

TOOLING DESIGNATIONS

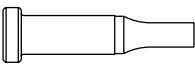
INCH



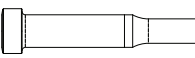
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SOLID PUNCHES

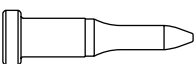
ISPV - Impax Solid Punch Variable Series
ISPB - Impax Solid Punch Basic Series
Blank Punch, Round Punch (shown), Shaped Punch



ISPX - Impax Solid Extreme Punch Series
Blank Punch, Round Punch (shown), Shaped Punch



ISPV - Impax Pilot Punch Variable Series
ISPB - Impax Pilot Punch Basic Series
Pilot Punch, P1 Parabolic Pilot, P2 Angular Pilot (shown), P3 Pilot

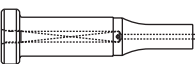


ISSV - Impax Straight Punch Variable Series
ISSB - Impax Straight Punch Basic Series
Straight Punch (shown), P1 Parabolic Pilot, P2 Angular Pilot, P3 Pilot



EJECTOR PUNCHES

IEPV - Impax Ejector Punch Variable Series
IEPB - Impax Ejector Punch Basic Series
Ejector Blank Punch, Ejector Round Punch (shown), Ejector Shaped Punch



IEPX - Impax Ejector Extreme Punch
Ejector Blank Punch, Ejector Round Punch (shown), Ejector Shaped Punch

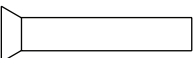


IESV - Impax Ejector Straight Punch Variable Series
Ejector Straight Punch

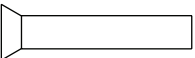


CLOSESPACE PUNCHES

IQBB - Impax Quill Blank Bevel Head
Bevel Head Blank



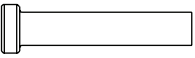
IQSB - Impax Quill Straight Bevel Head
Bevel Head Straight



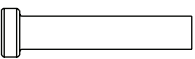
IQPB - Impax Quill Punch Bevel Head
Bevel Head Round



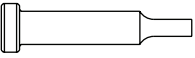
IQBS - Impax Quill Blank Square Head
Square Head Blank



IQSS - Impax Quill Straight Square Head
Square Head Straight

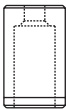


IQPS - Impax Quill Punch Square Head
Square Head Round



COUNTERBORE DIES

IDDC - Impax Headless Die Counterbore Relief
Headless Counterbore Die Blank
Headless Counterbore Die Round
Headless Counterbore Die Shape

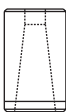


IHDC - Impax Headed Die Counterbore Relief
Headed Counterbore Die Blank
Headed Counterbore Die Round
Headed Counterbore Die Shape



TAPER RELIEF DIES

IDDT - Impax Headless Die Taper Relief
Headless Taper Die Blank
Headless Taper Die Round
Headless Taper Die Shape

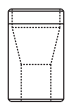


IHDT - Impax Headed Die Taper Relief
Headed Taper Die Blank
Headed Taper Die Round
Headed Taper Die Shape



GUIDES

IHLG - Impax Headless Guide
Headless Guide Round
Headless Guide Shape



IHUG - Impax Head-up Guide
Head-up Guide Round
Head-up Guide Shape



IHDG - Impax Head-Down Guide
Head-down Guide Round
Head-down Guide Shape



CLOSESPACE GUIDES

ICSG - Impax Closespace Guide
Headless Quill Guide



STANDARD SHAPES

ROUND
RD



OBROUND
OB



SQUARE
SQ



RECTANGLE
RT



HEXAGON
HX



OCTAGON
OT



SINGLE-D
SD



DOUBLE-D
DD



LONG-D
LD



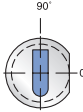
QUAD-D
QD



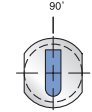
KEYING

*Die View Shown

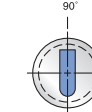
KEY-1
Single Flat



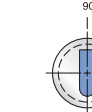
KEY-2
Double Flat



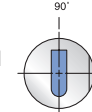
KEY-3
Dowel .125



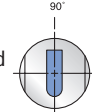
KEY-4
Dowel .1875



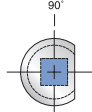
KEY-5
Single Flat Working End
*Dies Only



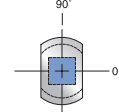
KEY-6
Double Flat Working End
*Dies Only



KEY-9
Single Full Body



KEY-10
Double Full Body



EXAMPLES:

Shank Code Point Length Point Diameter
ISPV037 - 300 3 RD P=.250 Optima

Letter Code Overall Length Shape Optima Coated Punch

Impax solid punch variable series, .375" shank diameter, 3" overall length, .750" point length

Point length: 1 = .250", 2 = .500", 3 = .750", 4" = 1.00", 5 = 1.25", 6 = 1.50"

Shank Code Shape Point Dimension
IDDC050 - 150 OB P=.250 W=.125 Key 9 M=.190 Y=0°

