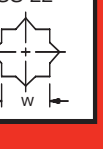
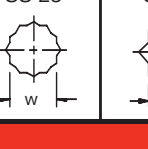
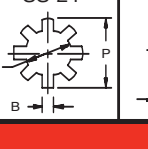
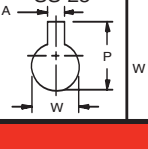
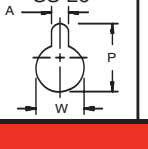
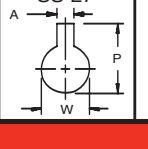
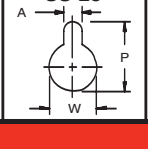
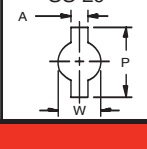
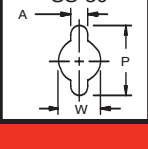
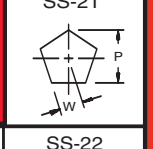
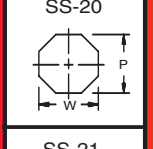
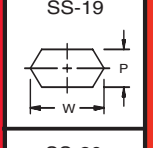
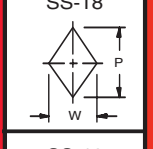
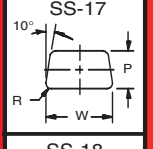
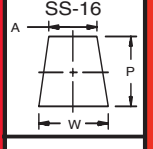
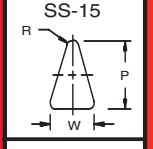
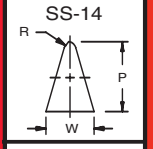
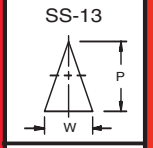
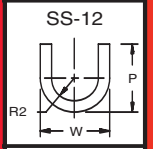
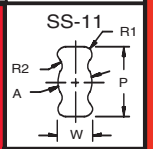


EXACTA

TURRET PRESS TOOLING

Weideman & Behrens Type

CAT #T064





Index

General Information	1	212 Series - Round Tooling	6
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114 Series - Shape Tooling	5	Forming Tool Examples	See Back Cover
(111, 113, 115, 116, 117		Shearproof Punches	See Back Cover
Tooling Limited Availability)		<i>Mate® is a Trademark of Mate Punch and Die Company.</i>	

Required Ordering Information

1. Type of **MACHINE & MODEL**.
2. Type of **TOOL** (eg. punch, die, stripper, etc.) and **PART NUMBER** if available.
3. **SHAPE** of Tool (round, rectangle, square, etc.) specials see front and back cover or supply drawing.
4. **DIMENSIONS** of **SHAPE** - looking at face of the die or component part.
5. **DIE CLEARANCE** required - or **TYPE** of **MATERIAL** and **THICKNESS** being punched.
6. **KEYING LOCATION** - if other than standard.
7. If **FORMING** - up or down.

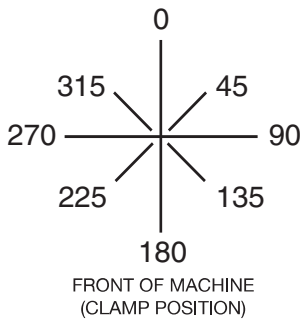
DIE CLEARANCE

Is the total space between punch and die. Die clearance is governed by the thickness and tensile strength of work piece material.

PUNCHES

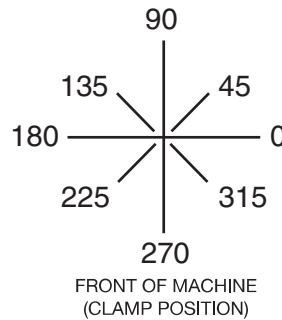
Can be supplied with or without shear.

WEIDEMAN



WHEN ORDERING TOOLING WITH KEYING OTHER THAN STANDARD, SPECIFY SHAPE LOCATION BY DEGREE USING THIS DIAGRAM

BEHRENS



WHEN ORDERING TOOLING WITH KEYING OTHER THAN STANDARD, SPECIFY SHAPE LOCATION BY DEGREE USING THIS DIAGRAM

To Order

ONTARIO

EXACTA PRECISION PRODUCTS LTD.

3115 Kennedy Road
Scarborough, Ontario, Canada
M1V 4Y1

Telephone: (416) 291-1942
Toll Free: 1-800-268-5573
Fax: (416) 291-8387
Toll Free Fax: 1-800-668-9314

QUEBEC & MARITIMES

PRODUITS DE PRÉCISION EXACTA LTÉE.

5965 Chemin St. François
Ville St. Laurent, Québec, H4S 1B6

Téléphone: (514) 333-0146
(Sans Frais) 1-800-361-6810
Québec, N.B. - P.E.I. & N.S. (Toll Free)
Télécopieur (514) 333-0147

Email: info@exactapunch.com • Website: www.exactapunch.com

General Information

Standard Shapes and Shape Codes

100 OBLONG	200 SQUARE	300 RECTANGLE	400 SINGLE D	500 FLATTED ROUND	650 HEXAGON	665 QUAD D	670 OCTAGON	680 EQUALATERAL	795 LONG D

SPECIFY INDEXING REQUIRED ON 400, 680 AND 795

Other Tooling Styles Available

OLD STYLE		NEW STYLE	
CURRENT NUMBER	FOR PRESSES	CURRENT NUMBER	FOR PRESSES
111	R41, RA41, R44, A15	112	25 SERIES R41, RA41, R44, A15
113	R5, R6, R61, RA61, A30	114	R61, RA61, A30, NC40
115	R7, R8, R101	116	R7, R8
117	R2, R4		
119	6B "EDA"		

Metric Behrens Tooling also available.

ADDITIONAL CHARGES APPLY FOR

- BELOW MINIMUM STANDARD SIZES
- EXTRA KEYWAYS OR FLATS
- KEYING OTHER THAN 90° OR 45°
- EXTRA DOWELS IN DIES
- KEYING DIES OTHER THAN 90° OR 45°
- NON STANDARD SHEAR

STYLE AND STATION

112B AND 114B
112C (ROUND PUNCH ONLY)
112D/G
114C
114D/L

SHEAR DEPTH (CONCAVE)

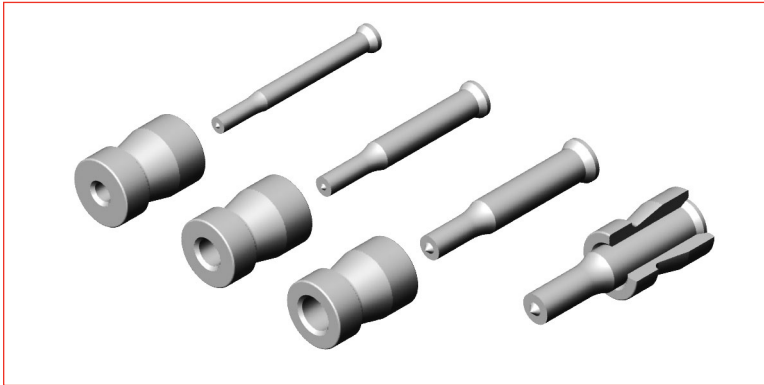
NONE REQUIRED
.04/.06"
.04/.06"
.04/.06"
.08/.10"

