

UNITED Custom Kits

Call **UNITED** for your
Kit requirements.

We specialize in
customizing your Kits!

**UNITED Kits, Cases
and Custom Sets**



KIT STYLES Pg T2-T3



TEST FIXTURE KIT Pg T4



UNIVERSAL SWIVEL KIT Pg T9



SUPER POWER FEED KIT Pg T5



FEED & SPEED KIT Pg T11



SPACEMATIC KIT Pg T6



ADJ. DRILL BARS KIT Pg T7



DRILL BARS KIT Pg T12



PIGGY-BACK KIT Pg T13



SWIVEL DRILL BARS KIT Pg T14



ALIGNMENT BUSHING KIT Pg T15

**UNITED's
Super Kit Cases**

Compact Kit Assortment

SIX IN ONE — RUGGED, CONVENIENT, MOBILE, PREFERRED
MASTER CASE ASSEMBLY
UTK-268002-311

CUSTOM FITTED to PERFORM the ENTIRE JOB!

These thermoformed High-density, High-strength Polyethylene cases feature a ribbed design capable of absorbing multiple impacts without shock to delicate instruments and tools.

UNITED's Military and Commercial Cases contain a unique lateral Stacking design utilizing a formed 'Rib-I' Stack feature that adds strength and protection for non-slip locking.

HEAVY DUTY CASES CAN BE MODIFIED TO MEET THE REQUIREMENTS OF MIL-C-4150 AND MIL-STD-810.

Rib-I stacking features on all Cases



UTK-268002-311

Master Case Style Kit Holds Six-in-One

28" L x 28" W x 22" H

Inside dimensions are shown for all cases.

24" L x 24" W x 5-3/4" H

15" L x 10" W x 8" H

18" L x 13" W x 8" H

15" L x 10" W x 5" H

12" L x 9" W x 8" H

15" L x 10" W x 8" H

UNITED STANDARD CASES FEATURE:

**CALL OR FAX
UNITED FOR
FURTHER
DETAILS.**

1. Heavy Duty Hinges
2. Strong Lid Stays
3. Your logo molded in top of case
4. Aluminum Valance edge extrusion available with neoprene gasket
5. Heavy Duty removable casters
6. Thirty standard sizes from 8-3/4" x 12" to 25" x 48" with heights to 24"
7. 4 lb. Polyethylene foam inserts die or hot wire cut for exact tool or instrument fit
8. Self-Retracting bail type handles with rubber or padded leather grips
9. Anodized aluminum ID nameplate on outside lid Inside plate lists contents
10. Commercial or MIL packed to STD-2073-Level A
11. Waterproof sealed inside heavy duty crates
12. Rib-I stacking feature

Military, Commercial Tool Transit Cases

POLYETHYLENE, ABS, POLYCARBONATE
THERMOFORMING QUALITY CASES

UNITED REPRESENTS HIGH DENSITY POLYETHYLENE CASES, FEATURING RIBBED DESIGNS CAPABLE OF ABSORBING MULTIPLE IMPACTS WITHOUT SHOCK TO DELICATE INSTRUMENTS. THESE QUALITY CASES CONTAIN A UNIQUE LATERAL RIB-I STACKING FEATURE AND RUBBER MOLDED BUMPERS FOR ADDED STRENGTH AND PROTECTION.



Tool Transit Cases

Rib-I Stacker Design



Rib-I
Stacker
Cases Fit
Securely
Together
When
Stacked

Bumper
Optional

UNITED IS NOW A FORERUNNER IN TOOLING FOAM INSERT DESIGNS. THESE CASES ARE BUILT ON QUALITY AND SERVICE. SIZES AND STYLES ARE EVER EXPANDING! FABRICATION OF POLYETHYLENE, POLYURETHANE AND POLYSTYRENE FOAMS.

UNITED SUPPLIES KEYED LATCHES UNLESS OTHERWISE SPECIFIED. HEAVY DUTY CASES CAN BE MODIFIED TO MEET THE REQUIREMENTS OF MIL-C-4150 AND MIL-STD-810.



Self retracting handles with rubber grips



Heavy duty removable casters



Quarter-turn latch with pressurized clamping

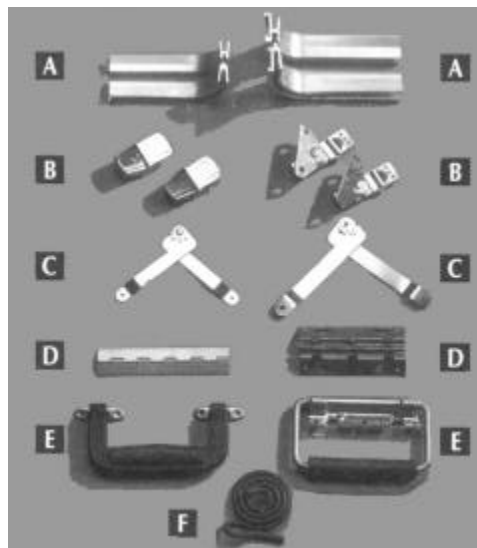


Capable of providing cases 24" deep for each lid for 48" total depth with overall dimensions of 54" x 82."

UNITED LASTING LATCH HARDWARE FEATURES

LIGHT DUTY CASES

A UCC-110100	1" VALANCE
B UCC-111402	NICKEL LATCH
C UCC-112737	7" LID STAY
D UCC-111001	1" HINGE
E UCC-11165B	BLACK PLASTIC HANDLE
PLASTIC	HDPE OR HMWPE .156 OR .200



CALL OR FAX UNITED TO SIZE YOUR CASES OR FOR FURTHER INFORMATION.

HEAVY DUTY CASES

A UCC-11A200	2" VALANCE
B UCC-112044	LINKLOCK LATCH
C UCC-112759	9" LID STAY
D UCC-110323	2" HINGE
E UCC-110106	BAIL HANDLE
F UCC-112000	TUBING - O RING
PLASTIC	HMWPE BLUE .25 TO .35

Drill Test Fixture

Drilling Kit Test Fixture

UNITED PROVIDES COMPLETE DRILLING TEST FIXTURES WITH COUPONS TO DRILL, REAM, BORE TEST PRIOR TO ACTUAL REPAIR.

A COMMERCIAL SETUP AND TEST FIXTURE

UTK-268002-25 KIT

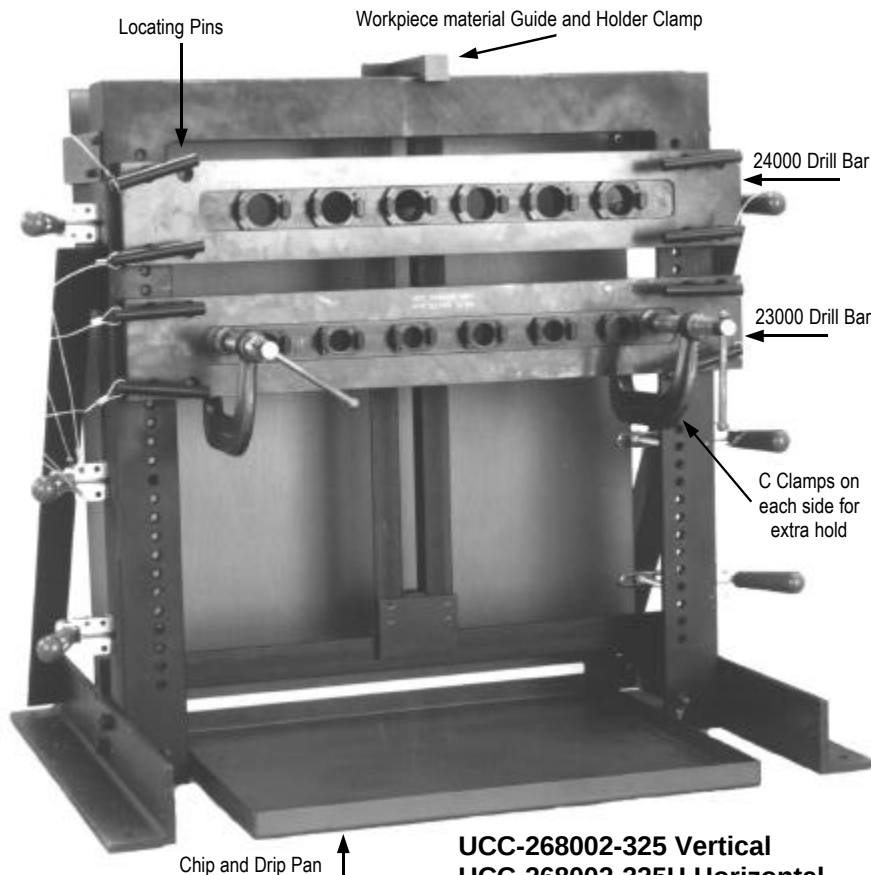
Complete Drilling Test Fixture with coupons to Drill, Ream, Bore, Countersink, Counterbore and Drill Preliminary Holes prior to the actual repair, modification or retrofit on the actual aircraft, assembly or work piece.

The Test Fixture includes two complete Drill Bars for alignment and clamping of Power Tools. It contains six Toggle Clamps to hold the Test Coupons and two C-Clamps to clamp the coupons firmly to the test bars. Added are Locators, the Chip and Coolant Collection Pan. This specific fixture has twenty Test Coupons to drill, ream, and countersink.

Rib-I
Stacker
Case



Rugged Rib-I Case
UCC-268002-350 is
36" L x 36" W x 36" H.
Fixture is 28" L x 28" W
x 24" deep.



This fixture is provided with two complete Drill Bars of your choice containing Helical Nurlock Liner Bushings. **UNITED** Helical Nurlock Liners and Adapters Tips are available in all sizes in the 21000, 22000, 23000, 24000, 25000, 26000, 27000, 28000, 29000 and 30000 Series.

The Fixture will hold five drill bars. **UNITED** will provide on request 5 Bars 21000, 22000, 23000, 24000 and 25000 Series with slipfit sleeves to accommodate all Nurlock Adapter Tip Shank O.D. sizes.

The Fixture shown was mounted vertically and supplied with coupon sandwiches of steel aluminum, titanium and composite materials.

Call or Fax **UNITED** for further details.

Drilling Test Fixture is mounted vertically or horizontally. For horizontal, add 'H' to Part No.

Super Power Feed Kit

PIGGY BACK MOTOR, COOLANT NOSE PIECES
AND ACCESSORIES

**UNITED Super
Power Feed Kit**

UTK-268002-15 KIT

UNITED Coolant Nosepieces and Coolant Adapters provide the Piggyback Motor with the ability to Drill, Ream, Countersink and Counterbore. The Nurlock Coolant Adapter Series A11000, A12000, A13000, A14000 and A15000 will accommodate cutting tool diameters from 1/16" thru 1-3/16".

Case UCC 268002-145 is
24² L x 18² W x 16² H inside.



THE UNITED SUPER POWER FEED KIT UTK-268002-15



KIT CONTENTS

- | | | |
|--------------------------------------|---------------------------------------|--|
| 1. UCC-268002-132 Drill Motor | 6. UDB-849121 Chuck Key | 11. UDB-621238-NCS Nosepiece Assembly |
| 2. UDB-731302-1/4 1/2" Chuck Adapter | 7. UDB-615720 Stroke Stop | 12. UDB-612043-C Nosepiece Assembly |
| 3. UDB-619405 #2 Morse Taper Adapter | 8. UDB-621235-NCS Nosepiece Assembly | 13. UDB-619402-C Nosepiece Assembly |
| 4. UDB-619406 #3 Morse Taper Adapter | 9. UDB-621236-NCS Nosepiece Assembly | 14. UCC-268002-354 Male Air Fitting |
| 5. UDB-849415JC 1/2" Drill Chuck | 10. UDB-621237-NCS Nosepiece Assembly | 15. UCC-268002-145 Case Assembly with Foam |

**UNITED Spacematic
Kit with Depth Control**

United Spacematic Kit

UTK-268002-20 SPACEMATIC and UDB-755200 HS-2 SENSOR



Rib-I
Stacker
Case

**UNITED CASE UCC-268002-169 is
32" L x 22" W x 16" H inside
RUGGED RIB-I STACK STYLE CASE**

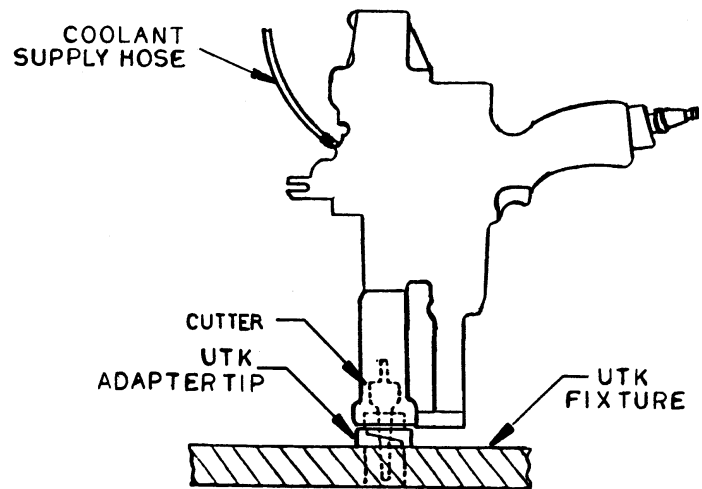


**UCC-268002-168 Spacematic
Motor with UDB-755200 HS-2
Depth Sensor**

UTK-268002-20 KIT

**With Spacematic Depth Control for Drilling
and Reaming, Taper Locks, Countersinking
and Counterboring**

Typical Set Up for Spacematic Drill Motor
with Spacematic Sensor and *UNITED*'s
Coolant Nurlock Adapter Tips and Depth
Sensor—Ideal for tapered holes and
countersinking. Lightweight and fast!



This proven HS-2E-280-2.0 Drill
Motor combined with *UNITED*
Drill Bars assures 90° holes to
surface relationships. Ideal for
close tolerance depth control
within .0005 for clean precise
holes. Excellent for Taper
Locks, Countersinks, Tapered
Fastener Holes and
Counterbores.

Included in the Kit are Spanner
Wrench and Male Air Fittings.

Call or Fax *UNITED* for further details.

Adjustable Drill Bars

WITH MULTIPLE TOOL DRILL GUIDES

Adjustable
Drill Bars Kit

UTK-268002-19-2 KIT

UNITED Drill Bars hold the Power Feed Air Tools securely. The Adjustable Drill Bar Guide Blocks hold and guide Nurlock Adapters from *UNITED*'s 21000 thru 24000 Series Helical Nurlock Liners and Nurlock Adapters.

Drill 90° to the work surface. You are assured perpendicularity and accurate locations.

Attractive aluminum hard blue anodized finish with alloy steel. Liners are black oxide heat treated.

UCC-268002-195

UCC-268002-196



Rib-I
Stacker
Case

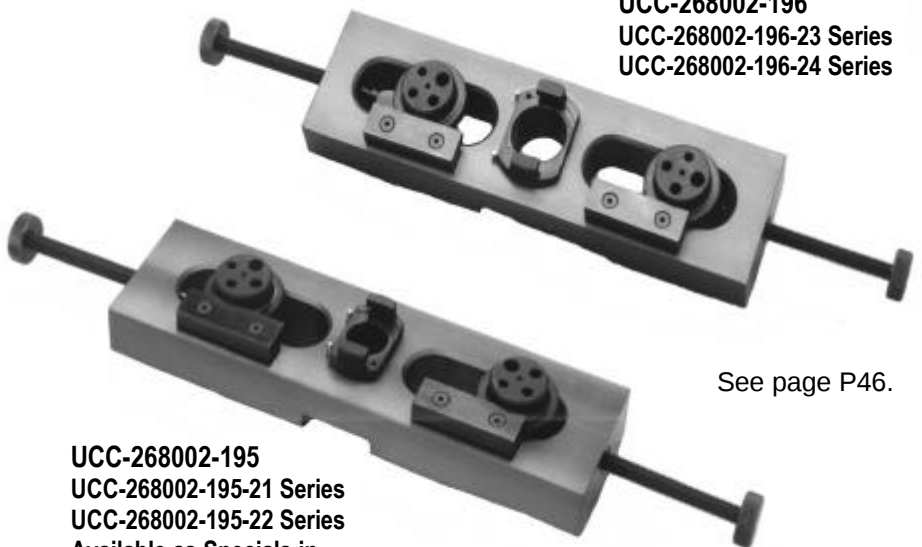
Case UCC-268002-197 is 15" L x 10" W x 8" H

UNITED's Adjustable Drill Bar Guide Blocks support Power Feed Pneumatic Tools.

UNITED's Drill Bar Guide Blocks assure 90° perpendicularity to the surface. Simultaneously the Fixture locates and secures positions for drilling five different small holes with Hand Held Portable Tools.

Specify Lock Liner Series required with each Bar.

UCC-268002-196
UCC-268002-196-23 Series
UCC-268002-196-24 Series



See page P46.

UCC-268002-195
UCC-268002-195-21 Series
UCC-268002-195-22 Series
Available as Specials in
25000 Series

Drill Bars 11" long x 3" wide x 1-1/4" high
with Chip Clearance between Liner and Workpiece

Call or Fax *UNITED* for further information.

**Positive Feed Motor
with Sensor Kit**

Power Feed Drill Motor

COMBINED WITH *UNITED* DEPTH SENSOR

UTK-268002-13 KIT

This Master Power Piggy Back Positive Feed Motor delivers the punch accurately when guided by *UNITED*'s Super Countersink, Tapered Hole or Counterbored Sensors Series UDB-756171 and UDB-756172.

Diameters and Depths are controlled within .0005.

Included with the Super Sensor and Motor are Jacobs Precision Chuck, Motor to Chuck Adapter, Chuck Key, Stroke Stop, Male Air Fitting, and Spanner Wrench for instant assembly.

This tool will drill 5/8² Taperlocks in addition to the 1² drills in steel, titanium and aluminum. The rugged *UNITED* precise Sensor will take all this Motor and Cutting Tools can dish out!



Rib-I
Stacker
Case

CASE UCC-268002-122 is 24" L x 18" W x 10" H inside



Motor

Adapter

Chuck

Key



UNITED SUPER SENSOR
SERIES UDB-756171

The Piggy Back reduces overhang and develops 1.6 nominal horsepower. With its 4" stroke, it really cuts your material!

KIT CONTENTS	
UCC-268002-116	Drill Motor
UDB-756171-5-K23-1.25	Depth Sensor
UDB-731302-1/4	1/2 Chuck Adapter
UDB-849415JC	1/2 Drill Chuck
UDB-849121	Chuck Key
UDB-615720	Stroke Stop
UCC-268002-57F	Spanner Wrench
UCC-268002-354	Male Air Fitting
UCC-268002-122	Case Assy and Foam

This Drill Motor has the capacity to drill 1-1/4² in Aluminum and 1² in Titanium and Steel. *UNITED* Sensors UDB-756171 and UDB-756172 will also guide up to 7/8² Groups 1 and 2 Taperlocks. Call or Fax *UNITED* for further details.

Universal Swivel Fixture

PICKS UP AND ALIGNS HOLES 90 DEGREES TO SURFACE

Single End Adjustable
Universal Swivel Kit

UTK-268002-19-4 KIT

High Strength Swivels clamp in most locations. Adjustments can be made for alignment, location or clamping. Accuracy is assured when your power feed tools are held securely until precise holes are achieved. Rugged heat treated steel. Black oxide finish.

These rugged 23000 and 24000 Universal Nurlock Adapter Tip Fixtures swivel to control perpendicularity within 90° to your work surface.

Fixtures are 10" long closed and 11-1/2" open by 4" wide and 1-3/4" high. They will accept Swivel Liner Bushings from UNITED s 21000 to 24000 Series.



Rib-I
Stacker
Case

RIB-I STACK CASE UCC-268002-203 is 15" L x 10" W x 8" H inside.

Universal Single End Swivel Fixture locates and aligns holes 90° to surface.



UCC-268002-202-24
24000 SERIES
UCC-268002-202-23
23000 SERIES
LOCK LINERS

10" TO 11-1/2" LONG x 4" WIDE x 1-3/4" HIGH



UCC-268002-201-21
21000 SERIES
UCC-268002-201-22
22000 SERIES
LOCK LINERS

Call or Fax UNITED for further details.

1-1/2" ADJUSTMENT

SEE PAGE P43.

UNIVERSAL ADJUSTABLE SWIVEL FIXTURE

PICK UP LOCATION — ADJUST — ALIGN — CONTROL PERPENDICULARITY — DRILL CONFIDENTLY

**Right Angle Power
Feed Kit**

Right Angle Power Feed Kit

POSITIVE FEED MOTOR, COOLANT NOSEPIECES, ADAPTERS

UTK-268002-11 POWER FEED KIT

Right Angle Positive Feed Motor with *UNITED*'s 21000, 22000, 23000, and 24000 Coolant and Standard Nosepieces for short and long spindle drilling.

