PDI BALL ARBORS & CHUCKS

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PRECISION DEVICES, INC.



TWO ROW BALL ARBOR WITH RUNOUT MASTER

BALL ARBORS

PDI Ball Arbors are used primarily to position parts for inspection of runout, concentricity, squareness and parallelism. Parts may be straight or tapered, plain or serrated, full circumference or segmented. Ball arbors are often used to solve difficult gaging problems, such as center distance gaging, true hole positioning and checking the requirements of geometric tolerancing.

BALL CHUCKS

PDI Ball Chucks employ the same exclusive ball-ring principle as the ball arbors, and are used to locate O.D.s from .156" to 16". As with our ball arbors, ball chucks are used primarily to inspect parts for runout, concentricity, squareness and parallelism.

CUSTOM BUILT

PDI Ball Arbors and Chucks are all custom designed and built to each customer's application. In addition, PDI has the capability to provide complete inspection packages, including arbors/chucks and all associated fixturing to meet your exact gaging requirements.

BALL CHUCK MOUNTED ON A SINE PLATE FOR ACC RATE ANGULAR ADJUST-MENT

APPLICATIONS



CENTERLINE AXIS ES LISHED BY TWO ROW BALL ARBOR ON DIFFERENT PARAMETERS

THE BALL-RING PRINCIPLE

The key to many of the features of PDI Arbors and Chucks lies in the circle of precision balls that contact the part. Seated in an expandable raceway, the balls firmly contact the part, establish and maintain its true axis, and still allow it to rotate freely. The workpiece I.D. or O.D. is always centered, regardless of slight variations in diameter, roundness or taper.

PDI Ball Arbors and Chucks are virtually indestructible. The precision balls are made of hardened steel and the faces that form the V-grooves are hardened, ground and lapped. Ball wear is compensated for by self-rounding. These devices will do their jobs and maintain their accuracy through many years of constant use.



ADVANTAGES

- Accurately establishes axis I.D. or O.D. up to .000050"
- Does not distort part
- Provides means of measuring runout, concentricity, squareness or parallelism
- Wide range of expansion, with no loss of accuracy
- Free rotation of part on arbor
- Unaffected by taper or out-of-round
- Will hold on interrupted surfaces
- Self-actuating
- · Easily adapted to existing gages
- · Antifriction feature contributes to long wear life





OTHER PRECISION DEVICES PRODUCTS



SURFOMETER® SURFACE ROUGHNESS AND PROFILE MEASURING SYSTEMS



PDI CHAMPION® MANDRELS AND WORK-HOLDING DEVICES



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