Letter Code Overall Length Point Dimension

Impax headless die counterbore relief, .500" body diameter, 1.5" overall length

12912 Farnham Avenue
White Bear Lake, MN 55110

Toll Free: 800.944.4671
Toll Free Fax: 800.944.4679
E-mail: impax@wilsontool.com



TOOLING DESIGNATIONS

METRIC

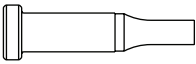
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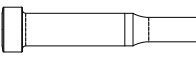
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SOLID PUNCHES

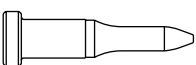
MSPB - Impax Metric Solid Punch
Blank Punch, Round Punch (shown), Shaped Punch



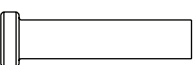
MSPX - Impax Metric Solid Extreme Punch
Blank Punch, Round Punch (shown), Shaped Punch



MSPB - Impax Metric Pilot Punch
P1 Parabolic Pilot, P2 Angular Pilot (shown), P3 Pilot

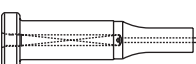


MSSB - Impax Metric Straight Punch
Straight Punch

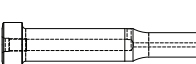


EJECTOR PUNCHES

MEPB - Impax Metric Ejector Punch
Ejector Blank Punch, Ejector Round Punch (shown), Ejector Shaped Punch



MEPX - Impax Metric Ejector Extreme Punch
Ejector Blank Punch, Ejector Round Punch (shown), Ejector Shaped Punch

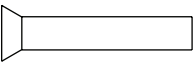


MESB - Impax Metric Ejector Straight Punch
Ejector Straight Punch

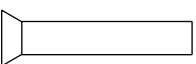


CLOSESPACE PUNCHES

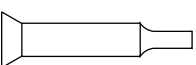
MQBB - Impax Metric Quill Blank Bevel Head
Bevel Head Blank



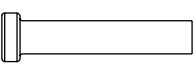
MQSB - Impax Metric Quill Straight Bevel Head
Bevel Head Straight



MQPB - Impax Metric Quill Punch Bevel Head
Bevel Head Round



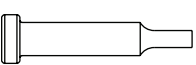
MQBS - Impax Metric Quill Blank Square Head
Square Head Blank



MQSS - Impax Metric Quill Straight Square Head
Square Head Straight

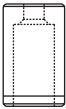


MQPS - Impax Metric Quill Punch Square Head
Square Head Round



COUNTERBORE DIES

MDDC - Impax Metric Headless Die Counterbore Relief
Headless Counterbore Die Blank
Headless Counterbore Die Round
Headless Counterbore Die Shape

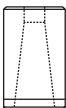


MHDC - Impax Metric Headed Die Counterbore Relief
Headless Counterbore Die Blank
Headed Counterbore Die Round
Headed Counterbore Die Shape



TAPER RELIEF DIES

MDDT - Impax Metric Headless Die Taper Relief
Headless Taper Die Blank
Headless Taper Die Round
Headless Taper Die Shape



MHDT - Impax Metric Headed Die Taper Relief
Headed Taper Die Blank
Headed Taper Die Round
Headed Taper Die Shape



GUIDES

MHLG - Impax Metric Headless Guide
Headless Guide Round
Headless Guide Shape



MHUG - Impax Metric Head-up Guide
Head-up Guide Round
Head-up Guide Shape



MHDG - Impax Metric Head-Down Guide
Head-down Guide Round
Head-down Guide Shape



CLOSESPACE GUIDES

MCSG - Impax Metric Closespace Quill Guide
Headless Quill Guide



STANDARD SHAPES

ROUND
RD



OBROUND
OB



SQUARE
SQ



RECTANGLE
RT



HEXAGON
HX



OCTAGON
OT



SINGLE-D
SD



DOUBLE-D
DD



LONG-D
LD



QUAD-D
QD

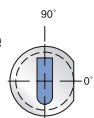


KEYING

*Die View Shown

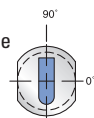
KEY-1

Single Flat



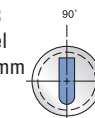
KEY-2

Double Flat



KEY-3

Dowel Pin 3mm



KEY-4

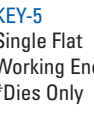
Dowel Pin 4mm



KEY-5

Single Flat Working End

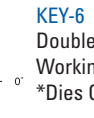
*Dies Only



KEY-6

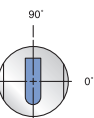
Double Flat Working End

*Dies Only



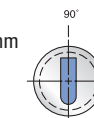
KEY-7

Pin 6mm



KEY-9

Single Full Body



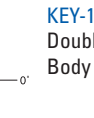
KEY-10

Double Full Body



KEY-10

Double Full Body



EXAMPLES:

Shank Code SBR Point Diameter
MSPB 13 - 70 13 RD P=6.350 Optima
Letter Code Overall Length Shape Optima Coated Punch

Impax solid punch variable series, 13mm shank diameter, 70mm overall length, 13mm SBR

Point length: 13mm, 19mm, 25mm, 32mm

Shank Code Shape Point Dimension
MDDT 25 - 30 OB P=6.350 W=3.175 Key 9 M=11.0 Y=0°
Letter Code Overall Length Point Dimension

Impax headless die taper relief, 25mm body diameter, 30mm overall length