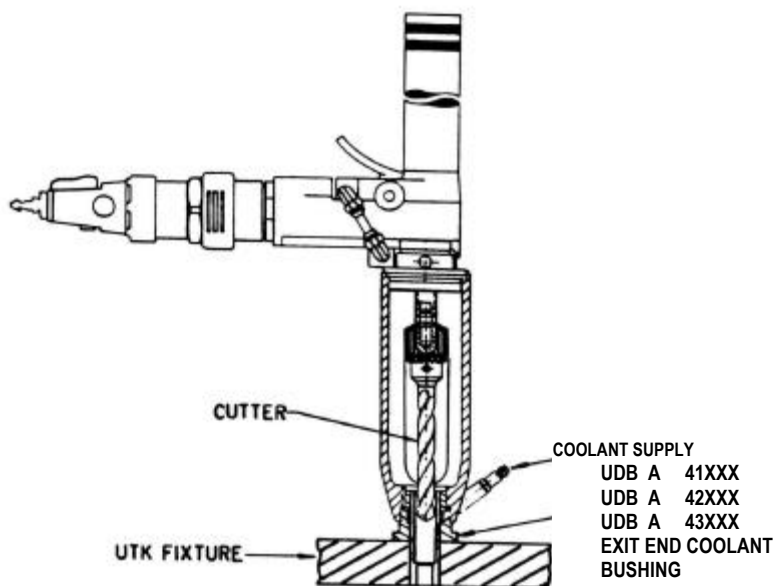
UCC-268002-101 Right Angle Drill Motor has 1-1/4" Aluminum and 1" Titanium and Steel capacity. Standard stroke capacity ranges are 5-3/4" - 6" - 9" - 9-1/4." Spindle Stroke Capacity is not limited.

Kit includes 3/8" Three Jaw Chuck, Chuck Adapter, 3/8" Collet, Collet Nut, Spindle, Stop Nut, Chuck Key, Three Nosepiece Assemblies, Motor Spindle, and Male Air Fittings in a Case Assembly with Foam Inserts.

Rib-I
Stacker
Case



Case UCC-268002-111 is 28" L x 18" W x 8" H inside



Typical Set Up for Right Angle Drill Motors with *UNITED* Nosepieces, Chuck and Exit End Coolant Bushings.

Power Feed and Speed Kit

**Power Feed and
Speed Desoutter Kit**

UTK-268002-22 KIT

This Rack Feed Drill by Desoutter is manually fed and retracted. The operator has absolute control over feed pressure. Components of this **UNITED** Kit are ideal for rapid awareness of clearance when dry hole drilling.

The stroke length is fully adjustable. The automatic start/stop can be set to operate at any point within stroke settings for maximum air economy.

You have a wide choice of speeds. Nosepieces for 21000, 22000, 23000, 24000 are included.



Rib-I
Stacker
Case

RIB-I STACKER CASE UCC-268002-181
is 31" L x 18" W x 6-1/4" H inside



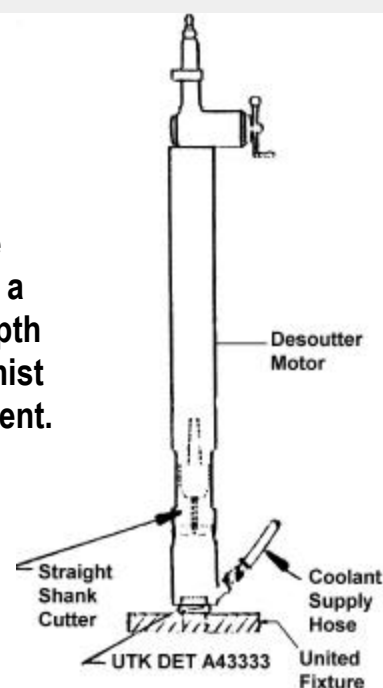
**EXCELLENT FOR SPECIAL HOLES REQUIRING
PRECISE DRILL CONTROL!**

Call or Fax **UNITED** for details.

Contents

UCC-268002-172	Desoutter Motor	UCC-268002-173	#2 Morse Taper
UCC-268002-174	Chuck Key	UCC-268002-175	Nosepiece Assy
UCC-268002-176	Nosepiece Assy	UCC-268002-177	Nosepiece Assy
UCC-268002-178	Nosepiece Assy	UCC-268002-179	Nosepiece Assy
UCC-268002-180	Nosepiece Assy	UCC-268002-353	Male Air Fitting

Tools can be
equipped with a
micrometer, depth
control, and a mist
coolant attachment.



Typical Set Up with Drill Motor and
UNITED s Coolant Nosepiece.

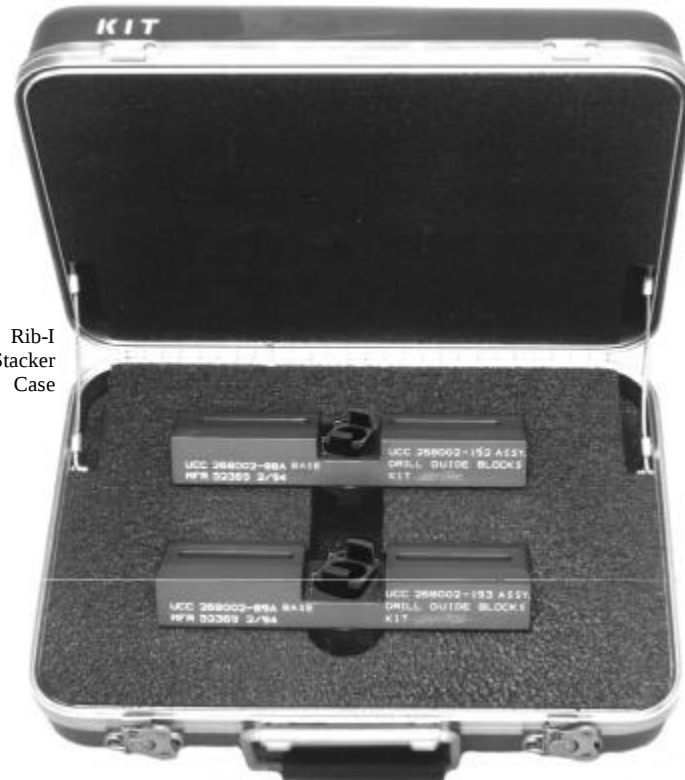
**Drill Bars For Positive
Feed Motors**

Drill Bars For Positive Feed Motors

UTK-268002-19-1 KIT

These Strong and Durable Precision Drill Bars will hold a large Drill Motor (QDA-10-11-12) and warrant close tolerances. Their great strength assures precise locating and correct alignments.

Rib-I
Stacker
Case



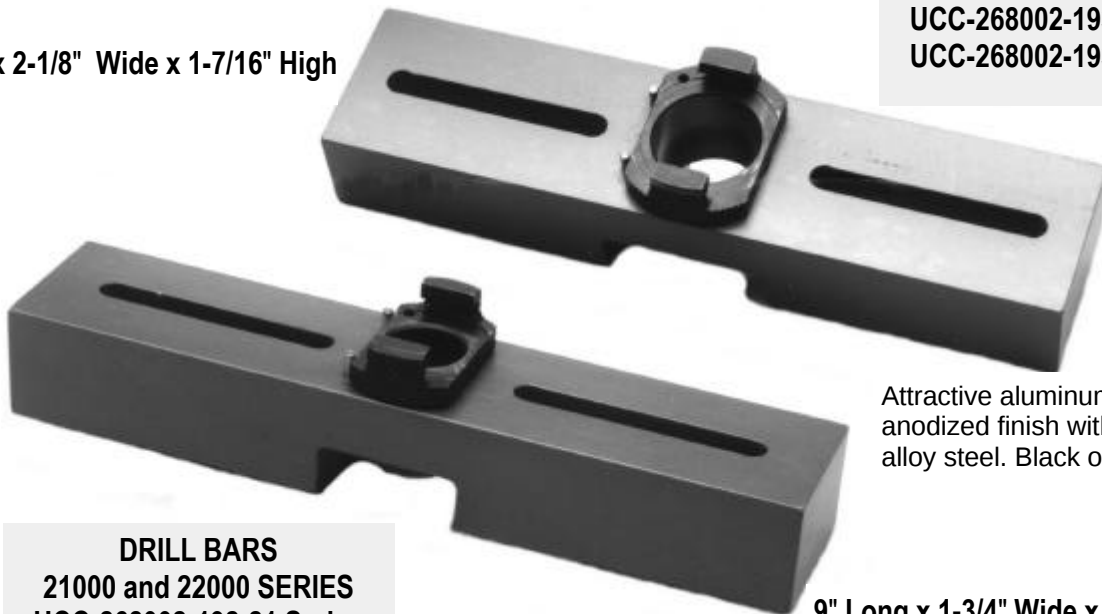
Attractive yet Tough Protective CASE UCC-268002-194 is 15" L x 10" W x 5" H with Foam Inserts

KIT CONTENTS

- 1 UCC-268002-192
DRILL GUIDE BLOCK
FOR 21000 and 22000 SERIES
- 1 UCC-268002-193
DRILL GUIDE BLOCK
FOR 23000 and 24000 SERIES

Also available in 25000 Series as Specials

9" Long x 2-1/8" Wide x 1-7/16" High



DRILL BARS
21000 and 22000 SERIES
UCC-268002-192-21 Series
UCC-268002-192-22 Series

DRILL BARS
23000 and 24000 SERIES
UCC-268002-193-23 Series
UCC-268002-193-24 Series

Attractive aluminum hard blue anodized finish with heat treated alloy steel. Black oxide liners.

9" Long x 1-3/4" Wide x 1-7/16" High

See page P42.

Super Sensor and Piggy-Back Positive Feed Motor

Super Sensor with
Positive Feed Motor

UTK-268002-17 KIT

KIT CONTENTS

1	UCC 268002-155	DRILL MOTOR
1	UDB 731302-1/4	1/2" CHUCK ADAPTER
1	UDB 849415JC	1/2" DRILL CHUCK
1	UDB 849121	CHUCK KEY
1	UDB 615720	STROKE STOP
4	UDB 621235 NCS	NOSEPIECE ASSEMBLY
1	UDB 756171-7-K23-1.25	DEPTH SENSOR
1	UCC 268002-75F	SPANNER WRENCH
1	UCC 268002-354	MALE AIR FITTING
1	UDB 756171-27-56XX	ADAPTER NOSEPIECE TIP
1	UCC 268002-165	RIB-I CASE ASSY With FOAM



Rib-I
Stacker
Case

CASE UCC-268002-165 is
24" L x 18" W x 15" H inside
DURABLE RIB-I STACK STYLE

This power package is equipped
with **UNITED's** Precision Coolant
Nosepieces and our Super
Sensible Super Sensor.

UNITED's combination package
will drive 1-1/4" Drills and 7/8"
Taperlocks. High performance is
maintained day after day after day!

Call or Fax **UNITED** for further details.



Universal Adjustable Swivel Drill Bar Fixtures

FOR LARGE POWERFUL MOTORS THAT

UTK-268002-19-3 KIT

UNITED Universal Adjustable Swivel Drill Bar Fixture picks up, transfers, aligns holes and locations within 90° to work surfaces.

Excellent for work on contoured surfaces! They swivel, adjust vertically and horizontally and expand their base.

UNITED Fixture Kits are shipped in a Durable Polyethylene Case with Foam Inserts to protect your equipment. Fixtures are attractive aluminum hard blue anodized base with alloy heat treated center swing clamp. Locating surface has black oxide finish.

Rib-I
Stacker
Case

CASE UCC-268002-200 18" L x 13" W x 8" H inside

* SELF-ALIGNING DRILL BARS UNIVERSAL FIXTURES

UCC-268002-198-21
UCC-268002-198-22

* 13-1/2" Long closed
Adjusts to 16-1/2" Long
x 6" Wide x 1-7/8" High

UCC-268002-199-23
UCC-268002-199-24

UCC-268002-198-1 21000 SERIES
UCC-268002-198-2 22000 SERIES
UCC-268002-199-3 23000 SERIES
UCC-268002-199-4 24000 SERIES
(UCC-268002-199-5 25000 SERIES
as Special available on request)

* Two extensions each end are adjustable for clamping surface.

* Holds, locks and aligns UNITED's Nurlock Shanks and Collars 21000 thru 25000 Series with I.D. ranges from 3/32" to 1-1/2".

* Height adjustment
1-7/8" to 3-3/8"

* Four Leveling screw pads to adjust to work surface variations

See page P43.

Master Alignment Coolant and Handle Bushing

Power Feed Alignment
Bushing Kit

UTK-268002-19-5 KIT

UNITED'S Master Alignment and Handle Bushing Kit was conceived and designed to accommodate the Drill Motors shown on previous pages.

The Kit is complete with Alignment Pins for the Swivel Fixtures and Drill Guide Bar Fixtures, Power Feed Nurlock Coolant Drill Bushings and Handle Bushings.

This UNITED Kit contains the Drill Motors, Spindles, Nosepieces, Chucks, Bushings, Adapters and all essential Set Up and Check Out tooling to produce cylindrical and tapered quality holes.

Call or Fax UNITED for further details.



Rib-I
Stacker
Case

RIB-I STACK CASE UCC-268002-309 is 24" L x 24" W x 6" H inside



Fifty-nine Close Tolerance Handle Bushings
UCC-268002-255 thru 397 Handle Traveler
Bushings from #30 thru 21/32.

Forty-five Precise Alignment Locating Pins
UCC-268002-234 thru 376 of .1290 thru .6562.
2 UDB-SB-32-16 Center Scopes
1 UDB-SF-56-20-1/2 Bushing
1 UDB-SF-80-20-1/2 Bushing

Thirty-seven Nurlock Coolant Adapter Tips
(.1290 thru .6546)
8 UDB-AH 42710 .1290 thru .2349
29 UDB-AH 43610 .1290 thru .6546

Composite Repair Kit

Super Composite Repair Kit

U. S. NAVY TYPE COMPOSITE MATERIALS REPAIR KIT

UTK-218001-F18 KIT

Ref: UCC-200018-FA-18

Airframes such as the F18-757-777, the MD 90 and many others contain numerous components and assemblies fabricated from Aramid, Graphite Epoxy, Honeycomb Cores and other composite materials.

UNITED's Super Composite Repair Kit provides the necessary special tools for drilling, countersinking, routing and repairing bonded components. Some of the special tools will remove surface finish, route damaged skins, install trimming, bonded patches and fasteners. All the required tools are shown below (The big 'C' below stands for Composite!).



CASE UCC-218980 is 37-1/4" L x 27-1/4" W x 7" H outside.

CONTENTS

1	UCC-218101,102	ALIGN-A-DRILL WITH UNI-A-CHECK
10	UCC-218970	ALIGNMENT PINS, STAINLESS
1	UCC-218980	CASE TRANSIT MIL-C-4150, TYPE II
4	UCC-218966	CLAMP BUSHINGS, STAINLESS
1	UCC-218803-301	COOLANT ADAPTER, 3/4 I.D.
1	UCC-218987	COOLANT BOTTLE W/LID
1	UCC-218402	CORE CUTTER, HONEYCOMB
1	UCC-218984	COUNTERBORE, .671 DIA.
11	UCC-218982-465-1	CUTTERS, COUNTERSINK
2	UCC-218965-1	DRILL GUIDES, STAINLESS STEEL
1	UCC-218247	DRILL MOTOR
4	UCC-218986-10	DRILL STOPS
96	UCC-218193	DRILLS, CARBIDE
16	UCC-218803-.0980	EXIT END COOLANT BUSHINGS
72	UCC-218250-4	FASTENERS
1	UCC-218981	FOAM INSERT SET, MIL-P-26514
3	UCC-218016	HEX KEYS, 3/16 SHORT ARM
22	UCC-218983-2	INSERTS, COUNTERSINK-CARBIDE
3	UCC-218330-S	MICROSTOP GAUGES
4	UCC-218787	OVERHOSE ASSEMBLIES
6	UCC-218903	PILOTED REAMERS, CARBIDE
1	UCC-218985	PILOTED COUNTERBORE, .468 DIA
10	UCC-218052	ROTARY FILE BITS, CARBIDE
1	UCC-218595-10E	ROUTER BIT, DIAMOND COATED
1	UCC-218407	ROUTER COLLAR GUIDE
1	UCC-218979	ROUTER HOLDER, ADJUSTABLE
2	UCC-218994	ROUTER MOTOR
1	UCC-218180	ROUTER NOSEPIECE ATTACHMENT
58	UCC-218210	SANDING DISCS
11	UCC-218980-1	TEMPLATE CASE, ALUMINUM
12	UCC-218960-1/8	TWIST DRILL, CARBIDE
1	UCC-218999	VACUUM ATTACHMENT
1	UCC-218003	EXTRACTOR TOOL



Pneumatic Air Drill Kit

Pneumatic Air Drill Kit

UDB-916A11388 KIT

UNITED HOLE TRANSFER KIT

CONTENTS

- | | | |
|---|---------------------|--------------------------|
| 1 | UDB-711388-1 | Offset Motor |
| 1 | UDB-11388-2 | Straight Motor |
| 8 | UDB-11388-3 thru 11 | Piloted Carbide Drills |
| 2 | UDB-11388-12-13 | Piloted Carbide Reamers |
| 1 | UDB-916A11388-13 | Rib-I Case, Foam Inserts |

This Carbide Cutting Tool Kit contains straight and offset high speed Pneumatic Air Drill Motors, eight encased Piloted Carbide Drills and two encased Carbide Reamers. Shockproof Rib-I Stack Case UDB-916A11388-13 is 18" H x 13" W x 5" H with foam inserts.



Rib-I
Stacker
Case

UDB-916A11388 KIT

CARBIDE

THE BIT THAT DOESN'T WEAR OUT!



Call or Fax UNITED for
further details.

PNEUMATIC AIR DRILL — 'L' HEAD HIGH SPEED
DRILLS, PILOTED — CARBIDE

PNEUMATIC AIR DRILL — 'F' HEAD HIGH SPEED
REAMERS, PILOTED — CARBIDE

Composite Repair Kit from UNITED

KIT NUMBER UTK-68D571



For F4 - 15 and General Repairs

**General in service repairable damage
for bonded assemblies includes:**

Dents

Voids

Unbonds

Delaminations

Skin Damage only

**Skin & Honeycomb Core Damage
All plies not penetrated**

**Penetration of one Skin and
Honeycomb core**

**Penetrations of both Skins and
Honeycomb Core**

Water Entrapment

Composite Repair Tool Kit

**For Replacement and
Repairable Damage
of
Bonded Assembly Tooling**

ITEM NO.	KIT QTY	UNITED PART NUMBER	ITEM DESCRIPTION
1	1	UTK 68D571	Tool Kit, Composite Repair - 17" L x 10" W x 5-1/2" H
2	1	UCC 68D571-1	Case Assembly, Rib-I Stacking W/UCC Logo - Blue
3	1	UCC 68D571-2017	Template, 301 Stainless 1/2 Hard - 3" x 3" x .060
4	1	UCC 68D571-2019	Template, 301 Stainless 1/2 Hard - 3" x 3" x .060
5	1	UCC 68D571-2021	Template, 301 Stainless 1/2 Hard - 3" x 3" x .060
6	1	UCC 68D571-2023	Template, 301 Stainless 1/2 Hard - 3" x 3" x .060
7	10	UCC CAD402	Twist Drill, Carbide, 2 FLute 1/8"Ø x 2-5/8" OAL, 1-1/4" Flute
8	3	UCC CD301	Core Drill, Diamond, 80/120 Grit, 3/4"Ø x 3" OAL, 1/4" Shk
9	3	UCC CD302	Core Drill, Diamond, 80/120 Grit, 1"Ø x 3" OAL, 1/4" Shk
10	3	UCC CD303	Core Drill, Diamond, 80/120 Grit, 1-1/2"Ø x 3" OAL, 3/8" Shk
11	3	UCC CD304	Core Drill, Diamond, 80/120 Grit, 2"Ø x 3" OAL, 3/8" Shk
12	3	UCC CR701	Router Bit, Carbide, Single End 1/4"Ø x 2-1/2" OAL, 3/4" Cut
13	1	UCC DR201-120	Router Bit, Diamond - 120 Grit, 1/2"Ø x 3" OAL, 1" Cut
14	1	UCC DR201-40	Router Bit, Diamond - 40 Grit, 1/2"Ø x 3" OAL, 1" Cut
15	1	UCC DR201-80	Router Bit, Diamond - 80 Grit, 1/2"Ø x 3" OAL, 1" Cut
16	3	UCC DR202-60/80	Router Bit, Diamond - 60/80 Grit, 1/4"Ø x 3" OAL, 1" Cut
17	3	UCC DR203-60/80	Router Bit, Tapered, Diamond - 60/80 Grit, 1/4"Ø x 3" OAL
18	1	UCC DS601	Dressing Stone, White - 3/4" x 1" x 3" OAL
19	10	UCC MDP601	Mounted Point, Diamond - 120 Grit, 1/8"Ø x 2" OAL, 1/4" Cut
20	1	UCC MW101-120	Mounted Wheel, Diamond - 120 Grit, 1/2"Ø x 2-1/6" OAL, 1/16" Cut
21	1	UCC MW101-40	Mounted Wheel, Diamond - 40 Grit, 1/2"Ø x 2-1/6" OAL, 1/16"
22	1	UCC MW101-80	Mounted Wheel, Diamond - 80 Grit, 1/2"Ø x 2-1/6" OAL, 1/16" Cut
23	1	UCC MW102-120	Mounted Wheel, Diamond - 120 Grit, 1"Ø x 2-1/6" OAL, 1/16" Cut
24	1	UCC MW102-40	Mounted Wheel, Diamond - 40 Grit, 1"Ø x 2-1/6" OAL, 1/16" Cut
25	1	UCC MW102-80	Mounted Wheel, Diamond - 80 Grit, 1"Ø x 2-1/6" OAL, 1/16" Cut
26	1	UCC SDH701	Sanding Disc Holder, 1" - Powerlock
27	10	UCC SD702-120	Sanding Disc, 1" - 120 Grit - Powerlock - Aluminum Oxide
28	10	UCC SD702-240	Sanding Disc, 1" - 240 Grit - Powerlock - Aluminum Oxide
29	10	UCC SD702-60	Sanding Disc, 1" - 60 Grit - Powerlock - Aluminum Oxide

Protrusion Gauges Kit

Protrusion Gauges for
7/16 Taperlock

UTK-755885DM-7 KIT METRIC
* UTK-755884 KIT INCH STANDARD

UNITED kits individual Sets of Protrusion Gauges as shown and listed on pages S18 and S19.

