

Precision Layout Tools

Be Precise!

SCRIBE LAYOUT LINES AND PUNCH HOLE CENTERS ACCURATELY

You can **SCRIBE REFERENCE LINES** for metalworking layout within .001 inch accuracy. The machined aluminum **SCRIBE-RITE LAYOUT TOOL** is easy to operate. The Layout Tool has a removable **OPTICAL CENTERING GAUGE** with a plastic optical column. It is ground and polished to a 6 power magnification without distortion or parallax. The Optical Centering Gauge collects and concentrates room light to the surface to be viewed, avoiding use of an accessory light. Crosshairs in the viewer provide precise location of any reference point. The scribing edge of the Layout Tool is aligned with the crosshairs of the vertical Optical Centering Gauge. **UNITED's** Scribe-Rite Layout Tool has two holes. Two Optical Centering Gauges may be used to pick up the original line and simultaneously extend it to the previous line.

UNITED's 3-STEPS to Use the OPTICAL CENTERING GAUGE

1. Place the Center-Rite body over the crossed lines on your layout, and insert the Centering Gauge in the hole of the Center-Rite body.
2. Look into the Centering Gauge and move the unit until the crosshairs line up with your layout's crossed lines. A magnetic action provides resistance to slipping and locks the unit in place when center is located.
3. Remove the Optical Centering Gauge and insert the Precision Center Punch, tapping lightly with a hammer. The walls of the hole in the unit hold the punch in a straight perpendicular position to insure an accurate straight punch directly on center.

UNITED's STEPS To USE TWO (2) CENTERING GAUGES

When it is necessary to accurately extend a straight line, two centering gauges may be used to precisely line up on the original line and extend it without deviation.

The lower centering gauge is used to pick up the previously scribed line. Using the top centering gauge, the rule can be reset to a previous reference point, so the layout may be inspected or re-worked.

Complete Center-Rite Kits consist of:
 1 Center-Rite Body Unit
 1 Optical Centering Gauge
 1 Precision Center Punch.

Complete Scribe-Rite Sets consist of:
 1 Scribe-Rite Layout Tool
 1 or 2 Optical Centering Gauges
 Items may be purchased separately.



SCRIBE-RITE LAYOUT TOOL WITH OPTICAL CENTERING GAUGE



OPTICAL CENTERING GAUGE INSERTED IN CENTER-RITE BODY



VIEW THRU THE VERTICAL OPTICAL CENTERING GAUGE



PRECISION CENTER PUNCH INSERTED IN CENTER-RITE BODY



TAPPING HOLE WITH PRECISION CENTER PUNCH THRU

UNITED PART NO.	DESCRIPTION
UDB-350500	Optical Centering Gauge with Crosshairs, Only
UDB-350100	Scribe-Rite Layout Tool, Only
UDB-350150	Scribe-Rite Tool, 1 Optical Centering Gauge <i>SHOWN ABOVE</i>
UDB-350200	Scribe-Rite Tool, 2 Optical Centering Gauges
UDB-350250	Center-Rite Body Unit, Only
UDB-350300	Precision Center Punch
UDB-350350	Center-Rite Body Unit, Centering Gauge & Punch <i>SHOWN BELOW</i>



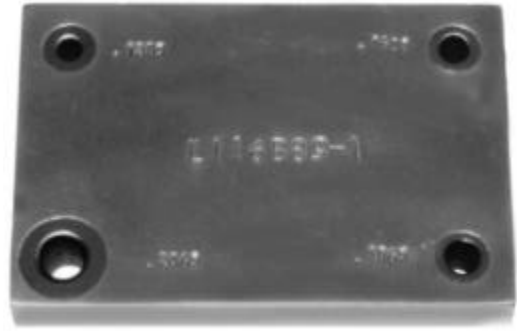
Precision Point Location
 UDB-350500 Optical Centering Gauge

Your Drill Blocks and
Bars By UNITED

TEAM UNITED Serves as Your Tool Makers' Tool Maker!



