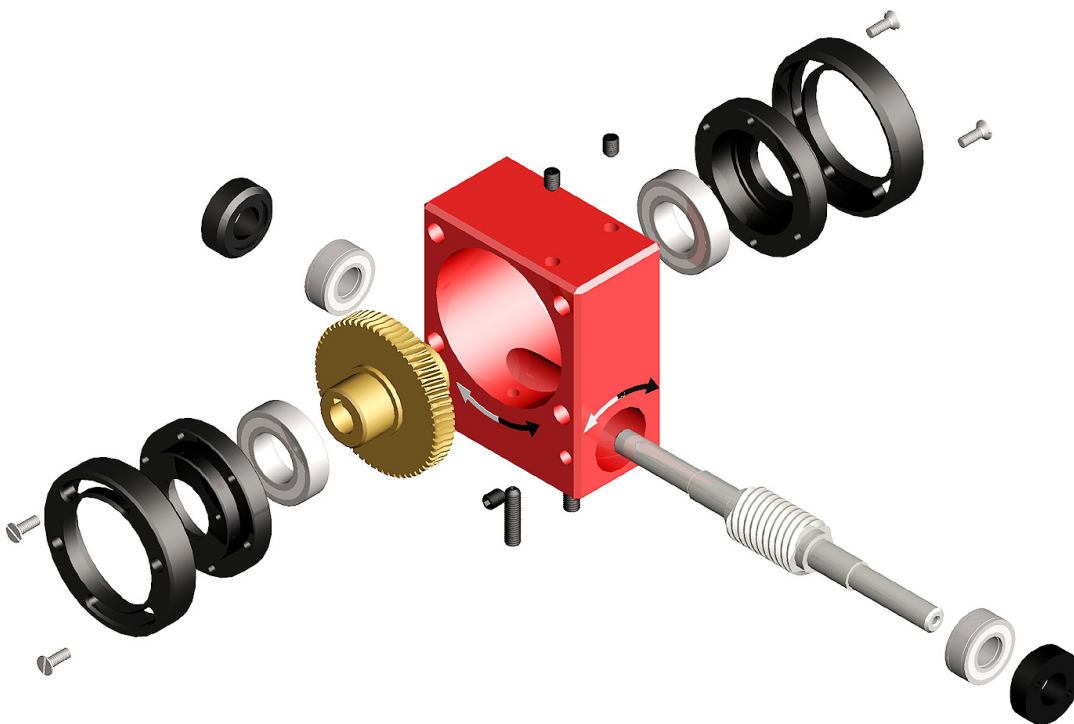


# GEARBOXES

## P & PF Type Precision Worm Gear Reducers

Low Backlash ( $\leq 8$  arc/min) All Bearing Gearboxes **5:1 - 120:1**



**Case:** AA15 red anodised aluminium (6082-T6).

**Ratios:** Standard ratios are 10:1, 12:1, 15:1, 20:1, 30:1, 60:1 and 120:1. Specials available on request.

**Worms:** One piece worm & input shafts/bore. High Carbon Steel 817M40 (40CrNiMo6).

**Wheel:** Aluminium Bronze (CA104 / AB2).

**Output Hub:** High Carbon Steel 817M40 (40CrNiMo6) except PR6 which is 303 Stainless steel.

**Screw Caps:** Mild Carbon Steel Chemically Blackened (Blackodised)

**Bearings:** Steel single row radial ball bearing with 2RS or ZZ shields. Size 60 & 70 fitted with angular contact bearings on input only.

**Lubrication:** Gearboxes are greased for life.

Refilling is only required when boxes are disassembled for refurbishment.

**Keyways and Bores:** All bores are toleranced to H7 ISO 286 as standard.

Keyways allow use of parallel DIN 6885 keys with sliding fit. Tolerances may vary due to manufacturing processes.

**Torque:** Torque figures for low backlash P & PF reducers are the same as standard models.

**Backlash:** Figures given are at output. Standard backlash  $\leq 30$  arc mins. Low backlash  $\leq 8$  arc mins. Ultra Low backlash  $\leq 4$  arc. On Ultra/Low backlash P & PF using eccentrics to control meshing, we are able to manufacture a unit that features low resistance compared to spring-loaded designs. With spring-loaded designs, torque is limited by the strength of the spring. Additionally, the use of springs increases frictional resistance and increases wear which the Ondrives method overcomes.

**Thrust & Overhung Loads:** Based on an input speed of 1000rpm taking full torque load and combined thrust and overhung load.

**Specials:** Available from Ondrives are not only an extensive range of standard design reduction units but modifications to this range are also available.

To find out more please contact the Ondrives Technical Department.