These individual size kits are generally checked out of the Inspection Gauge Cribs and used for specific size checks in process or at final line inspection.

They may be re-calibrated by returning them to **UNITED**. Should they be worn, undersized or tapered from nominal, **UNITED** will re-grind, plate and return with new certifications.

The Kit shown was manufactured and ground to metric standards for Deutsch Air Bus, Hamburg, GM. Now available.

Kit Contents

UDB-755885 Metric Multi-gauge Handle
UDB-755885-1-7 Gauge Pin 7/16 Group 1
UDB-755885-2-7 Gauge Pin 7/16 Group 2
UDB-755885-3-7 Gauge Pin 7/16 Group 3
UDB-755885-4-7 Gauge Pin 7/16 Group 4
UDB-755885-CAS RIB 'I' Stack CASE
with Foam Inserts

Call or Fax **UNITED** for further details.

* See Page S18.

UTK-755885DM-7 KIT METRIC
* UTK-755884 KIT INCH STANDARD



Rib-I
Stacker
Case

UTK-755885DM-7 KIT METRIC
* UTK-755884 KIT INCH STANDARD

SIMPLE — FAST

The utilization of the 4-way Protrusion Gauge is a simple and rapid method of accurately checking the protrusion of a tapered hole prior to fastener installation.

The Protrusion Gauge shown is designed to inspect the protrusion by simply inserting the gauge insert, an integral part of the gauge assembly, into the part with finger tip pressure. The pin at the top of the gauge will indicate whether or not the fastener is protruding an acceptable amount. Please refer to the Go and No Go illustrations on page S18.

Each gauge will check 20 sizes of Taper Lock bolt holes for TL100 and TL200 fasteners, Groups 1 thru 4 of the specified size. See the Chart on page S7.



Cutting Tool and Gauge Kit - 9/16 TL

Cutting Tools, Gauges and Carbide Kit

UTK-250016F-15 KIT

TAPERLOCK 9/16 TOOL KIT contains all cutting tools, drills, reamers and countersink gauges to Drill, Ream and Finish the 9/16 Taperlock holes. All the required tools for Commercial and Military Standards are included. Twenty tools to complete the job.

UNITED designed this Emergency Kit for spare repair for the F15. Concept by Al Mischaud, McClellan AFB. Technical Direction by *UNITED Experts*. Call or Fax *UNITED* for details.



UTK-250016F-15 KIT

KIT CONTENTS

2	UTLD 20TLM1-1-9	Drill - 9/16" Group 1
1	UTLD 20TLM1-2-9	Drill - 9/16" Group 2
2	UTLR 20TUFF-1-9	Reamer - 9/16" Group 1
2	UTLR 20TUFF-2-9	Reamer - 9/16" Group 2
2	UTLR 2055-2-9	Reamer, Hand - 9/16" Group 1 - 2
1	UDB 755887-9	Protrusion Gauge Handle Assembly
1	UDB 755861-1-9	Gauge Pin, Protrusion - 9/16" Group 1
1	UDB 755861-2-9	Gauge Pin, Protrusion - 9/16" Group 2
1	UDB 756100	Gauge Blueing Pin - 9/16" Group 1-3
1	UTLG 5102A-9	Protrusion Gauge, 100° C'Sink
1	UTLG 5107-3-9XX	Gauge Pin, Protrusion - 9/16" Group 3
1	UDB 755784	Taper Scraper - 9/16" Group 1-3
1	UDB 710300	Knockout Tool, 9/16" Taperlock
1	UTLG 5120-100-1-9	Gauge, 100° C'Sink, 9/16" Group 1
1	UTLG 5120-100-2-9	Gauge, 100° C'Sink, 9/16" Group 2
1	UDB 755770	'T' Handle Taper Scraper
1	UCC 250016F-KDL	Kit Contents Data List
1	UCC 250016F-CAS	RIB 'I' Stack Case Assembly - Blue



Avoid Set Up Delays

UNITED GUN DRILL MASTER LINER SETS

With a **UNITED GDL MASTER GUN DRILL LINER SET** you avoid set up delays and increase your gun drill guiding capacity.

Each set covers minimum to maximum GDI Insert ranges.

Liners store easily in a durable polyethylene case.

**Gun Drill Master
Liners Sets in Cases**



**GUN DRILL MASTER LINER
SETS in CASES
AVAILABLE: CASES ONLY**

SELECT YOUR O.D.

1" O.D. SET: GDL-64 Set of FIVE 1" O.D. by 1" long GDL Gun Drill Bushing Master Liners. <table><tr><td>GD MASTER LINER</td><td>USE WITH 1/2" LONG INSERTS</td></tr><tr><td>GDL-64-16-13</td><td>13/64 O.D.</td></tr><tr><td>GDL-64-16-16</td><td>1/4 O.D.</td></tr><tr><td>GDL-64-16-20</td><td>5/16 O.D.</td></tr><tr><td>GDL-64-16-32</td><td>1/2 O.D.</td></tr><tr><td>GDL-64-16-48</td><td>3/4 O.D.</td></tr></table> Order as: GDL-64	GD MASTER LINER	USE WITH 1/2" LONG INSERTS	GDL-64-16-13	13/64 O.D.	GDL-64-16-16	1/4 O.D.	GDL-64-16-20	5/16 O.D.	GDL-64-16-32	1/2 O.D.	GDL-64-16-48	3/4 O.D.	1-3/8 O.D. SET: GDL-88 Set of SIX 1-3/8 O.D. by 1-3/8 long GDL Gun Drill Bushing Master Liners. <table><tr><td>GD MASTER LINER</td><td>USE WITH 3/4" LONG INSERTS</td></tr><tr><td>GDL-88-22-13</td><td>13/64 O.D.</td></tr><tr><td>GDL-88-22-16</td><td>1/4 O.D.</td></tr><tr><td>GDL-88-22-20</td><td>5/16 O.D.</td></tr><tr><td>GDL-88-22-32</td><td>1/2 O.D.</td></tr><tr><td>GDL-88-22-48</td><td>3/4 O.D.</td></tr><tr><td>GDL-88-22-64</td><td>1" O.D.</td></tr></table> Order as: GDL-88	GD MASTER LINER	USE WITH 3/4" LONG INSERTS	GDL-88-22-13	13/64 O.D.	GDL-88-22-16	1/4 O.D.	GDL-88-22-20	5/16 O.D.	GDL-88-22-32	1/2 O.D.	GDL-88-22-48	3/4 O.D.	GDL-88-22-64	1" O.D.	1-3/4 O.D. SET: GDL-112 Set of SEVEN 1-3/4 O.D. by 1-3/4 long GDL Gun Drill Bushing Master Liners. <table><tr><td>GD MASTER LINER</td><td>USE WITH 1" LONG INSERTS</td></tr><tr><td>GDL-112-28-13</td><td>13/64 O.D.</td></tr><tr><td>GDL-112-28-16</td><td>1/4 O.D.</td></tr><tr><td>GDL-112-28-20</td><td>5/16 O.D.</td></tr><tr><td>GDL-112-28-32</td><td>1/2 O.D.</td></tr><tr><td>GDL-112-28-48</td><td>3/4 O.D.</td></tr><tr><td>GDL-112-28-64</td><td>1" O.D.</td></tr><tr><td>GDL-112-28-88</td><td>1-3/8 O.D.</td></tr></table> Order as: GDL-112	GD MASTER LINER	USE WITH 1" LONG INSERTS	GDL-112-28-13	13/64 O.D.	GDL-112-28-16	1/4 O.D.	GDL-112-28-20	5/16 O.D.	GDL-112-28-32	1/2 O.D.	GDL-112-28-48	3/4 O.D.	GDL-112-28-64	1" O.D.	GDL-112-28-88	1-3/8 O.D.	2-1/4 O.D. SET: GDL-144 Set of FOUR 2-1/4 O.D. by 2-1/8 long GDL Gun Drill Bushing Master Liners. <table><tr><td>GD MASTER LINER</td><td>USE WITH 1-1/4" LONG INSERTS</td></tr><tr><td>GDL-144-34-48</td><td>3/4 O.D.</td></tr><tr><td>GDL-144-34-64</td><td>1" O.D.</td></tr><tr><td>GDL-144-34-88</td><td>1-3/8 O.D.</td></tr><tr><td>GDL-144-34-112</td><td>1-3/4 O.D.</td></tr></table> Order as: GDL-144	GD MASTER LINER	USE WITH 1-1/4" LONG INSERTS	GDL-144-34-48	3/4 O.D.	GDL-144-34-64	1" O.D.	GDL-144-34-88	1-3/8 O.D.	GDL-144-34-112	1-3/4 O.D.
GD MASTER LINER	USE WITH 1/2" LONG INSERTS																																																						
GDL-64-16-13	13/64 O.D.																																																						
GDL-64-16-16	1/4 O.D.																																																						
GDL-64-16-20	5/16 O.D.																																																						
GDL-64-16-32	1/2 O.D.																																																						
GDL-64-16-48	3/4 O.D.																																																						
GD MASTER LINER	USE WITH 3/4" LONG INSERTS																																																						
GDL-88-22-13	13/64 O.D.																																																						
GDL-88-22-16	1/4 O.D.																																																						
GDL-88-22-20	5/16 O.D.																																																						
GDL-88-22-32	1/2 O.D.																																																						
GDL-88-22-48	3/4 O.D.																																																						
GDL-88-22-64	1" O.D.																																																						
GD MASTER LINER	USE WITH 1" LONG INSERTS																																																						
GDL-112-28-13	13/64 O.D.																																																						
GDL-112-28-16	1/4 O.D.																																																						
GDL-112-28-20	5/16 O.D.																																																						
GDL-112-28-32	1/2 O.D.																																																						
GDL-112-28-48	3/4 O.D.																																																						
GDL-112-28-64	1" O.D.																																																						
GDL-112-28-88	1-3/8 O.D.																																																						
GD MASTER LINER	USE WITH 1-1/4" LONG INSERTS																																																						
GDL-144-34-48	3/4 O.D.																																																						
GDL-144-34-64	1" O.D.																																																						
GDL-144-34-88	1-3/8 O.D.																																																						
GDL-144-34-112	1-3/4 O.D.																																																						
ALL O.D.s SET: GDL-176 Set of FIVE by 2-1/2 long GDL Gun Drill Bushing Master Liners. <table><tr><td>GD MASTER LINER</td><td>USE WITH 2-1/2" LONG INSERTS</td></tr><tr><td>GDL-176-40-48</td><td>3/4 O.D.</td></tr><tr><td>GDL-176-40-64</td><td>1" O.D.</td></tr><tr><td>GDL-176-40-88</td><td>1-3/8 O.D.</td></tr><tr><td>GDL-176-40-112</td><td>1-3/4 O.D.</td></tr><tr><td>GDL-176-40-144</td><td>2-1/4 O.D.</td></tr></table> Order as: GDL-176	GD MASTER LINER	USE WITH 2-1/2" LONG INSERTS	GDL-176-40-48	3/4 O.D.	GDL-176-40-64	1" O.D.	GDL-176-40-88	1-3/8 O.D.	GDL-176-40-112	1-3/4 O.D.	GDL-176-40-144	2-1/4 O.D.	CASES ONLY MOLDED CASE WITHOUT BUSHINGS HANDSOME, DURABLE BLACK MOLDED POLYETHYLENE CASE. ORGANIZE YOUR GUN DRILL BUSHINGS IN THE CASE THAT HAS A PLACE FOR EVERYTHING. ORDER BY SIZE BELOW. <table><tr><td>CASE ONLY NO.</td><td>FOR GDL SIZES</td><td>NO. of BUSHINGS</td><td>CASE DIMENSIONS</td></tr><tr><td>GDL-64B</td><td>1" O.D. x 1" Long</td><td>5</td><td>6-1/2 x 4-1/2 x 2</td></tr><tr><td>GDL-88B</td><td>1-3/8 O.D. x 1-3/8 Long</td><td>6</td><td>10-1/4 x 7-1/2 x 3-1/2</td></tr><tr><td>GDL-112B</td><td>1-3/4 O.D. x 1-3/4 Long</td><td>7</td><td>13-1/2 x 9 x 4-1/4</td></tr><tr><td>GDL-144B</td><td>2-1/4 O.D. x 2-1/8 Long</td><td>4</td><td>13-1/2 x 9 x 4-1/4</td></tr><tr><td>GDL-176B</td><td>2-3/4 O.D. x 2-1/2 Long</td><td>5</td><td>13-1/2 x 9 x 4-1/4</td></tr></table>			CASE ONLY NO.	FOR GDL SIZES	NO. of BUSHINGS	CASE DIMENSIONS	GDL-64B	1" O.D. x 1" Long	5	6-1/2 x 4-1/2 x 2	GDL-88B	1-3/8 O.D. x 1-3/8 Long	6	10-1/4 x 7-1/2 x 3-1/2	GDL-112B	1-3/4 O.D. x 1-3/4 Long	7	13-1/2 x 9 x 4-1/4	GDL-144B	2-1/4 O.D. x 2-1/8 Long	4	13-1/2 x 9 x 4-1/4	GDL-176B	2-3/4 O.D. x 2-1/2 Long	5	13-1/2 x 9 x 4-1/4																
GD MASTER LINER	USE WITH 2-1/2" LONG INSERTS																																																						
GDL-176-40-48	3/4 O.D.																																																						
GDL-176-40-64	1" O.D.																																																						
GDL-176-40-88	1-3/8 O.D.																																																						
GDL-176-40-112	1-3/4 O.D.																																																						
GDL-176-40-144	2-1/4 O.D.																																																						
CASE ONLY NO.	FOR GDL SIZES	NO. of BUSHINGS	CASE DIMENSIONS																																																				
GDL-64B	1" O.D. x 1" Long	5	6-1/2 x 4-1/2 x 2																																																				
GDL-88B	1-3/8 O.D. x 1-3/8 Long	6	10-1/4 x 7-1/2 x 3-1/2																																																				
GDL-112B	1-3/4 O.D. x 1-3/4 Long	7	13-1/2 x 9 x 4-1/4																																																				
GDL-144B	2-1/4 O.D. x 2-1/8 Long	4	13-1/2 x 9 x 4-1/4																																																				
GDL-176B	2-3/4 O.D. x 2-1/2 Long	5	13-1/2 x 9 x 4-1/4																																																				

Sets of Slip Fit Drill & Reamer Bushings

Economical Slip Fit Bushings in SETS!



UTK-SF-13
SET

13

SMALL SHOP SET
1/16 to 1/4 by 64ths

Drill or Reamer Bushings

Set includes THIRTEEN SF Bushings all 1/2" long:

1 each

SF-20-8- 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16

SF-32-8- 13/64, 7/32, 15/64, 1/4

Order as:

UTK-SFD-13 DRILL BUSHINGS SET

UTK-SFD-13-DB DRILL BUSHINGS WITH 1 DRILL BAR-5/16"-1/2"

UTK-SFR-13 REAMER BUSHINGS SET

UTK-SFR-13-DB REAMER BUSHINGS WITH 1 DRILL BAR-5/16"-1/2"

UTK-SFDR-26-DB ALL Drill & Reamer Bushings above with 1 DRILL BAR-5/16"-1/2"

UNITED's
SF Drill &
Reamer
Bushings
available
in Sets!

Preferred by:

- Mechanics
- Machinists
- Retrofitters
-

Toolmakers

- Specialists

UNITED Sets
satisfy the
requirements
of any
metalworking
shop.



UTK-SF-15
SET

15

TOOL MAKERS SET
1/16 to 1/2 by 32nds

Drill or Reamer Bushings

Set includes FIFTEEN SF Bushings all 1/2" long:

1 each

SF-20-8- 1/16, 3/32, 1/8, 5/32, 3/16

SF-32-8- 7/32, 1/4, 9/32, 5/16, 11/32

SF-48-8- 3/8, 13/32, 7/16, 15/32, 1/2

Order as:

UTK-SFD-15 DRILL BUSHINGS SET

UTK-SFD-15-DB DRILL BUSHINGS & 2 DRILL BARS-5/16"-1/2"-3/4"

UTK-SFR-15 REAMER BUSHINGS SET

UTK-SFR-15-DB REAMER BUSHINGS & 2 DRILL BARS-5/16"-1/2"-3/4"

UTK-SFDR-30-DB ALL Drill & Reamer Bushings above & 2 DRILL BARS-5/16-1/2-3/4"



UTK-SF-21
SET

21

MID-RANGE SET
1/16 to 3/8 by 64ths

Drill or Reamer Bushings

Set includes TWENTY-ONE SF Bushings all 1/2" long:

1 each

SF-20-8- 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16

SF-32-8- 13/64, 7/32, 15/64, 1/4, 17/64, 9/32, 19/64, 5/16, 21/64

SF-48-8- 11/32, 23/64, 3/8

Order as:

UTK-SFD-21 DRILL BUSHINGS SET

UTK-SFD-21-DB DRILL BUSHINGS WITH 2 DRILL BARS-5/16-1/2-3/4"

UTK-SFR-21 REAMER BUSHINGS SET

UTK-SFR-21-DB REAMER BUSHINGS & 2 DRILL BARS-5/16-1/2-3/4"

UTK-SFDR-42-DB ALL Drill & Reamer Bushings above & 2 DRILL BARS-5/16-1/2-3/4"

All Sets
provided in
attractive and
distinctive
black molded
cases 2 to 3"
thick—fits in
tool box.

UNITED SF DRILL & REAMER BUSHINGS in Sets of the most popular sizes!

Sets available in **Drill Bushings (D)**, **Reamer Bushings (R)** and you can add a compact **Drill Bar (DB)**.

Specify **UTK-SF D, R** or add **DB** to Part No.

For All items, specify **UTK-SFDR- # -DB**.

TOLERANCES ON INSIDE DIAMETERS

For REAMER BUSHINGS		For DRILL BUSHINGS	
I. D. RANGE	TOLERANCE OVER NOM.	I. D. RANGE	TOLERANCE OVER NOM.
Up to .2500	+ .0005 to + .0008	Up to .2500	+ .0001 to + .0004
Over .2500 to 1.0000	+ .0006 to + .0010	Over .2500 to .7500	+ .0001 to + .0005
Over 1.0000	+ .0008 to + .0012	Over .7500 to 1.5000	+ .0002 to + .0006
		Over 1.5000 to 1.8750	+ .0003 to + .0007

Molded Custom Cases With Matching Drill Bars

Sets of SF Bushings
with Drill Bars Added

Simplify
your
location and
fixturing!

ADD
Double End
DRILL BARS
to your SF
Drill or
Reamer
Bushings
Set.

Drill Bars
provide
accurate
location and
alignment of
drilled
holes.

You get
UNITED'S
Best Bars!