ADVISE WHEN PUNCHING 3/16 OR THICKER MATERIAL

- IONITRIDING AVAILABLE
- EXSET COATING (GOLD) AVAILABLE
- URETHANE SHEDDERS SUPPLIED WHERE APPLICABLE
- SPECIAL SHAPES - USE NUMBERS ON FRONT AND BACK COVERS



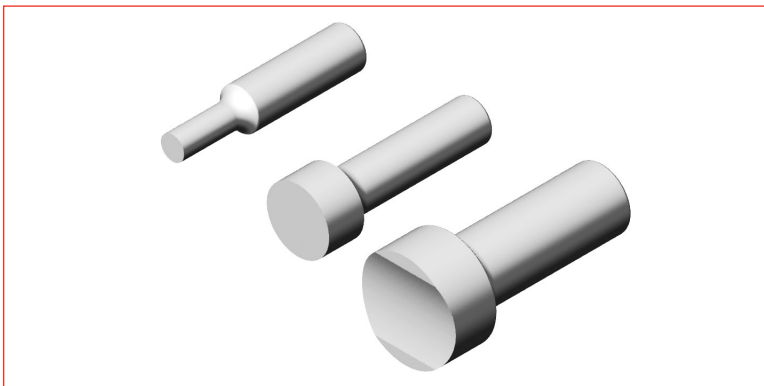
112 Series - Round Tooling



Station A - Round Punches and Sleeves

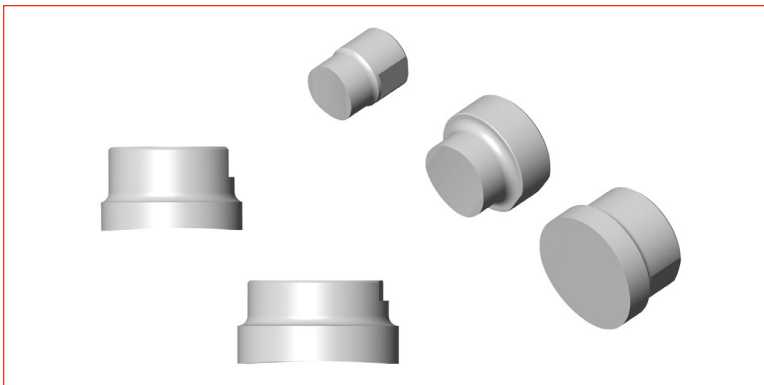
TOOL #	D	L	RANGE
TP18	3/16"	1-13/16"	.031" TO .156"
TP25	1/4"	1-13/16"	.157" TO .218"
TP31	5/16"	1-13/16"	.219" TO .281"
TP37	3/8"	1-13/16"	.282" TO .344"

SLEEVE #	I.D.	O.D.	L
TS18	3/16"	5/8"	.940"
TS25	1/4"	5/8"	.940"
TS31	5/16"	5/8"	.940"
TS37	3/8"	5/8"	.940"



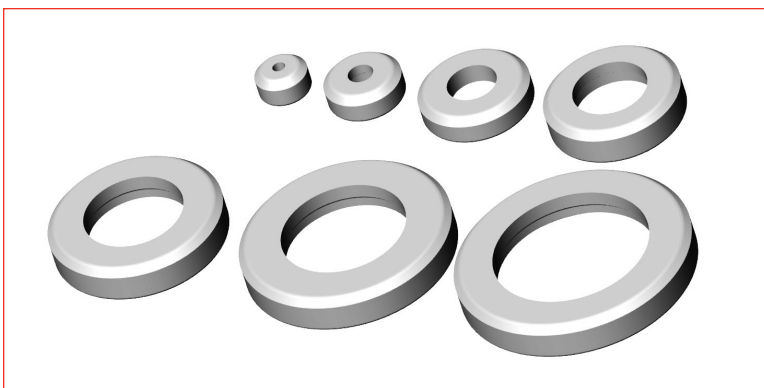
Station B & C - Round Punches

STN.	TOOL #	D	L	RANGE
B	TP62	5/8"	2-13/16"	.093" TO .625"
B	TP62-1	5/8"	2-13/16"	.626" TO 1.000"
C	TP93	15/16"	3-5/32"	1.001" TO 1.500"



Station D, E, F, G & H - Round Punches

STN.	TOOL #	D	L	RANGE
D	TP162	1-5/8"	2-1/16"	1.501" TO 2.000"
E	TP275	2-3/4"	2-1/16"	2.001" TO 2.750"
F	TP275-1	2-3/4"	2-1/16"	2.751" TO 3.125"
G	TP312	3-1/8"	2-1/16"	3.126" TO 3.500"
H	TP350-2	3-1/2"	2-1/16"	3.501" TO 4.000"

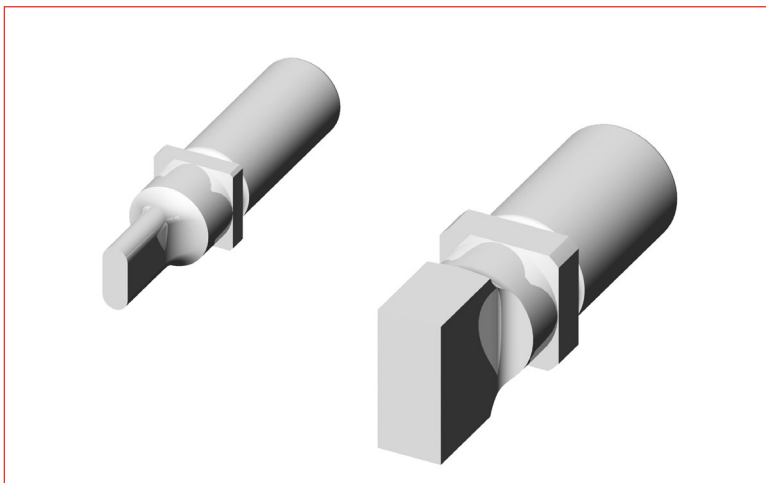


112 Series - Round Dies

STN.	TOOL #	OD	HT	RANGE
A	TD106-2	1-1/16"	.593	.035" TO .662"
B	TD156-2	1-9/16"	.593	.070" TO 1.037"
C	TD225-2	2-1/4"	.593	1.004" TO 1.537"
D	TD275-2	2-3/4"	.750	1.504" TO 2.037"
E	TD350-2	3-1/2"	.750	2.004" TO 2.537"
F	TD425-2	4-1/4"	.750	2.504" TO 3.162"
G	TD475-2	4-3/4"	.750	3.129" TO 3.537"
H	TD512-2	5-1/8"	.750	3.504" TO 4.037"

