



Heritage
INDUSTRIAL

Your source for precision ground

dowel pins

HUGE SELECTION OF SIZES, MATERIALS, & FINISHES

IMPERIAL & METRIC STYLES



Aligned with Your Expectations

Dowel pins are used as locking devices, pivots, hinges, shafts, jigs, or fixtures to align parts within machinery to achieve maximum holding power with increased shear strength to absorb lateral stress. They provide a secure joint without altering the shape or impacting the frame of the finished piece and facilitate quick disassembly/re-assembly.

NEWLY EXPANDED LINES — THOUSANDS OF DOWEL PINS TO CHOOSE FROM



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ISO 9001:2015
CERTIFIED

STANDARD DOWEL PINS

ASME B18.8.2 standard dowel pins have a radius on one end and a chamfer on the other. DIN 7 pins have a spherical radiused crown on each end. DIN 7 pins are unhardened.

Imperial Alloy



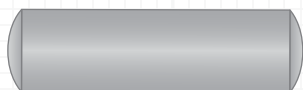
DOW = Alloy Steel, Plain*
DOWBO = Alloy Steel, Black Oxide

Imperial Stainless

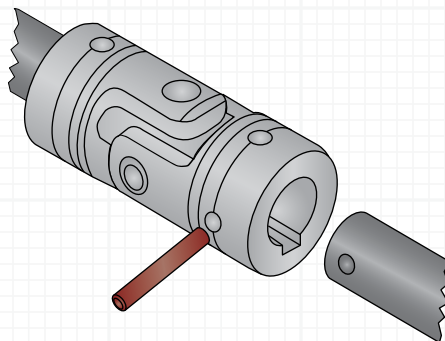


DOWS = 416 Stainless Steel, Plain
DOWS3 = 18-8 Stainless Steel, Plain
DOWS6 = 316 Stainless Steel, Plain

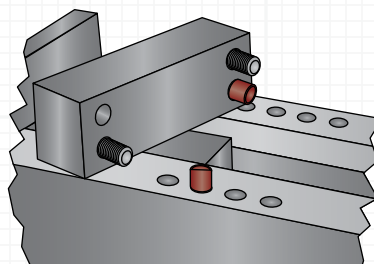
Metric



DOWM = Carbon Steel, Plain*
DOWM6 = 316 Stainless Steel, Plain
DOWMS = 300 Series Stainless Steel, Plain

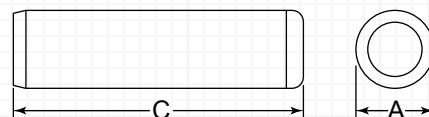


Locking device in u-joint assembly



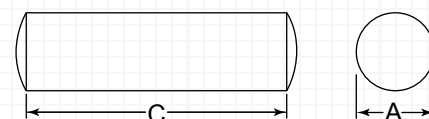
Vise positioning element

ASME B18.8.2



NOTE:
MEASURE IMPERIAL PINS
END TO END
MEASURE METRIC PINS
TANGENT POINT TO
TANGENT POINT

DIN 7



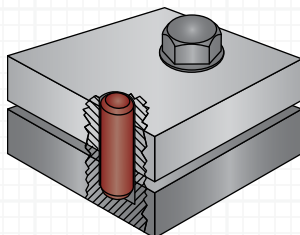
HARDENED DOWEL PINS

DIN 6325 dowel pins are hardened for heavy duty use. They have a tapered radiused crown on one end and a spherical radiused crown on the other. Available in metric sizes only.

Metric

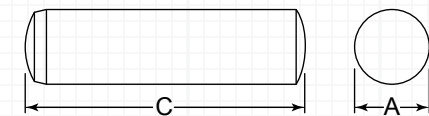


DOWMH = Alloy Steel, Plain*



As an alignment device

DIN 6325



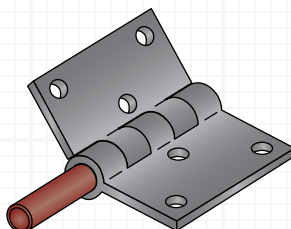
OVERSIZED DOWEL PINS

ASME B18.8.2 oversized dowel pins are typically used in aftermarket applications. Parts have a radius on one end and a chamfer on the other, and are .001" oversized to fit into worn or out-of-round holes.