UTK-SF-22 SET **22** **MINI-WIRE SET**
Drill or Reamer Bushings #80 to #61

Set includes TWENTY-TWO SF Bushings all 1/2" long:
1 each
SF-20-8- #80, 79, 1/64, 78, 77, 76, 75, 74, 73, 72, 71,
70, 69, 68, 1/32, 67, 66, 65, 64, 63, 62, 61

Order as:
UTK-SFD-22 DRILL BUSHINGS SET
UTK-SFD-22-DB DRILL BUSHINGS WITH 1 DRILL BAR-1/2"-3/4"
UTK-SFR-22 REAMER BUSHINGS SET
UTK-SFR-22-DB REAMER BUSHINGS WITH 1 DRILL BAR-1/2"-3/4"
UTK-SFDR-44-DB ALL Drill & Reamer Bushings above with 1 DRILL BAR-1/2"-3/4"



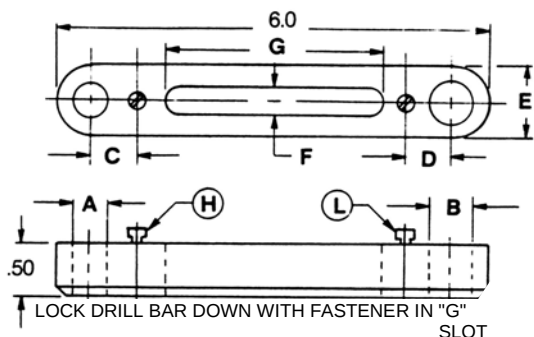
UTK-SFM-25 SET **25** **METRIC SET**
MM Drill or Reamer Bushings (.0394 THRU .5118)

Set includes TWENTY-FIVE SFM Bushings all 1/2" long:
1 each
SFM-20-8- 1.00mm, 1.50mm, 2.00mm, 2.50mm, 3.00mm,
3.50mm, 4.00mm, 4.50mm, 5.00mm (.0394 thru .1968)
SFM-32-8- 5.50mm, 6.00mm, 6.50mm, 7.00mm, 7.50mm,
8.00mm, 8.50mm (.2165 thru .3346)
SFM-48-8- 9.00mm, 9.50mm, 10.00mm, 10.50mm,
11.00mm, 11.50mm, 12.00mm, 12.50mm, 13.00mm
(.3543 thru .5188)

Order as:
UTK-SFMD-25 DRILL BUSHINGS SET
UTK-SFMD-25-DB DRILL BUSHINGS & 2 DRILL BARS-5/16-1/2-3/4"
UTK-SFMR-25 REAMER BUSHINGS SET
UTK-SFMR-25-DB REAMER BUSHINGS & 2 DRILL BARS-5/16-1/2-3/4"
UTK-SFMDR-50-DB ALL Drill & Reamer Bushings above & 2 DRILL BARS-5/16-1/2-3/4"



DOUBLE END DRILL BARS



DOUBLE END DRILL BARS

UNITED PART NO.	A +.0005 -.0000	B +.0005 -.0000	C	D	E	F	G Travel	Lockscrews included H L		Use with Bushings
DBL-20-32	.3126	.5003	.500	.625	3/4	3/8	3-1/8	LS-1	LS-1	SF20-8 / SF32-8
DBL-32-48	.5003	.7503	.625	.578	1-1/8	3/8	2-5/8	LS-1	LS-1	SF32-8 / SF48-8

Long Wear SF Drill & Reamer Bushings Sets!

- Premium Steel
- Durable
- Clearly labeled sizes for easy selection
- In quality custom molded cases only 2" to 3" thick
- Fits your tool box, rollaway, crib or shelf
- Organized
- Useful

UNITED Sets provide the most efficient way to keep your tools!

To get **UNITED'S** best in matching size Drill Bars,
Simply add 'DB' to Part No. and we will do the rest!



Sets of Slip Fit Drill & Reamer Bushings

A Variety of Slip Fit Bushings in SETS!



UTK-SF-26 SET	26	LETTER SET A thru Z
Drill or Reamer Bushings		
Set includes TWENTY-SIX SF Bushings all 1/2" long: 1 each SF-32-8- A, B, C, D, E, F, G, H, I, J, K, L, M, N, O, P, Q, R SF-48-8- S, T, U, V, W, X, Y, Z		
Order as: UTK-SFD-26 DRILL BUSHINGS SET UTK-SFD-26-DB DRILL BUSHINGS WITH 1 DRILL BAR-1/2"-3/4" UTK-SFR-26 REAMER BUSHINGS SET UTK-SFR-26-DB REAMER BUSHINGS WITH 1 DRILL BAR-1/2"-3/4" UTK-SFDR-52-DB ALL Drill & Reamer Bushings above with 1 DRILL BAR-1/2"-3/4"		



UTK-SF-29 SET	29	COMPREHENSIVE SET 1/16 to 1/2 by 64ths
Drill or Reamer Bushings		
Set includes TWENTY-NINE SF Bushings all 1/2" long: 1 each SF-20-8- 1/16, 5/64, 3/32, 7/64, 1/8, 9/64, 5/32, 11/64, 3/16 SF-32-8- 13/64, 7/32, 15/64, 1/4, 17/64, 9/32, 19/64, 5/16, 21/64, 11/32 SF-48-8- 23/64, 3/8, 25/64, 13/32, 27/64, 7/16, 29/64, 5/32, 31/64, 1/2		
Order as: UTK-SFD-29 DRILL BUSHINGS SET UTK-SFD-29-DB DRILL BUSHINGS & 2 DRILL BARS-5/16-1/2-3/4" UTK-SFR-29 REAMER BUSHINGS SET UTK-SFR-29-DB REAMER BUSHINGS & 2 DRILL BARS-5/16-1/2-3/4" UTK-SFDR-58-DB ALL Drill & Reamer Bushings above & 2 DRILL BARS-5/16-1/2-3/4"		



UTK-SF-60 SET	60	LARGE WIRE SET #60 to #1
Drill or Reamer Bushings		
Set includes SIXTY SF Bushings all 1/2" long: 1 each SF-20-8- #60, 59, 58, 57, 56, 55, 54, 53, 52, 51, 50, 49, 48, 47, 46, 45, 44, 43, 42, 41, 40, 39, 38, 37, 36, 35, 34, 33, 32, 31, 30, 29, 28, 27, 26, 25, 24, 23, 22, 21 SF-32-8- 20, 19, 18, 17, 16, 15, 14, 13, 12, 11, 10, 9, 8, 7, 6, 5, 4, 3, 2, 1		
Order as: UTK-SFD-60 DRILL BUSHINGS SET UTK-SFD-60-DB DRILL BUSHINGS WITH 1 DRILL BAR-5/16"-1/2" UTK-SFR-60 REAMER BUSHINGS SET UTK-SFR-60-DB REAMER BUSHINGS WITH 1 DRILL BAR-5/16"-1/2" UTK-SFDR-120-DB ALL Drill & Reamer Bushings above with 1 DRILL BAR-5/16"-1/2"		

ADD UNITED's Double End DRILL BARS to your SF Drill or Reamer Bushings Set.

Simplify your location and fixturing!

Drill Bars provide accurate location and alignment of drilled holes.

You get UNITED's Best Bars!

UNITED Sets satisfy the requirements of any metalworking shop.

UNITED SF DRILL & REAMER BUSHINGS
in Sets of the most popular sizes!
Sets available in **Drill Bushings (D)**, **Reamer Bushings (R)** and you can add a compact **Drill Bar (DB)**.
Specify **UTK-SF D, R** or add **DB** to Part No.
For All items, specify **UTK-SFDR- # -DB**.

TOLERANCES ON INSIDE DIAMETERS

For REAMER BUSHINGS			For DRILL BUSHINGS		
I. D. RANGE	TOLERANCE OVER NOM.		I. D. RANGE	TOLERANCE OVER NOM.	
Up to .2500	+ .0005	to + .0008	Up to .2500	+ .0001	to + .0004
Over .2500 to 1.0000	+ .0006	to + .0010	Over .2500 to .7500	+ .0001	to + .0005
Over 1.0000	+ .0008	to + .0012	Over .7500 to 1.5000	+ .0002	to + .0006
			Over 1.5000 to 1.8750	+ .0003	to + .0007

Molded Custom Cases With Matching Drill Bars

Sets of SF Bushings
with Drill Bars Added

UTK-SF- 162 SET	162 Drill or Reamer Bushings	COMPLETE SET #80 thru 13MM
-----------------------	---	--------------------------------------

Set includes ONE HUNDRED SIXTY-TWO SF Bushings all 1/2" long:

1 each:

SF-20-8- #80, 79, 1/64, 78, 77, 76, 75, 74, 73, 72, 71, 70, 69, 68, 1/32, 67, 66, 65, 64, 63, 62, 61, 1.00mm, #60, 59, 58, 57, 56, 55, 54, 1.50mm, 53, 1/16, 52, 51, 50, 49, 48, 5/64, 47, 2.00mm, 46, 45, 44, 43, 42, 3/32, 41, 40, 2.50mm, 39, 38, 37, 36, 7/64, 35, 34, 33, 32, 3.00mm, 31, 1/8, 30, 29, 3.50mm, 28, 9/64, 27, 26, 25, 24, 23, 5/32, 22, 4.00mm, 21, 20, 19, 18, 11/64

SF-32-8- 17, 16, 4.50mm, 15, 14, 13, 3/16, 12, 11, 10, 9, 5.00mm, 8, 7, 13/64, 6, 5, 4, 3, 5.50mm, 7/32, 2, 1, A, 15/64, 6.00mm, B, C, D, E, 1/4, 6.50mm, F, G, 17/64, H, I, 7.00mm, J, K, 9/32, L, M, 7.50mm, 19/64, N, 5/16, 8.00mm, O, P, 21/64, Q, 8.50mm, R, 11/32

SF-48-8- S, 9.00mm, T, 23/64, U, 9.50mm, 3/8, V, W, 25/64, 10.00mm, X, Y, 13/32, Z, 10.50mm, 27/64, 11.00mm, 7/16, 11.50mm, 29/64, 15/32, 12.00mm, 31/64, 12.50mm, 1/2, 13.00mm

Order as:

UTK-SFD-162 DRILL BUSHINGS SET
 UTK-SFD-162-DB DRILL BUSHINGS & 2 DRILL BARS 5/16"-1/2"-3/4"
 UTK-SFR-162 REAMER BUSHINGS SET
 UTK-SFR-162-DB REAMER BUSHINGS & 2 DRILL BARS 5/16"-1/2"-3/4"
 UTK-SFDR-324-DB ALL Drill & Reamer Bushings above and 2 DRILL BARS 5/16"-1/2"-3/4"



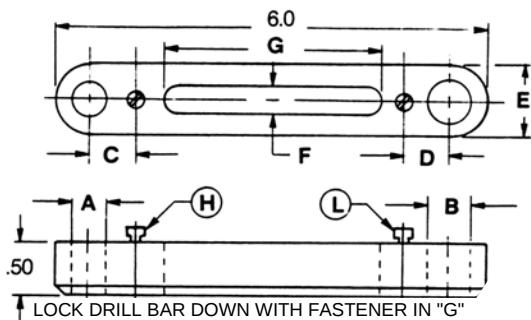
EVERY BUSHING YOU NEED IN A COMPACT
CUSTOM MOLDED CASE WITH
MATCHING DRILL BARS FROM **UNITED!**

Long Wear SF Drill & Reamer Bushings Sets!

- Premium Steel
- Durable
- Clearly labeled sizes for easy selection
- In quality custom molded cases only 2" to 3" thick
- Fits your tool box, rollaway, crib or shelf
- Organized
- Useful

UNITED Sets provide the most efficient way to keep your tools!

To get UNITED's best in matching size Drill Bars,
Simply add 'DB' to Part No. and we will do the rest!



DOUBLE END DRILL BARS

UNITED PART NO.	A +.0005 -.0000	B +.0005 -.0000	C	D	E	F	G Travel	Lockscrews included H L		Use with Bushings
DBL-20-32	.3126	.5003	.500	.625	3/4	3/8	3-1/8	LS-1	LS-1	SF20-8 / SF32-8
DBL-32-48	.5003	.7503	.625	.578	1-1/8	3/8	2-5/8	LS-1	LS-1	SF32-8 / SF48-8



Handle Bushing and Drill Stand Kit

Twisfit Handle and Drill Stand SF Bushing Kit



Ideal For Use in Hole Transfer!

This UTK-649 Kit is representative of *UNITED* Kits available for these tools when drilling or reaming cannot be reached with stationary or permanent tools. This Hole Transfer Kit was designed at *UNITED* and is specified for Lockheed's latest F-16 Aircraft. Send us your specifications.

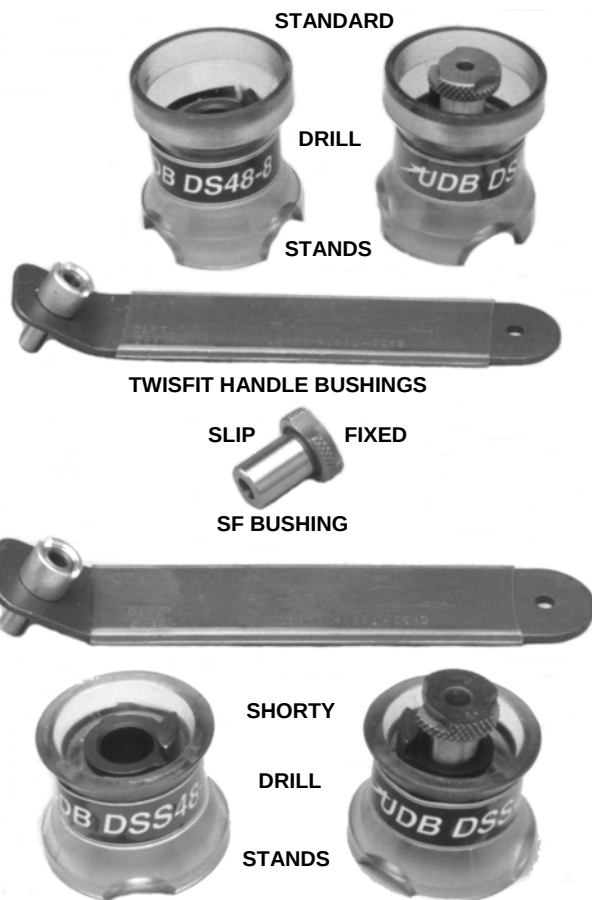
Twisfit Bushings are reusable and replaceable. The handle has a comfortable plastic grip. A large variety of Slip Fixed Handle Bushings are available to satisfy your specific requirements.

Our light transparent and tough Drill Stand is designed to use with irregular or contoured surfaces. Does not crack and seats firmly to irregular surfaces. Assures 90° drill alignment.

UTK-649 Twisfit Handle Bushing and Drill Stand Kit

UTK-649 KIT CONTENTS

1	UTK-649 KIT ASSEMBLY			
QTY	PART NO.	I.D.	O.D.	LENGTH
HANDLE BUSHINGS				
2	UDB-752417	.1562 (5/32)	.266	1/2
2	UDB-752417	.1562 (5/32)	.261	1/2
2	UDB-752417	.1562 (5/32)	.257	1/2
2	UDB-752416	.1562 (5/32)	.250	1/2
2	UDB-752413	.1285 (#30)	.204	1/2
2	UDB-752413	.1285 (#30)	.199	1/2
2	UDB-752413	.1285 (#30)	.191	1/2
2	UDB-752412	.1285 (#30)	.166	1/2
2	UDB-752412	.1285 (#30)	.161	1/2
2	UDB-752410	.0980 (#40)	.156	1/2
SLIP-FIXED RENEWABLE BUSHINGS				
2	UDB-SF-32-12	.2660 (H)	1/2	3/4
2	UDB-SF-32-12	.2610 (G)	1/2	3/4
2	UDB-SF-32-12	.2570 (F)	1/2	3/4
2	UDB-SF-32-12	.2500 (E)	1/2	3/4
2	UDB-SF-32-12	.2040 (#6)	1/2	3/4
2	UDB-SF-32-12	.1990 (#8)	1/2	3/4
2	UDB-SF-32-12	.1910 (#11)	1/2	3/4
2	UDB-SF-32-12	.1660 (#19)	1/2	3/4
2	UDB-SF-32-12	.1610 (#20)	1/2	3/4
2	UDB-SF-32-12	.1562 (5/32)	1/2	3/4
2	UDB-SF-32-12	.1285 (#30)	1/2	3/4
2	UDB-SF-32-12	.0980 (#40)	1/2	3/4
2	UDB-DSS-48-12	DRILL STAND SHORTY 1/2" I.D.		
2	UDB-DS-48-8	STANDARD DRILL STAND 1/2" I.D.		



Send us your requirements and we will design your Special Kit to get your job finished on time!

UNITED Street Plate Lifting System®

**Street Plate
Lifting System**

STREET PLATE LIFTING RINGS

UNITED Street Plate Lifting Rings enable the fastest and safest handling of heavy steel plates commonly used to cover trenches and excavations in streets and roadways to facilitate traffic flow during construction or repair. Used by Utility and Construction Companies.

**Swivels
360°**

**Pivots
180°**



PATENT #6,161,883 & 6,161,884

SAFETY FACTOR: 5:1

**MATERIAL:
Alloy Material**

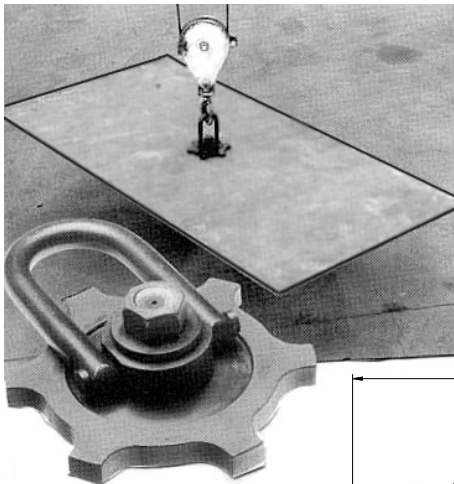
**FINISH:
Phosphate per DOD-P-16232F**

Magnetic Particle Inspected

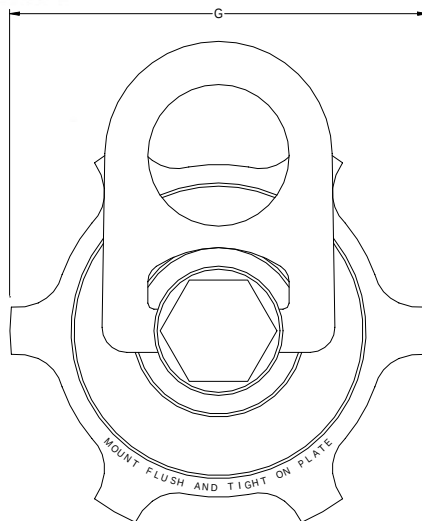
Certified Heat Treatment

200% Proof-Load Tested

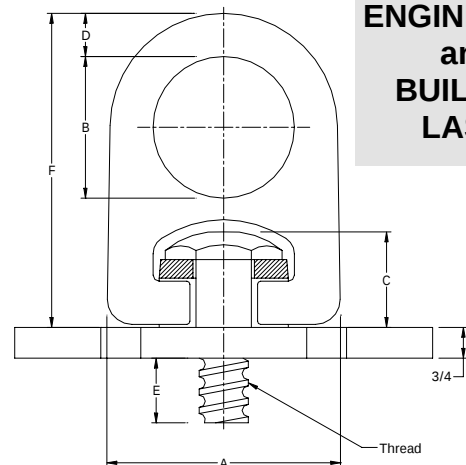
Other Sizes Available



**Forged Hoist Ring Kits
Available in most sizes.
Please call UNITED.**



**No tools required with Weld-In Nut!
Please see Page K12 for Plate Nuts and Accessories.**



**SAFETY
ENGINEERED
and
BUILT TO
LAST!**

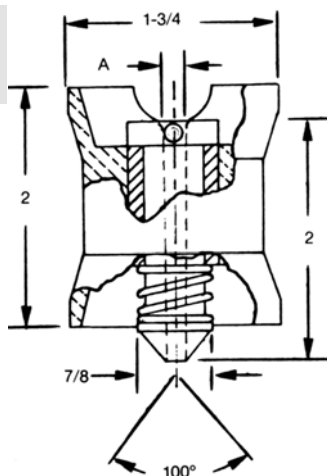


Part No.	Rated Load (lbs)	A	B	C	D	E	F	G	Thread Type	Thread Size	Torque Ft/Lbs
UDB-938215	10,000	5.40	3.20	2.62	1	1	7.48	7	Coil	1-1/4	230
UDB-938225	10,000	5.40	3.20	2.62	1	1-1/2	7.48	7	Coil	1-1/2	470
UDB-938865	15,000	6.75	4	3.28	1-1/4	1	9.35	9	Coil	1-1/4	230
UDB-938875	15,000	6.75	4	3.28	1-1/4	1-1/2	9.35	9	Coil	1-1/2	470

Drill Stands and Kits & Threaded Bushings

UNITED Drill Stands Spring Loaded & Threaded

SPRING LOADED DRILL STANDS



NEW TRANSPARENT BLUE CODAR® MATERIAL
HIGH IMPACT STRENGTH
RESISTANT TO AIRCRAFT FUELS

Spring Loaded Bushing in a Plastic Drill Stand can be used to transfer countersunk pilot holes into mating blank parts.