112 Series - Shape Tooling

MINIMUM WIDTH = .125
 MAXIMUM DIMENSION A.C. = LARGEST DIMENSION

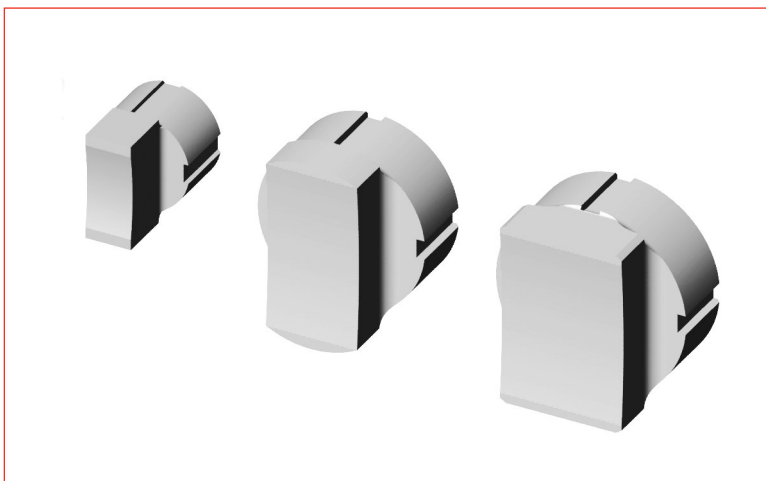


Station B & C - Shape Punches

Refer to page 1 for standard shape codes.

STN.	TOOL #	D	L	MAX. (AC)
B	TPZ62 ---	5/8"	2-13/16"	1.000
C	TPZ93 ---	15/16"	3-5/32"	1.500

SPECIFY SHAPE CODE IN PLACE OF ---

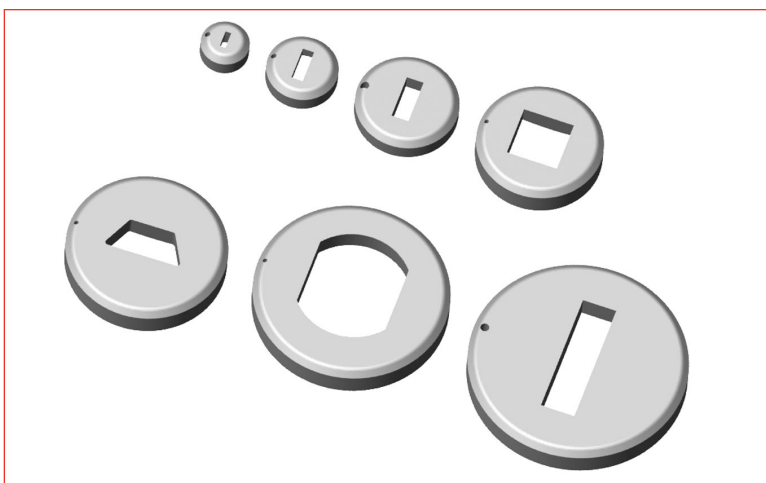


Station D, E, F, G & H - Shape Punches

Refer to page 1 for standard shape codes.

STN.	TOOL #	D	L	MAX. (AC)
D	TPZ162 ---	1-5/8"	2-1/16"	2.000
E	TPZ275 ---	2-3/4"	2-1/16"	2.750
F	TPZ275-1 ---	2-3/4"	2-1/16"	3.125
G	TPZ312 ---	3-1/8"	2-1/16"	3.500
H	TPZ350-2 ---	3-1/2"	2-1/16"	4.000

SPECIFY SHAPE CODE IN PLACE OF ---



112 Series - Shape Dies

Refer to page 1 for standard shape codes.

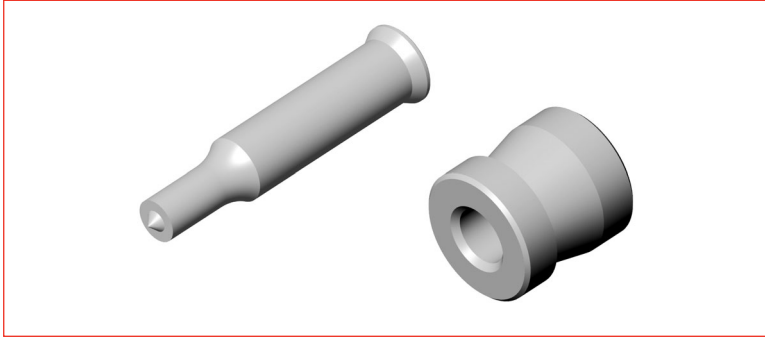
STN.	TOOL #	OD	HT	MAX. (AC)
A	TDZ106-2 ---	1-1/16"	.593	.662
B	TDZ156-2 ---	1-9/16"	.593	1.037
C	TDZ225-2 ---	2-1/4"	.593	1.537
D	TDZ275-2 ---	2-3/4"	.750	2.037
E	TDZ350-2 ---	3-1/2"	.750	2.537
F	TDZ425-2 ---	4-1/4"	.750	3.162
G	TDZ475-2 ---	4-3/4"	.750	3.537
H	TDZ512-2 ---	5-1/8"	.750	4.037

SPECIFY SHAPE CODE IN PLACE OF ---



114 Series - Round Tooling

Station A - Round Punches and Sleeves

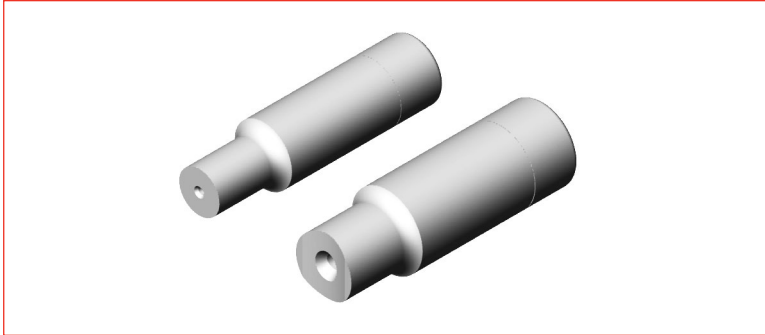


TOOL #	D	L	RANGE
TP56	9/16"	2-23/32"	.093" TO .500"

SLEEVE #	I.D.	O.D.	L
TS56	9/16"	1-1/16"	1.120"

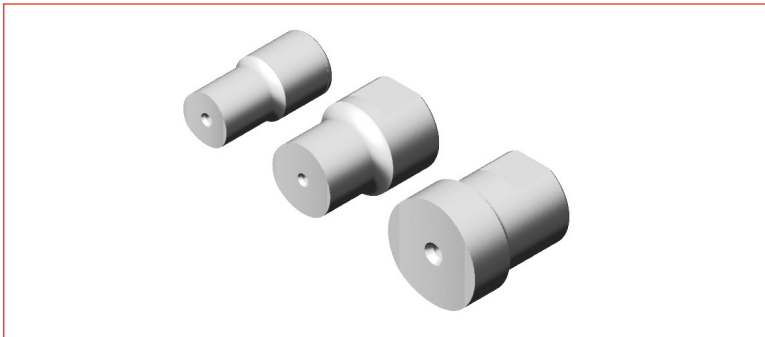
Station B & C - Round Punches

NOTE: Diameters above .500 standard with urethane shredders.