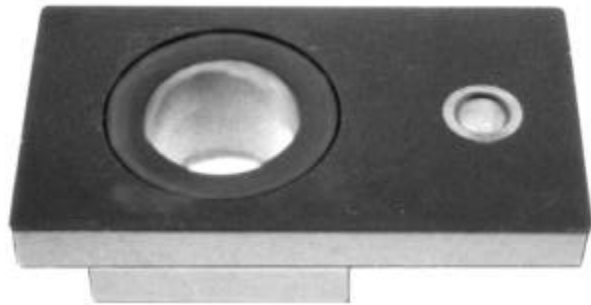
F-4 F-15 CONTOUR DRILL BAR



LOCKHEED-GELAC DRILL/REAM BAR



NORTHROP DRILL BAR



LOCK SCREW LOCATOR DRILL BAR



F-4 F-15 CONTOUR DRILL BAR



LOCKHEED-GELAC DRILL/REAM FIXTURE



F-15 F-18 SWIVEL FIXTURE



GELAC DRILL/REAM BAR

**Send Us Your Ideas, Specs,
Sketches, Photos or Prints.**

**Your Drill Bars
& Blocks By UNITED**



GELAC DRILL BLOCK



F-4 F-15 DRILL BAR



BOEING MCAIR DRILL BAR



LOCKHEED SIDE BLOCK



BOEING SEATTLE
HAND DRILL
ALIGNMENT
FIXTURE



BOEING COMMERCIAL DRILL BR



GELAC DRILL/REAM BAR

Versatile Drill Blocks

All-Purpose Drill Blocks

ALUMINUM ALL PURPOSE DRILL BLOCKS

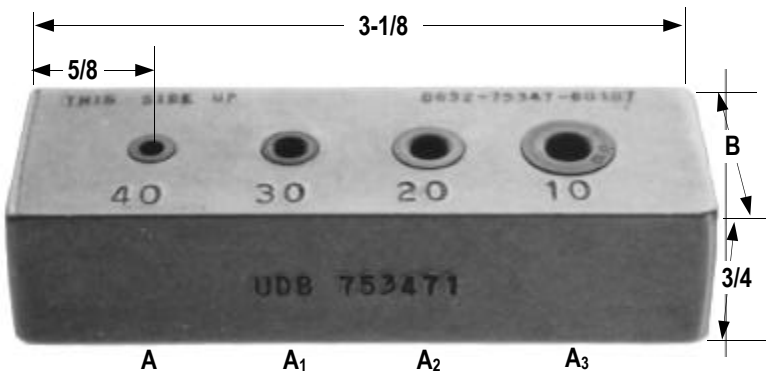


UDB-753473

Ask and **UNITED** will provide the sizes you require in these blocks!

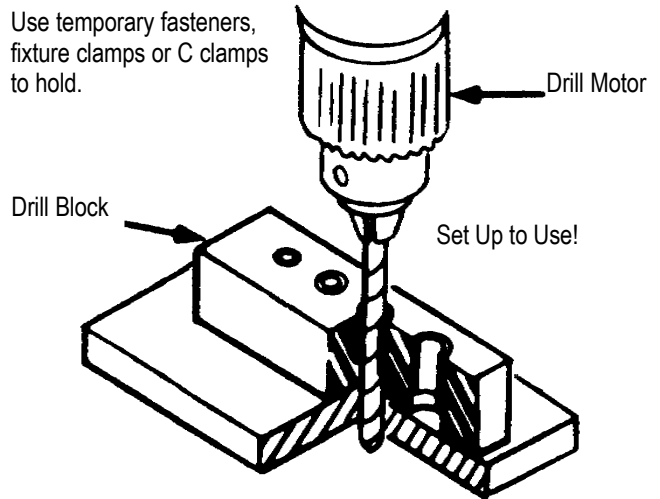


UDB-753472



UDB-753471

Use temporary fasteners, fixture clamps or C clamps to hold.



ALUMINUM BLOCKS

Aluminum Blocks are square to work piece.

Drill Bushings are all 1/2" long allowing chip relief between block and work piece.

Blocks are all 3/4" high and polished.

Face of blocks are all 1" wide except UDB-753474, which is 5/8" wide.

All bushings are located central and spaced 5/8."

Bushings are held to ANSI Tolerances up to 1/4" +.0001 +.0004 over 1/4 +.0001 +.0005 after pressing.

UNITED PART NO.	A	A ₁	A ₂	A ₃	B
UDB-753471	.0980 #40	.1285 #30	.1610 #20	.1935 #10	1
UDB-753472	.2501 1/4	.3125 5/16	.3750 3/8	.4375 7/16	1
UDB-753473	.1695 #18	.2280 #1	.2900 L	.3437 11/32	1
UDB-753474	.1285 #30	.1610 #20	.1935 #W	.2500 1/4	5/8
UDB-753475	.1285 #30	.1660 #19	.1935 #10	.2500 1/4	1