Manufactured from tough unbreakable plastic.

See page B10 for
Drill Stands and
Handle Bushing
Kits.

UNITED PART NO.	A I. D. RANGE
DSP-40-32	#40 - 5/16

To order, specify Part Number and I. D.
Example: **DSP-40-32-1/4**



KITS with MATCHING BUSHINGS in a variety of sizes!

Align
Drills and Reamers 90° to surface.

Transparent high impact strength
plastic allows view of work and
prevents skin damage.

Hardened bushings are interchangeable.



UDB-DSTAB-32-12-S DRILL STANDS and BUSHINGS SET

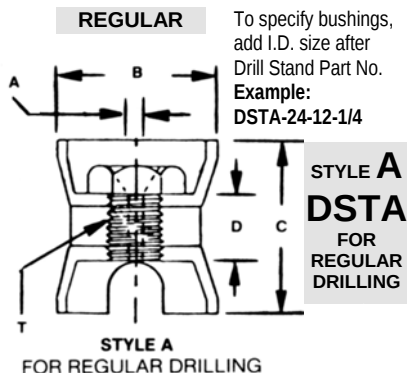
Contents: 2 ea: DSTA-32-12 Drill Stands (Standard)
1 ea: DSTB-32-12 Drill Stand (Short)
1 ea: TB-32-12 Threaded Bushings (1/2-13) in
I.D. Sizes: #40, 30, 5/32, 21, 20, 3/16, 10, 7/32, 1/4, F

UDB-DSTAB-48-16-S DRILL STANDS and BUSHINGS SET

Contents: 2 ea: DSTA-48-16 Drill Stands (Standard)
1 ea: DSTB-48-16 Drill Stand (Short)
1 ea: TB-48-16 Threaded Bushings (3/4-16) in
I.D. Sizes: 9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32,
1/2, 17/32, 9/16

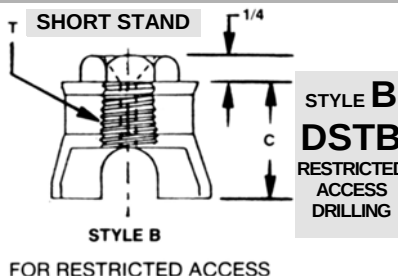
THREADED DRILL STANDS FOR REPLACEABLE BUSHINGS

Specify BUSHINGS by adding I.D. size after Drill Stand Part No.



STYLE A
FOR REGULAR DRILLING

STYLE A
DSTA
FOR
REGULAR
DRILLING



STYLE B
FOR RESTRICTED ACCESS

STYLE B
DSTB
RESTRICTED
ACCESS
DRILLING

THREADED DRILL STANDS

THREADED BUSHINGS

STAND ONLY PART NO.	STYLE	T THREAD	A I.D. RANGE	B	C	D	BUSHING ONLY	ADD I.D.
DSTA-24-12	A	24 = 3/8-16	#80 - #40	1	1-5/8	1/2	TB-24-12	XXX
DSTA-32-12	A	32 = 1/2-13	#28 - 11/32	1-5/8	1-5/8	1/2	TB-32-12	XXX
DSTA-48-16	A	48 = 3/4-16	9/32 - 1/2	1-3/4	2	3/4	TB-48-12	XXX
DSTB-24-12	B	24 = 3/8-16	#80 - #40	1	1-1/4	1/2	TB-24-12	XXX
DSTB-32-12	B	32 = 1/2-13	#28 - 11/32	1-5/8	1-1/8	1/2	TB-32-12	XXX
DSTB-48-16	B	48 = 3/4-16	9/32 - 1/2	1-3/4	1-1/2	3/4	TB-48-12	XXX

FOR STANDS—WITH BUSHINGS—SIMPLY ADD I.D.

DSTA-24-12-#30 (For Style A Regular Stand)

DSTB-24-12-#30 (For Style B Short Stand) See Column A for I.D. sizes available.

FOR BUSHINGS ONLY, 'TB' = THREADED BUSHINGS.

Available lengths under hex
head are 1/2, 3/4 and 1".

Order example:
TB-O.D.-LENGTH-I.D.
TB-3/8-16—3/4—1/4
Or ANSI
TB-24-12-1/4

3/4 Lengths provided
unless specified.



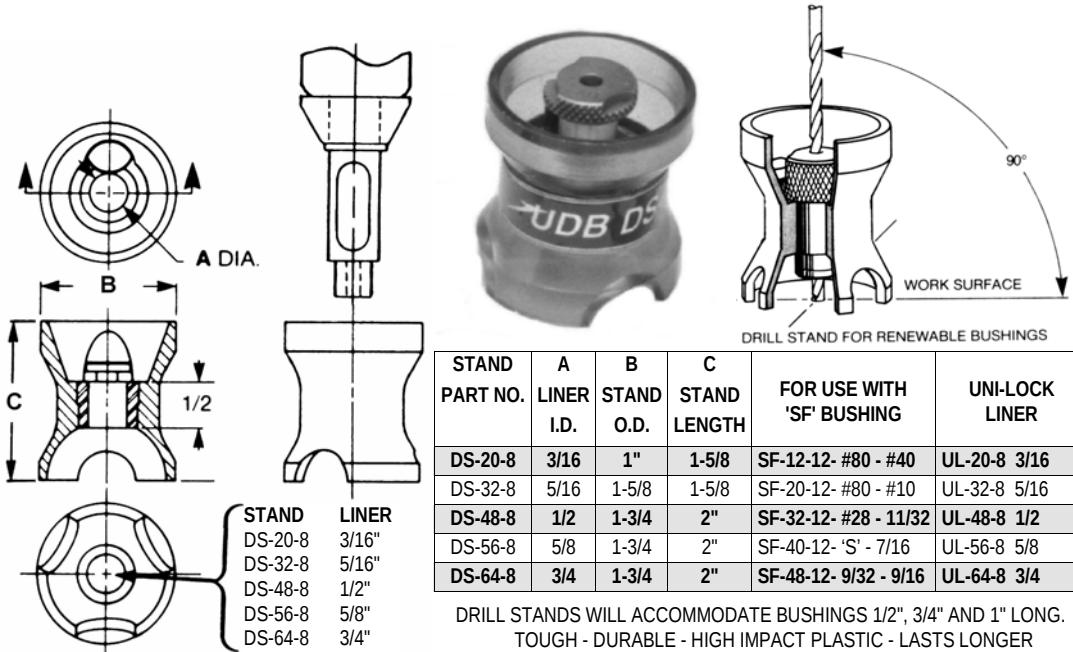
TB-24-12-I.D. 3/8 - 16 I.D. #80 - #40
TB-32-12-I.D. 1/2 - 13 I.D. #28 - 11/32
TB-48-16-I.D. 3/4 - 16 I.D. 9/32 - 1/2

Drill Stands Keep It Straight

UNITED's Portable Drill Stands keep your drills, reamers and taps 90° to your flat or curved working surface. Use the Drill Stand with **UNITED's standard Slip Renewable or Slip Fixed Bushings**. Manufactured from tough blue Codar® plastic with a precision hardened steel liner with locking lug for **S or SF Bushings**.

Drill Stands and Uni-Lock Bushings

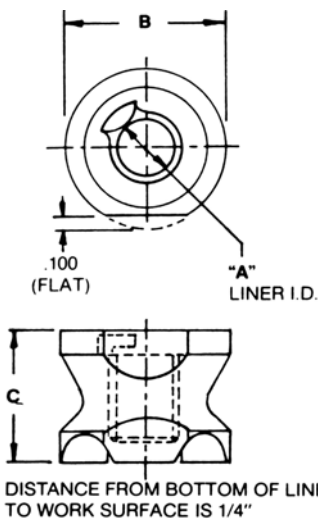
**STANDARD
DRILL
STANDS**



SEE PAGE B10 DRILL STAND KITS.

UDB-DS-654325 DRILL STANDS-LINERS SET

DS-64-8 **DS-56-8** **DS-48-8** **DS-32-8** **DS-20-8**
USE **USE** **USE** **USE** **USE**
SF-48-12-I.D. **SF-40-12-I.D.** **SF-32-12-I.D.** **SF-20-12-I.D.** **SF-12-12-I.D.**



**GREAT FOR SITUATIONS WHERE
YOU COME UP SHORT!**

**IDEAL FOR RESTRICTED AREAS.
USE WITH SF BUSHINGS — SEE
ABOVE.**

Tough Durable blue PTMT with Alloy
Steel Uni-Lock Liner.
Will accommodate bushings up to 1" long.

STAND PART NO.	A LINER I.D.	B STAND O.D.	C STAND LEN	USE 'SF' BUSHING	DRILL SIZE RANGES
DSS-24-8	3/16	1	1-3/8	SF-12-12	#80 thru #40
DSS-32-8	5/16	1-5/8	1-3/8	SF-20-12	#80 thru #10
DSS-48-8	1/2	1-3/4	1-3/8	SF-32-12	28 thru 11/32
DSS-56-8	5/8	1-3/4	1-3/8	SF-40-12	S thru 7/16
DSS-64-8	3/4	1-3/4	1-7/8	SF-48-12	9/32 thru 9/16

**SHORT
DRILL
STANDS**



UCC-HL-1 HiLok Repair Kit

Hilok-HiTigue-Lockbolt-Rivet Production and Repair Kit

Rib-I
Stacker
Case

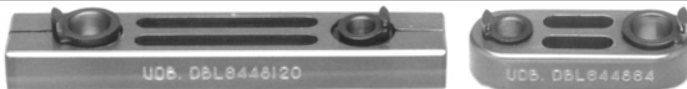


UCC-HL-1 PRODUCTION, REPAIR and TRANSFER HOLE KIT

This is a complete Kit for alignment, location, transfer, production and relocation of holes on irregular and straight surfaces using 90° perpendicularity to surfaces. Ideal for installation of HiLoks, Hitigue or Lock Bolts and Rivets.

**Easy to LOCATE - ALIGN - SPOT - CLAMP -
FASTEN IN PLACE - DRILL - REAM and
INSERT NEW FASTENERS.**

KIT CONTENTS



FIVE DRILL BARS—10 LOCK LINERS

See Page C35.

QTY	UNITED PART NO.	DESCRIPTION
1	UDB-DBL-644896	Adjustable Drill Bar - STD 1/2"-3/4"
1	UDB-DBL-644864	Adjustable Drill Bar - Mini 1/2"-3/4"
1	UDB-DBL-6448120	Swivel Drill Bar-Double End 1/2"-3/4"
1	UDB-DBLRA-646464	Drill Bar - Right Angle 3/4"
1	UDB-DBLRA-484864	Drill Bar - Right Angle 1/2"



MIGHTY MINI UNI-LITE

See Page C34.

1	UDB-HL-1-LITE	Bombsite Mini UniLite
1	UDB-HL-1-CASE	Rib-I Stacker Case Assy



EIGHT 1/2" OD
SLIP FIT
BUSHINGS
3/4" LONG
I.D.s 3/16 thru M
See pages A6-A9



EIGHT 3/4" OD
SLIP FIT
BUSHINGS
3/4" LONG
I.D.s 5/16" to 3/8"
See pages A6-A9.



1	UDB-SF32-12 .1860	.1860 x 1/2" x 3/4" SF Bushing
1	UDB-SF32-12 #8	.1990 x 1/2" x 3/4" SF Bushing
1	UDB-SF32-12 .2140	.2140 x 1/2" x 3/4" SF Bushing
1	UDB-SF32-12 .2295	.2295 x 1/2" x 3/4" SF Bushing
1	UDB-SF32-12 D	.2460 x 1/2" x 3/4" SF Bushing
1	UDB-SF32-12 G	.2610 x 1/2" x 3/4" SF Bushing
1	UDB-SF32-12 J	.2790 x 1/2" x 3/4" SF Bushing
1	UDB-SF32-12 .2920	.2920 x 1/2" x 3/4" SF Bushing
1	UDB-SF48-12 .3085	.3085 x 3/4" x 3/4" SF Bushing
1	UDB-SF48-12 P	.3230 x 3/4" x 3/4" SF Bushing
1	UDB-SF48-12 R	.3390 x 3/4" x 3/4" SF Bushing
1	UDB-SF48-12 8mm	.3543 x 3/4" x 3/4" SF Bushing
1	UDB-SF48-12 .3710	.3710 x 3/4" x 3/4" SF Bushing
1	UDB-SF48-12 W	.3860 x 3/4" x 3/4" SF Bushing
1	UDB-SF48-12 .4015	.4015 x 3/4" x 3/4" SF Bushing
1	UDB-SF48-12 .4170	.4170 x 3/4" x 3/4" SF Bushing



EIGHT BOMBSITES

See Pages C30, C34.

1	UDB-SB322034 Nominal	Bombsite, 3/16" - 1/4" STD
1	UDB-SB322034-1OS	Bombsite, 3/16" - 1/4" 1st O/S
1	UDB-SB322034-2OS	Bombsite, 3/16" - 1/4" 2nd O/S
1	UDB-SB322034-3OS	Bombsite, 3/16" - 1/4" 3rd O/S
1	UDB-482056 Nominal	Bombsite, 5/16" - 3/8" STD
1	UDB-482056-1OS	Bombsite, 5/16" - 3/8" 1st O/S
1	UDB-482056-2OS	Bombsite, 5/16" - 3/8" 2nd O/S
1	UDB-482056-3OS	Bombsite, 5/16" - 3/8" 3rd O/S



See Page M3.

26 PRECISION GROUND LOCATING PINS - CENTER PUNCH POINTS

1	UDB-141860	.1860 Locating Alignment Punch
1	UDB-141990	.1990 Locating Alignment Punch
1	UDB-142140	.2140 Locating Alignment Punch
1	UDB-142295	.2295 Locating Alignment Punch
1	UDB-142460	.2460 Locating Alignment Punch
1	UDB-142610	.2610 Locating Alignment Punch
1	UDB-142770	.2770 Locating Alignment Punch
1	UDB-142920	.2920 Locating Alignment Punch
1	UDB-143085	.3085 Locating Alignment Punch
1	UDB-143230	.3230 Locating Alignment Punch
1	UDB-143390	.3390 Locating Alignment Punch
1	UDB-143543	.3543 Locating Alignment Punch
1	UDB-143710	.3710 Locating Alignment Punch
1	UDB-143860	.3860 Locating Alignment Punch
1	UDB-144015	.4015 Locating Alignment Punch
1	UDB-144170	.4170 Locating Alignment Punch

Handy Adjustable Drill Bar Sets

Double End Adjustable Drill Bar Sets

UDB-DBS-1 TWO DRILL BARS and TWO SPOTTERS

UDB-DBS-1 ADJUSTABLE DRILL BAR SET includes Two Drill Bars and Two corresponding Spotters. The **Adjustable Drill Bars** have hardened steel liners to accommodate **1/2" and 3/4" Spotters**. In addition, appropriate Lock Screws are provided to secure **UNITED's** Slip Fit Renewable Bushings.

The **SET** includes the **Spotter SB-32-20**, the **Spotter SB-48-20**, the **Adjustable Drill Bar DBL-48-12** and the **Adjustable Drill Bar DBL-64-12** packaged with in an attractive compact **Molded Custom Case**.

UNITED OFFERS A LARGE VARIETY OF DRILL BARS AND BUSHING SETS. REFER TO PAGES A16 THRU A19 FOR OTHER STYLES.

UDB-DBS-1



UDB-DBS-2 ADJUSTABLE DRILL BAR and 12 BUSHINGS

UDB-DBS-2 ADJUSTABLE DRILL BAR SET includes a Drill Bar to accept the 1/2" Spotter and Bushings. With the Drill Bar is a Set of **Twelve Fixed Slip Renewable Bushings** in O.D. sizes: **5/32, #20, 3/16, #10, 7/32, 15/64, 1/4, F, 17/64, 9/32, 5/16 and 11/32**.

The **SET** includes the **Spotter SB-32-20** and the **Twelve SF-32-12 Bushings** packaged with the **Adjustable Drill Bar DBL-48-12** in a compact **Molded Custom Case**.

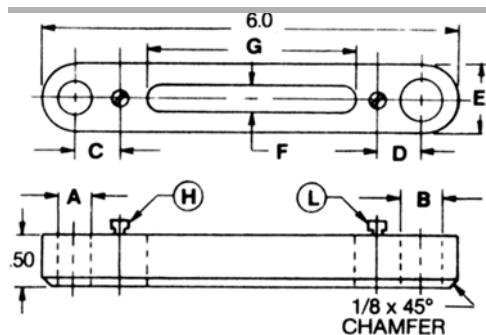
UDB-DBS-3 ADJUSTABLE DRILL BAR and 10 BUSHINGS

UDB-DBS-3 ADJUSTABLE DRILL BAR SET includes a Drill Bar to accept the 3/4" Spotter and Bushings. With the Drill Bar is a Set of **Ten Fixed Slip Renewable Bushings** in O.D. sizes: **9/32, 5/16, 11/32, 3/8, 13/32, 7/16, 15/32, 1/2, 17/32 and 9/16**.

The **SET** includes the **Spotter SB-48-20** and the **Ten SF-48-12 Bushings** packaged with the **Adjustable Drill Bar DBL-64-12** in a compact **Molded Custom Case**.



UDB-DBS-2



ADJUSTABLE DOUBLE END DRILL BARS PROVIDE ACCURATE LOCATION and ALIGNMENT OF DRILLED HOLES



LOCK DRILL BAR DOWN WITH FASTENER IN "G" SLOT.

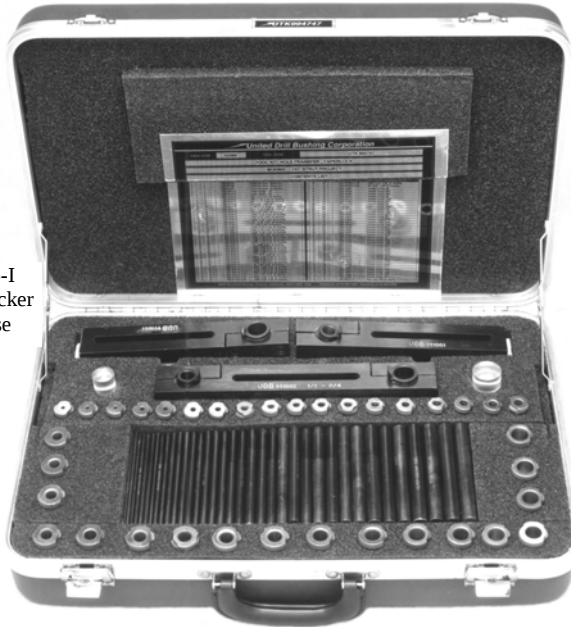
UNITED PART NO.	A +.0005 -.0000	B +.0005 -.0000	C	D	E	F	G Travel	Lockscrews included H L		Use with Bushings
DBL-16-20	.2501	.3126	.359	.500	3/4	3/8	3-1/8	TW-2	LS-1	SF-16-8/SF20-8
DBL-20-32	.3126	.5002	.500	.625	3/4	3/8	3-1/8	LS-1	LS-1	SF20-8/SF32-8
DBL-28-32	.4377	.5002	.453	.625	3/4	3/8	3-1/8	TW-2	LS-1	SF28-8/SF32-8
DBL-32-40	.5002	.6252	.625	.578	1	3/8	2-7/8	LS-1	TW-2	SF32-8/SF40-8
DBL-32-48	.5002	.7502	.625	.750	1-1/8	3/8	2-5/8	LS-1	LS-1	SF32-8/SF48-8
DBL-40-48	.6252	.7502	.578	.750	1-1/8	3/8	2-5/8	TW-2	LS-1	SF40-8/SF48-8

Hole Production Kit

Hole Alignment-Location- Production & Transfer Kit

FOR 747 STRUT PROJECT

Rib-I
Stacker
Case



UTK 994747 HOLE ALIGNMENT-LOCATION- PRODUCTION-TRANSFER KIT

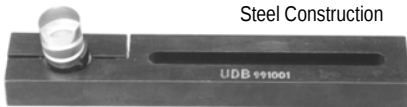
This Kit contains three Drill Bars, two Bombsite Spotters, thirty-six Slip-Fit Renewable Drill Bushings.

The thirty-six Alignment-Center Punches correspond to the Bushing I.D.s from #30 to 5/8 for a total of 78 kit items.