STN.	TOOL #	D	L	RANGE
B	TP106	1-1/16"	4"	.125" TO 1.000"
C	TP131	1-5/16"	4-1/16"	1.001" TO 1.500"

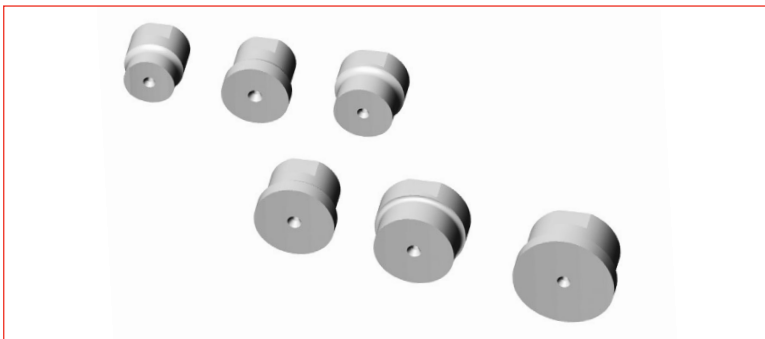
Station D, E & F - Round Punches



STN.	TOOL #	D	L	RANGE
D	TP175-4	1-3/4"	3-17/32"	1.501" TO 2.000"
E	TP250	2-1/2"	3-17/32"	2.001" TO 2.500"
F	TP250-1	2-1/2"	3-17/32"	2.501" TO 3.000"

Station G, H, J, K & L - Round Punches

NOTE: G and H Station Punch Holders are available for 3-1/2" and 4-1/8" body diameter punches. Customer must specify TP350 or TP412 Style.



STN.	TOOL #	D	L	RANGE
G	TP350	3-1/2"	3-17/32"	3.001" TO 3.500"
H	TP350-1	3-1/2"	3-17/32"	3.501" TO 4.125"
G	TP412	4-1/8"	3-17/32"	3.001" TO 3.500"
H	TP412-1	4-1/8"	3-17/32"	3.501" TO 4.125"
J	TP412-2	4-1/8"	3-17/32"	4.126" TO 4.750"
K	TP537	5-3/8"	3-17/32"	4.751" TO 5.500"
L	TP537-1	5-3/8"	3-17/32"	5.501" TO 6.000"

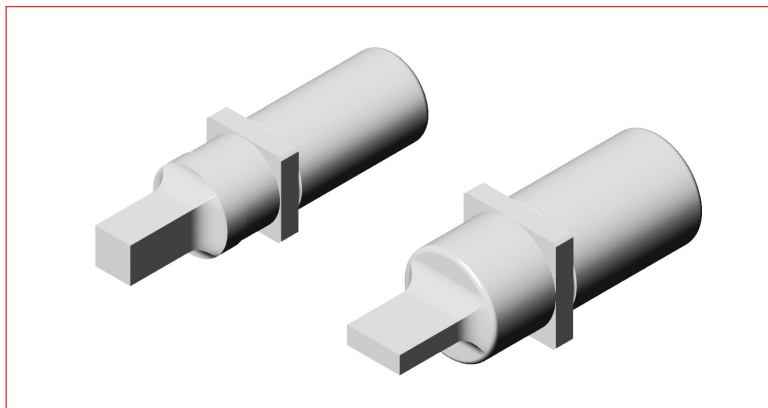
114 Series - Round Dies



STN.	TOOL #	OD	HT	RANGE
A&B	TD156-4	1-9/16"	1.125	.097" TO 1.040"
C	TD225-4	2-1/4"	1.125	1.004" TO 1.540"
D	TD275-4	2-3/4"	1.125	1.504" TO 2.040"
E	TD350-4	3-1/2"	1.125	2.004" TO 2.540"
F	TD400-4	4"	1.125	2.504" TO 3.040"
G	TD450-4	4-1/2"	1.125	3.004" TO 3.540"
H	TD525-4	5-1/4"	1.125	3.504" TO 4.165"
J	TD600-4	6"	1.125	4.129" TO 4.090"
K	TD700-4	7"	1.125	4.754" TO 5.540"
L	TD750-4	7-1/2"	1.125	5.504" TO 6.040"

114 Series - Shape Tooling

MINIMUM WIDTH = .125
 MAXIMUM DIMENSION A.C. = LARGEST DIMENSION

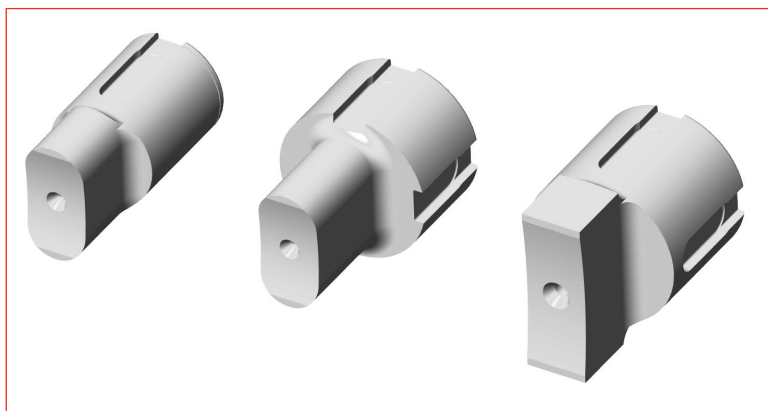


Station B & C - Shape Punches

Refer to page 1 for standard shape codes.

STN.	TOOL #	D	L	MAX. (A/C)
B	TPZ106	1-1/16"	4"	1.000
C	TPZ131	1-5/16"	4-1/16"	1.500

SPECIFY SHAPE CODE IN PLACE OF ---

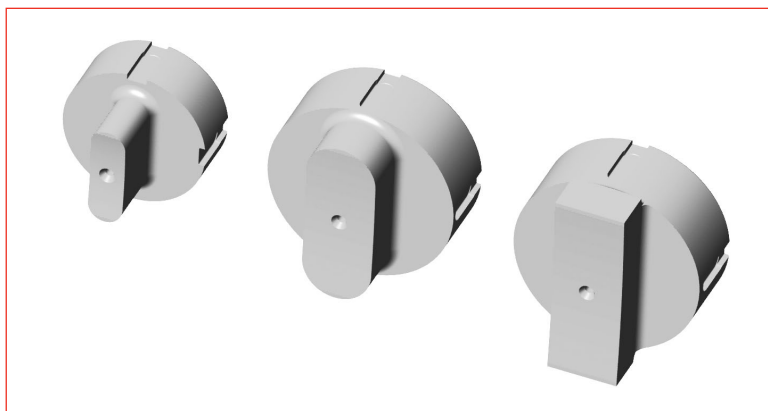


Station D, E & F - Shape Punches

Refer to page 1 for standard shape codes.

