Metal Fabrication
A Guide to Stock and Custom Dies

Identification Plates, Inc.

UPIC: ID-LINE
SAGE: 51730
ASI: 62150
This brochure contains a listing of our available die templates and relative information concerning their use, as well as issues to be considered when creating or using dies. These tools are used to cut sheet metal into various sizes and shapes. It may be advantageous to design your product for use with one of our existing dies as it will speed production time and be more economical. Dies can be used to punch blank metal parts as well as imprinted metal parts. We routinely die cut parts that have been chemically etched, screen printed, sublimated, embossed, or rotary and laser engraved.

Stock Dies
This listing includes most of the standard dies that are available. Since we continue to add new sizes and shapes, we suggest you contact us for the latest update of our dies.

Custom Dies
We have a long history of creating dies to fit our customer’s specific needs. Do not hesitate to contact us if you need a size or shape that is not currently available.

Variety of Metals
Our dies are made for use with a wide variety of materials and thicknesses:

- Brass: .016” - .040”
- Aluminum: .020” - .125”
- Plated steel: .015” - .018”
- Stainless steel: .015” - .062”
- Copper: .020”
- Nickel Silver: .018”

Some dies will work with material that falls outside the parameters shown above. Please contact us if you have specific needs beyond what is listed.

All Products Proudly Made in the USA
There are a variety of issues that need to be considered when selecting or creating a die. Listed below are some of the key concerns that need to be addressed:

**Shape & Size Questions**

- Do you have a blueprint for your part?
- Will a stock die work for the material and thickness selected?
- Is the part going into a recessed area?
- Do you require round, notched, or inverted corners, or holes?
- Will the plate be mechanically mounted with bolts, rivets, or screws?
  If so, does the surface have pre-existing holes?
- Does your part have tolerance requirements?
- Is your part being applied to a curved or flat surface?

**Adhesive Selection**

ID Plates offers a variety of options to accommodate your adhesive needs. Consider the following when defining the optimal adhesive:

- Indicate the type of surface to which the item is being applied.
  Is it powder-coated (smooth or textured), painted or plated?
- What is the environment in which it will be used?
- What is the life expectancy?

ID Plates standard adhesives:

- **3M® 9502 (2 mil thick acrylic)** Long lasting, adheres well to metal, painted metal, polycarbonate and smooth plastic. Handles temperatures up to 350°F.
- **3M® 9505 (5 mil thick acrylic)** Long lasting, adheres well to smooth or textured metals, painted metals and plastic. Handles temperatures up to 350°F.

For 3M®467, 3M®468, 3M®467mp, 3M®468mp, tessa, foam, magnetic backing, and other adhesive options consult factory.

Contact ID Plates for adhesive MSDS and Specifications Sheets.
Available Die Templates

The dies pictured in this brochure are actual size. Fractional dimensions have been approximated.
Available Die Templates

Die # BO
3/4 x 1-1/2

Die # x7-24
1 x 3

Die # X6-80
1-5/64" x 3-1/2"

Die # VD
1" x 1"

Die # X4-61
11/16" x 1-3/4"

Die # BU-2
21/32" x 1-21/32"

Die # X7-3
1/2" x 2-1/2"

Die # DG
3/4" x 3" .040" or thicker
Die # UY
3/4" x 3" .032" or thinner

Die # AC-2
1-1/8" x 4-1/4"

Die # X4-51
1-1/4" x 2-5/8"

Die # VE
5/8" x 2-5/8"

Die # X4-139
1/2" x 2-1/2"

PN# 522
Die X4-41
1-3/4" x 1-3/4"

PN# 519/619
Die # UP
1-1/8" x 2-1/2"

Die # X4-75
1-1/8" x 2-5/8"

Die # BR
13/16" x 2-1/16"

Die # X4-28
11/16" x 1-9/16"
Available Die Templates

(Actual size)

Die # X6-58  1-3/4" X 3-1/4"
PN # 576    Die # RP   1-1/2" X 3"
Die # BJ-2  1-3/4" X 2-5/8"
Die # UV-2  2-1/8" X 2-7/16"
Die # UV-1  1-1/8" X 2-1/2"
Die # CC    1-3/8" X 2-1/4"
Die # X4-58 1-1/4" X 2-1/4"
PN# 665    Die # AM    1" X 1-17/32"
Die # Q     23/32" X 1-11/32"

Die # RF2   1-1/2" X 4"
Die # X4-93 1" X 3-9/16"
PN # 575    Die # RG    1" X 3"
PN# 571    Die # X7-2  15/16" x 2-15/16"
Die # CN-1  3/4" X 3"
Die # X4-71 3/4" X 2-13/16"
Die # X4-102 3/4" X 2-3/4"
Die # TL    3/4" X 2-3/4"
Die # X4-6   1" x 2-1/2"
Die # X4-63 7/8" X 2-1/2"

PN#574    Die # RI    7/8" X 2-3/4"
Die # X4-23 5/8" X 2-1/8"
PN#565    Die # WB    1/2" X 2-3/8"
Die # X4-29 3/8" X 2-1/4"
.040" or thicker
Available Die Templates

Die # ZU  2-1/2” x 3-1/2”

Die # X6-8  2-1/4” x 3-1/2”

PN# 534  Die X6-34  1-1/2” X 3-3/4”

Die # CU  2-1/8” X 3-3/8”
  credit card size

PN # 526  Die # K  2” X 3-1/2”
  business card size

Die # UX  2-1/8” X 3-3/8”

Die # X6-29  2-1/2” X 4”

Die # UO  2” X 3”

Die # AB-2  2” X 2-3/4”

PN# 578  Die # RA  2” X 3”