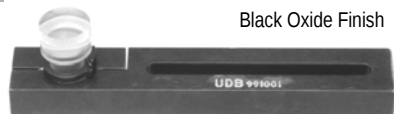
Ideal for fast and simple hole location!

KIT CONTENTS

ITEM	QTY	PART NUMBER	DESCRIPTION
1	1	UDB-991032	SWIVEL BAR ASSY- SINGLE END-1/2" I.D. UNILOCK LINER Steel Construction



2	1	UDB-991048	SWIVEL BAR ASSY-SINGLE END-3/4" I.D. UNILOCK LINER Black Oxide Finish
---	---	------------	--



3	2	UDB-994832	1/2" AND 3/4" SWIVEL BAR ASSY-DOUBLE END-1/2 & 3/4 UNILOCK LINERS
---	---	------------	---



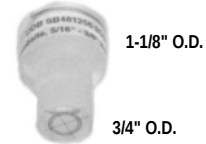
Aligned-Locked-Loaded
Ready for Cutting Chips

ITEM	QTY	PART NO.	DESCRIPTION
4	1	SB-32-20	UDB-BOMBSITE CENTER SPOTTER -1/2" O.D.
5	1	SB-48-20	UDB-BOMBSITE CENTER SPOTTER -3/4" O.D.



7/8" O.D.

1/2" O.D.



1-1/8" O.D.

3/4" O.D.

See Page C30.

ITEM	I.D.	ITEM	I.D.	ITEM	I.D.	ITEM	I.D.
------	------	------	------	------	------	------	------

6	#30 = .1285	11	3/16 = .1875	16	1/4 = .2500	21	5/16 = .3125
7	9/64 = .1406	12	#10 = .1935	17	F = .2570	22	21/64 = .3218
8	5/32 = .1562	13	13/64 = .2031	18	17/64 = .2656	23	11/32 = .3451
9	#20 = .1610	14	7/32 = .2187	19	9/32 = .2812		
10	11/64 = .1719	15	15/64 = .2344	20	19/64 = .2968		



SF32-12
1/2" O.D.



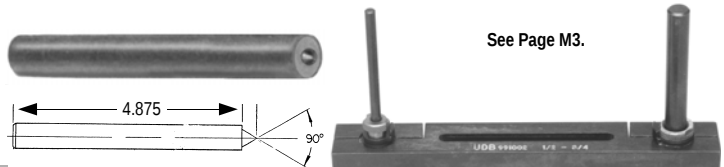
SF48-12
3/4" O.D.

See Pages A6-A7.

ITEM	I.D.	ITEM	I.D.	ITEM	I.D.	ITEM	I.D.
------	------	------	------	------	------	------	------

24	23/64 = .3594	29	7/16 = .4375	34	33/64 = .5156	39	19/32 = .5937
25	3/8 = .3750	30	29/64 = .4521	35	17/32 = .5312	40	39/64 = .6049
26	25/64 = .3906	31	15/32 = .4688	36	35/64 = .5469	41	5/8 = .6250
27	13/32 = .4062	32	31/64 = .4844	37	9/16 = .5625		
28	27/64 = .4219	33	1/2 = .5000	38	37/64 = .5781		

36	1 EACH--See P/Ns Below	ALIGNMENT - CENTER PUNCHES
----	------------------------	----------------------------



See Page M3.

ITEM	UNITED PART NO.	ITEM	UNITED PART NO.
42	UDB-141285 #30 .1285	60	UDB-143594 23/64" .3594
43	UDB-141406 9/64" .1406	61	UDB-143750 3/8" .3750
44	UDB-141562 5/32" .1562	62	UDB-143906 25/64" .3906
45	UDB-141610 #20 .1610	63	UDB-144062 13/32" .4062
46	UDB-141719 11/64" .1719	64	UDB-144219 27/64" .4219
47	UDB-141875 3/16" .1875	65	UDB-144375 7/16" .4375
48	UDB-141935 #10 .1935	66	UDB-144531 29/64" .4531
49	UDB-142031 13/64" .2031	67	UDB-144687 15/32" .4687
50	UDB-142187 7/32" .2187	68	UDB-144843 31/64" .4843
51	UDB-142344 15/64" .2344	69	UDB-145000 1/2" .5000
52	UDB-142500 1/4" .2500	70	UDB-145156 33/64" .5156
53	UDB-142570 F" .2570	71	UDB-145312 17/32" .5312
54	UDB-142656 17/64" .2656	72	UDB-145469 35/64" .5469
55	UDB-142812 9/32" .2812	73	UDB-145625 9/16" .5625
56	UDB-142968 19/64" .2968	74	UDB-145781 37/64" .5781
57	UDB-143125 5/16" .3125	75	UDB-145937 19/32" .5937
58	UDB-143281 21/64" .3281	76	UDB-146094 39/64" .6049
59	UDB-143437 11/32" .3437	77	UDB-146250 5/8" .6250

78	1	UCC-994747-78	RIB-I STACKER CASE WITH FOAM INSERTS
----	---	---------------	--------------------------------------

New Jigs to Close Space Nurlock Adapter Tips, Liners, Locating Lock Screws and TLC Clamps

New Universal Locating and Spacing Fixtures, Nurlock Shanks, Collars, Lock Screws and TLC Clamps. Spacing and location of lock screws and TLC clamps is achieved instantly!

THREE SIMPLE STEPS:

REF UTK-200118

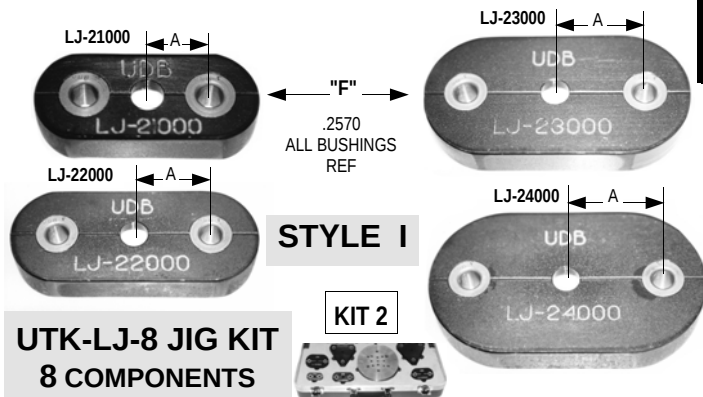
1. Select Locating Shanks and Adapters (LSA) that match your shank O.D.'s.
2. Select the Locating Jig that matches your Nurlock Adapter Tip Collar Series. Attach the Locating Shank Adapter to the Locating Jig with the 5/16-18 UNC Socket Head Screw. Your Jig is now complete!
3. Insert the Jig with the Locating Shank Adapter O.D. into the I.D. of your fixture hole or liner. Align to your drill line. Clamp, drill and tap thru jig bushing for correct spacing and lock screw or TLC location.

UTK-LJU-44 JIG KIT UNIVERSAL LOCATING JIG

UTK-LJU-44
MASTER
JIG KIT 44
COMPONENTS



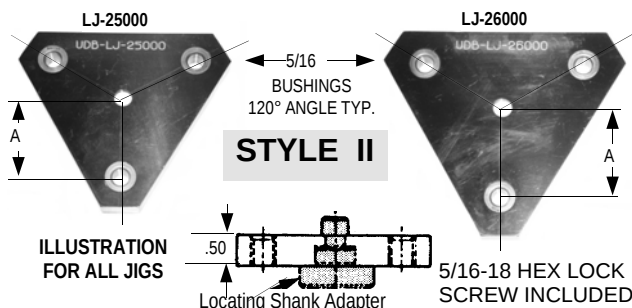
Rib-I
Stacker
Case



UTK-LJ-8 JIG KIT
8 COMPONENTS

KIT 2

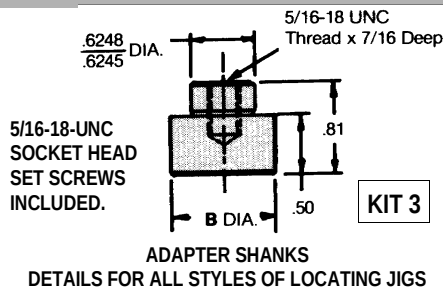
UTK-LJU-44 KIT CONTAINS ALL 44 COMPONENTS ON THIS PAGE:
SHANKS, ADAPTERS, BUSHINGS, JIGS, SCREWS & CUSTOM CASE.



UDB-LJ-8 KIT CONTAINS ALL 7 JIGS SHOWN THIS PAGE IN A CUSTOM-FITTED CASE WITH TOP & BOTTOM LAYOUT INSERTS.

UNITED PART NO.	A DIM	STYLE	LOCKSCREW TLC CLAMP NO.	UNITED PART NO.	A DIM	STYLE	LOCKSCREW TLC CLAMP NO.	UNITED PART NO.	A DIM	STYLE	LOCKSCREW TLC CLAMP NO.
LJ-21000	.625	I	16531 - TLC 2	LJ-23000	1.078	I	16532 - TLC 2	LJ-25000	1.562	II	16530 - TLC 3
LJ-22000	.953	I	16532 - TLC 2	LJ-24000	1.203	I	16532 - TLC 2	LJ-26000	1.687	II	16530 - TLC 3

UNITED PART NO.	B DIA.	UNITED PART NO.	B DIA.
LSA-1	.3745	LSA-10	1.1245
LSA-2	.4370	LSA-11	1.2495
LSA-3	.4995	LSA-12	1.3745
LSA-4	.5620	LSA-13	1.4995
LSA-5	.6245	LSA-14	1.6245
LSA-6	.7495	LSA-15	1.7495
LSA-7	.8120	LSA-16	1.9995
LSA-8	.8745	LSA-17	2.3745
LSA-9	.9995	LSA-18	2.4995

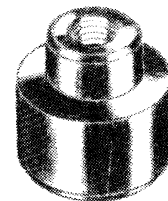


UTK-LSA-37 KIT
37 COMPONENTS

SPECIFY LSA-37 FOR KIT

CONTENTS: ALL 18 LOCATING SHANK ADAPTERS, LSA-1 THRU LSA-18, AND ALL 18 OF THE 5/16-18 UNC SOCKET HEAD SCREWS IN A CASE.

LOCATING SHANK ADAPTER



STYLE III

UTK-ULJK-38 JIG KIT
38 COMPONENTS

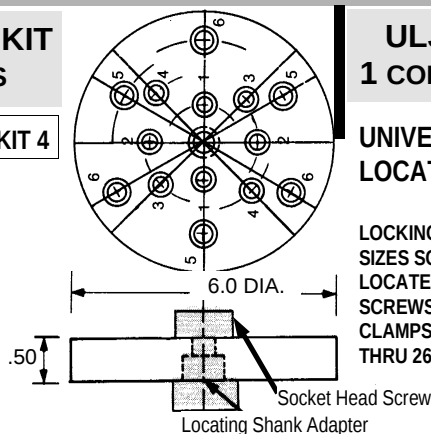
SCRIBED NUMBERS	COLLAR SERIES
1	21000
2	22000
3	23000
4	24000
5	25000
6	26000

CONTENTS: ALL 18 LOCATING SHANK ADAPTERS: LSA-1 THRU LSA-18, ALL 5/16-18 UNC SOCKET HEAD SCREWS AND THE LJ-1 UNIVERSAL LOCATING JIG, IN A CASE.

CONTAINS ALL LOCKING SERIES SIZES.
LOCATING NUMBERS DENOTE LOCKING SERIES.

4-5-04

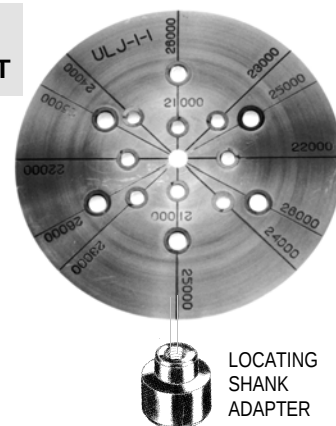
KIT 4



ULJ-1 JIG
1 COMPONENT

UNIVERSAL LOCATING JIG

LOCKING COLLAR SIZES SCRIBED TO LOCATE ALL LOCK SCREWS OR TLC CLAMPS, 21000 THRU 26000.

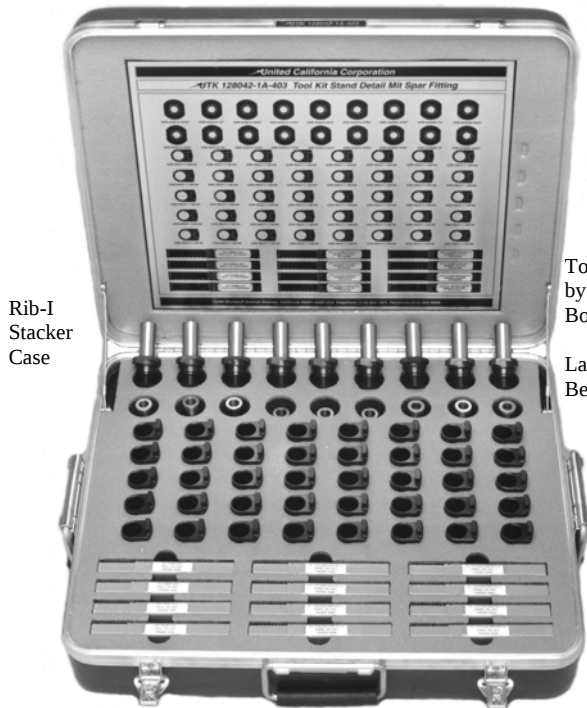


LOCATING SHANK ADAPTER

Nurlock Liners in Retrofit Kits

Helical Nurlock Liners in Retrofit- Mod-Repair & A.O.G. Custom Kits

Tool Kit Drill Stand MIT Spar Fitting



Rib-I
Stacker
Case

Tool Design
by L. Ledoux,
Boeing.

Layout by Don
Bedell, United.

Rib-I Case UCC-128042-2 is
22" L x 18" W x 6-1/2" H

This handsome Navy Blue Rib-I Stacker Case contains Lasting Latch and Heavy Duty Hardware, including self-retracting rubber grip handles and quarter-turn pressurized latch clamps.

With quantity order and reasonable lead time, **UNITED** will provide your company logo molded in the case.

A large detailed metal contents tag is mounted inside the lid listing each tool with Part No. and location. Inside hard foam is light blue hard foam for ease of part location.

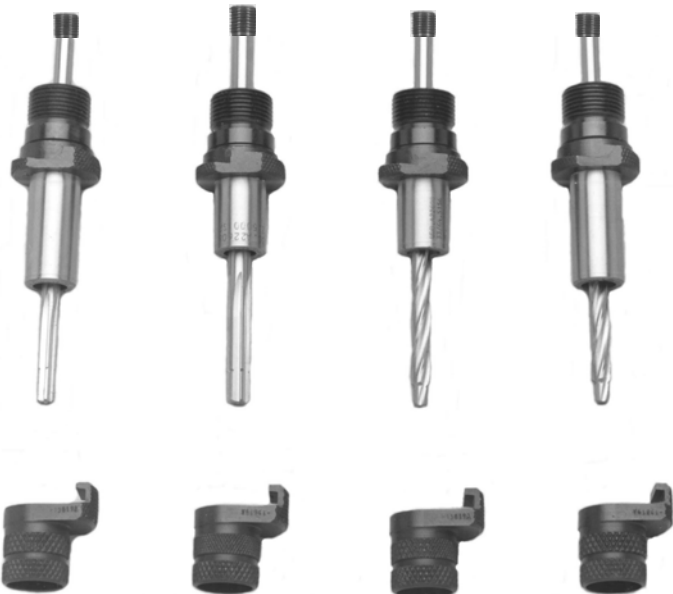
Kit Contents

12	UDBA-22615 15/32 thru 37/64 Nurlock Adapter Tips
6	UDBA-22608 15/32 thru 3-3/64 Nurlock Adapter Tips
40	UDB-HNLP-1 Single Ear Helical Nurlock Liners
2	UCC-796B-15/32 and 7/32 Custom Threaded Shanks
2	UCC-7110-1/2, 17/32, 9/16 & 37/64 Custom Piloted Oil Hole Threaded Shank Reamers

UTK-128042-1A-403 KIT

Modification, Retrofit Repair and A.O.G. Kits are manufactured with speed and alacrity for our preferred customer requirements. This Kit was designed by Senior Tool Engineer Lenny Ledoux, Boeing Everett, and manufactured for their 757 customer rework.

Coolant Oil Hole Threaded Shank Reamers



ADAPTABILITY KITS

Positive Feed Air Tools, Nosepieces, Adapters, Chucks and Accessories are kitted separately for use with those tools.

CUSTOM COMBINATION KITS

UNITED can supply you with a custom combination kit with tools for your particular needs.

A **UNITED** Engineer, experienced in Retrofit - Modification - Repair and A.O.G. Kit Design, is available to assist in selecting the correct tools, design layout, application data and case.

We will provide your requirements at reasonable cost and will guide you in any special kit conditions you require. Call or Fax us for further details. "Just in time!" Call **UNITED** — You'll be glad you did!

Master Taperlock Fastener Gauge Kit

Master TAPERLOCK Fastener Gauge Kit

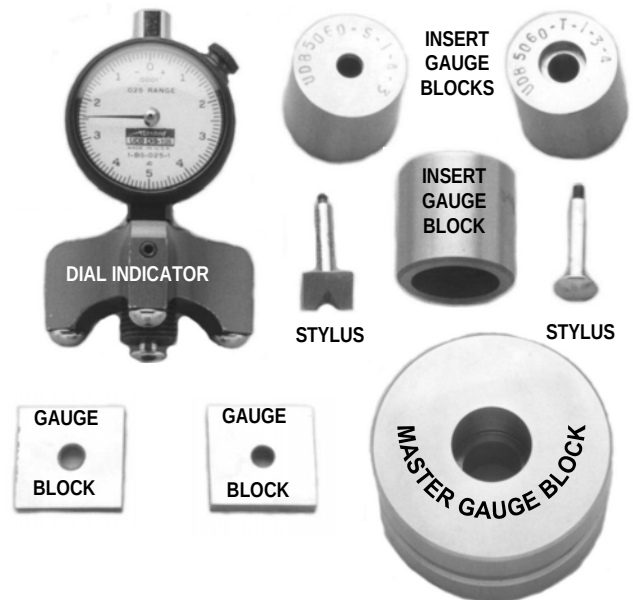


CASE SIZE IS 24" L x 24" W x 5" HEIGHT
RIB-I STACKABLE STYLE

UTK-268002-27-4 KIT, Group 1 thru 4

UNITED'S Master Taperlock Fastener Gauge Kit contains all of the required gauges and tools to inspect Taperlock Fasteners.

Kit includes all necessary gauges to check sizes for 5/32", 3/16", 1/4", 5/16", 3/8" & 7/16" Groups 1 thru 4 for both Shear Head and Tension Head Fasteners.