STN.	TOOL #	D	L	MAX. (A/C)
D	TPZ175-4	1-3/4"	3-17/32"	2.000
E	TPZ250	2-1/2"	3-17/32"	2.500
F	TPZ250-1	2-1/2"	3-17/32"	3.000

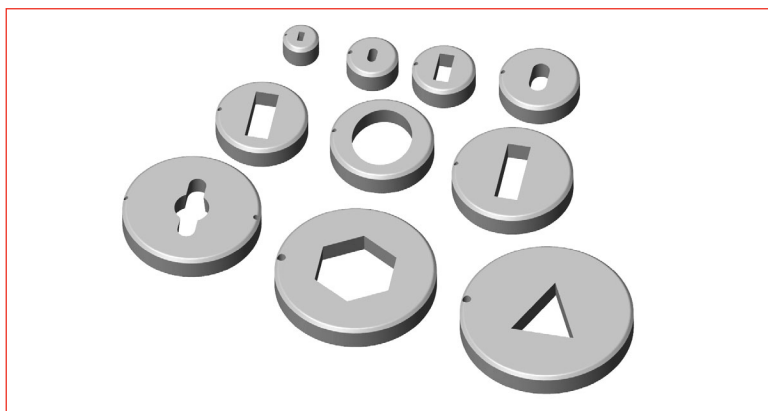
SPECIFY SHAPE CODE IN PLACE OF ---



Station G, H, J, K & L - Shape Punches

NOTE: G and H Station Punch Holders are available for 3-1/2" and 4-1/8" body diameter punches. Customer must specify TPZ350 or TPZ412 Style.

STN.	TOOL #	D	L	MAX. (A/C)
G	TPZ350	3-1/2"	3-17/32"	3.500
H	TPZ350-1	3-1/2"	3-17/32"	4.125
G	TPZ412	4-1/8"	3-17/32"	3.500
H	TPZ412-1	4-1/8"	3-17/32"	4.125
J	TPZ412-2	4-1/8"	3-17/32"	4.750
K	TPZ537	5-3/8"	3-17/32"	5.500
L	TPZ537-1	5-3/8"	3-17/32"	6.000



114 Series - Shape Dies

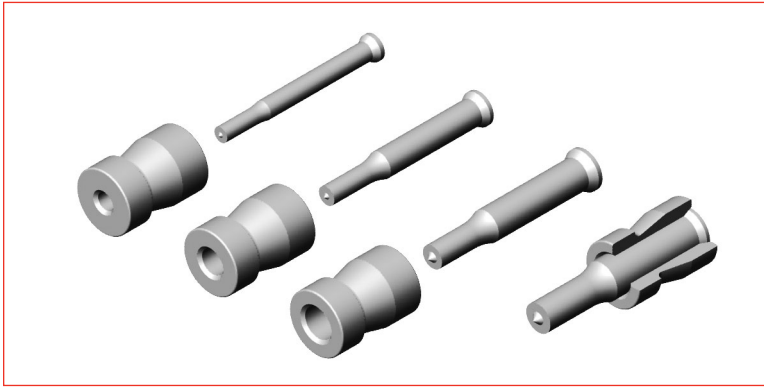
Refer to page 1 for standard shape codes.

STN.	TOOL #	OD	HT	MAX. (A/C)
A&B	TDZ156-4	1-9/16"	1.125	1.040
C	TDZ225-4	2-1/4"	1.125	1.540
D	TDZ275-4	2-3/4"	1.125	2.040
E	TDZ350-4	3-1/2"	1.125	2.540
F	TDZ400-4	4"	1.125	3.040
G	TDZ450-4	4-1/2"	1.125	3.540
H	TDZ525-4	5-1/4"	1.125	4.165
J	TDZ600-4	6"	1.125	4.790
K	TDZ700-4	7"	1.125	5.540
L	TDZ750-4	7-1/2"	1.125	6.040

SPECIFY SHAPE CODE IN PLACE OF ---



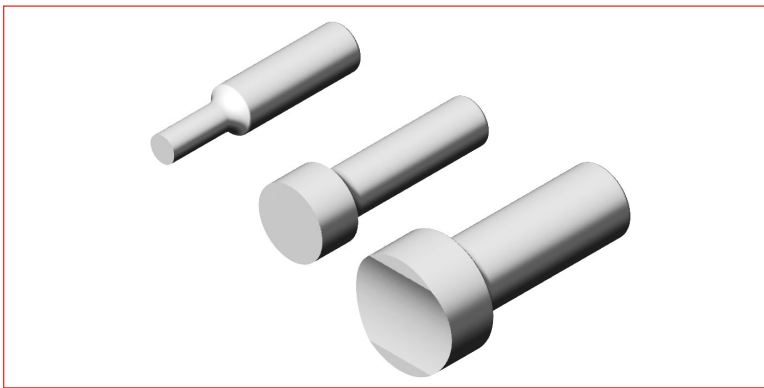
212 Series - Round Tooling



Station A

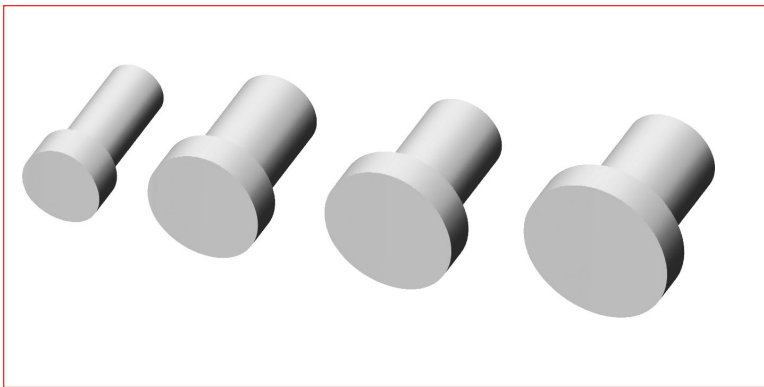
TOOL #	D	L	RANGE
TP18	3/16"	1-13/16"	.031" TO .156"
TP25	1/4"	1-13/16"	.157" TO .218"
TP31	5/16"	1-13/16"	.219" TO .281"
TP37	3/8"	1-13/16"	.282" TO .344"

SLEEVE #	I.D.	O.D.	L
TS18	3/16"	5/8"	.940"
TS25	1/4"	5/8"	.940"
TS31	5/16"	5/8"	.940"
TS37	3/8"	5/8"	.940"



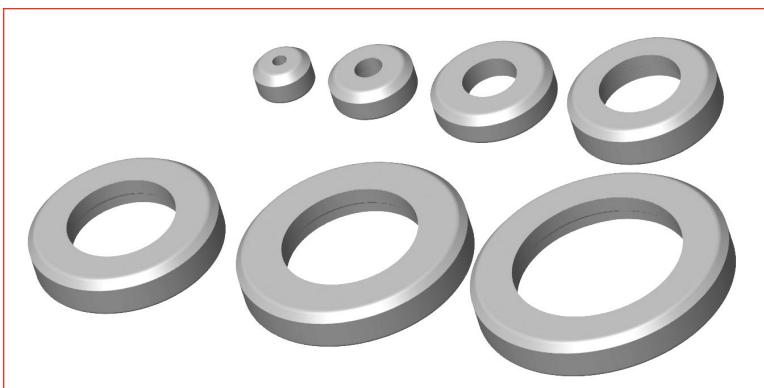
Station B & C - Round Punches

STN	TOOL #	D	L	RANGE
B	TP62	5/8"	2-13/16"	.093" TO .625"
B	TP62-1	5/8"	2-13/16"	.626" TO 1.000"
C	TP93	15/16"	3-5/32"	1.001" TO 1.500"