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Available Die Templates

(Actual size)

Die # UJ  1/2" x 7"

Die # AW-5  1/2" x 6"

Die # T12-2  1/2" X 5"

Die # DY-1  7/8" X 5-1/2"

Die # AW-3  3/4" X 5"

Die # X4-35 no holes

Die # X4-36 no holes

PN # 593  Die # X7-13  3/4" X 2-1/2"

PN # 462  Die # X5-22  5/8" X 3"

Die # DX-1  .83" X 3.145"

Die # UU-2  PN # 458  3/4" x 4-1/2"

Die # X4-32  5/8" X 3-3/4"

Die # UU  3/4" X 3-1/2"

PN # 456  Die # UI  3/4" X 3-1/2"

PN # 455  Die # FA  1/2" X 3"

PN # 461  Die # X5-1  .445" X 2.967"

PN # 467  Die # DB  1-1/4" X 2-1/2"

PN # 465  Die # TF  7/8" X 2-1/2"

Die # X4-35 no holes

Die # X4-36 no holes

Die # X4-55  5/8" x 1-5/8"

Die # RZ  1" X 2-1/2"

Die # X4-36 no holes
Available Die Templates

PN# 513
Die # CX
1-7/8"

PN# 516
Die # T12-4
5" x 5"

Die # BH-4
6" x 6"

Die # BH-5
7" x 7"

PN # 521/504
Die # X4-87
1-13/32" x 1-11/32"

PN # 512
Die # X-7/8"

Die # F-4
3-1/16" x 3-1/8"

Die # TQ-1
4" x 4"

PN # 532
Die # TP
2" x 2-1/16"
Available Die Templates

PN# 585  Die # X6-78  4" x 1-9/16"

PN# 587  Die # X5-32  3-1/4" x 1-7/8"

Die # X6-64  3-1/4" x 1-9/16"

Part # 588  Die # X4-118  4-3/4" x 2-1/16"

Die # X4-125  3-1/4" x 1"

PN# TOL  Die WJ-2  3-1/2" x 3-1/2"
Available Die Templates

Die # X7-10  3" x 1-1/4"

Die # X4-141  2-19/32" x 1-1/2"

Die # X4-91  1-1/2" x 1-7/16"

Die # TU  1-23/32" x 1-23/32"

Die # X4-70  2-5/32" x 1-25/32"

Die # X4-88  1-3/4" x 11/16"

Die # E-1  15/16" x 1-9/32"

Part # BJ-1  3-1/2" x 3-19/32"
Available Die Templates

Available Circles

PN# 544
Die # RE
2" dia.

PN# 544
Die # WY-2
15/16" dia.

PN# 558
Die # UQ
1" dia.

PN# 685
Die # X4-130
1-1/16" dia.

Die # A-1
1-1/8" dia.

Die # X4-50
1-3/16" dia.

Die # A-4
1-1/4" dia.

PN# 540
Die # X4-104
1-5/16" dia.

PN# 541
Die # J4
7/8" dia.

Die # X4-50
2-1/4" dia.

Die # X5-6
2-1/4" dia.

Die # CW-1
2-3/8" dia.

Die # UC
2-1/2" dia.

Die # X5-5
1-3/8" dia.

PN# 547
Die # UN
3" dia.

PN# 543
Die # UG
1-1/2" dia.

Die # X4-120
1-3/4" dia.

Die # CD
3-1/4" dia.

Die # X4-57
1-7/8" dia.

Die # CT
2-1/8" dia.

Die # X5-6
3-1/2" dia.

Die # CW-1
4" dia.

Die # X6-4
4" dia.

Die # X5-5
5" dia.

Die # UN
5-1/2" dia.

Die # CN-2
3-1/8" dia.

Die # X4-120
3-1/4" dia.

Die # TC-3
3-5/16" dia.

Die # X4-57
3-7/8" dia.

Die # CD
3-3/8" dia.

Die # X6-3
7-3/4" dia.

Die # TH
8-1/2" dia.

Die # X6-4
11" dia.

Die # X6-5
4-1/4" dia.

Die # UC
2-1/2" dia.

Die # DZ-2
4-1/2" dia.

Die # DP-5
5" dia.

Die # X6-5
5-3/8" dia.

Available Texas

PN# 622
Die # X6-12
2-3/4" x 2-7/8"

PN# 623
Die # TE
5-5/8" x 6"

PN# 626
Die # DH
10-5/8" x 11-3/8"

PN# 624
Die # DJ
7" x 7-1/2"

PN# 627
Die # TY
12-3/4" x 13-1/2"

Part # 624
Die # DJ
7" x 7-1/2"

PN# 625
Die # TX
9" x 9-5/8"
Hole Placement and Specification Guidelines

The following information will help ensure that holes are placed correctly. Whenever possible, providing a detailed drawing or blueprint will help ensure proper placement.

General Information

For standard shapes it is necessary to specify the general location of the hole(s), please see the diagrams below. Also include the size of the hole and any relation to grain direction.

- **Center to Center (C to C)**
  Used when matching to pre-existing holes

- **Edge to Edge (E to E)**
  The Edge of the plate to the Edge of the hole

- **Edge to Center (E to C)**
  The Edge of the plate to the Center of the hole
Fabrication Services

Holes/Slots
Countersunk holes
Corners (inverted, round or clipped)
Finished backsides (satin only)
Adhesive backing
Magnetic backing
Bending/Forming

Embossing/Debossing
Doming
Laser cutting
Beveled edges
Consecutive stamped serial numbers

- Available sizes: 1/16", 1/8", 5/32", 1/4"
  (maximum 9 digits)

Reference Guides

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<th>PUNCHES</th>
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90°  45°  30°  0°