CONTENTS

2	UDB 5060-S-I-1-05	Insert, Gauge Block, Shear Hd., 5/32", Grp. 1	2	UDB 5060-T-I-4-3	Insert, Gauge Block, Tension Hd., 3/16", Grp. 4
2	UDB 5060-S-I-2-05	Insert, Gauge Block, Shear Hd., 5/32", Grp. 2	2	UDB 5060-T-I-1-4	Insert, Gauge Block, Tension Hd., 1/4", Grp. 1
2	UDB 5060-S-I-3-05	Insert, Gauge Block, Shear Hd., 5/32", Grp. 3	2	UDB 5060-T-I-2-4	Insert, Gauge Block, Tension Hd., 1/4", Grp. 2
2	UDB 5060-S-I-4-05	Insert, Gauge Block, Shear Hd., 5/32", Grp. 4	2	UDB 5060-T-I-3-4	Insert, Gauge Block, Tension Hd., 1/4", Grp. 3
2	UDB 5060-S-I-1-3	Insert, Gauge Block, Shear Hd., 3/16", Grp. 1	2	UDB 5060-T-I-4-4	Insert, Gauge Block, Tension Hd., 1/4", Grp. 4
2	UDB 5060-S-I-2-3	Insert, Gauge Block, Shear Hd., 3/16", Grp. 2	2	UDB 5060-T-I-1-5	Insert, Gauge Block, Tension Hd., 5/16", Grp. 1
2	UDB 5060-S-I-3-3	Insert, Gauge Block, Shear Hd., 3/16", Grp. 3	2	UDB 5060-T-I-2-5	Insert, Gauge Block, Tension Hd., 5/16", Grp. 2
2	UDB 5060-S-I-4-3	Insert, Gauge Block, Shear Hd., 3/16", Grp. 4	2	UDB 5060-T-I-3-5	Insert, Gauge Block, Tension Hd., 5/16", Grp. 3
2	UDB 5060-S-I-1-4	Insert, Gauge Block, Shear Hd., 1/4", Grp. 1	2	UDB 5060-T-I-4-5	Insert, Gauge Block, Tension Hd., 5/16", Grp. 4
2	UDB 5060-S-I-2-4	Insert, Gauge Block, Shear Hd., 1/4", Grp. 2	2	UDB 5060-1	Master Gauge Block
2	UDB 5060-S-I-3-4	Insert, Gauge Block, Shear Hd., 1/4", Grp. 3	1	UDB DI-105	Dial Indicator, .0001
2	UDB 5060-S-I-4-4	Insert, Gauge Block, Shear Hd., 1/4", Grp. 4	1	UDB DI-120	Dial Indicator, .0005
2	UDB 5060-S-I-1-5	Insert, Gauge Block, Shear Hd., 5/16", Grp. 1	1	UDB DIS-30	Stylus
2	UDB 5060-S-I-2-5	Insert, Gauge Block, Shear Hd., 5/16", Grp. 2	1	UDB DIS-40	Stylus
2	UDB 5060-S-I-3-5	Insert, Gauge Block, Shear Hd., 5/16", Grp. 3	1	UDB DIS-50	Stylus
2	UDB 5060-S-I-4-5	Insert, Gauge Block, Shear Hd., 5/16", Grp. 4	1	UTLG 5020-2M	Angle Plate Assembly
2	UDB 5060-S-I-1-6	Insert, Gauge Block, Shear Hd., 3/8", Grp. 1	1	UTLG 5121-1	Parallel Block Assembly
2	UDB 5060-S-I-2-6	Insert, Gauge Block, Shear Hd., 3/8", Grp. 2	1	UTLG 5121-2	Sine Plate Assembly
2	UDB 5060-S-I-3-6	Insert, Gauge Block, Shear Hd., 3/8", Grp. 3	1	UTLG 5015-05	Gauge Block, 5/32"
2	UDB 5060-S-I-4-6	Insert, Gauge Block, Shear Hd., 3/8", Grp. 4	1	UTLG 5015-3	Gauge Block, 3/16"
2	UDB 5060-S-I-1-7	Insert, Gauge Block, Shear Hd., 7/16", Grp. 1	1	UTLG 5015-4	Gauge Block, 1/4"
2	UDB 5060-S-I-2-7	Insert, Gauge Block, Shear Hd., 7/16", Grp. 2	1	UTLG 5015-5	Gauge Block, 5/16"
2	UDB 5060-S-I-3-7	Insert, Gauge Block, Shear Hd., 7/16", Grp. 3	1	UTLG 5015-6	Gauge Block, 3/8"
2	UDB 5060-T-I-1-3	Insert, Gauge Block, Tension Hd., 3/16", Grp. 1	1	UTLG 5015-7	Gauge Block, 7/16"
2	UDB 5060-T-I-2-3	Insert, Gauge Block, Tension Hd., 3/16", Grp. 2	1	UCC 268002-635	Rib-I Case, Foam Inserts
2	UDB 5060-T-I-3-3	Insert, Gauge Block, Tension Hd., 3/16", Grp. 3			

**Master Hole Gauge
Kit – 5/32" thru 7/16"**

Master TAPERLOCK Hole Gauge Kit Grp 1-2

UTK-268002-27-1 KIT, GROUP 1-2

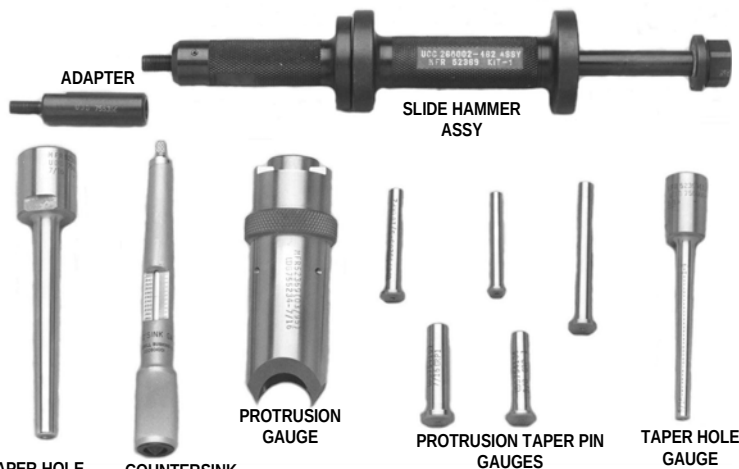
UNITED'S Master Taperlock Hole Gauge Kit contains all of the required gauges and tools to inspect Taperlock holes.

Kit contains all necessary gauging for Protrusion Check, Blueing Pin and Countersink Check for sizes 5/32", 3/16", 1/4", 5/16", 3/8" and 7/16", Group 1 & 2, for both Shear Head and Tension Head Fasteners.

CONTINUED ON NEXT PAGE.



Case UCC 268002-482 is
24" L x 24" W x 5" H Inside RIB 'I' STACK STYLE



CONTENTS

1	UCC 601001	Countersink Gauge, 100°
1	UCC 601001-19	'C' Sink Gauge Check Block
1	UCC 601001-20	Contour Gauge, 100°
1	UCC 601002	Countersink Gauge, 100°
1	UCC 601002-19	'C' Sink Gauge Check Block
1	UCC 601002-20	Contour Gauge, 100°
1	UCC 601003	Countersink Gauge, 100°
1	UCC 601003-19	'C' Sink Gauge Check Block
1	UCC 601003-20	Contour Gauge, 100°
4	UDB 754101	Pin, Protrusion Gauge, Shear Hd., 5/32", Grp. 1
2	UDB 754201	Pin, Protrusion Gauge, Shear Hd., 5/32", Grp. 2
2	UDB 754102	Pin, Protrusion Gauge, Shear Hd., 3/16", Grp. 1
4	UDB 754202	Pin, Protrusion Gauge, Shear Hd., 3/16", Grp. 2
6	UDB 754104	Pin, Protrusion Gauge, Shear Hd., 1/4", Grp. 1
3	UDB 754204	Pin, Protrusion Gauge, Shear Hd., 1/4", Grp. 2
3	UDB 754105	Pin, Protrusion Gauge, Shear Hd., 5/16", Grp. 1
2	UDB 754205	Pin, Protrusion Gauge, Shear Hd., 5/16", Grp. 2
3	UDB 754106	Pin, Protrusion Gauge, Shear Hd., 3/8", Grp. 1
2	UDB 754206	Pin, Protrusion Gauge, Shear Hd., 3/8", Grp. 2
2	UDB 754107	Pin, Protrusion Gauge, Shear Hd., 7/16", Grp. 1
4	UDB 755102	Pin, Protrusion Gauge, Tension Hd., 3/16", Grp. 1
4	UDB 755202	Pin, Protrusion Gauge, Tension Hd., 3/16", Grp. 2
6	UDB 755104	Pin, Protrusion Gauge, Tension Hd., 1/4", Grp. 1
3	UDB 755204	Pin, Protrusion Gauge, Tension Hd., 1/4", Grp. 2
3	UDB 755105	Pin, Protrusion Gauge, Tension Hd., 5/16", Grp. 1
2	UDB 755205	Pin, Protrusion Gauge, Tension Hd., 5/16", Grp. 2
1	UDB 755215	Gauge, Protrusion 5/32"
1	UDB 755216	Gauge, Protrusion 3/16"
1	UDB 755218	Gauge, Protrusion 1/4"
1	UDB 755230	Gauge, Protrusion 5/16"

1	UDB 755232	Gauge, Protrusion 3/8"
1	UDB 755234	Gauge, Protrusion 7/16"
2	UDB 756072	Gauge, Taper Hole 5/32"
4	UDB 756076	Gauge, Taper Hole 3/16"
2	UDB 756082	Gauge, Taper Hole 1/4"
2	UDB 756086	Gauge, Taper Hole 5/16"
2	UDB 756090	Gauge, Taper Hole 3/8"
2	UDB 756094	Gauge, Taper Hole 7/16"
1	UDB 755461	Slide Hammer Assembly
1	UDB 755365	Adapter, 9/16"-18 Thread
1	UDB 755366	Adapter, 5/16"-24 Thread
2	UDB 5120-100-1-05	Gauge, C'Sink, 100°, Shear Hd., 5/32", Grp. 1
2	UDB 5120-100-2-05	Gauge, C'Sink, 100°, Shear Hd., 5/32", Grp. 2
4	UDB 5120-100-1-3	Gauge, C'Sink, 100°, Shear Hd., 3/16", Grp. 1
3	UDB 5120-100-2-3	Gauge, C'Sink, 100°, Shear Hd., 3/16", Grp. 2
6	UDB 5120-100-1-4	Gauge, C'Sink, 100°, Shear Hd., 1/4", Grp. 1
3	UDB 5120-100-2-4	Gauge, C'Sink, 100°, Shear Hd., 1/4", Grp. 2
3	UDB 5120-100-1-5	Gauge, C'Sink, 100°, Shear Hd., 5/16", Grp. 1
2	UDB 5120-100-2-5	Gauge, C'Sink, 100°, Shear Hd., 5/16", Grp. 2
3	UDB 5120-100-1-6	Gauge, C'Sink, 100°, Shear Hd., 3/8", Grp. 1
2	UDB 5120-100-2-6	Gauge, C'Sink, 100°, Shear Hd., 3/8", Grp. 2
2	UDB 5120-100-1-7	Gauge, C'Sink, 100°, Shear Hd., 7/16", Grp. 1
4	UDB 5120-300-1-3	Gauge, C'Sink, 100°, Tension Hd., 3/16", Grp. 1
3	UDB 5120-300-2-3	Gauge, C'Sink, 100°, Tension Hd., 3/16", Grp. 2
6	UDB 5120-300-1-4	Gauge, C'Sink, 100°, Tension Hd., 1/4", Grp. 1
3	UDB 5120-300-2-4	Gauge, C'Sink, 100°, Tension Hd., 1/4", Grp. 2
3	UDB 5120-300-1-5	Gauge, C'Sink, 100°, Tension Hd., 5/16", Grp. 1
2	UDB 5120-300-2-5	Gauge, C'Sink, 100°, Tension Hd., 5/16", Grp. 2
1	UCC 268002-482	Rib-I Case, With Foam Inserts

TAPERLOCK Hole Gauge Kit Grp 2-3 and Grp 3-4

Master Hole Gauge
Kit Grp. 2-3 & 3-4

UTK-268002-27-2 KIT, GROUP 2-3

1	UCC 601001	Countersink Gauge, 100°
1	UCC 601001-19	'C' Sink Gauge Check Block
1	UCC 601001-20	Contour Gauge, 100°
1	UCC 601002	Countersink Gauge, 100°
1	UCC 601002-19	'C' Sink Gauge Check Block
1	UCC 601002-20	Contour Gauge, 100°
1	UCC 601003	Countersink Gauge, 100°
1	UCC 601003-19	'C' Sink Gauge Check Block
1	UCC 601003-20	Contour Gauge, 100°
2	UDB 754201	Pin, Protrusion Gauge, Shear Hd., 5/32", Grp. 2
3	UDB 754301	Pin, Protrusion Gauge, Shear Hd., 5/32", Grp. 3
4	UDB 754202	Pin, Protrusion Gauge, Shear Hd., 3/16", Grp. 2
3	UDB 754302	Pin, Protrusion Gauge, Shear Hd., 3/16", Grp. 3
3	UDB 754204	Pin, Protrusion Gauge, Shear Hd., 1/4", Grp. 2
3	UDB 754304	Pin, Protrusion Gauge, Shear Hd., 1/4", Grp. 3
2	UDB 754205	Pin, Protrusion Gauge, Shear Hd., 5/16", Grp. 2
2	UDB 754305	Pin, Protrusion Gauge, Shear Hd., 5/16", Grp. 3
2	UDB 754206	Pin, Protrusion Gauge, Shear Hd., 3/8", Grp. 2
2	UDB 754306	Pin, Protrusion Gauge, Shear Hd., 3/8", Grp. 3
2	UDB 754207	Pin, Protrusion Gauge, Shear Hd., 7/16", Grp. 2
3	UDB 755302	Pin, Protrusion Gauge, Tension Hd., 3/16", Grp. 2
3	UDB 755204	Pin, Protrusion Gauge, Tension Hd., 1/4", Grp. 2
3	UDB 755304	Pin, Protrusion Gauge, Tension Hd., 1/4", Grp. 3
2	UDB 755205	Pin, Protrusion Gauge, Tension Hd., 5/16", Grp. 2
2	UDB 755305	Pin, Protrusion Gauge, Tension Hd., 5/16", Grp. 3
1	UDB 755215	Gauge, Protrusion 5/32"
1	UDB 755216	Gauge, Protrusion 3/16"
1	UDB 755218	Gauge, Protrusion 1/4"
1	UDB 755230	Gauge, Protrusion 5/16"

CONTENTS CONTINUED FROM PG S2.

1	UDB 755232	Gauge, Protrusion 3/8"
1	UDB 755234	Gauge, Protrusion 7/16"
2	UDB 756072	Gauge, Taper Hole 5/32"
4	UDB 756076	Gauge, Taper Hole 3/16"
2	UDB 756082	Gauge, Taper Hole 1/4"
2	UDB 756086	Gauge, Taper Hole 5/16"
2	UDB 756090	Gauge, Taper Hole 3/8"
2	UDB 756094	Gauge, Taper Hole 7/16"
1	UDB 755461	Slide Hammer Assembly
1	UDB 755365	Adapter, 9/16"-18 Thread
1	UDB 755366	Adapter, 5/16"-24 Thread
2	UDB 5120-100-2-05	Gauge, C'Sink, 100°, Shear Hd., 5/32", Grp. 2
3	UDB 5120-100-3-05	Gauge, C'Sink, 100°, Shear Hd., 5/32", Grp. 3
3	UDB 5120-100-2-3	Gauge, C'Sink, 100°, Shear Hd., 3/16", Grp. 2
3	UDB 5120-100-3-3	Gauge, C'Sink, 100°, Shear Hd., 3/16", Grp. 3
3	UDB 5120-100-2-4	Gauge, C'Sink, 100°, Shear Hd., 1/4", Grp. 2
3	UDB 5120-100-3-4	Gauge, C'Sink, 100°, Shear Hd., 1/4", Grp. 3
2	UDB 5120-100-2-5	Gauge, C'Sink, 100°, Shear Hd., 5/16", Grp. 2
2	UDB 5120-100-3-5	Gauge, C'Sink, 100°, Shear Hd., 5/16", Grp. 3
2	UDB 5120-100-2-6	Gauge, C'Sink, 100°, Shear Hd., 3/8", Grp. 2
2	UDB 5120-100-3-6	Gauge, C'Sink, 100°, Shear Hd., 3/8", Grp. 3
2	UDB 5120-100-2-7	Gauge, C'Sink, 100°, Shear Hd., 7/16", Grp. 2
3	UDB 5120-300-2-3	Gauge, C'Sink, 100°, Tension Hd., 3/16", Grp. 2
3	UDB 5120-300-3-3	Gauge, C'Sink, 100°, Tension Hd., 3/16", Grp. 3
3	UDB 5120-300-2-4	Gauge, C'Sink, 100°, Tension Hd., 1/4", Grp. 2
3	UDB 5120-300-3-4	Gauge, C'Sink, 100°, Tension Hd., 1/4", Grp. 3
2	UDB 5120-300-2-5	Gauge, C'Sink, 100°, Tension Hd., 5/16", Grp. 2
2	UDB 5120-300-3-5	Gauge, C'Sink, 100°, Tension Hd., 5/16", Grp. 3
1	UCC 268002-535	Rib-I Case, Foam Inserts

UTK-268002-27-3 KIT, GROUP 3-4

1	UCC 601001	Countersink Gauge, 100°
1	UCC 601001-19	'C' Sink Gauge Check Block
1	UCC 601001-20	Contour Gauge, 100°
1	UCC 601002	Countersink Gauge, 100°
1	UCC 601002-19	'C' Sink Gauge Check Block
1	UCC 601002-20	Contour Gauge, 100°
1	UCC 601003	Countersink Gauge, 100°
1	UCC 601003-19	'C' Sink Gauge Check Block
1	UCC 601003-20	Contour Gauge, 100°
4	UDB 754202	Pin, Protrusion Gauge, Shear Hd., 3/16", Grp. 2
3	UDB 754302	Pin, Protrusion Gauge, Shear Hd., 3/16", Grp. 3
3	UDB 754402	Pin, Protrusion Gauge, Shear Hd., 3/16", Grp. 4
3	UDB 754304	Pin, Protrusion Gauge, Shear Hd., 1/4", Grp. 3
6	UDB 754404	Pin, Protrusion Gauge, Shear Hd., 1/4", Grp. 4
2	UDB 754305	Pin, Protrusion Gauge, Shear Hd., 5/16", Grp. 3
4	UDB 754405	Pin, Protrusion Gauge, Shear Hd., 5/16", Grp. 4
2	UDB 754306	Pin, Protrusion Gauge, Shear Hd., 3/8", Grp. 3
3	UDB 754406	Pin, Protrusion Gauge, Shear Hd., 3/8", Grp. 4
2	UDB 754307	Pin, Protrusion Gauge, Shear Hd., 7/16", Grp. 3
3	UDB 755302	Pin, Protrusion Gauge, Tension Hd., 3/16", Grp. 3
3	UDB 755402	Pin, Protrusion Gauge, Tension Hd., 3/16", Grp. 4
3	UDB 755304	Pin, Protrusion Gauge, Tension Hd., 1/4", Grp. 3
3	UDB 755404	Pin, Protrusion Gauge, Tension Hd., 1/4", Grp. 4
2	UDB 755305	Pin, Protrusion Gauge, Tension Hd., 5/16", Grp. 3
4	UDB 755405	Pin, Protrusion Gauge, Tension Hd., 5/16", Grp. 4
1	UDB 755215	Gauge, Protrusion 5/32"
1	UDB 755216	Gauge, Protrusion 3/16"
1	UDB 755218	Gauge, Protrusion 1/4"
1	UDB 755230	Gauge, Protrusion 5/16"

CONTENTS

1	UDB 755232	Gauge, Protrusion 3/8"
1	UDB 755234	Gauge, Protrusion 7/16"
2	UDB 756072	Gauge, Taper Hole 5/32"
4	UDB 756076	Gauge, Taper Hole 3/16"
2	UDB 756082	Gauge, Taper Hole 1/4"
2	UDB 756086	Gauge, Taper Hole 5/16"
2	UDB 756090	Gauge, Taper Hole 3/8"
2	UDB 756094	Gauge, Taper Hole 7/16"
1	UDB 755461	Slide Hammer Assembly
1	UDB 755365	Adapter, 9/16"-18 Thread
1	UDB 755366	Adapter, 5/16"-24 Thread
3	UDB 5120-100-3-05	Gauge, C'Sink, 100°, Shear Hd., 5/32", Grp. 3
4	UDB 5120-100-4-05	Gauge, C'Sink, 100°, Shear Hd., 5/32", Grp. 4
3	UDB 5120-100-3-3	Gauge, C'Sink, 100°, Shear Hd., 3/16", Grp. 3
3	UDB 5120-100-4-3	Gauge, C'Sink, 100°, Shear Hd., 3/16", Grp. 4
3	UDB 5120-100-3-4	Gauge, C'Sink, 100°, Shear Hd., 1/4", Grp. 3
3	UDB 5120-100-4-4	Gauge, C'Sink, 100°, Shear Hd., 1/4", Grp. 4
2	UDB 5120-100-3-5	Gauge, C'Sink, 100°, Shear Hd., 5/16", Grp. 3
4	UDB 5120-100-4-5	Gauge, C'Sink, 100°, Shear Hd., 5/16", Grp. 4
2	UDB 5120-100-3-6	Gauge, C'Sink, 100°, Shear Hd., 3/8", Grp. 3
3	UDB 5120-100-4-6	Gauge, C'Sink, 100°, Shear Hd., 3/8", Grp. 4
2	UDB 5120-100-3-7	Gauge, C'Sink, 100°, Shear Hd., 7/16", Grp. 3
3	UDB 5120-300-3-3	Gauge, C'Sink, 100°, Tension Hd., 3/16", Grp. 3
3	UDB 5120-300-4-3	Gauge, C'Sink, 100°, Tension Hd., 3/16", Grp. 4
3	UDB 5120-300-3-4	Gauge, C'Sink, 100°, Tension Hd., 1/4", Grp. 3
3	UDB 5120-300-4-4	Gauge, C'Sink, 100°, Tension Hd., 1/4", Grp. 4
2	UDB 5120-300-3-5	Gauge, C'Sink, 100°, Tension Hd., 5/16", Grp. 3
4	UDB 5120-300-4-5	Gauge, C'Sink, 100°, Tension Hd., 5/16", Grp. 4
1	UCC 268002-588	Rib-I Case, Foam Inserts

**Kit UDB-756200
For Hi-Lok & Hi-Tigue**

Countersink Flushness Gauge Kit



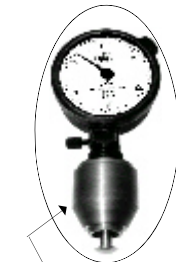
**UDB-756200 COUNTERSINK
FLUSHNESS GAUGE COMPLETE KIT**



**UDB-756253
BROAD TRIPOD
BASE**

**UDB-756251
DIAL
INDICATOR**

**UDB-756250 GAUGE ASSEMBLY
.0005 WITH BROAD BASE
INDICATOR & STYLUS**



**UDB-756255 NARROW
INDICATOR BASE ONLY**



**HANDLES
(NINE)**



**UDB-10905
HEX KEY
3/32 SHORT**

**UDB-10903
HEX KEY
1/16 LONG**



**GAUGES
(NINE)**

**UNITED KIT
FOR INSPECTION
OF CLOSE
TOLERANCES
ON FLUSH HEAD
FASTENERS**

**UDB-756249 SET OF NINE COUNTERSINK GAUGES FOR
HI-LOK and HI-TIGUE FASTENER HOLES.**



**UDB-
756236
(HLT23-6)**

**UDB-
756204
(HLT114-4)**

**UDB-
756205
(HLT115-5)**

**UDB-
756206
(HLT115-6)**

**UDB-
756208
(HLT115-8)**

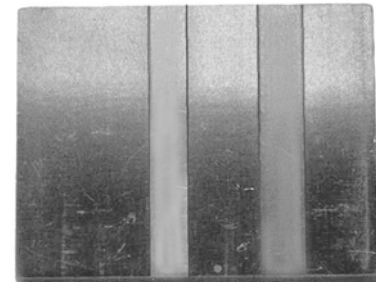
**UDB-
756210
(HLT115-10)**

**UDB-
756212
(HLT115-12)**

**UDB-
756214
(HLT115-14)**

**UDB-
756216
(HLT115-16)**

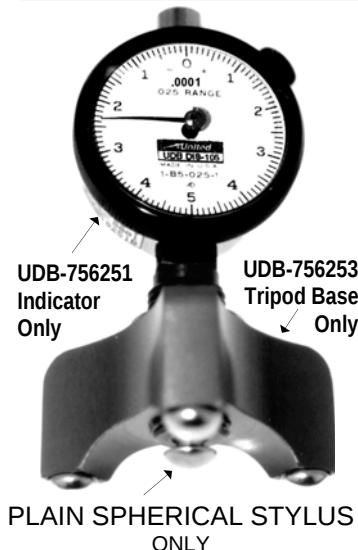
UDB-756259 CHECK BLOCK



CHECK BLOCK SETS ALL NINE GAUGES

DIAL INDICATOR

Tripod Base has contact points 2-1/4" apart. Base is counterbored 1-1/4 dia.