Station D, E, F & G - Round Punches

STN.	TOOL #	D	L	RANGE
D	TP125	1-1/4"	3-19/32"	1.501" TO 2.000"
E	TP175	1-3/4"	3-19/32"	2.001" TO 2.750"
F	TP175-1	1-3/4"	3-19/32"	2.751" TO 3.125"
G	TP200	2"	3-19/32"	3.126" TO 3.500"

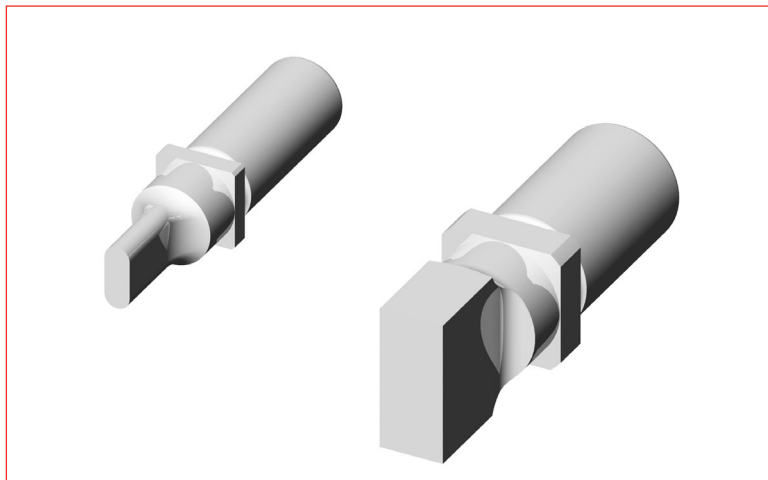


212 Series - Round Dies

STN.	TOOL #	OD	HT	RANGE
A	TD106-2	1-1/16"	.593	.035" TO .662"
B	TD156-2	1-9/16"	.593	.097" TO 1.037"
C	TD225-2	2-1/4"	.593	1.004" TO 1.537"
D	TD275-2	2-3/4"	.750	1.504" TO 2.037"
E	TD350-2	3-1/2"	.750	2.004" TO 2.537"
F	TD425-2	4-1/4"	.750	2.504" TO 3.162"
G	TD475-2	4-3/4"	.750	3.129" TO 3.537"

212 Series - Shape Tooling

MINIMUM WIDTH = .125
 MAXIMUM DIMENSION A.C. = LARGEST DIMENSION

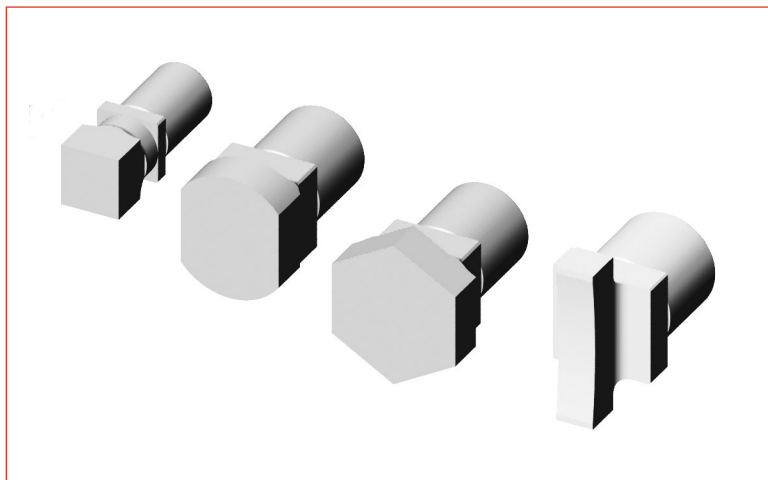


Station B & C - Shape Punches

Refer to page 1 for standard shape codes.

STN.	TOOL #	D	L	MAX. (A/C)
B	TPZ62 _ _ _	5/8"	2-13/16"	1.000
C	TPZ93 _ _ _	15/16"	3-5/32"	1.500

SPECIFY SHAPE CODE IN PLACE OF _ _ _

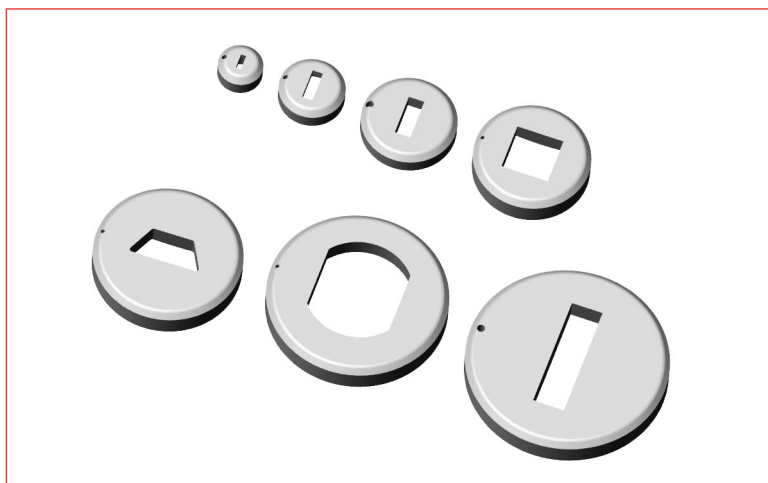


Station D, E, F & G - Shape Punches

Refer to page 1 for standard shape codes.

STN.	TOOL #	D	L	MAX. (A/C)
D	TPZ125 _ _ _	1-1/4"	3-19/32"	2.000
E	TPZ175 _ _ _	1-3/4"	3-19/32"	2.750
F	TPZ175-1 _ _ _	1-3/4"	3-19/32"	3.125
G	TPZ200 _ _ _	2"	3-19/32"	3.500

SPECIFY SHAPE CODE IN PLACE OF _ _ _



212 Series - Shape Dies

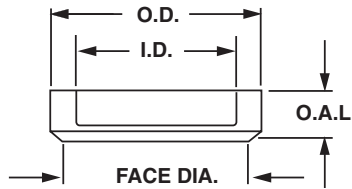
Refer to page 1 for standard shape codes.

