

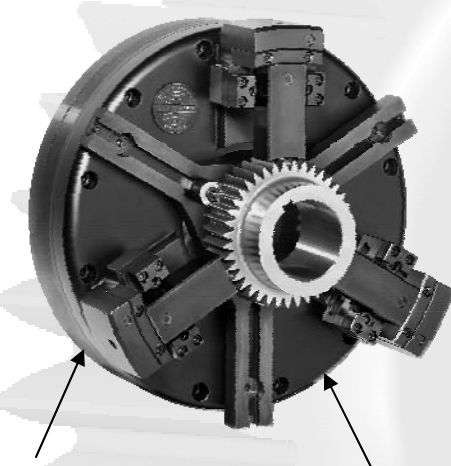
"Quick-Pitch" Diaphragm

The new *Quick-Pitch Diaphragm* by N.A. Woodworth is designed specifically to provide quick and accurate part changeovers in a simple and economical manner. Aimed primarily at gear families, the chuck also has applications in hard turning and grinding operations where repeatability, inter-changeability and roundness are a concern.

The key to the design is the simplicity of the quick-change system. A fixed length pin locates against the master jaw of the diaphragm and extends the

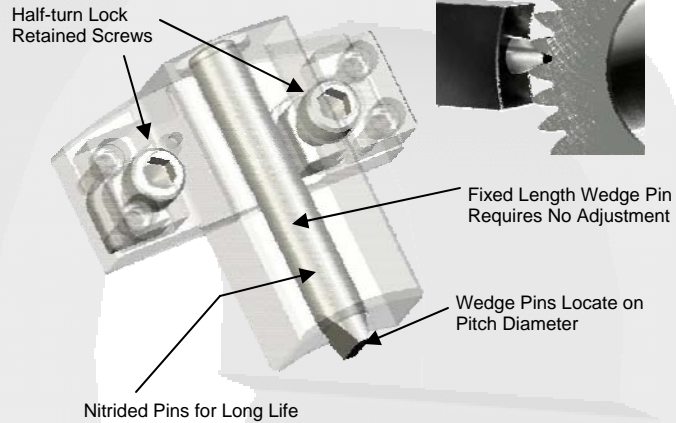
distance to the pitch diameter. The pin is housed in a jaw that orients the unit and contains the "Quick-Change" feature of a snap in place housing and retained screw system. Replacement of worn pin sets is as simple as sliding out the old and inserting the new, no adjustment is necessary.

Four models are available spanning pitch diameters from 25 mm to 350 mm with three and six jaw systems.



Sealed Design

N.A. Woodworth Original Radius Diaphragm



Chuck Sizing for Part Ranges:

Model Name	No. of Jaws	Chuck Diameter	Major Diameter Range Min./Max.
PLD - 180	3	178mm	25mm - 100mm
PLD - 250	3	250mm	100mm - 170mm
PLD - 345	3	345mm	170mm - 245mm
PLD - 450	6	450mm	245mm - 350mm

FEATURES:

- Jaw change in 60 seconds
- Accommodates any number of gear teeth
- Compliance for tooth space variation
- Optional synchronizing pins for auto-load
- Standard "pull-back" action
- Centrifugal force compensation for higher speeds
- Minimal maintenance, no sliding parts
- Light weight assembly

IDEAL FOR:

- Gear families including; Sun, Ring, Pinion and Output Gears
- Spur and Helical Gears
- Hard Turning
- Grinding Applications: Face and Boring

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