

## 4.1 . Structure and Features of Change Nut Models DCMA and DCMB

Change Nut models DCMA and DCMB have a lead angle of  $45^\circ$ , which is difficult to achieve through machining. Each model is capable of converting linear motion to rotary motion, or vice versa, at 70% efficiency. Because of the large leads, they are optimal for providing a fast feed mechanism at low-speed rotation. The multi-thread screw shafts to be combined with these change nuts are formed through cold gear rolling. The surface of the teeth is hardened to over 250 HV and mirror-finished. As a result, the shafts are highly wear resistant and achieve significantly smooth motion when used in combination with these change nuts. Models DCMA40, DCMB40 or higher are designed for use in combination with cut screw shafts.

The Miniature Change Nuts are made of oil-impregnated plastic, and have wear resistance and excel in lubricity especially in oil-less operation. In addition, since the high level of their performances can be maintained for a long period, they allow long-term maintenance-free operation.