STN.	TOOL #	OD	HT	MAX. (A/C)
A	TDZ106-2 _ _ _	1-1/16"	.593	.662
B	TDZ156-2 _ _ _	1-9/16"	.593	1.037
C	TDZ225-2 _ _ _	2-1/4"	.593	1.537
D	TDZ275-2 _ _ _	2-3/4"	.750	2.037
E	TDZ350-2 _ _ _	3-1/2"	.750	2.537
F	TDZ425-2 _ _ _	4-1/4"	.750	3.162
G	TDZ475-2 _ _ _	4-3/4"	.750	3.537

SPECIFY SHAPE CODE IN PLACE OF _ _ _



Urethane Strippers for Wiedeman W-20, W-30, W-45 Quantum 2000 & Centrum 1000



For 112 Style Tooling

	SHAPE	PART NO.	O.A.L.	I.D.	O.D.	FACE DIA.
B	STD.	PW2B	1-27/32	31/32	2	1-5/32
C	STD.	PW2C	2-1/16	1-15/32	2-1/2	1-23/32
D	STD.	PW2D	1-1/2	1-31/32	3	2-7/32
	1" SQ. *	PW2SQD	1-1/2	1-31/32	3	2-7/32
	RECT. **	PW2RD	1-1/2	1-31/32	3	2-7/32
E	STD.	PW2E	1-1/2	3-3/32	4-9/32	2-29/32
	RECT. **	PW2RE	1-1/2	3-3/32	4-9/32	2-29/32
F	STD.	PW2F	1-1/2	3-3/32	4-9/32	3-11/16
	SQ. *	PW2SQF	1-1/2	3-3/32	4-9/32	3-11/16
	RECT. **	PW2RF	1-1/2	3-3/32	4-9/32	3-11/16
G	STD.	PW2G	1-1/2	3-15/32	4-25/32	4-3/16
	2" SQ. * RECT. **	PW2RG	1-1/2	3-15/32	4-25/32	4-3/16
H	STD.					
	RECT. **					
J	STD.					
	RECT. **					
K	STD.					
	RECT. **					

For 114 Style Tooling

PART NO.	O.A.L.	I.D.	O.D.	FACE DIA.
PW4B (1)	2-1/4	1-1/16	1-31/32	1-1/8
PW4C (1)	2-5/16	1-3/4	2-1/2	1-23/32
PW4D	2-3/32	1-31/32	3	2-7/32
PW4SQD	2-3/32	1-31/32	3	2-7/32
PW4RD	2-3/32	1-31/32	3	2-7/32
PW4E	2-3/32	2-31/32	4	2-29/32
PW4RE	2-3/32	2-31/32	4	2-29/32
PW4F	2-3/32	2-31/32	4	3-9/32
PW4SQF	2-3/32	2-31/32	4	3-9/32
PW4RF	2-3/32	2-31/32	4	3-9/32
PW4G	2-3/32	4-11/32	5-5/32	3-25/32
PW4SQG	2-3/32	4-11/32	5-5/32	3-25/32
PW4RG	2-3/32	4-11/32	5-5/32	3-25/32
PW4H	2-3/32	4-11/32	5-5/32	4-17/32
PW4RH	2-3/32	4-11/32	5-5/32	4-17/32
PW4J	2-3/32	4-23/32	5-13/16	5-11/32
PW4RJ	2-3/32	4-23/32	5-13/16	5-11/32
PW4K	2-3/32	5-23/32	6-5/8	6-3/8
PW4RK	2-3/32	5-23/32	6-5/8	6-3/8

* 1" & 2" SQUARES ONLY (1) C/W EARS
** 1/2" & NARROWER RECTANGLES ONLY

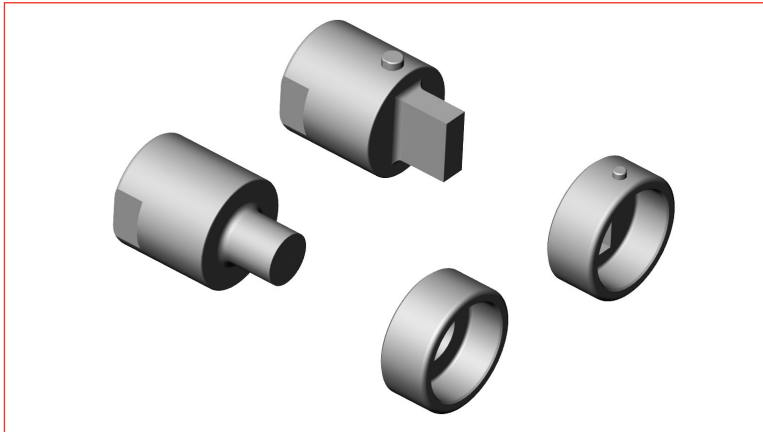
Wiedeman and Behrens

Punch and Die Shims / 112, 212 & 114 Style Tools

STYLE	112	112 / 212	212	114	114	114
STATION	PUNCH	DIE	PUNCH	PUNCH	DIE	SHEARPROOF PUNCH
A	24-PS2B	12-DS2A	24-PS2B	24-PS4B	12-DS6B	
B	24-PS2B	12-DS6B	24-PS2B	24-PS4B	12-DS6B	
C	24-PS2C	12-DS6C	24-PS2C	24-PS4C	12-DS6C	
D	12-PS2D	12-DS6D	12-PS3D	12-PS4D	12-DS6D	
E	12-PS2F	12-DS6E	12-PS3F	12-PS4F	12-DS6E	
F	12-PS2F	12-DS2F	12-PS3F	12-PS4F	12-DS4F	6-PS4FNS
G	12-PS2G	6-DS2G	12-PS3G	12-PS4J	6-DS4G	6-PS4GNS
H		6-DS2H		12-PS4J	6-DS4H	
J				12-PS4J	6-DS4J	6-PS4JNS
K				6-PS4L	6-DS4K	
L				6-PS4L	6-DS4L	

SHIMS ARE NOT SOLD IN QUANTITIES LESS THAN A BAG
PUNCH SHIMS ARE 1/16" THICK
DIE SHIMS ARE 1/32" THICK

Multi Station Punches and Dies



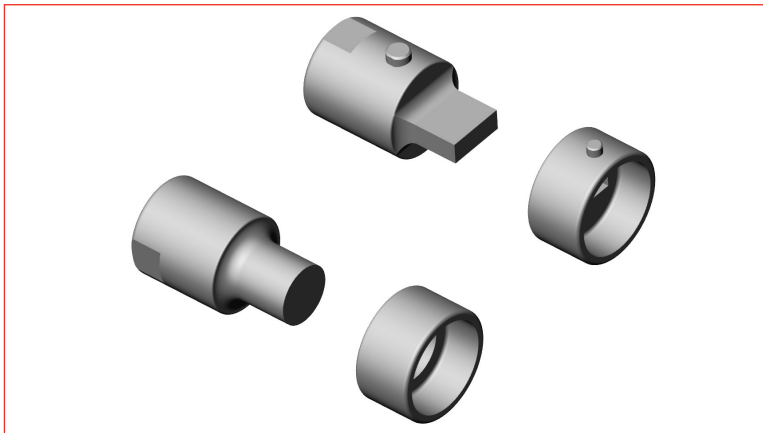
**6 Station - 1.063 - 27.0 mm Punch Body
1.563 - 39.8 mm Punch Length**

Refer to page 1 for standard shape codes

RANGE .020 - 1.000

DESCRIPTION		Mate Ref. #	PART NO.
PUNCH	ROUND	POVW0A	VTP106
	SHAPE	POVW _ A	VTPZ106 _ _ _
DIE	ROUND	DOVW00	VTD118
	SHAPE	DOV _ _	VTDZ118 _ _ _