Imperial

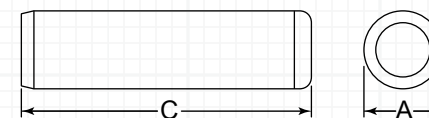


DOWO = Alloy Steel, Plain*



Ideal for hinge-type applications

ASME B18.8.2



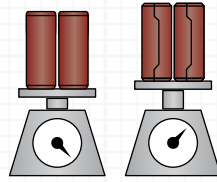
GROUND HOLLOW DOWEL PINS

Hollow pin typically used in alignment applications. Reduces the need to drill additional holes required for standard solid dowel alignment applications.

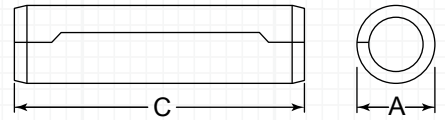
Metric



DOWGHM = Low Carbon Steel, Plain*



Ground Hollow Dowel pins weigh substantially less than solid pins



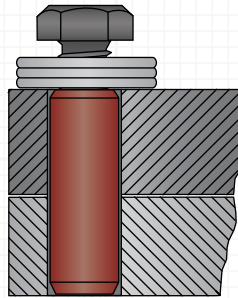
PULLOUT DOWEL PINS

Internally threaded cylindrical pin for use in blind holes. Metric pullout dowel pins are manufactured to DIN 7979D specifications. Identical to standard dowel pins with chamfers on both ends.

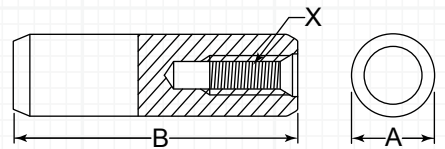
Imperial



DOWP = Alloy Steel, Plain*
DOWPS = 18-8 Stainless Steel, Plain



Threaded hole allows installation of a bolt and washers to assist in removal

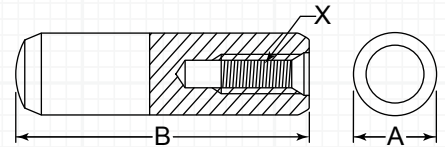


Metric



DOWPM = Alloy Steel, Plain*

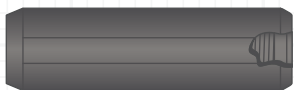
DIN 7979D



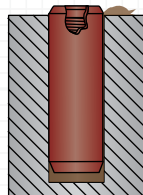
FLAT VENT DOWEL PINS

Flat vent dowel pins are identical to pullout dowel pins with the added feature of a slightly flattened side which allows gas or liquid to escape while the medium is displaced during insertion.

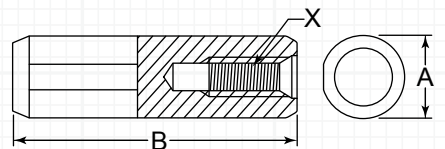
Imperial



DOWPF = Alloy Steel, Plain*



The flat vent allows media to be displaced when installed into a blind hole



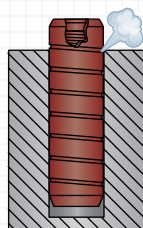
GROOVED DOWEL PINS

The internal threads assist in removal of the dowel pins from a blind hole. External grooves are cut in a spiral along the entire length which allows gas or liquid to escape during insertion while maintaining a 360° circumference contact.

