



# FB-40-100-2-GR



Series	Size	Ratio	Type
FB	40	100	2-GR

FB component set consists of four elements:

- Wave generator, an elliptical bearing assembly
- Flexspline, a non-rigid ring with external teeth
- Circular Spline, rigid internal gear
- Dynamic Spline, rigid internal gear

## How it works

Rotation of the Wave Generator imparts a rotating elliptical shape to the Flexspline causing progressive engagement of its external teeth with the internal teeth of the Circular Spline and the Dynamic Spline. The fixed Circular Spline has two more teeth than the Flexspline, thereby imparting relative rotation to the Flexspline at a reduction ratio corresponding to the difference in the number of teeth. With the same number of teeth, the Dynamic Spline rotates with and at the same speed as the Flexspline.

Gear Model Number	FB-40-100-2-GR
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Gear Performance Data		
Rated Torque L10	157	Nm
Limit for Average Torque	186	Nm
Limit for Repeated Peak Torque	186	Nm
Limit for Momentary Peak Torque	343	Nm

**Gear Performance Data**

**Backdriving Torque**

Nm

**Ave. Input Speed**

2,000

rpm

**Gear Backlash**

< 3

arc min

**Mass**

1.8

kg