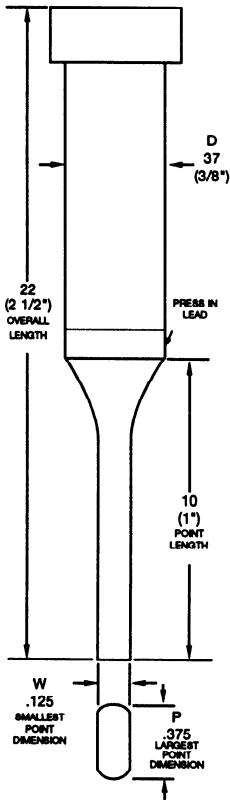




PIVOT PUNCH CORPORATION / SELECTIVE SERIES

All heads of shoulder type punches are HOT FORGED to minimize breakage. Grain flow lines are uninterrupted and conform to the contour of the head, assuring maximum structural strength.



Note: Use of W and P to show largest and smallest point dimension is common to all items shown in this catalog.

IMPORTANT: When ordering Pilot Nose Punches specify length as same dimension as piercing punch. Pilot Nose punches are furnished with 1/4" pilot nose in addition to specified length.

TONDRA®

This exclusive surface treatment, available on all HSS punches and die buttons, imparts a glass hard surface (Rockwell 72-75) and offers the ultimate in resistance to abrasion, firing and galling. Performed after finished grinding, at temp. in excess of 1000°F, this treatment affords an excellent stress relieving and imparts maximum toughness for longer punch life. Recognized by its dull, mottled oxide finish, this treatment may be varied in depth for special ratio piercing, heading, forming, drawing and shaving applications.

A

A-2 STEEL
This fine grain, high carbon, 5% chrome air hardened tool steel offers superior wear resistance and is recommended for a variety of commercial applications.

H

HIGH SPEED STEEL
Recommended for a greater variety of industrial uses, including many "hot work" applications, this Moly-tough, high vanadium, high speed (M-2) tool steel offers uniform hardening quality, superior wear resistance, and high impact strength.

Y

STRAIGHT GROUND
Grind lines are parallel to the axis and perpendicular to the line of potential fractures. This patented feature, exclusive with Pivot, resists wear, minimizes "pick-up" and achieves maximum strength and punchability. Available in M2 and PM.

X

Pivot's **WHIP-SLEEVE®** punches are capable of piercing metal thicknesses which exceed the diameter of the punches. A vibration absorbing, inert metal sleeve is cast at the point of the punch where failure normally occurs, thus greatly increasing punch life. When used with a bushing in the stripper it eliminates whipping or shifting and transfers side thrust to the stripper rather than imposing all the force on the working point. Available in M2 and PM.

P

PM STEEL
A unique high alloy Particle Metal Steel which provides exceptionally high wear resistance while maintaining very good toughness and strength characteristics. Due to their exceptionally high wear resistance, PM punches have also proven to be cost-effective when replacing carbide in many applications. All Pivot PM products are triple tempered for maximum strength and toughness.

WHIPSLEEVE®

FOR ADDITIONAL APPLICATION INFORMATION SEE COLOR-KEYED PUNCH SELECTION CHART 38-39.

Steel Shape

HOW TO ORDER **A** **O**

THIS SIMPLIFIED CATALOG ORDER CODE IS DESIGNED TO MAKE PUNCH, DIE BUTTON AND GUIDE BUSHING SELECTION EASIER AND MORE ACCURATE FOR YOU!