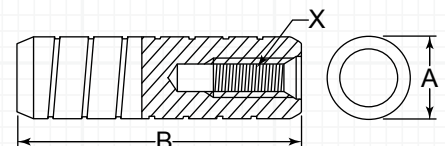
Imperial



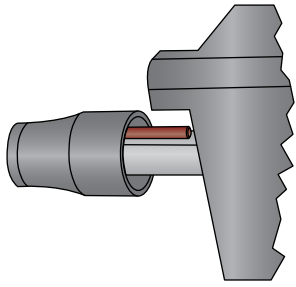
DOWPG = Alloy Steel, Plain*



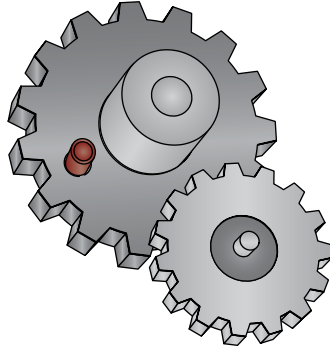
Spiral grooves allow air to escape during installation



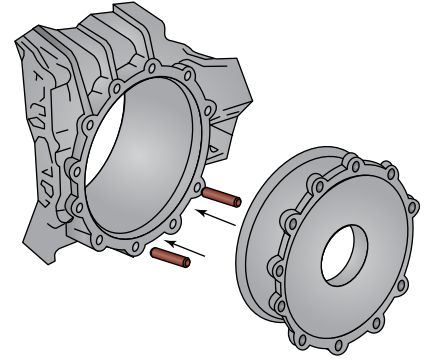
Versatile precision ground steel dowel pins aid in alignment and eliminate play in automotive, agricultural, aerospace, and other manufacturing applications.



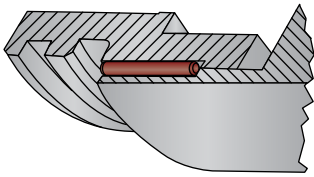
Locks head into place



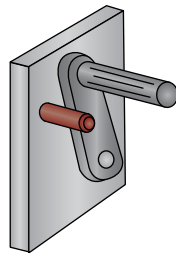
Serves as a stop in mechanical timers



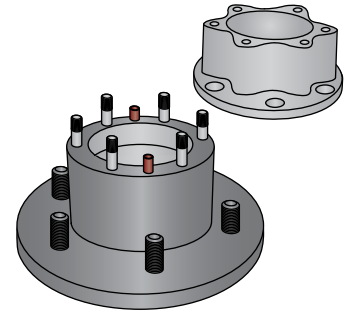
Bell housing positioning element



Transmits torque in a seal



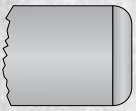
Use as a stop pin for a rotating handle



Eases alignment of hub assembly components

Design Considerations

RADIUS END



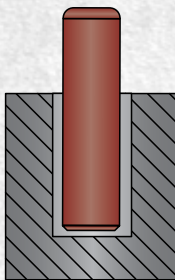
Radius end resists part deformation during installation

CHAMFER END

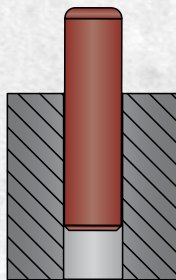


Chamfer end helps guide the pin into the hole

SLIP FIT VS. PRESS FIT

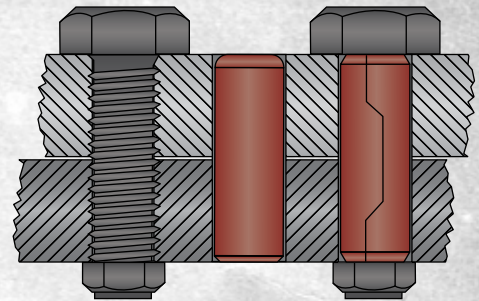


Slip fitted dowel pins have some play when installed



Press fitted dowel pins fit tightly and do not move when installed

Dowel pins with both ends radiused or chamfered eliminate possible "wrong end" assembly.



Dowel pins do not have features that hold items together; Hollow dowels allow a fastening device to pass through the same hole.



Never strike with a hammer or mallet as it may cause the pin to fail.

Use an arbor press to properly install press fit dowel pins.

