm | 5 | 32mm |
| 20 | 12mm | 15 | 20mm | 5 | 35mm |
| 10 | 13mm | 10 | 21mm | | |
| 20 | 14mm | 10 | 22mm | | |

295 total pieces
UPC No. 13980

NEW

RETAINING RINGS



Similar to housing rings, these external, zinc plated, spring steel rings accommodate components with large chamfers and radii.

Contents:

| | | | |
|----|--------|----|--------|
| 20 | 1/2" | 15 | 3/4" |
| 20 | 9/16" | 10 | 7/8" |
| 20 | 19/32" | 10 | 1" |
| 20 | 5/8" | 10 | 1 1/4" |
| 15 | 11/16" | | |

140 total pieces
UPC No. 12935

O RINGS



Made of BUNA-N 70 durometer rubber compound. Creates a tight seal for fluid or gas connections.

140 pcs. - 1/16" body:

3/32 x 7/32 #005
 1/8 x 1/4 #006
 5/32 x 9/32 #007
 3/16 x 5/16 #008
 7/32 x 11/32 #009
 1/4 x 3/8 #010
 5/16 x 7/16 #011
 3/8 x 1/2 #012

Contents:

80 pcs. - 3/32" body:

3/8 x 9/16 #110
 7/16 x 5/8 #111
 1/2 x 11/16 #112
 9/16 x 3/4 #113
 5/8 x 13/16 #114
 11/16 x 7/8 #115

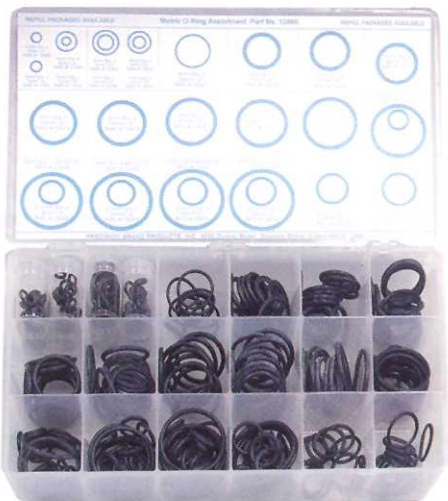
80 pcs. - 1/8" body:

3/4 x 1 #210
 13/16 x 1 1/16 #211
 7/8 x 1 1/8 #212
 15/16 x 1 3/16 #213
 1 x 1 1/4 #214
 1 1/16 x 1 5/16 #215
 1 1/8 x 1 3/8 #216
 1 1/4 x 1 1/2 #218
 1 3/8 x 1 5/8 #220
 1 1/2 x 1 3/4 #222

**300 total pieces
 UPC No. 12930**

NEW

METRIC O RINGS



Made of BUNA-N 70 durometer rubber compound these metric size rings create a tight seal for fluid and gas connections.

2mm body:

- 15 3mm I.D.
- 15 4mm I.D.
- 15 5mm I.D.
- 15 6mm I.D.
- 15 8mm I.D.
- 15 10mm I.D.
- 15 12mm I.D.
- 10 14mm I.D.
- 10 20mm I.D.

Contents:

2.5mm body:

- 15 10mm I.D.
- 15 12mm I.D.
- 15 14mm I.D.
- 15 15mm I.D.
- 15 16mm I.D.
- 10 17mm I.D.
- 10 19mm I.D.

3mm body:

- 15 19mm I.D.
- 15 20mm I.D.
- 15 22mm I.D.
- 15 24mm I.D.
- 10 25mm I.D.
- 10 27mm I.D.
- 10 28mm I.D.
- 10 30mm I.D.
- 10 32mm I.D.
- 5 33mm I.D.
- 5 35mm I.D.
- 5 36mm I.D.
- 5 38mm I.D.

**350 total pieces
UPC No. 13995**

MACHINERY KEYS



Zinc plated steel, square keys have chamfered ends for easy insertion into keyways.

Contents:

- | | |
|--------------------------|--------------------------|
| 3 1/8" x 1/8" x 3/4" | 5 1/4" x 1/4" x 1 1/2" |
| 3 1/8" x 1/8" x 1" | 5 5/16" x 5/16" x 1 1/4" |
| 5 3/16" x 3/16" x 3/4" | 5 5/16" x 5/16" x 1 1/2" |
| 5 3/16" x 3/16" x 1" | 5 3/8" x 3/8" x 1 1/4" |
| 5 3/16" x 3/16" x 1 1/4" | 5 3/8" x 3/8" x 1 1/2" |
| 5 1/4" x 1/4" x 3/4" | 2 1/2" x 1/2" x 1 1/2" |
| 5 1/4" x 1/4" x 1 1/4" | |

58 total pieces
UPC No. 12955

GREASE FITTINGS



These push type, plated fittings permit lubricant to flow while built-in ball, under spring pressure, prevents dirt from entering.

Contents:

- 30 1/4" 28-Straight
- 10 1/4" 28-45°
- 10 1/4" 28-90°
- 30 1/8" NPT-Straight
- 5 1/8" NPT-45°
- 5 1/8" NPT-90°

90 total pieces
UPC No. 12945

METRIC GREASE FITTINGS

NEW



These metric size push type plated fittings permit lubricant to flow while built-in ball, under spring pressure, prevents dirt from entering.

Contents:

- 20 6mm x 1mm x Straight
- 10 6mm x 1mm x 45°
- 10 6mm x 1mm x 90°
- 20 8mm x 1mm x Straight
- 10 8mm x 1mm x 45°
- 10 8mm x 1mm x 90°
- 5 10mm x 1mm x Straight
- 5 10mm x 1mm x 45°
- 5 10mm x 1mm x 90°

95 total pieces
UPC No. 13975

ELECTRICAL TERMINALS



High quality, *American made* terminals and connectors for industrial and automotive applications.

Contents:

- 30 Butt Connectors
- 20 Insulated Quick Slide Terminals
- 20 Non-insulated Quick Slide Terminals
- 5 Self-Splicing Connectors
- 40 Spade Terminals
- 60 Ring Terminals

**175 total pieces
UPC No. 12985**

DOWEL PINS



Made from alloy steel, these pins have a plain finish and are used to retain parts in a fixed position or to preserve alignment when extreme accuracy is required.

Contents:

| | | |
|------------------|-----------------|------------------|
| 8 1/16" x 3/4" | 6 1/4" x 1/2" | 6 5/16" x 1-1/4" |
| 6 1/8" x 3/8" | 6 1/4" x 5/8" | 6 5/16" x 1-1/2" |
| 10 1/8" x 1/2" | 10 1/4" x 3/4" | 4 5/16" x 2" |
| 6 1/8" x 3/4" | 10 1/4" x 1" | 10 3/8" x 1" |
| 6 1/8" x 1" | 8 1/4" x 1-1/4" | 6 3/8" x 1-1/4" |
| 8 3/16" x 1/2" | 6 1/4" x 1-1/2" | 8 3/8" x 1-1/2" |
| 6 3/16" x 3/4" | 6 5/16" x 3/4" | 6 3/8" x 2" |
| 8 3/16" x 1" | 8 5/16" x 1" | 4 1/2" x 1-1/2" |
| 4 3/16" x 1-1/2" | | 4 1/2" x 2" |

176 total pieces
UPC No. 12912



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