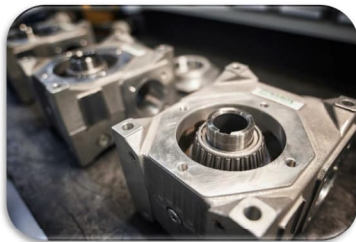


Dynabox Range



The **dual worm gear** is a series of **high-precision servo gears** for applications that require **low backlash**. This gear offers a very **small torsional backlash** and very **high torsional rigidity**.

If necessary, the “Expert” version can be **readjusted at any time during the service life** of the gearbox, thus reducing the backlash on the output shaft.

Dynabox



- ❖ 8 different sizes
- ❖ Input speeds up to 6000 rpm
- ❖ Nominal Torque:
 - ✓ Continuous service : 8Nm to 800Nm
 - ✓ Start & Stop service : 13Nm to 1,100Nm
- ❖ 3 backlash :
 - ≤ 1 arcmin : **EXPERT**
 - ≤ 5 arcmin : **MEDIUM**
 - ≤ 10 arcmin : **BASIC**
- ❖ 10 ratios
- ❖ 5 outputs shafts
- ❖ 2 mounting positions (left and right)

Dynabox XL



- ❖ 3 different sizes
- ❖ Input speeds up to 6000 rpm
- ❖ Nominal Torque:
 - ✓ Continuous service : 600Nm to 4,700Nm
 - ✓ Start & Stop service : 1,000Nm to 8,000Nm
- ❖ 2 backlash :
 - ≤ 2 arcmin : **EXPERT**
 - ≤ 5 arcmin : **MEDIUM**
- ❖ 9 ratios
- ❖ 3 outputs shafts
- ❖ 2 mounting positions (left and right)

DYNABOX : OUTPUT SHAFT CONFIGURATION



Hollow shaft with keyway



Hollow shaft with shrink disk



Dual Output shaft



Keyed Plain



Robot Flange

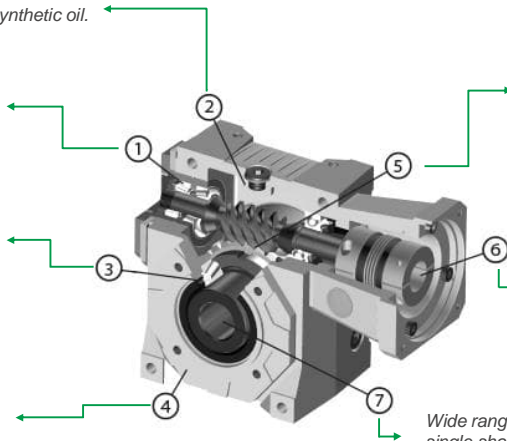
DYNABOX FEATURES

Maintenance-free, lubricated for life with high performance synthetic oil.

Tapered bearing input with constant preload over all allowable temperature ranges. High stiffness and long life.

Oversized tapered roller bearing at the output provides unmatched radial load and tilting moment capacity.

Single piece housing made of cast and heat treated aluminum magnesium alloy offering superior rigidity and low weight (Sizes 125-160-200 utilize a cast iron housing).



Optimized gear contact pattern named Dual Lead. 90% of teeth in contact resulting in excellent wear resistance and low backlash maintained throughout the life of the gearhead.

Simple servomotor mounting. Adapter plates designed to mount to any motor and a high stiffness bellows coupling to eliminate shaft misalignment.

Wide range of output options include single shaft, dual shaft, keyed hollow, shrink disc and robotic ISO flange.

DYNABOX®



DYNABOX® XL