SPECIFY SHAPE CODE IN PLACE OF _ _ _



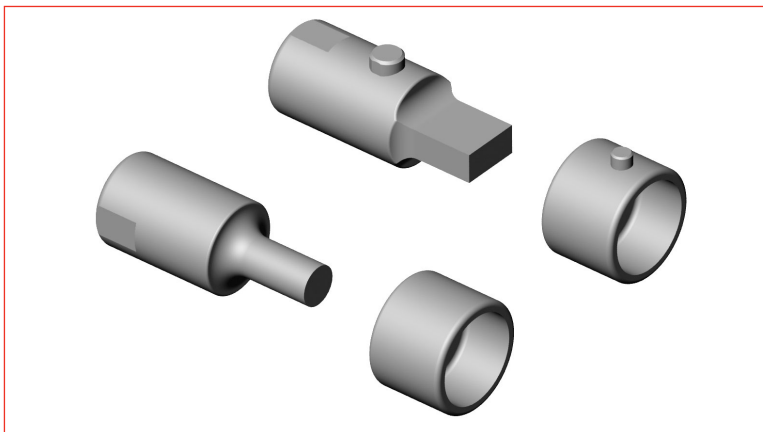
**8 Station - .812 - 20.6 mm Punch Body
1.375 - 34.9 mm Punch Length**

Refer to page 1 for standard shape codes

RANGE .020 - .750

DESCRIPTION		Mate Ref. #	PART NO.
PUNCH	ROUND	POVW0A	VTP81
	SHAPE	POVW _ A	VTPZ81 _ _ _
DIE	ROUND	DOVW00	VTD93
	SHAPE	DOW _ 0	VTDZ93 _ _ _

SPECIFY SHAPE CODE IN PLACE OF _ _ _



**12 Station - .562 - 13.2 mm Punch Body
1.375 - 34.9 mm Punch Length**

Refer to page 1 for standard shape codes

RANGE .020 - .500

DESCRIPTION		Mate Ref. #	PART NO.
PUNCH	ROUND	POVT0A	VTP56
	SHAPE	POVT _ A	VTPZ56 _ _ _
DIE	ROUND	DOVT00	VTD68
	SHAPE	DOVT _ 0	VTDZ68 _ _ _

SPECIFY SHAPE CODE IN PLACE OF _ _ _

Note: Multi Station punches and dies are keyed one way only. Please Specify X (Tangent) or Y axis (Radial).

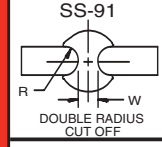
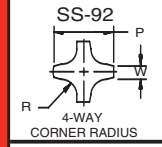
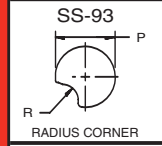
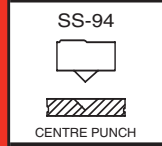
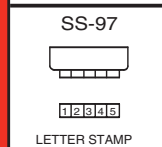
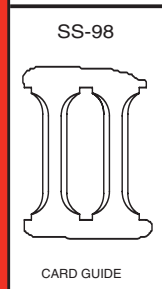
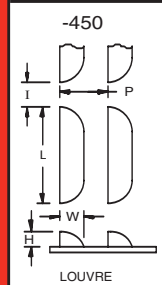
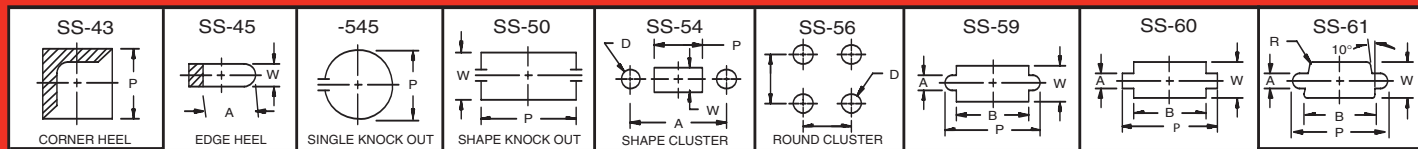
X AXIS



Y AXIS



Mate® is a Trademark of Mate Punch and Die Company.

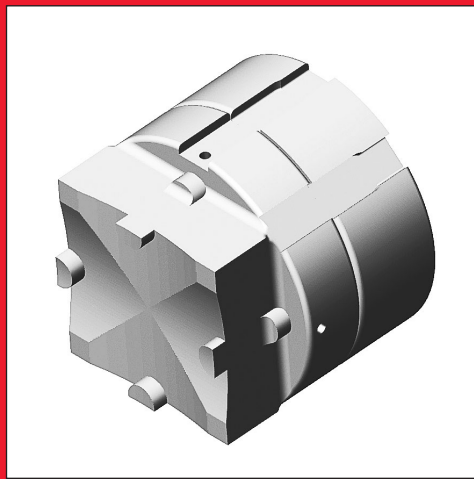
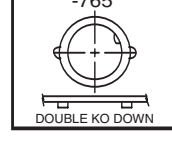
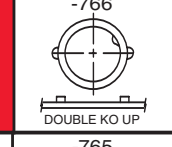
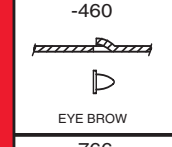
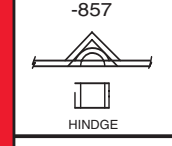
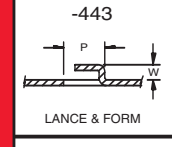
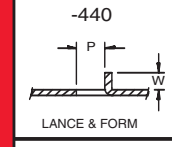
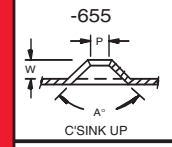
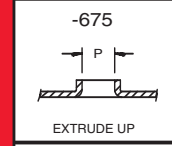
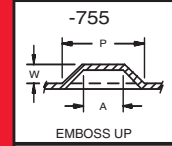
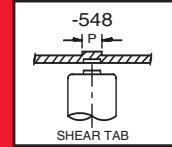
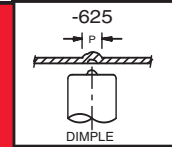


Forming Tools

EXAMPLES AND SHAPE CODES

BRIDGE LANCE -855	* COUNTERSINK -654	DIMPLE -625	* EXTRUSION -675	EYEBROW -460
LANCE AND FORM (ONE BEND) -440	LANCE AND FORM (THREE BENDS) -445	RIB -370	EMBOSS -755	* THREAD FORM -380
SHEAR TAB -548	CHARACTER STAMP -725	* EMBOSS UP EXTRUDE DOWN -775	CLOSED END LOUVRE -450	OPEN END LOUVRE (LANCE) -455

*MUST HAVE PRE PIERCED HOLE



ShearProof Punches

For Punching or Notching up to 3/16 Material. ShearProof Punches have Spring Loaded Heels (Guides which extend below the Punch Cutting Edge). Each Heel can retract independently to make it's cutting edge coincide with the Punch Cutting Edge. When Nibbling or Notching, the Heels which do not contact material, extend into the Die to serve as Guides to stop side thrust. When Punching a hole in the centre of the sheet all Heels retract making all Cutting Edges continuous. Available in 112 and 114 Styles as full bodied Punches or as Punch Body Retainer with replaceable Punch Face and Heels.

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