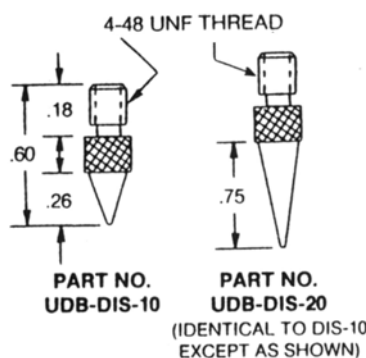


**UDB-756251
Indicator
Only**

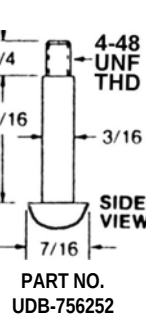
**UDB-756253
Tripod Base
Only**

**PLAIN SPHERICAL STYLUS
ONLY**

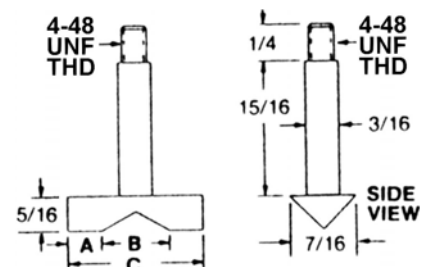
DIAL INDICATOR STYLUS



GROUP 1 PART NO.	MINIMUM GRADUATION	TOTAL RANGE
UDB-DI-105	.0001	0.025
UDB-DI-120	.0005	0.075
UDB-DI-135	.001	0.125



**MEASURES
to .0001
INCH**



PART NO.	A	B	C
UDB-DIS-30	.047	.095	.190
UDB-DIS-40	.075	.150	.300
UDB-DIS-50	.125	.250	.500
UDB-DIS-60	.200	.400	.800
UDB-DIS-70	.250	.500	1.000

Repair Kits

UniSert Kit Assortments



Each assortment contains the insert tools you need. The convenient durable case permits super clear storage and organization.

Threaded Inserts



UniSert Kit Assortments

Convenient UniSert Kits – the right Insert and the correct Installation Tool for your repairs.

UNITED KIT NO.	INSERTS INCLUDED IN KIT			TOOLS INCLUDED
	QTY	ID THD	UNITED PART NO.	
UNF FINE KIT				
UDB-1-US-F	5	#10-32	UDB-1032-US	UDB-10-UST
	10	1/4-28	UDB-1428-US	UDB-14-UST
	10	5/16-24	UDB-51624-US	UDB-516-UST
	10	3/8-24	UDB-3824-US	UDB-38-UST
	10	1/2-20	UDB-1220-US	UDB-12-UST
	10	5/8-18	UDB-5818-US	UDB-58-UST
	5	3/4-16	UDB-3416-US	UDB-34-UST
UNC COARSE KIT				
UDB-1-US-C	5	#10-24	UDB-1024-US	UDB-10-UST
	10	1/4-20	UDB-1420-US	UDB-14-UST
	10	5/16-18	UDB-51618-US	UDB-516-UST
	10	3/8-16	UDB-3816-US	UDB-38-UST
	10	1/2-13	UDB-1213-US	UDB-12-UST
	10	5/8-11	UDB-5811-US	UDB-58-UST
	5	3/4-10	UDB-3410-US	UDB-34-UST
UNC COARSE STAINLESS KIT				
UDB-1-SUS-C	5	#10-24	UDB-1024-SUS	UDB-10-UST
	10	1/4-20	UDB-1420-SUS	UDB-14-UST
	10	5/16-18	UDB-51618-SUS	UDB-516-UST
	10	3/8-16	UDB-3816-SUS	UDB-38-UST
	10	1/2-13	UDB-1213-SUS	UDB-12-UST
	10	5/8-11	UDB-5811-SUS	UDB-58-UST
	5	3/4-10	UDB-3410-SUS	UDB-34-UST
METRIC COARSE KIT				
UDB-M-1-USM-C	5	M5	UDB-M-58-USM	UDB-M-58-USMT
	10	M6	UDB-M-61-USM	UDB-M-61-USMT
	10	M8	UDB-M-8125-USM	UDB-516-UST
	10	M10	UDB-M-1015-USM	UDB-38-UST
	10	M12	UDB-M-12175-USM	UDB-M-12175-USMT
	10	M16	UDB-M-162-USM	UDB-58-UST
	5	M20	UDB-M-2025-USM	UDB-M-2015-USMT
SOLID STAINLESS STEEL KIT				
UDB-1-USS-S	QTY	O.D. THD	PART NO.	TOOLS
	5	5/16-18	UDB-51618-USS	UDB-51618-USST
	10	3/8-16	UDB-3816-USS	UDB-3816-USST
	10	1/2-13	UDB-1213-USS	UDB-1213-USST
	10	9/16-12	UDB-91612-USS	UDB-91612-USST
	10	5/8-11	UDB-5811-USS	UDB-5811-USST
	10	7/8-14	UDB-7814-USS	UDB-7814-USST
	5	1-1/8-12	UDB-11812-USS	UDB-11812-USST

UNILOCK Countersink Gauge

New & Improved UNITED'S UNILOCK Countersink Gauges and Kits

UNITED's New UNILOCK Countersink Gauge displays accurate direct countersink depth diameter with high precision. The UNILOCK Gauge is a precision instrument which specifically measures the Top major Countersink Diameter.

The UNILOCK Gauge reads the print dimension fast and accurately on the shop floor or gauge room. Press the spring loaded precise exact angle countersink plunger into the countersink. Read the dial directly in 0.002 inch or 0.05mm diameter increments in the dial face.

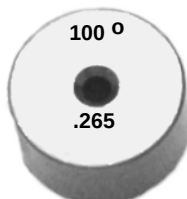
Even the inexperienced will find it virtually foolproof with its repeatable reliable results. The UNILOCK accuracy is plus or minus 0.0005 inch or plus or minus 0.015mm.



6 Inch
To
7-1/2
Inch
Length



4 Inch
Length
Add
letter 'S'
to Part
Number



CHECK BLOCK

ADD 'B' TO
Part Number
FOR CHECK
BLOCK
ONLY



CONTOUR GAUGE

ADD 'C'
FOR
CONTOUR
GAUGE
ONLY



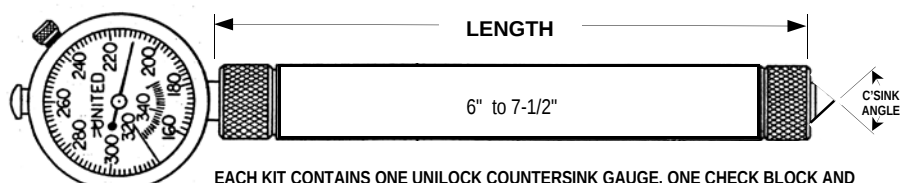
IDEAL APPLICATIONS:

- * Countersinks in Aircraft & Automotive Skin
- * Countersinks in Sheet Metal & Stampings
- * Automotive & Aircraft Assembly
- * Quality Control / Gauge Room
- * Screw Machine Components
- * Model Shop & Prototypes
- * Production Machining
- * Receiving Inspection
- * Thin Sheet of Metal
- * Rivets Holes

ADD 'G' TO FOR COUNTER-
SINK GAUGE ONLY

ADD 'B' TO FOR CHECK
BLOCK ONLY

ADD 'C' FOR CONTOUR
GAUGE ONLY



EACH KIT CONTAINS ONE UNILOCK COUNTERSINK GAUGE, ONE CHECK BLOCK AND ONE CONTOUR GAUGE SUPPLIED IN RUGGED BLACK PLASTIC CASE.

ADD 'G' TO PART NUMBER
FOR C'SINK GAUGE ONLY

KIT PART NUMBER

C'SINK ANGLE	DIAMETER RANGE						
	.020 - .170	.160 - .360	.360 - .560	.560 - 760	.780 - 1.000	1.000 - 1.335	1.000 - 1.500
82°	UCC-610820	UCC-610821	UCC-610822	UCC-610823	UCC-610824	UCC-610825	UCC-610826
90°	UCC-610900	UCC-610901	UCC-610902	UCC-610903	UCC-610904	UCC-610905	UCC-610906
100°	UCC-611000	UCC-611001	UCC-611002	UCC-611003	UCC-611004	UCC-611005	UCC-611006
110°	UCC-611100	UCC-611101	UCC-611102	UCC-611103	UCC-611104	UCC-611105	UCC-611106
120°	UCC-611200	UCC-611201	UCC-611202	UCC-611203	UCC-611204	UCC-611205	UCC-611206
LENGTH	6"	6"	6"	6"	6"	7-1/2"	7-1/2"

CHECK THE HOLES OR PRINTS WITH THE UNILOCK CONTOUR GAUGE. BE CERTAIN YOU HAVE A MATCH. KEEP GAUGE CLEAN AND IN CASE WHEN NOT IN USE.

1. PRESS CONICAL GAUGE FIRMLY INTO HOLE.
2. REST THE GAUGE BODY FIRMLY ON SURFACE AROUND COUNTERSINK.
3. READ THE DIAL DIRECTLY AND RECORD YOUR READING.

12200 WOODRUFF AVE. • DOWNEY, CA 90241-5608 • TELEPHONE (562) 803-1521 / (800) 421-3466 IN CA / (800) 486-3466 • FAX (562) 803-6898 / (800) 486-3465

EMAIL united@ucc-udb.com WEBSITE www.ucc-udb.com

3-25-08

UNITED'S Electronic Digital Countersink Gauges & Kits

UNILOCK Electronic Countersink Gauges

UNITED'S New UNILOCK ELECTRONIC COUNTERSINK GAUGE displays accurate direct countersink depth diameter with high precision.

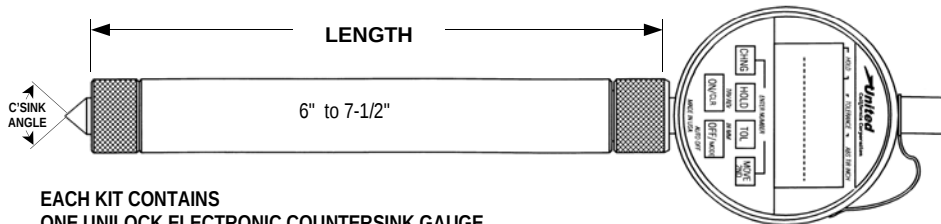
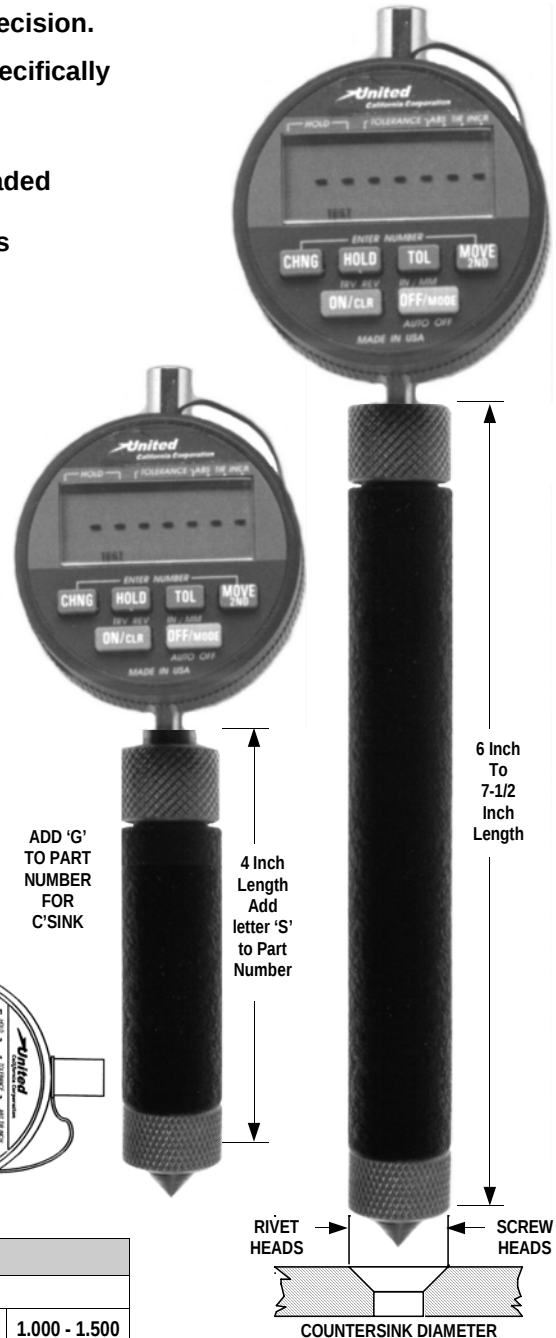
The Unilock Electronic Gauge is a precision instrument which specifically measures the Top major Countersink Diameter.

The Unilock Electronic Gauge reads the print dimension fast and accurately on the shop floor or gauge room. Press the spring loaded precise exact angle countersink plunger into the countersink. Read the electronic measurement directly in inches or millimeters on the gauge face.

Even the inexperienced will find it virtually foolproof with its repeatable reliable results. The UNILOCK accuracy is plus or minus 0.0005 inch or plus or minus 0.015mm.

IDEAL APPLICATIONS:

- * Countersinks in Aircraft & Automotive Skin
- * Countersinks in Sheet Metal & Stamping
- * Automotive & Aircraft Assembly
- * Quality Control / Gauge Room
- * Screw Machine Components
- * Model Shop & Prototypes
- * Production Machining
- * Receiving Inspection
- * Thin Sheet of Metal



EACH KIT CONTAINS
ONE UNILOCK ELECTRONIC COUNTERSINK GAUGE
SUPPLIED IN RUGGED BLACK PLASTIC CASE.

KIT PART NUMBER							
C'SINK ANGLE	DIAMETER RANGE						
	.020 - .170	.160 - .360	.360 - .560	.560 - .760	.780 - 1.000	1.000 - 1.335	1.000 - 1.500
82°	UCC-620820	UCC-620821	UCC-620822	UCC-620823	UCC-620824	UCC-620825	UCC-620826
90°	UCC-620900	UCC-620901	UCC-620902	UCC-620903	UCC-620904	UCC-620905	UCC-620906
100°	UCC-621000	UCC-621001	UCC-621002	UCC-621003	UCC-621004	UCC-621005	UCC-621006
110°	UCC-621100	UCC-621101	UCC-621102	UCC-621103	UCC-621104	UCC-621105	UCC-621106
120°	UCC-621200	UCC-621201	UCC-621202	UCC-621203	UCC-621204	UCC-621205	UCC-621206
LENGTH	6"	6"	6"	6"	6"	7-1/2"	7-1/2"

CHECK THE HOLES OR PRINTS WITH THE UNILOCK CONTOUR GAUGE. BE CERTAIN YOU HAVE A MATCH.

KEEP GAUGE CLEAN AND IN CASE WHEN NOT IN USE.

1. PRESS CONICAL GAUGE FIRMLY INTO HOLE.
2. REST THE GAUGE BODY FIRMLY ON SURFACE AROUND COUNTERSINK.
3. READ THE GAUGE FACE DIRECTLY AND RECORD YOUR READING.

UNITED'S Countersink Gauge Kits Assure Accuracy!

UNILOCK Chamfer Gauges

UNITED'S NEW UNILOCK Chamfer Gauges

UNILOCK CHAMFER GAUGES ANALOG STYLE



CHAMFER GAUGES ARE FOR INSTANT MEASURE OF TAPERED HOLES.

Precisely designed to measure the top major diameter of a chamfer, countersink or tapered hole.

Press the conically ground, spring loaded, precision 3-blade Gauging Plunger into the chamfer or countersink to read the dial instantly in .001" or .01mm/.02mm diameter increments.

Does not require setting or look-up charts!

To zero the Gauge or check setting, press the base of the Gauge against your flat surface and adjust the dial to read the 'Set To' number stamped on backside of the gauge.

Available in two angular ranges:

0° - 90° for angles of 90° or less,

90° - 127° for angles greater than 90° but less than 127°.

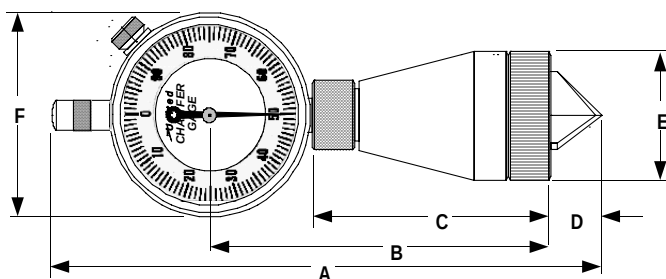
UNILOCK CHAMFER GAUGES DIGITAL STYLE



UNITED'S UNILOCK CHAMFER GAUGES ARE KNOWN FOR THEIR ACCURACY AND EASE OF USE IN PRECISION MEASURING.

THEY ARE MADE OF THE
FINEST MATERIALS AND COME IN A PROTECTIVE CASE.

HARDENED PREMIUM TOOL STEEL PLUNGER OR SOLID CARBIDE FOR A LIFETIME HEAD.
OTHER OPTIONS AVAILABLE INCLUDE .0001" SUPER READING CHAMFER GAUGES.



GAGE NO.	A	B	C	D	E	F
UCC-621090	6.30	4.00	2.80	.60	1.45	2.25
UCC-622090	6.30	4.00	2.80	.60	2.50	2.25
UCC-623090	6.30	4.00	2.80	.60	3.50	2.25
UCC-624090	6.30	4.00	2.80	.60	4.50	2.25
UCC-625090	6.30	4.00	2.80	.38	1.18	2.25

DIGITAL READOUT ELECTRONIC CHAMFER GAUGES are precision instruments similar in appearance and use to the above analog mechanical Gauges. They are completely self-contained and portable with no cables or attachments.

The indicator's special 360° rotational bezel allows you to read in any position with a high contrast LCD digital display. Equipped with rechargeable long-life batteries.